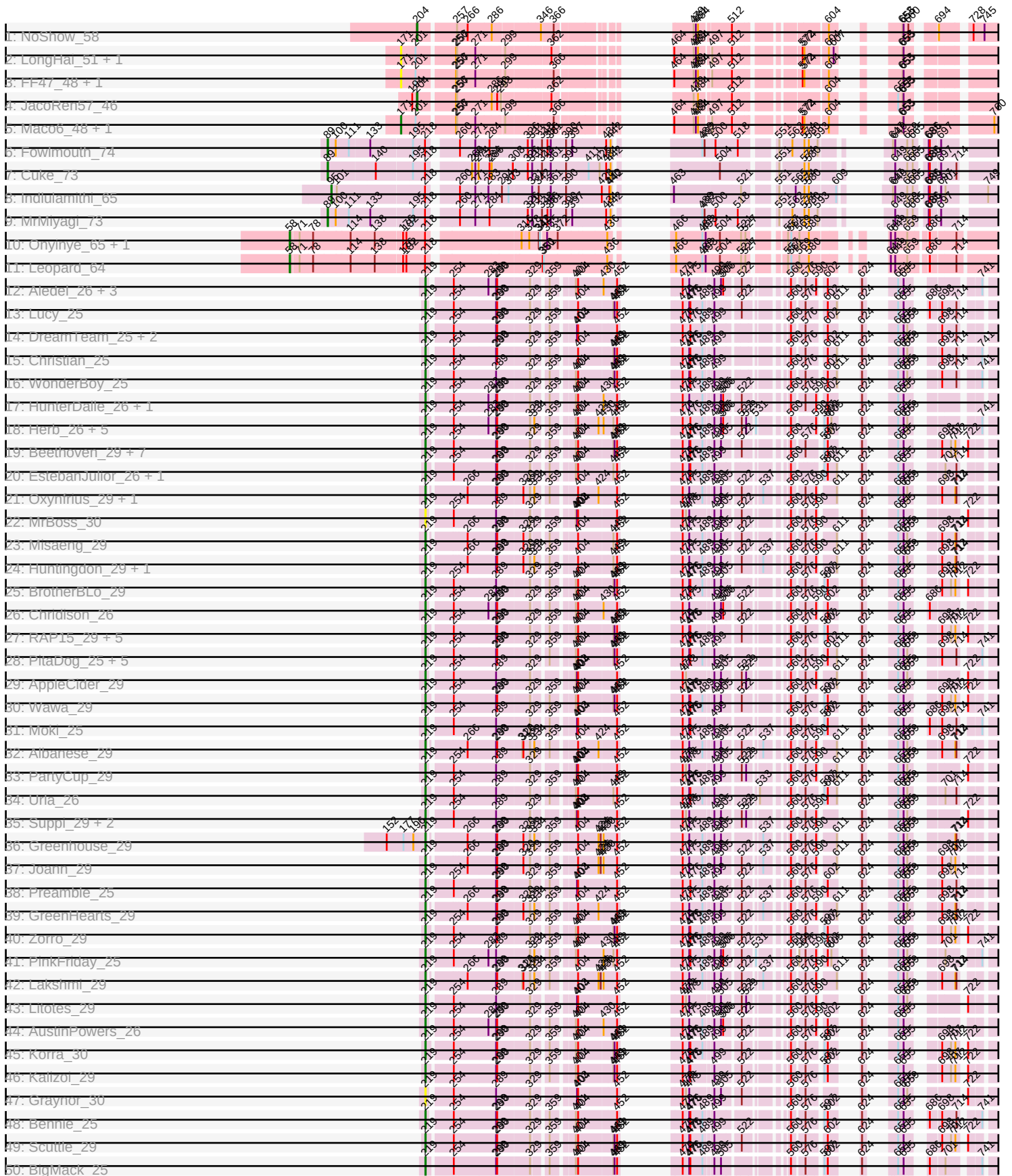
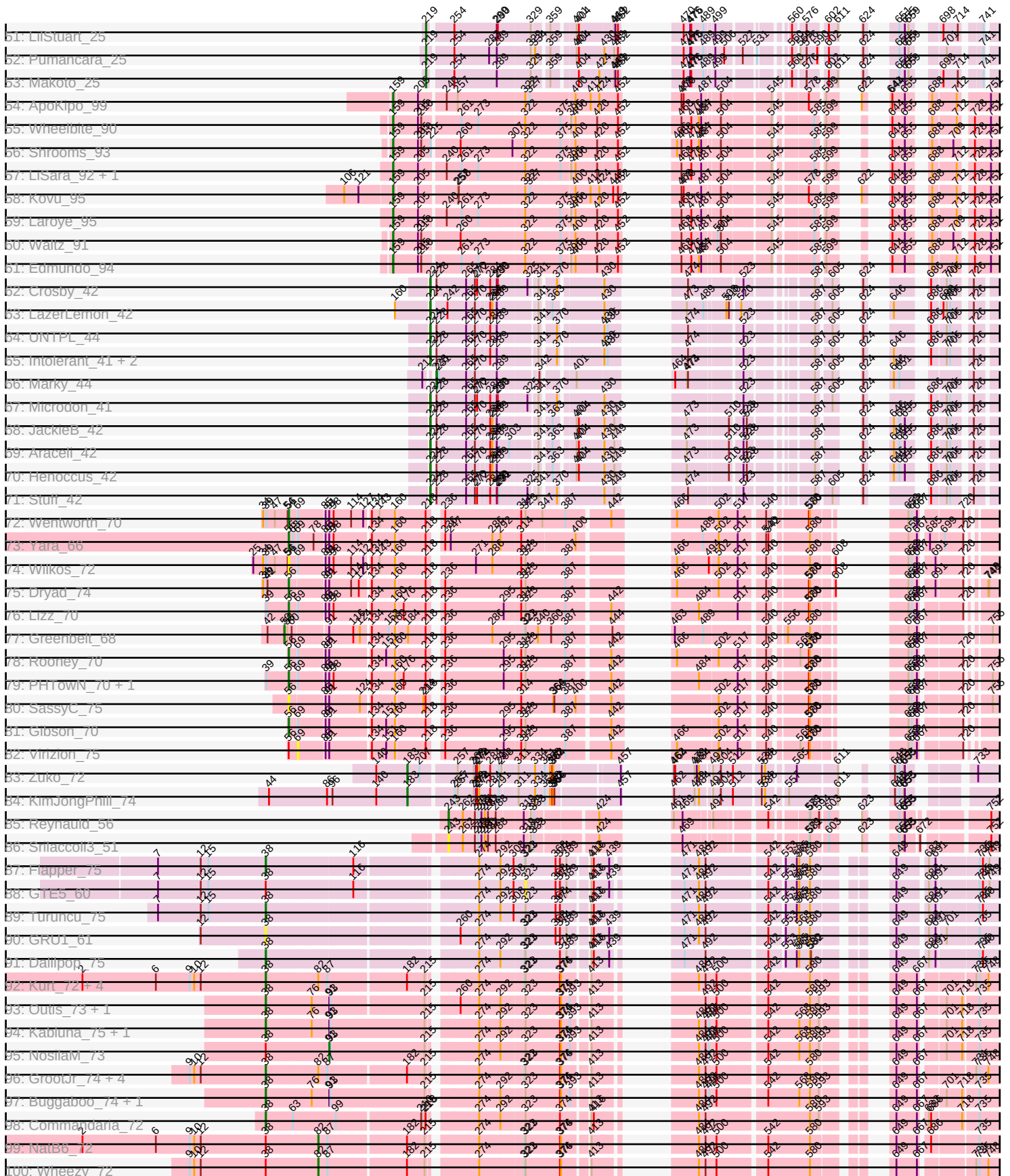


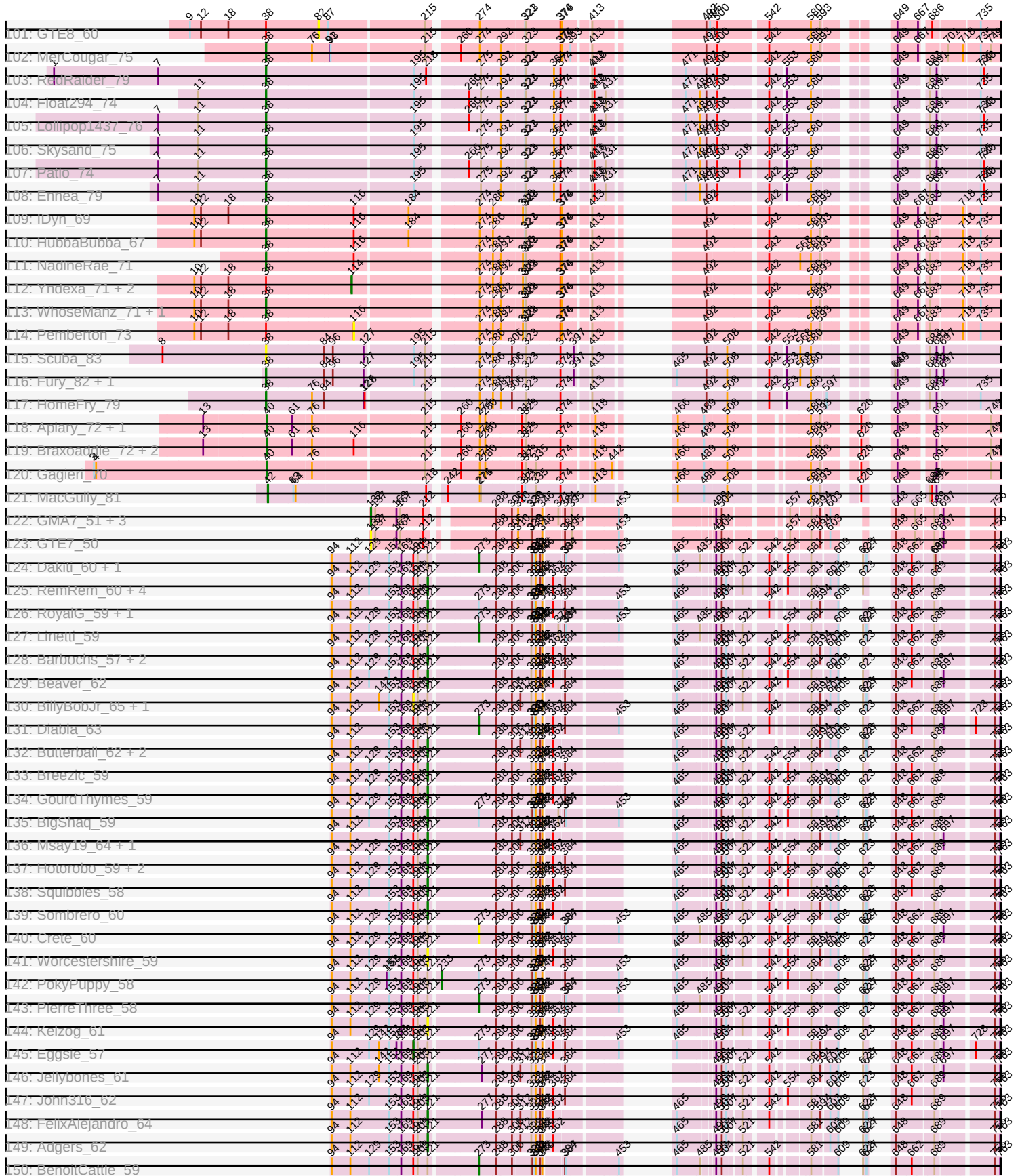
Zoomed Pham 304568



Zoomed Pham 304568



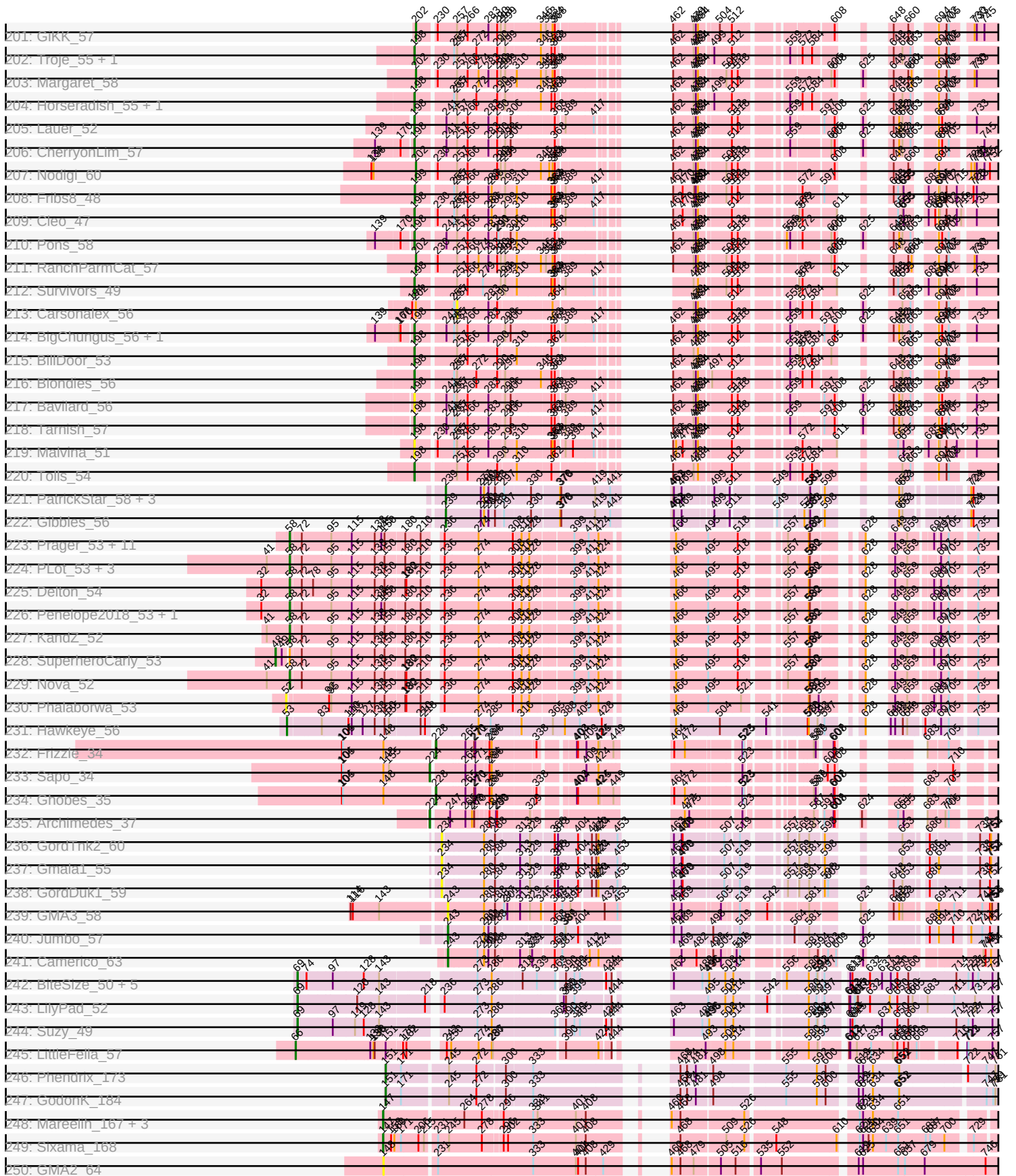
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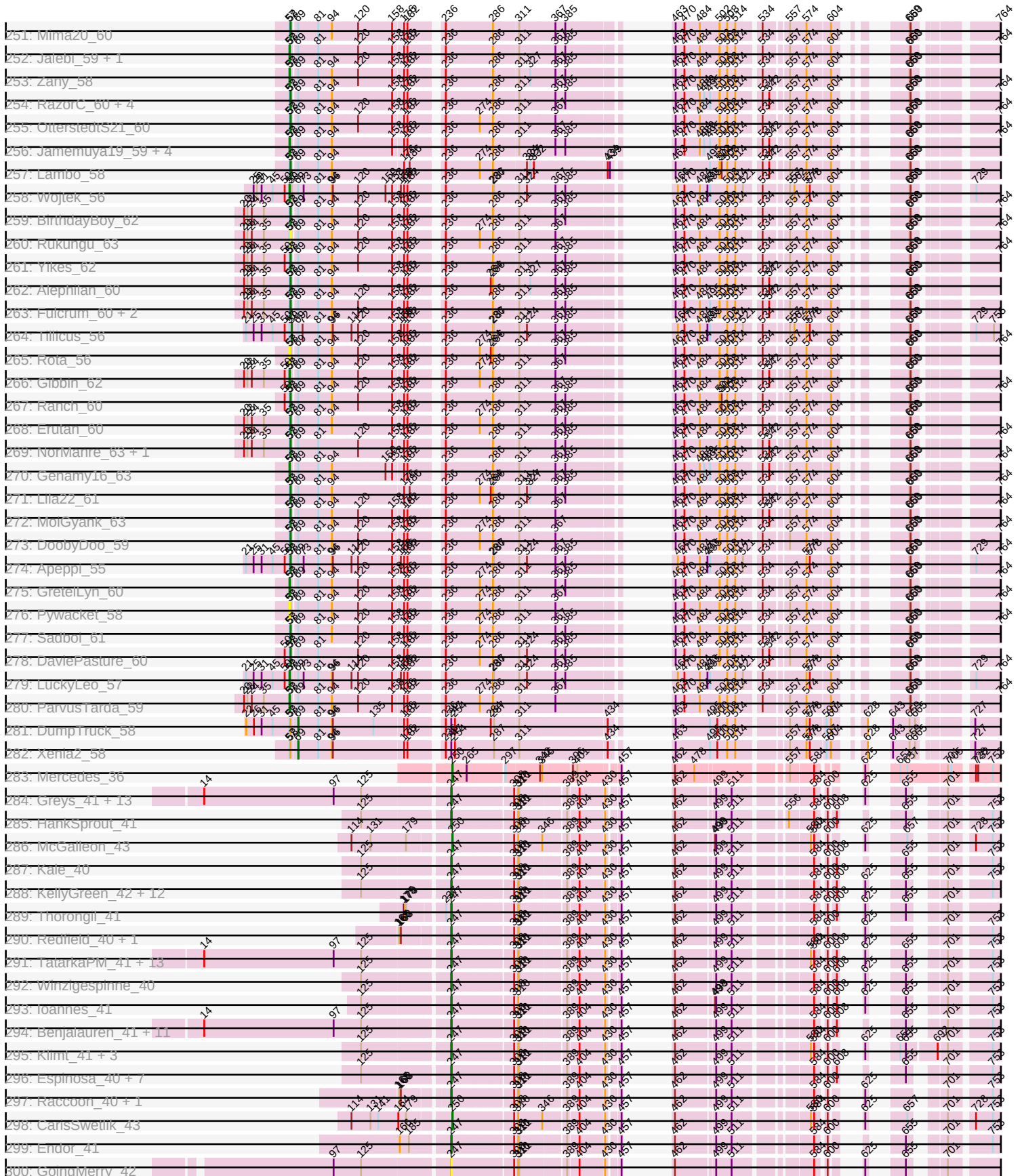
Zoomed Pham 304568

I51: Bianmat_57 + 3	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I52: Jormungandr_57 + 5	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I53: Luker_58	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I54: Damp_57 + 10	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I55: Woos_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I56: Charanelly_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I57: Kaseim_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I58: Teatealatte_58 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I59: Philon9_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I60: Teech_58	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I61: Niagara_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I62: Katyusha_57 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I63: Demosthenes_55	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I64: Hollow_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I65: ASerpRocky_55	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I66: Vitaenoi_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I67: Kvotne_56	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I68: Starburst_53 + 2	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I69: RSchmalzi_54 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I70: MunkgeeRoachy_51	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I71: Mayweather_61	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I72: RedBaron_58	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I73: Nibbles_48	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I74: Vine_59 + 2	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I75: CanesSauce_52 + 5	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I76: Onia_60	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I77: Gloobous_48 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I78: Agatha_53 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I79: Cozz_51 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I80: Amok_54	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I81: Elliot_53 + 5	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I82: ElJefes_58 + 2	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I83: Nina_53 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I84: ChickenTender_56	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I85: Balloona_55 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I86: HippoPoli_50	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I87: Yakui_55	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I88: SketchMex_53 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I89: GTE2_44	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I90: Emalyn_52	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I91: AikoCarson_54	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I92: Mavan_49 + 3	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I93: CocoaPuff_56	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I94: Hexbug_60	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I95: MIScam_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I96: MAnor_58	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I97: Button_57	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I98: Jamzy_58	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I99: KayGee_58 + 1	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756
I00: Zareel_49	94	142	194	273	288	336	395	432	453	465	484	521	557	591	603	623	648	665	689	711	756

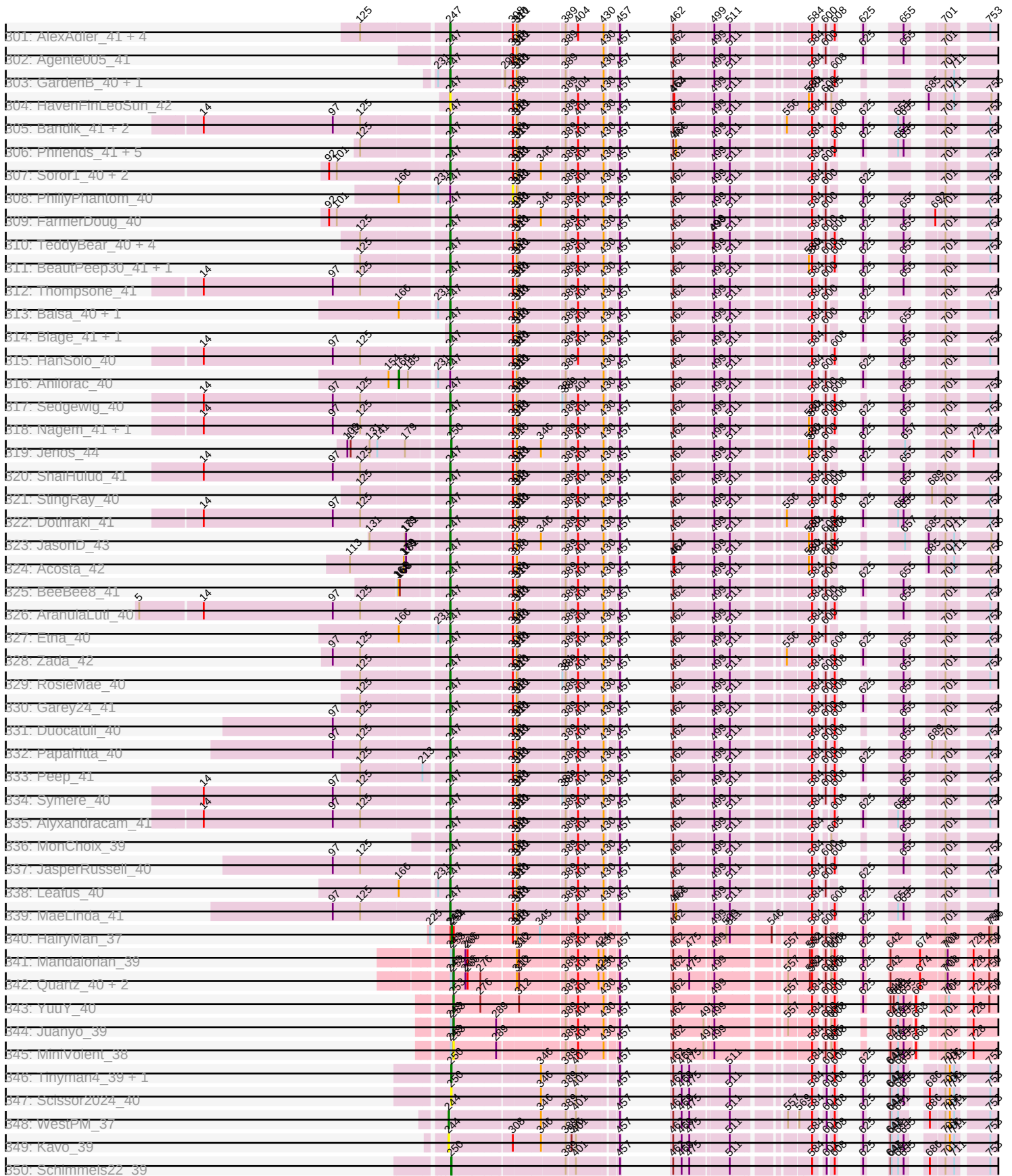
Zoomed Pham 304568



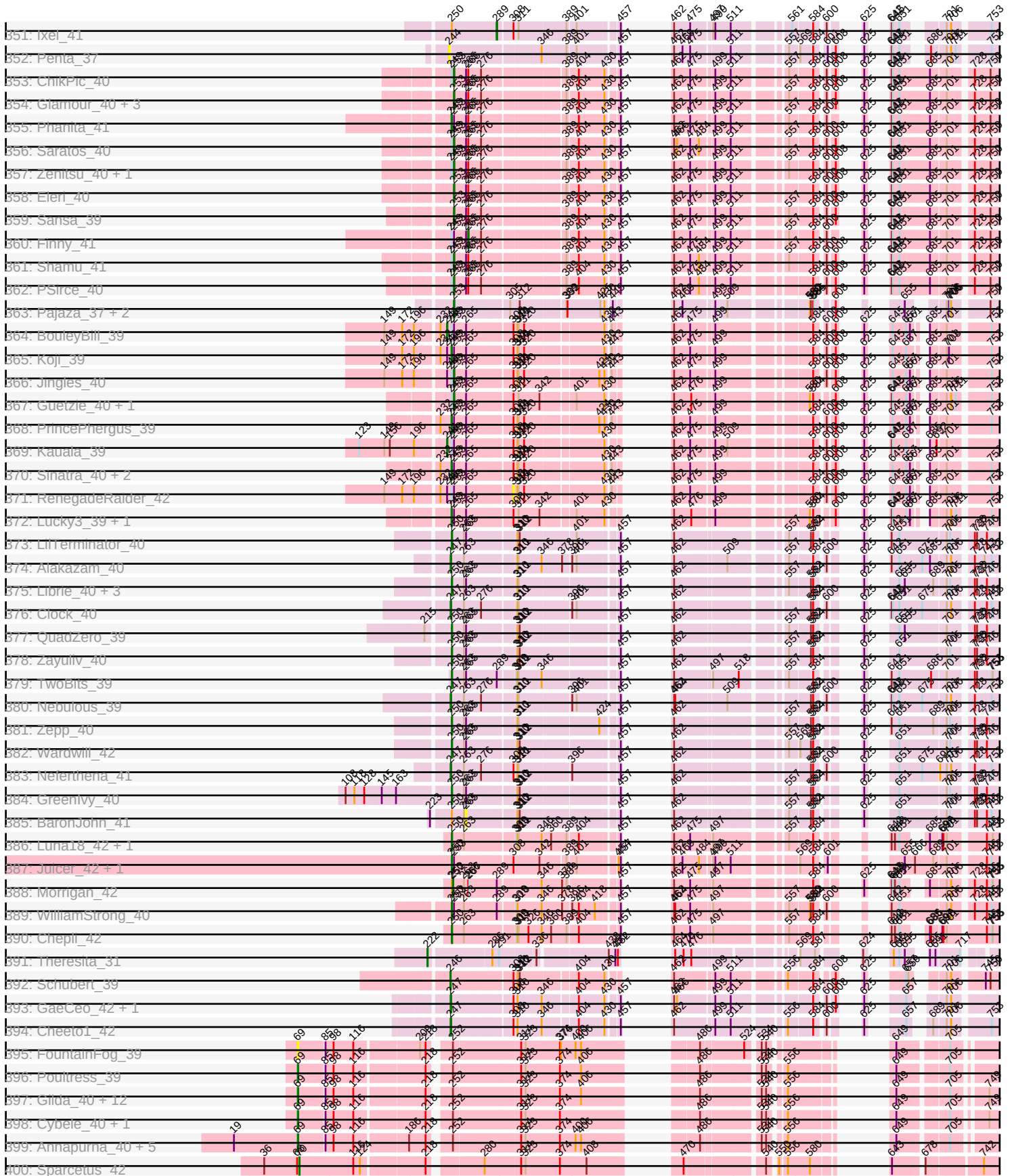
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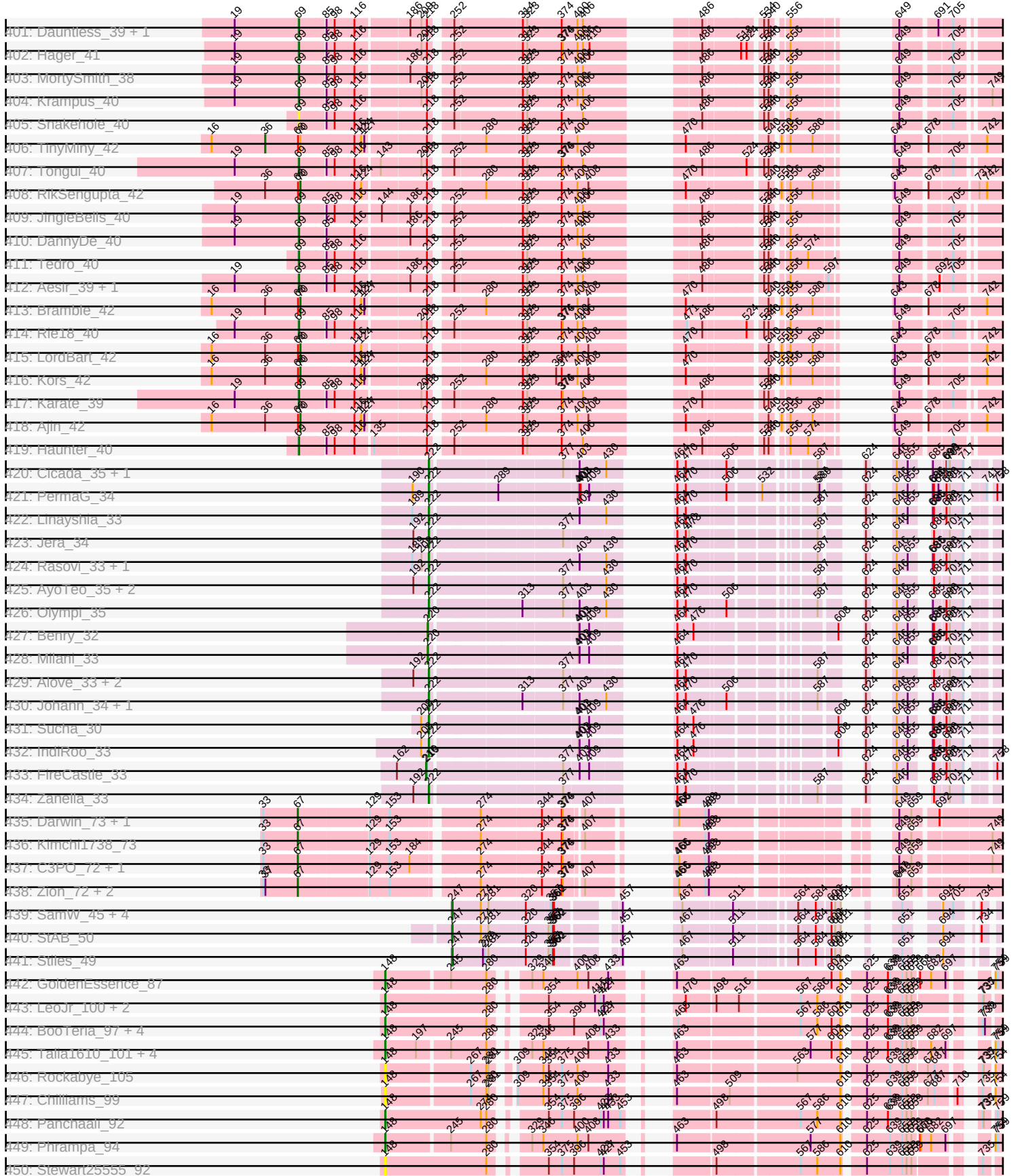
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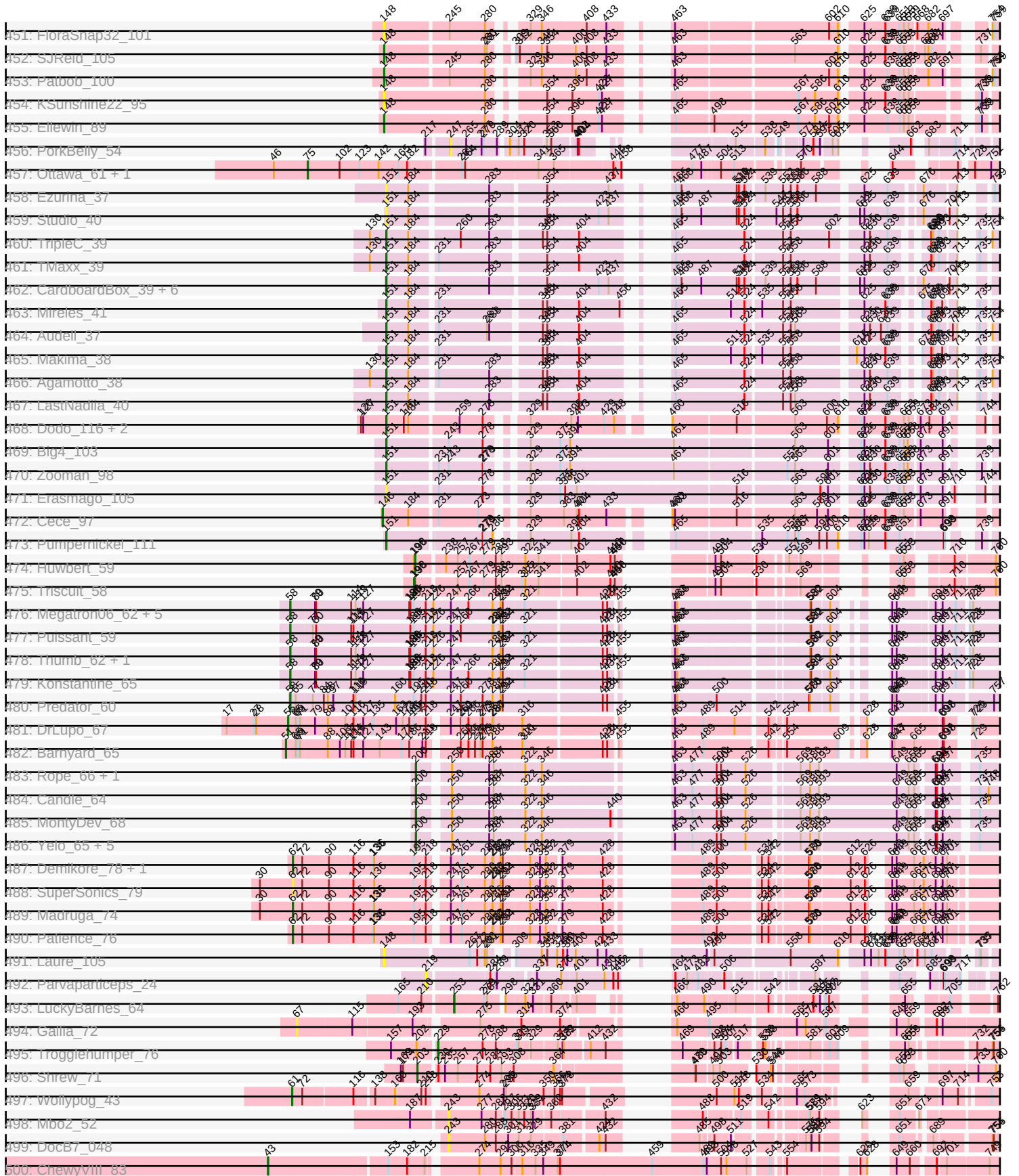
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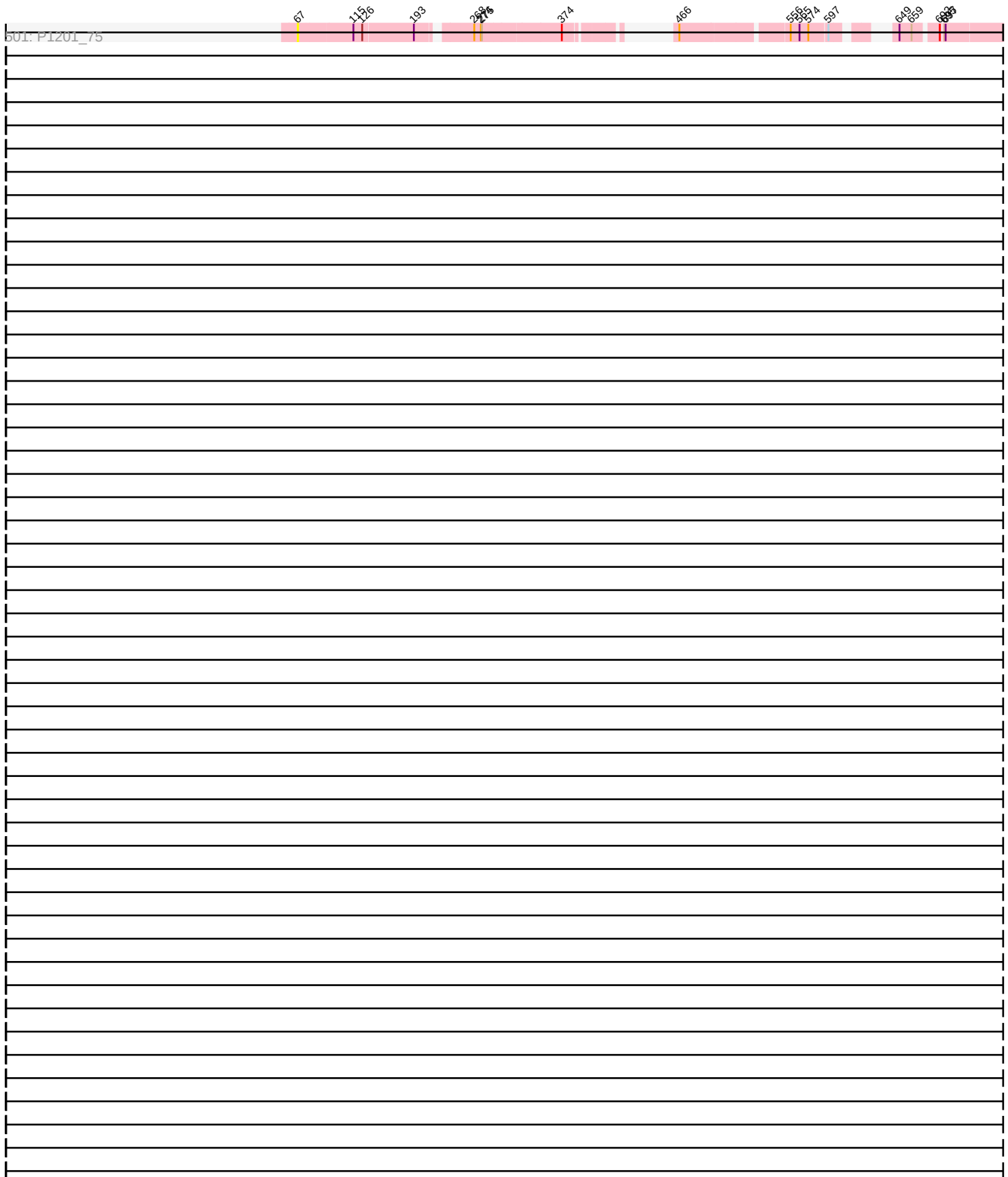
Zoomed Pham 304568



Zoomed Pham 304568



Zoomed Pham 304568



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 304568 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304568 has 834 members, 104 are drafts.

Phages represented in each track:

- Track 1 : NoShow_58
- Track 2 : LongHai_51, Salvus_51
- Track 3 : FF47_48, 8UZL_50
- Track 4 : JacoRen57_46
- Track 5 : Maco6_48, Muddy_50
- Track 6 : Fowlmouth_74
- Track 7 : Cuke_73
- Track 8 : Indlulamithi_65
- Track 9 : MrMiyagi_73
- Track 10 : Onyinye_65, Aikoy_65
- Track 11 : Leopard_64
- Track 12 : Aledel_26, Riovina_26, Eunoia_26, OMalley_26
- Track 13 : Lucy_25
- Track 14 : DreamTeam_25, Gisselle_25, Kittykat_25
- Track 15 : Christian_25
- Track 16 : WonderBoy_25
- Track 17 : HunterDalle_26, Vulture_26
- Track 18 : Herb_26, Maria1952_26, Sergei_26, Daiboju_26, KingBob_26, Temper16_26
- Track 19 : Beethoven_29, Vallejo_29, Glenn_29, TattModd_29, Rozby_29, Fluke_29, Riverdale_29, Carpal_29
- Track 20 : EstebanJulior_26, MamaPearl_26
- Track 21 : Oxynfrius_29, Nubia_29
- Track 22 : MrBoss_30
- Track 23 : Misaeng_29
- Track 24 : Huntingdon_29, RcigaStruga_29
- Track 25 : BrotherBLo_29
- Track 26 : Chridison_26
- Track 27 : RAP15_29, Cholula_29, MeganNoll_29, Potatoes_29, Jumboset_29, Savage2526_29
- Track 28 : PitaDog_25, Bodacious_25, CristinaYang_25, ChewChew_25, Nancia_25, DrRobert_25
- Track 29 : AppleCider_29
- Track 30 : Wawa_29
- Track 31 : Moki_25
- Track 32 : Albanese_29
- Track 33 : PartyCup_29

- Track 34 : Urla_26
- Track 35 : Suppi_29, Canowicakte_29, Wayne_29
- Track 36 : Greenhouse_29
- Track 37 : Joann_29
- Track 38 : Preamble_25
- Track 39 : GreenHearts_29
- Track 40 : Zorro_29
- Track 41 : PinkFriday_25
- Track 42 : Lakshmi_29
- Track 43 : Litotes_29
- Track 44 : AustinPowers_26
- Track 45 : Korra_30
- Track 46 : Kalizoi_29
- Track 47 : Graynor_30
- Track 48 : Bennie_25
- Track 49 : Scuttle_29
- Track 50 : BigMack_25
- Track 51 : LilStuart_25
- Track 52 : Pumancara_25
- Track 53 : Makoto_25
- Track 54 : ApoKipo_99
- Track 55 : Wheelbite_90
- Track 56 : Shrooms_93
- Track 57 : LiSara_92, Salgado_95
- Track 58 : Kovu_95
- Track 59 : Laroye_95
- Track 60 : Waltz_91
- Track 61 : Edmundo_94
- Track 62 : Crosby_42
- Track 63 : LazerLemon_42
- Track 64 : UNTPL_44
- Track 65 : Intolerant_41, Shynx_42, Bogota_43
- Track 66 : Marky_44
- Track 67 : Microdon_41
- Track 68 : JackieB_42
- Track 69 : Araceli_42
- Track 70 : Henoccus_42
- Track 71 : Stuff_42
- Track 72 : Wentworth_70
- Track 73 : Yara_66
- Track 74 : Wilkos_72
- Track 75 : Dryad_74
- Track 76 : Lizz_70
- Track 77 : Greenbelt_68
- Track 78 : Rooney_70
- Track 79 : PHTown_70, ShakeNBake_70
- Track 80 : SassyC_75
- Track 81 : Gibson_70
- Track 82 : Virizion_75
- Track 83 : Zuko_72
- Track 84 : KimJongPhill_74
- Track 85 : Reynauld_56
- Track 86 : Srilaccoli3_51

- Track 87 : Flapper_75
- Track 88 : GTE5_60
- Track 89 : Turuncu_75
- Track 90 : GRU1_61
- Track 91 : Dalilpop_75
- Track 92 : Kurt_72, Jifall16_71, KidneyBean_72, Phomeo_71, Emianna_72
- Track 93 : Outis_73, StarStruck_73
- Track 94 : Kabluna_75, Bonum_76
- Track 95 : NosilaM_73
- Track 96 : GrootJr_74, Tracker_72, Arti_71, NovumRegina_72, Foxboro_72
- Track 97 : Buggaboo_74, SuperSulley_74
- Track 98 : Commandaria_72
- Track 99 : NatB6_72
- Track 100 : Wheezy_72
- Track 101 : GTE8_60
- Track 102 : MerCougar_75
- Track 103 : RedRaider_79
- Track 104 : Float294_74
- Track 105 : Lollipop1437_76
- Track 106 : Skysand_75
- Track 107 : Patio_74
- Track 108 : Ennea_79
- Track 109 : IDyn_69
- Track 110 : HubbaBubba_67
- Track 111 : NadineRae_71
- Track 112 : Yndexa_71, Sukkupi_71, BiPauneto_74
- Track 113 : WhoseManz_71, Marietta_72
- Track 114 : Pemberton_73
- Track 115 : Scuba_83
- Track 116 : Fury_82, Pleakley_82
- Track 117 : HomeFry_79
- Track 118 : Apiary_72, Polyyuki_72
- Track 119 : Braxoaddie_72, Maselop_72, CoffeeBean_72
- Track 120 : Gagieri_70
- Track 121 : MacGully_81
- Track 122 : GMA7_51, Amore2_62, Austin_61, HayZem_62
- Track 123 : GTE7_50
- Track 124 : Dakiti_60, Chelms_59
- Track 125 : RemRem_60, Ekhein_59, Exiguo_58, Flakey_58, Sam12_58
- Track 126 : RoyalG_59, SteveFrench_58
- Track 127 : Linetti_59
- Track 128 : Barbochs_57, CathyBurgh_59, Lizzo_59
- Track 129 : Beaver_62
- Track 130 : BillyBobJr_65, CinnamonToast_65
- Track 131 : Diabla_63
- Track 132 : Butterball_62, Boneham_63, BirksAndSocks_64
- Track 133 : Breezic_59
- Track 134 : GourdThymes_59
- Track 135 : BigShaq_59
- Track 136 : Msay19_64, Poland_64
- Track 137 : Hotorobo_59, Monty_58, Gorko_58
- Track 138 : Squibbles_58
- Track 139 : Sombrero_60

- Track 140 : Crete_60
- Track 141 : Worcestershire_59
- Track 142 : PokyPuppy_58
- Track 143 : PierreThree_58
- Track 144 : Kelzog_61
- Track 145 : Eggsie_57
- Track 146 : Jellybones_61
- Track 147 : John316_62
- Track 148 : FelixAlejandro_64
- Track 149 : Adgers_62
- Track 150 : BenoitCattle_59
- Track 151 : Bianmat_57, Lidong_57, Shelley_57, Jams_57
- Track 152 : Jormungandr_57, Guillaume_57, MrWormie_57, Lahirium_57, Berries_57, Nimi13_57
- Track 153 : Luker_58
- Track 154 : Damp_57, Sticker17_57, Neoevie_57, Hello_57, GalacticEye_57, Minos_58, Teal_57, Anamika_57, Hail2Pitt_56, Newt_58, Harambe_57
- Track 155 : Woes_57
- Track 156 : Charianelly_57
- Track 157 : Kaseim_57
- Track 158 : Teatealatte_58, Tredge_57
- Track 159 : Philon9_57
- Track 160 : Teech_58
- Track 161 : Niagara_57
- Track 162 : Katyusha_57, Benczkowski14_57
- Track 163 : Demosthenes_55
- Track 164 : Hollow_57
- Track 165 : ASerpRocky_55
- Track 166 : Vitaenoi_57
- Track 167 : Kvothe_56
- Track 168 : Starburst_53, Typhonmarchy_52, RADical_54
- Track 169 : RSchmailzl_54, Bubble_51
- Track 170 : MunkgeeRoachy_51
- Track 171 : Mayweather_61
- Track 172 : RedBaron_58
- Track 173 : Nibbles_48
- Track 174 : Vine_59, Yucky_59, PotPie_56
- Track 175 : CanesSauce_52, AndPeggy_50, ChocoMunchkin_52, Yarn_50, CaramelLatte_52, SteamedHams_54
- Track 176 : Orla_60
- Track 177 : Gibbous_48, Dre3_48
- Track 178 : Agatha_53, Quasar_53
- Track 179 : Cozz_51, Socotra_54
- Track 180 : Amok_54
- Track 181 : Elliott_53, PsychoKiller_52, GoldHunter_54, Burnsey_53, Sopespian_50, Axym_52
- Track 182 : ElJefes_58, McDazzle_58, SheckWes_60
- Track 183 : Nina_53, SweatNTears_55
- Track 184 : ChickenTender_56
- Track 185 : Balloona_55, SummitAcademy_56
- Track 186 : HippoPololi_50
- Track 187 : Yakult_55
- Track 188 : SketchMex_53, Biskit_55

- Track 189 : GTE2_44
- Track 190 : Emalyn_52
- Track 191 : AikoCarson_54
- Track 192 : MaVan_49, Wallaby_51, Wolfwood_49, Azira_49
- Track 193 : CocoaPuff_56
- Track 194 : Hexbug_60
- Track 195 : MScarn_57
- Track 196 : MAnor_58
- Track 197 : Button_57
- Track 198 : Jamzy_58
- Track 199 : KayGee_58, Elinal_60
- Track 200 : Zareef_49
- Track 201 : GiKK_57
- Track 202 : Troje_55, Buttrmlkdreams_55
- Track 203 : Margaret_58
- Track 204 : Horseradish_55, Yummy_55
- Track 205 : Lauer_52
- Track 206 : CherryonLim_57
- Track 207 : Nodigi_60
- Track 208 : Fribs8_48
- Track 209 : Cleo_47
- Track 210 : Pons_58
- Track 211 : RanchParmCat_57
- Track 212 : Survivors_49
- Track 213 : Carsonalex_56
- Track 214 : BigChungus_56, Feastonyeet_56
- Track 215 : BillDoor_53
- Track 216 : Blondies_56
- Track 217 : Bavilard_56
- Track 218 : Tarnish_57
- Track 219 : Malvina_51
- Track 220 : Tolls_54
- Track 221 : PatrickStar_58, Orchid_57, Kampe_58, RobinSparkles_61
- Track 222 : Gibbles_56
- Track 223 : Prager_53, Giuseppe_53, Adjutor_52, Chill_55, PBI1_50, WaldoWhy_55, Butterscotch_52, BigMama_51, Visconti_54, Troll4_53, Thoth_53, Mopey_54
- Track 224 : PLOt_53, SirHarley_54, Erk16_52, Gumball_52
- Track 225 : Delton_54
- Track 226 : Penelope2018_53, Helpful_56
- Track 227 : KandZ_52
- Track 228 : SuperheroCarly_53
- Track 229 : Nova_52
- Track 230 : Phalaborwa_53
- Track 231 : Hawkeye_56
- Track 232 : Frizzle_34
- Track 233 : Sapo_34
- Track 234 : Ghobes_35
- Track 235 : Archimedes_37
- Track 236 : GordTnk2_60
- Track 237 : Gmala1_55
- Track 238 : GordDuk1_59
- Track 239 : GMA3_58

- Track 240 : Jumbo_57
- Track 241 : Camerico_63
- Track 242 : BiteSize_50, Terapin_51, Madi_50, Sienna_50, Beyoncage_50, Djokovic_50
- Track 243 : LilyPad_52
- Track 244 : Suzy_49
- Track 245 : LittleFella_57
- Track 246 : Phendrix_173
- Track 247 : GodonK_184
- Track 248 : Mareelih_167, BlueNGold_166, Forza_170, Boopy_169
- Track 249 : Sixama_168
- Track 250 : GMA2_64
- Track 251 : Mima20_60
- Track 252 : Jalebi_59, Sampudon_60
- Track 253 : Zany_58
- Track 254 : RazorC_60, Astralis_60, Rumi_61, Riduram_59, Charminar_59
- Track 255 : OtterstedtS21_60
- Track 256 : Jamemuya19_59, Alyssamiracle_63, Avian_59, NovaSharks_62, Stormer_61
- Track 257 : Lambo_58
- Track 258 : Wojtek_56
- Track 259 : BirthdayBoy_62
- Track 260 : Rukungu_63
- Track 261 : Yikes_62
- Track 262 : Alephilan_60
- Track 263 : Fulcrum_60, LavAbarElk_60, GOATification_60
- Track 264 : Tillicus_56
- Track 265 : Rota_56
- Track 266 : Gibbin_62
- Track 267 : Ranch_60
- Track 268 : Erutan_60
- Track 269 : NorManre_63, Patos_63
- Track 270 : Genamy16_63
- Track 271 : Lila22_61
- Track 272 : MoiGyank_63
- Track 273 : DoobyDoo_59
- Track 274 : Apeppi_55
- Track 275 : GretelLyn_60
- Track 276 : Pywacket_58
- Track 277 : Sadboi_61
- Track 278 : DaviePasture_60
- Track 279 : LuckyLeo_57
- Track 280 : ParvusTarda_59
- Track 281 : DumpTruck_58
- Track 282 : Xenia2_58
- Track 283 : Mercedes_36
- Track 284 : Greys_41, Oxtober96_42, Knox_41, Lovelyunicorn_41, Vispistious_41, Convict_41, AxiPup_41, Velene_41, PuppyEggo_41, Strathdee_41, WildNOut_41, Teagan_41, Den3_41, BonesMcCoy_41
- Track 285 : HankSprout_41
- Track 286 : McGalleon_43
- Track 287 : Kale_40

- Track 288 : KellyGreen_42, Bonino_40, Baines_40, Dave_41, Calix_40, Etta_40, Erla_40, Renzie_41, Superfresh_41, Raptor_41, Antoinette_41, Gelo_40, Ludgate_41
- Track 289 : Thorongil_41
- Track 290 : Redfield_40, Schnapsidee_40
- Track 291 : TatarkaPM_41, Pherferi_41, Inventa_41, ParleG_41, PhredFlintston_41, NickSell_41, Martin_42, Kurt1_41, Rapheph_41, MillyPhilly_41, TinSulphur_42, Phiderman_41, MrWorldwide_41, Shee_41
- Track 292 : Winzigespinne_40
- Track 293 : Ioannes_41
- Track 294 : Benjalauren_41, HungryHenry_40, Chako_40, CoraRita_42, Rog141_40, Clancy_40, Gargoyle_41, KannH_40, StirfryIV_40, Ilzat_40, Jerbirus_42, Gubbabump_40
- Track 295 : Klimt_41, Chamuel_40, SonOfLevi_41, Pocket_40
- Track 296 : Espinosa_40, Exploradora_40, Christoph_40, ManRay_40, JeriBeth_40, Tenda_40, Aubergine_40, Kouch_41
- Track 297 : Raccoon_40, Hamlet_40
- Track 298 : CarisSwetlik_43
- Track 299 : Endor_41
- Track 300 : GoingMerry_42
- Track 301 : AlexAdler_41, Janus167_40, Robinson_41, Figueroism_41, Riyhil_41
- Track 302 : Agente005_41
- Track 303 : GardenB_40, GoneGirl_41
- Track 304 : HavenFinLeoSun_42
- Track 305 : Bandik_41, Byron23_42, Stanktossa_41
- Track 306 : Phriends_41, SoilGremlin_42, SolidSnake_43, Delphidian_41, OldNelly_42, Merida02_43
- Track 307 : Soror1_40, Stormbreaker8_40, KingJulien_40
- Track 308 : PhillyPhantom_40
- Track 309 : FarmerDoug_40
- Track 310 : TeddyBear_40, Gershwin_40, Asta_40, Nattles_40, Oats_40
- Track 311 : BeautPeep30_41, Phireproof_41
- Track 312 : Thompsone_41
- Track 313 : Balsa_40, Peppino_40
- Track 314 : Blage_41, BigRedClifford_41
- Track 315 : HanSolo_40
- Track 316 : Anilorac_40
- Track 317 : Sedgewig_40
- Track 318 : Nagem_41, SJay_41
- Track 319 : Jenos_44
- Track 320 : ShaiHulud_41
- Track 321 : StingRay_40
- Track 322 : Dothraki_41
- Track 323 : JasonD_43
- Track 324 : Acosta_42
- Track 325 : BeeBee8_41
- Track 326 : AranulaLuti_40
- Track 327 : Etna_40
- Track 328 : Zada_42
- Track 329 : RosieMae_40
- Track 330 : Garey24_41
- Track 331 : Duocatuli_40
- Track 332 : Papafritta_40
- Track 333 : Peep_41

- Track 334 : Symere_40
- Track 335 : Alyxandracam_41
- Track 336 : MonChoix_39
- Track 337 : JasperRussell_40
- Track 338 : Leafus_40
- Track 339 : MaeLinda_41
- Track 340 : HairyMan_37
- Track 341 : Mandalorian_39
- Track 342 : Quartz_40, Carostasia_39, Nucci_39
- Track 343 : YuuY_40
- Track 344 : Juanyo_39
- Track 345 : MiniVolent_38
- Track 346 : Tinyman4_39, HerculesXL_40
- Track 347 : Scissor2024_40
- Track 348 : WestPM_37
- Track 349 : Kavo_39
- Track 350 : Schimmels22_39
- Track 351 : Ixel_41
- Track 352 : Penta_37
- Track 353 : ChikPic_40
- Track 354 : Glamour_40, Xebius_40, Andromedas_40, ColaCorta_40
- Track 355 : Phanita_41
- Track 356 : Saratos_40
- Track 357 : Zenitsu_40, MCubed_40
- Track 358 : Eleri_40
- Track 359 : Sansa_39
- Track 360 : Finny_41
- Track 361 : Shamu_41
- Track 362 : PSirce_40
- Track 363 : Pajaza_37, Casey_37, Pikmin_37
- Track 364 : BouleyBill_39
- Track 365 : Koji_39
- Track 366 : Jingles_40
- Track 367 : Guetzie_40, SirVictor_40
- Track 368 : PrincePhergus_39
- Track 369 : Kauala_39
- Track 370 : Sinatra_40, Bustleton_39, Pherbot_39
- Track 371 : RenegadeRaider_42
- Track 372 : Lucky3_39, Golden_39
- Track 373 : LilTerminator_40
- Track 374 : Alakazam_40
- Track 375 : Librie_40, CaptainRex_40, Hasitha_40, Fulton_40
- Track 376 : Clock_40
- Track 377 : QuadZero_39
- Track 378 : Zayuliv_40
- Track 379 : TwoBits_39
- Track 380 : Nebulous_39
- Track 381 : Zepp_40
- Track 382 : Wardwill_42
- Track 383 : Neferthena_41
- Track 384 : GreenIvy_40
- Track 385 : BaronJohn_41
- Track 386 : Luna18_42, KatChan_42

- Track 387 : Juicer_42, Jemerald_42
- Track 388 : Morrigan_42
- Track 389 : WilliamStrong_40
- Track 390 : Chepli_42
- Track 391 : Theresita_31
- Track 392 : Schubert_39
- Track 393 : GaeCeo_42, ChickenKing_40
- Track 394 : Cheeto1_42
- Track 395 : FountainFog_39
- Track 396 : Poultruss_39
- Track 397 : Gilda_40, OhDear_40, OverHedge_40, Anakin_40, AnnaSerena_40, Pharpay_40, Potty_40, Artiphact_40, Rachella_40, CoolCookie_40, NarutoRun_40, PhunaPhoke_40, Kate_41
- Track 398 : Cybele_40, Neptune_40
- Track 399 : Annapurna_40, Crestdrop_40, Hiddenleaf_40, Chivey_40, FreddieHg_40, SilentWarrior_40
- Track 400 : Sparcetus_42
- Track 401 : Dauntless_39, Erudite_39
- Track 402 : Hager_41
- Track 403 : MortySmith_38
- Track 404 : Krampus_40
- Track 405 : Snakehole_40
- Track 406 : TinyMiny_42
- Track 407 : Tongui_40
- Track 408 : RikSengupta_42
- Track 409 : JingleBells_40
- Track 410 : DannyDe_40
- Track 411 : Tedro_40
- Track 412 : Aesir_39, JDawG_39
- Track 413 : Bramble_42
- Track 414 : Rie18_40
- Track 415 : LordBart_42
- Track 416 : Kors_42
- Track 417 : Karate_39
- Track 418 : Ajin_42
- Track 419 : Haunter_40
- Track 420 : Cicada_35, SBlackberry_33
- Track 421 : PermaG_34
- Track 422 : Linayshia_33
- Track 423 : Jera_34
- Track 424 : Rasovi_33, Htur_33
- Track 425 : AyoTeo_35, Labella_35, Typher_35
- Track 426 : Olympi_35
- Track 427 : Benry_32
- Track 428 : Milani_33
- Track 429 : Alove_33, Rootkit7_33, TurboVicky_33
- Track 430 : Johann_34, Goodman_34
- Track 431 : Sucha_30
- Track 432 : IndiRoo_33
- Track 433 : FireCastle_33
- Track 434 : Zanella_33
- Track 435 : Darwin_73, Stickynote_71
- Track 436 : Kimchi1738_73

- Track 437 : C3PO_72, Cruella_72
- Track 438 : Zion_72, PeteyPab_71, PotatoChip_72
- Track 439 : SamW_45, Adelaide_46, Troy_45, Dina_47, Lederberg_45
- Track 440 : StAB_50
- Track 441 : Stiles_49
- Track 442 : GoldenEssence_87
- Track 443 : LeoJr_100, Atuin_95, ReginaGlobina_100
- Track 444 : BooTeria_97, WaddleDee_88, DunneganBoMo_90, Artu_93, Emmetator_93
- Track 445 : Talia1610_101, Bloom_105, Racecar_102, Mimi_101, FrostedClock_104
- Track 446 : Rockabye_105
- Track 447 : Chilliams_99
- Track 448 : Panchaali_92
- Track 449 : Phrampa_94
- Track 450 : Stewart25555_92
- Track 451 : FloraSnap32_101
- Track 452 : SJReid_105
- Track 453 : Patbob_100
- Track 454 : KSunshine22_95
- Track 455 : Ellewin_89
- Track 456 : PorkBelly_54
- Track 457 : Ottawa_61, Kharcho_61
- Track 458 : Ezurina_37
- Track 459 : Studio_40
- Track 460 : TripleC_39
- Track 461 : TMaxx_39
- Track 462 : CardboardBox_39, Gerri43_38, ChipsNGuac_38, AnnabelLee_38, ChamoyPickle_40, Neuville_38, Roberts_38
- Track 463 : Mireles_41
- Track 464 : Audell_37
- Track 465 : Makima_38
- Track 466 : Agamotto_38
- Track 467 : LastNadiia_40
- Track 468 : Dodo_116, A3Wally_114, PauloDiaboli_114
- Track 469 : Big4_103
- Track 470 : Zooman_98
- Track 471 : Erasmago_105
- Track 472 : Cece_97
- Track 473 : Pumpnickel_111
- Track 474 : Huwburt_59
- Track 475 : Triscuit_58
- Track 476 : Megatron06_62, Damien_61, BobtimousPrime_63, Beckerton_60, Cborch11_63, Oaker_60
- Track 477 : Puissant_59
- Track 478 : Thumb_62, Phreeze_60
- Track 479 : Konstantine_65
- Track 480 : Predator_60
- Track 481 : DrLupo_67
- Track 482 : Barnyard_65
- Track 483 : Rope_66, Papyrus_66
- Track 484 : Candle_64
- Track 485 : MontyDev_68

- Track 486 : Yelo_65, Nilo_68, Riparian_68, Zenon_68, Send513_66, Weiss13_66
- Track 487 : Demikore_78, Labelle_76
- Track 488 : SuperSonics_79
- Track 489 : Madruga_74
- Track 490 : Patience_76
- Track 491 : Laure_105
- Track 492 : Parvaparticeps_24
- Track 493 : LuckyBarnes_64
- Track 494 : Gallia_72
- Track 495 : Trogglehumper_76
- Track 496 : Shrew_71
- Track 497 : Wolypog_43
- Track 498 : Mbo2_52
- Track 499 : DocB7_048
- Track 500 : ChewyVIII_83
- Track 501 : 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 247, it was called in 139 of the 730 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_42, Adelaide_46, Agente005_41, Alakazam_40, AlexAdler_41, Alyxandracam_41, Antoinette_41, AranulaLuti_40, Asta_40, Aubergine_40, AxiPup_41, Baines_40, Balsa_40, Bandik_41, BeautPeep30_41, BeeBee8_41, Benjalauren_41, BigRedClifford_41, Blage_41, BonesMcCoy_41, Bonino_40, Byron23_42, Calix_40, Chako_40, Chamuel_40, Cheeto1_42, ChickenKing_40, Christoph_40, Clancy_40, Clock_40, Convict_41, CoraRita_42, Dave_41, Delphidian_41, Den3_41, Dina_47, Dothraki_41, Duocatuli_40, Endor_41, Erla_40, Espinosa_40, Etna_40, Etta_40, Exploradora_40, FarmerDoug_40, Figueroism_41, GaeCeo_42, GardenB_40, Garey24_41, Gargoyle_41, Gelo_40, Gershwin_40, GoingMerry_42, GoneGirl_41, Greys_41, Gubbabump_40, Hamlet_40, HanSolo_40, HankSprout_41, HavenFinLeoSun_42, HungryHenry_40, Ilzat_40, Inventa_41, Ioannes_41, Janus167_40, JasonD_43, JasperRussell_40, Jerbirus_42, JeriBeth_40, Kale_40, KannH_40, KellyGreen_42, KingJulien_40, Klimt_41, Knox_41, Kouch_41, Kurt1_41, Leafus_40, Lederberg_45, Lovelyunicorn_41, Ludgate_41, MaeLinda_41, ManRay_40, Martin_42, Merida02_43, MillyPhilly_41, MonChoix_39, MrWorldwide_41, Nagem_41, Nattles_40, Nebulous_39, Neferthena_41, NickSell_41, Oats_40, OldNelly_42, Oxtober96_42, Papafritta_40, ParleG_41, Peep_41, Peppino_40, Pherferi_41, Phiderman_41, Phireproof_41, PhredFlintston_41, Phriends_41, Pocket_40, PorkBelly_54, PuppyEggo_41, Raccoon_40, Rapheph_41, Raptor_41, Redfield_40, Renzie_41, Riyhil_41, Robinson_41, Rog141_40, RosieMae_40, SJay_41, SamW_45, Schnapsidee_40, Sedgewig_40, ShaiHulud_41, Shee_41, SoilGremlin_42, SolidSnake_43, SonOfLevi_41, Soror1_40, StAB_50, Stanktossa_41, Stiles_49, StingRay_40, StirfryIV_40, Stormbreaker8_40, Strathdee_41, Superfresh_41, Symere_40, TatarkaPM_41, Teagan_41, TeddyBear_40, Tenda_40, Thompsone_41, Thorongil_41, TinSulphur_42, Troy_45, Velene_41, Vispistious_41, WildNOut_41, Winzigespinne_40, Zada_42,

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

- Anilorac_40, Archimedes_37, Beckerton_60, BobtimousPrime_63, Cborch11_63, Damien_61, Demikore_78, DrLupo_67, DumpTruck_58, Konstantine_65, Labelle_76, Madruga_74, Megatron06_62, Oaker_60, Patience_76, PhillyPhantom_40, Phreeze_60, Predator_60, Puissant_59, SuperSonics_79, Thumb_62, Xenia2_58, Yara_66,

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

- 8UZL_50, A3Wally_114, ASerpRocky_55, Adgers_62, Adjutor_52, Aesir_39, Agamotto_38, Agatha_53, AikoCarson_54, Aikoy_65, Ajin_42, Albanese_29, Aledel_26, Alephilan_60, Alove_33, Alyssamiracle_63, Amok_54, Amore2_62, Anakin_40, Anamika_57, AndPeggy_50, Andromedas_40, AnnaSerena_40, AnnabelLee_38, Annapurna_40, Apeppi_55, Apiary_72, ApoKipo_99, AppleCider_29, Araceli_42, Arti_71, Artiphact_40, Artu_93, Astralis_60, Atuin_95, Audell_37, AustinPowers_26, Austin_61, Avian_59, Axym_52, AyoTeo_35, Azira_49, Balloona_55, Barbochs_57, Barnyard_65, BaronJohn_41, Bavilard_56, Beaver_62, Beethoven_29, Benczkowski14_57, Bennie_25, BenoitCattle_59, Benry_32, Berries_57, Beyoncage_50, BiPauneto_74, Bianmat_57, Big4_103, BigChungus_56, BigMack_25, BigMama_51, BigShaq_59, BillDoor_53, BillyBobJr_65, BirksAndSocks_64, BirthdayBoy_62, Biskit_55, BiteSize_50, Blondies_56, Bloom_105, BlueNGold_166, Bodacious_25, Bogota_43, Boneham_63, Bonum_76, BooTeria_97, Boopy_169, BouleyBill_39, Bramble_42, Braxoaddie_72, Breezic_59, BrotherBLo_29, Bubble_51, Buggaboo_74, Burnsey_53, Bustleton_39, Butterball_62, Butterscotch_52, Button_57, Buttrmlkdreams_55, C3PO_72, Camerico_63, Candle_64, CanesSauce_52, Canowicakte_29, CaptainRex_40, CaramelLatte_52, CardboardBox_39, CarisSwetlik_43, Carostasia_39, Carpal_29, Carsonalex_56, Casey_37, CathyBurgh_59, Cece_97, ChamoyPickle_40, Charianelly_57, Charminar_59, Chelms_59, Chepli_42, CherryonLim_57, ChewChew_25, ChewyVIII_83, ChickenTender_56, ChikPic_40, Chill_55, Chilliams_99, ChipsNGuac_38, Chivey_40, ChocoMunchkin_52, Cholula_29, Chridison_26, Christian_25, Cicada_35, CinnamonToast_65, Cleo_47, CocoaPuff_56, CoffeeBean_72, ColaCorta_40, Commandaria_72, CoolCookie_40, Cozz_51, Crestdrop_40, Crete_60, CristinaYang_25, Crosby_42, Cruella_72, Cuke_73, Cybele_40, Daiboju_26, Dakiti_60, Dalilpop_75, Damp_57, DannyDe_40, Darwin_73, Dauntless_39, DaviePasture_60, Delton_54, Demosthenes_55, Diabla_63, Djokovic_50, DocB7_048, Dodo_116, DoobyDoo_59, DrRobert_25, Dre3_48, DreamTeam_25, Dryad_74, DunneganBoMo_90, Edmundo_94, Eggsie_57, Ekhein_59, ElJefes_58, Eleri_40, Elinal_60, Elliott_53, Ellewin_89, Emalyn_52, Emianna_72, Emmetator_93, Ennea_79, Erasmago_105, Erk16_52, Erudite_39, Erutan_60, EstebanJulior_26, Eunoia_26, Exiguo_58, Ezurina_37, FF47_48, Feastonyeet_56, FelixAlejandro_64, Finny_41, FireCastle_33, Flakey_58, Flapper_75, Float294_74, FloraSnap32_101, Fluke_29, Forza_170, FountainFog_39, Fowlmouth_74, Foxboro_72, FreddieHg_40, Fribs8_48, Frizzle_34, FrostedClock_104, Fulcrum_60, Fulton_40, Fury_82, GMA2_64, GMA3_58, GMA7_51, GOATification_60, GRU1_61, GTE2_44, GTE5_60, GTE7_50, GTE8_60, Gagieri_70, GalacticEye_57, Gallia_72, Genamy16_63, Gerri43_38, Ghobes_35, GiKK_57, Gibbin_62, Gibbles_56, Gibbous_48, Gibson_70, Gilda_40, Gisselle_25, Giuseppe_53, Glamour_40, Glenn_29, Gmala1_55, GodonK_184, GoldHunter_54, GoldenEssence_87, Golden_39, Goodman_34, GordDuk1_59, GordTnk2_60, Gorko_58, GourdThymes_59, Graynor_30, GreenHearts_29, Greenlvy_40, Greenbelt_68, Greenhouse_29, GretelLyn_60, GrootJr_74, Guetzie_40, Guillaume_57, Gumball_52, Hager_41, Hail2Pitt_56, HairyMan_37, Harambe_57, Hasitha_40, Haunter_40, Hawkeye_56, HayZem_62, Hello_57, Helpful_56,

Henoccus_42, Herb_26, HerculesXL_40, Hexbug_60, Hiddenleaf_40, HippoPololi_50, Hollow_57, HomeFry_79, Horseradish_55, Hotorobo_59, Htur_33, HubbaBubba_67, HunterDalle_26, Huntingdon_29, Huwburt_59, IDyn_69, IndiRoo_33, Indlulamithi_65, Intolerant_41, Ixel_41, JDawG_39, JackieB_42, JacoRen57_46, Jalebi_59, Jamemuya19_59, Jams_57, Jamzy_58, Jellybones_61, Jemerald_42, Jenos_44, Jera_34, Jifall16_71, JingleBells_40, Jingles_40, Joann_29, Johann_34, John316_62, Jormungandr_57, Juanyo_39, Juicer_42, Jumbo_57, Jumboset_29, KSunshine22_95, Kabluna_75, Kalizoi_29, Kampe_58, KandZ_52, Karate_39, Kaseim_57, KatChan_42, Kate_41, Katyusha_57, Kauala_39, Kavo_39, KayGee_58, Kelzog_61, Kharcho_61, KidneyBean_72, KimJongPhill_74, Kimchi1738_73, KingBob_26, Kittykat_25, Koji_39, Korra_30, Kors_42, Kovu_95, Krampus_40, Kurt_72, Kvothe_56, Labella_35, Lahirium_57, Lakshmi_29, Lambo_58, Laroye_95, LastNadiia_40, Lauer_52, Laure_105, LavAbarElk_60, LazerLemon_42, LeoJr_100, Leopard_64, LiSara_92, Librie_40, Lidong_57, LilStuart_25, LilTerminator_40, Lila22_61, LilyPad_52, Linayshia_33, Linetti_59, Litotes_29, LittleFella_57, Lizz_70, Lizzo_59, Lollipop1437_76, LongHai_51, LordBart_42, Lucky3_39, LuckyBarnes_64, LuckyLeo_57, Lucy_25, Luker_58, Luna18_42, MAnor_58, MCubed_40, MScarn_57, MaVan_49, MacGully_81, Maco6_48, Madi_50, Makima_38, Makoto_25, Malvina_51, MamaPearl_26, Mandalorian_39, Mareelih_167, Margaret_58, Maria1952_26, Marietta_72, Marky_44, Maselop_72, Mayweather_61, Mbo2_52, McDazzle_58, McGalleon_43, MeganNoll_29, MerCougar_75, Mercedes_36, Microdon_41, Milani_33, Mima20_60, Mimi_101, MiniVolent_38, Minos_58, Mireles_41, Misaeng_29, MoiGyank_63, Moki_25, MontyDev_68, Monty_58, Mopey_54, Morigan_42, MortySmith_38, MrBoss_30, MrMiyagi_73, MrWormie_57, Msay19_64, Muddy_50, MunkgeeRoachy_51, NadineRae_71, Nancia_25, NarutoRun_40, NatB6_72, Neovie_57, Neptune_40, Neuville_38, Newt_58, Niagara_57, Nibbles_48, Nilo_68, Nimi13_57, Nina_53, NoShow_58, Nodigi_60, NorManre_63, NosilaM_73, NovaSharks_62, Nova_52, NovumRegina_72, Nubia_29, Nucci_39, OMalley_26, OhDear_40, Olympi_35, Onyinye_65, Orchid_57, Orla_60, Ottawa_61, OtterstedtS21_60, Outis_73, OverHedge_40, Oxynfrius_29, P1201_75, PBI1_50, PHTown_70, PLOT_53, PSirce_40, Pajaza_37, Panchaali_92, Papyrus_66, PartyCup_29, Parvaparticeps_24, ParvusTarda_59, Patbob_100, Patio_74, Patos_63, PatrickStar_58, PauloDiaboli_114, Pemberton_73, Penelope2018_53, Penta_37, PermaG_34, PeteyPab_71, Phalaborwa_53, Phanita_41, Pharpay_40, Phendrix_173, Pherbot_39, Philon9_57, Phomeo_71, Phrampa_94, PhunaPhoke_40, PierreThree_58, Pikmin_37, PinkFriday_25, PitaDog_25, Pleakley_82, PokyPuppy_58, Poland_64, Polyyuki_72, Pons_58, PotPie_56, PotatoChip_72, Potatoes_29, Potty_40, Poultriss_39, Prager_53, Preamble_25, PrincePhergus_39, PsychoKiller_52, Pumancara_25, Pumpernickel_111, Pywacket_58, QuadZero_39, Quartz_40, Quasar_53, RADical_54, RAP15_29, RSchmailzl_54, Racecar_102, Rachella_40, RanchParmCat_57, Ranch_60, Rasovi_33, RazorC_60, RcigaStruga_29, RedBaron_58, RedRaider_79, ReginaGlobina_100, RemRem_60, RenegadeRaider_42, Reynauld_56, Riduram_59, Rie18_40, RikSengupta_42, Rivovina_26, Riparian_68, Riverdale_29, Roberts_38, RobinSparkles_61, Rockabye_105, Rooney_70, Rootkit7_33, Rope_66, Rota_56, RoyalG_59, Rozby_29, Rukungu_63, Rumi_61, SBlackberry_33, SJReid_105, Sadboi_61, Salgado_95, Salvus_51, Sam12_58, Sampudon_60, Sansa_39, Sapo_34, Saratos_40, SassyC_75, Savage2526_29, Schimmels22_39, Schubert_39, Scissor2024_40, Scuba_83, Scuttle_29, Send513_66, Sergei_26, ShakeNBake_70, Shamu_41, SheckWes_60, Shelley_57, Shrew_71, Shrooms_93, Shynx_42, Sienna_50, SilentWarrior_40, Sinatra_40, SirHarley_54, SirVictor_40, Sixama_168, SketchMex_53, Skysand_75, Snakehole_40, Socotra_54, Sombrero_60,

Sopespian_50, Sparcetus_42, Squibbles_58, Srilaccoli3_51, StarStruck_73, Starburst_53, SteamedHams_54, SteveFrench_58, Stewart25555_92, Sticker17_57, Stickynote_71, Stormer_61, Studio_40, Stuff_42, Sucha_30, Sukkupi_71, SummitAcademy_56, SuperSulley_74, SuperheroCarly_53, Suppi_29, Survivors_49, Suzy_49, SweatNTears_55, TMaxx_39, Talia1610_101, Tarnish_57, TattModd_29, Teal_57, Teatealatte_58, Tedro_40, Teech_58, Temper16_26, Terapin_51, Theresita_31, Thoth_53, Tillicus_56, TinyMiny_42, Tinyman4_39, Tolls_54, Tongui_40, Tracker_72, Tredge_57, TripleC_39, Triscuit_58, Trogglehumper_76, Troje_55, Troll4_53, TurboVicky_33, Turuncu_75, TwoBits_39, Typher_35, Typhonomachy_52, UNTPL_44, Urla_26, Vallejo_29, Vine_59, Virizion_75, Visconti_54, Vitaenoi_57, Vulture_26, WaddleDee_88, WaldoWhy_55, Wallaby_51, Waltz_91, Wardwill_42, Wawa_29, Wayne_29, Weiss13_66, Wentworth_70, WestPM_37, Wheelbite_90, Wheezy_72, WhoseManz_71, Wilkos_72, WilliamStrong_40, Woes_57, Wojtek_56, Wolfwood_49, Wolypog_43, WonderBoy_25, Worcestershire_59, Xebius_40, Yakult_55, Yarn_50, Yelo_65, Yikes_62, Yndexa_71, Yucky_59, Yummy_55, Yuyu_40, Zanella_33, Zany_58, Zareef_49, Zayuliv_40, Zenitsu_40, Zenon_68, Zepp_40, Zion_72, Zooman_98, Zorro_29, Zuko_72,

Summary by start number:

Start 36:

- Found in 7 of 834 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 14.3% of time when present
- Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 38:

- Found in 46 of 834 (5.5%) of genes in pham
- Manual Annotations of this start: 35 of 730
- Called 80.4% 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_79 (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 40:

- Found in 6 of 834 (0.7%) of genes in pham
- Manual Annotations of this start: 6 of 730
- 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 42:

- Found in 3 of 834 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 33.3% of time when present

- Phage (with cluster) where this start called: MacGully_81 (CR7),

Start 43:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_83 (singleton),

Start 48:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuperheroCarly_53 (D1),

Start 50:

- Found in 9 of 834 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Greenbelt_68 (BN),

Start 51:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_65 (H2),

Start 52:

- Found in 1 of 834 (0.1%) 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 53:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_56 (D2),

Start 55:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrLupo_67 (H2),

Start 56:

- Found in 11 of 834 (1.3%) of genes in pham
- Manual Annotations of this start: 8 of 730
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Dryad_74 (BN), Gibson_70 (BN), Lizz_70 (BN), PHTowN_70 (BN), Rooney_70 (BN), SassyC_75 (BN), ShakeNBake_70 (BN), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN),

Start 57:

- Found in 44 of 834 (5.3%) of genes in pham
- Manual Annotations of this start: 13 of 730
- Called 36.4% 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), Pywacket_58 (DV), Rota_56 (DV), Sampudon_60 (DV), Stormer_61 (DV), Wojtek_56 (DV), Zany_58 (DV),

Start 58:

- Found in 78 of 834 (9.4%) of genes in pham
- Manual Annotations of this start: 58 of 730
- Called 76.9% 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_63 (H1), Butterscotch_52 (D1), Cborch11_63 (H1), Charminar_59 (DV), Chill_55 (D1), Damien_61 (H1), DaviePasture_60 (DV), Delton_54 (D1), DoobyDoo_59 (DV), Erk16_52 (D1), Erutan_60 (DV), Fulcrum_60 (DV), GOATification_60 (DV), 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), 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), PLOT_53 (D1), Patos_63 (DV), Penelope2018_53 (D1), Phreeze_60 (H1), Prager_53 (D1), Predator_60 (H1), Puissant_59 (H1), Ranch_60 (DV), RazorC_60 (DV), Riduram_59 (DV), Rukungu_63 (DV), Rumi_61 (DV), Sadboi_61 (DV), SirHarley_54 (D1), Thoath_53 (D1), Thumb_62 (H1), Troll4_53 (D1), Visconti_54 (D1), WaldoWhy_55 (D1), Yikes_62 (DV),

Start 59:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tillicus_56 (DV),

Start 61:

- Found in 6 of 834 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Wollypog_43 (singleton),

Start 62:

- Found in 5 of 834 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Demikore_78 (U), Labelle_76 (U), Madrugua_74 (U), Patience_76 (U), SuperSonics_79 (U),

Start 66:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleFella_57 (DG2),

Start 67:

- Found in 10 of 834 (1.2%) of genes in pham
- Manual Annotations of this start: 8 of 730
- 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 69:

- Found in 101 of 834 (12.1%) of genes in pham
- Manual Annotations of this start: 45 of 730
- Called 48.5% 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), Beyoncage_50 (DG1), BiteSize_50 (DG1), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), Djokovic_50 (DG1), DumpTruck_58 (DV), 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), LilyPad_52 (DG1), Madi_50 (DG1), 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), Sienna_50 (DG1), SilentWarrior_40 (EF), Snakehole_40 (EF), Suzy_49 (DG1), Tedro_40 (EF), Terapin_51 (DG1), Tongui_40 (EF), Virizion_75 (BN), Xenia2_58 (DV),

Start 70:

- Found in 7 of 834 (0.8%) of genes in pham
- Manual Annotations of this start: 6 of 730
- 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 75:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho_61 (FM), Ottawa_61 (FM),

Start 82:

- Found in 13 of 834 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 23.1% of time when present
- Phage (with cluster) where this start called: GTE8_60 (CR2), NatB6_72 (CR2), Wheezy_72 (CR2),

Start 89:

- Found in 3 of 834 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cuke_73 (AC), Fowlmouth_74 (AC), MrMiyagi_73 (AC),

Start 91:

- Found in 20 of 834 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 5.0% of time when present
- Phage (with cluster) where this start called: NosilaM_73 (CR2),

Start 95:

- Found in 24 of 834 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 4.2% of time when present
- Phage (with cluster) where this start called: Indlulamithi_65 (AC),

Start 114:

- Found in 27 of 834 (3.2%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 11.1% of time when present
- Phage (with cluster) where this start called: BiPauneto_74 (CR4), Sukkupi_71 (CR4), Yndexa_71 (CR4),

Start 116:

- Found in 66 of 834 (7.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Pemberton_73 (CR4),

Start 117:

- Found in 12 of 834 (1.4%) of genes in pham
- Manual Annotations of this start: 9 of 730
- 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 121:

- Found in 13 of 834 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 15.4% of time when present
- Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4),

Start 132:

- Found in 5 of 834 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 730
- 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 146:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cece_97 (GD3),

Start 147:

- Found in 5 of 834 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_166 (DS), Boopy_169 (DS), Forza_170 (DS), Mareelih_167 (DS), Sixama_168 (DS),

Start 148:

- Found in 29 of 834 (3.5%) of genes in pham
- Manual Annotations of this start: 12 of 730
- 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), Chilliamps_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 151:

- Found in 30 of 834 (3.6%) of genes in pham
- Manual Annotations of this start: 19 of 730
- Called 83.3% of time when present
- Phage (with cluster) where this start called: A3Wally_114 (GD1), Agamotto_38 (FR), AnnabelLee_38 (FR), Audell_37 (FR), Big4_103 (GD2), CardboardBox_39 (FR), ChamoyPickle_40 (FR), ChipsNGuac_38 (FR), Dodo_116 (GD1), Erasmago_105 (GD2), Ezurina_37 (FR), Gerri43_38 (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_39 (FR), Zooman_98 (GD2),

Start 159:

- Found in 9 of 834 (1.1%) of genes in pham
- Manual Annotations of this start: 9 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_99 (AL), Edmundo_94 (AL), Kovu_95 (AL), Laroye_95 (AL), LiSara_92 (AL), Salgado_95 (AL), Shrooms_93 (AL), Waltz_91 (AL), Wheelbite_90 (AL),

Start 166:

- Found in 12 of 834 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Anilorac_40 (EA1),

Start 171:

- Found in 10 of 834 (1.2%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 60.0% of time when present
- Phage (with cluster) where this start called: 8UZL_50 (AB), FF47_48 (AB), LongHai_51 (AB), Maco6_48 (AB), Muddy_50 (AB), Salvus_51 (AB),

Start 178:

- Found in 7 of 834 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ASerpRocky_55 (CS4),

Start 183:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_74 (BR), Zuko_72 (BR),

Start 194:

- Found in 69 of 834 (8.3%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 7.2% 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 196:

- Found in 8 of 834 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Triscuit_58 (GG),

Start 198:

- Found in 71 of 834 (8.5%) of genes in pham
- Manual Annotations of this start: 49 of 730
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Agatha_53 (CT), AikoCarson_54 (CT), Amok_54 (CT), AndPeggy_50 (CT), Axym_52 (CT), Azira_49 (CT), Balloona_55 (CT), Bavidard_56 (CT), BigChungus_56 (CT), BillDoor_53 (CT), Biskit_55 (CT), Blondies_56 (CT), Bubble_51 (CT), Burnsey_53 (CT), Buttrmlkdreams_55 (CT), CanesSauce_52 (CT), CaramelLatte_52 (CT), CherryonLim_57 (CT), ChickenTender_56 (CT), ChocoMunchkin_52 (CT), Cleo_47 (CT), Cozz_51 (CT), ElJefes_58 (CT), Elinal_60 (CT), Elliott_53 (CT), Emalyn_52 (CT), Feastonyeet_56 (CT), GoldHunter_54 (CT), HippoPololi_50 (CT), Horseradish_55 (CT), Huwbert_59 (GG), KayGee_58 (CT), Lauer_52 (CT), MAnor_58 (CT), MScarn_57 (CT), MaVan_49 (CT), Malvina_51 (CT), McDazzle_58 (CT), MunkgeeRoachy_51 (CT), Nibbles_48 (CT), Nina_53 (CT), Pons_58 (CT), PotPie_56 (CT), PsychoKiller_52 (CT), Quasar_53 (CT), RADical_54 (CT), RSchmailzl_54 (CT), SheckWes_60 (CT), SketchMex_53 (CT), Socotra_54 (CT), Sopespian_50 (CT), Starburst_53 (CT), SteamedHams_54 (CT), SummitAcademy_56 (CT), Survivors_49 (CT), SweatNTears_55 (CT), Tarnish_57 (CT), Tolls_54 (CT), Troje_55 (CT), Typhonomachy_52 (CT), Vine_59 (CT), Wallaby_51 (CT), Wolfwood_49 (CT), Yarn_50 (CT), Yucky_59 (CT), Yummy_55 (CT), Zareef_49 (CT),

Start 199:

- Found in 3 of 834 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dre3_48 (CT), Fribs8_48 (CT), Gibbous_48 (CT),

Start 200:

- Found in 10 of 834 (1.2%) of genes in pham
- Manual Annotations of this start: 10 of 730
- 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 202:

- Found in 12 of 834 (1.4%) of genes in pham
- Manual Annotations of this start: 10 of 730
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Button_57 (CT), GiKK_57 (CT), Hexbug_60 (CT), Jamzy_58 (CT), Margaret_58 (CT), Nodigi_60 (CT), Orla_60 (CT), RanchParmCat_57 (CT), RedBaron_58 (CT), Yakult_55 (CT),

Start 203:

- Found in 42 of 834 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Shrew_71 (singleton),

Start 204:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_46 (AB), NoShow_58 (AB),

Start 216:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FireCastle_33 (EJ),

Start 219:

- Found in 79 of 834 (9.5%) of genes in pham
- Manual Annotations of this start: 74 of 730
- Called 97.5% 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), Luker_58 (CS3), 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), Oxyfnrius_29 (AK), PartyCup_29 (AK), Parvaparticeps_24 (UNK), 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 220:

- Found in 2 of 834 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Benry_32 (EJ), Milani_33 (EJ),

Start 221:

- Found in 41 of 834 (4.9%) of genes in pham
- Manual Annotations of this start: 28 of 730
- 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 222:

- Found in 20 of 834 (2.4%) of genes in pham
- Manual Annotations of this start: 17 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alove_33 (EJ), AyoTeo_35 (EJ), Cicada_35 (EJ), Goodman_34 (EJ), Htur_33 (EJ), IndiRoo_33 (EJ), Jera_34 (EJ), Johann_34 (EJ), Labella_35 (EJ), Linayshia_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 224:

- Found in 13 of 834 (1.6%) of genes in pham
- Manual Annotations of this start: 13 of 730
- Called 100.0% 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), Sapo_34 (DA), Shynx_42 (BH), Stuff_42 (BH), UNTPL_44 (BH),

Start 228:

- Found in 13 of 834 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Frizzle_34 (DA), Ghobes_35 (DA), Marky_44 (BH),

Start 229:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trogglehumper_76 (singleton),

Start 233:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PokyPuppy_58 (CS2),

Start 234:

- Found in 3 of 834 (0.4%) 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 239:

- Found in 5 of 834 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 730
- 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 241:

- Found in 26 of 834 (3.1%) of genes in pham
- Manual Annotations of this start: 2 of 730
- Called 7.7% of time when present
- Phage (with cluster) where this start called: BouleyBill_39 (EA4), Kauala_39 (EA4),

Start 243:

- Found in 9 of 834 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 730
- Called 77.8% 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), Srilacoli3_51 (CH),

Start 244:

- Found in 3 of 834 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kavo_39 (EA11), Penta_37 (EA11), WestPM_37 (EA11),

Start 246:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Schubert_39 (EA8),

Start 247:

- Found in 172 of 834 (20.6%) of genes in pham
- Manual Annotations of this start: 139 of 730
- Called 86.6% of time when present
- Phage (with cluster) where this start called: Acosta_42 (EA1), Adelaide_46 (EP), Agente005_41 (EA1), Alakazam_40 (EA5), AlexAdler_41 (EA1), Alyxandracam_41 (EA1), Antoinette_41 (EA1), AranulaLuti_40 (EA1), Asta_40 (EA1), Aubergine_40 (EA1), AxiPup_41 (EA1), Baines_40 (EA1), Balsa_40 (EA1), Bandik_41 (EA1), BeautPeep30_41 (EA1), BeeBee8_41 (EA1), Benjalauren_41 (EA1), BigRedClifford_41 (EA1), Blage_41 (EA1), BonesMcCoy_41 (EA1), Bonino_40 (EA1), Byron23_42 (EA1), Calix_40 (EA1), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), ChickenKing_40 (EA9), Christoph_40 (EA1), Clancy_40 (EA1), Clock_40 (EA5), Convict_41 (EA1), CoraRita_42 (EA1), Dave_41 (EA1), Delphidian_41 (EA1), Den3_41 (EA1), Dina_47 (EP), Dothraki_41 (EA1), Duocatuli_40 (EA1), Endor_41 (EA1), Erla_40 (EA1), Espinosa_40 (EA1), Etna_40 (EA1), Etta_40 (EA1), Exploradora_40 (EA1), FarmerDoug_40 (EA1), Figueroism_41 (EA1), GaeCeo_42 (EA9), GardenB_40 (EA1), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), GoingMerry_42 (EA1), GoneGirl_41 (EA1), Greys_41 (EA1), Gubbabump_40 (EA1), Hamlet_40 (EA1), HanSolo_40 (EA1), HankSprout_41 (EA1), HavenFinLeoSun_42 (EA1), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1), Ioannes_41 (EA1), Janus167_40 (EA1), JasonD_43 (EA1), JasperRussell_40 (EA1), Jerbirus_42 (EA1), JeriBeth_40 (EA1), Kale_40 (EA1), KannH_40 (EA1), KellyGreen_42 (EA1), KingJulien_40 (EA1), Klimt_41 (EA1), Knox_41 (EA1), Kouch_41 (EA1), Kurt1_41 (EA1), Leafus_40 (EA1), Lederberg_45 (EP), Lovelyunicorn_41 (EA1), Ludgate_41 (EA1), MaeLinda_41 (EA1), ManRay_40 (EA1), Martin_42 (EA1), Merida02_43 (EA1), MillyPhilly_41 (EA1), MonChoix_39 (EA1), MrWorldwide_41 (EA1), Nagem_41 (EA1), Natties_40 (EA1), Nebulous_39 (EA5), Neferthena_41 (EA5), NickSell_41 (EA1), Oats_40 (EA1), OldNelly_42 (EA1), Oxtobor96_42 (EA1), Papafritta_40 (EA1), ParleG_41 (EA1), Peep_41 (EA1), Peppino_40 (EA1), Pherferi_41 (EA1), Phiderman_41 (EA1), Phireproof_41 (EA1), PhredFlintston_41 (EA1), Phriends_41 (EA1), Pocket_40 (EA1), PorkBelly_54 (FJ), PuppyEggo_41 (EA1), Raccoon_40 (EA1), Rapheph_41 (EA1), Raptor_41 (EA1), Redfield_40 (EA1), Renzie_41 (EA1), Rihhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), RosieMae_40 (EA1), SJay_41 (EA1), SamW_45 (EP), Schnapsidee_40 (EA1), Sedgewig_40 (EA1), ShaiHulud_41 (EA1), Shee_41 (EA1), SoilGremlin_42 (EA1), SolidSnake_43 (EA1), SonOfLevi_41 (EA1), Soror1_40 (EA1), StAB_50 (EP), Stanktossa_41 (EA1), Stiles_49 (EP), StingRay_40 (EA1), StirfryIV_40 (EA1), Stormbreaker8_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), Symere_40 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsons_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), Troy_45 (EP), Velene_41 (EA1), Vispistious_41 (EA1), WildNOut_41 (EA1), Winzigespinne_40 (EA1), Zada_42 (EA1),

Start 249:

- Found in 27 of 834 (3.2%) of genes in pham
- Manual Annotations of this start: 8 of 730
- Called 29.6% of time when present
- Phage (with cluster) where this start called: Bustleton_39 (EA4), Golden_39 (EA4), Koji_39 (EA4), Lucky3_39 (EA4), Phanita_41 (EA2), Pherbot_39 (EA4), PrincePhergus_39 (EA4), Sinatra_40 (EA4),

Start 250:

- Found in 39 of 834 (4.7%) of genes in pham
- Manual Annotations of this start: 24 of 730

- Called 64.1% of time when present
- Phage (with cluster) where this start called: CaptainRex_40 (EA5), CarisSwetlik_43 (EA1), Chepli_42 (EA6), Fulton_40 (EA5), Greenlvy_40 (EA5), Hasitha_40 (EA5), HerculesXL_40 (EA11), Jemerald_42 (EA6), Jenos_44 (EA1), Juicer_42 (EA6), KatChan_42 (EA6), Librie_40 (EA5), LilTerminator_40 (EA5), Luna18_42 (EA6), McGalleon_43 (EA1), Mercedes_36 (EA), QuadZero_39 (EA5), Schimmels22_39 (EA11), Scissor2024_40 (EA11), Tinyman4_39 (EA11), TwoBits_39 (EA5), Wardwill_42 (EA5), WilliamStrong_40 (EA6), Zayuliv_40 (EA5), Zepp_40 (EA5),

Start 251:

- Found in 1 of 834 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HairyMan_37 (EA10),

Start 252:

- Found in 39 of 834 (4.7%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 2.6% of time when present
- Phage (with cluster) where this start called: Morrigan_42 (EA6),

Start 253:

- Found in 41 of 834 (4.9%) of genes in pham
- Manual Annotations of this start: 24 of 730
- Called 63.4% of time when present
- Phage (with cluster) where this start called: Andromedas_40 (EA2), Carostasia_39 (EA10), Casey_37 (EA3), ChikPic_40 (EA2), ColaCorta_40 (EA2), Eleri_40 (EA2), Glamour_40 (EA2), Guetzie_40 (EA4), Jingles_40 (EA4), Juanyo_39 (EA10), LuckyBarnes_64 (singleton), MCubed_40 (EA2), Mandalorian_39 (EA10), MiniVolent_38 (EA10), Nucci_39 (EA10), PSirce_40 (EA2), Pajaza_37 (EA3), Pikmin_37 (EA3), Quartz_40 (EA10), Sansa_39 (EA2), Saratos_40 (EA2), Shamu_41 (EA2), SirVictor_40 (EA4), Xebius_40 (EA2), YuuY_40 (EA10), Zenitsu_40 (EA2),

Start 257:

- Found in 98 of 834 (11.8%) of genes in pham
- No Manual Annotations of this start.
- Called 3.1% of time when present
- Phage (with cluster) where this start called: Carsonalex_56 (CT), CocoaPuff_56 (CT), GTE2_44 (CT),

Start 265:

- Found in 61 of 834 (7.3%) of genes in pham
- No Manual Annotations of this start.
- Called 1.6% of time when present
- Phage (with cluster) where this start called: BaronJohn_41 (EA5),

Start 266:

- Found in 93 of 834 (11.2%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Finny_41 (EA2),

Start 273:

- Found in 61 of 834 (7.3%) of genes in pham
- Manual Annotations of this start: 28 of 730
- Called 47.5% 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 289:

- Found in 97 of 834 (11.6%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 1.0% of time when present
- Phage (with cluster) where this start called: Ixel_41 (EA11),

Start 308:

- Found in 190 of 834 (22.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.1% of time when present
- Phage (with cluster) where this start called: PhillyPhantom_40 (EA1), RenegadeRaider_42 (EA4),

Start 310:

- Found in 211 of 834 (25.3%) of genes in pham
- Manual Annotations of this start: 1 of 730
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Mayweather_61 (CT),

Start 323:

- Found in 107 of 834 (12.8%) of genes in pham
- No Manual Annotations of this start.
- Called 0.9% of time when present
- Phage (with cluster) where this start called: GTE5_60 (CR1),

Summary by clusters:

There are 65 clusters represented in this pham: GG, GD2, GD3, GD4, DK, EA9, GD1, FJ, BN, BH, singleton, DA, FC, BR, CR7, DV, DG1, DS, AB, UNK, CH, FR, EP, DF1, DF3, DF2, FM, CS4, EA6, CS1, CS3, CS2, AC, EN, AE, EJ, AK, EF, EA, AL, DG2, EA8, R, U, EA1, EA11, EA3, EA2, EA5, EA4, EA7, CT, CR2, CR3, CR1, CR6, EA10, CR4, CR5, H2, H1, CX, DF4, D2, D1,

Info for manual annotations of cluster AB:

- Start number 171 was manually annotated 2 times for cluster AB.
- Start number 204 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AC:

- Start number 89 was manually annotated 3 times for cluster AC.
- Start number 95 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

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

Info for manual annotations of cluster AK:

- Start number 219 was manually annotated 73 times for cluster AK.

Info for manual annotations of cluster AL:

- Start number 159 was manually annotated 9 times for cluster AL.

Info for manual annotations of cluster BH:

- Start number 224 was manually annotated 11 times for cluster BH.
- Start number 228 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BN:

- Start number 50 was manually annotated 1 time for cluster BN.
- Start number 56 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BR:

- Start number 183 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CH:

- Start number 243 was manually annotated 1 time for cluster CH.

Info for manual annotations of cluster CR1:

- Start number 38 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 38 was manually annotated 18 times for cluster CR2.
- Start number 82 was manually annotated 2 times for cluster CR2.
- Start number 91 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 38 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 38 was manually annotated 5 times for cluster CR4.
- Start number 114 was manually annotated 3 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 38 was manually annotated 3 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 40 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 42 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CS1:

- Start number 132 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 194 was manually annotated 1 time for cluster CS2.
- Start number 221 was manually annotated 28 times for cluster CS2.

- Start number 233 was manually annotated 1 time for cluster CS2.
- Start number 273 was manually annotated 6 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 194 was manually annotated 2 times for cluster CS3.
- Start number 219 was manually annotated 1 time for cluster CS3.
- Start number 273 was manually annotated 22 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 117 was manually annotated 9 times for cluster CS4.
- Start number 121 was manually annotated 2 times for cluster CS4.
- Start number 178 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CT:

- Start number 198 was manually annotated 48 times for cluster CT.
- Start number 199 was manually annotated 3 times for cluster CT.
- Start number 202 was manually annotated 10 times for cluster CT.
- Start number 310 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CX:

- Start number 239 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster D1:

- Start number 48 was manually annotated 1 time for cluster D1.
- Start number 58 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 53 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:

- Start number 224 was manually annotated 2 times for cluster DA.
- Start number 228 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DF3:

- Start number 243 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:

- Start number 243 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DG1:

- Start number 69 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:

- Start number 66 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:

- Start number 151 was manually annotated 2 times for cluster DK.

Info for manual annotations of cluster DS:

- Start number 147 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DV:

- Start number 57 was manually annotated 13 times for cluster DV.
- Start number 58 was manually annotated 23 times for cluster DV.
- Start number 59 was manually annotated 1 time for cluster DV.
- Start number 69 was manually annotated 2 times for cluster DV.

Info for manual annotations of cluster EA:

- Start number 250 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 166 was manually annotated 1 time for cluster EA1.
- Start number 247 was manually annotated 125 times for cluster EA1.
- Start number 250 was manually annotated 3 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 251 was manually annotated 1 time for cluster EA10.
- Start number 253 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 244 was manually annotated 1 time for cluster EA11.
- Start number 250 was manually annotated 3 times for cluster EA11.
- Start number 289 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 249 was manually annotated 1 time for cluster EA2.
- Start number 253 was manually annotated 11 times for cluster EA2.
- Start number 266 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 253 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 241 was manually annotated 2 times for cluster EA4.
- Start number 249 was manually annotated 7 times for cluster EA4.
- Start number 253 was manually annotated 3 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 247 was manually annotated 4 times for cluster EA5.
- Start number 250 was manually annotated 11 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 250 was manually annotated 6 times for cluster EA6.
- Start number 252 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA7:

- Start number 222 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:

- Start number 246 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 247 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 36 was manually annotated 1 time for cluster EF.
- Start number 69 was manually annotated 35 times for cluster EF.
- Start number 70 was manually annotated 6 times for cluster EF.

Info for manual annotations of cluster EJ:

- Start number 216 was manually annotated 1 time for cluster EJ.
- Start number 220 was manually annotated 2 times for cluster EJ.
- Start number 222 was manually annotated 16 times for cluster EJ.

Info for manual annotations of cluster EN:

- Start number 67 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster EP:

- Start number 247 was manually annotated 7 times for cluster EP.

Info for manual annotations of cluster FC:

- Start number 148 was manually annotated 12 times for cluster FC.

Info for manual annotations of cluster FM:

- Start number 75 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FR:

- Start number 151 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GD1:

- Start number 151 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 151 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 146 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 151 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster GG:

- Start number 196 was manually annotated 1 time for cluster GG.
- Start number 198 was manually annotated 1 time for cluster GG.

Info for manual annotations of cluster H1:

- Start number 58 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 51 was manually annotated 1 time for cluster H2.
- Start number 55 was manually annotated 1 time for cluster H2.

Info for manual annotations of cluster R:

- Start number 200 was manually annotated 10 times for cluster R.

Info for manual annotations of cluster U:

- Start number 62 was manually annotated 3 times for cluster U.

Gene Information:

Gene: 8UZL_50 Start: 38971, Stop: 37460, Start Num: 171

Candidate Starts for 8UZL_50:

(Start: 171 @38971 has 2 MA's), (201, 38935), (256, 38845), (257, 38842), (271, 38794), (299, 38725), (366, 38611), (464, 38482), (479, 38431), (481, 38425), (484, 38419), (497, 38395), (512, 38341), (572, 38200), (574, 38197), (604, 38140), (653, 38068), (655, 38065), (768, 37870), (793, 37825), (836, 37720), (850, 37660), (902, 37492), (913, 37471),

Gene: A3Wally_114 Start: 79188, Stop: 77338, Start Num: 151

Candidate Starts for A3Wally_114:

(126, 79257), (127, 79251), (Start: 151 @79188 has 19 MA's), (176, 79143), (184, 79131), (259, 79005), (278, 78942), (329, 78867), (395, 78759), (403, 78741), (429, 78672), (448, 78645), (460, 78585), (516, 78420), (563, 78276), (600, 78189), (610, 78162), (621, 78126), (625, 78117), (638, 78060), (639, 78054), (653, 78009), (659, 77997), (673, 77976), (684, 77952), (697, 77916), (744, 77871), (792, 77787), (793, 77784), (796, 77778), (822, 77715), (845, 77613), (864, 77526), (875, 77484), (890, 77433),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 178

Candidate Starts for ASerpRocky_55:

(Start: 117 @52804 has 9 MA's), (Start: 121 @52792 has 2 MA's), (161, 52693), (Start: 178 @52672 has 1 MA's), (227, 52606), (277, 52507), (288, 52471), (297, 52447), (301, 52438), (306, 52429), (329, 52381), (342, 52357), (371, 52315), (387, 52300), (422, 52225), (461, 52165), (463, 52162), (485, 52096), (488, 52093), (504, 52057), (505, 52054), (517, 52027), (521, 52015), (541, 51967), (557, 51934), (569, 51910), (581, 51886), (594, 51862), (648, 51796), (689, 51697), (736, 51598), (754, 51565), (756, 51562), (826, 51445), (827, 51442), (844, 51385), (847, 51367), (874, 51250), (875, 51247), (880, 51235), (925, 51136), (931, 51115),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 247

Candidate Starts for Acosta_42:

(113, 31790), (Start: 178 @31649 has 1 MA's), (179, 31646), (181, 31643), (Start: 247 @31547 has 139 MA's), (308, 31400), (Start: 310 @31394 has 1 MA's), (389, 31277), (404, 31250), (430, 31190), (457, 31163), (462, 31160), (464, 31157), (499, 31064), (511, 31022), (580, 30860), (584, 30851), (600, 30830), (605, 30824), (685, 30731), (701, 30695), (711, 30671), (755, 30596), (820, 30482), (838, 30422), (845, 30398), (846, 30392), (848, 30380), (882, 30257), (890, 30230), (900, 30203),

Gene: Adelaide_46 Start: 37262, Stop: 38638, Start Num: 247

Candidate Starts for Adelaide_46:

(Start: 247 @37262 has 139 MA's), (274, 37331), (281, 37349), (320, 37442), (357, 37502), (360, 37508), (362, 37511), (457, 37631), (467, 37649), (511, 37766), (564, 37904), (584, 37943), (602, 37976), (605, 37982), (611, 37997), (651, 38036), (694, 38096), (705, 38120), (734, 38156), (783, 38225), (785, 38231), (828, 38312), (851, 38408), (854, 38420), (857, 38432), (870, 38489), (872, 38495), (876, 38507), (886, 38537), (906, 38588),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 221

Candidate Starts for Adgers_62:

(94, 52447), (112, 52396), (153, 52291), (169, 52261), (Start: 194 @52228 has 3 MA's), (Start: 203 @52219 has 1 MA's), (Start: 221 @52192 has 28 MA's), (288, 52024), (306, 51982), (312, 51964),

(329, 51934), (334, 51922), (342, 51910), (346, 51904), (362, 51883), (465, 51715), (499, 51628), (504, 51613), (507, 51601), (521, 51571), (581, 51442), (603, 51400), (609, 51382), (623, 51379), (627, 51370), (648, 51352), (689, 51265), (756, 51130), (763, 51115), (773, 51094), (826, 51013), (827, 51010), (844, 50953), (845, 50947), (847, 50935), (859, 50884), (864, 50860), (874, 50821), (878, 50809), (880, 50806), (919, 50713), (925, 50698),

Gene: Adjutor_52 Start: 39669, Stop: 41612, Start Num: 58

Candidate Starts for Adjutor_52:

(Start: 58 @39669 has 58 MA's), (72, 39696), (Start: 95 @39768 has 1 MA's), (115, 39822), (138, 39882), (145, 39900), (150, 39909), (180, 39960), (210, 40002), (236, 40038), (274, 40125), (308, 40218), (316, 40233), (328, 40254), (399, 40356), (411, 40389), (424, 40413), (466, 40473), (495, 40560), (518, 40635), (557, 40725), (580, 40776), (582, 40779), (628, 40869), (649, 40887), (659, 40920), (691, 40974), (697, 40986), (705, 41004), (735, 41067), (779, 41151), (826, 41268), (836, 41316), (851, 41379), (870, 41463),

Gene: Aesir_39 Start: 25591, Stop: 27498, Start Num: 69

Candidate Starts for Aesir_39:

(19, 25417), (Start: 69 @25591 has 45 MA's), (85, 25654), (98, 25675), (116, 25729), (186, 25864), (218, 25906), (Start: 252 @25951 has 1 MA's), (314, 26125), (323, 26134), (374, 26224), (400, 26266), (406, 26281), (486, 26467), (534, 26602), (540, 26614), (556, 26647), (597, 26740), (649, 26776), (692, 26866), (705, 26893), (836, 27202), (837, 27205), (850, 27265), (871, 27355), (882, 27385), (895, 27427), (923, 27478),

Gene: Agamotto_38 Start: 29155, Stop: 27347, Start Num: 151

Candidate Starts for Agamotto_38:

(130, 29200), (Start: 151 @29155 has 19 MA's), (184, 29095), (231, 29032), (283, 28894), (348, 28777), (354, 28765), (404, 28681), (465, 28543), (524, 28357), (552, 28264), (558, 28243), (625, 28072), (630, 28057), (639, 28009), (686, 27940), (689, 27934), (693, 27919), (713, 27880), (735, 27871), (754, 27853), (772, 27817), (773, 27814), (782, 27796), (791, 27778), (792, 27775), (839, 27622), (847, 27589), (853, 27562), (858, 27541), (864, 27514), (889, 27424), (910, 27373),

Gene: Agatha_53 Start: 38842, Stop: 37364, Start Num: 198

Candidate Starts for Agatha_53:

(Start: 198 @38842 has 49 MA's), (255, 38755), (257, 38749), (290, 38647), (362, 38524), (364, 38521), (479, 38338), (481, 38332), (484, 38326), (512, 38248), (559, 38134), (572, 38107), (584, 38083), (625, 38023), (653, 37978), (663, 37957), (694, 37918), (702, 37900), (766, 37783), (793, 37735), (794, 37732), (805, 37717), (839, 37621), (845, 37600), (850, 37570),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 247

Candidate Starts for Agente005_41:

(Start: 247 @31381 has 139 MA's), (308, 31234), (Start: 310 @31228 has 1 MA's), (311, 31225), (389, 31111), (430, 31024), (457, 30997), (462, 30994), (499, 30898), (511, 30856), (584, 30685), (600, 30664), (625, 30637), (655, 30589), (701, 30529), (820, 30316), (826, 30298), (845, 30232), (846, 30226), (848, 30214), (872, 30118), (890, 30064), (891, 30061), (918, 30007),

Gene: AikoCarson_54 Start: 39107, Stop: 37629, Start Num: 198

Candidate Starts for AikoCarson_54:

(Start: 198 @39107 has 49 MA's), (255, 39020), (257, 39014), (290, 38912), (346, 38813), (358, 38795), (362, 38789), (368, 38780), (462, 38657), (479, 38603), (481, 38597), (484, 38591), (512, 38513), (559, 38399), (572, 38372), (584, 38348), (605, 38309), (648, 38267), (653, 38243), (663, 38222), (702, 38165), (766, 38048), (793, 38000), (794, 37997), (805, 37982), (839, 37886), (845, 37865), (850, 37835), (858, 37805), (902, 37667),

Gene: Aikoy_65 Start: 45786, Stop: 47714, Start Num: 58

Candidate Starts for Aikoy_65:

(Start: 58 @45786 has 58 MA's), (71, 45807), (78, 45837), (Start: 114 @45936 has 3 MA's), (138, 45999), (176, 46071), (182, 46080), (218, 46128), (316, 46344), (328, 46365), (342, 46386), (345, 46389), (355, 46401), (372, 46428), (436, 46551), (466, 46587), (489, 46659), (493, 46668), (504, 46701), (521, 46758), (527, 46770), (557, 46839), (561, 46848), (569, 46866), (580, 46890), (643, 46986), (649, 46998), (659, 47031), (686, 47073), (714, 47136), (767, 47241), (846, 47457), (850, 47481), (851, 47484), (862, 47526), (868, 47556), (875, 47580), (926, 47697),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 70

Candidate Starts for Ajin_42:

(16, 26401), (Start: 36 @26545 has 1 MA's), (68, 26635), (Start: 70 @26641 has 6 MA's), (116, 26788), (124, 26806), (127, 26815), (218, 26965), (280, 27091), (314, 27181), (323, 27190), (374, 27280), (400, 27322), (408, 27352), (470, 27484), (540, 27670), (550, 27688), (556, 27703), (580, 27760), (643, 27820), (678, 27892), (742, 28030), (775, 28096), (781, 28126), (817, 28204), (837, 28282), (850, 28342), (861, 28381), (871, 28432), (879, 28450), (924, 28558),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 247

Candidate Starts for Alakazam_40:

(Start: 247 @30804 has 139 MA's), (263, 30771), (Start: 310 @30651 has 1 MA's), (311, 30648), (346, 30588), (378, 30537), (396, 30516), (401, 30504), (457, 30411), (462, 30408), (509, 30276), (557, 30153), (584, 30096), (600, 30075), (625, 30048), (642, 30036), (651, 30015), (675, 29958), (685, 29937), (701, 29901), (706, 29889), (728, 29847), (743, 29820), (753, 29805), (789, 29742), (795, 29730), (836, 29634), (839, 29625), (844, 29610), (845, 29604), (846, 29598), (875, 29481), (882, 29463), (885, 29451), (900, 29409),

Gene: Albanese_29 Start: 22144, Stop: 23535, Start Num: 219

Candidate Starts for Albanese_29:

(Start: 219 @22144 has 74 MA's), (Start: 266 @22231 has 1 MA's), (Start: 289 @22303 has 1 MA's), (290, 22306), (317, 22369), (320, 22372), (329, 22390), (334, 22396), (359, 22423), (404, 22480), (424, 22531), (452, 22570), (470, 22606), (475, 22624), (489, 22660), (499, 22681), (505, 22699), (522, 22732), (537, 22771), (560, 22813), (576, 22840), (590, 22864), (611, 22900), (624, 22906), (651, 22939), (655, 22954), (659, 22963), (698, 23008), (712, 23041), (714, 23044), (772, 23128), (784, 23149), (791, 23161), (803, 23179), (836, 23269), (843, 23290), (844, 23293), (848, 23317), (849, 23326), (870, 23413), (903, 23503), (915, 23527),

Gene: Aledel_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for Aledel_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470, 22210), (475, 22228), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (741, 22690), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: Alephilan_60 Start: 40725, Stop: 42638, Start Num: 58

Candidate Starts for Alephilan_60:

(20, 40599), (23, 40608), (24, 40620), (35, 40653), (Start: 57 @40722 has 13 MA's), (Start: 58 @40725 has 58 MA's), (Start: 69 @40737 has 45 MA's), (81, 40785), (94, 40818), (158, 40977), (176, 41004), (182, 41013), (236, 41085), (284, 41202), (286, 41205), (311, 41268), (327, 41295), (367, 41358), (385, 41385), (463, 41514), (470, 41538), (484, 41580), (502, 41628), (508, 41649), (514, 41670), (534, 41727), (542, 41745), (557, 41781), (574, 41823), (604, 41883), (659, 41979), (660, 41982), (792, 42210), (826, 42300), (836, 42336), (838, 42342), (850, 42396), (861, 42435), (888, 42537),

(893, 42552), (902, 42573),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 247

Candidate Starts for AlexAdler_41:

(125, 31331), (Start: 247 @31109 has 139 MA's), (308, 30965), (Start: 310 @30959 has 1 MA's), (311, 30956), (389, 30842), (404, 30815), (430, 30755), (457, 30728), (462, 30725), (499, 30629), (511, 30587), (584, 30416), (600, 30395), (608, 30380), (625, 30368), (655, 30320), (701, 30260), (753, 30164), (789, 30101), (820, 30047), (845, 29963), (846, 29957), (848, 29945), (872, 29849), (890, 29795), (891, 29792), (900, 29768),

Gene: Alove_33 Start: 23258, Stop: 24685, Start Num: 222

Candidate Starts for Alove_33:

(192, 23216), (Start: 222 @23258 has 17 MA's), (377, 23576), (464, 23723), (470, 23744), (587, 24011), (624, 24059), (646, 24080), (686, 24137), (701, 24170), (717, 24206), (772, 24284), (784, 24305), (826, 24386), (827, 24389), (849, 24476), (853, 24488), (863, 24527), (870, 24563), (872, 24569), (876, 24581), (898, 24644),

Gene: Alyssamiracle_63 Start: 39828, Stop: 41744, Start Num: 57

Candidate Starts for Alyssamiracle_63:

(Start: 57 @39828 has 13 MA's), (Start: 58 @39831 has 58 MA's), (Start: 69 @39843 has 45 MA's), (81, 39891), (94, 39924), (158, 40083), (176, 40110), (182, 40119), (236, 40191), (286, 40311), (311, 40374), (367, 40464), (385, 40491), (463, 40620), (470, 40644), (484, 40686), (489, 40698), (495, 40713), (502, 40734), (508, 40755), (514, 40776), (534, 40833), (542, 40851), (557, 40887), (574, 40929), (604, 40989), (659, 41085), (660, 41088), (764, 41265), (792, 41316), (826, 41406), (836, 41442), (838, 41448), (850, 41502), (861, 41541), (888, 41643), (893, 41658), (902, 41679),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 247

Candidate Starts for Alyxandracam_41:

(14, 31770), (97, 31416), (125, 31341), (Start: 247 @31119 has 139 MA's), (308, 30975), (Start: 310 @30969 has 1 MA's), (311, 30966), (389, 30852), (404, 30825), (430, 30765), (457, 30738), (462, 30735), (499, 30639), (511, 30597), (584, 30426), (608, 30390), (625, 30378), (651, 30345), (655, 30330), (701, 30270), (753, 30174), (789, 30111), (820, 30057), (845, 29973), (846, 29967), (848, 29955), (872, 29859), (890, 29805), (891, 29802), (900, 29778),

Gene: Amok_54 Start: 39035, Stop: 37557, Start Num: 198

Candidate Starts for Amok_54:

(Start: 198 @39035 has 49 MA's), (255, 38948), (257, 38942), (290, 38840), (Start: 310 @38798 has 1 MA's), (346, 38741), (358, 38723), (362, 38717), (462, 38585), (479, 38531), (481, 38525), (484, 38519), (512, 38441), (559, 38327), (572, 38300), (584, 38276), (605, 38237), (648, 38195), (653, 38171), (663, 38150), (698, 38102), (702, 38093), (766, 37976), (793, 37928), (805, 37910), (839, 37814), (845, 37793), (850, 37763), (858, 37733), (902, 37595),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 132

Candidate Starts for Amore2_62:

(Start: 132 @52713 has 3 MA's), (137, 52701), (163, 52650), (167, 52644), (212, 52587), (288, 52446), (306, 52404), (Start: 310 @52392 has 1 MA's), (329, 52356), (330, 52353), (346, 52326), (371, 52290), (384, 52278), (395, 52263), (453, 52155), (499, 52050), (504, 52035), (557, 51912), (581, 51864), (594, 51840), (603, 51822), (648, 51774), (665, 51723), (689, 51687), (697, 51669), (756, 51552), (787, 51501), (819, 51459), (836, 51399), (847, 51357), (859, 51306), (864, 51282), (925, 51120), (931, 51099),

Gene: Anakin_40 Start: 25911, Stop: 27818, Start Num: 69

Candidate Starts for Anakin_40:

(Start: 69 @25911 has 45 MA's), (85, 25974), (98, 25995), (116, 26049), (218, 26226), (Start: 252 @26271 has 1 MA's), (314, 26445), (323, 26454), (374, 26544), (406, 26601), (486, 26787), (534, 26922), (540, 26934), (556, 26967), (649, 27096), (705, 27213), (749, 27288), (836, 27522), (837, 27525), (850, 27585), (871, 27675), (882, 27705), (895, 27747), (923, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 273

Candidate Starts for Anamika_57:

(94, 53235), (142, 53106), (191, 53019), (Start: 194 @53016 has 3 MA's), (Start: 273 @52887 has 28 MA's), (288, 52842), (329, 52752), (330, 52749), (333, 52743), (346, 52722), (395, 52659), (453, 52551), (465, 52533), (499, 52446), (504, 52431), (521, 52389), (557, 52308), (581, 52260), (603, 52218), (609, 52200), (623, 52197), (648, 52170), (665, 52119), (689, 52083), (711, 52032), (756, 51948), (765, 51927), (844, 51771), (845, 51765), (847, 51753), (878, 51627), (925, 51513),

Gene: AndPeggy_50 Start: 38315, Stop: 36837, Start Num: 198

Candidate Starts for AndPeggy_50:

(Start: 198 @38315 has 49 MA's), (257, 38222), (Start: 266 @38195 has 1 MA's), (290, 38120), (Start: 310 @38078 has 1 MA's), (362, 37997), (462, 37865), (479, 37811), (484, 37799), (512, 37721), (559, 37607), (572, 37580), (584, 37556), (605, 37517), (653, 37451), (663, 37430), (702, 37373), (766, 37256), (793, 37208), (805, 37190), (839, 37094), (845, 37073), (850, 37043),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 253

Candidate Starts for Andromedas_40:

(Start: 253 @31099 has 24 MA's), (265, 31069), (Start: 266 @31063 has 1 MA's), (276, 31030), (389, 30838), (404, 30811), (430, 30751), (457, 30724), (462, 30721), (475, 30679), (499, 30625), (511, 30583), (557, 30469), (584, 30412), (600, 30391), (608, 30376), (625, 30364), (642, 30352), (645, 30349), (651, 30331), (685, 30250), (701, 30214), (728, 30160), (750, 30118), (768, 30088), (784, 30064), (786, 30058), (816, 30016), (836, 29947), (844, 29923), (845, 29917), (846, 29911), (848, 29899), (872, 29803), (875, 29794), (882, 29776), (885, 29764), (902, 29719),

Gene: Anilorac_40 Start: 31339, Stop: 29834, Start Num: 166

Candidate Starts for Anilorac_40:

(154, 31363), (Start: 166 @31339 has 1 MA's), (185, 31318), (231, 31255), (Start: 247 @31225 has 139 MA's), (308, 31078), (Start: 310 @31072 has 1 MA's), (311, 31069), (389, 30955), (430, 30868), (457, 30841), (462, 30838), (499, 30742), (511, 30700), (584, 30529), (600, 30508), (625, 30481), (655, 30433), (701, 30373), (820, 30160), (826, 30142), (844, 30082), (845, 30076), (846, 30070), (848, 30058), (872, 29962), (890, 29908), (891, 29905), (918, 29851),

Gene: AnnaSerena_40 Start: 25946, Stop: 27853, Start Num: 69

Candidate Starts for AnnaSerena_40:

(Start: 69 @25946 has 45 MA's), (85, 26009), (98, 26030), (116, 26084), (218, 26261), (Start: 252 @26306 has 1 MA's), (314, 26480), (323, 26489), (374, 26579), (406, 26636), (486, 26822), (534, 26957), (540, 26969), (556, 27002), (649, 27131), (705, 27248), (749, 27323), (836, 27557), (837, 27560), (850, 27620), (871, 27710), (882, 27740), (895, 27782), (923, 27833),

Gene: AnnabelLee_38 Start: 26373, Stop: 24541, Start Num: 151

Candidate Starts for AnnabelLee_38:

(Start: 151 @26373 has 19 MA's), (184, 26316), (283, 26115), (354, 25980), (423, 25845), (437, 25818), (465, 25761), (468, 25746), (487, 25692), (516, 25596), (518, 25590), (524, 25575), (539, 25530), (552, 25482), (558, 25461), (566, 25443), (588, 25392), (619, 25299), (625, 25287), (639, 25224), (676, 25152), (704, 25092), (713, 25071), (773, 25005), (782, 24987), (791, 24969), (792, 24966), (811, 24930), (836, 24822), (839, 24813), (853, 24753), (864, 24705),

Gene: Annapurna_40 Start: 25220, Stop: 27127, Start Num: 69

Candidate Starts for Annapurna_40:

(19, 25046), (Start: 69 @25220 has 45 MA's), (85, 25283), (98, 25304), (116, 25358), (186, 25493), (218, 25535), (Start: 252 @25580 has 1 MA's), (314, 25754), (323, 25763), (374, 25853), (400, 25895), (406, 25910), (486, 26096), (534, 26231), (540, 26243), (556, 26276), (649, 26405), (705, 26522), (826, 26795), (837, 26834), (850, 26894), (871, 26984), (882, 27014), (895, 27056), (923, 27107),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 247

Candidate Starts for Antoinette_41:

(125, 31331), (Start: 247 @31109 has 139 MA's), (308, 30965), (Start: 310 @30959 has 1 MA's), (311, 30956), (389, 30842), (404, 30815), (430, 30755), (457, 30728), (462, 30725), (499, 30629), (511, 30587), (584, 30416), (600, 30395), (608, 30380), (625, 30368), (655, 30320), (701, 30260), (753, 30164), (789, 30101), (820, 30047), (845, 29963), (846, 29957), (848, 29945), (866, 29870), (872, 29849), (890, 29795), (891, 29792), (900, 29768),

Gene: Apeppi_55 Start: 40047, Stop: 41966, Start Num: 58

Candidate Starts for Apeppi_55:

(21, 39927), (25, 39948), (31, 39969), (45, 39999), (Start: 50 @40032 has 1 MA's), (Start: 57 @40044 has 13 MA's), (Start: 58 @40047 has 58 MA's), (Start: 69 @40062 has 45 MA's), (73, 40077), (81, 40110), (94, 40143), (96, 40146), (Start: 114 @40194 has 3 MA's), (120, 40212), (158, 40302), (168, 40320), (176, 40329), (182, 40338), (236, 40410), (286, 40530), (287, 40533), (311, 40593), (324, 40611), (367, 40683), (385, 40710), (466, 40845), (470, 40863), (484, 40905), (493, 40926), (495, 40932), (508, 40974), (514, 40995), (521, 41016), (534, 41052), (574, 41151), (578, 41160), (604, 41211), (659, 41307), (660, 41310), (729, 41421), (764, 41487), (779, 41511), (792, 41538), (847, 41706), (850, 41724), (856, 41748), (861, 41763), (862, 41769), (870, 41811), (875, 41826), (888, 41865), (893, 41880), (902, 41901), (929, 41958),

Gene: Apiary_72 Start: 53146, Stop: 51110, Start Num: 40

Candidate Starts for Apiary_72:

(13, 53314), (Start: 40 @53146 has 6 MA's), (Start: 61 @53080 has 1 MA's), (76, 53038), (215, 52753), (260, 52696), (274, 52645), (280, 52630), (314, 52540), (323, 52528), (374, 52435), (418, 52363), (466, 52294), (489, 52222), (508, 52165), (580, 51985), (593, 51961), (620, 51898), (649, 51862), (691, 51775), (749, 51643), (769, 51604), (771, 51601), (782, 51556), (836, 51409), (851, 51346), (862, 51304), (870, 51265), (881, 51241),

Gene: ApoKipo_99 Start: 56676, Stop: 58337, Start Num: 159

Candidate Starts for ApoKipo_99:

(Start: 159 @56676 has 9 MA's), (205, 56736), (240, 56796), (257, 56823), (322, 56997), (327, 57009), (400, 57129), (412, 57165), (424, 57189), (452, 57234), (468, 57270), (470, 57276), (487, 57324), (504, 57366), (545, 57486), (578, 57549), (599, 57582), (622, 57612), (641, 57630), (644, 57633), (655, 57666), (688, 57699), (712, 57756), (751, 57825), (782, 57882), (819, 57954), (827, 57981), (835, 58008), (853, 58083), (860, 58110), (870, 58158), (882, 58191), (884, 58200), (885, 58203), (896, 58236), (924, 58290), (927, 58302), (928, 58305), (930, 58311),

Gene: AppleCider_29 Start: 22130, Stop: 23524, Start Num: 219

Candidate Starts for AppleCider_29:

(Start: 219 @22130 has 74 MA's), (254, 22187), (Start: 289 @22292 has 1 MA's), (329, 22379), (401, 22463), (403, 22466), (404, 22469), (452, 22559), (470, 22595), (473, 22604), (499, 22670), (505, 22688), (522, 22721), (529, 22733), (560, 22802), (576, 22829), (590, 22853), (611, 22889), (624, 22895), (651, 22928), (655, 22943), (659, 22952), (722, 23042), (768, 23111), (784, 23138), (793, 23156), (803, 23168), (836, 23258), (838, 23264), (841, 23273), (843, 23279), (849, 23315), (870, 23402), (887, 23453), (903, 23492), (915, 23516),

Gene: Araceli_42 Start: 30875, Stop: 32269, Start Num: 224

Candidate Starts for Araceli_42:

(Start: 224 @30875 has 13 MA's), (Start: 228 @30878 has 3 MA's), (265, 30953), (270, 30977), (284, 31007), (286, 31010), (Start: 289 @31022 has 1 MA's), (303, 31055), (341, 31112), (363, 31136), (401, 31181), (404, 31187), (430, 31247), (449, 31268), (473, 31322), (510, 31421), (523, 31448), (528, 31457), (587, 31583), (624, 31631), (646, 31652), (651, 31664), (655, 31679), (686, 31709), (701, 31742), (705, 31751), (726, 31793), (770, 31859), (772, 31862), (784, 31883), (793, 31901), (805, 31919), (827, 31973), (836, 32003), (849, 32060), (850, 32063), (863, 32111), (876, 32165), (901, 32234), (909, 32252),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for AranulaLuti_40:

(5, 31619), (14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Archimedes_37 Start: 33084, Stop: 31684, Start Num: 224

Candidate Starts for Archimedes_37:

(Start: 224 @33084 has 13 MA's), (Start: 247 @33042 has 139 MA's), (265, 33006), (268, 32988), (270, 32982), (284, 32952), (Start: 289 @32937 has 1 MA's), (290, 32934), (329, 32850), (472, 32628), (475, 32616), (523, 32502), (587, 32376), (597, 32364), (607, 32343), (608, 32340), (624, 32328), (651, 32295), (655, 32280), (683, 32256), (701, 32220), (705, 32211), (768, 32112), (803, 32055), (811, 32043), (814, 32037), (841, 31950), (846, 31929), (849, 31908), (872, 31815), (917, 31689),

Gene: Arti_71 Start: 55496, Stop: 53430, Start Num: 38

Candidate Starts for Arti_71:

(9, 55700), (10, 55688), (12, 55670), (Start: 38 @55496 has 35 MA's), (Start: 82 @55358 has 2 MA's), (87, 55334), (182, 55130), (215, 55085), (274, 54977), (321, 54863), (323, 54860), (374, 54770), (376, 54767), (413, 54707), (484, 54569), (492, 54551), (500, 54527), (542, 54404), (580, 54299), (649, 54173), (667, 54119), (731, 53993), (735, 53984), (748, 53960), (779, 53888), (782, 53882), (796, 53852), (820, 53795), (836, 53735), (851, 53672), (870, 53591),

Gene: Artiphact_40 Start: 25935, Stop: 27842, Start Num: 69

Candidate Starts for Artiphact_40:

(Start: 69 @25935 has 45 MA's), (85, 25998), (98, 26019), (116, 26073), (218, 26250), (Start: 252 @26295 has 1 MA's), (314, 26469), (323, 26478), (374, 26568), (406, 26625), (486, 26811), (534, 26946), (540, 26958), (556, 26991), (649, 27120), (705, 27237), (749, 27312), (836, 27546), (837, 27549), (850, 27609), (871, 27699), (882, 27729), (895, 27771), (923, 27822),

Gene: Artu_93 Start: 77224, Stop: 79068, Start Num: 148

Candidate Starts for Artu_93:

(Start: 148 @77224 has 12 MA's), (280, 77497), (354, 77605), (396, 77671), (423, 77740), (427, 77749), (465, 77824), (567, 78133), (586, 78178), (602, 78217), (610, 78238), (625, 78283), (638, 78340), (639, 78346), (651, 78379), (653, 78391), (659, 78403), (735, 78520), (739, 78526), (791, 78616), (808, 78649), (832, 78733), (851, 78826), (857, 78850), (908, 79018), (910, 79021),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for Asta_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (498, 30339), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (625, 30075), (655, 30027), (701, 29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (866,

29577), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: Astralis_60 Start: 39409, Stop: 41322, Start Num: 58

Candidate Starts for Astralis_60:

(Start: 57 @39406 has 13 MA's), (Start: 58 @39409 has 58 MA's), (Start: 69 @39421 has 45 MA's), (81, 39469), (94, 39502), (158, 39661), (176, 39688), (182, 39697), (236, 39769), (286, 39889), (311, 39952), (367, 40042), (385, 40069), (463, 40198), (470, 40222), (484, 40264), (489, 40276), (495, 40291), (502, 40312), (508, 40333), (514, 40354), (534, 40411), (542, 40429), (557, 40465), (574, 40507), (604, 40567), (659, 40663), (660, 40666), (764, 40843), (792, 40894), (826, 40984), (836, 41020), (838, 41026), (850, 41080), (861, 41119), (888, 41221), (893, 41236), (902, 41257),

Gene: Atuin_95 Start: 80621, Stop: 82477, Start Num: 148

Candidate Starts for Atuin_95:

(Start: 148 @80621 has 12 MA's), (280, 80894), (354, 80999), (415, 81122), (423, 81134), (427, 81143), (470, 81239), (498, 81314), (516, 81374), (567, 81527), (586, 81572), (610, 81632), (625, 81677), (638, 81734), (639, 81740), (651, 81773), (653, 81785), (659, 81797), (735, 81914), (737, 81917), (773, 81974), (791, 82010), (796, 82022), (808, 82043), (832, 82127), (851, 82220), (857, 82244), (908, 82412), (910, 82415),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for Aubergine_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (655, 30027), (701, 29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: Audell_37 Start: 28742, Stop: 26934, Start Num: 151

Candidate Starts for Audell_37:

(Start: 151 @28742 has 19 MA's), (184, 28682), (231, 28619), (281, 28487), (283, 28481), (348, 28364), (354, 28352), (404, 28268), (465, 28130), (524, 27944), (552, 27851), (558, 27830), (563, 27818), (625, 27659), (630, 27644), (636, 27614), (639, 27596), (686, 27527), (689, 27521), (693, 27506), (708, 27479), (713, 27467), (735, 27458), (754, 27440), (772, 27404), (773, 27401), (782, 27383), (791, 27365), (792, 27362), (839, 27209), (847, 27176), (853, 27149), (858, 27128), (864, 27101), (889, 27011), (910, 26960),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 132

Candidate Starts for Austin_61:

(Start: 132 @52711 has 3 MA's), (137, 52699), (163, 52648), (167, 52642), (212, 52585), (288, 52444), (306, 52402), (Start: 310 @52390 has 1 MA's), (329, 52354), (330, 52351), (346, 52324), (371, 52288), (384, 52276), (395, 52261), (453, 52153), (499, 52048), (504, 52033), (557, 51910), (581, 51862), (594, 51838), (603, 51820), (648, 51772), (665, 51721), (689, 51685), (697, 51667), (756, 51550), (787, 51499), (819, 51457), (836, 51397), (847, 51355), (859, 51304), (864, 51280), (925, 51118), (931, 51097),

Gene: AustinPowers_26 Start: 21746, Stop: 23140, Start Num: 219

Candidate Starts for AustinPowers_26:

(Start: 219 @21746 has 74 MA's), (254, 21803), (283, 21890), (Start: 289 @21908 has 1 MA's), (290, 21911), (329, 21995), (359, 22028), (401, 22079), (404, 22085), (430, 22145), (452, 22175), (470, 22211), (475, 22229), (489, 22265), (499, 22286), (505, 22304), (506, 22310), (522, 22337), (560, 22418), (576, 22445), (590, 22469), (602, 22484), (624, 22511), (651, 22544), (655, 22559), (768, 22727), (784, 22754), (791, 22766), (803, 22784), (836, 22874), (838, 22880), (843, 22895), (844, 22898), (864, 22991), (870, 23018), (889, 23075), (903, 23108), (915, 23132),

Gene: Avian_59 Start: 39556, Stop: 41472, Start Num: 57

Candidate Starts for Avian_59:

(Start: 57 @39556 has 13 MA's), (Start: 58 @39559 has 58 MA's), (Start: 69 @39571 has 45 MA's), (81, 39619), (94, 39652), (158, 39811), (176, 39838), (182, 39847), (236, 39919), (286, 40039), (311, 40102), (367, 40192), (385, 40219), (463, 40348), (470, 40372), (484, 40414), (489, 40426), (495, 40441), (502, 40462), (508, 40483), (514, 40504), (534, 40561), (542, 40579), (557, 40615), (574, 40657), (604, 40717), (659, 40813), (660, 40816), (764, 40993), (792, 41044), (826, 41134), (836, 41170), (838, 41176), (850, 41230), (861, 41269), (888, 41371), (893, 41386), (902, 41407),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 247

Candidate Starts for AxiPup_41:

(14, 31739), (97, 31385), (125, 31310), (Start: 247 @31088 has 139 MA's), (308, 30944), (Start: 310 @30938 has 1 MA's), (311, 30935), (389, 30821), (404, 30794), (430, 30734), (457, 30707), (462, 30704), (499, 30608), (511, 30566), (584, 30395), (600, 30374), (625, 30347), (655, 30299), (701, 30239), (789, 30080), (820, 30026), (845, 29942), (846, 29936), (848, 29924), (872, 29828), (890, 29774), (891, 29771), (900, 29747),

Gene: Axym_52 Start: 38739, Stop: 37261, Start Num: 198

Candidate Starts for Axym_52:

(Start: 198 @38739 has 49 MA's), (255, 38652), (257, 38646), (283, 38565), (290, 38544), (362, 38421), (364, 38418), (479, 38235), (481, 38229), (484, 38223), (512, 38145), (559, 38031), (572, 38004), (584, 37980), (625, 37920), (653, 37875), (663, 37854), (694, 37815), (702, 37797), (766, 37680), (793, 37632), (794, 37629), (805, 37614), (839, 37518), (845, 37497), (850, 37467),

Gene: AyoTeo_35 Start: 23382, Stop: 24809, Start Num: 222

Candidate Starts for AyoTeo_35:

(192, 23340), (Start: 222 @23382 has 17 MA's), (377, 23700), (430, 23802), (464, 23847), (470, 23868), (587, 24135), (624, 24183), (646, 24204), (686, 24261), (701, 24294), (717, 24330), (772, 24408), (784, 24429), (826, 24510), (827, 24513), (849, 24600), (853, 24612), (863, 24651), (870, 24687), (876, 24705), (898, 24768),

Gene: Azira_49 Start: 37909, Stop: 36419, Start Num: 198

Candidate Starts for Azira_49:

(Start: 198 @37909 has 49 MA's), (257, 37819), (Start: 266 @37792 has 1 MA's), (279, 37750), (299, 37702), (Start: 310 @37675 has 1 MA's), (362, 37594), (364, 37591), (368, 37585), (389, 37564), (417, 37498), (479, 37408), (484, 37396), (509, 37333), (512, 37318), (518, 37303), (569, 37186), (572, 37177), (611, 37099), (648, 37072), (651, 37060), (653, 37048), (685, 37009), (694, 36988), (695, 36985), (702, 36970), (733, 36898), (768, 36829), (793, 36784), (819, 36739), (823, 36724), (831, 36694), (839, 36670), (850, 36619), (858, 36589), (876, 36523), (884, 36499), (895, 36466), (913, 36430),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 247

Candidate Starts for Baines_40:

(125, 31031), (Start: 247 @30809 has 139 MA's), (308, 30665), (Start: 310 @30659 has 1 MA's), (311, 30656), (389, 30542), (404, 30515), (430, 30455), (457, 30428), (462, 30425), (499, 30329), (511, 30287), (584, 30116), (600, 30095), (608, 30080), (625, 30068), (655, 30020), (701, 29960), (753, 29864), (789, 29801), (820, 29747), (845, 29663), (846, 29657), (848, 29645), (866, 29570), (872, 29549), (890, 29495), (891, 29492), (900, 29468),

Gene: Balloona_55 Start: 40742, Stop: 39264, Start Num: 198

Candidate Starts for Balloona_55:

(139, 40820), (167, 40769), (170, 40766), (Start: 198 @40742 has 49 MA's), (Start: 241 @40679 has 2 MA's), (255, 40658), (257, 40652), (Start: 266 @40625 has 1 MA's), (283, 40571), (299, 40535), (306, 40520), (362, 40424), (368, 40415), (389, 40394), (417, 40328), (462, 40292), (479, 40238), (481, 40232), (484, 40226), (512, 40148), (518, 40133), (559, 40034), (597, 39959), (608, 39935), (625, 39923), (648, 39902), (652, 39887), (653, 39878), (663, 39857), (694, 39818), (698, 39809), (705, 39794), (733, 39743), (770, 39671), (793, 39629), (794, 39626), (805, 39611), (839, 39515), (850, 39464), (858, 39434), (866, 39401), (884, 39344), (889, 39329),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 247

Candidate Starts for Balsa_40:

(Start: 166 @31372 has 1 MA's), (231, 31288), (Start: 247 @31258 has 139 MA's), (308, 31111), (Start: 310 @31105 has 1 MA's), (311, 31102), (389, 30988), (404, 30961), (430, 30901), (457, 30874), (462, 30871), (499, 30775), (511, 30733), (584, 30562), (600, 30541), (625, 30514), (701, 30406), (753, 30310), (820, 30193), (826, 30175), (845, 30109), (846, 30103), (872, 29995), (890, 29941), (891, 29938), (900, 29914), (918, 29884),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Bandik_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (556, 30481), (584, 30421), (608, 30385), (625, 30373), (651, 30340), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Barbochs_57 Start: 51736, Stop: 50204, Start Num: 221

Candidate Starts for Barbochs_57:

(94, 51991), (112, 51940), (129, 51889), (153, 51835), (169, 51805), (Start: 194 @51772 has 3 MA's), (Start: 203 @51763 has 1 MA's), (Start: 221 @51736 has 28 MA's), (288, 51568), (306, 51526), (329, 51478), (334, 51466), (342, 51454), (346, 51448), (362, 51427), (384, 51400), (465, 51259), (499, 51172), (504, 51157), (507, 51145), (521, 51115), (542, 51064), (554, 51037), (581, 50986), (594, 50962), (603, 50944), (609, 50926), (623, 50923), (648, 50896), (662, 50854), (689, 50809), (756, 50674), (763, 50659), (773, 50638), (819, 50581), (826, 50557), (844, 50497), (845, 50491), (846, 50485), (847, 50479), (859, 50428), (864, 50404), (874, 50365), (878, 50353), (880, 50350), (919, 50257), (925, 50242), (931, 50221),

Gene: Barnyard_65 Start: 45144, Stop: 47105, Start Num: 51

Candidate Starts for Barnyard_65:

(Start: 51 @45144 has 1 MA's), (65, 45171), (Start: 69 @45177 has 45 MA's), (71, 45183), (88, 45249), (103, 45282), (107, 45297), (Start: 114 @45312 has 3 MA's), (116, 45318), (127, 45345), (143, 45387), (Start: 171 @45447 has 2 MA's), (186, 45468), (211, 45504), (218, 45513), (260, 45576), (Start: 266 @45597 has 1 MA's), (270, 45615), (275, 45630), (278, 45636), (286, 45660), (316, 45735), (321, 45741), (428, 45924), (434, 45936), (455, 45954), (463, 45969), (489, 46047), (542, 46200), (554, 46233), (609, 46368), (628, 46395), (643, 46401), (647, 46407), (665, 46461), (697, 46527), (698, 46530), (729, 46572), (782, 46656), (798, 46689), (835, 46800), (836, 46803), (837, 46806), (839, 46812), (847, 46845), (851, 46866), (852, 46869), (862, 46908), (875, 46962), (887, 46998), (890, 47007), (916, 47064), (925, 47082),

Gene: BaronJohn_41 Start: 29646, Stop: 28255, Start Num: 265

Candidate Starts for BaronJohn_41:

(223, 29724), (Start: 250 @29682 has 24 MA's), (263, 29652), (265, 29646), (Start: 310 @29532 has 1 MA's), (311, 29529), (312, 29526), (457, 29292), (462, 29289), (557, 29034), (582, 28983), (584, 28977), (625, 28929), (651, 28896), (701, 28782), (705, 28773), (728, 28728), (732, 28722), (746, 28695), (753, 28686), (789, 28623), (826, 28551), (836, 28515), (839, 28506), (844, 28491), (845,

28485), (848, 28467), (858, 28425), (875, 28362), (900, 28290),

Gene: Bavilard_56 Start: 40156, Stop: 38678, Start Num: 198

Candidate Starts for Bavilard_56:

(Start: 198 @40156 has 49 MA's), (Start: 241 @40093 has 2 MA's), (255, 40072), (257, 40066), (Start: 266 @40039 has 1 MA's), (283, 39985), (299, 39949), (306, 39934), (362, 39838), (368, 39829), (389, 39808), (417, 39742), (462, 39706), (479, 39652), (481, 39646), (484, 39640), (512, 39562), (518, 39547), (559, 39448), (597, 39373), (608, 39349), (625, 39337), (648, 39316), (652, 39301), (653, 39292), (663, 39271), (694, 39232), (698, 39223), (733, 39157), (770, 39085), (793, 39043), (794, 39040), (805, 39025), (839, 38929), (850, 38878), (858, 38848), (866, 38815), (884, 38758), (889, 38743),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for BeautPeep30_41:

(125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (499, 30640), (511, 30598), (580, 30436), (584, 30427), (600, 30406), (608, 30391), (625, 30379), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 221

Candidate Starts for Beaver_62:

(94, 53761), (112, 53710), (129, 53659), (153, 53605), (169, 53575), (Start: 194 @53542 has 3 MA's), (Start: 203 @53533 has 1 MA's), (Start: 221 @53506 has 28 MA's), (288, 53338), (306, 53296), (329, 53248), (334, 53236), (342, 53224), (346, 53218), (362, 53197), (384, 53170), (465, 53029), (499, 52942), (504, 52927), (507, 52915), (521, 52885), (542, 52834), (554, 52807), (581, 52756), (603, 52714), (609, 52696), (623, 52693), (648, 52666), (662, 52624), (689, 52579), (697, 52561), (756, 52444), (763, 52429), (773, 52408), (819, 52351), (826, 52327), (844, 52267), (845, 52261), (846, 52255), (847, 52249), (859, 52198), (864, 52174), (874, 52135), (878, 52123), (919, 52027), (925, 52012), (931, 51991),

Gene: Beckerton_60 Start: 46572, Stop: 48629, Start Num: 58

Candidate Starts for Beckerton_60:

(Start: 58 @46572 has 58 MA's), (79, 46632), (80, 46635), (Start: 114 @46728 has 3 MA's), (119, 46740), (127, 46761), (186, 46884), (188, 46887), (195, 46896), (218, 46929), (226, 46950), (Start: 247 @46998 has 139 MA's), (Start: 266 @47040 has 1 MA's), (286, 47103), (292, 47124), (294, 47130), (321, 47184), (428, 47370), (434, 47382), (455, 47400), (463, 47415), (466, 47421), (580, 47739), (582, 47742), (604, 47787), (643, 47838), (649, 47850), (691, 47940), (697, 47952), (711, 47985), (723, 48009), (725, 48018), (782, 48108), (798, 48141), (835, 48252), (836, 48255), (837, 48258), (838, 48261), (847, 48297), (850, 48315), (865, 48381), (870, 48399), (933, 48576),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 247

Candidate Starts for BeeBee8_41:

(165, 31528), (Start: 166 @31525 has 1 MA's), (168, 31522), (Start: 247 @31426 has 139 MA's), (308, 31279), (Start: 310 @31273 has 1 MA's), (311, 31270), (389, 31156), (404, 31129), (430, 31069), (457, 31042), (462, 31039), (499, 30943), (511, 30901), (584, 30730), (600, 30709), (625, 30682), (655, 30634), (701, 30574), (753, 30478), (820, 30361), (826, 30343), (845, 30277), (846, 30271), (872, 30163), (890, 30109), (891, 30106), (900, 30082), (918, 30052),

Gene: Beethoven_29 Start: 22100, Stop: 23500, Start Num: 219

Candidate Starts for Beethoven_29:

(Start: 219 @22100 has 74 MA's), (254, 22163), (Start: 289 @22268 has 1 MA's), (290, 22271), (329, 22355), (359, 22388), (401, 22439), (404, 22445), (449, 22526), (451, 22529), (452, 22535), (470,

22571), (475, 22589), (476, 22592), (489, 22625), (499, 22646), (505, 22664), (522, 22697), (560, 22778), (576, 22805), (597, 22835), (602, 22844), (624, 22871), (651, 22904), (655, 22919), (698, 22973), (707, 22994), (712, 23006), (722, 23018), (838, 23240), (841, 23249), (843, 23255), (849, 23291), (864, 23351), (870, 23378), (903, 23468),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 117

Candidate Starts for Benczkowski14_57:

(Start: 117 @53319 has 9 MA's), (Start: 121 @53307 has 2 MA's), (227, 53124), (Start: 273 @53034 has 28 MA's), (277, 53025), (288, 52989), (297, 52965), (301, 52956), (306, 52947), (329, 52899), (342, 52875), (395, 52803), (396, 52800), (404, 52782), (422, 52743), (485, 52614), (504, 52575), (505, 52572), (511, 52554), (517, 52545), (521, 52533), (541, 52485), (557, 52452), (581, 52404), (594, 52380), (648, 52314), (689, 52215), (736, 52116), (741, 52107), (754, 52083), (756, 52080), (819, 51987), (826, 51963), (827, 51960), (844, 51903), (847, 51885), (874, 51768), (875, 51765), (880, 51753), (925, 51654), (931, 51633),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 247

Candidate Starts for Benjalauren_41:

(14, 31470), (97, 31116), (125, 31041), (Start: 247 @30819 has 139 MA's), (308, 30675), (Start: 310 @30669 has 1 MA's), (311, 30666), (389, 30552), (404, 30525), (430, 30465), (457, 30438), (462, 30435), (499, 30339), (511, 30297), (584, 30126), (600, 30105), (608, 30090), (655, 30030), (701, 29970), (753, 29874), (789, 29811), (820, 29757), (845, 29673), (846, 29667), (848, 29655), (872, 29559), (890, 29505), (891, 29502), (900, 29478),

Gene: Bennie_25 Start: 20566, Stop: 21960, Start Num: 219

Candidate Starts for Bennie_25:

(Start: 219 @20566 has 74 MA's), (254, 20623), (Start: 289 @20728 has 1 MA's), (290, 20731), (329, 20815), (359, 20848), (401, 20899), (404, 20905), (452, 20995), (470, 21031), (475, 21049), (476, 21052), (489, 21085), (499, 21106), (560, 21238), (576, 21265), (597, 21295), (602, 21304), (624, 21331), (651, 21364), (655, 21379), (686, 21406), (698, 21433), (714, 21469), (741, 21511), (784, 21574), (793, 21592), (827, 21664), (834, 21688), (836, 21694), (837, 21697), (843, 21715), (844, 21718), (848, 21742), (849, 21751), (870, 21838), (887, 21889), (903, 21928),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 273

Candidate Starts for BenoitCattle_59:

(94, 52398), (112, 52347), (129, 52296), (153, 52242), (169, 52212), (Start: 194 @52179 has 3 MA's), (Start: 203 @52170 has 1 MA's), (Start: 221 @52143 has 28 MA's), (Start: 273 @52020 has 28 MA's), (288, 51975), (306, 51933), (329, 51885), (330, 51882), (333, 51876), (334, 51873), (342, 51861), (346, 51855), (384, 51807), (387, 51804), (453, 51684), (465, 51666), (485, 51603), (499, 51579), (504, 51564), (521, 51522), (542, 51471), (581, 51393), (609, 51333), (623, 51330), (627, 51321), (648, 51303), (662, 51261), (689, 51216), (756, 51081), (763, 51066), (773, 51045), (826, 50964), (827, 50961), (844, 50904), (845, 50898), (847, 50886), (859, 50835), (864, 50811), (874, 50772), (878, 50760), (919, 50664), (925, 50649),

Gene: Benry_32 Start: 21495, Stop: 22922, Start Num: 220

Candidate Starts for Benry_32:

(Start: 220 @21495 has 2 MA's), (401, 21849), (403, 21852), (409, 21873), (464, 21960), (476, 22002), (608, 22284), (624, 22296), (646, 22317), (655, 22344), (685, 22371), (686, 22374), (698, 22401), (701, 22407), (717, 22443), (784, 22542), (819, 22605), (826, 22623), (827, 22626), (844, 22680), (849, 22713), (853, 22725), (863, 22764), (870, 22800), (872, 22806), (876, 22818), (887, 22851), (898, 22881),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 273

Candidate Starts for Berries_57:

(94, 53207), (142, 53078), (Start: 194 @52988 has 3 MA's), (Start: 273 @52859 has 28 MA's), (288, 52814), (329, 52724), (330, 52721), (333, 52715), (346, 52694), (395, 52631), (453, 52523), (465, 52505), (499, 52418), (504, 52403), (521, 52361), (557, 52280), (581, 52232), (603, 52190), (609, 52172), (623, 52169), (648, 52142), (665, 52091), (689, 52055), (711, 52004), (756, 51920), (765, 51899), (844, 51743), (845, 51737), (847, 51725), (878, 51599), (925, 51485),

Gene: Beyoncage_50 Start: 36615, Stop: 38669, Start Num: 69

Candidate Starts for Beyoncage_50:

(Start: 69 @36615 has 45 MA's), (74, 36639), (97, 36702), (128, 36786), (143, 36828), (Start: 273 @37050 has 28 MA's), (286, 37086), (318, 37161), (339, 37200), (369, 37242), (390, 37260), (399, 37281), (405, 37293), (434, 37353), (444, 37368), (463, 37386), (489, 37464), (495, 37479), (496, 37482), (508, 37521), (514, 37542), (556, 37644), (580, 37701), (591, 37722), (593, 37725), (597, 37737), (613, 37785), (614, 37791), (632, 37839), (637, 37872), (643, 37896), (650, 37914), (660, 37944), (714, 38067), (723, 38100), (727, 38112), (735, 38127), (757, 38166), (779, 38211), (792, 38238), (824, 38322), (842, 38385), (850, 38427), (853, 38436), (855, 38445), (865, 38493), (868, 38502), (870, 38514), (875, 38529), (889, 38571),

Gene: BiPauneto_74 Start: 54628, Stop: 52772, Start Num: 114

Candidate Starts for BiPauneto_74:

(10, 55045), (12, 55027), (18, 54952), (Start: 38 @54853 has 35 MA's), (Start: 114 @54628 has 3 MA's), (274, 54334), (286, 54301), (292, 54280), (316, 54226), (321, 54220), (323, 54217), (374, 54127), (376, 54124), (413, 54064), (492, 53908), (542, 53761), (580, 53653), (593, 53629), (649, 53527), (667, 53473), (683, 53458), (718, 53377), (735, 53338), (767, 53275), (779, 53236), (782, 53230), (796, 53200), (836, 53083), (851, 53020), (865, 52957), (870, 52939), (899, 52855),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 273

Candidate Starts for Bianmat_57:

(94, 53247), (142, 53118), (Start: 194 @53028 has 3 MA's), (Start: 273 @52899 has 28 MA's), (288, 52854), (329, 52764), (330, 52761), (333, 52755), (346, 52734), (395, 52671), (432, 52593), (453, 52563), (465, 52545), (499, 52458), (504, 52443), (521, 52401), (557, 52320), (581, 52272), (603, 52230), (609, 52212), (623, 52209), (648, 52182), (665, 52131), (689, 52095), (711, 52044), (756, 51960), (765, 51939), (844, 51783), (845, 51777), (847, 51765), (878, 51639), (925, 51525),

Gene: Big4_103 Start: 78367, Stop: 76427, Start Num: 151

Candidate Starts for Big4_103:

(Start: 151 @78367 has 19 MA's), (Start: 243 @78214 has 3 MA's), (278, 78121), (329, 78046), (375, 77965), (394, 77941), (461, 77665), (563, 77359), (601, 77269), (621, 77209), (625, 77200), (638, 77143), (639, 77137), (651, 77104), (653, 77092), (658, 77083), (673, 77059), (697, 76999), (793, 76867), (796, 76861), (822, 76798), (827, 76777), (829, 76771), (845, 76696), (846, 76690), (849, 76669), (864, 76609), (875, 76567), (882, 76543), (885, 76531),

Gene: BigChungus_56 Start: 40283, Stop: 38805, Start Num: 198

Candidate Starts for BigChungus_56:

(139, 40361), (167, 40310), (170, 40307), (Start: 198 @40283 has 49 MA's), (Start: 241 @40220 has 2 MA's), (255, 40199), (257, 40193), (Start: 266 @40166 has 1 MA's), (283, 40112), (299, 40076), (306, 40061), (362, 39965), (368, 39956), (389, 39935), (417, 39869), (462, 39833), (479, 39779), (481, 39773), (484, 39767), (512, 39689), (518, 39674), (559, 39575), (597, 39500), (608, 39476), (625, 39464), (648, 39443), (652, 39428), (653, 39419), (663, 39398), (694, 39359), (698, 39350), (705, 39335), (733, 39284), (770, 39212), (793, 39170), (805, 39152), (839, 39056), (850, 39005), (858, 38975), (866, 38942), (884, 38885), (889, 38870),

Gene: BigMack_25 Start: 20560, Stop: 21960, Start Num: 219

Candidate Starts for BigMack_25:

(Start: 219 @20560 has 74 MA's), (254, 20623), (Start: 289 @20728 has 1 MA's), (290, 20731), (329, 20815), (359, 20848), (401, 20899), (404, 20905), (449, 20986), (451, 20989), (452, 20995), (470, 21031), (475, 21049), (476, 21052), (489, 21085), (499, 21106), (505, 21124), (560, 21238), (576, 21265), (597, 21295), (602, 21304), (624, 21331), (651, 21364), (655, 21379), (686, 21406), (701, 21439), (741, 21511), (784, 21574), (793, 21592), (816, 21625), (836, 21694), (838, 21700), (843, 21715), (844, 21718), (849, 21751), (864, 21811), (870, 21838), (903, 21928),

Gene: BigMama_51 Start: 39745, Stop: 41688, Start Num: 58

Candidate Starts for BigMama_51:

(Start: 58 @39745 has 58 MA's), (72, 39772), (Start: 95 @39844 has 1 MA's), (115, 39898), (138, 39958), (145, 39976), (150, 39985), (180, 40036), (210, 40078), (236, 40114), (274, 40201), (308, 40294), (316, 40309), (328, 40330), (399, 40432), (411, 40465), (424, 40489), (466, 40549), (495, 40636), (518, 40711), (557, 40801), (580, 40852), (582, 40855), (628, 40945), (649, 40963), (659, 40996), (691, 41050), (697, 41062), (705, 41080), (735, 41143), (779, 41227), (826, 41344), (836, 41392), (851, 41455), (870, 41539),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for BigRedClifford_41:

(Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 221

Candidate Starts for BigShaq_59:

(94, 52403), (112, 52352), (129, 52301), (153, 52247), (169, 52217), (Start: 194 @52184 has 3 MA's), (Start: 203 @52175 has 1 MA's), (Start: 221 @52148 has 28 MA's), (Start: 273 @52025 has 28 MA's), (288, 51980), (306, 51938), (329, 51890), (330, 51887), (333, 51881), (334, 51878), (342, 51866), (346, 51860), (371, 51824), (384, 51812), (387, 51809), (453, 51689), (465, 51671), (499, 51584), (504, 51569), (521, 51527), (542, 51476), (554, 51449), (581, 51398), (609, 51338), (623, 51335), (627, 51326), (648, 51308), (662, 51266), (689, 51221), (756, 51086), (763, 51071), (773, 51050), (826, 50969), (827, 50966), (844, 50909), (845, 50903), (847, 50891), (859, 50840), (863, 50825), (864, 50816), (874, 50777), (878, 50765), (919, 50669), (925, 50654),

Gene: BillDoor_53 Start: 37991, Stop: 36513, Start Num: 198

Candidate Starts for BillDoor_53:

(Start: 198 @37991 has 49 MA's), (257, 37898), (Start: 266 @37871 has 1 MA's), (290, 37796), (Start: 310 @37754 has 1 MA's), (362, 37673), (462, 37541), (479, 37487), (484, 37475), (512, 37397), (559, 37283), (569, 37265), (572, 37256), (584, 37232), (605, 37193), (653, 37127), (663, 37106), (694, 37067), (702, 37049), (705, 37043), (766, 36932), (793, 36884), (805, 36866), (839, 36770), (845, 36749), (850, 36719),

Gene: BillyBobJr_65 Start: 53852, Stop: 52284, Start Num: 194

Candidate Starts for BillyBobJr_65:

(94, 54071), (112, 54020), (142, 53942), (153, 53915), (169, 53885), (Start: 194 @53852 has 3 MA's), (Start: 203 @53843 has 1 MA's), (Start: 221 @53816 has 28 MA's), (288, 53648), (306, 53606), (312, 53588), (329, 53558), (334, 53546), (346, 53528), (384, 53480), (465, 53339), (499, 53252), (504, 53237), (507, 53225), (521, 53195), (542, 53144), (581, 53066), (594, 53042), (603, 53024), (609, 53006), (623, 53003), (627, 52994), (648, 52976), (689, 52889), (756, 52754), (763, 52739), (773, 52718), (819, 52661), (826, 52637), (827, 52634), (844, 52577), (845, 52571), (847, 52559), (859, 52508), (864, 52484), (874, 52445), (878, 52433), (880, 52430), (919, 52337), (925, 52322), (931, 52301),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 221

Candidate Starts for BirksAndSocks_64:

(94, 54111), (112, 54060), (153, 53955), (169, 53925), (Start: 194 @53892 has 3 MA's), (Start: 203 @53883 has 1 MA's), (Start: 221 @53856 has 28 MA's), (288, 53688), (306, 53646), (312, 53628), (329, 53598), (334, 53586), (342, 53574), (346, 53568), (362, 53547), (465, 53379), (499, 53292), (504, 53277), (507, 53265), (521, 53235), (581, 53106), (594, 53082), (603, 53064), (609, 53046), (623, 53043), (627, 53034), (648, 53016), (689, 52929), (756, 52794), (763, 52779), (773, 52758), (826, 52677), (827, 52674), (844, 52617), (845, 52611), (847, 52599), (859, 52548), (864, 52524), (874, 52485), (878, 52473), (880, 52470), (919, 52377), (925, 52362),

Gene: BirthdayBoy_62 Start: 41143, Stop: 43056, Start Num: 58

Candidate Starts for BirthdayBoy_62:

(20, 41017), (23, 41026), (24, 41038), (35, 41071), (Start: 57 @41140 has 13 MA's), (Start: 58 @41143 has 58 MA's), (Start: 69 @41155 has 45 MA's), (81, 41203), (94, 41236), (120, 41305), (158, 41395), (176, 41422), (182, 41431), (236, 41503), (286, 41623), (311, 41686), (367, 41776), (385, 41803), (463, 41932), (470, 41956), (484, 41998), (502, 42046), (508, 42067), (514, 42088), (534, 42145), (557, 42199), (574, 42241), (604, 42301), (659, 42397), (660, 42400), (764, 42577), (792, 42628), (826, 42718), (836, 42754), (838, 42760), (850, 42814), (861, 42853), (888, 42955), (893, 42970), (902, 42991),

Gene: Biskit_55 Start: 38648, Stop: 37170, Start Num: 198

Candidate Starts for Biskit_55:

(Start: 198 @38648 has 49 MA's), (255, 38561), (257, 38555), (272, 38504), (290, 38453), (299, 38438), (346, 38354), (362, 38330), (368, 38321), (462, 38198), (479, 38144), (481, 38138), (484, 38132), (512, 38054), (559, 37940), (572, 37913), (584, 37889), (648, 37808), (653, 37784), (663, 37763), (694, 37724), (702, 37706), (705, 37700), (766, 37589), (770, 37583), (793, 37541), (805, 37523), (836, 37436), (839, 37427), (845, 37406), (850, 37376), (858, 37346), (866, 37313), (895, 37223),

Gene: BiteSize_50 Start: 36701, Stop: 38755, Start Num: 69

Candidate Starts for BiteSize_50:

(Start: 69 @36701 has 45 MA's), (74, 36725), (97, 36788), (128, 36872), (143, 36914), (Start: 273 @37136 has 28 MA's), (286, 37172), (318, 37247), (339, 37286), (369, 37328), (390, 37346), (399, 37367), (405, 37379), (434, 37439), (444, 37454), (463, 37472), (489, 37550), (495, 37565), (496, 37568), (508, 37607), (514, 37628), (556, 37730), (580, 37787), (591, 37808), (593, 37811), (597, 37823), (613, 37871), (614, 37877), (632, 37925), (637, 37958), (643, 37982), (650, 38000), (660, 38030), (714, 38153), (723, 38186), (727, 38198), (735, 38213), (757, 38252), (779, 38297), (792, 38324), (824, 38408), (842, 38471), (850, 38513), (853, 38522), (855, 38531), (865, 38579), (868, 38588), (870, 38600), (875, 38615), (889, 38657),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for Blage_41:

(Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: Blondies_56 Start: 38965, Stop: 37487, Start Num: 198

Candidate Starts for Blondies_56:

(Start: 198 @38965 has 49 MA's), (255, 38878), (257, 38872), (272, 38821), (290, 38770), (299, 38755), (346, 38671), (362, 38647), (368, 38638), (462, 38515), (479, 38461), (481, 38455), (484, 38449), (497, 38425), (512, 38371), (559, 38257), (572, 38230), (584, 38206), (648, 38125), (653, 38101), (663, 38080), (694, 38041), (702, 38023), (705, 38017), (766, 37906), (770, 37900), (793,

37858), (805, 37840), (836, 37753), (839, 37744), (845, 37723), (850, 37693), (858, 37663), (866, 37630), (895, 37540),

Gene: Bloom_105 Start: 80738, Stop: 82576, Start Num: 148

Candidate Starts for Bloom_105:

(Start: 148 @80738 has 12 MA's), (197, 80819), (245, 80897), (280, 80993), (329, 81053), (346, 81083), (408, 81203), (433, 81254), (463, 81314), (577, 81653), (602, 81710), (610, 81731), (625, 81776), (638, 81833), (639, 81839), (651, 81872), (653, 81884), (659, 81896), (682, 81941), (697, 81980), (754, 82037), (759, 82043), (773, 82076), (808, 82145), (832, 82229), (857, 82346), (912, 82520), (930, 82562),

Gene: BlueNGold_166 Start: 96830, Stop: 94920, Start Num: 147

Candidate Starts for BlueNGold_166:

(Start: 147 @96830 has 5 MA's), (264, 96626), (278, 96578), (296, 96533), (333, 96452), (341, 96440), (401, 96335), (408, 96308), (460, 96203), (468, 96179), (526, 96014), (621, 95747), (625, 95738), (634, 95711), (651, 95642), (773, 95393), (801, 95327), (815, 95303), (846, 95168), (860, 95108), (878, 95036),

Gene: BobtimousPrime_63 Start: 46536, Stop: 48593, Start Num: 58

Candidate Starts for BobtimousPrime_63:

(Start: 58 @46536 has 58 MA's), (79, 46596), (80, 46599), (Start: 114 @46692 has 3 MA's), (119, 46704), (127, 46725), (186, 46848), (188, 46851), (195, 46860), (218, 46893), (226, 46914), (Start: 247 @46962 has 139 MA's), (Start: 266 @47004 has 1 MA's), (286, 47067), (292, 47088), (294, 47094), (321, 47148), (428, 47334), (434, 47346), (455, 47364), (463, 47379), (466, 47385), (580, 47703), (582, 47706), (604, 47751), (643, 47802), (649, 47814), (691, 47904), (697, 47916), (711, 47949), (723, 47973), (725, 47982), (782, 48072), (798, 48105), (835, 48216), (836, 48219), (837, 48222), (838, 48225), (847, 48261), (850, 48279), (865, 48345), (870, 48363), (933, 48540),

Gene: Bodacious_25 Start: 20580, Stop: 21974, Start Num: 219

Candidate Starts for Bodacious_25:

(Start: 219 @20580 has 74 MA's), (254, 20637), (Start: 289 @20742 has 1 MA's), (290, 20745), (329, 20829), (359, 20862), (401, 20913), (404, 20919), (449, 21000), (451, 21003), (452, 21009), (470, 21045), (475, 21063), (476, 21066), (489, 21099), (499, 21120), (560, 21252), (576, 21279), (602, 21318), (611, 21339), (624, 21345), (651, 21378), (655, 21393), (659, 21402), (698, 21447), (714, 21483), (741, 21525), (784, 21588), (793, 21606), (836, 21708), (837, 21711), (843, 21729), (844, 21732), (848, 21756), (849, 21765), (870, 21852), (903, 21942), (915, 21966),

Gene: Bogota_43 Start: 31399, Stop: 32793, Start Num: 224

Candidate Starts for Bogota_43:

(Start: 224 @31399 has 13 MA's), (Start: 228 @31402 has 3 MA's), (265, 31477), (270, 31501), (284, 31531), (Start: 289 @31546 has 1 MA's), (341, 31636), (370, 31672), (430, 31771), (435, 31780), (474, 31849), (523, 31972), (587, 32107), (605, 32134), (624, 32155), (646, 32176), (686, 32233), (701, 32266), (705, 32275), (726, 32317), (770, 32383), (784, 32407), (793, 32425), (805, 32443), (827, 32497), (836, 32527), (849, 32584), (850, 32587), (863, 32635), (871, 32674), (876, 32689), (901, 32758), (909, 32776), (915, 32785),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 221

Candidate Starts for Boneham_63:

(94, 54012), (112, 53961), (153, 53856), (169, 53826), (Start: 194 @53793 has 3 MA's), (Start: 203 @53784 has 1 MA's), (Start: 221 @53757 has 28 MA's), (288, 53589), (306, 53547), (312, 53529), (329, 53499), (334, 53487), (342, 53475), (346, 53469), (362, 53448), (465, 53280), (499, 53193), (504, 53178), (507, 53166), (521, 53136), (581, 53007), (594, 52983), (603, 52965), (609, 52947), (623, 52944), (627, 52935), (648, 52917), (689, 52830), (756, 52695), (763, 52680), (773, 52659),

(826, 52578), (827, 52575), (844, 52518), (845, 52512), (847, 52500), (859, 52449), (864, 52425), (874, 52386), (878, 52374), (880, 52371), (919, 52278), (925, 52263),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for BonesMcCoy_41:

(14, 31769), (97, 31415), (125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 247

Candidate Starts for Bonino_40:

(125, 31017), (Start: 247 @30795 has 139 MA's), (308, 30651), (Start: 310 @30645 has 1 MA's), (311, 30642), (389, 30528), (404, 30501), (430, 30441), (457, 30414), (462, 30411), (499, 30315), (511, 30273), (584, 30102), (600, 30081), (608, 30066), (625, 30054), (655, 30006), (701, 29946), (753, 29850), (789, 29787), (820, 29733), (845, 29649), (846, 29643), (848, 29631), (866, 29556), (872, 29535), (890, 29481), (891, 29478), (900, 29454),

Gene: Bonum_76 Start: 56632, Stop: 54545, Start Num: 38

Candidate Starts for Bonum_76:

(Start: 38 @56632 has 35 MA's), (76, 56512), (Start: 91 @56467 has 1 MA's), (93, 56464), (215, 56209), (274, 56101), (292, 56047), (323, 55984), (374, 55894), (376, 55891), (393, 55867), (413, 55831), (484, 55693), (492, 55675), (495, 55666), (500, 55651), (542, 55528), (568, 55444), (580, 55417), (593, 55393), (649, 55294), (667, 55240), (701, 55186), (718, 55144), (735, 55105), (771, 55036), (779, 55003), (796, 54967), (817, 54922), (820, 54910), (836, 54850), (851, 54787), (899, 54622), (910, 54598),

Gene: BooTeria_97 Start: 77289, Stop: 79133, Start Num: 148

Candidate Starts for BooTeria_97:

(Start: 148 @77289 has 12 MA's), (280, 77562), (354, 77670), (396, 77736), (423, 77805), (427, 77814), (465, 77889), (567, 78198), (586, 78243), (602, 78282), (610, 78303), (625, 78348), (638, 78405), (639, 78411), (651, 78444), (653, 78456), (659, 78468), (735, 78585), (739, 78591), (791, 78681), (808, 78714), (832, 78798), (851, 78891), (857, 78915), (908, 79083), (910, 79086),

Gene: Boopy_169 Start: 96841, Stop: 94931, Start Num: 147

Candidate Starts for Boopy_169:

(Start: 147 @96841 has 5 MA's), (264, 96637), (278, 96589), (296, 96544), (333, 96463), (341, 96451), (401, 96346), (408, 96319), (460, 96214), (468, 96190), (526, 96025), (621, 95758), (625, 95749), (634, 95722), (651, 95653), (773, 95404), (801, 95338), (815, 95314), (846, 95179), (860, 95119), (878, 95047),

Gene: BouleyBill_39 Start: 30564, Stop: 29158, Start Num: 241

Candidate Starts for BouleyBill_39:

(149, 30711), (172, 30666), (Start: 196 @30636 has 1 MA's), (232, 30582), (Start: 241 @30564 has 2 MA's), (Start: 249 @30552 has 8 MA's), (Start: 253 @30546 has 24 MA's), (265, 30516), (308, 30408), (Start: 310 @30402 has 1 MA's), (311, 30399), (320, 30384), (430, 30198), (443, 30189), (462, 30168), (475, 30126), (499, 30072), (584, 29859), (600, 29838), (608, 29823), (625, 29811), (645, 29796), (657, 29760), (661, 29751), (685, 29736), (701, 29700), (753, 29601), (789, 29538), (807, 29511), (834, 29436), (836, 29430), (839, 29421), (844, 29406), (845, 29400), (846, 29394), (848, 29382), (882, 29259), (885, 29247), (919, 29172),

Gene: Bramble_42 Start: 26601, Stop: 28535, Start Num: 70

Candidate Starts for Bramble_42:

(16, 26361), (Start: 36 @26505 has 1 MA's), (68, 26595), (Start: 70 @26601 has 6 MA's), (116, 26748), (124, 26766), (127, 26775), (218, 26925), (280, 27051), (314, 27141), (323, 27150), (374, 27240), (400, 27282), (408, 27312), (470, 27444), (540, 27630), (550, 27648), (556, 27663), (580, 27720), (643, 27780), (678, 27852), (742, 27990), (775, 28056), (781, 28086), (782, 28089), (817, 28164), (837, 28242), (850, 28302), (871, 28392), (879, 28410),

Gene: Braxoaddie_72 Start: 53132, Stop: 51096, Start Num: 40

Candidate Starts for Braxoaddie_72:

(13, 53300), (Start: 40 @53132 has 6 MA's), (Start: 61 @53066 has 1 MA's), (76, 53024), (116, 52919), (215, 52739), (260, 52682), (274, 52631), (280, 52616), (314, 52526), (323, 52514), (374, 52421), (418, 52349), (466, 52280), (489, 52208), (508, 52151), (580, 51971), (593, 51947), (620, 51884), (649, 51848), (691, 51761), (749, 51629), (769, 51590), (771, 51587), (782, 51542), (836, 51395), (851, 51332), (862, 51290), (870, 51251), (881, 51227),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 221

Candidate Starts for Breezic_59:

(94, 52004), (112, 51953), (129, 51902), (153, 51848), (169, 51818), (Start: 194 @51785 has 3 MA's), (Start: 203 @51776 has 1 MA's), (Start: 221 @51749 has 28 MA's), (288, 51581), (306, 51539), (329, 51491), (334, 51479), (342, 51467), (346, 51461), (362, 51440), (384, 51413), (465, 51272), (499, 51185), (504, 51170), (507, 51158), (521, 51128), (542, 51077), (554, 51050), (581, 50999), (609, 50939), (623, 50936), (648, 50909), (662, 50867), (689, 50822), (756, 50687), (763, 50672), (773, 50651), (819, 50594), (826, 50570), (827, 50567), (844, 50510), (845, 50504), (846, 50498), (847, 50492), (859, 50441), (864, 50417), (874, 50378), (878, 50366), (880, 50363), (919, 50270), (925, 50255), (931, 50234),

Gene: BrotherBLo_29 Start: 22106, Stop: 23506, Start Num: 219

Candidate Starts for BrotherBLo_29:

(Start: 219 @22106 has 74 MA's), (254, 22169), (Start: 289 @22274 has 1 MA's), (329, 22361), (359, 22394), (401, 22445), (404, 22451), (449, 22532), (451, 22535), (452, 22541), (470, 22577), (475, 22595), (476, 22598), (489, 22631), (499, 22652), (505, 22670), (560, 22784), (576, 22811), (597, 22841), (602, 22850), (624, 22877), (651, 22910), (655, 22925), (698, 22979), (707, 23000), (712, 23012), (722, 23024), (836, 23240), (837, 23243), (838, 23246), (841, 23255), (843, 23261), (849, 23297), (864, 23357), (870, 23384), (903, 23474),

Gene: Bubble_51 Start: 38427, Stop: 36949, Start Num: 198

Candidate Starts for Bubble_51:

(Start: 198 @38427 has 49 MA's), (255, 38340), (257, 38334), (290, 38232), (364, 38106), (479, 37923), (481, 37917), (484, 37911), (512, 37833), (559, 37719), (572, 37692), (584, 37668), (625, 37608), (653, 37563), (663, 37542), (694, 37503), (702, 37485), (766, 37368), (793, 37320), (794, 37317), (805, 37302), (839, 37206), (845, 37185), (850, 37155), (913, 36966),

Gene: Buggaboo_74 Start: 57198, Stop: 55111, Start Num: 38

Candidate Starts for Buggaboo_74:

(Start: 38 @57198 has 35 MA's), (76, 57078), (Start: 91 @57033 has 1 MA's), (93, 57030), (215, 56775), (274, 56667), (292, 56613), (323, 56550), (374, 56460), (376, 56457), (393, 56433), (413, 56397), (484, 56259), (492, 56241), (495, 56232), (500, 56217), (542, 56094), (568, 56010), (580, 55983), (593, 55959), (649, 55860), (667, 55806), (701, 55752), (718, 55710), (735, 55671), (771, 55602), (779, 55569), (796, 55533), (817, 55488), (820, 55476), (836, 55416), (838, 55410), (851, 55353), (899, 55188), (910, 55164),

Gene: Burnsey_53 Start: 38833, Stop: 37355, Start Num: 198

Candidate Starts for Burnsey_53:

(Start: 198 @38833 has 49 MA's), (255, 38746), (257, 38740), (283, 38659), (290, 38638), (362, 38515), (364, 38512), (479, 38329), (481, 38323), (484, 38317), (512, 38239), (559, 38125), (572, 38098), (584, 38074), (625, 38014), (653, 37969), (663, 37948), (694, 37909), (702, 37891), (766, 37774), (793, 37726), (794, 37723), (805, 37708), (839, 37612), (845, 37591), (850, 37561),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 249

Candidate Starts for Bustleton_39:

(232, 30594), (Start: 249 @30567 has 8 MA's), (Start: 253 @30564 has 24 MA's), (265, 30534), (308, 30426), (Start: 310 @30420 has 1 MA's), (311, 30417), (320, 30402), (430, 30216), (443, 30207), (462, 30186), (475, 30144), (499, 30090), (584, 29877), (600, 29856), (608, 29841), (625, 29829), (645, 29814), (657, 29778), (661, 29769), (685, 29754), (701, 29718), (753, 29619), (789, 29556), (807, 29529), (834, 29454), (836, 29448), (839, 29439), (844, 29424), (845, 29418), (846, 29412), (848, 29400), (882, 29277), (885, 29265),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 221

Candidate Starts for Butterball_62:

(94, 54017), (112, 53966), (153, 53861), (169, 53831), (Start: 194 @53798 has 3 MA's), (Start: 203 @53789 has 1 MA's), (Start: 221 @53762 has 28 MA's), (288, 53594), (306, 53552), (312, 53534), (329, 53504), (334, 53492), (342, 53480), (346, 53474), (362, 53453), (465, 53285), (499, 53198), (504, 53183), (507, 53171), (521, 53141), (581, 53012), (594, 52988), (603, 52970), (609, 52952), (623, 52949), (627, 52940), (648, 52922), (689, 52835), (756, 52700), (763, 52685), (773, 52664), (826, 52583), (827, 52580), (844, 52523), (845, 52517), (847, 52505), (859, 52454), (864, 52430), (874, 52391), (878, 52379), (880, 52376), (919, 52283), (925, 52268),

Gene: Butterscotch_52 Start: 39729, Stop: 41672, Start Num: 58

Candidate Starts for Butterscotch_52:

(Start: 58 @39729 has 58 MA's), (72, 39756), (Start: 95 @39828 has 1 MA's), (115, 39882), (138, 39942), (145, 39960), (150, 39969), (180, 40020), (210, 40062), (236, 40098), (274, 40185), (308, 40278), (316, 40293), (328, 40314), (399, 40416), (411, 40449), (424, 40473), (466, 40533), (495, 40620), (518, 40695), (557, 40785), (580, 40836), (582, 40839), (628, 40929), (649, 40947), (659, 40980), (691, 41034), (697, 41046), (705, 41064), (735, 41127), (779, 41211), (826, 41328), (836, 41376), (851, 41439), (870, 41523),

Gene: Button_57 Start: 39117, Stop: 37642, Start Num: 202

Candidate Starts for Button_57:

(Start: 202 @39117 has 10 MA's), (230, 39075), (257, 39027), (Start: 266 @39000 has 1 MA's), (283, 38946), (290, 38925), (293, 38916), (346, 38826), (353, 38817), (364, 38799), (368, 38793), (462, 38670), (479, 38616), (481, 38610), (484, 38604), (504, 38559), (512, 38526), (608, 38313), (648, 38280), (660, 38241), (694, 38196), (702, 38178), (705, 38172), (730, 38127), (733, 38121), (745, 38100), (768, 38052), (770, 38049), (793, 38007), (794, 38004), (805, 37989), (819, 37962), (839, 37893), (850, 37842), (854, 37827), (882, 37731), (885, 37719), (888, 37710), (911, 37656),

Gene: Buttrmlkdreams_55 Start: 39095, Stop: 37617, Start Num: 198

Candidate Starts for Buttrmlkdreams_55:

(Start: 198 @39095 has 49 MA's), (255, 39008), (257, 39002), (272, 38951), (290, 38900), (299, 38885), (346, 38801), (362, 38777), (368, 38768), (462, 38645), (479, 38591), (481, 38585), (484, 38579), (499, 38549), (512, 38501), (559, 38387), (572, 38360), (584, 38336), (648, 38255), (653, 38231), (663, 38210), (694, 38171), (702, 38153), (705, 38147), (766, 38036), (770, 38030), (793, 37988), (805, 37970), (836, 37883), (839, 37874), (845, 37853), (850, 37823), (858, 37793), (866, 37760), (895, 37670),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for Byron23_42:

(14, 31768), (97, 31414), (125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (499, 30637), (511, 30595), (556, 30484), (584, 30424), (608, 30388), (625, 30376), (651, 30343), (655, 30328), (701, 30268), (753, 30172), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: C3PO_72 Start: 52724, Stop: 50799, Start Num: 67

Candidate Starts for C3PO_72:

(33, 52817), (Start: 67 @52724 has 8 MA's), (129, 52553), (153, 52499), (184, 52445), (274, 52295), (344, 52139), (374, 52088), (376, 52085), (465, 51956), (466, 51953), (489, 51881), (493, 51872), (649, 51515), (659, 51482), (749, 51296), (838, 51077), (842, 51065), (846, 51047), (851, 51020), (865, 50957), (875, 50924), (900, 50852),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 247

Candidate Starts for Calix_40:

(125, 31024), (Start: 247 @30802 has 139 MA's), (308, 30658), (Start: 310 @30652 has 1 MA's), (311, 30649), (389, 30535), (404, 30508), (430, 30448), (457, 30421), (462, 30418), (499, 30322), (511, 30280), (584, 30109), (600, 30088), (608, 30073), (625, 30061), (655, 30013), (701, 29953), (753, 29857), (789, 29794), (820, 29740), (845, 29656), (846, 29650), (848, 29638), (866, 29563), (872, 29542), (890, 29488), (891, 29485), (900, 29461),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 243

Candidate Starts for Camerico_63:

(Start: 243 @54751 has 3 MA's), (Start: 273 @54673 has 28 MA's), (280, 54655), (283, 54643), (288, 54628), (313, 54574), (329, 54556), (331, 54550), (368, 54496), (381, 54478), (412, 54418), (424, 54394), (469, 54313), (482, 54274), (498, 54247), (505, 54226), (517, 54199), (519, 54190), (581, 54058), (594, 54034), (603, 54016), (609, 53998), (625, 53989), (743, 53773), (746, 53767), (754, 53752), (777, 53701), (797, 53647), (847, 53506), (863, 53440), (864, 53431), (872, 53398),

Gene: Candle_64 Start: 47961, Stop: 49721, Start Num: 200

Candidate Starts for Candle_64:

(Start: 200 @47961 has 10 MA's), (Start: 250 @48030 has 24 MA's), (283, 48126), (287, 48135), (322, 48216), (346, 48261), (463, 48462), (477, 48510), (500, 48570), (504, 48582), (526, 48648), (569, 48771), (580, 48795), (593, 48819), (649, 49023), (659, 49056), (665, 49071), (691, 49110), (692, 49113), (697, 49122), (735, 49191), (748, 49215), (803, 49323), (836, 49446), (837, 49449), (845, 49476), (850, 49506), (852, 49512), (853, 49515), (857, 49533), (861, 49545), (902, 49680), (920, 49710),

Gene: CanesSauce_52 Start: 38485, Stop: 37007, Start Num: 198

Candidate Starts for CanesSauce_52:

(Start: 198 @38485 has 49 MA's), (257, 38392), (Start: 266 @38365 has 1 MA's), (290, 38290), (Start: 310 @38248 has 1 MA's), (362, 38167), (462, 38035), (479, 37981), (484, 37969), (512, 37891), (559, 37777), (572, 37750), (584, 37726), (605, 37687), (653, 37621), (663, 37600), (702, 37543), (766, 37426), (793, 37378), (805, 37360), (839, 37264), (845, 37243), (850, 37213),

Gene: Canowicakte_29 Start: 22165, Stop: 23559, Start Num: 219

Candidate Starts for Canowicakte_29:

(Start: 219 @22165 has 74 MA's), (254, 22222), (Start: 289 @22327 has 1 MA's), (329, 22414), (401, 22498), (403, 22501), (404, 22504), (452, 22594), (470, 22630), (473, 22639), (475, 22648), (499, 22705), (505, 22723), (522, 22756), (529, 22768), (560, 22837), (576, 22864), (590, 22888), (624, 22930), (651, 22963), (655, 22978), (659, 22987), (722, 23077), (768, 23146), (784, 23173), (793, 23191), (803, 23203), (836, 23293), (838, 23299), (841, 23308), (843, 23314), (849, 23350), (870, 23437), (887, 23488), (903, 23527), (915, 23551),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 250

Candidate Starts for CaptainRex_40:

(Start: 250 @29071 has 24 MA's), (263, 29041), (265, 29035), (Start: 310 @28921 has 1 MA's), (311, 28918), (457, 28681), (462, 28678), (557, 28423), (582, 28372), (584, 28366), (625, 28318), (651, 28285), (655, 28270), (689, 28198), (701, 28171), (705, 28162), (728, 28117), (732, 28111), (746, 28084), (789, 28012), (826, 27940), (836, 27904), (839, 27895), (844, 27880), (845, 27874), (848, 27856), (858, 27814), (875, 27751), (896, 27688), (900, 27679),

Gene: CaramellLatte_52 Start: 38485, Stop: 37007, Start Num: 198

Candidate Starts for CaramellLatte_52:

(Start: 198 @38485 has 49 MA's), (257, 38392), (Start: 266 @38365 has 1 MA's), (290, 38290), (Start: 310 @38248 has 1 MA's), (362, 38167), (462, 38035), (479, 37981), (484, 37969), (512, 37891), (559, 37777), (572, 37750), (584, 37726), (605, 37687), (653, 37621), (663, 37600), (702, 37543), (766, 37426), (793, 37378), (805, 37360), (839, 37264), (845, 37243), (850, 37213),

Gene: CardboardBox_39 Start: 26376, Stop: 24544, Start Num: 151

Candidate Starts for CardboardBox_39:

(Start: 151 @26376 has 19 MA's), (184, 26319), (283, 26118), (354, 25983), (423, 25848), (437, 25821), (465, 25764), (468, 25749), (487, 25695), (516, 25599), (518, 25593), (524, 25578), (539, 25533), (552, 25485), (558, 25464), (566, 25446), (588, 25395), (619, 25302), (625, 25290), (639, 25227), (676, 25155), (704, 25095), (713, 25074), (773, 25008), (782, 24990), (791, 24972), (792, 24969), (811, 24933), (836, 24825), (839, 24816), (853, 24756), (864, 24708),

Gene: CarisSwetlik_43 Start: 32061, Stop: 30658, Start Num: 250

Candidate Starts for CarisSwetlik_43:

(Start: 114 @32295 has 3 MA's), (131, 32244), (141, 32223), (164, 32172), (179, 32154), (Start: 250 @32061 has 24 MA's), (308, 31917), (Start: 310 @31911 has 1 MA's), (346, 31848), (389, 31794), (404, 31767), (430, 31707), (457, 31680), (462, 31677), (499, 31581), (511, 31539), (580, 31377), (584, 31368), (600, 31347), (625, 31320), (657, 31269), (701, 31212), (728, 31158), (753, 31116), (774, 31071), (838, 30939), (845, 30915), (846, 30909), (848, 30897), (872, 30801), (882, 30774), (890, 30747), (919, 30690),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 253

Candidate Starts for Carostasia_39:

(Start: 249 @30628 has 8 MA's), (Start: 253 @30625 has 24 MA's), (265, 30595), (Start: 266 @30589 has 1 MA's), (276, 30556), (Start: 310 @30481 has 1 MA's), (312, 30475), (389, 30364), (404, 30337), (424, 30286), (430, 30277), (457, 30250), (462, 30247), (475, 30205), (499, 30151), (557, 29995), (582, 29944), (584, 29938), (600, 29917), (605, 29911), (608, 29902), (625, 29890), (642, 29878), (674, 29800), (701, 29740), (703, 29734), (728, 29686), (750, 29644), (789, 29581), (795, 29569), (813, 29545), (816, 29542), (836, 29473), (839, 29464), (844, 29449), (845, 29443), (846, 29437), (848, 29425), (875, 29320), (882, 29302), (885, 29290), (902, 29245),

Gene: Carpal_29 Start: 22107, Stop: 23507, Start Num: 219

Candidate Starts for Carpal_29:

(Start: 219 @22107 has 74 MA's), (254, 22170), (Start: 289 @22275 has 1 MA's), (290, 22278), (329, 22362), (359, 22395), (401, 22446), (404, 22452), (449, 22533), (451, 22536), (452, 22542), (470, 22578), (475, 22596), (476, 22599), (489, 22632), (499, 22653), (505, 22671), (522, 22704), (560, 22785), (576, 22812), (597, 22842), (602, 22851), (624, 22878), (651, 22911), (655, 22926), (698, 22980), (707, 23001), (712, 23013), (722, 23025), (838, 23247), (841, 23256), (843, 23262), (849, 23298), (864, 23358), (870, 23385), (903, 23475),

Gene: Carsonalex_56 Start: 38706, Stop: 37321, Start Num: 257

Candidate Starts for Carsonalex_56:

(Start: 194 @38805 has 3 MA's), (Start: 202 @38796 has 10 MA's), (255, 38712), (257, 38706), (283, 38625), (290, 38604), (364, 38478), (479, 38295), (481, 38289), (484, 38283), (512, 38205), (559, 38091), (572, 38064), (584, 38040), (625, 37980), (653, 37935), (663, 37914), (694, 37875), (702, 37857), (705, 37851), (766, 37740), (793, 37692), (794, 37689), (805, 37674), (839, 37578), (845, 37557), (850, 37527),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 253

Candidate Starts for Casey_37:

(Start: 253 @29766 has 24 MA's), (305, 29637), (312, 29616), (389, 29505), (392, 29502), (425, 29418), (430, 29412), (445, 29400), (462, 29382), (469, 29361), (499, 29286), (509, 29253), (580, 29082), (582, 29079), (584, 29073), (585, 29070), (608, 29037), (655, 28977), (701, 28917), (703, 28911), (705, 28908), (706, 28905), (750, 28821), (825, 28689), (836, 28650), (844, 28626), (845, 28620), (848, 28602), (872, 28506), (882, 28479), (885, 28467), (896, 28434), (902, 28422),

Gene: CathyBurgh_59 Start: 52326, Stop: 50794, Start Num: 221

Candidate Starts for CathyBurgh_59:

(94, 52581), (112, 52530), (129, 52479), (153, 52425), (169, 52395), (Start: 194 @52362 has 3 MA's), (Start: 203 @52353 has 1 MA's), (Start: 221 @52326 has 28 MA's), (288, 52158), (306, 52116), (329, 52068), (334, 52056), (342, 52044), (346, 52038), (362, 52017), (384, 51990), (465, 51849), (499, 51762), (504, 51747), (507, 51735), (521, 51705), (542, 51654), (554, 51627), (581, 51576), (594, 51552), (603, 51534), (609, 51516), (623, 51513), (648, 51486), (662, 51444), (689, 51399), (756, 51264), (763, 51249), (773, 51228), (819, 51171), (826, 51147), (844, 51087), (845, 51081), (846, 51075), (847, 51069), (859, 51018), (864, 50994), (874, 50955), (878, 50943), (880, 50940), (919, 50847), (925, 50832), (931, 50811),

Gene: Cborch11_63 Start: 46091, Stop: 48148, Start Num: 58

Candidate Starts for Cborch11_63:

(Start: 58 @46091 has 58 MA's), (79, 46151), (80, 46154), (Start: 114 @46247 has 3 MA's), (119, 46259), (127, 46280), (186, 46403), (188, 46406), (195, 46415), (218, 46448), (226, 46469), (Start: 247 @46517 has 139 MA's), (Start: 266 @46559 has 1 MA's), (286, 46622), (292, 46643), (294, 46649), (321, 46703), (428, 46889), (434, 46901), (455, 46919), (463, 46934), (466, 46940), (580, 47258), (582, 47261), (604, 47306), (643, 47357), (649, 47369), (691, 47459), (697, 47471), (711, 47504), (723, 47528), (725, 47537), (782, 47627), (798, 47660), (835, 47771), (836, 47774), (837, 47777), (838, 47780), (847, 47816), (850, 47834), (865, 47900), (870, 47918), (933, 48095),

Gene: Cece_97 Start: 81318, Stop: 79462, Start Num: 146

Candidate Starts for Cece_97:

(Start: 146 @81318 has 1 MA's), (184, 81255), (231, 81186), (Start: 273 @81078 has 28 MA's), (329, 80991), (383, 80901), (401, 80868), (404, 80862), (433, 80790), (460, 80709), (463, 80703), (516, 80544), (563, 80400), (589, 80340), (601, 80310), (621, 80250), (625, 80241), (638, 80184), (639, 80178), (651, 80145), (653, 80133), (673, 80100), (697, 80040), (792, 79911), (793, 79908), (808, 79881), (822, 79839), (827, 79818), (846, 79731), (864, 79650), (875, 79608), (882, 79584), (902, 79527),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Chako_40:

(14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: ChamoyPickle_40 Start: 26916, Stop: 25084, Start Num: 151

Candidate Starts for ChamoyPickle_40:

(Start: 151 @26916 has 19 MA's), (184, 26859), (283, 26658), (354, 26523), (423, 26388), (437, 26361), (465, 26304), (468, 26289), (487, 26235), (516, 26139), (518, 26133), (524, 26118), (539, 26073), (552, 26025), (558, 26004), (566, 25986), (588, 25935), (619, 25842), (625, 25830), (639, 25767), (676, 25695), (704, 25635), (713, 25614), (773, 25548), (782, 25530), (791, 25512), (792, 25509), (811, 25473), (836, 25365), (839, 25356), (853, 25296), (864, 25248),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 247

Candidate Starts for Chamuel_40:

(125, 31050), (Start: 247 @30828 has 139 MA's), (308, 30684), (Start: 310 @30678 has 1 MA's), (311, 30675), (389, 30561), (404, 30534), (430, 30474), (457, 30447), (462, 30444), (499, 30348), (511, 30306), (580, 30144), (584, 30135), (600, 30114), (625, 30087), (651, 30054), (655, 30039), (692, 29964), (701, 29946), (753, 29850), (789, 29787), (820, 29733), (845, 29649), (846, 29643), (848, 29631), (866, 29556), (872, 29535), (890, 29481), (891, 29478), (900, 29454),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 194

Candidate Starts for Charianelly_57:

(94, 52957), (142, 52828), (Start: 194 @52738 has 3 MA's), (Start: 273 @52609 has 28 MA's), (288, 52564), (329, 52474), (330, 52471), (333, 52465), (346, 52444), (395, 52381), (432, 52303), (453, 52273), (465, 52255), (499, 52168), (504, 52153), (521, 52111), (557, 52030), (581, 51982), (603, 51940), (609, 51922), (623, 51919), (648, 51892), (665, 51841), (689, 51805), (711, 51754), (756, 51670), (765, 51649), (844, 51493), (845, 51487), (847, 51475), (878, 51349), (925, 51235),

Gene: Charminar_59 Start: 39177, Stop: 41090, Start Num: 58

Candidate Starts for Charminar_59:

(Start: 57 @39174 has 13 MA's), (Start: 58 @39177 has 58 MA's), (Start: 69 @39189 has 45 MA's), (81, 39237), (94, 39270), (158, 39429), (176, 39456), (182, 39465), (236, 39537), (286, 39657), (311, 39720), (367, 39810), (385, 39837), (463, 39966), (470, 39990), (484, 40032), (489, 40044), (495, 40059), (502, 40080), (508, 40101), (514, 40122), (534, 40179), (542, 40197), (557, 40233), (574, 40275), (604, 40335), (659, 40431), (660, 40434), (764, 40611), (792, 40662), (826, 40752), (836, 40788), (838, 40794), (850, 40848), (861, 40887), (888, 40989), (893, 41004), (902, 41025),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 247

Candidate Starts for Cheeto1_42:

(Start: 247 @31179 has 139 MA's), (308, 31035), (Start: 310 @31029 has 1 MA's), (346, 30966), (404, 30885), (430, 30825), (457, 30798), (462, 30795), (499, 30699), (511, 30657), (556, 30546), (584, 30486), (600, 30465), (625, 30438), (657, 30387), (689, 30357), (701, 30330), (706, 30318), (753, 30231), (789, 30168), (795, 30156), (826, 30096), (836, 30060), (838, 30054), (844, 30036), (845, 30030), (846, 30024), (858, 29970), (872, 29916), (882, 29889), (885, 29877),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 273

Candidate Starts for Chelms_59:

(94, 52547), (112, 52496), (129, 52445), (153, 52391), (169, 52361), (Start: 194 @52328 has 3 MA's), (Start: 203 @52319 has 1 MA's), (Start: 221 @52292 has 28 MA's), (Start: 273 @52169 has 28 MA's), (288, 52124), (306, 52082), (329, 52034), (330, 52031), (333, 52025), (334, 52022), (342, 52010), (346, 52004), (384, 51956), (387, 51953), (453, 51833), (465, 51815), (485, 51752), (499, 51728), (504, 51713), (521, 51671), (542, 51620), (554, 51593), (581, 51542), (609, 51482), (623, 51479), (627, 51470), (648, 51452), (662, 51410), (689, 51365), (690, 51362), (756, 51230), (763, 51215), (773, 51194), (826, 51113), (827, 51110), (844, 51053), (845, 51047), (847, 51035), (859, 50984), (863, 50969), (864, 50960), (874, 50921), (878, 50909), (919, 50813), (925, 50798),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 250

Candidate Starts for Chepli_42:

(Start: 250 @30524 has 24 MA's), (263, 30494), (309, 30377), (Start: 310 @30374 has 1 MA's), (311, 30371), (326, 30344), (346, 30311), (360, 30290), (389, 30248), (404, 30221), (457, 30134), (462, 30131), (475, 30089), (497, 30038), (557, 29876), (584, 29819), (642, 29759), (648, 29750), (651, 29738), (685, 29699), (686, 29696), (697, 29672), (698, 29669), (701, 29663), (746, 29576), (753, 29567), (755, 29564), (836, 29396), (839, 29387), (844, 29372), (845, 29366), (846, 29360), (848, 29348), (882, 29225), (889, 29201), (900, 29171),

Gene: CherryonLim_57 Start: 41741, Stop: 40263, Start Num: 198

Candidate Starts for CherryonLim_57:

(139, 41822), (170, 41768), (Start: 198 @41741 has 49 MA's), (Start: 241 @41678 has 2 MA's), (257, 41651), (Start: 266 @41624 has 1 MA's), (283, 41570), (290, 41549), (299, 41534), (306, 41519), (368, 41414), (462, 41291), (479, 41237), (481, 41231), (484, 41225), (512, 41147), (559, 41033), (605, 40943), (608, 40934), (625, 40922), (648, 40901), (652, 40886), (653, 40877), (663, 40856), (694, 40817), (698, 40808), (705, 40793), (745, 40721), (768, 40673), (770, 40670), (793, 40628), (805, 40610), (839, 40514), (850, 40463), (858, 40433), (866, 40400), (884, 40343), (889, 40328),

Gene: ChewChew_25 Start: 20575, Stop: 21969, Start Num: 219

Candidate Starts for ChewChew_25:

(Start: 219 @20575 has 74 MA's), (254, 20632), (Start: 289 @20737 has 1 MA's), (290, 20740), (329, 20824), (359, 20857), (401, 20908), (404, 20914), (449, 20995), (451, 20998), (452, 21004), (470, 21040), (475, 21058), (476, 21061), (489, 21094), (499, 21115), (560, 21247), (576, 21274), (602, 21313), (611, 21334), (624, 21340), (651, 21373), (655, 21388), (659, 21397), (698, 21442), (714, 21478), (741, 21520), (784, 21583), (793, 21601), (836, 21703), (837, 21706), (843, 21724), (844, 21727), (848, 21751), (849, 21760), (870, 21847), (903, 21937), (915, 21961),

Gene: ChewyVIII_83 Start: 61890, Stop: 59662, Start Num: 43

Candidate Starts for ChewyVIII_83:

(Start: 43 @61890 has 1 MA's), (153, 61581), (182, 61530), (215, 61485), (274, 61377), (292, 61323), (306, 61293), (316, 61269), (335, 61233), (349, 61212), (371, 61173), (374, 61167), (459, 60918), (489, 60777), (493, 60768), (504, 60735), (508, 60720), (527, 60666), (543, 60621), (554, 60597), (620, 60450), (628, 60432), (649, 60414), (660, 60378), (692, 60324), (701, 60306), (749, 60195), (771, 60153), (803, 60063), (836, 59958), (842, 59940), (862, 59853), (868, 59823), (870, 59814), (887, 59763), (895, 59739), (899, 59730), (910, 59706), (923, 59688),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 247

Candidate Starts for ChickenKing_40:

(Start: 247 @31093 has 139 MA's), (308, 30949), (Start: 310 @30943 has 1 MA's), (346, 30880), (404, 30799), (430, 30739), (457, 30712), (462, 30709), (466, 30703), (499, 30613), (511, 30571), (584, 30400), (600, 30379), (608, 30364), (625, 30352), (657, 30301), (701, 30244), (706, 30232), (789, 30082), (795, 30070), (826, 30010), (836, 29974), (838, 29968), (844, 29950), (845, 29944), (846, 29938), (858, 29884), (866, 29851), (872, 29830), (885, 29791),

Gene: ChickenTender_56 Start: 38517, Stop: 37042, Start Num: 198

Candidate Starts for ChickenTender_56:

(Start: 198 @38517 has 49 MA's), (257, 38427), (283, 38346), (290, 38325), (362, 38202), (364, 38199), (479, 38016), (481, 38010), (484, 38004), (512, 37926), (559, 37812), (572, 37785), (584, 37761), (625, 37701), (653, 37656), (663, 37635), (702, 37578), (766, 37461), (793, 37413), (794, 37410), (839, 37299), (845, 37278), (847, 37266), (850, 37248),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 253

Candidate Starts for ChikPic_40:

(Start: 249 @30956 has 8 MA's), (Start: 253 @30953 has 24 MA's), (265, 30923), (Start: 266 @30917 has 1 MA's), (276, 30884), (389, 30692), (404, 30665), (430, 30605), (457, 30578), (462, 30575), (475, 30533), (499, 30479), (511, 30437), (557, 30323), (584, 30266), (600, 30245), (608, 30230), (625, 30218), (642, 30206), (645, 30203), (651, 30185), (685, 30104), (701, 30068), (728, 30014), (750, 29972), (768, 29942), (784, 29918), (786, 29912), (816, 29870), (836, 29801), (844, 29777), (845, 29771), (846, 29765), (848, 29753), (872, 29657), (875, 29648), (882, 29630), (885, 29618), (902, 29573),

Gene: Chill_55 Start: 39836, Stop: 41779, Start Num: 58

Candidate Starts for Chill_55:

(Start: 58 @39836 has 58 MA's), (72, 39863), (Start: 95 @39935 has 1 MA's), (115, 39989), (138, 40049), (145, 40067), (150, 40076), (180, 40127), (210, 40169), (236, 40205), (274, 40292), (308, 40385), (316, 40400), (328, 40421), (399, 40523), (411, 40556), (424, 40580), (466, 40640), (495, 40727), (518, 40802), (557, 40892), (580, 40943), (582, 40946), (628, 41036), (649, 41054), (659, 41087), (691, 41141), (697, 41153), (705, 41171), (735, 41234), (779, 41318), (826, 41435), (836, 41483), (851, 41546), (870, 41630),

Gene: Chilliams_99 Start: 73536, Stop: 75392, Start Num: 148

Candidate Starts for Chilliams_99:

(Start: 148 @73536 has 12 MA's), (267, 73752), (280, 73794), (281, 73800), (309, 73833), (346, 73902), (354, 73917), (375, 73953), (400, 73992), (433, 74073), (463, 74133), (509, 74268), (610, 74550), (625, 74595), (639, 74658), (651, 74691), (653, 74703), (677, 74751), (687, 74769), (710, 74814), (735, 74835), (754, 74856), (773, 74895), (788, 74928), (808, 74964), (815, 74979), (822, 75006), (830, 75042), (832, 75048), (857, 75165), (864, 75195), (910, 75336),

Gene: ChipsNGuac_38 Start: 26376, Stop: 24544, Start Num: 151

Candidate Starts for ChipsNGuac_38:

(Start: 151 @26376 has 19 MA's), (184, 26319), (283, 26118), (354, 25983), (423, 25848), (437, 25821), (465, 25764), (468, 25749), (487, 25695), (516, 25599), (518, 25593), (524, 25578), (539, 25533), (552, 25485), (558, 25464), (566, 25446), (588, 25395), (619, 25302), (625, 25290), (639, 25227), (676, 25155), (704, 25095), (713, 25074), (773, 25008), (782, 24990), (791, 24972), (792, 24969), (811, 24933), (836, 24825), (839, 24816), (853, 24756), (864, 24708),

Gene: Chivey_40 Start: 25169, Stop: 27076, Start Num: 69

Candidate Starts for Chivey_40:

(19, 24995), (Start: 69 @25169 has 45 MA's), (85, 25232), (98, 25253), (116, 25307), (186, 25442), (218, 25484), (Start: 252 @25529 has 1 MA's), (314, 25703), (323, 25712), (374, 25802), (400, 25844), (406, 25859), (486, 26045), (534, 26180), (540, 26192), (556, 26225), (649, 26354), (705, 26471), (826, 26744), (837, 26783), (850, 26843), (871, 26933), (882, 26963), (895, 27005), (923, 27056),

Gene: ChocoMunchkin_52 Start: 38485, Stop: 37007, Start Num: 198

Candidate Starts for ChocoMunchkin_52:

(Start: 198 @38485 has 49 MA's), (257, 38392), (Start: 266 @38365 has 1 MA's), (290, 38290), (Start: 310 @38248 has 1 MA's), (362, 38167), (462, 38035), (479, 37981), (484, 37969), (512, 37891), (559, 37777), (572, 37750), (584, 37726), (605, 37687), (653, 37621), (663, 37600), (702, 37543), (766, 37426), (793, 37378), (805, 37360), (839, 37264), (845, 37243), (850, 37213),

Gene: Cholula_29 Start: 22153, Stop: 23553, Start Num: 219

Candidate Starts for Cholula_29:

(Start: 219 @22153 has 74 MA's), (254, 22216), (Start: 289 @22321 has 1 MA's), (290, 22324), (329, 22408), (359, 22441), (401, 22492), (404, 22498), (449, 22579), (451, 22582), (452, 22588), (470, 22624), (475, 22642), (476, 22645), (499, 22699), (522, 22750), (560, 22831), (576, 22858), (597, 22888), (602, 22897), (624, 22924), (651, 22957), (655, 22972), (698, 23026), (707, 23047), (712,

23059), (722, 23071), (838, 23293), (841, 23302), (843, 23308), (849, 23344), (864, 23404), (870, 23431), (903, 23521),

Gene: Chridison_26 Start: 21746, Stop: 23140, Start Num: 219

Candidate Starts for Chridison_26:

(Start: 219 @21746 has 74 MA's), (254, 21803), (283, 21890), (Start: 289 @21908 has 1 MA's), (290, 21911), (329, 21995), (359, 22028), (401, 22079), (404, 22085), (430, 22145), (452, 22175), (470, 22211), (475, 22229), (499, 22286), (505, 22304), (506, 22310), (522, 22337), (560, 22418), (576, 22445), (590, 22469), (602, 22484), (624, 22511), (651, 22544), (655, 22559), (686, 22586), (768, 22727), (784, 22754), (791, 22766), (803, 22784), (821, 22826), (836, 22874), (838, 22880), (843, 22895), (844, 22898), (849, 22931), (864, 22991), (870, 23018), (889, 23075), (903, 23108), (915, 23132),

Gene: Christian_25 Start: 20576, Stop: 21970, Start Num: 219

Candidate Starts for Christian_25:

(Start: 219 @20576 has 74 MA's), (254, 20633), (Start: 289 @20738 has 1 MA's), (290, 20741), (329, 20825), (359, 20858), (404, 20915), (449, 20996), (451, 20999), (452, 21005), (470, 21041), (475, 21059), (476, 21062), (489, 21095), (499, 21116), (560, 21248), (576, 21275), (602, 21314), (611, 21335), (624, 21341), (651, 21374), (655, 21389), (659, 21398), (698, 21443), (714, 21479), (741, 21521), (784, 21584), (793, 21602), (836, 21704), (837, 21707), (843, 21725), (844, 21728), (848, 21752), (849, 21761), (870, 21848), (903, 21938), (915, 21962),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 247

Candidate Starts for Christoph_40:

(125, 31037), (Start: 247 @30815 has 139 MA's), (308, 30671), (Start: 310 @30665 has 1 MA's), (311, 30662), (389, 30548), (404, 30521), (430, 30461), (457, 30434), (462, 30431), (499, 30335), (511, 30293), (584, 30122), (600, 30101), (608, 30086), (655, 30026), (701, 29966), (753, 29870), (789, 29807), (820, 29753), (845, 29669), (846, 29663), (848, 29651), (872, 29555), (890, 29501), (891, 29498), (900, 29474),

Gene: Cicada_35 Start: 23458, Stop: 24885, Start Num: 222

Candidate Starts for Cicada_35:

(Start: 222 @23458 has 17 MA's), (377, 23776), (403, 23815), (430, 23878), (464, 23923), (470, 23944), (506, 24043), (587, 24211), (624, 24259), (646, 24280), (655, 24307), (685, 24334), (698, 24364), (699, 24367), (701, 24370), (717, 24406), (772, 24484), (819, 24568), (826, 24586), (827, 24589), (849, 24676), (853, 24688), (863, 24727), (870, 24763), (872, 24769), (887, 24814), (898, 24844),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 194

Candidate Starts for CinnamonToast_65:

(94, 54071), (112, 54020), (142, 53942), (153, 53915), (169, 53885), (Start: 194 @53852 has 3 MA's), (Start: 203 @53843 has 1 MA's), (Start: 221 @53816 has 28 MA's), (288, 53648), (306, 53606), (312, 53588), (329, 53558), (334, 53546), (346, 53528), (384, 53480), (465, 53339), (499, 53252), (504, 53237), (507, 53225), (521, 53195), (542, 53144), (581, 53066), (594, 53042), (603, 53024), (609, 53006), (623, 53003), (627, 52994), (648, 52976), (689, 52889), (756, 52754), (763, 52739), (773, 52718), (819, 52661), (826, 52637), (827, 52634), (844, 52577), (845, 52571), (847, 52559), (859, 52508), (864, 52484), (874, 52445), (878, 52433), (880, 52430), (919, 52337), (925, 52322), (931, 52301),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 247

Candidate Starts for Clancy_40:

(14, 31499), (97, 31145), (125, 31070), (Start: 247 @30848 has 139 MA's), (308, 30704), (Start: 310 @30698 has 1 MA's), (311, 30695), (389, 30581), (404, 30554), (430, 30494), (457, 30467), (462,

30464), (499, 30368), (511, 30326), (584, 30155), (600, 30134), (608, 30119), (655, 30059), (701, 29999), (753, 29903), (789, 29840), (820, 29786), (845, 29702), (846, 29696), (848, 29684), (872, 29588), (890, 29534), (891, 29531), (900, 29507),

Gene: Cleo_47 Start: 37658, Stop: 36168, Start Num: 198

Candidate Starts for Cleo_47:

(Start: 198 @37658 has 49 MA's), (230, 37616), (255, 37574), (257, 37568), (Start: 266 @37541 has 1 MA's), (283, 37487), (286, 37481), (299, 37451), (Start: 310 @37424 has 1 MA's), (362, 37343), (364, 37340), (368, 37334), (389, 37313), (417, 37247), (462, 37211), (470, 37187), (479, 37157), (481, 37151), (484, 37145), (512, 37067), (569, 36935), (572, 36926), (611, 36848), (651, 36809), (653, 36797), (655, 36794), (685, 36758), (692, 36740), (694, 36737), (695, 36734), (702, 36719), (715, 36692), (719, 36680), (733, 36647), (768, 36578), (793, 36533), (794, 36530), (819, 36488), (823, 36473), (837, 36425), (839, 36419), (850, 36368), (876, 36272), (884, 36248), (895, 36215), (911, 36182), (913, 36179),

Gene: Clock_40 Start: 31950, Stop: 30520, Start Num: 247

Candidate Starts for Clock_40:

(Start: 247 @31950 has 139 MA's), (263, 31917), (276, 31872), (Start: 310 @31797 has 1 MA's), (311, 31794), (396, 31662), (401, 31650), (457, 31557), (462, 31554), (582, 31248), (584, 31242), (600, 31221), (625, 31194), (642, 31182), (645, 31179), (651, 31161), (675, 31104), (701, 31047), (706, 31035), (728, 30993), (746, 30960), (753, 30951), (765, 30927), (789, 30888), (820, 30834), (836, 30780), (839, 30771), (844, 30756), (845, 30750), (875, 30627), (882, 30609), (889, 30585),

Gene: CocoaPuff_56 Start: 40198, Stop: 38810, Start Num: 257

Candidate Starts for CocoaPuff_56:

(139, 40366), (167, 40315), (170, 40312), (Start: 198 @40288 has 49 MA's), (Start: 241 @40225 has 2 MA's), (255, 40204), (257, 40198), (Start: 266 @40171 has 1 MA's), (283, 40117), (299, 40081), (306, 40066), (362, 39970), (368, 39961), (389, 39940), (417, 39874), (462, 39838), (479, 39784), (481, 39778), (484, 39772), (512, 39694), (518, 39679), (559, 39580), (597, 39505), (608, 39481), (625, 39469), (648, 39448), (652, 39433), (653, 39424), (663, 39403), (694, 39364), (698, 39355), (705, 39340), (733, 39289), (770, 39217), (793, 39175), (794, 39172), (805, 39157), (839, 39061), (850, 39010), (858, 38980), (866, 38947), (884, 38890), (889, 38875),

Gene: CoffeeBean_72 Start: 53090, Stop: 51054, Start Num: 40

Candidate Starts for CoffeeBean_72:

(13, 53258), (Start: 40 @53090 has 6 MA's), (Start: 61 @53024 has 1 MA's), (76, 52982), (116, 52877), (215, 52697), (260, 52640), (274, 52589), (280, 52574), (314, 52484), (323, 52472), (374, 52379), (418, 52307), (466, 52238), (489, 52166), (508, 52109), (580, 51929), (593, 51905), (620, 51842), (649, 51806), (691, 51719), (749, 51587), (769, 51548), (771, 51545), (782, 51500), (836, 51353), (851, 51290), (862, 51248), (870, 51209), (881, 51185),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 253

Candidate Starts for ColaCorta_40:

(Start: 253 @31099 has 24 MA's), (265, 31069), (Start: 266 @31063 has 1 MA's), (276, 31030), (389, 30838), (404, 30811), (430, 30751), (457, 30724), (462, 30721), (475, 30679), (499, 30625), (511, 30583), (557, 30469), (584, 30412), (600, 30391), (608, 30376), (625, 30364), (642, 30352), (645, 30349), (651, 30331), (685, 30250), (701, 30214), (728, 30160), (750, 30118), (768, 30088), (784, 30064), (786, 30058), (816, 30016), (836, 29947), (844, 29923), (845, 29917), (846, 29911), (848, 29899), (872, 29803), (875, 29794), (882, 29776), (885, 29764), (902, 29719),

Gene: Commandaria_72 Start: 56463, Stop: 54385, Start Num: 38

Candidate Starts for Commandaria_72:

(Start: 38 @56463 has 35 MA's), (63, 56391), (99, 56277), (210, 56058), (215, 56049), (218, 56046), (274, 55941), (292, 55887), (323, 55824), (374, 55734), (413, 55671), (416, 55665), (484, 55533), (492, 55515), (580, 55260), (593, 55236), (649, 55134), (667, 55080), (683, 55065), (686, 55059), (718, 54984), (735, 54945), (771, 54876), (781, 54840), (782, 54837), (796, 54807), (816, 54765), (836, 54690), (851, 54627), (870, 54546), (899, 54462), (910, 54438),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for Convict_41:

(14, 31769), (97, 31415), (125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: CoolCookie_40 Start: 25941, Stop: 27848, Start Num: 69

Candidate Starts for CoolCookie_40:

(Start: 69 @25941 has 45 MA's), (85, 26004), (98, 26025), (116, 26079), (218, 26256), (Start: 252 @26301 has 1 MA's), (314, 26475), (323, 26484), (374, 26574), (406, 26631), (486, 26817), (534, 26952), (540, 26964), (556, 26997), (649, 27126), (705, 27243), (749, 27318), (836, 27552), (837, 27555), (850, 27615), (871, 27705), (882, 27735), (895, 27777), (923, 27828),

Gene: CoraRita_42 Start: 30818, Stop: 29430, Start Num: 247

Candidate Starts for CoraRita_42:

(14, 31469), (97, 31115), (125, 31040), (Start: 247 @30818 has 139 MA's), (308, 30674), (Start: 310 @30668 has 1 MA's), (311, 30665), (389, 30551), (404, 30524), (430, 30464), (457, 30437), (462, 30434), (499, 30338), (511, 30296), (584, 30125), (600, 30104), (608, 30089), (655, 30029), (701, 29969), (753, 29873), (789, 29810), (820, 29756), (845, 29672), (846, 29666), (848, 29654), (872, 29558), (890, 29504), (891, 29501), (900, 29477),

Gene: Cozz_51 Start: 38430, Stop: 36952, Start Num: 198

Candidate Starts for Cozz_51:

(Start: 198 @38430 has 49 MA's), (255, 38343), (257, 38337), (283, 38256), (290, 38235), (364, 38109), (479, 37926), (481, 37920), (484, 37914), (512, 37836), (559, 37722), (572, 37695), (584, 37671), (625, 37611), (653, 37566), (663, 37545), (694, 37506), (702, 37488), (766, 37371), (793, 37323), (794, 37320), (805, 37305), (839, 37209), (845, 37188), (850, 37158), (913, 36969),

Gene: Crestdrop_40 Start: 25203, Stop: 27110, Start Num: 69

Candidate Starts for Crestdrop_40:

(19, 25029), (Start: 69 @25203 has 45 MA's), (85, 25266), (98, 25287), (116, 25341), (186, 25476), (218, 25518), (Start: 252 @25563 has 1 MA's), (314, 25737), (323, 25746), (374, 25836), (400, 25878), (406, 25893), (486, 26079), (534, 26214), (540, 26226), (556, 26259), (649, 26388), (705, 26505), (826, 26778), (837, 26817), (850, 26877), (871, 26967), (882, 26997), (895, 27039), (923, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 273

Candidate Starts for Crete_60:

(94, 52669), (112, 52618), (129, 52567), (153, 52513), (169, 52483), (Start: 194 @52450 has 3 MA's), (Start: 203 @52441 has 1 MA's), (Start: 221 @52414 has 28 MA's), (Start: 273 @52291 has 28 MA's), (288, 52246), (306, 52204), (329, 52156), (330, 52153), (333, 52147), (334, 52144), (342, 52132), (346, 52126), (384, 52078), (387, 52075), (453, 51955), (465, 51937), (485, 51874), (499, 51850), (504, 51835), (521, 51793), (542, 51742), (554, 51715), (581, 51664), (609, 51604), (623, 51601), (627, 51592), (648, 51574), (662, 51532), (689, 51487), (697, 51469), (756, 51352), (763, 51337), (773, 51316), (826, 51235), (827, 51232), (844, 51175), (845, 51169), (847, 51157), (859, 51106), (863, 51091), (864, 51082), (874, 51043), (878, 51031), (919, 50935), (925, 50920),

Gene: CristinaYang_25 Start: 20580, Stop: 21974, Start Num: 219

Candidate Starts for CristinaYang_25:

(Start: 219 @20580 has 74 MA's), (254, 20637), (Start: 289 @20742 has 1 MA's), (290, 20745), (329, 20829), (359, 20862), (401, 20913), (404, 20919), (449, 21000), (451, 21003), (452, 21009), (470, 21045), (475, 21063), (476, 21066), (489, 21099), (499, 21120), (560, 21252), (576, 21279), (602, 21318), (611, 21339), (624, 21345), (651, 21378), (655, 21393), (659, 21402), (698, 21447), (714, 21483), (741, 21525), (784, 21588), (793, 21606), (836, 21708), (837, 21711), (843, 21729), (844, 21732), (848, 21756), (849, 21765), (870, 21852), (903, 21942), (915, 21966),

Gene: Crosby_42 Start: 31144, Stop: 32538, Start Num: 224

Candidate Starts for Crosby_42:

(Start: 224 @31144 has 13 MA's), (Start: 228 @31147 has 3 MA's), (265, 31222), (270, 31246), (272, 31252), (284, 31276), (Start: 289 @31291 has 1 MA's), (290, 31294), (325, 31366), (341, 31381), (370, 31417), (430, 31516), (474, 31594), (523, 31717), (587, 31852), (605, 31879), (624, 31900), (686, 31978), (701, 32011), (705, 32020), (726, 32062), (770, 32128), (772, 32131), (784, 32152), (793, 32170), (805, 32188), (827, 32242), (836, 32272), (849, 32329), (850, 32332), (863, 32380), (871, 32419), (876, 32434), (901, 32503), (909, 32521), (915, 32530),

Gene: Cruella_72 Start: 52724, Stop: 50799, Start Num: 67

Candidate Starts for Cruella_72:

(33, 52817), (Start: 67 @52724 has 8 MA's), (129, 52553), (153, 52499), (184, 52445), (274, 52295), (344, 52139), (374, 52088), (376, 52085), (465, 51956), (466, 51953), (489, 51881), (493, 51872), (649, 51515), (659, 51482), (749, 51296), (838, 51077), (842, 51065), (846, 51047), (851, 51020), (865, 50957), (875, 50924), (900, 50852),

Gene: Cuke_73 Start: 42303, Stop: 44156, Start Num: 89

Candidate Starts for Cuke_73:

(Start: 89 @42303 has 3 MA's), (140, 42423), (195, 42516), (218, 42549), (268, 42642), (271, 42651), (274, 42660), (284, 42690), (286, 42693), (308, 42750), (326, 42786), (331, 42798), (348, 42825), (361, 42849), (390, 42888), (411, 42942), (425, 42972), (434, 42990), (442, 43002), (504, 43143), (551, 43269), (574, 43326), (580, 43338), (649, 43440), (659, 43473), (665, 43488), (685, 43512), (686, 43515), (697, 43539), (714, 43578), (817, 43773), (836, 43863), (838, 43869), (846, 43899), (868, 43998), (886, 44058), (892, 44076), (896, 44088), (922, 44133), (925, 44139),

Gene: Cybele_40 Start: 25911, Stop: 27818, Start Num: 69

Candidate Starts for Cybele_40:

(Start: 69 @25911 has 45 MA's), (85, 25974), (98, 25995), (116, 26049), (218, 26226), (Start: 252 @26271 has 1 MA's), (314, 26445), (323, 26454), (374, 26544), (486, 26787), (534, 26922), (540, 26934), (556, 26967), (649, 27096), (705, 27213), (749, 27288), (836, 27522), (837, 27525), (850, 27585), (871, 27675), (882, 27705), (895, 27747), (923, 27798),

Gene: Daiboju_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for Daiboju_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 273

Candidate Starts for Dakiti_60:

(94, 53415), (112, 53364), (129, 53313), (153, 53259), (169, 53229), (Start: 194 @53196 has 3 MA's), (Start: 203 @53187 has 1 MA's), (Start: 221 @53160 has 28 MA's), (Start: 273 @53037 has 28 MA's), (288, 52992), (306, 52950), (329, 52902), (330, 52899), (333, 52893), (334, 52890), (342, 52878), (346, 52872), (384, 52824), (387, 52821), (453, 52701), (465, 52683), (485, 52620), (499, 52596), (504, 52581), (521, 52539), (542, 52488), (554, 52461), (581, 52410), (609, 52350), (623, 52347), (627, 52338), (648, 52320), (662, 52278), (689, 52233), (690, 52230), (756, 52098), (763, 52083), (773, 52062), (826, 51981), (827, 51978), (844, 51921), (845, 51915), (847, 51903), (859, 51852), (863, 51837), (864, 51828), (874, 51789), (878, 51777), (919, 51681), (925, 51666),

Gene: Dalilpop_75 Start: 57466, Stop: 55409, Start Num: 38

Candidate Starts for Dalilpop_75:

(Start: 38 @57466 has 35 MA's), (274, 56953), (292, 56899), (321, 56839), (323, 56836), (374, 56746), (389, 56728), (413, 56683), (416, 56677), (439, 56638), (471, 56584), (492, 56527), (542, 56380), (553, 56347), (565, 56317), (568, 56311), (580, 56284), (582, 56281), (649, 56161), (683, 56092), (691, 56074), (735, 55969), (740, 55960), (771, 55900), (782, 55861), (796, 55831), (820, 55774), (836, 55714), (845, 55684), (851, 55651), (862, 55609), (919, 55453),

Gene: Damien_61 Start: 46053, Stop: 48110, Start Num: 58

Candidate Starts for Damien_61:

(Start: 58 @46053 has 58 MA's), (79, 46113), (80, 46116), (Start: 114 @46209 has 3 MA's), (119, 46221), (127, 46242), (186, 46365), (188, 46368), (195, 46377), (218, 46410), (226, 46431), (Start: 247 @46479 has 139 MA's), (Start: 266 @46521 has 1 MA's), (286, 46584), (292, 46605), (294, 46611), (321, 46665), (428, 46851), (434, 46863), (455, 46881), (463, 46896), (466, 46902), (580, 47220), (582, 47223), (604, 47268), (643, 47319), (649, 47331), (691, 47421), (697, 47433), (711, 47466), (723, 47490), (725, 47499), (782, 47589), (798, 47622), (835, 47733), (836, 47736), (837, 47739), (838, 47742), (847, 47778), (850, 47796), (865, 47862), (870, 47880), (933, 48057),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 273

Candidate Starts for Damp_57:

(94, 52121), (142, 51992), (191, 51905), (Start: 194 @51902 has 3 MA's), (Start: 273 @51773 has 28 MA's), (288, 51728), (329, 51638), (330, 51635), (333, 51629), (346, 51608), (395, 51545), (453, 51437), (465, 51419), (499, 51332), (504, 51317), (521, 51275), (557, 51194), (581, 51146), (603, 51104), (609, 51086), (623, 51083), (648, 51056), (665, 51005), (689, 50969), (711, 50918), (756, 50834), (765, 50813), (844, 50657), (845, 50651), (847, 50639), (878, 50513), (925, 50399),

Gene: DannyDe_40 Start: 25175, Stop: 27082, Start Num: 69

Candidate Starts for DannyDe_40:

(19, 25001), (Start: 69 @25175 has 45 MA's), (85, 25238), (116, 25313), (186, 25448), (218, 25490), (Start: 252 @25535 has 1 MA's), (314, 25709), (323, 25718), (374, 25808), (400, 25850), (406, 25865), (486, 26051), (534, 26186), (540, 26198), (556, 26231), (649, 26360), (705, 26477), (826, 26750), (837, 26789), (850, 26849), (871, 26939), (882, 26969), (895, 27011), (923, 27062),

Gene: Darwin_73 Start: 51965, Stop: 50040, Start Num: 67

Candidate Starts for Darwin_73:

(33, 52058), (Start: 67 @51965 has 8 MA's), (129, 51794), (153, 51740), (274, 51536), (344, 51380), (374, 51329), (376, 51326), (407, 51284), (465, 51197), (466, 51194), (489, 51122), (493, 51113), (649, 50756), (659, 50723), (692, 50666), (820, 50384), (838, 50318), (842, 50306), (846, 50288), (847, 50282), (851, 50261), (865, 50198), (875, 50165), (888, 50126),

Gene: Dauntless_39 Start: 25497, Stop: 27404, Start Num: 69

Candidate Starts for Dauntless_39:

(19, 25323), (Start: 69 @25497 has 45 MA's), (85, 25560), (98, 25581), (116, 25635), (186, 25770), (209, 25797), (218, 25812), (Start: 252 @25857 has 1 MA's), (314, 26031), (323, 26040), (374, 26130), (400, 26172), (406, 26187), (486, 26373), (534, 26508), (540, 26520), (556, 26553), (649, 26682), (691, 26769), (705, 26799), (826, 27072), (837, 27111), (850, 27171), (871, 27261), (882, 27291), (895, 27333), (923, 27384),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 247

Candidate Starts for Dave_41:

(125, 31331), (Start: 247 @31109 has 139 MA's), (308, 30965), (Start: 310 @30959 has 1 MA's), (311, 30956), (389, 30842), (404, 30815), (430, 30755), (457, 30728), (462, 30725), (499, 30629), (511, 30587), (584, 30416), (600, 30395), (608, 30380), (625, 30368), (655, 30320), (701, 30260), (753, 30164), (789, 30101), (820, 30047), (845, 29963), (846, 29957), (848, 29945), (866, 29870), (872, 29849), (890, 29795), (891, 29792), (900, 29768),

Gene: DaviePasture_60 Start: 40751, Stop: 42664, Start Num: 58

Candidate Starts for DaviePasture_60:

(Start: 50 @40736 has 1 MA's), (Start: 57 @40748 has 13 MA's), (Start: 58 @40751 has 58 MA's), (Start: 69 @40763 has 45 MA's), (81, 40811), (120, 40913), (158, 41003), (176, 41030), (182, 41039), (236, 41111), (274, 41198), (286, 41231), (311, 41294), (324, 41312), (367, 41384), (385, 41411), (463, 41540), (470, 41564), (484, 41606), (502, 41654), (508, 41675), (514, 41696), (534, 41753), (542, 41771), (557, 41807), (574, 41849), (604, 41909), (659, 42005), (660, 42008), (792, 42236), (826, 42326), (836, 42362), (838, 42368), (850, 42422), (861, 42461), (888, 42563), (893, 42578), (902, 42599),

Gene: Delphidian_41 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for Delphidian_41:

(125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (466, 30727), (499, 30637), (511, 30595), (584, 30424), (608, 30388), (625, 30376), (651, 30343), (655, 30328), (701, 30268), (753, 30172), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: Delton_54 Start: 40127, Stop: 42070, Start Num: 58

Candidate Starts for Delton_54:

(32, 40058), (Start: 58 @40127 has 58 MA's), (72, 40154), (78, 40178), (Start: 95 @40226 has 1 MA's), (115, 40280), (138, 40340), (150, 40367), (180, 40418), (182, 40421), (210, 40460), (236, 40496), (274, 40583), (308, 40676), (316, 40691), (328, 40712), (399, 40814), (411, 40847), (424, 40871), (466, 40931), (495, 41018), (518, 41093), (557, 41183), (580, 41234), (582, 41237), (628, 41327), (649, 41345), (659, 41378), (691, 41432), (697, 41444), (705, 41462), (735, 41525), (779, 41609), (826, 41726), (836, 41774), (851, 41837), (870, 41921),

Gene: Demikore_78 Start: 49350, Stop: 51383, Start Num: 62

Candidate Starts for Demikore_78:

(Start: 62 @49350 has 3 MA's), (72, 49374), (90, 49437), (116, 49503), (135, 49554), (136, 49557), (195, 49665), (218, 49698), (Start: 247 @49737 has 139 MA's), (261, 49761), (280, 49824), (286, 49842), (287, 49845), (292, 49863), (294, 49869), (328, 49938), (343, 49965), (352, 49977), (379, 50010), (428, 50112), (489, 50235), (500, 50265), (534, 50370), (542, 50388), (578, 50478), (580, 50481), (612, 50583), (626, 50622), (643, 50649), (649, 50661), (665, 50709), (676, 50727), (691, 50754), (697, 50766), (701, 50775), (782, 50913), (803, 50958), (835, 51063), (865, 51192), (875, 51225), (882, 51243), (900, 51297), (921, 51336),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 121

Candidate Starts for Demosthenes_55:

(Start: 117 @52780 has 9 MA's), (Start: 121 @52768 has 2 MA's), (161, 52669), (Start: 178 @52648 has 1 MA's), (227, 52582), (277, 52483), (288, 52447), (297, 52423), (301, 52414), (306, 52405), (329, 52357), (342, 52333), (371, 52291), (387, 52276), (395, 52261), (420, 52204), (422, 52201), (461, 52141), (463, 52138), (485, 52072), (488, 52069), (504, 52033), (505, 52030), (511, 52012), (517, 52003), (521, 51991), (541, 51943), (557, 51910), (569, 51886), (581, 51862), (594, 51838), (648, 51772), (689, 51673), (754, 51541), (756, 51538), (805, 51472), (826, 51421), (827, 51418), (844, 51361), (847, 51343), (874, 51226), (875, 51223), (880, 51211), (925, 51112), (931, 51091),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 247

Candidate Starts for Den3_41:

(14, 31774), (97, 31420), (125, 31345), (Start: 247 @31123 has 139 MA's), (308, 30979), (Start: 310 @30973 has 1 MA's), (311, 30970), (389, 30856), (404, 30829), (430, 30769), (457, 30742), (462, 30739), (499, 30643), (511, 30601), (584, 30430), (600, 30409), (625, 30382), (655, 30334), (701, 30274), (789, 30115), (820, 30061), (845, 29977), (846, 29971), (848, 29959), (872, 29863), (890, 29809), (891, 29806), (900, 29782),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 273

Candidate Starts for Diabla_63:

(94, 54070), (112, 54019), (153, 53914), (169, 53884), (Start: 194 @53851 has 3 MA's), (Start: 203 @53842 has 1 MA's), (Start: 221 @53815 has 28 MA's), (Start: 273 @53692 has 28 MA's), (288, 53647), (306, 53605), (329, 53557), (330, 53554), (333, 53548), (334, 53545), (346, 53527), (362, 53506), (384, 53479), (453, 53356), (465, 53338), (499, 53251), (504, 53236), (542, 53143), (581, 53065), (594, 53041), (609, 53005), (623, 53002), (648, 52975), (662, 52933), (689, 52888), (697, 52870), (728, 52804), (756, 52753), (763, 52738), (773, 52717), (819, 52660), (827, 52633), (844, 52576), (845, 52570), (847, 52558), (859, 52507), (864, 52483), (874, 52444), (878, 52432), (880, 52429), (919, 52336), (925, 52321), (931, 52300),

Gene: Dina_47 Start: 36338, Stop: 37714, Start Num: 247

Candidate Starts for Dina_47:

(Start: 247 @36338 has 139 MA's), (274, 36407), (281, 36425), (320, 36518), (357, 36578), (360, 36584), (362, 36587), (457, 36707), (467, 36725), (511, 36842), (564, 36980), (584, 37019), (602, 37052), (605, 37058), (611, 37073), (651, 37112), (694, 37172), (705, 37196), (734, 37232), (783, 37301), (785, 37307), (828, 37388), (851, 37484), (854, 37496), (857, 37508), (870, 37565), (872, 37571), (876, 37583), (886, 37613), (906, 37664),

Gene: Djokovic_50 Start: 36614, Stop: 38668, Start Num: 69

Candidate Starts for Djokovic_50:

(Start: 69 @36614 has 45 MA's), (74, 36638), (97, 36701), (128, 36785), (143, 36827), (Start: 273 @37049 has 28 MA's), (286, 37085), (318, 37160), (339, 37199), (369, 37241), (390, 37259), (399, 37280), (405, 37292), (434, 37352), (444, 37367), (463, 37385), (489, 37463), (495, 37478), (496, 37481), (508, 37520), (514, 37541), (556, 37643), (580, 37700), (591, 37721), (593, 37724), (597, 37736), (613, 37784), (614, 37790), (632, 37838), (637, 37871), (643, 37895), (650, 37913), (660, 37943), (714, 38066), (723, 38099), (727, 38111), (735, 38126), (757, 38165), (779, 38210), (792, 38237), (824, 38321), (842, 38384), (850, 38426), (853, 38435), (855, 38444), (865, 38492), (868, 38501), (870, 38513), (875, 38528), (889, 38570),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 243

Candidate Starts for DocB7_048:

(Start: 243 @43676 has 3 MA's), (280, 43580), (288, 43553), (301, 43520), (311, 43496), (329, 43466), (381, 43391), (424, 43310), (432, 43295), (485, 43184), (498, 43163), (511, 43124), (575, 42986), (581, 42974), (583, 42971), (594, 42950), (651, 42872), (689, 42812), (754, 42677), (756, 42674), (780, 42623), (790, 42602), (809, 42575), (831, 42509), (840, 42482), (843, 42473), (847, 42452), (855, 42416), (864, 42377), (882, 42311), (924, 42215),

Gene: Dodo_116 Start: 79498, Stop: 77648, Start Num: 151

Candidate Starts for Dodo_116:

(126, 79567), (127, 79561), (Start: 151 @79498 has 19 MA's), (176, 79453), (184, 79441), (259, 79315), (278, 79252), (329, 79177), (395, 79069), (403, 79051), (429, 78982), (448, 78955), (460, 78895), (516, 78730), (563, 78586), (600, 78499), (610, 78472), (621, 78436), (625, 78427), (638, 78370), (639, 78364), (653, 78319), (659, 78307), (673, 78286), (684, 78262), (697, 78226), (744, 78181), (792, 78097), (793, 78094), (796, 78088), (822, 78025), (845, 77923), (864, 77836), (875, 77794), (890, 77743),

Gene: DoobyDoo_59 Start: 39773, Stop: 41686, Start Num: 58

Candidate Starts for DoobyDoo_59:

(Start: 57 @39770 has 13 MA's), (Start: 58 @39773 has 58 MA's), (Start: 69 @39785 has 45 MA's), (81, 39833), (94, 39866), (120, 39935), (158, 40025), (176, 40052), (182, 40061), (236, 40133), (274, 40220), (286, 40253), (311, 40316), (367, 40406), (463, 40562), (470, 40586), (484, 40628), (502, 40676), (508, 40697), (514, 40718), (534, 40775), (557, 40829), (574, 40871), (604, 40931), (659, 41027), (660, 41030), (764, 41207), (792, 41258), (826, 41348), (836, 41384), (838, 41390), (847, 41426), (850, 41444), (861, 41483), (888, 41585), (893, 41600), (902, 41621),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Dothraki_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (556, 30481), (584, 30421), (608, 30385), (625, 30373), (651, 30340), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: DrLupo_67 Start: 46291, Stop: 48255, Start Num: 55

Candidate Starts for DrLupo_67:

(17, 46123), (27, 46198), (28, 46204), (Start: 55 @46291 has 1 MA's), (65, 46312), (Start: 69 @46318 has 45 MA's), (71, 46324), (79, 46357), (88, 46390), (107, 46438), (116, 46459), (127, 46486), (135, 46510), (163, 46573), (173, 46591), (186, 46609), (195, 46621), (218, 46654), (Start: 247 @46696 has 139 MA's), (260, 46717), (261, 46720), (Start: 266 @46738 has 1 MA's), (275, 46771), (278, 46777), (286, 46801), (287, 46804), (316, 46876), (455, 47095), (463, 47110), (489, 47188), (514, 47266), (542, 47341), (554, 47374), (628, 47536), (643, 47542), (697, 47668), (698, 47671), (725, 47707), (729, 47713), (782, 47797), (798, 47830), (835, 47941), (836, 47944), (839, 47953), (847, 47986), (851, 48007), (862, 48049), (881, 48112), (887, 48139), (925, 48223),

Gene: DrRobert_25 Start: 20576, Stop: 21970, Start Num: 219

Candidate Starts for DrRobert_25:

(Start: 219 @20576 has 74 MA's), (254, 20633), (Start: 289 @20738 has 1 MA's), (290, 20741), (329, 20825), (359, 20858), (401, 20909), (404, 20915), (449, 20996), (451, 20999), (452, 21005), (470, 21041), (475, 21059), (476, 21062), (489, 21095), (499, 21116), (560, 21248), (576, 21275), (602, 21314), (611, 21335), (624, 21341), (651, 21374), (655, 21389), (659, 21398), (698, 21443), (714, 21479), (741, 21521), (784, 21584), (793, 21602), (836, 21704), (837, 21707), (843, 21725), (844, 21728), (848, 21752), (849, 21761), (870, 21848), (903, 21938), (915, 21962),

Gene: Dre3_48 Start: 37401, Stop: 35911, Start Num: 199

Candidate Starts for Dre3_48:

(Start: 199 @37401 has 3 MA's), (230, 37359), (255, 37317), (257, 37311), (Start: 266 @37284 has 1 MA's), (283, 37230), (286, 37224), (299, 37194), (Start: 310 @37167 has 1 MA's), (362, 37086), (364, 37083), (368, 37077), (389, 37056), (417, 36990), (462, 36954), (470, 36930), (479, 36900), (481, 36894), (484, 36888), (509, 36825), (512, 36810), (518, 36795), (572, 36669), (611, 36591), (651,

36552), (653, 36540), (655, 36537), (685, 36501), (692, 36483), (694, 36480), (695, 36477), (702, 36462), (715, 36435), (719, 36423), (768, 36321), (793, 36276), (794, 36273), (819, 36231), (823, 36216), (837, 36168), (839, 36162), (850, 36111), (876, 36015), (884, 35991), (895, 35958), (911, 35925), (913, 35922),

Gene: DreamTeam_25 Start: 20615, Stop: 22009, Start Num: 219

Candidate Starts for DreamTeam_25:

(Start: 219 @20615 has 74 MA's), (254, 20672), (Start: 289 @20777 has 1 MA's), (290, 20780), (329, 20864), (359, 20897), (403, 20951), (404, 20954), (452, 21044), (470, 21080), (476, 21101), (489, 21134), (499, 21155), (560, 21287), (576, 21314), (602, 21353), (624, 21380), (651, 21413), (655, 21428), (659, 21437), (698, 21482), (714, 21518), (770, 21599), (784, 21623), (793, 21641), (803, 21653), (827, 21713), (834, 21737), (836, 21743), (837, 21746), (843, 21764), (844, 21767), (848, 21791), (849, 21800), (870, 21887), (887, 21938), (903, 21977),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 56

Candidate Starts for Dryad_74:

(34, 51137), (39, 51128), (Start: 42 @51125 has 1 MA's), (Start: 56 @51068 has 8 MA's), (85, 50990), (Start: 91 @50981 has 1 MA's), (Start: 114 @50921 has 3 MA's), (122, 50900), (134, 50876), (160, 50813), (218, 50738), (236, 50714), (314, 50516), (323, 50507), (387, 50399), (466, 50243), (502, 50138), (517, 50087), (540, 50027), (578, 49940), (580, 49937), (608, 49883), (659, 49832), (663, 49823), (667, 49811), (691, 49778), (720, 49712), (748, 49685), (749, 49682), (798, 49583), (811, 49556), (837, 49466), (850, 49406), (853, 49397), (856, 49382), (869, 49322), (875, 49307), (888, 49268),

Gene: DumpTruck_58 Start: 39261, Stop: 41165, Start Num: 69

Candidate Starts for DumpTruck_58:

(22, 39126), (26, 39147), (31, 39168), (45, 39198), (Start: 57 @39243 has 13 MA's), (Start: 58 @39246 has 58 MA's), (Start: 69 @39261 has 45 MA's), (81, 39309), (94, 39342), (96, 39345), (135, 39450), (176, 39528), (182, 39537), (236, 39609), (Start: 247 @39624 has 139 MA's), (254, 39633), (284, 39726), (287, 39732), (311, 39792), (434, 40005), (463, 40038), (495, 40131), (500, 40146), (508, 40173), (514, 40194), (557, 40308), (574, 40350), (578, 40359), (597, 40398), (604, 40410), (628, 40455), (643, 40461), (659, 40506), (665, 40521), (727, 40614), (779, 40707), (836, 40860), (847, 40902), (850, 40920), (851, 40923), (888, 41061), (902, 41097), (928, 41151),

Gene: DunneganBoMo_90 Start: 76558, Stop: 78402, Start Num: 148

Candidate Starts for DunneganBoMo_90:

(Start: 148 @76558 has 12 MA's), (280, 76831), (354, 76939), (396, 77005), (423, 77074), (427, 77083), (465, 77158), (567, 77467), (586, 77512), (602, 77551), (610, 77572), (625, 77617), (638, 77674), (639, 77680), (651, 77713), (653, 77725), (659, 77737), (735, 77854), (739, 77860), (791, 77950), (808, 77983), (832, 78067), (851, 78160), (857, 78184), (908, 78352), (910, 78355),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Duocatuli_40:

(97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (866, 29564), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Edmundo_94 Start: 55295, Stop: 56959, Start Num: 159

Candidate Starts for Edmundo_94:

(Start: 159 @55295 has 9 MA's), (205, 55358), (210, 55367), (261, 55454), (Start: 273 @55499 has 28 MA's), (322, 55619), (375, 55712), (395, 55736), (400, 55748), (420, 55802), (452, 55853), (468,

55889), (476, 55916), (484, 55937), (487, 55943), (504, 55985), (545, 56102), (585, 56180), (599, 56198), (644, 56249), (655, 56282), (688, 56315), (712, 56372), (728, 56399), (751, 56441), (793, 56522), (812, 56552), (819, 56570), (827, 56597), (835, 56624), (853, 56699), (860, 56726), (863, 56738), (882, 56807), (884, 56816), (885, 56819), (896, 56852), (916, 56888), (924, 56903), (928, 56918), (932, 56939),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 194

Candidate Starts for Eggsie_57:

(94, 51847), (129, 51745), (142, 51718), (153, 51691), (163, 51670), (169, 51661), (Start: 194 @51628 has 3 MA's), (Start: 203 @51619 has 1 MA's), (Start: 221 @51592 has 28 MA's), (Start: 273 @51469 has 28 MA's), (288, 51424), (306, 51382), (329, 51334), (330, 51331), (333, 51325), (334, 51322), (346, 51304), (362, 51283), (384, 51256), (453, 51133), (465, 51115), (499, 51028), (504, 51013), (542, 50920), (581, 50842), (594, 50818), (609, 50782), (623, 50779), (648, 50752), (662, 50710), (689, 50665), (697, 50647), (728, 50581), (756, 50530), (763, 50515), (773, 50494), (819, 50437), (827, 50410), (844, 50353), (845, 50347), (847, 50335), (859, 50284), (864, 50260), (874, 50221), (878, 50209), (880, 50206), (919, 50113), (925, 50098), (931, 50077),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 221

Candidate Starts for Ekhein_59:

(94, 51709), (112, 51658), (129, 51607), (153, 51553), (169, 51523), (Start: 194 @51490 has 3 MA's), (Start: 203 @51481 has 1 MA's), (Start: 221 @51454 has 28 MA's), (288, 51286), (306, 51244), (329, 51196), (334, 51184), (342, 51172), (346, 51166), (362, 51145), (384, 51118), (465, 50977), (499, 50890), (504, 50875), (507, 50863), (521, 50833), (542, 50782), (554, 50755), (581, 50704), (603, 50662), (609, 50644), (623, 50641), (648, 50614), (662, 50572), (689, 50527), (756, 50392), (763, 50377), (773, 50356), (819, 50299), (826, 50275), (827, 50272), (844, 50215), (845, 50209), (846, 50203), (847, 50197), (859, 50146), (864, 50122), (874, 50083), (878, 50071), (880, 50068), (919, 49975), (925, 49960), (931, 49939),

Gene: ElJefes_58 Start: 40827, Stop: 39349, Start Num: 198

Candidate Starts for ElJefes_58:

(139, 40908), (170, 40854), (Start: 198 @40827 has 49 MA's), (Start: 241 @40764 has 2 MA's), (255, 40743), (257, 40737), (Start: 266 @40710 has 1 MA's), (283, 40656), (290, 40635), (299, 40620), (306, 40605), (353, 40524), (368, 40500), (417, 40413), (462, 40377), (479, 40323), (481, 40317), (484, 40311), (512, 40233), (518, 40218), (556, 40128), (559, 40119), (572, 40092), (605, 40029), (608, 40020), (625, 40008), (648, 39987), (652, 39972), (653, 39963), (663, 39942), (694, 39903), (698, 39894), (705, 39879), (728, 39837), (745, 39807), (768, 39759), (770, 39756), (793, 39714), (805, 39696), (839, 39600), (850, 39549), (858, 39519), (866, 39486), (884, 39429), (889, 39414),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 253

Candidate Starts for Eleri_40:

(Start: 253 @30943 has 24 MA's), (265, 30913), (Start: 266 @30907 has 1 MA's), (276, 30874), (389, 30682), (404, 30655), (430, 30595), (457, 30568), (462, 30565), (475, 30523), (499, 30469), (511, 30427), (584, 30256), (600, 30235), (608, 30220), (625, 30208), (642, 30196), (645, 30193), (651, 30175), (685, 30094), (701, 30058), (728, 30004), (750, 29962), (768, 29932), (784, 29908), (786, 29902), (816, 29860), (836, 29791), (844, 29767), (845, 29761), (846, 29755), (848, 29743), (872, 29647), (875, 29638), (882, 29620), (885, 29608), (902, 29563),

Gene: Elinal_60 Start: 40792, Stop: 39314, Start Num: 198

Candidate Starts for Elinal_60:

(Start: 198 @40792 has 49 MA's), (Start: 241 @40729 has 2 MA's), (255, 40708), (257, 40702), (Start: 266 @40675 has 1 MA's), (283, 40621), (299, 40585), (306, 40570), (362, 40474), (368, 40465), (389, 40444), (417, 40378), (462, 40342), (479, 40288), (481, 40282), (484, 40276), (512, 40198), (518, 40183), (559, 40084), (597, 40009), (608, 39985), (625, 39973), (648, 39952), (652, 39937), (653,

39928), (663, 39907), (694, 39868), (698, 39859), (705, 39844), (733, 39793), (770, 39721), (793, 39679), (794, 39676), (805, 39661), (839, 39565), (850, 39514), (858, 39484), (866, 39451), (884, 39394), (889, 39379),

Gene: Elliott_53 Start: 38726, Stop: 37248, Start Num: 198

Candidate Starts for Elliott_53:

(Start: 198 @38726 has 49 MA's), (255, 38639), (257, 38633), (283, 38552), (290, 38531), (362, 38408), (364, 38405), (479, 38222), (481, 38216), (484, 38210), (512, 38132), (559, 38018), (572, 37991), (584, 37967), (625, 37907), (653, 37862), (663, 37841), (694, 37802), (702, 37784), (766, 37667), (793, 37619), (794, 37616), (805, 37601), (839, 37505), (845, 37484), (850, 37454),

Gene: Ellewin_89 Start: 75969, Stop: 77813, Start Num: 148

Candidate Starts for Ellewin_89:

(Start: 148 @75969 has 12 MA's), (280, 76242), (354, 76350), (396, 76416), (423, 76485), (427, 76494), (465, 76569), (498, 76665), (567, 76878), (586, 76923), (602, 76962), (610, 76983), (625, 77028), (639, 77091), (651, 77124), (653, 77136), (659, 77148), (735, 77265), (739, 77271), (776, 77334), (796, 77373), (808, 77394), (832, 77478), (851, 77571), (857, 77595), (908, 77763), (910, 77766),

Gene: Emalyn_52 Start: 37827, Stop: 36349, Start Num: 198

Candidate Starts for Emalyn_52:

(Start: 198 @37827 has 49 MA's), (255, 37740), (257, 37734), (290, 37632), (Start: 310 @37590 has 1 MA's), (346, 37533), (358, 37515), (362, 37509), (462, 37377), (479, 37323), (481, 37317), (484, 37311), (512, 37233), (559, 37119), (572, 37092), (584, 37068), (605, 37029), (648, 36987), (653, 36963), (663, 36942), (694, 36903), (702, 36885), (705, 36879), (745, 36813), (766, 36768), (793, 36720), (794, 36717), (805, 36702), (839, 36606), (845, 36585), (850, 36555), (858, 36525), (902, 36387),

Gene: Emianna_72 Start: 56707, Stop: 54641, Start Num: 38

Candidate Starts for Emianna_72:

(2, 57205), (6, 57004), (9, 56911), (10, 56899), (12, 56881), (Start: 38 @56707 has 35 MA's), (Start: 82 @56569 has 2 MA's), (87, 56545), (182, 56341), (215, 56296), (274, 56188), (321, 56074), (323, 56071), (374, 55981), (376, 55978), (413, 55918), (484, 55780), (492, 55762), (500, 55738), (542, 55615), (580, 55510), (649, 55384), (667, 55330), (731, 55204), (735, 55195), (748, 55171), (779, 55099), (782, 55093), (796, 55063), (820, 55006), (836, 54946), (851, 54883), (870, 54802),

Gene: Emmetator_93 Start: 76561, Stop: 78405, Start Num: 148

Candidate Starts for Emmetator_93:

(Start: 148 @76561 has 12 MA's), (280, 76834), (354, 76942), (396, 77008), (423, 77077), (427, 77086), (465, 77161), (567, 77470), (586, 77515), (602, 77554), (610, 77575), (625, 77620), (638, 77677), (639, 77683), (651, 77716), (653, 77728), (659, 77740), (735, 77857), (739, 77863), (791, 77953), (808, 77986), (832, 78070), (851, 78163), (857, 78187), (908, 78355), (910, 78358),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 247

Candidate Starts for Endor_41:

(Start: 166 @31618 has 1 MA's), (185, 31597), (Start: 247 @31504 has 139 MA's), (308, 31360), (Start: 310 @31354 has 1 MA's), (311, 31351), (389, 31237), (404, 31210), (430, 31150), (457, 31123), (462, 31120), (499, 31024), (511, 30982), (584, 30811), (600, 30790), (655, 30715), (701, 30655), (753, 30559), (820, 30442), (826, 30424), (845, 30358), (846, 30352), (848, 30340), (872, 30244), (890, 30190), (891, 30187), (900, 30163), (918, 30133),

Gene: Ennea_79 Start: 57918, Stop: 55861, Start Num: 38

Candidate Starts for Ennea_79:

(7, 58206), (11, 58098), (Start: 38 @57918 has 35 MA's), (195, 57543), (275, 57402), (292, 57351), (321, 57291), (323, 57288), (364, 57216), (374, 57198), (413, 57135), (416, 57129), (431, 57102), (471, 57036), (484, 56997), (492, 56979), (500, 56955), (542, 56832), (553, 56799), (580, 56736), (649, 56613), (683, 56544), (691, 56526), (735, 56421), (740, 56412), (771, 56352), (779, 56319), (782, 56313), (796, 56283), (820, 56226), (836, 56166), (845, 56136), (851, 56103), (899, 55938),

Gene: Erasmago_105 Start: 76053, Stop: 74113, Start Num: 151

Candidate Starts for Erasmago_105:

(Start: 151 @76053 has 19 MA's), (231, 75927), (278, 75807), (329, 75732), (375, 75651), (386, 75639), (401, 75609), (516, 75189), (563, 75045), (596, 74976), (601, 74955), (621, 74895), (625, 74886), (630, 74871), (639, 74823), (651, 74790), (653, 74778), (673, 74745), (697, 74685), (710, 74670), (744, 74640), (793, 74553), (796, 74547), (822, 74484), (829, 74457), (846, 74376), (850, 74352), (864, 74295), (875, 74253), (885, 74217),

Gene: Erk16_52 Start: 39875, Stop: 41818, Start Num: 58

Candidate Starts for Erk16_52:

(41, 39812), (Start: 58 @39875 has 58 MA's), (72, 39902), (Start: 95 @39974 has 1 MA's), (115, 40028), (138, 40088), (150, 40115), (180, 40166), (210, 40208), (236, 40244), (274, 40331), (308, 40424), (316, 40439), (328, 40460), (399, 40562), (411, 40595), (424, 40619), (466, 40679), (495, 40766), (518, 40841), (557, 40931), (580, 40982), (582, 40985), (628, 41075), (649, 41093), (659, 41126), (697, 41192), (705, 41210), (735, 41273), (779, 41357), (826, 41474), (836, 41522), (851, 41585), (870, 41669),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 247

Candidate Starts for Erla_40:

(125, 31021), (Start: 247 @30799 has 139 MA's), (308, 30655), (Start: 310 @30649 has 1 MA's), (311, 30646), (389, 30532), (404, 30505), (430, 30445), (457, 30418), (462, 30415), (499, 30319), (511, 30277), (584, 30106), (600, 30085), (608, 30070), (625, 30058), (655, 30010), (701, 29950), (753, 29854), (789, 29791), (820, 29737), (845, 29653), (846, 29647), (848, 29635), (866, 29560), (872, 29539), (890, 29485), (891, 29482), (900, 29458),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 69

Candidate Starts for Erudite_39:

(19, 25323), (Start: 69 @25497 has 45 MA's), (85, 25560), (98, 25581), (116, 25635), (186, 25770), (209, 25797), (218, 25812), (Start: 252 @25857 has 1 MA's), (314, 26031), (323, 26040), (374, 26130), (400, 26172), (406, 26187), (486, 26373), (534, 26508), (540, 26520), (556, 26553), (649, 26682), (691, 26769), (705, 26799), (826, 27072), (837, 27111), (850, 27171), (871, 27261), (882, 27291), (895, 27333), (923, 27384),

Gene: Erutan_60 Start: 40423, Stop: 42336, Start Num: 58

Candidate Starts for Erutan_60:

(20, 40297), (23, 40306), (24, 40318), (35, 40351), (Start: 57 @40420 has 13 MA's), (Start: 58 @40423 has 58 MA's), (Start: 69 @40435 has 45 MA's), (81, 40483), (94, 40516), (158, 40675), (176, 40702), (182, 40711), (236, 40783), (274, 40870), (286, 40903), (311, 40966), (367, 41056), (385, 41083), (463, 41212), (470, 41236), (484, 41278), (502, 41326), (508, 41347), (514, 41368), (534, 41425), (557, 41479), (574, 41521), (604, 41581), (659, 41677), (660, 41680), (792, 41908), (826, 41998), (836, 42034), (838, 42040), (850, 42094), (861, 42133), (888, 42235), (893, 42250), (902, 42271),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 247

Candidate Starts for Espinosa_40:

(125, 31036), (Start: 247 @30814 has 139 MA's), (308, 30670), (Start: 310 @30664 has 1 MA's), (311, 30661), (389, 30547), (404, 30520), (430, 30460), (457, 30433), (462, 30430), (499, 30334), (511, 30292), (584, 30121), (600, 30100), (608, 30085), (655, 30025), (701, 29965), (753, 29869), (789,

29806), (820, 29752), (845, 29668), (846, 29662), (848, 29650), (872, 29554), (890, 29500), (891, 29497), (900, 29473),

Gene: EstebanJulior_26 Start: 21743, Stop: 23140, Start Num: 219

Candidate Starts for EstebanJulior_26:

(Start: 219 @21743 has 74 MA's), (254, 21803), (Start: 289 @21908 has 1 MA's), (290, 21911), (329, 21995), (359, 22028), (401, 22079), (404, 22085), (449, 22166), (452, 22175), (470, 22211), (475, 22229), (476, 22232), (489, 22265), (499, 22286), (560, 22418), (597, 22475), (602, 22484), (611, 22505), (624, 22511), (651, 22544), (655, 22559), (701, 22619), (714, 22649), (770, 22730), (793, 22772), (816, 22805), (834, 22868), (837, 22877), (841, 22889), (843, 22895), (846, 22910), (848, 22922), (849, 22931), (870, 23018), (889, 23075), (903, 23108),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 247

Candidate Starts for Etna_40:

(Start: 166 @31398 has 1 MA's), (231, 31314), (Start: 247 @31284 has 139 MA's), (308, 31137), (Start: 310 @31131 has 1 MA's), (311, 31128), (389, 31014), (404, 30987), (430, 30927), (457, 30900), (462, 30897), (499, 30801), (511, 30759), (584, 30588), (600, 30567), (701, 30432), (753, 30336), (820, 30219), (826, 30201), (845, 30135), (846, 30129), (848, 30117), (872, 30021), (890, 29967), (891, 29964), (900, 29940), (918, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Etta_40:

(125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (625, 30062), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (866, 29564), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Eunoia_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for Eunoia_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470, 22210), (475, 22228), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (741, 22690), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 221

Candidate Starts for Exiguo_58:

(94, 51721), (112, 51670), (129, 51619), (153, 51565), (169, 51535), (Start: 194 @51502 has 3 MA's), (Start: 203 @51493 has 1 MA's), (Start: 221 @51466 has 28 MA's), (288, 51298), (306, 51256), (329, 51208), (334, 51196), (342, 51184), (346, 51178), (362, 51157), (384, 51130), (465, 50989), (499, 50902), (504, 50887), (507, 50875), (521, 50845), (542, 50794), (554, 50767), (581, 50716), (603, 50674), (609, 50656), (623, 50653), (648, 50626), (662, 50584), (689, 50539), (756, 50404), (763, 50389), (773, 50368), (819, 50311), (826, 50287), (827, 50284), (844, 50227), (845, 50221), (846, 50215), (847, 50209), (859, 50158), (864, 50134), (874, 50095), (878, 50083), (880, 50080), (919, 49987), (925, 49972), (931, 49951),

Gene: Exploradora_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Exploradora_40:

(125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789,

29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Ezurina_37 Start: 27463, Stop: 25631, Start Num: 151

Candidate Starts for Ezurina_37:

(Start: 151 @27463 has 19 MA's), (184, 27406), (283, 27205), (354, 27070), (437, 26908), (465, 26851), (468, 26836), (516, 26686), (518, 26680), (524, 26665), (539, 26620), (552, 26572), (558, 26551), (566, 26533), (588, 26482), (625, 26377), (639, 26314), (676, 26242), (713, 26161), (759, 26128), (773, 26095), (782, 26077), (791, 26059), (792, 26056), (811, 26020), (836, 25912), (839, 25903), (853, 25843), (864, 25795), (877, 25747),

Gene: FF47_48 Start: 38882, Stop: 37371, Start Num: 171

Candidate Starts for FF47_48:

(Start: 171 @38882 has 2 MA's), (201, 38846), (256, 38756), (257, 38753), (271, 38705), (299, 38636), (366, 38522), (464, 38393), (479, 38342), (481, 38336), (484, 38330), (497, 38306), (512, 38252), (572, 38111), (574, 38108), (604, 38051), (653, 37979), (655, 37976), (768, 37781), (793, 37736), (836, 37631), (850, 37571), (902, 37403), (913, 37382),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 247

Candidate Starts for FarmerDoug_40:

(92, 31427), (101, 31406), (Start: 247 @31139 has 139 MA's), (308, 30992), (Start: 310 @30986 has 1 MA's), (311, 30983), (346, 30923), (389, 30869), (404, 30842), (430, 30782), (457, 30755), (462, 30752), (499, 30656), (511, 30614), (584, 30443), (600, 30422), (625, 30395), (655, 30347), (692, 30305), (701, 30287), (753, 30191), (820, 30074), (826, 30056), (838, 30014), (845, 29990), (846, 29984), (848, 29972), (872, 29876), (890, 29822), (891, 29819), (900, 29795), (918, 29765),

Gene: Feastonyeet_56 Start: 40283, Stop: 38805, Start Num: 198

Candidate Starts for Feastonyeet_56:

(139, 40361), (167, 40310), (170, 40307), (Start: 198 @40283 has 49 MA's), (Start: 241 @40220 has 2 MA's), (255, 40199), (257, 40193), (Start: 266 @40166 has 1 MA's), (283, 40112), (299, 40076), (306, 40061), (362, 39965), (368, 39956), (389, 39935), (417, 39869), (462, 39833), (479, 39779), (481, 39773), (484, 39767), (512, 39689), (518, 39674), (559, 39575), (597, 39500), (608, 39476), (625, 39464), (648, 39443), (652, 39428), (653, 39419), (663, 39398), (694, 39359), (698, 39350), (705, 39335), (733, 39284), (770, 39212), (793, 39170), (805, 39152), (839, 39056), (850, 39005), (858, 38975), (866, 38942), (884, 38885), (889, 38870),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 221

Candidate Starts for FelixAlejandro_64:

(94, 54415), (112, 54364), (153, 54259), (169, 54229), (Start: 194 @54196 has 3 MA's), (Start: 203 @54187 has 1 MA's), (Start: 221 @54160 has 28 MA's), (277, 54028), (288, 53992), (306, 53950), (312, 53932), (329, 53902), (334, 53890), (342, 53878), (346, 53872), (362, 53851), (465, 53683), (499, 53596), (504, 53581), (507, 53569), (521, 53539), (542, 53488), (581, 53410), (594, 53386), (603, 53368), (609, 53350), (623, 53347), (627, 53338), (648, 53320), (689, 53233), (756, 53098), (763, 53083), (773, 53062), (826, 52981), (827, 52978), (844, 52921), (845, 52915), (847, 52903), (859, 52852), (864, 52828), (874, 52789), (878, 52777), (880, 52774), (919, 52681), (925, 52666), (931, 52645),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 247

Candidate Starts for Figueroism_41:

(125, 31330), (Start: 247 @31108 has 139 MA's), (308, 30964), (Start: 310 @30958 has 1 MA's), (311, 30955), (389, 30841), (404, 30814), (430, 30754), (457, 30727), (462, 30724), (499, 30628), (511, 30586), (584, 30415), (600, 30394), (608, 30379), (625, 30367), (655, 30319), (701, 30259), (753, 30163), (789, 30100), (820, 30046), (845, 29962), (846, 29956), (848, 29944), (872, 29848), (890,

29794), (891, 29791), (900, 29767),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 266

Candidate Starts for Finny_41:

(Start: 249 @30940 has 8 MA's), (Start: 253 @30937 has 24 MA's), (265, 30907), (Start: 266 @30901 has 1 MA's), (276, 30868), (389, 30676), (404, 30649), (430, 30589), (457, 30562), (462, 30559), (475, 30517), (499, 30463), (511, 30421), (557, 30307), (584, 30250), (600, 30229), (625, 30202), (642, 30190), (645, 30187), (651, 30169), (685, 30088), (701, 30052), (728, 29998), (750, 29956), (768, 29926), (784, 29902), (786, 29896), (816, 29854), (836, 29785), (844, 29761), (845, 29755), (846, 29749), (848, 29737), (882, 29614), (885, 29602), (902, 29557),

Gene: FireCastle_33 Start: 23203, Stop: 24633, Start Num: 216

Candidate Starts for FireCastle_33:

(162, 23134), (Start: 216 @23203 has 1 MA's), (Start: 219 @23206 has 74 MA's), (377, 23524), (403, 23563), (409, 23584), (464, 23671), (470, 23692), (624, 24007), (646, 24028), (655, 24055), (685, 24082), (686, 24085), (698, 24112), (701, 24118), (717, 24154), (758, 24202), (772, 24232), (819, 24316), (827, 24337), (844, 24391), (847, 24409), (849, 24424), (853, 24436), (863, 24475), (870, 24511), (872, 24517), (876, 24529), (898, 24592), (917, 24628),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 221

Candidate Starts for Flakey_58:

(94, 52585), (112, 52534), (129, 52483), (153, 52429), (169, 52399), (Start: 194 @52366 has 3 MA's), (Start: 203 @52357 has 1 MA's), (Start: 221 @52330 has 28 MA's), (288, 52162), (306, 52120), (329, 52072), (334, 52060), (342, 52048), (346, 52042), (362, 52021), (384, 51994), (465, 51853), (499, 51766), (504, 51751), (507, 51739), (521, 51709), (542, 51658), (554, 51631), (581, 51580), (603, 51538), (609, 51520), (623, 51517), (648, 51490), (662, 51448), (689, 51403), (756, 51268), (763, 51253), (773, 51232), (819, 51175), (826, 51151), (827, 51148), (844, 51091), (845, 51085), (846, 51079), (847, 51073), (859, 51022), (864, 50998), (874, 50959), (878, 50947), (880, 50944), (919, 50851), (925, 50836), (931, 50815),

Gene: Flapper_75 Start: 57019, Stop: 54962, Start Num: 38

Candidate Starts for Flapper_75:

(7, 57304), (12, 57187), (15, 57169), (Start: 38 @57019 has 35 MA's), (116, 56794), (274, 56506), (292, 56452), (308, 56416), (321, 56392), (323, 56389), (368, 56311), (374, 56299), (389, 56281), (413, 56236), (416, 56230), (439, 56191), (471, 56137), (484, 56098), (492, 56080), (542, 55933), (553, 55900), (565, 55870), (568, 55864), (580, 55837), (649, 55714), (683, 55645), (691, 55627), (735, 55522), (740, 55513), (749, 55495), (771, 55453), (782, 55414), (796, 55384), (804, 55366), (820, 55327), (836, 55267), (845, 55237), (851, 55204), (862, 55162), (919, 55006),

Gene: Float294_74 Start: 57824, Stop: 55767, Start Num: 38

Candidate Starts for Float294_74:

(11, 58004), (Start: 38 @57824 has 35 MA's), (195, 57449), (Start: 266 @57341 has 1 MA's), (275, 57308), (292, 57257), (321, 57197), (323, 57194), (364, 57122), (374, 57104), (413, 57041), (416, 57035), (431, 57008), (471, 56942), (484, 56903), (492, 56885), (500, 56861), (542, 56738), (553, 56705), (580, 56642), (649, 56519), (683, 56450), (691, 56432), (735, 56327), (771, 56258), (782, 56219), (793, 56195), (796, 56189), (820, 56132), (836, 56072), (845, 56042), (851, 56009), (899, 55844),

Gene: FloraSnap32_101 Start: 79635, Stop: 81473, Start Num: 148

Candidate Starts for FloraSnap32_101:

(Start: 148 @79635 has 12 MA's), (245, 79794), (280, 79890), (329, 79950), (346, 79980), (408, 80100), (433, 80151), (463, 80211), (602, 80607), (610, 80628), (625, 80673), (638, 80730), (639, 80736), (651, 80769), (653, 80781), (659, 80793), (668, 80808), (682, 80838), (697, 80877), (754,

80934), (759, 80940), (773, 80973), (808, 81042), (832, 81126), (847, 81198), (857, 81243), (912, 81417), (930, 81459),

Gene: Fluke_29 Start: 22148, Stop: 23548, Start Num: 219

Candidate Starts for Fluke_29:

(Start: 219 @22148 has 74 MA's), (254, 22211), (Start: 289 @22316 has 1 MA's), (290, 22319), (329, 22403), (359, 22436), (401, 22487), (404, 22493), (449, 22574), (451, 22577), (452, 22583), (470, 22619), (475, 22637), (476, 22640), (489, 22673), (499, 22694), (505, 22712), (522, 22745), (560, 22826), (576, 22853), (597, 22883), (602, 22892), (624, 22919), (651, 22952), (655, 22967), (698, 23021), (707, 23042), (712, 23054), (722, 23066), (838, 23288), (841, 23297), (843, 23303), (849, 23339), (864, 23399), (870, 23426), (903, 23516),

Gene: Forza_170 Start: 96758, Stop: 94848, Start Num: 147

Candidate Starts for Forza_170:

(Start: 147 @96758 has 5 MA's), (264, 96554), (278, 96506), (296, 96461), (333, 96380), (341, 96368), (401, 96263), (408, 96236), (460, 96131), (468, 96107), (526, 95942), (621, 95675), (625, 95666), (634, 95639), (651, 95570), (773, 95321), (801, 95255), (815, 95231), (846, 95096), (860, 95036), (878, 94964),

Gene: FountainFog_39 Start: 25221, Stop: 27128, Start Num: 69

Candidate Starts for FountainFog_39:

(Start: 69 @25221 has 45 MA's), (85, 25284), (98, 25305), (116, 25359), (209, 25521), (218, 25536), (Start: 252 @25581 has 1 MA's), (314, 25755), (323, 25764), (374, 25854), (376, 25857), (400, 25896), (406, 25911), (486, 26097), (524, 26205), (534, 26232), (540, 26244), (649, 26406), (705, 26523), (836, 26832), (837, 26835), (850, 26895), (871, 26985), (882, 27015), (895, 27057), (923, 27108),

Gene: Fowlmouth_74 Start: 44820, Stop: 46667, Start Num: 89

Candidate Starts for Fowlmouth_74:

(Start: 89 @44820 has 3 MA's), (100, 44838), (111, 44874), (133, 44925), (195, 45033), (218, 45066), (260, 45126), (271, 45168), (284, 45207), (326, 45303), (331, 45315), (348, 45342), (356, 45357), (361, 45366), (390, 45405), (397, 45420), (434, 45507), (442, 45519), (489, 45618), (492, 45624), (500, 45648), (518, 45708), (551, 45786), (562, 45813), (574, 45843), (580, 45855), (593, 45879), (647, 45951), (649, 45957), (659, 45990), (665, 46005), (685, 46029), (686, 46032), (697, 46056), (836, 46380), (839, 46389), (846, 46416), (850, 46440), (862, 46485), (870, 46527), (886, 46575), (892, 46593), (922, 46650),

Gene: Foxboro_72 Start: 56919, Stop: 54853, Start Num: 38

Candidate Starts for Foxboro_72:

(9, 57123), (10, 57111), (12, 57093), (Start: 38 @56919 has 35 MA's), (Start: 82 @56781 has 2 MA's), (87, 56757), (182, 56553), (215, 56508), (274, 56400), (321, 56286), (323, 56283), (374, 56193), (376, 56190), (413, 56130), (484, 55992), (492, 55974), (500, 55950), (542, 55827), (580, 55722), (649, 55596), (667, 55542), (731, 55416), (735, 55407), (748, 55383), (779, 55311), (782, 55305), (796, 55275), (820, 55218), (836, 55158), (851, 55095), (870, 55014),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 69

Candidate Starts for FreddieHg_40:

(19, 25011), (Start: 69 @25185 has 45 MA's), (85, 25248), (98, 25269), (116, 25323), (186, 25458), (218, 25500), (Start: 252 @25545 has 1 MA's), (314, 25719), (323, 25728), (374, 25818), (400, 25860), (406, 25875), (486, 26061), (534, 26196), (540, 26208), (556, 26241), (649, 26370), (705, 26487), (826, 26760), (837, 26799), (850, 26859), (871, 26949), (882, 26979), (895, 27021), (923, 27072),

Gene: Fribs8_48 Start: 37679, Stop: 36189, Start Num: 199

Candidate Starts for Fribs8_48:

(Start: 199 @37679 has 3 MA's), (255, 37595), (257, 37589), (Start: 266 @37562 has 1 MA's), (283, 37508), (286, 37502), (299, 37472), (Start: 310 @37445 has 1 MA's), (362, 37364), (364, 37361), (368, 37355), (389, 37334), (417, 37268), (462, 37232), (470, 37208), (479, 37178), (480, 37175), (481, 37172), (484, 37166), (509, 37103), (512, 37088), (518, 37073), (572, 36947), (597, 36899), (648, 36842), (651, 36830), (653, 36818), (655, 36815), (685, 36779), (694, 36758), (695, 36755), (702, 36740), (715, 36713), (728, 36677), (733, 36668), (768, 36599), (793, 36554), (819, 36509), (823, 36494), (831, 36464), (839, 36440), (850, 36389), (858, 36359), (876, 36293), (884, 36269), (895, 36236), (913, 36200),

Gene: Frizzle_34 Start: 32091, Stop: 30688, Start Num: 228

Candidate Starts for Frizzle_34:

(104, 32331), (105, 32328), (Start: 148 @32217 has 12 MA's), (Start: 228 @32091 has 3 MA's), (265, 32016), (270, 31992), (271, 31989), (284, 31959), (286, 31956), (338, 31845), (403, 31770), (404, 31767), (409, 31749), (424, 31716), (425, 31713), (449, 31686), (464, 31662), (472, 31635), (523, 31509), (525, 31506), (587, 31383), (589, 31380), (607, 31350), (608, 31347), (683, 31263), (705, 31218), (793, 31071), (814, 31041), (816, 31038), (872, 30819), (882, 30777),

Gene: FrostedClock_104 Start: 80935, Stop: 82773, Start Num: 148

Candidate Starts for FrostedClock_104:

(Start: 148 @80935 has 12 MA's), (197, 81016), (245, 81094), (280, 81190), (329, 81250), (346, 81280), (408, 81400), (433, 81451), (463, 81511), (577, 81850), (602, 81907), (610, 81928), (625, 81973), (638, 82030), (639, 82036), (651, 82069), (653, 82081), (659, 82093), (682, 82138), (697, 82177), (754, 82234), (759, 82240), (773, 82273), (808, 82342), (832, 82426), (857, 82543), (912, 82717), (930, 82759),

Gene: Fulcrum_60 Start: 40439, Stop: 42352, Start Num: 58

Candidate Starts for Fulcrum_60:

(20, 40313), (23, 40322), (24, 40334), (35, 40367), (Start: 57 @40436 has 13 MA's), (Start: 58 @40439 has 58 MA's), (Start: 69 @40451 has 45 MA's), (81, 40499), (94, 40532), (120, 40601), (158, 40691), (176, 40718), (182, 40727), (236, 40799), (286, 40919), (311, 40982), (367, 41072), (385, 41099), (463, 41228), (470, 41252), (484, 41294), (495, 41321), (502, 41342), (508, 41363), (514, 41384), (534, 41441), (542, 41459), (557, 41495), (574, 41537), (604, 41597), (659, 41693), (660, 41696), (792, 41924), (826, 42014), (836, 42050), (838, 42056), (850, 42110), (861, 42149), (888, 42251), (893, 42266), (902, 42287),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 250

Candidate Starts for Fulton_40:

(Start: 250 @29072 has 24 MA's), (263, 29042), (265, 29036), (Start: 310 @28922 has 1 MA's), (311, 28919), (457, 28682), (462, 28679), (557, 28424), (582, 28373), (584, 28367), (625, 28319), (651, 28286), (655, 28271), (689, 28199), (701, 28172), (705, 28163), (728, 28118), (732, 28112), (746, 28085), (789, 28013), (826, 27941), (836, 27905), (839, 27896), (844, 27881), (845, 27875), (848, 27857), (858, 27815), (875, 27752), (896, 27689), (900, 27680),

Gene: Fury_82 Start: 56141, Stop: 54093, Start Num: 38

Candidate Starts for Fury_82:

(Start: 38 @56141 has 35 MA's), (84, 55988), (96, 55973), (127, 55892), (195, 55769), (215, 55739), (274, 55631), (286, 55598), (306, 55547), (323, 55514), (374, 55424), (397, 55391), (413, 55361), (465, 55286), (492, 55205), (508, 55154), (542, 55058), (553, 55025), (568, 54989), (580, 54962), (647, 54845), (649, 54839), (683, 54770), (691, 54752), (697, 54740), (771, 54578), (782, 54545), (796, 54515), (803, 54500), (820, 54458), (851, 54335), (870, 54254), (881, 54230), (899, 54170),

Gene: GMA2_64 Start: 67776, Stop: 65812, Start Num: 148

Candidate Starts for GMA2_64:

(Start: 148 @67776 has 12 MA's), (231, 67644), (333, 67386), (401, 67269), (404, 67263), (408, 67242), (429, 67197), (460, 67137), (468, 67113), (479, 67077), (505, 67011), (516, 66972), (535, 66918), (552, 66864), (619, 66684), (625, 66672), (651, 66576), (657, 66558), (679, 66504), (746, 66342), (815, 66198), (838, 66093), (851, 66036), (860, 66003), (902, 65859),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 243

Candidate Starts for GMA3_58:

(Start: 114 @51117 has 3 MA's), (116, 51111), (143, 51039), (Start: 243 @50868 has 3 MA's), (280, 50772), (288, 50745), (297, 50727), (301, 50718), (313, 50691), (329, 50673), (346, 50643), (368, 50613), (381, 50592), (395, 50571), (432, 50493), (453, 50463), (463, 50448), (469, 50427), (505, 50334), (519, 50298), (542, 50244), (581, 50166), (623, 50103), (648, 50076), (652, 50061), (653, 50052), (694, 49989), (711, 49950), (741, 49890), (752, 49869), (754, 49866), (756, 49863), (777, 49815), (836, 49653), (847, 49611), (858, 49563), (874, 49497), (878, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 132

Candidate Starts for GMA7_51:

(Start: 132 @46927 has 3 MA's), (137, 46915), (163, 46864), (167, 46858), (212, 46801), (288, 46660), (306, 46618), (Start: 310 @46606 has 1 MA's), (329, 46570), (330, 46567), (346, 46540), (371, 46504), (384, 46492), (395, 46477), (453, 46369), (499, 46264), (504, 46249), (557, 46126), (581, 46078), (594, 46054), (603, 46036), (648, 45988), (665, 45937), (689, 45901), (697, 45883), (756, 45766), (787, 45715), (819, 45673), (836, 45613), (847, 45571), (859, 45520), (864, 45496), (925, 45334), (931, 45313),

Gene: GOATification_60 Start: 40439, Stop: 42352, Start Num: 58

Candidate Starts for GOATification_60:

(20, 40313), (23, 40322), (24, 40334), (35, 40367), (Start: 57 @40436 has 13 MA's), (Start: 58 @40439 has 58 MA's), (Start: 69 @40451 has 45 MA's), (81, 40499), (94, 40532), (120, 40601), (158, 40691), (176, 40718), (182, 40727), (236, 40799), (286, 40919), (311, 40982), (367, 41072), (385, 41099), (463, 41228), (470, 41252), (484, 41294), (495, 41321), (502, 41342), (508, 41363), (514, 41384), (534, 41441), (542, 41459), (557, 41495), (574, 41537), (604, 41597), (659, 41693), (660, 41696), (792, 41924), (826, 42014), (836, 42050), (838, 42056), (850, 42110), (861, 42149), (888, 42251), (893, 42266), (902, 42287),

Gene: GRU1_61 Start: 48864, Stop: 46807, Start Num: 38

Candidate Starts for GRU1_61:

(12, 49032), (Start: 38 @48864 has 35 MA's), (260, 48402), (274, 48351), (321, 48237), (323, 48234), (368, 48156), (374, 48144), (389, 48126), (413, 48081), (416, 48075), (439, 48036), (471, 47982), (484, 47943), (492, 47925), (542, 47778), (553, 47745), (568, 47709), (580, 47682), (649, 47559), (683, 47490), (691, 47472), (701, 47451), (735, 47367), (771, 47298), (782, 47259), (796, 47229), (820, 47172), (836, 47112), (845, 47082), (851, 47049), (862, 47007), (919, 46851),

Gene: GTE2_44 Start: 38337, Stop: 36952, Start Num: 257

Candidate Starts for GTE2_44:

(Start: 198 @38430 has 49 MA's), (257, 38337), (Start: 266 @38310 has 1 MA's), (290, 38235), (299, 38220), (Start: 310 @38193 has 1 MA's), (362, 38112), (462, 37980), (479, 37926), (481, 37920), (484, 37914), (512, 37836), (559, 37722), (572, 37695), (605, 37632), (653, 37566), (663, 37545), (694, 37506), (702, 37488), (705, 37482), (766, 37371), (793, 37323), (805, 37305), (839, 37209), (845, 37188), (850, 37158),

Gene: GTE5_60 Start: 49067, Stop: 47640, Start Num: 323

Candidate Starts for GTE5_60:

(7, 49982), (12, 49865), (15, 49847), (Start: 38 @49697 has 35 MA's), (116, 49472), (274, 49184), (292, 49130), (308, 49094), (323, 49067), (368, 48989), (374, 48977), (389, 48959), (413, 48914),

(416, 48908), (439, 48869), (471, 48815), (484, 48776), (492, 48758), (542, 48611), (553, 48578), (565, 48548), (568, 48542), (580, 48515), (649, 48392), (683, 48323), (691, 48305), (735, 48200), (740, 48191), (749, 48173), (771, 48131), (782, 48092), (796, 48062), (820, 48005), (836, 47945), (845, 47915), (851, 47882), (862, 47840), (919, 47684),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 132

Candidate Starts for GTE7_50:

(Start: 132 @46958 has 3 MA's), (137, 46946), (163, 46895), (167, 46889), (212, 46832), (288, 46691), (306, 46649), (Start: 310 @46637 has 1 MA's), (329, 46601), (330, 46598), (346, 46571), (384, 46523), (395, 46508), (453, 46400), (499, 46295), (504, 46280), (557, 46157), (581, 46109), (594, 46085), (603, 46067), (648, 46019), (665, 45968), (689, 45932), (697, 45914), (756, 45797), (787, 45746), (819, 45704), (836, 45644), (847, 45602), (859, 45551), (864, 45527), (925, 45365), (931, 45344),

Gene: GTE8_60 Start: 49561, Stop: 47633, Start Num: 82

Candidate Starts for GTE8_60:

(9, 49903), (12, 49873), (18, 49798), (Start: 38 @49699 has 35 MA's), (Start: 82 @49561 has 2 MA's), (87, 49537), (215, 49288), (274, 49180), (321, 49066), (323, 49063), (374, 48973), (376, 48970), (413, 48910), (492, 48754), (495, 48745), (500, 48730), (542, 48607), (580, 48502), (593, 48478), (649, 48376), (667, 48322), (686, 48301), (735, 48187), (779, 48091), (782, 48085), (796, 48055), (815, 48016), (820, 47998), (836, 47938), (851, 47875), (870, 47794), (899, 47710),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 247

Candidate Starts for GaeCeo_42:

(Start: 247 @31326 has 139 MA's), (308, 31182), (Start: 310 @31176 has 1 MA's), (346, 31113), (404, 31032), (430, 30972), (457, 30945), (462, 30942), (466, 30936), (499, 30846), (511, 30804), (584, 30633), (600, 30612), (608, 30597), (625, 30585), (657, 30534), (701, 30477), (706, 30465), (789, 30315), (795, 30303), (826, 30243), (836, 30207), (838, 30201), (844, 30183), (845, 30177), (846, 30171), (858, 30117), (866, 30084), (872, 30063), (885, 30024),

Gene: Gagieri_70 Start: 52937, Stop: 50901, Start Num: 40

Candidate Starts for Gagieri_70:

(3, 53405), (4, 53399), (Start: 40 @52937 has 6 MA's), (76, 52829), (215, 52544), (260, 52487), (274, 52436), (280, 52421), (314, 52331), (323, 52319), (335, 52292), (374, 52226), (418, 52154), (442, 52112), (466, 52085), (489, 52013), (508, 51956), (580, 51776), (593, 51752), (620, 51689), (649, 51653), (691, 51566), (749, 51434), (769, 51395), (771, 51392), (820, 51260), (836, 51200), (851, 51137), (862, 51095), (881, 51032),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 273

Candidate Starts for GalacticEye_57:

(94, 52918), (142, 52789), (191, 52702), (Start: 194 @52699 has 3 MA's), (Start: 273 @52570 has 28 MA's), (288, 52525), (329, 52435), (330, 52432), (333, 52426), (346, 52405), (395, 52342), (453, 52234), (465, 52216), (499, 52129), (504, 52114), (521, 52072), (557, 51991), (581, 51943), (603, 51901), (609, 51883), (623, 51880), (648, 51853), (665, 51802), (689, 51766), (711, 51715), (756, 51631), (765, 51610), (844, 51454), (845, 51448), (847, 51436), (878, 51310), (925, 51196),

Gene: Gallia_72 Start: 56704, Stop: 54734, Start Num: 67

Candidate Starts for Gallia_72:

(Start: 67 @56704 has 8 MA's), (115, 56566), (193, 56410), (275, 56266), (314, 56164), (374, 56059), (466, 55918), (495, 55831), (565, 55624), (574, 55603), (597, 55555), (649, 55459), (659, 55426), (692, 55369), (697, 55360), (782, 55171), (792, 55150), (846, 54988), (851, 54961), (865, 54898), (870, 54880),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 247

Candidate Starts for GardenB_40:

(231, 31255), (Start: 247 @31225 has 139 MA's), (299, 31102), (308, 31081), (Start: 310 @31075 has 1 MA's), (311, 31072), (389, 30958), (430, 30871), (457, 30844), (462, 30841), (499, 30745), (511, 30703), (584, 30532), (608, 30496), (701, 30376), (711, 30352), (789, 30217), (820, 30163), (838, 30103), (845, 30079), (846, 30073), (848, 30061), (872, 29965), (890, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 247

Candidate Starts for Garey24_41:

(125, 31004), (Start: 247 @30782 has 139 MA's), (308, 30638), (Start: 310 @30632 has 1 MA's), (311, 30629), (389, 30515), (404, 30488), (430, 30428), (457, 30401), (462, 30398), (499, 30302), (511, 30260), (584, 30089), (600, 30068), (608, 30053), (625, 30041), (655, 29993), (701, 29933), (789, 29774), (820, 29720), (845, 29636), (846, 29630), (848, 29618), (866, 29543), (872, 29522), (890, 29468), (891, 29465), (900, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 247

Candidate Starts for Gargoyle_41:

(14, 31774), (97, 31420), (125, 31345), (Start: 247 @31123 has 139 MA's), (308, 30979), (Start: 310 @30973 has 1 MA's), (311, 30970), (389, 30856), (404, 30829), (430, 30769), (457, 30742), (462, 30739), (499, 30643), (511, 30601), (584, 30430), (600, 30409), (608, 30394), (655, 30334), (701, 30274), (753, 30178), (789, 30115), (820, 30061), (845, 29977), (846, 29971), (848, 29959), (872, 29863), (890, 29809), (891, 29806), (900, 29782),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 247

Candidate Starts for Gelo_40:

(125, 31031), (Start: 247 @30809 has 139 MA's), (308, 30665), (Start: 310 @30659 has 1 MA's), (311, 30656), (389, 30542), (404, 30515), (430, 30455), (457, 30428), (462, 30425), (499, 30329), (511, 30287), (584, 30116), (600, 30095), (608, 30080), (625, 30068), (655, 30020), (701, 29960), (753, 29864), (789, 29801), (820, 29747), (845, 29663), (846, 29657), (848, 29645), (866, 29570), (872, 29549), (890, 29495), (891, 29492), (900, 29468),

Gene: Genamy16_63 Start: 39814, Stop: 41730, Start Num: 57

Candidate Starts for Genamy16_63:

(Start: 57 @39814 has 13 MA's), (Start: 58 @39817 has 58 MA's), (Start: 69 @39829 has 45 MA's), (81, 39877), (94, 39910), (150, 40051), (158, 40069), (176, 40096), (182, 40105), (236, 40177), (286, 40297), (311, 40360), (367, 40450), (385, 40477), (463, 40606), (470, 40630), (484, 40672), (489, 40684), (495, 40699), (502, 40720), (508, 40741), (514, 40762), (534, 40819), (542, 40837), (557, 40873), (574, 40915), (604, 40975), (659, 41071), (660, 41074), (764, 41251), (792, 41302), (826, 41392), (836, 41428), (838, 41434), (850, 41488), (861, 41527), (888, 41629), (893, 41644), (902, 41665),

Gene: Gerri43_38 Start: 26376, Stop: 24544, Start Num: 151

Candidate Starts for Gerri43_38:

(Start: 151 @26376 has 19 MA's), (184, 26319), (283, 26118), (354, 25983), (423, 25848), (437, 25821), (465, 25764), (468, 25749), (487, 25695), (516, 25599), (518, 25593), (524, 25578), (539, 25533), (552, 25485), (558, 25464), (566, 25446), (588, 25395), (619, 25302), (625, 25290), (639, 25227), (676, 25155), (704, 25095), (713, 25074), (773, 25008), (782, 24990), (791, 24972), (792, 24969), (811, 24933), (836, 24825), (839, 24816), (853, 24756), (864, 24708),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for Gershwin_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (498, 30339), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (625, 30075), (655, 30027), (701,

29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (866, 29577), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: Ghobes_35 Start: 32092, Stop: 30689, Start Num: 228

Candidate Starts for Ghobes_35:

(104, 32332), (105, 32329), (Start: 148 @32218 has 12 MA's), (Start: 228 @32092 has 3 MA's), (265, 32017), (270, 31993), (271, 31990), (284, 31960), (286, 31957), (338, 31846), (403, 31771), (404, 31768), (424, 31717), (425, 31714), (449, 31687), (464, 31663), (472, 31636), (523, 31510), (525, 31507), (587, 31384), (589, 31381), (607, 31351), (608, 31348), (683, 31264), (705, 31219), (768, 31117), (793, 31072), (814, 31042), (816, 31039), (844, 30946), (846, 30934), (872, 30820), (882, 30778),

Gene: GiKK_57 Start: 39360, Stop: 37885, Start Num: 202

Candidate Starts for GiKK_57:

(Start: 202 @39360 has 10 MA's), (230, 39318), (257, 39270), (Start: 266 @39243 has 1 MA's), (283, 39189), (290, 39168), (293, 39159), (299, 39153), (346, 39069), (353, 39060), (364, 39042), (368, 39036), (462, 38913), (479, 38859), (481, 38853), (484, 38847), (504, 38802), (512, 38769), (608, 38556), (648, 38523), (660, 38484), (694, 38439), (702, 38421), (705, 38415), (730, 38370), (733, 38364), (745, 38343), (768, 38295), (770, 38292), (793, 38250), (794, 38247), (805, 38232), (839, 38136), (850, 38085), (851, 38082), (866, 38022), (876, 37989), (882, 37974), (884, 37965), (900, 37920), (911, 37899),

Gene: Gibbin_62 Start: 41245, Stop: 43161, Start Num: 57

Candidate Starts for Gibbin_62:

(20, 41122), (23, 41131), (24, 41143), (35, 41176), (Start: 50 @41233 has 1 MA's), (Start: 57 @41245 has 13 MA's), (Start: 58 @41248 has 58 MA's), (Start: 69 @41260 has 45 MA's), (81, 41308), (94, 41341), (120, 41410), (158, 41500), (176, 41527), (182, 41536), (236, 41608), (274, 41695), (286, 41728), (311, 41791), (367, 41881), (463, 42037), (470, 42061), (484, 42103), (502, 42151), (508, 42172), (514, 42193), (534, 42250), (542, 42268), (557, 42304), (574, 42346), (604, 42406), (659, 42502), (660, 42505), (792, 42733), (826, 42823), (836, 42859), (838, 42865), (850, 42919), (861, 42958), (888, 43060), (893, 43075), (902, 43096),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 239

Candidate Starts for Gibbles_56:

(Start: 239 @50443 has 5 MA's), (277, 50350), (280, 50341), (283, 50329), (288, 50314), (297, 50296), (330, 50239), (376, 50167), (378, 50164), (419, 50071), (441, 50038), (461, 50005), (463, 50002), (469, 49981), (499, 49912), (511, 49876), (549, 49789), (574, 49738), (581, 49726), (583, 49723), (598, 49693), (652, 49621), (653, 49612), (724, 49489), (728, 49483), (827, 49309), (840, 49264), (847, 49234), (927, 48982),

Gene: Gibbous_48 Start: 37401, Stop: 35911, Start Num: 199

Candidate Starts for Gibbous_48:

(Start: 199 @37401 has 3 MA's), (230, 37359), (255, 37317), (257, 37311), (Start: 266 @37284 has 1 MA's), (283, 37230), (286, 37224), (299, 37194), (Start: 310 @37167 has 1 MA's), (362, 37086), (364, 37083), (368, 37077), (389, 37056), (417, 36990), (462, 36954), (470, 36930), (479, 36900), (481, 36894), (484, 36888), (509, 36825), (512, 36810), (518, 36795), (572, 36669), (611, 36591), (651, 36552), (653, 36540), (655, 36537), (685, 36501), (692, 36483), (694, 36480), (695, 36477), (702, 36462), (715, 36435), (719, 36423), (768, 36321), (793, 36276), (794, 36273), (819, 36231), (823, 36216), (837, 36168), (839, 36162), (850, 36111), (876, 36015), (884, 35991), (895, 35958), (911, 35925), (913, 35922),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 56

Candidate Starts for Gibson_70:

(Start: 56 @50318 has 8 MA's), (Start: 69 @50303 has 45 MA's), (85, 50240), (Start: 91 @50231 has 1 MA's), (134, 50126), (Start: 151 @50087 has 19 MA's), (160, 50063), (218, 49988), (236, 49964), (295, 49805), (314, 49766), (323, 49757), (387, 49649), (442, 49541), (502, 49388), (517, 49337), (540, 49277), (578, 49190), (580, 49187), (659, 49082), (663, 49073), (667, 49061), (720, 48962), (792, 48845), (798, 48833), (811, 48806), (837, 48716), (842, 48701), (853, 48647), (865, 48590), (902, 48482), (910, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 69

Candidate Starts for Gilda_40:

(Start: 69 @25935 has 45 MA's), (85, 25998), (98, 26019), (116, 26073), (218, 26250), (Start: 252 @26295 has 1 MA's), (314, 26469), (323, 26478), (374, 26568), (406, 26625), (486, 26811), (534, 26946), (540, 26958), (556, 26991), (649, 27120), (705, 27237), (749, 27312), (836, 27546), (837, 27549), (850, 27609), (871, 27699), (882, 27729), (895, 27771), (923, 27822),

Gene: Gisselle_25 Start: 20615, Stop: 22009, Start Num: 219

Candidate Starts for Gisselle_25:

(Start: 219 @20615 has 74 MA's), (254, 20672), (Start: 289 @20777 has 1 MA's), (290, 20780), (329, 20864), (359, 20897), (403, 20951), (404, 20954), (452, 21044), (470, 21080), (476, 21101), (489, 21134), (499, 21155), (560, 21287), (576, 21314), (602, 21353), (624, 21380), (651, 21413), (655, 21428), (659, 21437), (698, 21482), (714, 21518), (770, 21599), (784, 21623), (793, 21641), (803, 21653), (827, 21713), (834, 21737), (836, 21743), (837, 21746), (843, 21764), (844, 21767), (848, 21791), (849, 21800), (870, 21887), (887, 21938), (903, 21977),

Gene: Giuseppe_53 Start: 39718, Stop: 41661, Start Num: 58

Candidate Starts for Giuseppe_53:

(Start: 58 @39718 has 58 MA's), (72, 39745), (Start: 95 @39817 has 1 MA's), (115, 39871), (138, 39931), (145, 39949), (150, 39958), (180, 40009), (210, 40051), (236, 40087), (274, 40174), (308, 40267), (316, 40282), (328, 40303), (399, 40405), (411, 40438), (424, 40462), (466, 40522), (495, 40609), (518, 40684), (557, 40774), (580, 40825), (582, 40828), (628, 40918), (649, 40936), (659, 40969), (691, 41023), (697, 41035), (705, 41053), (735, 41116), (779, 41200), (826, 41317), (836, 41365), (851, 41428), (870, 41512),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 253

Candidate Starts for Glamour_40:

(Start: 253 @31091 has 24 MA's), (265, 31061), (Start: 266 @31055 has 1 MA's), (276, 31022), (389, 30830), (404, 30803), (430, 30743), (457, 30716), (462, 30713), (475, 30671), (499, 30617), (511, 30575), (557, 30461), (584, 30404), (600, 30383), (608, 30368), (625, 30356), (642, 30344), (645, 30341), (651, 30323), (685, 30242), (701, 30206), (728, 30152), (750, 30110), (768, 30080), (784, 30056), (786, 30050), (816, 30008), (836, 29939), (844, 29915), (845, 29909), (846, 29903), (848, 29891), (872, 29795), (875, 29786), (882, 29768), (885, 29756), (902, 29711),

Gene: Glenn_29 Start: 22157, Stop: 23557, Start Num: 219

Candidate Starts for Glenn_29:

(Start: 219 @22157 has 74 MA's), (254, 22220), (Start: 289 @22325 has 1 MA's), (290, 22328), (329, 22412), (359, 22445), (401, 22496), (404, 22502), (449, 22583), (451, 22586), (452, 22592), (470, 22628), (475, 22646), (476, 22649), (489, 22682), (499, 22703), (505, 22721), (522, 22754), (560, 22835), (576, 22862), (597, 22892), (602, 22901), (624, 22928), (651, 22961), (655, 22976), (698, 23030), (707, 23051), (712, 23063), (722, 23075), (838, 23297), (841, 23306), (843, 23312), (849, 23348), (864, 23408), (870, 23435), (903, 23525),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 234

Candidate Starts for Gmala1_55:

(234, 48612), (280, 48507), (288, 48480), (313, 48426), (329, 48408), (368, 48348), (373, 48339), (404, 48288), (414, 48264), (420, 48252), (424, 48246), (453, 48201), (463, 48186), (469, 48165), (470, 48162), (507, 48063), (519, 48036), (557, 47952), (569, 47928), (581, 47904), (598, 47871), (653, 47790), (686, 47742), (694, 47727), (738, 47634), (752, 47607), (754, 47604), (785, 47520), (802, 47484), (810, 47469), (826, 47424), (846, 47352), (847, 47346), (882, 47205), (927, 47106), (928, 47103),

Gene: GodonK_184 Start: 93693, Stop: 91774, Start Num: 151

Candidate Starts for GodonK_184:

(Start: 151 @93693 has 19 MA's), (Start: 171 @93651 has 2 MA's), (245, 93537), (272, 93462), (300, 93393), (333, 93324), (468, 93051), (474, 93033), (481, 93009), (498, 92970), (555, 92790), (592, 92706), (600, 92682), (619, 92622), (625, 92610), (634, 92583), (651, 92514), (652, 92511), (747, 92295), (759, 92277), (761, 92271), (788, 92205), (809, 92166), (815, 92154), (822, 92127), (839, 92046), (847, 92013), (851, 91992), (860, 91959), (872, 91908), (878, 91890),

Gene: GoingMerry_42 Start: 31128, Stop: 29740, Start Num: 247

Candidate Starts for GoingMerry_42:

(97, 31425), (125, 31350), (Start: 247 @31128 has 139 MA's), (308, 30984), (Start: 310 @30978 has 1 MA's), (311, 30975), (389, 30861), (404, 30834), (430, 30774), (457, 30747), (462, 30744), (499, 30648), (511, 30606), (584, 30435), (600, 30414), (625, 30387), (655, 30339), (701, 30279), (789, 30120), (820, 30066), (845, 29982), (846, 29976), (848, 29964), (872, 29868), (890, 29814), (891, 29811), (900, 29787),

Gene: GoldHunter_54 Start: 38843, Stop: 37365, Start Num: 198

Candidate Starts for GoldHunter_54:

(Start: 198 @38843 has 49 MA's), (255, 38756), (257, 38750), (283, 38669), (290, 38648), (362, 38525), (364, 38522), (479, 38339), (481, 38333), (484, 38327), (512, 38249), (559, 38135), (572, 38108), (584, 38084), (625, 38024), (653, 37979), (663, 37958), (694, 37919), (702, 37901), (766, 37784), (793, 37736), (794, 37733), (805, 37718), (839, 37622), (845, 37601), (850, 37571),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 249

Candidate Starts for Golden_39:

(Start: 249 @30647 has 8 MA's), (Start: 253 @30644 has 24 MA's), (265, 30614), (308, 30506), (311, 30497), (342, 30443), (401, 30362), (430, 30296), (462, 30266), (476, 30221), (499, 30170), (580, 29966), (584, 29957), (608, 29918), (625, 29906), (642, 29894), (645, 29891), (657, 29855), (661, 29846), (685, 29831), (701, 29795), (706, 29783), (711, 29771), (753, 29696), (789, 29636), (836, 29528), (839, 29519), (844, 29504), (845, 29498), (846, 29492), (919, 29270),

Gene: GoldenEssence_87 Start: 74530, Stop: 76368, Start Num: 148

Candidate Starts for GoldenEssence_87:

(Start: 148 @74530 has 12 MA's), (245, 74689), (280, 74785), (329, 74845), (346, 74875), (400, 74965), (408, 74995), (433, 75046), (463, 75106), (602, 75502), (610, 75523), (625, 75568), (638, 75625), (639, 75631), (651, 75664), (653, 75676), (659, 75688), (668, 75703), (682, 75733), (697, 75772), (754, 75829), (759, 75835), (773, 75868), (808, 75937), (832, 76021), (857, 76138), (912, 76312), (930, 76354),

Gene: GoneGirl_41 Start: 31218, Stop: 29833, Start Num: 247

Candidate Starts for GoneGirl_41:

(231, 31248), (Start: 247 @31218 has 139 MA's), (299, 31095), (308, 31074), (Start: 310 @31068 has 1 MA's), (311, 31065), (389, 30951), (430, 30864), (457, 30837), (462, 30834), (499, 30738), (511, 30696), (584, 30525), (608, 30489), (701, 30369), (711, 30345), (789, 30210), (820, 30156), (838, 30096), (845, 30072), (846, 30066), (848, 30054), (872, 29958), (890, 29904),

Gene: Goodman_34 Start: 23371, Stop: 24798, Start Num: 222

Candidate Starts for Goodman_34:

(Start: 222 @23371 has 17 MA's), (313, 23587), (377, 23689), (403, 23728), (430, 23791), (464, 23836), (470, 23857), (506, 23956), (587, 24124), (624, 24172), (646, 24193), (655, 24220), (685, 24247), (698, 24277), (701, 24283), (717, 24319), (772, 24397), (819, 24481), (826, 24499), (827, 24502), (849, 24589), (853, 24601), (863, 24640), (870, 24676), (872, 24682), (889, 24733), (898, 24757),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 234

Candidate Starts for GordDuk1_59:

(234, 49176), (280, 49071), (288, 49044), (313, 48990), (329, 48972), (368, 48912), (373, 48903), (404, 48852), (414, 48828), (420, 48816), (424, 48810), (453, 48765), (463, 48750), (469, 48729), (470, 48726), (507, 48627), (519, 48600), (557, 48516), (569, 48492), (581, 48468), (598, 48435), (603, 48426), (648, 48378), (653, 48354), (686, 48306), (738, 48198), (752, 48171), (785, 48084), (802, 48048), (810, 48033), (826, 47988), (846, 47916), (847, 47910), (927, 47670), (928, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 234

Candidate Starts for GordTnk2_60:

(234, 49330), (280, 49225), (288, 49198), (313, 49144), (329, 49126), (368, 49066), (373, 49057), (404, 49006), (414, 48982), (420, 48970), (424, 48964), (453, 48919), (463, 48904), (469, 48883), (470, 48880), (507, 48781), (519, 48754), (557, 48670), (569, 48646), (581, 48622), (598, 48589), (653, 48508), (686, 48460), (738, 48352), (752, 48325), (754, 48322), (785, 48238), (802, 48202), (810, 48187), (826, 48142), (846, 48070), (847, 48064), (882, 47923), (927, 47824), (928, 47821),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 221

Candidate Starts for Gorko_58:

(94, 51713), (112, 51662), (129, 51611), (153, 51557), (169, 51527), (Start: 194 @51494 has 3 MA's), (Start: 203 @51485 has 1 MA's), (Start: 221 @51458 has 28 MA's), (288, 51290), (306, 51248), (329, 51200), (334, 51188), (342, 51176), (346, 51170), (362, 51149), (384, 51122), (465, 50981), (499, 50894), (504, 50879), (507, 50867), (521, 50837), (542, 50786), (554, 50759), (581, 50708), (609, 50648), (623, 50645), (648, 50618), (662, 50576), (689, 50531), (756, 50396), (763, 50381), (773, 50360), (826, 50279), (827, 50276), (844, 50219), (845, 50213), (846, 50207), (847, 50201), (864, 50126), (874, 50087), (878, 50075), (880, 50072), (919, 49979), (925, 49964), (931, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 221

Candidate Starts for GourdThymes_59:

(94, 52587), (112, 52536), (129, 52485), (153, 52431), (169, 52401), (Start: 194 @52368 has 3 MA's), (Start: 203 @52359 has 1 MA's), (Start: 221 @52332 has 28 MA's), (288, 52164), (306, 52122), (329, 52074), (334, 52062), (342, 52050), (346, 52044), (362, 52023), (384, 51996), (465, 51855), (499, 51768), (504, 51753), (507, 51741), (521, 51711), (542, 51660), (554, 51633), (581, 51582), (594, 51558), (603, 51540), (609, 51522), (623, 51519), (648, 51492), (662, 51450), (689, 51405), (756, 51270), (763, 51255), (773, 51234), (819, 51177), (826, 51153), (827, 51150), (844, 51093), (845, 51087), (846, 51081), (847, 51075), (859, 51024), (864, 51000), (874, 50961), (878, 50949), (880, 50946), (919, 50853), (925, 50838), (931, 50817),

Gene: Graynor_30 Start: 22151, Stop: 23545, Start Num: 219

Candidate Starts for Graynor_30:

(Start: 219 @22151 has 74 MA's), (254, 22208), (Start: 289 @22313 has 1 MA's), (329, 22400), (403, 22487), (404, 22490), (452, 22580), (470, 22616), (473, 22625), (475, 22634), (499, 22691), (505, 22709), (522, 22742), (560, 22823), (576, 22850), (624, 22916), (651, 22949), (655, 22964), (659, 22973), (722, 23063), (768, 23132), (784, 23159), (793, 23177), (803, 23189), (836, 23279), (838, 23285), (841, 23294), (843, 23300), (849, 23336), (870, 23423), (887, 23474), (889, 23480), (903, 23513), (915, 23537),

Gene: GreenHearts_29 Start: 22236, Stop: 23627, Start Num: 219

Candidate Starts for GreenHearts_29:

(Start: 219 @22236 has 74 MA's), (Start: 266 @22323 has 1 MA's), (Start: 289 @22395 has 1 MA's), (290, 22398), (320, 22464), (329, 22482), (334, 22488), (359, 22515), (404, 22572), (424, 22623), (452, 22662), (470, 22698), (475, 22716), (489, 22752), (499, 22773), (505, 22791), (522, 22824), (537, 22863), (560, 22905), (576, 22932), (590, 22956), (611, 22992), (624, 22998), (651, 23031), (655, 23046), (659, 23055), (698, 23100), (712, 23133), (714, 23136), (772, 23220), (784, 23241), (791, 23253), (793, 23259), (803, 23271), (836, 23361), (837, 23364), (838, 23367), (843, 23382), (844, 23385), (848, 23409), (849, 23418), (870, 23505), (887, 23556), (903, 23595), (915, 23619),

Gene: GreenIvy_40 Start: 29681, Stop: 28254, Start Num: 250

Candidate Starts for GreenIvy_40:

(108, 29951), (118, 29927), (128, 29900), (145, 29852), (163, 29813), (Start: 250 @29681 has 24 MA's), (263, 29651), (265, 29645), (Start: 310 @29531 has 1 MA's), (311, 29528), (312, 29525), (457, 29291), (462, 29288), (557, 29033), (582, 28982), (584, 28976), (625, 28928), (651, 28895), (701, 28781), (705, 28772), (728, 28727), (732, 28721), (746, 28694), (789, 28622), (826, 28550), (836, 28514), (839, 28505), (844, 28490), (845, 28484), (848, 28466), (858, 28424), (875, 28361), (900, 28289),

Gene: Greenbelt_68 Start: 46451, Stop: 44553, Start Num: 50

Candidate Starts for Greenbelt_68:

(Start: 42 @46496 has 1 MA's), (Start: 50 @46451 has 1 MA's), (Start: 53 @46445 has 1 MA's), (60, 46433), (Start: 91 @46355 has 1 MA's), (116, 46289), (124, 46271), (134, 46250), (153, 46205), (160, 46187), (184, 46157), (218, 46112), (236, 46088), (286, 45962), (321, 45887), (323, 45884), (340, 45851), (360, 45818), (387, 45779), (444, 45668), (463, 45629), (489, 45554), (540, 45407), (556, 45374), (580, 45317), (659, 45212), (667, 45191), (755, 45050), (798, 44960), (814, 44927), (842, 44828), (850, 44783), (853, 44774), (890, 44639), (923, 44573), (924, 44570),

Gene: Greenhouse_29 Start: 22160, Stop: 23551, Start Num: 219

Candidate Starts for Greenhouse_29:

(152, 22058), (177, 22100), (Start: 196 @22127 has 1 MA's), (Start: 219 @22160 has 74 MA's), (Start: 266 @22247 has 1 MA's), (Start: 289 @22319 has 1 MA's), (290, 22322), (320, 22388), (329, 22406), (334, 22412), (359, 22439), (404, 22496), (424, 22547), (426, 22553), (430, 22556), (452, 22586), (470, 22622), (475, 22640), (489, 22676), (499, 22697), (505, 22715), (537, 22787), (560, 22829), (576, 22856), (590, 22880), (611, 22916), (624, 22922), (651, 22955), (655, 22970), (659, 22979), (712, 23057), (714, 23060), (772, 23144), (784, 23165), (791, 23177), (793, 23183), (803, 23195), (836, 23285), (843, 23306), (844, 23309), (848, 23333), (849, 23342), (870, 23429), (887, 23480), (903, 23519), (915, 23543),

Gene: GretellLyn_60 Start: 41292, Stop: 43208, Start Num: 57

Candidate Starts for GretellLyn_60:

(Start: 57 @41292 has 13 MA's), (Start: 58 @41295 has 58 MA's), (Start: 69 @41307 has 45 MA's), (81, 41355), (94, 41388), (120, 41457), (158, 41547), (176, 41574), (182, 41583), (236, 41655), (274, 41742), (286, 41775), (311, 41838), (367, 41928), (385, 41955), (463, 42084), (470, 42108), (484, 42150), (502, 42198), (508, 42219), (514, 42240), (534, 42297), (557, 42351), (574, 42393), (604, 42453), (659, 42549), (660, 42552), (764, 42729), (792, 42780), (826, 42870), (836, 42906), (838, 42912), (850, 42966), (861, 43005), (888, 43107), (893, 43122), (902, 43143),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 247

Candidate Starts for Greys_41:

(14, 31767), (97, 31413), (125, 31338), (Start: 247 @31116 has 139 MA's), (308, 30972), (Start: 310 @30966 has 1 MA's), (311, 30963), (389, 30849), (404, 30822), (430, 30762), (457, 30735), (462,

30732), (499, 30636), (511, 30594), (584, 30423), (600, 30402), (625, 30375), (655, 30327), (701, 30267), (789, 30108), (820, 30054), (845, 29970), (846, 29964), (848, 29952), (872, 29856), (890, 29802), (891, 29799), (900, 29775),

Gene: GrootJr_74 Start: 56101, Stop: 54035, Start Num: 38

Candidate Starts for GrootJr_74:

(9, 56305), (10, 56293), (12, 56275), (Start: 38 @56101 has 35 MA's), (Start: 82 @55963 has 2 MA's), (87, 55939), (182, 55735), (215, 55690), (274, 55582), (321, 55468), (323, 55465), (374, 55375), (376, 55372), (413, 55312), (484, 55174), (492, 55156), (500, 55132), (542, 55009), (580, 54904), (649, 54778), (667, 54724), (731, 54598), (735, 54589), (748, 54565), (779, 54493), (782, 54487), (796, 54457), (820, 54400), (836, 54340), (851, 54277), (870, 54196),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 247

Candidate Starts for Gubbabump_40:

(14, 31447), (97, 31093), (125, 31018), (Start: 247 @30796 has 139 MA's), (308, 30652), (Start: 310 @30646 has 1 MA's), (311, 30643), (389, 30529), (404, 30502), (430, 30442), (457, 30415), (462, 30412), (499, 30316), (511, 30274), (584, 30103), (600, 30082), (608, 30067), (655, 30007), (701, 29947), (753, 29851), (789, 29788), (820, 29734), (845, 29650), (846, 29644), (848, 29632), (872, 29536), (890, 29482), (891, 29479), (900, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 253

Candidate Starts for Guetzie_40:

(Start: 249 @30632 has 8 MA's), (Start: 253 @30629 has 24 MA's), (265, 30599), (308, 30491), (311, 30482), (342, 30428), (401, 30347), (430, 30281), (462, 30251), (476, 30206), (499, 30155), (580, 29951), (584, 29942), (608, 29903), (625, 29891), (642, 29879), (645, 29876), (657, 29840), (661, 29831), (685, 29816), (701, 29780), (706, 29768), (711, 29756), (753, 29681), (789, 29621), (836, 29513), (839, 29504), (844, 29489), (845, 29483), (846, 29477), (919, 29255),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 273

Candidate Starts for Guillaume_57:

(94, 52968), (142, 52839), (Start: 194 @52749 has 3 MA's), (Start: 273 @52620 has 28 MA's), (288, 52575), (329, 52485), (330, 52482), (333, 52476), (346, 52455), (395, 52392), (453, 52284), (465, 52266), (499, 52179), (504, 52164), (521, 52122), (557, 52041), (581, 51993), (603, 51951), (609, 51933), (623, 51930), (648, 51903), (665, 51852), (689, 51816), (711, 51765), (756, 51681), (765, 51660), (844, 51504), (845, 51498), (847, 51486), (878, 51360), (925, 51246),

Gene: Gumball_52 Start: 39923, Stop: 41866, Start Num: 58

Candidate Starts for Gumball_52:

(41, 39860), (Start: 58 @39923 has 58 MA's), (72, 39950), (Start: 95 @40022 has 1 MA's), (115, 40076), (138, 40136), (150, 40163), (180, 40214), (210, 40256), (236, 40292), (274, 40379), (308, 40472), (316, 40487), (328, 40508), (399, 40610), (411, 40643), (424, 40667), (466, 40727), (495, 40814), (518, 40889), (557, 40979), (580, 41030), (582, 41033), (628, 41123), (649, 41141), (659, 41174), (697, 41240), (705, 41258), (735, 41321), (779, 41405), (826, 41522), (836, 41570), (851, 41633), (870, 41717),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 69

Candidate Starts for Hager_41:

(19, 25248), (Start: 69 @25422 has 45 MA's), (85, 25485), (98, 25506), (116, 25560), (209, 25722), (218, 25737), (Start: 252 @25782 has 1 MA's), (314, 25956), (323, 25965), (374, 26055), (376, 26058), (400, 26097), (406, 26112), (410, 26130), (486, 26298), (518, 26391), (524, 26406), (534, 26433), (540, 26445), (556, 26478), (649, 26607), (705, 26724), (826, 26997), (837, 27036), (850, 27096), (871, 27186), (882, 27216), (895, 27258), (923, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 273

Candidate Starts for Hail2Pitt_56:

(94, 53444), (142, 53315), (191, 53228), (Start: 194 @53225 has 3 MA's), (Start: 273 @53096 has 28 MA's), (288, 53051), (329, 52961), (330, 52958), (333, 52952), (346, 52931), (395, 52868), (453, 52760), (465, 52742), (499, 52655), (504, 52640), (521, 52598), (557, 52517), (581, 52469), (603, 52427), (609, 52409), (623, 52406), (648, 52379), (665, 52328), (689, 52292), (711, 52241), (756, 52157), (765, 52136), (844, 51980), (845, 51974), (847, 51962), (878, 51836), (925, 51722),

Gene: HairyMan_37 Start: 30138, Stop: 28738, Start Num: 251

Candidate Starts for HairyMan_37:

(225, 30183), (248, 30141), (Start: 251 @30138 has 1 MA's), (254, 30132), (308, 29994), (Start: 310 @29988 has 1 MA's), (311, 29985), (345, 29928), (404, 29844), (462, 29754), (499, 29658), (509, 29625), (511, 29616), (546, 29523), (584, 29445), (600, 29424), (625, 29397), (701, 29286), (750, 29193), (755, 29187), (816, 29088), (834, 29025), (836, 29019), (844, 28995), (845, 28989), (846, 28983), (848, 28971), (872, 28875), (890, 28821),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 247

Candidate Starts for Hamlet_40:

(165, 31368), (Start: 166 @31365 has 1 MA's), (168, 31362), (Start: 247 @31266 has 139 MA's), (308, 31119), (Start: 310 @31113 has 1 MA's), (311, 31110), (389, 30996), (404, 30969), (430, 30909), (457, 30882), (462, 30879), (499, 30783), (511, 30741), (584, 30570), (600, 30549), (625, 30522), (701, 30414), (753, 30318), (820, 30201), (826, 30183), (845, 30117), (846, 30111), (848, 30099), (872, 30003), (890, 29949), (891, 29946), (900, 29922), (918, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for HanSolo_40:

(14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 247

Candidate Starts for HankSprout_41:

(125, 30905), (Start: 247 @30683 has 139 MA's), (308, 30539), (Start: 310 @30533 has 1 MA's), (311, 30530), (389, 30416), (404, 30389), (430, 30329), (457, 30302), (462, 30299), (499, 30203), (511, 30161), (556, 30050), (584, 29990), (600, 29969), (608, 29954), (655, 29894), (701, 29834), (753, 29738), (789, 29675), (820, 29621), (845, 29537), (846, 29531), (848, 29519), (872, 29423), (890, 29369), (891, 29366), (900, 29342),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 273

Candidate Starts for Harambe_57:

(94, 53235), (142, 53106), (191, 53019), (Start: 194 @53016 has 3 MA's), (Start: 273 @52887 has 28 MA's), (288, 52842), (329, 52752), (330, 52749), (333, 52743), (346, 52722), (395, 52659), (453, 52551), (465, 52533), (499, 52446), (504, 52431), (521, 52389), (557, 52308), (581, 52260), (603, 52218), (609, 52200), (623, 52197), (648, 52170), (665, 52119), (689, 52083), (711, 52032), (756, 51948), (765, 51927), (844, 51771), (845, 51765), (847, 51753), (878, 51627), (925, 51513),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 250

Candidate Starts for Hasitha_40:

(Start: 250 @29084 has 24 MA's), (263, 29054), (265, 29048), (Start: 310 @28934 has 1 MA's), (311, 28931), (457, 28694), (462, 28691), (557, 28436), (582, 28385), (584, 28379), (625, 28331), (651, 28298), (655, 28283), (689, 28211), (701, 28184), (705, 28175), (728, 28130), (732, 28124), (746,

28097), (789, 28025), (826, 27953), (836, 27917), (839, 27908), (844, 27893), (845, 27887), (848, 27869), (858, 27827), (875, 27764), (896, 27701), (900, 27692),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 69

Candidate Starts for Haunter_40:

(Start: 69 @25327 has 45 MA's), (85, 25390), (98, 25411), (116, 25465), (135, 25507), (218, 25642), (Start: 252 @25687 has 1 MA's), (314, 25861), (323, 25870), (374, 25960), (406, 26017), (486, 26203), (534, 26338), (540, 26350), (556, 26383), (574, 26428), (649, 26512), (705, 26629), (826, 26902), (836, 26938), (837, 26941), (850, 27001), (871, 27091), (882, 27121), (895, 27163), (923, 27214),

Gene: HavenFinLeoSun_42 Start: 31494, Stop: 30088, Start Num: 247

Candidate Starts for HavenFinLeoSun_42:

(Start: 247 @31494 has 139 MA's), (308, 31347), (Start: 310 @31341 has 1 MA's), (389, 31224), (404, 31197), (430, 31137), (457, 31110), (462, 31107), (464, 31104), (499, 31011), (511, 30969), (580, 30807), (584, 30798), (600, 30777), (605, 30771), (685, 30678), (701, 30642), (711, 30618), (755, 30543), (820, 30429), (838, 30369), (845, 30345), (846, 30339), (848, 30327), (882, 30204), (890, 30177), (900, 30150),

Gene: Hawkeye_56 Start: 39560, Stop: 41506, Start Num: 53

Candidate Starts for Hawkeye_56:

(Start: 53 @39560 has 1 MA's), (83, 39638), (110, 39707), (115, 39716), (127, 39746), (138, 39776), (150, 39803), (155, 39815), (210, 39893), (218, 39905), (274, 40016), (285, 40049), (316, 40124), (365, 40202), (388, 40232), (405, 40268), (428, 40322), (466, 40373), (504, 40487), (541, 40595), (578, 40673), (580, 40676), (593, 40700), (597, 40712), (628, 40769), (643, 40775), (649, 40787), (654, 40808), (659, 40820), (680, 40856), (697, 40886), (705, 40904), (735, 40967), (779, 41051), (796, 41087), (817, 41132), (826, 41168), (836, 41216), (838, 41222), (851, 41279), (920, 41483), (924, 41489), (925, 41492),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 132

Candidate Starts for HayZem_62:

(Start: 132 @52710 has 3 MA's), (137, 52698), (163, 52647), (167, 52641), (212, 52584), (288, 52443), (306, 52401), (Start: 310 @52389 has 1 MA's), (329, 52353), (330, 52350), (346, 52323), (371, 52287), (384, 52275), (395, 52260), (453, 52152), (499, 52047), (504, 52032), (557, 51909), (581, 51861), (594, 51837), (603, 51819), (648, 51771), (665, 51720), (689, 51684), (697, 51666), (756, 51549), (787, 51498), (819, 51456), (836, 51396), (847, 51354), (859, 51303), (864, 51279), (925, 51117), (931, 51096),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 273

Candidate Starts for Hello_57:

(94, 53197), (142, 53068), (191, 52981), (Start: 194 @52978 has 3 MA's), (Start: 273 @52849 has 28 MA's), (288, 52804), (329, 52714), (330, 52711), (333, 52705), (346, 52684), (395, 52621), (453, 52513), (465, 52495), (499, 52408), (504, 52393), (521, 52351), (557, 52270), (581, 52222), (603, 52180), (609, 52162), (623, 52159), (648, 52132), (665, 52081), (689, 52045), (711, 51994), (756, 51910), (765, 51889), (844, 51733), (845, 51727), (847, 51715), (878, 51589), (925, 51475),

Gene: Helpful_56 Start: 40102, Stop: 42045, Start Num: 58

Candidate Starts for Helpful_56:

(32, 40033), (Start: 58 @40102 has 58 MA's), (72, 40129), (Start: 95 @40201 has 1 MA's), (115, 40255), (138, 40315), (145, 40333), (150, 40342), (180, 40393), (210, 40435), (236, 40471), (274, 40558), (308, 40651), (316, 40666), (328, 40687), (399, 40789), (411, 40822), (424, 40846), (466, 40906), (495, 40993), (518, 41068), (557, 41158), (580, 41209), (582, 41212), (628, 41302), (649, 41320), (659, 41353), (691, 41407), (697, 41419), (705, 41437), (735, 41500), (779, 41584), (826, 41701), (836, 41749), (851, 41812), (870, 41896),

Gene: Henococcus_42 Start: 30892, Stop: 32286, Start Num: 224

Candidate Starts for Henococcus_42:

(Start: 224 @30892 has 13 MA's), (Start: 228 @30895 has 3 MA's), (265, 30970), (270, 30994), (284, 31024), (286, 31027), (Start: 289 @31039 has 1 MA's), (341, 31129), (363, 31153), (401, 31198), (404, 31204), (430, 31264), (449, 31285), (473, 31339), (510, 31438), (523, 31465), (528, 31474), (587, 31600), (624, 31648), (646, 31669), (651, 31681), (655, 31696), (686, 31726), (701, 31759), (705, 31768), (726, 31810), (770, 31876), (772, 31879), (784, 31900), (793, 31918), (805, 31936), (827, 31990), (836, 32020), (849, 32077), (850, 32080), (863, 32128), (876, 32182), (901, 32251), (909, 32269),

Gene: Herb_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for Herb_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 250

Candidate Starts for HerculesXL_40:

(Start: 250 @29477 has 24 MA's), (346, 29264), (389, 29201), (401, 29180), (457, 29087), (462, 29084), (469, 29063), (475, 29042), (511, 28946), (584, 28775), (601, 28751), (608, 28739), (625, 28727), (642, 28715), (645, 28712), (651, 28694), (655, 28679), (701, 28619), (706, 28607), (711, 28595), (753, 28523), (768, 28493), (789, 28460), (836, 28352), (839, 28343), (844, 28328), (845, 28322), (846, 28316), (848, 28304), (872, 28208), (875, 28199), (885, 28169), (900, 28127),

Gene: Hexbug_60 Start: 41082, Stop: 39607, Start Num: 202

Candidate Starts for Hexbug_60:

(Start: 202 @41082 has 10 MA's), (230, 41040), (257, 40992), (Start: 266 @40965 has 1 MA's), (290, 40890), (293, 40881), (299, 40875), (346, 40791), (358, 40773), (364, 40764), (368, 40758), (462, 40635), (479, 40581), (481, 40575), (484, 40569), (509, 40506), (512, 40491), (518, 40476), (608, 40278), (648, 40245), (660, 40206), (694, 40161), (724, 40098), (733, 40086), (745, 40065), (752, 40050), (768, 40017), (770, 40014), (794, 39969), (823, 39912), (839, 39858), (850, 39807), (882, 39696), (888, 39675),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 69

Candidate Starts for Hiddenleaf_40:

(19, 24995), (Start: 69 @25169 has 45 MA's), (85, 25232), (98, 25253), (116, 25307), (186, 25442), (218, 25484), (Start: 252 @25529 has 1 MA's), (314, 25703), (323, 25712), (374, 25802), (400, 25844), (406, 25859), (486, 26045), (534, 26180), (540, 26192), (556, 26225), (649, 26354), (705, 26471), (826, 26744), (837, 26783), (850, 26843), (871, 26933), (882, 26963), (895, 27005), (923, 27056),

Gene: HippoPololi_50 Start: 37814, Stop: 36324, Start Num: 198

Candidate Starts for HippoPololi_50:

(Start: 198 @37814 has 49 MA's), (230, 37772), (255, 37730), (257, 37724), (Start: 266 @37697 has 1 MA's), (283, 37643), (299, 37607), (Start: 310 @37580 has 1 MA's), (362, 37499), (364, 37496), (368, 37490), (389, 37469), (417, 37403), (462, 37367), (470, 37343), (479, 37313), (481, 37307), (484, 37301), (512, 37223), (572, 37082), (611, 37004), (651, 36965), (655, 36950), (685, 36914), (694, 36893), (695, 36890), (702, 36875), (715, 36848), (733, 36803), (768, 36734), (793, 36689), (794, 36686), (819, 36644), (823, 36629), (836, 36584), (837, 36581), (839, 36575), (850, 36524), (858,

36494), (884, 36404), (895, 36371), (913, 36335),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 117

Candidate Starts for Hollow_57:

(Start: 117 @53503 has 9 MA's), (Start: 121 @53491 has 2 MA's), (161, 53392), (Start: 178 @53371 has 1 MA's), (227, 53305), (277, 53206), (288, 53170), (297, 53146), (301, 53137), (306, 53128), (329, 53080), (342, 53056), (371, 53014), (387, 52999), (395, 52984), (420, 52927), (422, 52924), (461, 52864), (463, 52861), (485, 52795), (488, 52792), (504, 52756), (505, 52753), (511, 52735), (517, 52726), (521, 52714), (541, 52666), (557, 52633), (569, 52609), (581, 52585), (594, 52561), (648, 52495), (689, 52396), (754, 52264), (756, 52261), (826, 52144), (827, 52141), (844, 52084), (847, 52066), (874, 51949), (875, 51946), (880, 51934), (925, 51835), (931, 51814),

Gene: HomeFry_79 Start: 55194, Stop: 53140, Start Num: 38

Candidate Starts for HomeFry_79:

(Start: 38 @55194 has 35 MA's), (76, 55074), (84, 55041), (127, 54945), (128, 54942), (215, 54792), (274, 54684), (286, 54651), (292, 54630), (306, 54600), (323, 54567), (374, 54477), (413, 54414), (492, 54258), (508, 54207), (542, 54111), (553, 54078), (580, 54015), (597, 53979), (649, 53892), (683, 53823), (691, 53805), (735, 53700), (771, 53631), (779, 53598), (782, 53592), (796, 53562), (803, 53547), (820, 53505), (836, 53445), (851, 53382), (870, 53301), (881, 53277), (899, 53217),

Gene: Horseradish_55 Start: 38581, Stop: 37103, Start Num: 198

Candidate Starts for Horseradish_55:

(Start: 198 @38581 has 49 MA's), (255, 38494), (257, 38488), (272, 38437), (290, 38386), (299, 38371), (346, 38287), (362, 38263), (368, 38254), (462, 38131), (479, 38077), (481, 38071), (484, 38065), (499, 38035), (512, 37987), (559, 37873), (572, 37846), (584, 37822), (648, 37741), (653, 37717), (663, 37696), (694, 37657), (702, 37639), (705, 37633), (766, 37522), (770, 37516), (793, 37474), (805, 37456), (836, 37369), (839, 37360), (845, 37339), (850, 37309), (858, 37279), (866, 37246), (885, 37186), (895, 37156),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 221

Candidate Starts for Hotorobo_59:

(94, 52592), (112, 52541), (129, 52490), (153, 52436), (169, 52406), (Start: 194 @52373 has 3 MA's), (Start: 203 @52364 has 1 MA's), (Start: 221 @52337 has 28 MA's), (288, 52169), (306, 52127), (329, 52079), (334, 52067), (342, 52055), (346, 52049), (362, 52028), (384, 52001), (465, 51860), (499, 51773), (504, 51758), (507, 51746), (521, 51716), (542, 51665), (554, 51638), (581, 51587), (609, 51527), (623, 51524), (648, 51497), (662, 51455), (689, 51410), (756, 51275), (763, 51260), (773, 51239), (826, 51158), (827, 51155), (844, 51098), (845, 51092), (846, 51086), (847, 51080), (864, 51005), (874, 50966), (878, 50954), (880, 50951), (919, 50858), (925, 50843), (931, 50822),

Gene: Htur_33 Start: 23465, Stop: 24892, Start Num: 222

Candidate Starts for Htur_33:

(189, 23426), (209, 23447), (Start: 222 @23465 has 17 MA's), (403, 23822), (430, 23885), (464, 23930), (470, 23951), (587, 24218), (624, 24266), (646, 24287), (655, 24314), (685, 24341), (686, 24344), (698, 24371), (701, 24377), (717, 24413), (772, 24491), (784, 24512), (793, 24530), (803, 24542), (836, 24626), (849, 24683), (853, 24695), (863, 24734), (870, 24770), (872, 24776),

Gene: HubbaBubba_67 Start: 51701, Stop: 49620, Start Num: 38

Candidate Starts for HubbaBubba_67:

(10, 51893), (12, 51875), (Start: 38 @51701 has 35 MA's), (116, 51470), (184, 51332), (274, 51182), (286, 51149), (321, 51068), (323, 51065), (374, 50975), (376, 50972), (413, 50912), (492, 50756), (542, 50609), (580, 50501), (593, 50477), (649, 50375), (667, 50321), (683, 50306), (718, 50225), (735, 50186), (767, 50123), (779, 50084), (782, 50078), (796, 50048), (836, 49931), (851, 49868), (865, 49805), (870, 49787), (899, 49703),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 247

Candidate Starts for HungryHenry_40:

(14, 31459), (97, 31105), (125, 31030), (Start: 247 @30808 has 139 MA's), (308, 30664), (Start: 310 @30658 has 1 MA's), (311, 30655), (389, 30541), (404, 30514), (430, 30454), (457, 30427), (462, 30424), (499, 30328), (511, 30286), (584, 30115), (600, 30094), (608, 30079), (655, 30019), (701, 29959), (753, 29863), (789, 29800), (820, 29746), (845, 29662), (846, 29656), (848, 29644), (872, 29548), (890, 29494), (891, 29491), (900, 29467),

Gene: HunterDalle_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for HunterDalle_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470, 22210), (475, 22228), (489, 22264), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: Huntingdon_29 Start: 22127, Stop: 23518, Start Num: 219

Candidate Starts for Huntingdon_29:

(Start: 219 @22127 has 74 MA's), (Start: 266 @22214 has 1 MA's), (Start: 289 @22286 has 1 MA's), (290, 22289), (320, 22355), (329, 22373), (334, 22379), (359, 22406), (404, 22463), (449, 22544), (452, 22553), (470, 22589), (475, 22607), (489, 22643), (499, 22664), (505, 22682), (522, 22715), (537, 22754), (560, 22796), (576, 22823), (590, 22847), (611, 22883), (624, 22889), (651, 22922), (655, 22937), (659, 22946), (698, 22991), (712, 23024), (714, 23027), (770, 23108), (791, 23144), (793, 23150), (803, 23162), (836, 23252), (843, 23273), (844, 23276), (848, 23300), (849, 23309), (870, 23396), (887, 23447), (903, 23486), (915, 23510),

Gene: Huwbert_59 Start: 36808, Stop: 38358, Start Num: 198

Candidate Starts for Huwbert_59:

(Start: 196 @36805 has 1 MA's), (Start: 198 @36808 has 49 MA's), (238, 36874), (257, 36904), (267, 36934), (279, 36973), (288, 37000), (293, 37015), (322, 37069), (341, 37099), (402, 37183), (440, 37267), (447, 37276), (450, 37279), (499, 37399), (504, 37414), (530, 37501), (557, 37567), (569, 37591), (651, 37714), (653, 37726), (710, 37813), (760, 37912), (766, 37930), (831, 38068), (895, 38296), (899, 38305), (900, 38308),

Gene: IDyn_69 Start: 52448, Stop: 50367, Start Num: 38

Candidate Starts for IDyn_69:

(10, 52640), (12, 52622), (18, 52547), (Start: 38 @52448 has 35 MA's), (116, 52217), (184, 52079), (274, 51929), (286, 51896), (316, 51821), (321, 51815), (323, 51812), (374, 51722), (376, 51719), (413, 51659), (492, 51503), (542, 51356), (580, 51248), (593, 51224), (649, 51122), (667, 51068), (683, 51053), (718, 50972), (735, 50933), (767, 50870), (779, 50831), (782, 50825), (796, 50795), (836, 50678), (851, 50615), (865, 50552), (870, 50534), (899, 50450),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 247

Candidate Starts for Ilzat_40:

(14, 31470), (97, 31116), (125, 31041), (Start: 247 @30819 has 139 MA's), (308, 30675), (Start: 310 @30669 has 1 MA's), (311, 30666), (389, 30552), (404, 30525), (430, 30465), (457, 30438), (462, 30435), (499, 30339), (511, 30297), (584, 30126), (600, 30105), (608, 30090), (655, 30030), (701, 29970), (753, 29874), (789, 29811), (820, 29757), (845, 29673), (846, 29667), (848, 29655), (872, 29559), (890, 29505), (891, 29502), (900, 29478),

Gene: IndiRoo_33 Start: 21703, Stop: 23130, Start Num: 222

Candidate Starts for IndiRoo_33:

(208, 21682), (Start: 222 @21703 has 17 MA's), (401, 22057), (403, 22060), (409, 22081), (464, 22168), (476, 22210), (608, 22492), (624, 22504), (646, 22525), (655, 22552), (685, 22579), (686, 22582), (698, 22609), (701, 22615), (717, 22651), (784, 22750), (819, 22813), (827, 22834), (844, 22888), (849, 22921), (853, 22933), (863, 22972), (870, 23008), (872, 23014), (876, 23026), (887, 23059), (898, 23089),

Gene: Indlulamithi_65 Start: 45619, Stop: 47481, Start Num: 95

Candidate Starts for Indlulamithi_65:

(Start: 95 @45619 has 1 MA's), (101, 45634), (218, 45862), (260, 45922), (271, 45964), (283, 46000), (294, 46033), (303, 46051), (331, 46111), (342, 46129), (361, 46162), (390, 46201), (428, 46291), (440, 46312), (442, 46315), (463, 46336), (521, 46513), (551, 46582), (565, 46618), (574, 46639), (580, 46651), (609, 46717), (647, 46759), (649, 46765), (659, 46798), (665, 46813), (685, 46837), (686, 46840), (697, 46864), (701, 46873), (749, 46960), (803, 47065), (842, 47206), (865, 47314), (870, 47335), (875, 47350), (892, 47401), (922, 47458), (925, 47464), (928, 47476),

Gene: Intolerant_41 Start: 31037, Stop: 32431, Start Num: 224

Candidate Starts for Intolerant_41:

(Start: 224 @31037 has 13 MA's), (Start: 228 @31040 has 3 MA's), (265, 31115), (270, 31139), (284, 31169), (Start: 289 @31184 has 1 MA's), (341, 31274), (370, 31310), (430, 31409), (435, 31418), (474, 31487), (523, 31610), (587, 31745), (605, 31772), (624, 31793), (646, 31814), (686, 31871), (701, 31904), (705, 31913), (726, 31955), (770, 32021), (784, 32045), (793, 32063), (805, 32081), (827, 32135), (836, 32165), (849, 32222), (850, 32225), (863, 32273), (871, 32312), (876, 32327), (901, 32396), (909, 32414), (915, 32423),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Inventa_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Ioannes_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for Ioannes_41:

(125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (498, 30641), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (608, 30389), (625, 30377), (655, 30329), (701, 30269), (753, 30173), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (866, 29879), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: Ixel_41 Start: 29711, Stop: 28434, Start Num: 289

Candidate Starts for Ixel_41:

(Start: 250 @29819 has 24 MA's), (Start: 289 @29711 has 1 MA's), (308, 29675), (311, 29666), (389, 29543), (401, 29522), (457, 29429), (462, 29426), (475, 29384), (497, 29336), (499, 29330), (511, 29288), (561, 29165), (584, 29117), (600, 29096), (625, 29069), (642, 29057), (645, 29054), (651, 29036), (701, 28961), (706, 28949), (753, 28865), (774, 28820), (826, 28730), (836, 28694), (839, 28685), (844, 28670), (845, 28664), (846, 28658), (848, 28646), (872, 28550), (885, 28511),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 69

Candidate Starts for JDawG_39:

(19, 25412), (Start: 69 @25586 has 45 MA's), (85, 25649), (98, 25670), (116, 25724), (186, 25859), (218, 25901), (Start: 252 @25946 has 1 MA's), (314, 26120), (323, 26129), (374, 26219), (400, 26261),

(406, 26276), (486, 26462), (534, 26597), (540, 26609), (556, 26642), (597, 26735), (649, 26771), (692, 26861), (705, 26888), (836, 27197), (837, 27200), (850, 27260), (871, 27350), (882, 27380), (895, 27422), (923, 27473),

Gene: JackieB_42 Start: 30731, Stop: 32125, Start Num: 224

Candidate Starts for JackieB_42:

(Start: 224 @30731 has 13 MA's), (Start: 228 @30734 has 3 MA's), (265, 30809), (270, 30833), (284, 30863), (286, 30866), (Start: 289 @30878 has 1 MA's), (341, 30968), (363, 30992), (401, 31037), (404, 31043), (430, 31103), (449, 31124), (473, 31178), (510, 31277), (523, 31304), (528, 31313), (587, 31439), (624, 31487), (646, 31508), (651, 31520), (655, 31535), (686, 31565), (701, 31598), (705, 31607), (726, 31649), (772, 31718), (784, 31739), (793, 31757), (805, 31775), (827, 31829), (836, 31859), (849, 31916), (850, 31919), (863, 31967), (876, 32021), (901, 32090), (909, 32108),

Gene: JacoRen57_46 Start: 39673, Stop: 38201, Start Num: 204

Candidate Starts for JacoRen57_46:

(Start: 194 @39685 has 3 MA's), (Start: 204 @39673 has 2 MA's), (256, 39586), (257, 39583), (286, 39496), (290, 39481), (293, 39472), (362, 39358), (479, 39172), (484, 39160), (512, 39082), (604, 38881), (651, 38821), (653, 38809), (655, 38806), (793, 38566), (805, 38548), (827, 38494), (839, 38452), (845, 38431), (850, 38401), (854, 38386), (882, 38290), (885, 38278), (908, 38218),

Gene: Jalebi_59 Start: 41637, Stop: 43553, Start Num: 57

Candidate Starts for Jalebi_59:

(Start: 57 @41637 has 13 MA's), (Start: 58 @41640 has 58 MA's), (Start: 69 @41652 has 45 MA's), (81, 41700), (120, 41802), (158, 41892), (176, 41919), (182, 41928), (236, 42000), (286, 42120), (311, 42183), (367, 42273), (385, 42300), (463, 42429), (470, 42453), (484, 42495), (502, 42543), (508, 42564), (514, 42585), (534, 42642), (557, 42696), (574, 42738), (604, 42798), (659, 42894), (660, 42897), (764, 43074), (792, 43125), (825, 43212), (826, 43215), (836, 43251), (838, 43257), (850, 43311), (861, 43350), (888, 43452), (893, 43467), (902, 43488),

Gene: Jamemuya19_59 Start: 39419, Stop: 41335, Start Num: 57

Candidate Starts for Jamemuya19_59:

(Start: 57 @39419 has 13 MA's), (Start: 58 @39422 has 58 MA's), (Start: 69 @39434 has 45 MA's), (81, 39482), (94, 39515), (158, 39674), (176, 39701), (182, 39710), (236, 39782), (286, 39902), (311, 39965), (367, 40055), (385, 40082), (463, 40211), (470, 40235), (484, 40277), (489, 40289), (495, 40304), (502, 40325), (508, 40346), (514, 40367), (534, 40424), (542, 40442), (557, 40478), (574, 40520), (604, 40580), (659, 40676), (660, 40679), (764, 40856), (792, 40907), (826, 40997), (836, 41033), (838, 41039), (850, 41093), (861, 41132), (888, 41234), (893, 41249), (902, 41270),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 273

Candidate Starts for Jams_57:

(94, 52407), (142, 52278), (Start: 194 @52188 has 3 MA's), (Start: 273 @52059 has 28 MA's), (288, 52014), (329, 51924), (330, 51921), (333, 51915), (346, 51894), (395, 51831), (432, 51753), (453, 51723), (465, 51705), (499, 51618), (504, 51603), (521, 51561), (557, 51480), (581, 51432), (603, 51390), (609, 51372), (623, 51369), (648, 51342), (665, 51291), (689, 51255), (711, 51204), (756, 51120), (765, 51099), (844, 50943), (845, 50937), (847, 50925), (878, 50799), (925, 50685),

Gene: Jamzy_58 Start: 39427, Stop: 37952, Start Num: 202

Candidate Starts for Jamzy_58:

(Start: 202 @39427 has 10 MA's), (257, 39337), (Start: 266 @39310 has 1 MA's), (283, 39256), (290, 39235), (293, 39226), (299, 39220), (346, 39136), (353, 39127), (364, 39109), (368, 39103), (462, 38980), (479, 38926), (481, 38920), (484, 38914), (504, 38869), (512, 38836), (608, 38623), (648, 38590), (660, 38551), (694, 38506), (702, 38488), (705, 38482), (730, 38437), (733, 38431), (745, 38410), (768, 38362), (770, 38359), (793, 38317), (794, 38314), (805, 38299), (839, 38203), (850,

38152), (866, 38089), (888, 38020), (911, 37966),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Janus167_40:

(125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (625, 30062), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: JasonD_43 Start: 31699, Stop: 30293, Start Num: 247

Candidate Starts for JasonD_43:

(131, 31888), (179, 31798), (181, 31795), (Start: 247 @31699 has 139 MA's), (308, 31552), (Start: 310 @31546 has 1 MA's), (346, 31483), (389, 31429), (404, 31402), (430, 31342), (457, 31315), (462, 31312), (499, 31216), (511, 31174), (580, 31012), (584, 31003), (600, 30982), (605, 30976), (608, 30967), (657, 30904), (685, 30883), (701, 30847), (711, 30823), (755, 30748), (774, 30706), (845, 30550), (846, 30544), (848, 30532), (872, 30436), (882, 30409), (890, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for JasperRussell_40:

(97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 221

Candidate Starts for Jellybones_61:

(94, 53687), (112, 53636), (142, 53558), (153, 53531), (169, 53501), (Start: 194 @53468 has 3 MA's), (Start: 203 @53459 has 1 MA's), (Start: 221 @53432 has 28 MA's), (277, 53300), (288, 53264), (306, 53222), (312, 53204), (329, 53174), (334, 53162), (346, 53144), (384, 53096), (499, 52868), (504, 52853), (507, 52841), (521, 52811), (542, 52760), (581, 52682), (594, 52658), (603, 52640), (609, 52622), (623, 52619), (627, 52610), (648, 52592), (662, 52550), (689, 52505), (697, 52487), (756, 52370), (763, 52355), (773, 52334), (819, 52277), (826, 52253), (827, 52250), (844, 52193), (845, 52187), (847, 52175), (859, 52124), (864, 52100), (874, 52061), (878, 52049), (880, 52046), (919, 51953), (925, 51938), (931, 51917),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 250

Candidate Starts for Jemerald_42:

(Start: 250 @31717 has 24 MA's), (Start: 253 @31711 has 24 MA's), (308, 31573), (342, 31510), (389, 31450), (401, 31429), (454, 31342), (457, 31336), (462, 31333), (469, 31312), (484, 31267), (497, 31243), (499, 31237), (511, 31195), (569, 31057), (584, 31024), (601, 31000), (655, 30928), (666, 30901), (689, 30853), (701, 30826), (746, 30739), (753, 30730), (813, 30631), (836, 30559), (839, 30550), (844, 30535), (845, 30529), (872, 30415), (885, 30376), (887, 30370), (900, 30334), (902, 30331),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 250

Candidate Starts for Jenos_44:

(109, 32587), (Start: 114 @32578 has 3 MA's), (131, 32527), (141, 32506), (179, 32437), (Start: 250 @32344 has 24 MA's), (308, 32200), (Start: 310 @32194 has 1 MA's), (346, 32131), (389, 32077), (404, 32050), (430, 31990), (457, 31963), (462, 31960), (499, 31864), (511, 31822), (580, 31660), (584, 31651), (600, 31630), (625, 31603), (657, 31552), (701, 31495), (728, 31441), (753, 31399), (774, 31354), (838, 31222), (845, 31198), (846, 31192), (848, 31180), (872, 31084), (882, 31057),

(890, 31030), (919, 30973),

Gene: Jera_34 Start: 22504, Stop: 23931, Start Num: 222

Candidate Starts for Jera_34:

(192, 22462), (Start: 222 @22504 has 17 MA's), (377, 22822), (464, 22969), (470, 22990), (473, 22999), (587, 23257), (624, 23305), (646, 23326), (686, 23383), (701, 23416), (717, 23452), (772, 23530), (784, 23551), (826, 23632), (827, 23635), (849, 23722), (853, 23734), (863, 23773), (870, 23809), (872, 23815), (876, 23827), (898, 23890),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Jerbirus_42:

(14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: JeriBeth_40 Start: 30666, Stop: 29278, Start Num: 247

Candidate Starts for JeriBeth_40:

(125, 30888), (Start: 247 @30666 has 139 MA's), (308, 30522), (Start: 310 @30516 has 1 MA's), (311, 30513), (389, 30399), (404, 30372), (430, 30312), (457, 30285), (462, 30282), (499, 30186), (511, 30144), (584, 29973), (600, 29952), (608, 29937), (655, 29877), (701, 29817), (753, 29721), (789, 29658), (820, 29604), (845, 29520), (846, 29514), (848, 29502), (872, 29406), (890, 29352), (891, 29349), (900, 29325),

Gene: Jifall16_71 Start: 56412, Stop: 54346, Start Num: 38

Candidate Starts for Jifall16_71:

(2, 56910), (6, 56709), (9, 56616), (10, 56604), (12, 56586), (Start: 38 @56412 has 35 MA's), (Start: 82 @56274 has 2 MA's), (87, 56250), (182, 56046), (215, 56001), (274, 55893), (321, 55779), (323, 55776), (374, 55686), (376, 55683), (413, 55623), (484, 55485), (492, 55467), (500, 55443), (542, 55320), (580, 55215), (649, 55089), (667, 55035), (731, 54909), (735, 54900), (748, 54876), (779, 54804), (782, 54798), (796, 54768), (820, 54711), (836, 54651), (851, 54588), (870, 54507),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 69

Candidate Starts for JingleBells_40:

(19, 25116), (Start: 69 @25290 has 45 MA's), (85, 25353), (98, 25374), (116, 25428), (144, 25491), (186, 25563), (218, 25605), (Start: 252 @25650 has 1 MA's), (314, 25824), (323, 25833), (374, 25923), (400, 25965), (406, 25980), (486, 26166), (534, 26301), (540, 26313), (556, 26346), (649, 26475), (705, 26592), (836, 26901), (837, 26904), (850, 26964), (871, 27054), (882, 27084), (895, 27126), (923, 27177),

Gene: Jingles_40 Start: 30552, Stop: 29173, Start Num: 253

Candidate Starts for Jingles_40:

(149, 30717), (172, 30672), (Start: 196 @30642 has 1 MA's), (Start: 241 @30570 has 2 MA's), (Start: 249 @30558 has 8 MA's), (Start: 253 @30552 has 24 MA's), (265, 30522), (308, 30414), (Start: 310 @30408 has 1 MA's), (311, 30405), (320, 30390), (424, 30213), (430, 30204), (443, 30195), (462, 30174), (475, 30132), (499, 30078), (584, 29865), (600, 29844), (608, 29829), (625, 29817), (645, 29802), (657, 29766), (661, 29757), (685, 29742), (701, 29706), (753, 29607), (789, 29544), (807, 29517), (834, 29442), (836, 29436), (839, 29427), (844, 29412), (845, 29406), (846, 29400), (848, 29388), (882, 29265), (885, 29253),

Gene: Joann_29 Start: 22094, Stop: 23485, Start Num: 219

Candidate Starts for Joann_29:

(Start: 219 @22094 has 74 MA's), (Start: 266 @22181 has 1 MA's), (Start: 289 @22253 has 1 MA's), (290, 22256), (320, 22322), (329, 22340), (359, 22373), (404, 22430), (424, 22481), (426, 22487), (430, 22490), (452, 22520), (470, 22556), (475, 22574), (489, 22610), (499, 22631), (505, 22649), (522, 22682), (537, 22721), (560, 22763), (576, 22790), (590, 22814), (611, 22850), (624, 22856), (651, 22889), (655, 22904), (659, 22913), (698, 22958), (707, 22979), (712, 22991), (770, 23075), (784, 23099), (791, 23111), (793, 23117), (803, 23129), (836, 23219), (838, 23225), (843, 23240), (844, 23243), (848, 23267), (849, 23276), (870, 23363), (903, 23453), (915, 23477),

Gene: Johann_34 Start: 23371, Stop: 24798, Start Num: 222

Candidate Starts for Johann_34:

(Start: 222 @23371 has 17 MA's), (313, 23587), (377, 23689), (403, 23728), (430, 23791), (464, 23836), (470, 23857), (506, 23956), (587, 24124), (624, 24172), (646, 24193), (655, 24220), (685, 24247), (698, 24277), (701, 24283), (717, 24319), (772, 24397), (819, 24481), (826, 24499), (827, 24502), (849, 24589), (853, 24601), (863, 24640), (870, 24676), (872, 24682), (889, 24733), (898, 24757),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 221

Candidate Starts for John316_62:

(94, 53750), (112, 53699), (129, 53648), (153, 53594), (169, 53564), (Start: 194 @53531 has 3 MA's), (Start: 203 @53522 has 1 MA's), (Start: 221 @53495 has 28 MA's), (288, 53327), (306, 53285), (329, 53237), (334, 53225), (342, 53213), (346, 53207), (362, 53186), (384, 53159), (499, 52931), (504, 52916), (507, 52904), (521, 52874), (542, 52823), (554, 52796), (581, 52745), (603, 52703), (609, 52685), (623, 52682), (648, 52655), (662, 52613), (689, 52568), (756, 52433), (763, 52418), (773, 52397), (826, 52316), (827, 52313), (844, 52256), (845, 52250), (846, 52244), (847, 52238), (864, 52163), (874, 52124), (878, 52112), (880, 52109), (919, 52016), (925, 52001), (931, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 273

Candidate Starts for Jormungandr_57:

(94, 52950), (142, 52821), (Start: 194 @52731 has 3 MA's), (Start: 273 @52602 has 28 MA's), (288, 52557), (329, 52467), (330, 52464), (333, 52458), (346, 52437), (395, 52374), (453, 52266), (465, 52248), (499, 52161), (504, 52146), (521, 52104), (557, 52023), (581, 51975), (603, 51933), (609, 51915), (623, 51912), (648, 51885), (665, 51834), (689, 51798), (711, 51747), (756, 51663), (765, 51642), (844, 51486), (845, 51480), (847, 51468), (878, 51342), (925, 51228),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 253

Candidate Starts for Juanyo_39:

(Start: 249 @30556 has 8 MA's), (Start: 253 @30553 has 24 MA's), (Start: 289 @30451 has 1 MA's), (389, 30292), (404, 30265), (430, 30205), (457, 30178), (462, 30175), (491, 30094), (499, 30079), (557, 29923), (584, 29866), (600, 29845), (605, 29839), (608, 29830), (642, 29806), (651, 29785), (655, 29770), (668, 29746), (701, 29710), (728, 29656), (789, 29551), (795, 29539), (816, 29512), (826, 29479), (836, 29443), (839, 29434), (844, 29419), (845, 29413), (846, 29407), (848, 29395), (872, 29299), (875, 29290), (882, 29272), (885, 29260), (900, 29218), (914, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 250

Candidate Starts for Juicer_42:

(Start: 250 @31717 has 24 MA's), (Start: 253 @31711 has 24 MA's), (308, 31573), (342, 31510), (389, 31450), (401, 31429), (454, 31342), (457, 31336), (462, 31333), (469, 31312), (484, 31267), (497, 31243), (499, 31237), (511, 31195), (569, 31057), (584, 31024), (601, 31000), (655, 30928), (666, 30901), (689, 30853), (701, 30826), (746, 30739), (753, 30730), (813, 30631), (836, 30559), (839, 30550), (844, 30535), (845, 30529), (872, 30415), (885, 30376), (887, 30370), (900, 30334), (902, 30331),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 243

Candidate Starts for Jumbo_57:

(Start: 243 @53259 has 3 MA's), (280, 53163), (283, 53151), (288, 53136), (368, 53004), (387, 52980), (389, 52977), (404, 52944), (463, 52839), (469, 52818), (498, 52746), (519, 52689), (564, 52587), (581, 52557), (625, 52488), (686, 52395), (694, 52380), (710, 52344), (724, 52311), (741, 52281), (752, 52260), (773, 52218), (777, 52206), (813, 52131), (847, 52014), (854, 51981), (864, 51939), (882, 51873), (927, 51774), (928, 51771),

Gene: Jumboset_29 Start: 22100, Stop: 23500, Start Num: 219

Candidate Starts for Jumboset_29:

(Start: 219 @22100 has 74 MA's), (254, 22163), (Start: 289 @22268 has 1 MA's), (290, 22271), (329, 22355), (359, 22388), (401, 22439), (404, 22445), (449, 22526), (451, 22529), (452, 22535), (470, 22571), (475, 22589), (476, 22592), (499, 22646), (522, 22697), (560, 22778), (576, 22805), (597, 22835), (602, 22844), (624, 22871), (651, 22904), (655, 22919), (698, 22973), (707, 22994), (712, 23006), (722, 23018), (838, 23240), (841, 23249), (843, 23255), (849, 23291), (864, 23351), (870, 23378), (903, 23468),

Gene: KSunshine22_95 Start: 77618, Stop: 79462, Start Num: 148

Candidate Starts for KSunshine22_95:

(Start: 148 @77618 has 12 MA's), (280, 77891), (354, 77999), (396, 78065), (423, 78134), (427, 78143), (465, 78218), (567, 78527), (586, 78572), (610, 78632), (625, 78677), (638, 78734), (639, 78740), (651, 78773), (653, 78785), (659, 78797), (735, 78914), (739, 78920), (776, 78983), (796, 79022), (808, 79043), (832, 79127), (851, 79220), (857, 79244), (908, 79412), (910, 79415),

Gene: Kabluna_75 Start: 55961, Stop: 53874, Start Num: 38

Candidate Starts for Kabluna_75:

(Start: 38 @55961 has 35 MA's), (76, 55841), (Start: 91 @55796 has 1 MA's), (93, 55793), (215, 55538), (274, 55430), (292, 55376), (323, 55313), (374, 55223), (376, 55220), (393, 55196), (413, 55160), (484, 55022), (492, 55004), (495, 54995), (500, 54980), (542, 54857), (568, 54773), (580, 54746), (593, 54722), (649, 54623), (667, 54569), (701, 54515), (718, 54473), (735, 54434), (771, 54365), (779, 54332), (796, 54296), (817, 54251), (820, 54239), (836, 54179), (851, 54116), (899, 53951), (910, 53927),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 247

Candidate Starts for Kale_40:

(125, 31040), (Start: 247 @30818 has 139 MA's), (308, 30674), (Start: 310 @30668 has 1 MA's), (311, 30665), (389, 30551), (404, 30524), (430, 30464), (457, 30437), (462, 30434), (499, 30338), (511, 30296), (584, 30125), (600, 30104), (608, 30089), (655, 30029), (701, 29969), (753, 29873), (789, 29810), (820, 29756), (845, 29672), (846, 29666), (848, 29654), (866, 29579), (872, 29558), (890, 29504), (891, 29501), (900, 29477),

Gene: Kalizoi_29 Start: 22099, Stop: 23499, Start Num: 219

Candidate Starts for Kalizoi_29:

(Start: 219 @22099 has 74 MA's), (254, 22162), (Start: 289 @22267 has 1 MA's), (290, 22270), (329, 22354), (359, 22387), (401, 22438), (404, 22444), (449, 22525), (451, 22528), (452, 22534), (470, 22570), (475, 22588), (476, 22591), (499, 22645), (522, 22696), (560, 22777), (576, 22804), (597, 22834), (602, 22843), (624, 22870), (651, 22903), (655, 22918), (698, 22972), (707, 22993), (712, 23005), (722, 23017), (838, 23239), (841, 23248), (843, 23254), (849, 23290), (864, 23350), (870, 23377), (903, 23467), (915, 23491), (917, 23494),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 239

Candidate Starts for Kampe_58:

(Start: 239 @50421 has 5 MA's), (277, 50328), (280, 50319), (283, 50307), (288, 50292), (297, 50274), (330, 50217), (376, 50145), (378, 50142), (419, 50049), (441, 50016), (461, 49983), (463, 49980),

(469, 49959), (499, 49890), (511, 49854), (549, 49767), (581, 49704), (583, 49701), (598, 49671), (652, 49599), (653, 49590), (724, 49467), (728, 49461), (813, 49329), (827, 49287), (840, 49242), (847, 49212), (927, 48960),

Gene: KandZ_52 Start: 39857, Stop: 41800, Start Num: 58

Candidate Starts for KandZ_52:

(41, 39794), (Start: 58 @39857 has 58 MA's), (72, 39884), (Start: 95 @39956 has 1 MA's), (115, 40010), (138, 40070), (150, 40097), (180, 40148), (210, 40190), (236, 40226), (274, 40313), (308, 40406), (316, 40421), (328, 40442), (399, 40544), (411, 40577), (424, 40601), (466, 40661), (495, 40748), (518, 40823), (557, 40913), (580, 40964), (582, 40967), (628, 41057), (649, 41075), (659, 41108), (697, 41174), (705, 41192), (735, 41255), (779, 41339), (826, 41456), (836, 41504), (851, 41567), (870, 41651),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for KannH_40:

(14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 69

Candidate Starts for Karate_39:

(19, 25766), (Start: 69 @25940 has 45 MA's), (85, 26003), (98, 26024), (116, 26078), (209, 26240), (218, 26255), (Start: 252 @26300 has 1 MA's), (314, 26474), (323, 26483), (374, 26573), (376, 26576), (406, 26630), (486, 26816), (534, 26951), (540, 26963), (649, 27125), (705, 27242), (837, 27554), (850, 27614), (871, 27704), (882, 27734), (895, 27776), (923, 27827),

Gene: Kaseim_57 Start: 52044, Stop: 50632, Start Num: 273

Candidate Starts for Kaseim_57:

(94, 52392), (142, 52263), (Start: 194 @52173 has 3 MA's), (Start: 219 @52137 has 74 MA's), (Start: 273 @52044 has 28 MA's), (288, 51999), (329, 51909), (330, 51906), (333, 51900), (346, 51879), (395, 51816), (453, 51708), (465, 51690), (499, 51603), (504, 51588), (521, 51546), (557, 51465), (581, 51417), (603, 51375), (609, 51357), (623, 51354), (648, 51327), (665, 51276), (689, 51240), (711, 51189), (756, 51105), (765, 51084), (844, 50928), (845, 50922), (847, 50910), (878, 50784), (925, 50670),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 250

Candidate Starts for KatChan_42:

(Start: 250 @30536 has 24 MA's), (263, 30506), (309, 30389), (Start: 310 @30386 has 1 MA's), (311, 30383), (346, 30323), (360, 30302), (389, 30260), (404, 30233), (457, 30146), (462, 30143), (475, 30101), (497, 30050), (557, 29888), (584, 29831), (642, 29771), (648, 29762), (651, 29750), (685, 29711), (697, 29684), (698, 29681), (701, 29675), (746, 29588), (755, 29576), (836, 29408), (839, 29399), (844, 29384), (845, 29378), (846, 29372), (848, 29360), (882, 29237), (889, 29213), (900, 29183),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 69

Candidate Starts for Kate_41:

(Start: 69 @25943 has 45 MA's), (85, 26006), (98, 26027), (116, 26081), (218, 26258), (Start: 252 @26303 has 1 MA's), (314, 26477), (323, 26486), (374, 26576), (406, 26633), (486, 26819), (534, 26954), (540, 26966), (556, 26999), (649, 27128), (705, 27245), (749, 27320), (836, 27554), (837, 27557), (850, 27617), (871, 27707), (882, 27737), (895, 27779), (923, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 117

Candidate Starts for Katyusha_57:

(Start: 117 @53319 has 9 MA's), (Start: 121 @53307 has 2 MA's), (227, 53124), (Start: 273 @53034 has 28 MA's), (277, 53025), (288, 52989), (297, 52965), (301, 52956), (306, 52947), (329, 52899), (342, 52875), (395, 52803), (396, 52800), (404, 52782), (422, 52743), (485, 52614), (504, 52575), (505, 52572), (511, 52554), (517, 52545), (521, 52533), (541, 52485), (557, 52452), (581, 52404), (594, 52380), (648, 52314), (689, 52215), (736, 52116), (741, 52107), (754, 52083), (756, 52080), (819, 51987), (826, 51963), (827, 51960), (844, 51903), (847, 51885), (874, 51768), (875, 51765), (880, 51753), (925, 51654), (931, 51633),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 241

Candidate Starts for Kauala_39:

(123, 30784), (149, 30715), (156, 30700), (Start: 196 @30640 has 1 MA's), (Start: 241 @30568 has 2 MA's), (Start: 249 @30556 has 8 MA's), (Start: 253 @30550 has 24 MA's), (265, 30520), (308, 30412), (Start: 310 @30406 has 1 MA's), (311, 30403), (320, 30388), (430, 30202), (462, 30172), (475, 30130), (499, 30076), (509, 30043), (584, 29863), (600, 29842), (608, 29827), (625, 29815), (642, 29803), (645, 29800), (657, 29764), (685, 29740), (692, 29722), (701, 29704), (789, 29542), (820, 29488), (834, 29440), (836, 29434), (839, 29425), (844, 29410), (845, 29404), (846, 29398), (848, 29386), (882, 29263), (885, 29251),

Gene: Kavo_39 Start: 29315, Stop: 27930, Start Num: 244

Candidate Starts for Kavo_39:

(Start: 244 @29315 has 1 MA's), (308, 29171), (346, 29102), (389, 29039), (396, 29030), (401, 29018), (457, 28925), (462, 28922), (469, 28901), (475, 28880), (511, 28784), (584, 28613), (601, 28589), (608, 28577), (625, 28565), (642, 28553), (645, 28550), (651, 28532), (655, 28517), (701, 28457), (706, 28445), (711, 28433), (753, 28361), (768, 28331), (789, 28298), (836, 28190), (839, 28181), (844, 28166), (845, 28160), (846, 28154), (848, 28142), (872, 28046), (875, 28037), (885, 28007), (900, 27965),

Gene: KayGee_58 Start: 40792, Stop: 39314, Start Num: 198

Candidate Starts for KayGee_58:

(Start: 198 @40792 has 49 MA's), (Start: 241 @40729 has 2 MA's), (255, 40708), (257, 40702), (Start: 266 @40675 has 1 MA's), (283, 40621), (299, 40585), (306, 40570), (362, 40474), (368, 40465), (389, 40444), (417, 40378), (462, 40342), (479, 40288), (481, 40282), (484, 40276), (512, 40198), (518, 40183), (559, 40084), (597, 40009), (608, 39985), (625, 39973), (648, 39952), (652, 39937), (653, 39928), (663, 39907), (694, 39868), (698, 39859), (705, 39844), (733, 39793), (770, 39721), (793, 39679), (794, 39676), (805, 39661), (839, 39565), (850, 39514), (858, 39484), (866, 39451), (884, 39394), (889, 39379),

Gene: KellyGreen_42 Start: 30800, Stop: 29412, Start Num: 247

Candidate Starts for KellyGreen_42:

(125, 31022), (Start: 247 @30800 has 139 MA's), (308, 30656), (Start: 310 @30650 has 1 MA's), (311, 30647), (389, 30533), (404, 30506), (430, 30446), (457, 30419), (462, 30416), (499, 30320), (511, 30278), (584, 30107), (600, 30086), (608, 30071), (625, 30059), (655, 30011), (701, 29951), (753, 29855), (789, 29792), (820, 29738), (845, 29654), (846, 29648), (848, 29636), (866, 29561), (872, 29540), (890, 29486), (891, 29483), (900, 29459),

Gene: Kelzog_61 Start: 52344, Stop: 50812, Start Num: 221

Candidate Starts for Kelzog_61:

(94, 52599), (112, 52548), (129, 52497), (153, 52443), (169, 52413), (Start: 194 @52380 has 3 MA's), (Start: 203 @52371 has 1 MA's), (Start: 221 @52344 has 28 MA's), (288, 52176), (306, 52134), (329, 52086), (334, 52074), (342, 52062), (346, 52056), (362, 52035), (384, 52008), (465, 51867), (499, 51780), (504, 51765), (507, 51753), (521, 51723), (542, 51672), (554, 51645), (581, 51594), (609,

51534), (623, 51531), (648, 51504), (662, 51462), (689, 51417), (697, 51399), (756, 51282), (763, 51267), (773, 51246), (819, 51189), (826, 51165), (844, 51105), (845, 51099), (846, 51093), (847, 51087), (859, 51036), (864, 51012), (874, 50973), (878, 50961), (880, 50958), (919, 50865), (925, 50850), (931, 50829),

Gene: Kharcho_61 Start: 33998, Stop: 35899, Start Num: 75

Candidate Starts for Kharcho_61:

(46, 33905), (Start: 75 @33998 has 2 MA's), (102, 34085), (123, 34139), (142, 34190), (165, 34238), (182, 34262), (261, 34388), (264, 34397), (341, 34583), (365, 34625), (446, 34772), (458, 34793), (477, 34850), (487, 34874), (504, 34916), (513, 34952), (570, 35090), (644, 35192), (714, 35318), (728, 35342), (751, 35384), (860, 35669), (875, 35732), (885, 35762), (923, 35843), (927, 35858),

Gene: KidneyBean_72 Start: 56536, Stop: 54470, Start Num: 38

Candidate Starts for KidneyBean_72:

(2, 57034), (6, 56833), (9, 56740), (10, 56728), (12, 56710), (Start: 38 @56536 has 35 MA's), (Start: 82 @56398 has 2 MA's), (87, 56374), (182, 56170), (215, 56125), (274, 56017), (321, 55903), (323, 55900), (374, 55810), (376, 55807), (413, 55747), (484, 55609), (492, 55591), (500, 55567), (542, 55444), (580, 55339), (649, 55213), (667, 55159), (731, 55033), (735, 55024), (748, 55000), (779, 54928), (782, 54922), (796, 54892), (820, 54835), (836, 54775), (851, 54712), (870, 54631),

Gene: KimJongPhill_74 Start: 51796, Stop: 53328, Start Num: 183

Candidate Starts for KimJongPhill_74:

(44, 51421), (86, 51580), (96, 51595), (140, 51715), (Start: 183 @51796 has 2 MA's), (255, 51910), (257, 51916), (269, 51958), (271, 51964), (272, 51967), (274, 51973), (284, 52000), (291, 52021), (311, 52063), (334, 52105), (351, 52126), (358, 52141), (362, 52147), (364, 52150), (366, 52153), (457, 52294), (462, 52300), (479, 52354), (484, 52366), (497, 52390), (504, 52411), (512, 52444), (534, 52507), (538, 52516), (557, 52558), (611, 52675), (648, 52702), (651, 52714), (653, 52726), (655, 52729), (766, 52912), (784, 52942), (791, 52954), (793, 52960), (809, 52984), (837, 53068), (850, 53125), (855, 53143), (882, 53236), (886, 53251), (895, 53278),

Gene: Kimchi1738_73 Start: 52700, Stop: 50775, Start Num: 67

Candidate Starts for Kimchi1738_73:

(33, 52793), (Start: 67 @52700 has 8 MA's), (129, 52529), (153, 52475), (274, 52271), (344, 52115), (374, 52064), (376, 52061), (407, 52019), (489, 51857), (493, 51848), (649, 51491), (659, 51458), (749, 51272), (820, 51119), (838, 51053), (842, 51041), (846, 51023), (851, 50996), (865, 50933), (875, 50900), (900, 50828),

Gene: KingBob_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for KingBob_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: KingJulien_40 Start: 31269, Stop: 29878, Start Num: 247

Candidate Starts for KingJulien_40:

(92, 31557), (101, 31536), (Start: 247 @31269 has 139 MA's), (308, 31122), (Start: 310 @31116 has 1 MA's), (311, 31113), (346, 31053), (389, 30999), (404, 30972), (430, 30912), (457, 30885), (462, 30882), (499, 30786), (511, 30744), (584, 30573), (600, 30552), (701, 30417), (753, 30321), (820, 30204), (826, 30186), (845, 30120), (846, 30114), (848, 30102), (872, 30006), (890, 29952), (891,

29949), (900, 29925), (918, 29895),

Gene: Kittykat_25 Start: 20600, Stop: 21994, Start Num: 219

Candidate Starts for Kittykat_25:

(Start: 219 @20600 has 74 MA's), (254, 20657), (Start: 289 @20762 has 1 MA's), (290, 20765), (329, 20849), (359, 20882), (403, 20936), (404, 20939), (452, 21029), (470, 21065), (476, 21086), (489, 21119), (499, 21140), (560, 21272), (576, 21299), (602, 21338), (624, 21365), (651, 21398), (655, 21413), (659, 21422), (698, 21467), (714, 21503), (770, 21584), (784, 21608), (793, 21626), (803, 21638), (827, 21698), (834, 21722), (836, 21728), (837, 21731), (843, 21749), (844, 21752), (848, 21776), (849, 21785), (870, 21872), (887, 21923), (903, 21962),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 247

Candidate Starts for Klimt_41:

(125, 31056), (Start: 247 @30834 has 139 MA's), (308, 30690), (Start: 310 @30684 has 1 MA's), (311, 30681), (389, 30567), (404, 30540), (430, 30480), (457, 30453), (462, 30450), (499, 30354), (511, 30312), (580, 30150), (584, 30141), (600, 30120), (625, 30093), (651, 30060), (655, 30045), (692, 29970), (701, 29952), (753, 29856), (789, 29793), (820, 29739), (845, 29655), (846, 29649), (848, 29637), (866, 29562), (872, 29541), (890, 29487), (891, 29484), (900, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for Knox_41:

(14, 31769), (97, 31415), (125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 249

Candidate Starts for Koji_39:

(149, 30885), (172, 30840), (Start: 196 @30810 has 1 MA's), (232, 30756), (Start: 241 @30738 has 2 MA's), (Start: 249 @30726 has 8 MA's), (Start: 253 @30720 has 24 MA's), (265, 30690), (308, 30582), (Start: 310 @30576 has 1 MA's), (311, 30573), (320, 30558), (430, 30372), (443, 30363), (462, 30342), (475, 30300), (499, 30246), (584, 30033), (600, 30012), (608, 29997), (625, 29985), (645, 29970), (657, 29934), (685, 29910), (701, 29874), (703, 29868), (753, 29775), (789, 29712), (807, 29685), (834, 29610), (836, 29604), (839, 29595), (844, 29580), (845, 29574), (846, 29568), (848, 29556), (882, 29433), (885, 29421), (919, 29346),

Gene: Konstantine_65 Start: 46884, Stop: 48941, Start Num: 58

Candidate Starts for Konstantine_65:

(Start: 58 @46884 has 58 MA's), (79, 46944), (80, 46947), (Start: 114 @47040 has 3 MA's), (119, 47052), (127, 47073), (186, 47196), (188, 47199), (195, 47208), (218, 47241), (226, 47262), (Start: 247 @47310 has 139 MA's), (Start: 266 @47352 has 1 MA's), (286, 47415), (292, 47436), (294, 47442), (321, 47496), (428, 47682), (434, 47694), (455, 47712), (463, 47727), (466, 47733), (580, 48051), (582, 48054), (604, 48099), (643, 48150), (649, 48162), (691, 48252), (697, 48264), (711, 48297), (723, 48321), (725, 48330), (782, 48420), (798, 48453), (835, 48564), (836, 48567), (837, 48570), (838, 48573), (850, 48627), (865, 48693), (870, 48711), (933, 48888),

Gene: Korra_30 Start: 22105, Stop: 23505, Start Num: 219

Candidate Starts for Korra_30:

(Start: 219 @22105 has 74 MA's), (254, 22168), (Start: 289 @22273 has 1 MA's), (290, 22276), (329, 22360), (359, 22393), (401, 22444), (404, 22450), (449, 22531), (451, 22534), (452, 22540), (470, 22576), (475, 22594), (476, 22597), (489, 22630), (499, 22651), (522, 22702), (560, 22783), (576, 22810), (597, 22840), (602, 22849), (624, 22876), (651, 22909), (655, 22924), (698, 22978), (707,

22999), (712, 23011), (722, 23023), (793, 23137), (838, 23245), (841, 23254), (843, 23260), (849, 23296), (864, 23356), (870, 23383), (903, 23473),

Gene: Kors_42 Start: 26688, Stop: 28622, Start Num: 70

Candidate Starts for Kors_42:

(16, 26448), (Start: 36 @26592 has 1 MA's), (68, 26682), (Start: 70 @26688 has 6 MA's), (116, 26835), (124, 26853), (127, 26862), (218, 27012), (280, 27138), (314, 27228), (323, 27237), (366, 27312), (374, 27327), (400, 27369), (408, 27399), (470, 27531), (540, 27717), (550, 27735), (556, 27750), (580, 27807), (643, 27867), (678, 27939), (742, 28077), (775, 28143), (781, 28173), (817, 28251), (837, 28329), (850, 28389), (871, 28479), (879, 28497), (924, 28605),

Gene: Kouch_41 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Kouch_41:

(125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Kovu_95 Start: 56142, Stop: 57803, Start Num: 159

Candidate Starts for Kovu_95:

(106, 56019), (Start: 121 @56058 has 2 MA's), (Start: 159 @56142 has 9 MA's), (205, 56202), (257, 56289), (258, 56292), (322, 56463), (327, 56475), (400, 56595), (412, 56631), (424, 56655), (446, 56688), (452, 56700), (468, 56736), (470, 56742), (487, 56790), (504, 56832), (545, 56952), (578, 57015), (599, 57048), (622, 57078), (644, 57099), (655, 57132), (688, 57165), (712, 57222), (728, 57249), (751, 57291), (782, 57348), (793, 57372), (812, 57402), (819, 57420), (827, 57447), (835, 57474), (853, 57549), (860, 57576), (870, 57624), (874, 57636), (882, 57657), (884, 57666), (885, 57669), (894, 57696), (896, 57702), (908, 57729), (924, 57756), (927, 57768), (928, 57771), (930, 57777),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 69

Candidate Starts for Krampus_40:

(19, 25769), (Start: 69 @25943 has 45 MA's), (85, 26006), (98, 26027), (116, 26081), (209, 26243), (218, 26258), (Start: 252 @26303 has 1 MA's), (314, 26477), (323, 26486), (374, 26576), (400, 26618), (406, 26633), (486, 26819), (534, 26954), (540, 26966), (556, 26999), (649, 27128), (705, 27245), (749, 27320), (836, 27554), (837, 27557), (850, 27617), (871, 27707), (882, 27737), (895, 27779), (923, 27830),

Gene: Kurt_72 Start: 56722, Stop: 54656, Start Num: 38

Candidate Starts for Kurt_72:

(2, 57220), (6, 57019), (9, 56926), (10, 56914), (12, 56896), (Start: 38 @56722 has 35 MA's), (Start: 82 @56584 has 2 MA's), (87, 56560), (182, 56356), (215, 56311), (274, 56203), (321, 56089), (323, 56086), (374, 55996), (376, 55993), (413, 55933), (484, 55795), (492, 55777), (500, 55753), (542, 55630), (580, 55525), (649, 55399), (667, 55345), (731, 55219), (735, 55210), (748, 55186), (779, 55114), (782, 55108), (796, 55078), (820, 55021), (836, 54961), (851, 54898), (870, 54817),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Kurt1_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 121

Candidate Starts for Kvothe_56:

(Start: 117 @53218 has 9 MA's), (Start: 121 @53206 has 2 MA's), (227, 53023), (Start: 273 @52933 has 28 MA's), (277, 52924), (288, 52888), (297, 52864), (301, 52855), (306, 52846), (329, 52798), (342, 52774), (395, 52702), (404, 52681), (420, 52645), (422, 52642), (485, 52513), (488, 52510), (504, 52474), (505, 52471), (511, 52453), (517, 52444), (521, 52432), (541, 52384), (557, 52351), (581, 52303), (594, 52279), (648, 52213), (689, 52114), (736, 52015), (741, 52006), (754, 51982), (756, 51979), (819, 51886), (826, 51862), (827, 51859), (844, 51802), (847, 51784), (874, 51667), (875, 51664), (880, 51652), (925, 51553), (931, 51532),

Gene: Labella_35 Start: 23381, Stop: 24808, Start Num: 222

Candidate Starts for Labella_35:

(192, 23339), (Start: 222 @23381 has 17 MA's), (377, 23699), (430, 23801), (464, 23846), (470, 23867), (587, 24134), (624, 24182), (646, 24203), (686, 24260), (701, 24293), (717, 24329), (772, 24407), (784, 24428), (826, 24509), (827, 24512), (849, 24599), (853, 24611), (863, 24650), (870, 24686), (876, 24704), (898, 24767),

Gene: Labelle_76 Start: 49171, Stop: 51204, Start Num: 62

Candidate Starts for Labelle_76:

(Start: 62 @49171 has 3 MA's), (72, 49195), (90, 49258), (116, 49324), (135, 49375), (136, 49378), (195, 49486), (218, 49519), (Start: 247 @49558 has 139 MA's), (261, 49582), (280, 49645), (286, 49663), (287, 49666), (292, 49684), (294, 49690), (328, 49759), (343, 49786), (352, 49798), (379, 49831), (428, 49933), (489, 50056), (500, 50086), (534, 50191), (542, 50209), (578, 50299), (580, 50302), (612, 50404), (626, 50443), (643, 50470), (649, 50482), (665, 50530), (676, 50548), (691, 50575), (697, 50587), (701, 50596), (782, 50734), (803, 50779), (835, 50884), (865, 51013), (875, 51046), (882, 51064), (900, 51118), (921, 51157),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 273

Candidate Starts for Lahirium_57:

(94, 53472), (142, 53343), (Start: 194 @53253 has 3 MA's), (Start: 273 @53124 has 28 MA's), (288, 53079), (329, 52989), (330, 52986), (333, 52980), (346, 52959), (395, 52896), (453, 52788), (465, 52770), (499, 52683), (504, 52668), (521, 52626), (557, 52545), (581, 52497), (603, 52455), (609, 52437), (623, 52434), (648, 52407), (665, 52356), (689, 52320), (711, 52269), (756, 52185), (765, 52164), (844, 52008), (845, 52002), (847, 51990), (878, 51864), (925, 51750),

Gene: Lakshmi_29 Start: 22120, Stop: 23511, Start Num: 219

Candidate Starts for Lakshmi_29:

(Start: 219 @22120 has 74 MA's), (Start: 266 @22207 has 1 MA's), (Start: 289 @22279 has 1 MA's), (290, 22282), (317, 22345), (320, 22348), (329, 22366), (334, 22372), (359, 22399), (404, 22456), (424, 22507), (426, 22513), (430, 22516), (452, 22546), (470, 22582), (475, 22600), (489, 22636), (499, 22657), (505, 22675), (522, 22708), (537, 22747), (560, 22789), (576, 22816), (590, 22840), (611, 22876), (624, 22882), (651, 22915), (655, 22930), (659, 22939), (698, 22984), (712, 23017), (714, 23020), (772, 23104), (784, 23125), (791, 23137), (803, 23155), (836, 23245), (843, 23266), (844, 23269), (848, 23293), (849, 23302), (870, 23389), (887, 23440), (903, 23479), (915, 23503),

Gene: Lambo_58 Start: 40249, Stop: 42159, Start Num: 58

Candidate Starts for Lambo_58:

(Start: 57 @40246 has 13 MA's), (Start: 58 @40249 has 58 MA's), (Start: 69 @40261 has 45 MA's), (81, 40309), (94, 40342), (176, 40528), (186, 40543), (236, 40609), (274, 40696), (286, 40729), (324, 40810), (327, 40819), (332, 40828), (434, 41002), (439, 41008), (463, 41035), (495, 41128), (502, 41149), (504, 41155), (508, 41170), (514, 41191), (534, 41248), (542, 41266), (557, 41302), (574, 41344), (604, 41404), (659, 41500), (660, 41503), (792, 41731), (826, 41821), (836, 41857), (838,

41863), (850, 41917), (861, 41956), (888, 42058), (893, 42073), (902, 42094),

Gene: Laroye_95 Start: 55108, Stop: 56772, Start Num: 159

Candidate Starts for Laroye_95:

(Start: 159 @55108 has 9 MA's), (205, 55171), (240, 55231), (261, 55267), (Start: 273 @55312 has 28 MA's), (322, 55432), (375, 55525), (395, 55549), (400, 55561), (420, 55615), (452, 55666), (468, 55702), (476, 55729), (487, 55756), (504, 55798), (545, 55915), (585, 55993), (599, 56011), (644, 56062), (655, 56095), (688, 56128), (712, 56185), (728, 56212), (751, 56254), (782, 56311), (793, 56335), (812, 56365), (819, 56383), (827, 56410), (853, 56512), (860, 56539), (863, 56551), (882, 56620), (884, 56629), (885, 56632), (894, 56659), (896, 56665), (916, 56701), (924, 56716), (928, 56731), (932, 56752),

Gene: LastNadiia_40 Start: 28701, Stop: 26893, Start Num: 151

Candidate Starts for LastNadiia_40:

(Start: 151 @28701 has 19 MA's), (184, 28641), (283, 28440), (348, 28323), (354, 28311), (404, 28227), (465, 28089), (524, 27903), (552, 27810), (558, 27789), (563, 27777), (625, 27618), (630, 27603), (639, 27555), (686, 27486), (689, 27480), (693, 27465), (713, 27426), (735, 27417), (772, 27363), (773, 27360), (782, 27342), (791, 27324), (792, 27321), (839, 27168), (847, 27135), (853, 27108), (858, 27087), (864, 27060), (889, 26970), (910, 26919),

Gene: Lauer_52 Start: 41675, Stop: 40197, Start Num: 198

Candidate Starts for Lauer_52:

(Start: 198 @41675 has 49 MA's), (Start: 241 @41612 has 2 MA's), (257, 41585), (Start: 266 @41558 has 1 MA's), (283, 41504), (290, 41483), (306, 41453), (368, 41348), (389, 41327), (417, 41261), (462, 41225), (479, 41171), (481, 41165), (484, 41159), (512, 41081), (518, 41066), (559, 40967), (597, 40892), (608, 40868), (625, 40856), (648, 40835), (652, 40820), (653, 40811), (663, 40790), (694, 40751), (698, 40742), (733, 40676), (770, 40604), (793, 40562), (794, 40559), (805, 40544), (839, 40448), (850, 40397), (858, 40367), (866, 40334), (884, 40277), (889, 40262),

Gene: Laure_105 Start: 73569, Stop: 75428, Start Num: 148

Candidate Starts for Laure_105:

(Start: 148 @73569 has 12 MA's), (267, 73788), (272, 73809), (280, 73830), (281, 73836), (309, 73869), (346, 73938), (354, 73953), (370, 73980), (380, 73995), (391, 74007), (400, 74028), (421, 74085), (433, 74109), (493, 74256), (498, 74268), (558, 74460), (610, 74586), (625, 74631), (631, 74649), (635, 74670), (638, 74688), (639, 74694), (651, 74727), (653, 74739), (668, 74766), (677, 74787), (687, 74805), (735, 74871), (737, 74874), (773, 74931), (808, 75000), (830, 75078), (832, 75084), (833, 75087), (857, 75201), (885, 75309), (907, 75366),

Gene: LavAbarElk_60 Start: 40030, Stop: 41943, Start Num: 58

Candidate Starts for LavAbarElk_60:

(20, 39904), (23, 39913), (24, 39925), (35, 39958), (Start: 57 @40027 has 13 MA's), (Start: 58 @40030 has 58 MA's), (Start: 69 @40042 has 45 MA's), (81, 40090), (94, 40123), (120, 40192), (158, 40282), (176, 40309), (182, 40318), (236, 40390), (286, 40510), (311, 40573), (367, 40663), (385, 40690), (463, 40819), (470, 40843), (484, 40885), (495, 40912), (502, 40933), (508, 40954), (514, 40975), (534, 41032), (542, 41050), (557, 41086), (574, 41128), (604, 41188), (659, 41284), (660, 41287), (792, 41515), (826, 41605), (836, 41641), (838, 41647), (850, 41701), (861, 41740), (888, 41842), (893, 41857), (902, 41878),

Gene: LazerLemon_42 Start: 31529, Stop: 32923, Start Num: 224

Candidate Starts for LazerLemon_42:

(160, 31445), (Start: 224 @31529 has 13 MA's), (242, 31562), (265, 31607), (270, 31631), (284, 31661), (286, 31664), (Start: 289 @31676 has 1 MA's), (341, 31766), (363, 31790), (430, 31901), (473, 31976), (489, 32021), (508, 32072), (510, 32075), (520, 32096), (587, 32237), (605, 32264), (624,

32285), (646, 32306), (686, 32363), (698, 32390), (701, 32396), (705, 32405), (726, 32447), (770, 32513), (772, 32516), (784, 32537), (793, 32555), (805, 32573), (827, 32627), (849, 32714), (850, 32717), (863, 32765), (871, 32804), (876, 32819), (901, 32888), (909, 32906), (915, 32915),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 247

Candidate Starts for Leafus_40:

(Start: 166 @31516 has 1 MA's), (231, 31432), (Start: 247 @31402 has 139 MA's), (308, 31255), (Start: 310 @31249 has 1 MA's), (311, 31246), (389, 31132), (404, 31105), (430, 31045), (457, 31018), (462, 31015), (499, 30919), (511, 30877), (584, 30706), (600, 30685), (625, 30658), (701, 30550), (753, 30454), (820, 30337), (826, 30319), (845, 30253), (846, 30247), (848, 30235), (872, 30139), (890, 30085), (891, 30082), (900, 30058), (918, 30028),

Gene: Lederberg_45 Start: 37131, Stop: 38507, Start Num: 247

Candidate Starts for Lederberg_45:

(Start: 247 @37131 has 139 MA's), (274, 37200), (281, 37218), (320, 37311), (357, 37371), (360, 37377), (362, 37380), (457, 37500), (467, 37518), (511, 37635), (564, 37773), (584, 37812), (602, 37845), (605, 37851), (611, 37866), (651, 37905), (694, 37965), (705, 37989), (734, 38025), (783, 38094), (785, 38100), (828, 38181), (851, 38277), (854, 38289), (857, 38301), (870, 38358), (872, 38364), (876, 38376), (886, 38406), (906, 38457),

Gene: LeoJr_100 Start: 80857, Stop: 82713, Start Num: 148

Candidate Starts for LeoJr_100:

(Start: 148 @80857 has 12 MA's), (280, 81130), (354, 81235), (415, 81358), (423, 81370), (427, 81379), (470, 81475), (498, 81550), (516, 81610), (567, 81763), (586, 81808), (610, 81868), (625, 81913), (638, 81970), (639, 81976), (651, 82009), (653, 82021), (659, 82033), (735, 82150), (737, 82153), (773, 82210), (791, 82246), (796, 82258), (808, 82279), (832, 82363), (851, 82456), (857, 82480), (908, 82648), (910, 82651),

Gene: Leopard_64 Start: 46071, Stop: 48014, Start Num: 58

Candidate Starts for Leopard_64:

(Start: 58 @46071 has 58 MA's), (71, 46092), (78, 46122), (Start: 114 @46221 has 3 MA's), (138, 46284), (176, 46356), (182, 46365), (218, 46413), (350, 46686), (351, 46689), (436, 46851), (466, 46887), (489, 46959), (493, 46968), (504, 47001), (521, 47058), (527, 47070), (557, 47139), (561, 47148), (569, 47166), (580, 47190), (643, 47286), (649, 47298), (659, 47331), (686, 47373), (714, 47436), (767, 47541), (846, 47757), (850, 47781), (851, 47784), (862, 47826), (868, 47856), (875, 47880), (926, 47997),

Gene: LiSara_92 Start: 55240, Stop: 56904, Start Num: 159

Candidate Starts for LiSara_92:

(Start: 159 @55240 has 9 MA's), (205, 55303), (240, 55363), (261, 55399), (Start: 273 @55444 has 28 MA's), (322, 55564), (375, 55657), (395, 55681), (400, 55693), (420, 55747), (452, 55798), (468, 55834), (476, 55861), (487, 55888), (504, 55930), (545, 56047), (585, 56125), (599, 56143), (644, 56194), (655, 56227), (688, 56260), (712, 56317), (728, 56344), (751, 56386), (782, 56443), (793, 56467), (812, 56497), (819, 56515), (827, 56542), (853, 56644), (860, 56671), (863, 56683), (882, 56752), (884, 56761), (894, 56791), (896, 56797), (916, 56833), (924, 56848), (928, 56863), (932, 56884),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 250

Candidate Starts for Librie_40:

(Start: 250 @29071 has 24 MA's), (263, 29041), (265, 29035), (Start: 310 @28921 has 1 MA's), (311, 28918), (457, 28681), (462, 28678), (557, 28423), (582, 28372), (584, 28366), (625, 28318), (651, 28285), (655, 28270), (689, 28198), (701, 28171), (705, 28162), (728, 28117), (732, 28111), (746, 28084), (789, 28012), (826, 27940), (836, 27904), (839, 27895), (844, 27880), (845, 27874), (848,

27856), (858, 27814), (875, 27751), (896, 27688), (900, 27679),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 273

Candidate Starts for Lidong_57:

(94, 53207), (142, 53078), (Start: 194 @52988 has 3 MA's), (Start: 273 @52859 has 28 MA's), (288, 52814), (329, 52724), (330, 52721), (333, 52715), (346, 52694), (395, 52631), (432, 52553), (453, 52523), (465, 52505), (499, 52418), (504, 52403), (521, 52361), (557, 52280), (581, 52232), (603, 52190), (609, 52172), (623, 52169), (648, 52142), (665, 52091), (689, 52055), (711, 52004), (756, 51920), (765, 51899), (844, 51743), (845, 51737), (847, 51725), (878, 51599), (925, 51485),

Gene: LilStuart_25 Start: 20568, Stop: 21962, Start Num: 219

Candidate Starts for LilStuart_25:

(Start: 219 @20568 has 74 MA's), (254, 20625), (Start: 289 @20730 has 1 MA's), (290, 20733), (329, 20817), (359, 20850), (401, 20901), (404, 20907), (449, 20988), (451, 20991), (452, 20997), (470, 21033), (475, 21051), (476, 21054), (489, 21087), (499, 21108), (560, 21240), (576, 21267), (602, 21306), (611, 21327), (624, 21333), (651, 21366), (655, 21381), (659, 21390), (698, 21435), (714, 21471), (741, 21513), (784, 21576), (793, 21594), (836, 21696), (837, 21699), (843, 21717), (844, 21720), (848, 21744), (849, 21753), (870, 21840), (903, 21930), (915, 21954), (917, 21957),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 250

Candidate Starts for LilTerminator_40:

(Start: 250 @29093 has 24 MA's), (263, 29063), (265, 29057), (Start: 310 @28943 has 1 MA's), (311, 28940), (312, 28937), (401, 28796), (457, 28703), (462, 28700), (557, 28445), (582, 28394), (584, 28388), (625, 28340), (642, 28328), (651, 28307), (701, 28193), (705, 28184), (728, 28139), (732, 28133), (746, 28106), (789, 28034), (826, 27962), (836, 27926), (839, 27917), (844, 27902), (845, 27896), (848, 27878), (858, 27836), (875, 27773), (900, 27701),

Gene: Lila22_61 Start: 41200, Stop: 43113, Start Num: 58

Candidate Starts for Lila22_61:

(Start: 57 @41197 has 13 MA's), (Start: 58 @41200 has 58 MA's), (Start: 69 @41212 has 45 MA's), (81, 41260), (94, 41293), (176, 41479), (186, 41494), (236, 41560), (274, 41647), (284, 41677), (286, 41680), (311, 41743), (324, 41761), (327, 41770), (367, 41833), (385, 41860), (463, 41989), (470, 42013), (484, 42055), (502, 42103), (508, 42124), (514, 42145), (534, 42202), (557, 42256), (574, 42298), (604, 42358), (659, 42454), (660, 42457), (764, 42634), (792, 42685), (826, 42775), (836, 42811), (838, 42817), (850, 42871), (861, 42910), (888, 43012), (893, 43027), (902, 43048),

Gene: LilyPad_52 Start: 37853, Stop: 39895, Start Num: 69

Candidate Starts for LilyPad_52:

(Start: 69 @37853 has 45 MA's), (120, 38006), (143, 38066), (218, 38180), (236, 38204), (Start: 273 @38288 has 28 MA's), (286, 38324), (385, 38492), (390, 38498), (399, 38519), (444, 38606), (495, 38717), (508, 38759), (514, 38780), (542, 38855), (580, 38939), (591, 38960), (597, 38975), (612, 39020), (613, 39023), (615, 39035), (617, 39041), (618, 39044), (632, 39077), (640, 39131), (650, 39152), (660, 39182), (665, 39194), (683, 39227), (711, 39296), (731, 39353), (757, 39401), (779, 39446), (792, 39473), (842, 39620), (855, 39680), (865, 39728), (870, 39749), (889, 39806), (895, 39824), (902, 39839), (924, 39881),

Gene: Linayshia_33 Start: 23433, Stop: 24860, Start Num: 222

Candidate Starts for Linayshia_33:

(189, 23391), (Start: 222 @23433 has 17 MA's), (403, 23790), (430, 23853), (464, 23898), (470, 23919), (587, 24186), (624, 24234), (646, 24255), (655, 24282), (685, 24309), (686, 24312), (698, 24339), (701, 24345), (717, 24381), (772, 24459), (784, 24480), (793, 24498), (803, 24510), (836, 24594), (849, 24651), (853, 24663), (863, 24702), (870, 24738), (872, 24744),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 273

Candidate Starts for Linetti_59:

(94, 53400), (112, 53349), (129, 53298), (153, 53244), (169, 53214), (Start: 194 @53181 has 3 MA's), (Start: 203 @53172 has 1 MA's), (Start: 221 @53145 has 28 MA's), (Start: 273 @53022 has 28 MA's), (288, 52977), (306, 52935), (329, 52887), (330, 52884), (333, 52878), (334, 52875), (342, 52863), (346, 52857), (371, 52821), (384, 52809), (387, 52806), (453, 52686), (465, 52668), (485, 52605), (499, 52581), (504, 52566), (521, 52524), (554, 52446), (581, 52395), (609, 52335), (623, 52332), (627, 52323), (648, 52305), (662, 52263), (689, 52218), (756, 52083), (763, 52068), (773, 52047), (826, 51966), (827, 51963), (844, 51906), (845, 51900), (847, 51888), (859, 51837), (863, 51822), (864, 51813), (874, 51774), (878, 51762), (919, 51666), (925, 51651),

Gene: Litotes_29 Start: 22115, Stop: 23509, Start Num: 219

Candidate Starts for Litotes_29:

(Start: 219 @22115 has 74 MA's), (254, 22172), (Start: 289 @22277 has 1 MA's), (329, 22364), (403, 22451), (404, 22454), (452, 22544), (470, 22580), (473, 22589), (475, 22598), (499, 22655), (505, 22673), (522, 22706), (529, 22718), (560, 22787), (576, 22814), (590, 22838), (624, 22880), (651, 22913), (655, 22928), (659, 22937), (722, 23027), (768, 23096), (784, 23123), (793, 23141), (803, 23153), (836, 23243), (838, 23249), (841, 23258), (843, 23264), (849, 23300), (870, 23387), (887, 23438), (889, 23444), (903, 23477), (915, 23501),

Gene: LittleFella_57 Start: 39855, Stop: 41873, Start Num: 66

Candidate Starts for LittleFella_57:

(Start: 66 @39855 has 1 MA's), (133, 40053), (136, 40062), (138, 40065), (Start: 151 @40095 has 19 MA's), (176, 40137), (182, 40146), (242, 40224), (Start: 250 @40236 has 24 MA's), (274, 40305), (286, 40338), (287, 40341), (390, 40521), (424, 40602), (444, 40629), (493, 40734), (508, 40776), (514, 40797), (580, 40956), (593, 40980), (612, 41037), (613, 41040), (617, 41058), (633, 41097), (647, 41157), (650, 41169), (656, 41187), (660, 41199), (669, 41220), (716, 41307), (721, 41310), (723, 41313), (757, 41379), (779, 41424), (792, 41451), (826, 41544), (846, 41619), (848, 41631), (850, 41643), (853, 41652), (855, 41661), (865, 41709), (870, 41727), (889, 41784), (902, 41817), (925, 41856),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 56

Candidate Starts for Lizz_70:

(39, 50218), (Start: 56 @50158 has 8 MA's), (Start: 69 @50143 has 45 MA's), (85, 50080), (Start: 91 @50071 has 1 MA's), (98, 50059), (134, 49966), (160, 49903), (176, 49885), (218, 49828), (236, 49804), (295, 49645), (314, 49606), (323, 49597), (387, 49489), (442, 49381), (484, 49276), (517, 49177), (540, 49117), (578, 49030), (580, 49027), (659, 48922), (663, 48913), (667, 48901), (720, 48802), (792, 48685), (798, 48673), (811, 48646), (837, 48556), (842, 48541), (853, 48487), (865, 48430), (910, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 221

Candidate Starts for Lizzo_59:

(94, 52581), (112, 52530), (129, 52479), (153, 52425), (169, 52395), (Start: 194 @52362 has 3 MA's), (Start: 203 @52353 has 1 MA's), (Start: 221 @52326 has 28 MA's), (288, 52158), (306, 52116), (329, 52068), (334, 52056), (342, 52044), (346, 52038), (362, 52017), (384, 51990), (465, 51849), (499, 51762), (504, 51747), (507, 51735), (521, 51705), (542, 51654), (554, 51627), (581, 51576), (594, 51552), (603, 51534), (609, 51516), (623, 51513), (648, 51486), (662, 51444), (689, 51399), (756, 51264), (763, 51249), (773, 51228), (819, 51171), (826, 51147), (844, 51087), (845, 51081), (846, 51075), (847, 51069), (859, 51018), (864, 50994), (874, 50955), (878, 50943), (880, 50940), (919, 50847), (925, 50832), (931, 50811),

Gene: Lollipop1437_76 Start: 57598, Stop: 55541, Start Num: 38

Candidate Starts for Lollipop1437_76:

(7, 57886), (11, 57778), (Start: 38 @57598 has 35 MA's), (195, 57223), (Start: 266 @57115 has 1 MA's), (275, 57082), (292, 57031), (321, 56971), (323, 56968), (364, 56896), (374, 56878), (413, 56815), (416, 56809), (431, 56782), (471, 56716), (484, 56677), (492, 56659), (500, 56635), (542, 56512), (553, 56479), (580, 56416), (649, 56293), (683, 56224), (691, 56206), (735, 56101), (740, 56092), (771, 56032), (782, 55993), (796, 55963), (820, 55906), (836, 55846), (845, 55816), (851, 55783), (899, 55618),

Gene: LongHai_51 Start: 39283, Stop: 37772, Start Num: 171

Candidate Starts for LongHai_51:

(Start: 171 @39283 has 2 MA's), (201, 39247), (256, 39157), (257, 39154), (271, 39106), (299, 39037), (362, 38929), (464, 38794), (479, 38743), (481, 38737), (484, 38731), (497, 38707), (512, 38653), (572, 38512), (574, 38509), (604, 38452), (607, 38443), (653, 38380), (655, 38377), (768, 38182), (793, 38137), (836, 38032), (850, 37972), (854, 37957), (902, 37804), (913, 37783),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 70

Candidate Starts for LordBart_42:

(16, 26357), (Start: 36 @26501 has 1 MA's), (68, 26591), (Start: 70 @26597 has 6 MA's), (116, 26744), (124, 26762), (218, 26921), (314, 27137), (323, 27146), (374, 27236), (400, 27278), (408, 27308), (470, 27440), (540, 27626), (550, 27644), (556, 27659), (580, 27716), (643, 27776), (678, 27848), (742, 27986), (775, 28052), (781, 28082), (782, 28085), (817, 28160), (837, 28238), (850, 28298), (871, 28388), (879, 28406),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 247

Candidate Starts for Lovelyunicorn_41:

(14, 31770), (97, 31416), (125, 31341), (Start: 247 @31119 has 139 MA's), (308, 30975), (Start: 310 @30969 has 1 MA's), (311, 30966), (389, 30852), (404, 30825), (430, 30765), (457, 30738), (462, 30735), (499, 30639), (511, 30597), (584, 30426), (600, 30405), (625, 30378), (655, 30330), (701, 30270), (789, 30111), (820, 30057), (845, 29973), (846, 29967), (848, 29955), (872, 29859), (890, 29805), (891, 29802), (900, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 249

Candidate Starts for Lucky3_39:

(Start: 249 @30647 has 8 MA's), (Start: 253 @30644 has 24 MA's), (265, 30614), (308, 30506), (311, 30497), (342, 30443), (401, 30362), (430, 30296), (462, 30266), (476, 30221), (499, 30170), (580, 29966), (584, 29957), (608, 29918), (625, 29906), (642, 29894), (645, 29891), (657, 29855), (661, 29846), (685, 29831), (701, 29795), (706, 29783), (711, 29771), (753, 29696), (789, 29636), (836, 29528), (839, 29519), (844, 29504), (845, 29498), (846, 29492), (919, 29270),

Gene: LuckyBarnes_64 Start: 49560, Stop: 48223, Start Num: 253

Candidate Starts for LuckyBarnes_64:

(165, 49698), (210, 49635), (Start: 253 @49560 has 24 MA's), (279, 49485), (281, 49479), (298, 49449), (322, 49401), (331, 49383), (360, 49344), (401, 49290), (466, 49221), (490, 49149), (515, 49083), (542, 49002), (584, 48915), (595, 48897), (597, 48891), (602, 48882), (655, 48807), (705, 48735), (762, 48648), (768, 48633), (783, 48609), (784, 48606), (785, 48603), (862, 48384), (870, 48345), (871, 48342), (885, 48300), (897, 48264),

Gene: LuckyLeo_57 Start: 40044, Stop: 41966, Start Num: 57

Candidate Starts for LuckyLeo_57:

(21, 39927), (25, 39948), (31, 39969), (45, 39999), (Start: 50 @40032 has 1 MA's), (Start: 57 @40044 has 13 MA's), (Start: 58 @40047 has 58 MA's), (Start: 69 @40062 has 45 MA's), (73, 40077), (81, 40110), (94, 40143), (96, 40146), (Start: 114 @40194 has 3 MA's), (120, 40212), (158, 40302), (168, 40320), (176, 40329), (182, 40338), (236, 40410), (286, 40530), (287, 40533), (311, 40593), (324, 40611), (367, 40683), (385, 40710), (466, 40845), (470, 40863), (484, 40905), (493, 40926), (495,

40932), (508, 40974), (514, 40995), (521, 41016), (534, 41052), (574, 41151), (578, 41160), (604, 41211), (659, 41307), (660, 41310), (729, 41421), (764, 41487), (779, 41511), (792, 41538), (847, 41706), (850, 41724), (856, 41748), (861, 41763), (862, 41769), (870, 41811), (875, 41826), (888, 41865), (893, 41880), (902, 41901), (929, 41958),

Gene: Lucy_25 Start: 20556, Stop: 21950, Start Num: 219

Candidate Starts for Lucy_25:

(Start: 219 @20556 has 74 MA's), (254, 20613), (Start: 289 @20718 has 1 MA's), (290, 20721), (329, 20805), (359, 20838), (404, 20895), (449, 20976), (451, 20979), (452, 20985), (470, 21021), (475, 21039), (476, 21042), (489, 21075), (499, 21096), (522, 21147), (560, 21228), (576, 21255), (602, 21294), (611, 21315), (624, 21321), (651, 21354), (655, 21369), (686, 21396), (698, 21423), (714, 21459), (784, 21564), (793, 21582), (836, 21684), (837, 21687), (843, 21705), (844, 21708), (848, 21732), (849, 21741), (870, 21828), (887, 21879), (888, 21882), (903, 21918), (915, 21942),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for Ludgate_41:

(125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (499, 30637), (511, 30595), (584, 30424), (600, 30403), (608, 30388), (625, 30376), (655, 30328), (701, 30268), (753, 30172), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (866, 29878), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 219

Candidate Starts for Luker_58:

(94, 53425), (142, 53296), (Start: 194 @53206 has 3 MA's), (Start: 219 @53170 has 74 MA's), (Start: 273 @53077 has 28 MA's), (288, 53032), (329, 52942), (330, 52939), (333, 52933), (346, 52912), (395, 52849), (453, 52741), (465, 52723), (499, 52636), (504, 52621), (521, 52579), (557, 52498), (581, 52450), (603, 52408), (609, 52390), (623, 52387), (648, 52360), (665, 52309), (689, 52273), (711, 52222), (756, 52138), (765, 52117), (844, 51961), (845, 51955), (847, 51943), (878, 51817), (925, 51703),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 250

Candidate Starts for Luna18_42:

(Start: 250 @30536 has 24 MA's), (263, 30506), (309, 30389), (Start: 310 @30386 has 1 MA's), (311, 30383), (346, 30323), (360, 30302), (389, 30260), (404, 30233), (457, 30146), (462, 30143), (475, 30101), (497, 30050), (557, 29888), (584, 29831), (642, 29771), (648, 29762), (651, 29750), (685, 29711), (697, 29684), (698, 29681), (701, 29675), (746, 29588), (755, 29576), (836, 29408), (839, 29399), (844, 29384), (845, 29378), (846, 29372), (848, 29360), (882, 29237), (889, 29213), (900, 29183),

Gene: MAnor_58 Start: 41147, Stop: 39669, Start Num: 198

Candidate Starts for MAnor_58:

(170, 41174), (Start: 198 @41147 has 49 MA's), (Start: 241 @41084 has 2 MA's), (257, 41057), (Start: 266 @41030 has 1 MA's), (283, 40976), (290, 40955), (291, 40952), (299, 40940), (306, 40925), (Start: 310 @40913 has 1 MA's), (368, 40820), (462, 40697), (479, 40643), (481, 40637), (484, 40631), (512, 40553), (518, 40538), (559, 40439), (605, 40349), (608, 40340), (625, 40328), (648, 40307), (652, 40292), (653, 40283), (663, 40262), (694, 40223), (698, 40214), (705, 40199), (728, 40157), (768, 40079), (770, 40076), (793, 40034), (805, 40016), (839, 39920), (850, 39869), (858, 39839), (866, 39806), (884, 39749), (889, 39734),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 253

Candidate Starts for MCubed_40:

(Start: 249 @30971 has 8 MA's), (Start: 253 @30968 has 24 MA's), (265, 30938), (Start: 266 @30932 has 1 MA's), (276, 30899), (389, 30707), (404, 30680), (430, 30620), (457, 30593), (462, 30590), (475, 30548), (499, 30494), (511, 30452), (557, 30338), (584, 30281), (600, 30260), (608, 30245), (625, 30233), (642, 30221), (645, 30218), (651, 30200), (685, 30119), (701, 30083), (728, 30029), (750, 29987), (768, 29957), (774, 29942), (784, 29933), (786, 29927), (816, 29885), (836, 29816), (844, 29792), (845, 29786), (846, 29780), (848, 29768), (872, 29672), (875, 29663), (882, 29645), (885, 29633), (887, 29627), (902, 29588),

Gene: MScarn_57 Start: 38763, Stop: 37285, Start Num: 198

Candidate Starts for MScarn_57:

(Start: 198 @38763 has 49 MA's), (255, 38676), (257, 38670), (272, 38619), (290, 38568), (299, 38553), (346, 38469), (362, 38445), (368, 38436), (462, 38313), (479, 38259), (481, 38253), (484, 38247), (512, 38169), (559, 38055), (572, 38028), (584, 38004), (648, 37923), (653, 37899), (663, 37878), (694, 37839), (702, 37821), (705, 37815), (766, 37704), (770, 37698), (793, 37656), (805, 37638), (836, 37551), (839, 37542), (845, 37521), (850, 37491), (858, 37461), (866, 37428), (885, 37368), (895, 37338),

Gene: MaVan_49 Start: 37938, Stop: 36448, Start Num: 198

Candidate Starts for MaVan_49:

(Start: 198 @37938 has 49 MA's), (257, 37848), (Start: 266 @37821 has 1 MA's), (279, 37779), (299, 37731), (Start: 310 @37704 has 1 MA's), (362, 37623), (364, 37620), (368, 37614), (389, 37593), (417, 37527), (479, 37437), (484, 37425), (509, 37362), (512, 37347), (518, 37332), (569, 37215), (572, 37206), (611, 37128), (648, 37101), (651, 37089), (653, 37077), (685, 37038), (694, 37017), (695, 37014), (702, 36999), (733, 36927), (768, 36858), (793, 36813), (819, 36768), (823, 36753), (831, 36723), (839, 36699), (850, 36648), (858, 36618), (876, 36552), (884, 36528), (895, 36495), (913, 36459),

Gene: MacGully_81 Start: 56374, Stop: 54335, Start Num: 42

Candidate Starts for MacGully_81:

(Start: 42 @56374 has 1 MA's), (63, 56305), (64, 56299), (218, 55975), (242, 55951), (274, 55870), (275, 55867), (314, 55765), (321, 55756), (335, 55726), (374, 55660), (418, 55588), (466, 55519), (489, 55447), (508, 55390), (580, 55210), (593, 55186), (620, 55123), (649, 55087), (683, 55018), (686, 55012), (691, 55000), (771, 54826), (845, 54604), (851, 54571), (862, 54529), (868, 54499), (870, 54490), (881, 54466), (882, 54457), (895, 54415),

Gene: Maco6_48 Start: 38222, Stop: 36711, Start Num: 171

Candidate Starts for Maco6_48:

(Start: 171 @38222 has 2 MA's), (201, 38186), (256, 38096), (257, 38093), (271, 38045), (299, 37976), (366, 37862), (464, 37733), (479, 37682), (481, 37676), (484, 37670), (497, 37646), (512, 37592), (572, 37451), (574, 37448), (604, 37391), (653, 37319), (655, 37316), (760, 37142), (768, 37121), (793, 37076), (836, 36971), (850, 36911), (902, 36743), (913, 36722),

Gene: Madi_50 Start: 36692, Stop: 38746, Start Num: 69

Candidate Starts for Madi_50:

(Start: 69 @36692 has 45 MA's), (74, 36716), (97, 36779), (128, 36863), (143, 36905), (Start: 273 @37127 has 28 MA's), (286, 37163), (318, 37238), (339, 37277), (369, 37319), (390, 37337), (399, 37358), (405, 37370), (434, 37430), (444, 37445), (463, 37463), (489, 37541), (495, 37556), (496, 37559), (508, 37598), (514, 37619), (556, 37721), (580, 37778), (591, 37799), (593, 37802), (597, 37814), (613, 37862), (614, 37868), (632, 37916), (637, 37949), (643, 37973), (650, 37991), (660, 38021), (714, 38144), (723, 38177), (727, 38189), (735, 38204), (757, 38243), (779, 38288), (792, 38315), (824, 38399), (842, 38462), (850, 38504), (853, 38513), (855, 38522), (865, 38570), (868, 38579), (870, 38591), (875, 38606), (889, 38648),

Gene: Madruga_74 Start: 48812, Stop: 50845, Start Num: 62

Candidate Starts for Madruga_74:

(30, 48722), (Start: 62 @48812 has 3 MA's), (72, 48836), (90, 48899), (116, 48965), (135, 49016), (136, 49019), (195, 49127), (218, 49160), (Start: 247 @49199 has 139 MA's), (261, 49223), (280, 49286), (286, 49304), (292, 49325), (294, 49331), (328, 49400), (343, 49427), (352, 49439), (379, 49472), (428, 49574), (489, 49697), (500, 49727), (534, 49832), (542, 49850), (578, 49940), (580, 49943), (612, 50045), (626, 50084), (643, 50111), (649, 50123), (665, 50171), (676, 50189), (691, 50216), (697, 50228), (701, 50237), (782, 50375), (803, 50420), (835, 50525), (865, 50654), (875, 50687), (882, 50705), (900, 50759), (921, 50798),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for MaeLinda_41:

(97, 31415), (125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (466, 30728), (499, 30638), (511, 30596), (584, 30425), (608, 30389), (625, 30377), (651, 30344), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: Makima_38 Start: 27813, Stop: 26014, Start Num: 151

Candidate Starts for Makima_38:

(Start: 151 @27813 has 19 MA's), (184, 27756), (231, 27693), (348, 27438), (354, 27426), (404, 27342), (465, 27204), (511, 27054), (524, 27018), (535, 26982), (552, 26928), (558, 26907), (616, 26757), (625, 26736), (638, 26679), (639, 26673), (675, 26628), (686, 26604), (689, 26598), (696, 26574), (713, 26544), (735, 26535), (782, 26460), (791, 26442), (792, 26439), (839, 26286), (853, 26226), (864, 26178), (908, 26040), (910, 26037),

Gene: Makoto_25 Start: 20576, Stop: 21970, Start Num: 219

Candidate Starts for Makoto_25:

(Start: 219 @20576 has 74 MA's), (254, 20633), (Start: 289 @20738 has 1 MA's), (329, 20825), (359, 20858), (404, 20915), (424, 20966), (449, 20996), (451, 20999), (452, 21005), (470, 21041), (475, 21059), (476, 21062), (489, 21095), (499, 21116), (560, 21248), (576, 21275), (602, 21314), (611, 21335), (624, 21341), (651, 21374), (655, 21389), (659, 21398), (698, 21443), (714, 21479), (741, 21521), (784, 21584), (793, 21602), (836, 21704), (837, 21707), (843, 21725), (844, 21728), (848, 21752), (849, 21761), (870, 21848), (903, 21938), (915, 21962),

Gene: Malvina_51 Start: 37812, Stop: 36322, Start Num: 198

Candidate Starts for Malvina_51:

(Start: 198 @37812 has 49 MA's), (230, 37770), (255, 37728), (257, 37722), (Start: 266 @37695 has 1 MA's), (283, 37641), (299, 37605), (Start: 310 @37578 has 1 MA's), (362, 37497), (364, 37494), (368, 37488), (389, 37467), (398, 37452), (417, 37401), (462, 37365), (466, 37359), (470, 37341), (479, 37311), (481, 37305), (484, 37299), (512, 37221), (572, 37080), (611, 37002), (651, 36963), (655, 36948), (685, 36912), (694, 36891), (695, 36888), (702, 36873), (715, 36846), (733, 36801), (768, 36732), (793, 36687), (794, 36684), (819, 36642), (823, 36627), (836, 36582), (837, 36579), (839, 36573), (850, 36522), (858, 36492), (884, 36402), (895, 36369), (913, 36333),

Gene: MamaPearl_26 Start: 21743, Stop: 23140, Start Num: 219

Candidate Starts for MamaPearl_26:

(Start: 219 @21743 has 74 MA's), (254, 21803), (Start: 289 @21908 has 1 MA's), (290, 21911), (329, 21995), (359, 22028), (401, 22079), (404, 22085), (449, 22166), (452, 22175), (470, 22211), (475, 22229), (476, 22232), (489, 22265), (499, 22286), (560, 22418), (597, 22475), (602, 22484), (611, 22505), (624, 22511), (651, 22544), (655, 22559), (701, 22619), (714, 22649), (770, 22730), (793, 22772), (816, 22805), (834, 22868), (837, 22877), (841, 22889), (843, 22895), (846, 22910), (848, 22922), (849, 22931), (870, 23018), (889, 23075), (903, 23108),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for ManRay_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (655, 30027), (701, 29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 253

Candidate Starts for Mandalorian_39:

(Start: 249 @30638 has 8 MA's), (Start: 253 @30635 has 24 MA's), (265, 30605), (Start: 266 @30599 has 1 MA's), (Start: 310 @30491 has 1 MA's), (312, 30485), (389, 30374), (404, 30347), (424, 30296), (430, 30287), (457, 30260), (462, 30257), (475, 30215), (499, 30161), (557, 30005), (582, 29954), (584, 29948), (600, 29927), (605, 29921), (608, 29912), (625, 29900), (642, 29888), (674, 29810), (701, 29750), (703, 29744), (728, 29696), (750, 29654), (789, 29591), (795, 29579), (813, 29555), (816, 29552), (836, 29483), (839, 29474), (844, 29459), (845, 29453), (846, 29447), (848, 29435), (875, 29330), (882, 29312), (885, 29300), (902, 29255),

Gene: Mareelih_167 Start: 96276, Stop: 94366, Start Num: 147

Candidate Starts for Mareelih_167:

(Start: 147 @96276 has 5 MA's), (264, 96072), (278, 96024), (296, 95979), (333, 95898), (341, 95886), (401, 95781), (408, 95754), (460, 95649), (468, 95625), (526, 95460), (621, 95193), (625, 95184), (634, 95157), (651, 95088), (773, 94839), (801, 94773), (815, 94749), (846, 94614), (860, 94554), (878, 94482),

Gene: Margaret_58 Start: 39745, Stop: 38270, Start Num: 202

Candidate Starts for Margaret_58:

(Start: 202 @39745 has 10 MA's), (230, 39703), (257, 39655), (Start: 266 @39628 has 1 MA's), (274, 39598), (283, 39574), (290, 39553), (293, 39544), (299, 39538), (Start: 310 @39511 has 1 MA's), (346, 39454), (353, 39445), (364, 39427), (368, 39421), (462, 39298), (479, 39244), (481, 39238), (484, 39232), (509, 39169), (512, 39154), (518, 39139), (605, 38950), (608, 38941), (625, 38929), (648, 38908), (660, 38869), (664, 38860), (694, 38824), (702, 38806), (705, 38800), (730, 38755), (733, 38749), (768, 38680), (794, 38632), (805, 38617), (819, 38590), (823, 38575), (839, 38521), (850, 38470), (866, 38407), (882, 38359), (885, 38347), (888, 38338),

Gene: Maria1952_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for Maria1952_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: Marietta_72 Start: 52748, Stop: 50667, Start Num: 38

Candidate Starts for Marietta_72:

(10, 52940), (12, 52922), (18, 52847), (Start: 38 @52748 has 35 MA's), (274, 52229), (286, 52196), (292, 52175), (316, 52121), (321, 52115), (323, 52112), (374, 52022), (376, 52019), (413, 51959), (492, 51803), (542, 51656), (580, 51548), (593, 51524), (649, 51422), (667, 51368), (683, 51353), (718, 51272), (735, 51233), (767, 51170), (779, 51131), (782, 51125), (796, 51095), (836, 50978), (851, 50915), (865, 50852), (870, 50834), (899, 50750),

Gene: Marky_44 Start: 31624, Stop: 33015, Start Num: 228

Candidate Starts for Marky_44:

(211, 31615), (Start: 228 @31624 has 3 MA's), (231, 31630), (265, 31699), (270, 31723), (Start: 289 @31768 has 1 MA's), (342, 31861), (401, 31927), (464, 32038), (473, 32068), (474, 32071), (523, 32194), (587, 32329), (605, 32356), (624, 32377), (646, 32398), (651, 32410), (726, 32539), (772, 32608), (784, 32629), (793, 32647), (805, 32665), (827, 32719), (836, 32749), (849, 32806), (850, 32809), (863, 32857), (882, 32926), (901, 32980), (909, 32998),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 247

Candidate Starts for Martin_42:

(14, 31774), (97, 31420), (125, 31345), (Start: 247 @31123 has 139 MA's), (308, 30979), (Start: 310 @30973 has 1 MA's), (311, 30970), (389, 30856), (404, 30829), (430, 30769), (457, 30742), (462, 30739), (499, 30643), (511, 30601), (580, 30439), (584, 30430), (600, 30409), (608, 30394), (625, 30382), (655, 30334), (701, 30274), (753, 30178), (789, 30115), (820, 30061), (845, 29977), (846, 29971), (848, 29959), (872, 29863), (890, 29809), (891, 29806), (900, 29782),

Gene: Maselop_72 Start: 53166, Stop: 51130, Start Num: 40

Candidate Starts for Maselop_72:

(13, 53334), (Start: 40 @53166 has 6 MA's), (Start: 61 @53100 has 1 MA's), (76, 53058), (116, 52953), (215, 52773), (260, 52716), (274, 52665), (280, 52650), (314, 52560), (323, 52548), (374, 52455), (418, 52383), (466, 52314), (489, 52242), (508, 52185), (580, 52005), (593, 51981), (620, 51918), (649, 51882), (691, 51795), (749, 51663), (769, 51624), (771, 51621), (782, 51576), (836, 51429), (851, 51366), (862, 51324), (870, 51285), (881, 51261),

Gene: Mayweather_61 Start: 41658, Stop: 40414, Start Num: 310

Candidate Starts for Mayweather_61:

(Start: 198 @41892 has 49 MA's), (Start: 241 @41829 has 2 MA's), (257, 41802), (Start: 266 @41775 has 1 MA's), (283, 41721), (290, 41700), (291, 41697), (299, 41685), (306, 41670), (Start: 310 @41658 has 1 MA's), (368, 41565), (462, 41442), (479, 41388), (481, 41382), (484, 41376), (512, 41298), (518, 41283), (559, 41184), (605, 41094), (608, 41085), (625, 41073), (648, 41052), (652, 41037), (653, 41028), (663, 41007), (694, 40968), (698, 40959), (705, 40944), (728, 40902), (768, 40824), (770, 40821), (793, 40779), (805, 40761), (839, 40665), (850, 40614), (858, 40584), (866, 40551), (884, 40494), (889, 40479),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 243

Candidate Starts for Mbo2_52:

(187, 43012), (Start: 243 @42925 has 3 MA's), (277, 42838), (288, 42802), (297, 42784), (306, 42769), (311, 42754), (320, 42742), (329, 42730), (331, 42724), (360, 42682), (432, 42559), (488, 42445), (519, 42370), (542, 42316), (579, 42241), (581, 42238), (594, 42214), (623, 42175), (651, 42136), (671, 42094), (765, 41911), (799, 41851), (809, 41833), (826, 41788), (827, 41785), (840, 41737), (843, 41728), (847, 41707), (850, 41689), (856, 41665), (863, 41641), (874, 41599), (882, 41572), (885, 41560), (895, 41530), (902, 41515), (925, 41473),

Gene: McDazzle_58 Start: 40821, Stop: 39343, Start Num: 198

Candidate Starts for McDazzle_58:

(139, 40902), (170, 40848), (Start: 198 @40821 has 49 MA's), (Start: 241 @40758 has 2 MA's), (255, 40737), (257, 40731), (Start: 266 @40704 has 1 MA's), (283, 40650), (290, 40629), (299, 40614), (306, 40599), (353, 40518), (368, 40494), (417, 40407), (462, 40371), (479, 40317), (481, 40311), (484, 40305), (512, 40227), (518, 40212), (556, 40122), (559, 40113), (572, 40086), (605, 40023), (608, 40014), (625, 40002), (648, 39981), (652, 39966), (653, 39957), (663, 39936), (694, 39897), (698, 39888), (705, 39873), (728, 39831), (745, 39801), (768, 39753), (770, 39750), (793, 39708), (805, 39690), (839, 39594), (850, 39543), (858, 39513), (866, 39480), (884, 39423), (889, 39408),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 250

Candidate Starts for McGalleon_43:

(Start: 114 @32789 has 3 MA's), (131, 32738), (179, 32648), (Start: 250 @32555 has 24 MA's), (308, 32411), (Start: 310 @32405 has 1 MA's), (346, 32342), (389, 32288), (404, 32261), (430, 32201), (457, 32174), (462, 32171), (498, 32078), (499, 32075), (511, 32033), (580, 31871), (584, 31862), (600, 31841), (625, 31814), (657, 31763), (701, 31706), (728, 31652), (753, 31610), (774, 31565), (838, 31433), (845, 31409), (846, 31403), (848, 31391), (872, 31295), (882, 31268), (890, 31241), (900, 31214), (919, 31184),

Gene: MeganNoll_29 Start: 22157, Stop: 23557, Start Num: 219

Candidate Starts for MeganNoll_29:

(Start: 219 @22157 has 74 MA's), (254, 22220), (Start: 289 @22325 has 1 MA's), (290, 22328), (329, 22412), (359, 22445), (401, 22496), (404, 22502), (449, 22583), (451, 22586), (452, 22592), (470, 22628), (475, 22646), (476, 22649), (499, 22703), (522, 22754), (560, 22835), (576, 22862), (597, 22892), (602, 22901), (624, 22928), (651, 22961), (655, 22976), (698, 23030), (707, 23051), (712, 23063), (722, 23075), (838, 23297), (841, 23306), (843, 23312), (849, 23348), (864, 23408), (870, 23435), (903, 23525),

Gene: Megatron06_62 Start: 46630, Stop: 48687, Start Num: 58

Candidate Starts for Megatron06_62:

(Start: 58 @46630 has 58 MA's), (79, 46690), (80, 46693), (Start: 114 @46786 has 3 MA's), (119, 46798), (127, 46819), (186, 46942), (188, 46945), (195, 46954), (218, 46987), (226, 47008), (Start: 247 @47056 has 139 MA's), (Start: 266 @47098 has 1 MA's), (286, 47161), (292, 47182), (294, 47188), (321, 47242), (428, 47428), (434, 47440), (455, 47458), (463, 47473), (466, 47479), (580, 47797), (582, 47800), (604, 47845), (643, 47896), (649, 47908), (691, 47998), (697, 48010), (711, 48043), (723, 48067), (725, 48076), (782, 48166), (798, 48199), (835, 48310), (836, 48313), (837, 48316), (838, 48319), (847, 48355), (850, 48373), (865, 48439), (870, 48457), (933, 48634),

Gene: MerCougar_75 Start: 57668, Stop: 55593, Start Num: 38

Candidate Starts for MerCougar_75:

(Start: 38 @57668 has 35 MA's), (76, 57548), (Start: 91 @57503 has 1 MA's), (93, 57500), (215, 57257), (260, 57200), (274, 57149), (292, 57095), (323, 57032), (374, 56942), (376, 56939), (393, 56915), (413, 56879), (492, 56723), (500, 56699), (542, 56576), (580, 56465), (593, 56441), (649, 56342), (667, 56288), (701, 56234), (718, 56192), (735, 56153), (749, 56126), (771, 56084), (779, 56051), (796, 56015), (817, 55970), (820, 55958), (836, 55898), (870, 55754), (899, 55670),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 250

Candidate Starts for Mercedes_36:

(Start: 250 @28234 has 24 MA's), (265, 28198), (297, 28114), (342, 28027), (346, 28021), (396, 27949), (401, 27937), (457, 27844), (462, 27841), (478, 27790), (557, 27586), (584, 27529), (625, 27481), (651, 27448), (657, 27430), (701, 27334), (705, 27325), (728, 27280), (732, 27274), (753, 27238), (774, 27193), (789, 27175), (836, 27067), (839, 27058), (844, 27043), (845, 27037), (889, 26872),

Gene: Merida02_43 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for Merida02_43:

(125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (466, 30727), (499, 30637), (511, 30595), (584, 30424), (608, 30388), (625, 30376), (651, 30343), (655, 30328), (701, 30268), (753, 30172), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: Microdon_41 Start: 30843, Stop: 32237, Start Num: 224

Candidate Starts for Microdon_41:

(Start: 224 @30843 has 13 MA's), (Start: 228 @30846 has 3 MA's), (265, 30921), (270, 30945), (272, 30951), (284, 30975), (Start: 289 @30990 has 1 MA's), (290, 30993), (325, 31065), (341, 31080), (370, 31116), (430, 31215), (523, 31416), (587, 31551), (605, 31578), (624, 31599), (686, 31677), (701, 31710), (705, 31719), (726, 31761), (770, 31827), (772, 31830), (784, 31851), (793, 31869), (805, 31887), (827, 31941), (836, 31971), (849, 32028), (850, 32031), (863, 32079), (871, 32118), (876, 32133), (901, 32202), (909, 32220), (915, 32229),

Gene: Milani_33 Start: 22173, Stop: 23600, Start Num: 220

Candidate Starts for Milani_33:

(Start: 220 @22173 has 2 MA's), (401, 22527), (403, 22530), (409, 22551), (464, 22638), (624, 22974), (646, 22995), (655, 23022), (685, 23049), (686, 23052), (701, 23085), (717, 23121), (770, 23196), (784, 23220), (819, 23283), (827, 23304), (844, 23358), (849, 23391), (853, 23403), (863, 23442), (870, 23478), (872, 23484), (876, 23496), (882, 23511), (898, 23559), (903, 23568), (915, 23592),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 247

Candidate Starts for MillyPhilly_41:

(14, 31762), (97, 31408), (125, 31333), (Start: 247 @31111 has 139 MA's), (308, 30967), (Start: 310 @30961 has 1 MA's), (311, 30958), (389, 30844), (404, 30817), (430, 30757), (457, 30730), (462, 30727), (499, 30631), (511, 30589), (580, 30427), (584, 30418), (600, 30397), (608, 30382), (625, 30370), (655, 30322), (701, 30262), (753, 30166), (789, 30103), (820, 30049), (845, 29965), (846, 29959), (848, 29947), (872, 29851), (890, 29797), (891, 29794), (900, 29770),

Gene: Mima20_60 Start: 40803, Stop: 42716, Start Num: 58

Candidate Starts for Mima20_60:

(Start: 57 @40800 has 13 MA's), (Start: 58 @40803 has 58 MA's), (Start: 69 @40815 has 45 MA's), (81, 40863), (94, 40896), (120, 40965), (158, 41055), (176, 41082), (182, 41091), (236, 41163), (286, 41283), (311, 41346), (367, 41436), (385, 41463), (463, 41592), (470, 41616), (484, 41658), (502, 41706), (508, 41727), (514, 41748), (534, 41805), (557, 41859), (574, 41901), (604, 41961), (659, 42057), (660, 42060), (764, 42237), (792, 42288), (826, 42378), (836, 42414), (838, 42420), (850, 42474), (861, 42513), (888, 42615), (893, 42630), (902, 42651),

Gene: Mimi_101 Start: 80085, Stop: 81923, Start Num: 148

Candidate Starts for Mimi_101:

(Start: 148 @80085 has 12 MA's), (197, 80166), (245, 80244), (280, 80340), (329, 80400), (346, 80430), (408, 80550), (433, 80601), (463, 80661), (577, 81000), (602, 81057), (610, 81078), (625, 81123), (638, 81180), (639, 81186), (651, 81219), (653, 81231), (659, 81243), (682, 81288), (697, 81327), (754, 81384), (759, 81390), (773, 81423), (808, 81492), (832, 81576), (857, 81693), (912, 81867), (930, 81909),

Gene: MiniVolent_38 Start: 30515, Stop: 29145, Start Num: 253

Candidate Starts for MiniVolent_38:

(Start: 249 @30518 has 8 MA's), (Start: 253 @30515 has 24 MA's), (Start: 289 @30413 has 1 MA's), (389, 30254), (404, 30227), (430, 30167), (457, 30140), (462, 30137), (491, 30056), (499, 30041), (584, 29828), (600, 29807), (605, 29801), (608, 29792), (642, 29768), (651, 29747), (655, 29732), (668, 29708), (701, 29672), (728, 29618), (789, 29513), (795, 29501), (816, 29474), (826, 29441), (836, 29405), (839, 29396), (844, 29381), (845, 29375), (846, 29369), (848, 29357), (872, 29261), (875, 29252), (882, 29234), (885, 29222), (900, 29180), (914, 29153),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 273

Candidate Starts for Minos_58:

(94, 52949), (142, 52820), (191, 52733), (Start: 194 @52730 has 3 MA's), (Start: 273 @52601 has 28 MA's), (288, 52556), (329, 52466), (330, 52463), (333, 52457), (346, 52436), (395, 52373), (453, 52265), (465, 52247), (499, 52160), (504, 52145), (521, 52103), (557, 52022), (581, 51974), (603, 51932), (609, 51914), (623, 51911), (648, 51884), (665, 51833), (689, 51797), (711, 51746), (756, 51662), (765, 51641), (844, 51485), (845, 51479), (847, 51467), (878, 51341), (925, 51227),

Gene: Mireles_41 Start: 27371, Stop: 25572, Start Num: 151

Candidate Starts for Mireles_41:

(Start: 151 @27371 has 19 MA's), (184, 27314), (231, 27251), (348, 26996), (354, 26984), (404, 26900), (456, 26789), (465, 26762), (511, 26612), (524, 26576), (535, 26540), (552, 26486), (558, 26465), (625, 26294), (638, 26237), (639, 26231), (675, 26186), (686, 26162), (689, 26156), (696, 26132), (713, 26102), (735, 26093), (782, 26018), (791, 26000), (792, 25997), (839, 25844), (853, 25784), (864, 25736), (908, 25598), (910, 25595),

Gene: Misaeng_29 Start: 22230, Stop: 23621, Start Num: 219

Candidate Starts for Misaeng_29:

(Start: 219 @22230 has 74 MA's), (Start: 266 @22317 has 1 MA's), (Start: 289 @22389 has 1 MA's), (290, 22392), (320, 22458), (329, 22476), (359, 22509), (404, 22566), (449, 22647), (452, 22656), (470, 22692), (475, 22710), (489, 22746), (499, 22767), (505, 22785), (522, 22818), (560, 22899), (576, 22926), (590, 22950), (611, 22986), (624, 22992), (651, 23025), (655, 23040), (659, 23049), (698, 23094), (712, 23127), (714, 23130), (772, 23214), (791, 23247), (793, 23253), (803, 23265), (836, 23355), (838, 23361), (843, 23376), (844, 23379), (846, 23391), (848, 23403), (849, 23412), (870, 23499), (903, 23589),

Gene: MoiGyank_63 Start: 41576, Stop: 43489, Start Num: 58

Candidate Starts for MoiGyank_63:

(Start: 57 @41573 has 13 MA's), (Start: 58 @41576 has 58 MA's), (Start: 69 @41588 has 45 MA's), (81, 41636), (94, 41669), (120, 41738), (158, 41828), (176, 41855), (182, 41864), (236, 41936), (286, 42056), (311, 42119), (367, 42209), (463, 42365), (470, 42389), (484, 42431), (502, 42479), (508, 42500), (514, 42521), (534, 42578), (542, 42596), (557, 42632), (574, 42674), (604, 42734), (659, 42830), (660, 42833), (764, 43010), (792, 43061), (826, 43151), (836, 43187), (838, 43193), (847, 43229), (850, 43247), (861, 43286), (888, 43388), (893, 43403), (902, 43424),

Gene: Moki_25 Start: 20566, Stop: 21960, Start Num: 219

Candidate Starts for Moki_25:

(Start: 219 @20566 has 74 MA's), (254, 20623), (Start: 289 @20728 has 1 MA's), (329, 20815), (359, 20848), (403, 20902), (404, 20905), (452, 20995), (470, 21031), (475, 21049), (476, 21052), (499, 21106), (560, 21238), (576, 21265), (597, 21295), (602, 21304), (624, 21331), (651, 21364), (655, 21379), (686, 21406), (698, 21433), (714, 21469), (741, 21511), (784, 21574), (793, 21592), (827, 21664), (834, 21688), (836, 21694), (837, 21697), (843, 21715), (844, 21718), (848, 21742), (849, 21751), (870, 21838), (887, 21889), (903, 21928),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 247

Candidate Starts for MonChoix_39:

(Start: 247 @31157 has 139 MA's), (308, 31010), (Start: 310 @31004 has 1 MA's), (311, 31001), (389, 30887), (404, 30860), (430, 30800), (457, 30773), (462, 30770), (499, 30674), (511, 30632), (584, 30461), (605, 30434), (655, 30365), (701, 30305), (820, 30092), (826, 30074), (836, 30038), (845, 30008), (846, 30002), (848, 29990), (872, 29894), (890, 29840), (891, 29837),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 221

Candidate Starts for Monty_58:

(94, 51731), (112, 51680), (129, 51629), (153, 51575), (169, 51545), (Start: 194 @51512 has 3 MA's), (Start: 203 @51503 has 1 MA's), (Start: 221 @51476 has 28 MA's), (288, 51308), (306, 51266), (329,

51218), (334, 51206), (342, 51194), (346, 51188), (362, 51167), (384, 51140), (465, 50999), (499, 50912), (504, 50897), (507, 50885), (521, 50855), (542, 50804), (554, 50777), (581, 50726), (609, 50666), (623, 50663), (648, 50636), (662, 50594), (689, 50549), (756, 50414), (763, 50399), (773, 50378), (826, 50297), (827, 50294), (844, 50237), (845, 50231), (846, 50225), (847, 50219), (864, 50144), (874, 50105), (878, 50093), (880, 50090), (919, 49997), (925, 49982), (931, 49961),

Gene: MontyDev_68 Start: 47606, Stop: 49366, Start Num: 200

Candidate Starts for MontyDev_68:

(Start: 200 @47606 has 10 MA's), (Start: 250 @47675 has 24 MA's), (283, 47771), (287, 47780), (322, 47861), (346, 47906), (440, 48083), (463, 48107), (477, 48155), (500, 48215), (504, 48227), (526, 48293), (569, 48416), (580, 48440), (593, 48464), (649, 48668), (659, 48701), (665, 48716), (691, 48755), (692, 48758), (697, 48767), (735, 48836), (803, 48968), (836, 49091), (837, 49094), (845, 49121), (850, 49151), (852, 49157), (853, 49160), (857, 49178), (861, 49190), (902, 49325), (919, 49352), (920, 49355),

Gene: Mopey_54 Start: 39729, Stop: 41672, Start Num: 58

Candidate Starts for Mopey_54:

(Start: 58 @39729 has 58 MA's), (72, 39756), (Start: 95 @39828 has 1 MA's), (115, 39882), (138, 39942), (145, 39960), (150, 39969), (180, 40020), (210, 40062), (236, 40098), (274, 40185), (308, 40278), (316, 40293), (328, 40314), (399, 40416), (411, 40449), (424, 40473), (466, 40533), (495, 40620), (518, 40695), (557, 40785), (580, 40836), (582, 40839), (628, 40929), (649, 40947), (659, 40980), (691, 41034), (697, 41046), (705, 41064), (735, 41127), (779, 41211), (826, 41328), (836, 41376), (851, 41439), (870, 41523),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 252

Candidate Starts for Morrigan_42:

(Start: 250 @30543 has 24 MA's), (Start: 252 @30540 has 1 MA's), (263, 30513), (Start: 266 @30501 has 1 MA's), (267, 30498), (Start: 289 @30435 has 1 MA's), (346, 30330), (378, 30279), (389, 30267), (457, 30153), (462, 30150), (475, 30108), (497, 30057), (584, 29838), (625, 29790), (642, 29778), (645, 29775), (648, 29769), (651, 29757), (685, 29718), (701, 29682), (706, 29670), (728, 29628), (746, 29595), (753, 29586), (755, 29583), (789, 29523), (836, 29415), (839, 29406), (844, 29391), (845, 29385), (846, 29379), (848, 29367), (875, 29262), (882, 29244), (889, 29220), (900, 29190),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 69

Candidate Starts for MortySmith_38:

(19, 24800), (Start: 69 @24974 has 45 MA's), (85, 25037), (98, 25058), (116, 25112), (186, 25247), (218, 25289), (Start: 252 @25334 has 1 MA's), (314, 25508), (323, 25517), (374, 25607), (400, 25649), (406, 25664), (486, 25850), (534, 25985), (540, 25997), (556, 26030), (649, 26159), (705, 26276), (836, 26585), (837, 26588), (850, 26648), (871, 26738), (882, 26768), (895, 26810), (923, 26861),

Gene: MrBoss_30 Start: 22115, Stop: 23509, Start Num: 219

Candidate Starts for MrBoss_30:

(Start: 219 @22115 has 74 MA's), (254, 22172), (Start: 289 @22277 has 1 MA's), (329, 22364), (401, 22448), (403, 22451), (404, 22454), (452, 22544), (470, 22580), (473, 22589), (475, 22598), (499, 22655), (505, 22673), (522, 22706), (560, 22787), (576, 22814), (590, 22838), (624, 22880), (651, 22913), (655, 22928), (722, 23027), (784, 23123), (793, 23141), (803, 23153), (836, 23243), (838, 23249), (841, 23258), (843, 23264), (849, 23300), (870, 23387), (887, 23438), (889, 23444), (903, 23477), (915, 23501),

Gene: MrMiyagi_73 Start: 45205, Stop: 47052, Start Num: 89

Candidate Starts for MrMiyagi_73:

(Start: 89 @45205 has 3 MA's), (100, 45223), (111, 45259), (133, 45310), (195, 45418), (218, 45451), (260, 45511), (271, 45553), (284, 45592), (326, 45688), (331, 45700), (348, 45727), (356, 45742),

(361, 45751), (390, 45790), (397, 45805), (434, 45892), (442, 45904), (489, 46003), (492, 46009), (500, 46033), (518, 46093), (551, 46171), (562, 46198), (574, 46228), (580, 46240), (593, 46264), (649, 46342), (659, 46375), (665, 46390), (685, 46414), (686, 46417), (697, 46441), (836, 46765), (839, 46774), (846, 46801), (850, 46825), (862, 46870), (870, 46912), (886, 46960), (892, 46978), (922, 47035),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for MrWorldwide_41:

(14, 31772), (97, 31418), (125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (580, 30437), (584, 30428), (600, 30407), (608, 30392), (625, 30380), (655, 30332), (701, 30272), (753, 30176), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 273

Candidate Starts for MrWormie_57:

(94, 52110), (142, 51981), (Start: 194 @51891 has 3 MA's), (Start: 273 @51762 has 28 MA's), (288, 51717), (329, 51627), (330, 51624), (333, 51618), (346, 51597), (395, 51534), (453, 51426), (465, 51408), (499, 51321), (504, 51306), (521, 51264), (557, 51183), (581, 51135), (603, 51093), (609, 51075), (623, 51072), (648, 51045), (665, 50994), (689, 50958), (711, 50907), (756, 50823), (765, 50802), (844, 50646), (845, 50640), (847, 50628), (878, 50502), (925, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 221

Candidate Starts for Msay19_64:

(94, 54301), (112, 54250), (153, 54145), (169, 54115), (Start: 194 @54082 has 3 MA's), (Start: 203 @54073 has 1 MA's), (Start: 221 @54046 has 28 MA's), (288, 53878), (306, 53836), (312, 53818), (329, 53788), (334, 53776), (342, 53764), (346, 53758), (362, 53737), (465, 53569), (499, 53482), (504, 53467), (507, 53455), (521, 53425), (542, 53374), (581, 53296), (594, 53272), (603, 53254), (609, 53236), (623, 53233), (627, 53224), (648, 53206), (662, 53164), (689, 53119), (697, 53101), (756, 52984), (763, 52969), (773, 52948), (826, 52867), (827, 52864), (844, 52807), (845, 52801), (847, 52789), (864, 52714), (874, 52675), (878, 52663), (880, 52660), (919, 52567), (925, 52552),

Gene: Muddy_50 Start: 39454, Stop: 37943, Start Num: 171

Candidate Starts for Muddy_50:

(Start: 171 @39454 has 2 MA's), (201, 39418), (256, 39328), (257, 39325), (271, 39277), (299, 39208), (366, 39094), (464, 38965), (479, 38914), (481, 38908), (484, 38902), (497, 38878), (512, 38824), (572, 38683), (574, 38680), (604, 38623), (653, 38551), (655, 38548), (760, 38374), (768, 38353), (793, 38308), (836, 38203), (850, 38143), (902, 37975), (913, 37954),

Gene: MunkgeeRoachy_51 Start: 38189, Stop: 36711, Start Num: 198

Candidate Starts for MunkgeeRoachy_51:

(Start: 198 @38189 has 49 MA's), (257, 38096), (283, 38015), (290, 37994), (362, 37871), (364, 37868), (479, 37685), (481, 37679), (484, 37673), (499, 37643), (512, 37595), (559, 37481), (572, 37454), (584, 37430), (625, 37370), (653, 37325), (663, 37304), (694, 37265), (702, 37247), (705, 37241), (793, 37082), (794, 37079), (805, 37064), (839, 36968), (845, 36947), (850, 36917),

Gene: NadineRae_71 Start: 52357, Stop: 50276, Start Num: 38

Candidate Starts for NadineRae_71:

(Start: 38 @52357 has 35 MA's), (116, 52126), (274, 51838), (286, 51805), (292, 51784), (316, 51730), (321, 51724), (323, 51721), (374, 51631), (376, 51628), (413, 51568), (492, 51412), (542, 51265), (568, 51184), (580, 51157), (593, 51133), (649, 51031), (667, 50977), (683, 50962), (718, 50881), (735, 50842), (767, 50779), (779, 50740), (782, 50734), (796, 50704), (836, 50587), (851, 50524), (865, 50461), (870, 50443), (899, 50359),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Nagem_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (866, 29875), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Nancia_25 Start: 20580, Stop: 21974, Start Num: 219

Candidate Starts for Nancia_25:

(Start: 219 @20580 has 74 MA's), (254, 20637), (Start: 289 @20742 has 1 MA's), (290, 20745), (329, 20829), (359, 20862), (401, 20913), (404, 20919), (449, 21000), (451, 21003), (452, 21009), (470, 21045), (475, 21063), (476, 21066), (489, 21099), (499, 21120), (560, 21252), (576, 21279), (602, 21318), (611, 21339), (624, 21345), (651, 21378), (655, 21393), (659, 21402), (698, 21447), (714, 21483), (741, 21525), (784, 21588), (793, 21606), (836, 21708), (837, 21711), (843, 21729), (844, 21732), (848, 21756), (849, 21765), (870, 21852), (903, 21942), (915, 21966),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 69

Candidate Starts for NarutoRun_40:

(Start: 69 @25911 has 45 MA's), (85, 25974), (98, 25995), (116, 26049), (218, 26226), (Start: 252 @26271 has 1 MA's), (314, 26445), (323, 26454), (374, 26544), (406, 26601), (486, 26787), (534, 26922), (540, 26934), (556, 26967), (649, 27096), (705, 27213), (749, 27288), (836, 27522), (837, 27525), (850, 27585), (871, 27675), (882, 27705), (895, 27747), (923, 27798),

Gene: NatB6_72 Start: 55674, Stop: 53746, Start Num: 82

Candidate Starts for NatB6_72:

(2, 56310), (6, 56109), (9, 56016), (10, 56004), (12, 55986), (Start: 38 @55812 has 35 MA's), (Start: 82 @55674 has 2 MA's), (87, 55650), (182, 55446), (215, 55401), (274, 55293), (321, 55179), (323, 55176), (374, 55086), (376, 55083), (413, 55023), (484, 54885), (492, 54867), (500, 54843), (542, 54720), (580, 54615), (649, 54489), (667, 54435), (686, 54414), (735, 54300), (779, 54204), (782, 54198), (796, 54168), (820, 54111), (836, 54051), (851, 53988), (870, 53907),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Nattles_40:

(125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (498, 30326), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (625, 30062), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (866, 29564), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 247

Candidate Starts for Nebulous_39:

(Start: 247 @32131 has 139 MA's), (263, 32098), (276, 32053), (Start: 310 @31978 has 1 MA's), (311, 31975), (396, 31843), (401, 31831), (457, 31738), (462, 31735), (464, 31732), (509, 31603), (582, 31429), (584, 31423), (600, 31402), (625, 31375), (642, 31363), (645, 31360), (651, 31342), (675, 31285), (701, 31228), (706, 31216), (728, 31174), (753, 31132), (765, 31108), (789, 31069), (820, 31015), (836, 30961), (839, 30952), (844, 30937), (845, 30931), (875, 30808), (882, 30790), (889, 30766),

Gene: Neferthema_41 Start: 31335, Stop: 29905, Start Num: 247

Candidate Starts for Neferthema_41:

(Start: 247 @31335 has 139 MA's), (263, 31302), (276, 31257), (308, 31188), (Start: 310 @31182 has 1 MA's), (311, 31179), (396, 31047), (457, 30942), (462, 30939), (582, 30633), (584, 30627), (600, 30606), (625, 30579), (651, 30546), (675, 30489), (694, 30447), (701, 30432), (706, 30420), (728, 30378), (753, 30336), (765, 30312), (774, 30291), (789, 30273), (820, 30219), (836, 30165), (839, 30156), (844, 30141), (845, 30135), (872, 30021), (887, 29976), (889, 29970), (896, 29949), (900, 29940),

Gene: Neoevie_57 Start: 52863, Stop: 51451, Start Num: 273

Candidate Starts for Neoevie_57:

(94, 53211), (142, 53082), (191, 52995), (Start: 194 @52992 has 3 MA's), (Start: 273 @52863 has 28 MA's), (288, 52818), (329, 52728), (330, 52725), (333, 52719), (346, 52698), (395, 52635), (453, 52527), (465, 52509), (499, 52422), (504, 52407), (521, 52365), (557, 52284), (581, 52236), (603, 52194), (609, 52176), (623, 52173), (648, 52146), (665, 52095), (689, 52059), (711, 52008), (756, 51924), (765, 51903), (844, 51747), (845, 51741), (847, 51729), (878, 51603), (925, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 69

Candidate Starts for Neptune_40:

(Start: 69 @25911 has 45 MA's), (85, 25974), (98, 25995), (116, 26049), (218, 26226), (Start: 252 @26271 has 1 MA's), (314, 26445), (323, 26454), (374, 26544), (486, 26787), (534, 26922), (540, 26934), (556, 26967), (649, 27096), (705, 27213), (749, 27288), (836, 27522), (837, 27525), (850, 27585), (871, 27675), (882, 27705), (895, 27747), (923, 27798),

Gene: Neuville_38 Start: 26376, Stop: 24544, Start Num: 151

Candidate Starts for Neuville_38:

(Start: 151 @26376 has 19 MA's), (184, 26319), (283, 26118), (354, 25983), (423, 25848), (437, 25821), (465, 25764), (468, 25749), (487, 25695), (516, 25599), (518, 25593), (524, 25578), (539, 25533), (552, 25485), (558, 25464), (566, 25446), (588, 25395), (619, 25302), (625, 25290), (639, 25227), (676, 25155), (704, 25095), (713, 25074), (773, 25008), (782, 24990), (791, 24972), (792, 24969), (811, 24933), (836, 24825), (839, 24816), (853, 24756), (864, 24708),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 273

Candidate Starts for Newt_58:

(94, 53439), (142, 53310), (191, 53223), (Start: 194 @53220 has 3 MA's), (Start: 273 @53091 has 28 MA's), (288, 53046), (329, 52956), (330, 52953), (333, 52947), (346, 52926), (395, 52863), (453, 52755), (465, 52737), (499, 52650), (504, 52635), (521, 52593), (557, 52512), (581, 52464), (603, 52422), (609, 52404), (623, 52401), (648, 52374), (665, 52323), (689, 52287), (711, 52236), (756, 52152), (765, 52131), (844, 51975), (845, 51969), (847, 51957), (878, 51831), (925, 51717),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 117

Candidate Starts for Niagara_57:

(Start: 117 @53309 has 9 MA's), (Start: 121 @53297 has 2 MA's), (227, 53114), (Start: 273 @53024 has 28 MA's), (277, 53015), (288, 52979), (297, 52955), (301, 52946), (306, 52937), (329, 52889), (342, 52865), (395, 52793), (404, 52772), (420, 52736), (422, 52733), (485, 52604), (488, 52601), (504, 52565), (505, 52562), (511, 52544), (517, 52535), (521, 52523), (541, 52475), (557, 52442), (581, 52394), (594, 52370), (648, 52304), (689, 52205), (736, 52106), (741, 52097), (754, 52073), (756, 52070), (819, 51977), (826, 51953), (827, 51950), (844, 51893), (847, 51875), (874, 51758), (875, 51755), (880, 51743), (925, 51644), (931, 51623),

Gene: Nibbles_48 Start: 37634, Stop: 36144, Start Num: 198

Candidate Starts for Nibbles_48:

(Start: 198 @37634 has 49 MA's), (257, 37544), (Start: 266 @37517 has 1 MA's), (279, 37475), (293, 37433), (299, 37427), (Start: 310 @37400 has 1 MA's), (362, 37319), (364, 37316), (368, 37310), (389, 37289), (417, 37223), (479, 37133), (484, 37121), (512, 37043), (518, 37028), (569, 36911), (572,

36902), (611, 36824), (648, 36797), (651, 36785), (653, 36773), (685, 36734), (694, 36713), (695, 36710), (702, 36695), (733, 36623), (793, 36509), (819, 36464), (823, 36449), (831, 36419), (839, 36395), (850, 36344), (851, 36341), (858, 36314), (876, 36248), (884, 36224), (895, 36191), (913, 36155),

Gene: NickSell_41 Start: 31124, Stop: 29736, Start Num: 247

Candidate Starts for NickSell_41:

(14, 31775), (97, 31421), (125, 31346), (Start: 247 @31124 has 139 MA's), (308, 30980), (Start: 310 @30974 has 1 MA's), (311, 30971), (389, 30857), (404, 30830), (430, 30770), (457, 30743), (462, 30740), (499, 30644), (511, 30602), (580, 30440), (584, 30431), (600, 30410), (608, 30395), (625, 30383), (655, 30335), (701, 30275), (753, 30179), (789, 30116), (820, 30062), (845, 29978), (846, 29972), (848, 29960), (872, 29864), (890, 29810), (891, 29807), (900, 29783),

Gene: Nilo_68 Start: 47960, Stop: 49720, Start Num: 200

Candidate Starts for Nilo_68:

(Start: 200 @47960 has 10 MA's), (Start: 250 @48029 has 24 MA's), (283, 48125), (287, 48134), (322, 48215), (346, 48260), (463, 48461), (477, 48509), (500, 48569), (504, 48581), (526, 48647), (569, 48770), (580, 48794), (593, 48818), (649, 49022), (659, 49055), (665, 49070), (691, 49109), (692, 49112), (697, 49121), (735, 49190), (803, 49322), (836, 49445), (837, 49448), (845, 49475), (850, 49505), (852, 49511), (853, 49514), (857, 49532), (861, 49544), (902, 49679), (920, 49709),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 273

Candidate Starts for Nimi13_57:

(94, 52958), (142, 52829), (Start: 194 @52739 has 3 MA's), (Start: 273 @52610 has 28 MA's), (288, 52565), (329, 52475), (330, 52472), (333, 52466), (346, 52445), (395, 52382), (453, 52274), (465, 52256), (499, 52169), (504, 52154), (521, 52112), (557, 52031), (581, 51983), (603, 51941), (609, 51923), (623, 51920), (648, 51893), (665, 51842), (689, 51806), (711, 51755), (756, 51671), (765, 51650), (844, 51494), (845, 51488), (847, 51476), (878, 51350), (925, 51236),

Gene: Nina_53 Start: 39329, Stop: 37851, Start Num: 198

Candidate Starts for Nina_53:

(Start: 198 @39329 has 49 MA's), (255, 39242), (257, 39236), (283, 39155), (362, 39011), (364, 39008), (479, 38825), (481, 38819), (484, 38813), (512, 38735), (559, 38621), (572, 38594), (584, 38570), (625, 38510), (653, 38465), (663, 38444), (694, 38405), (702, 38387), (766, 38270), (793, 38222), (794, 38219), (805, 38204), (839, 38108), (845, 38087), (850, 38057),

Gene: NoShow_58 Start: 42406, Stop: 40934, Start Num: 204

Candidate Starts for NoShow_58:

(Start: 204 @42406 has 2 MA's), (257, 42316), (Start: 266 @42289 has 1 MA's), (286, 42229), (346, 42115), (366, 42085), (479, 41905), (481, 41899), (484, 41893), (512, 41815), (604, 41614), (653, 41542), (655, 41539), (660, 41527), (694, 41482), (728, 41422), (745, 41392), (805, 41281), (827, 41227), (839, 41185), (850, 41134), (876, 41038), (885, 41011), (902, 40966),

Gene: Nodigi_60 Start: 41112, Stop: 39637, Start Num: 202

Candidate Starts for Nodigi_60:

(134, 41229), (136, 41223), (Start: 202 @41112 has 10 MA's), (230, 41070), (257, 41022), (Start: 266 @40995 has 1 MA's), (290, 40920), (293, 40911), (299, 40905), (346, 40821), (358, 40803), (364, 40794), (368, 40788), (462, 40665), (479, 40611), (481, 40605), (484, 40599), (509, 40536), (512, 40521), (518, 40506), (608, 40308), (648, 40275), (660, 40236), (694, 40191), (724, 40128), (730, 40122), (733, 40116), (745, 40095), (752, 40080), (768, 40047), (770, 40044), (794, 39999), (823, 39942), (839, 39888), (850, 39837), (866, 39774), (882, 39726), (888, 39705),

Gene: NorManre_63 Start: 40960, Stop: 42873, Start Num: 58

Candidate Starts for NorManre_63:

(20, 40834), (23, 40843), (24, 40855), (35, 40888), (Start: 57 @40957 has 13 MA's), (Start: 58 @40960 has 58 MA's), (Start: 69 @40972 has 45 MA's), (81, 41020), (120, 41122), (158, 41212), (176, 41239), (182, 41248), (236, 41320), (286, 41440), (311, 41503), (367, 41593), (385, 41620), (463, 41749), (470, 41773), (484, 41815), (502, 41863), (508, 41884), (514, 41905), (534, 41962), (542, 41980), (557, 42016), (574, 42058), (604, 42118), (659, 42214), (660, 42217), (764, 42394), (792, 42445), (826, 42535), (836, 42571), (838, 42577), (850, 42631), (861, 42670), (888, 42772), (893, 42787), (902, 42808), (929, 42865),

Gene: NosilaM_73 Start: 56110, Stop: 54188, Start Num: 91

Candidate Starts for NosilaM_73:

(Start: 38 @56275 has 35 MA's), (Start: 91 @56110 has 1 MA's), (93, 56107), (215, 55852), (274, 55744), (292, 55690), (323, 55627), (374, 55537), (376, 55534), (393, 55510), (413, 55474), (484, 55336), (492, 55318), (495, 55309), (500, 55294), (542, 55171), (568, 55087), (580, 55060), (593, 55036), (649, 54937), (667, 54883), (701, 54829), (718, 54787), (735, 54748), (771, 54679), (779, 54646), (796, 54610), (817, 54565), (820, 54553), (836, 54493), (851, 54430), (899, 54265),

Gene: Nova_52 Start: 40183, Stop: 42126, Start Num: 58

Candidate Starts for Nova_52:

(41, 40120), (Start: 58 @40183 has 58 MA's), (72, 40210), (Start: 95 @40282 has 1 MA's), (115, 40336), (138, 40396), (150, 40423), (180, 40474), (182, 40477), (210, 40516), (236, 40552), (274, 40639), (308, 40732), (316, 40747), (328, 40768), (399, 40870), (411, 40903), (424, 40927), (466, 40987), (495, 41074), (518, 41149), (557, 41239), (580, 41290), (582, 41293), (628, 41383), (649, 41401), (659, 41434), (697, 41500), (705, 41518), (735, 41581), (779, 41665), (826, 41782), (836, 41830), (851, 41893), (870, 41977),

Gene: NovaSharks_62 Start: 39405, Stop: 41321, Start Num: 57

Candidate Starts for NovaSharks_62:

(Start: 57 @39405 has 13 MA's), (Start: 58 @39408 has 58 MA's), (Start: 69 @39420 has 45 MA's), (81, 39468), (94, 39501), (158, 39660), (176, 39687), (182, 39696), (236, 39768), (286, 39888), (311, 39951), (367, 40041), (385, 40068), (463, 40197), (470, 40221), (484, 40263), (489, 40275), (495, 40290), (502, 40311), (508, 40332), (514, 40353), (534, 40410), (542, 40428), (557, 40464), (574, 40506), (604, 40566), (659, 40662), (660, 40665), (764, 40842), (792, 40893), (826, 40983), (836, 41019), (838, 41025), (850, 41079), (861, 41118), (888, 41220), (893, 41235), (902, 41256),

Gene: NovumRegina_72 Start: 56100, Stop: 54034, Start Num: 38

Candidate Starts for NovumRegina_72:

(9, 56304), (10, 56292), (12, 56274), (Start: 38 @56100 has 35 MA's), (Start: 82 @55962 has 2 MA's), (87, 55938), (182, 55734), (215, 55689), (274, 55581), (321, 55467), (323, 55464), (374, 55374), (376, 55371), (413, 55311), (484, 55173), (492, 55155), (500, 55131), (542, 55008), (580, 54903), (649, 54777), (667, 54723), (731, 54597), (735, 54588), (748, 54564), (779, 54492), (782, 54486), (796, 54456), (820, 54399), (836, 54339), (851, 54276), (870, 54195),

Gene: Nubia_29 Start: 22080, Stop: 23471, Start Num: 219

Candidate Starts for Nubia_29:

(Start: 219 @22080 has 74 MA's), (Start: 266 @22167 has 1 MA's), (Start: 289 @22239 has 1 MA's), (290, 22242), (320, 22308), (329, 22326), (334, 22332), (359, 22359), (404, 22416), (424, 22467), (452, 22506), (470, 22542), (475, 22560), (489, 22596), (499, 22617), (505, 22635), (522, 22668), (537, 22707), (560, 22749), (576, 22776), (590, 22800), (611, 22836), (624, 22842), (651, 22875), (655, 22890), (659, 22899), (698, 22944), (712, 22977), (714, 22980), (784, 23085), (791, 23097), (803, 23115), (836, 23205), (843, 23226), (844, 23229), (848, 23253), (849, 23262), (870, 23349), (887, 23400), (903, 23439), (915, 23463),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 253

Candidate Starts for Nucci_39:

(Start: 249 @30621 has 8 MA's), (Start: 253 @30618 has 24 MA's), (265, 30588), (Start: 266 @30582 has 1 MA's), (276, 30549), (Start: 310 @30474 has 1 MA's), (312, 30468), (389, 30357), (404, 30330), (424, 30279), (430, 30270), (457, 30243), (462, 30240), (475, 30198), (499, 30144), (557, 29988), (582, 29937), (584, 29931), (600, 29910), (605, 29904), (608, 29895), (625, 29883), (642, 29871), (674, 29793), (701, 29733), (703, 29727), (728, 29679), (750, 29637), (789, 29574), (795, 29562), (813, 29538), (816, 29535), (836, 29466), (839, 29457), (844, 29442), (845, 29436), (846, 29430), (848, 29418), (875, 29313), (882, 29295), (885, 29283), (902, 29238),

Gene: OMalley_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for OMalley_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470, 22210), (475, 22228), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (741, 22690), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: Oaker_60 Start: 46344, Stop: 48401, Start Num: 58

Candidate Starts for Oaker_60:

(Start: 58 @46344 has 58 MA's), (79, 46404), (80, 46407), (Start: 114 @46500 has 3 MA's), (119, 46512), (127, 46533), (186, 46656), (188, 46659), (195, 46668), (218, 46701), (226, 46722), (Start: 247 @46770 has 139 MA's), (Start: 266 @46812 has 1 MA's), (286, 46875), (292, 46896), (294, 46902), (321, 46956), (428, 47142), (434, 47154), (455, 47172), (463, 47187), (466, 47193), (580, 47511), (582, 47514), (604, 47559), (643, 47610), (649, 47622), (691, 47712), (697, 47724), (711, 47757), (723, 47781), (725, 47790), (782, 47880), (798, 47913), (835, 48024), (836, 48027), (837, 48030), (838, 48033), (847, 48069), (850, 48087), (865, 48153), (870, 48171), (933, 48348),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for Oats_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (498, 30339), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (625, 30075), (655, 30027), (701, 29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (866, 29577), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: OhDear_40 Start: 25909, Stop: 27816, Start Num: 69

Candidate Starts for OhDear_40:

(Start: 69 @25909 has 45 MA's), (85, 25972), (98, 25993), (116, 26047), (218, 26224), (Start: 252 @26269 has 1 MA's), (314, 26443), (323, 26452), (374, 26542), (406, 26599), (486, 26785), (534, 26920), (540, 26932), (556, 26965), (649, 27094), (705, 27211), (749, 27286), (836, 27520), (837, 27523), (850, 27583), (871, 27673), (882, 27703), (895, 27745), (923, 27796),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for OldNelly_42:

(125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (466, 30730), (499, 30640), (511, 30598), (584, 30427), (608, 30391), (625, 30379), (651, 30346), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: Olympi_35 Start: 23358, Stop: 24785, Start Num: 222

Candidate Starts for Olympi_35:

(Start: 222 @23358 has 17 MA's), (313, 23574), (377, 23676), (403, 23715), (430, 23778), (464, 23823), (470, 23844), (506, 23943), (587, 24111), (624, 24159), (646, 24180), (655, 24207), (685, 24234), (698, 24264), (701, 24270), (717, 24306), (772, 24384), (826, 24486), (827, 24489), (849, 24576), (853, 24588), (863, 24627), (870, 24663), (876, 24681), (898, 24744),

Gene: Onyinye_65 Start: 45953, Stop: 47881, Start Num: 58

Candidate Starts for Onyinye_65:

(Start: 58 @45953 has 58 MA's), (71, 45974), (78, 46004), (Start: 114 @46103 has 3 MA's), (138, 46166), (176, 46238), (182, 46247), (218, 46295), (316, 46511), (328, 46532), (342, 46553), (345, 46556), (355, 46568), (372, 46595), (436, 46718), (466, 46754), (489, 46826), (493, 46835), (504, 46868), (521, 46925), (527, 46937), (557, 47006), (561, 47015), (569, 47033), (580, 47057), (643, 47153), (649, 47165), (659, 47198), (686, 47240), (714, 47303), (767, 47408), (846, 47624), (850, 47648), (851, 47651), (862, 47693), (868, 47723), (875, 47747), (926, 47864),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 239

Candidate Starts for Orchid_57:

(Start: 239 @50422 has 5 MA's), (277, 50329), (280, 50320), (283, 50308), (288, 50293), (297, 50275), (330, 50218), (376, 50146), (378, 50143), (419, 50050), (441, 50017), (461, 49984), (463, 49981), (469, 49960), (499, 49891), (511, 49855), (549, 49768), (581, 49705), (583, 49702), (598, 49672), (652, 49600), (653, 49591), (724, 49468), (728, 49462), (813, 49330), (827, 49288), (840, 49243), (847, 49213), (927, 48961),

Gene: Orla_60 Start: 41041, Stop: 39566, Start Num: 202

Candidate Starts for Orla_60:

(Start: 202 @41041 has 10 MA's), (230, 40999), (257, 40951), (Start: 266 @40924 has 1 MA's), (290, 40849), (293, 40840), (299, 40834), (346, 40750), (358, 40732), (364, 40723), (368, 40717), (462, 40594), (479, 40540), (481, 40534), (484, 40528), (509, 40465), (512, 40450), (518, 40435), (608, 40237), (648, 40204), (660, 40165), (694, 40120), (724, 40057), (730, 40051), (733, 40045), (768, 39976), (770, 39973), (794, 39928), (823, 39871), (839, 39817), (850, 39766), (882, 39655), (888, 39634),

Gene: Ottawa_61 Start: 33948, Stop: 35849, Start Num: 75

Candidate Starts for Ottawa_61:

(46, 33855), (Start: 75 @33948 has 2 MA's), (102, 34035), (123, 34089), (142, 34140), (165, 34188), (182, 34212), (261, 34338), (264, 34347), (341, 34533), (365, 34575), (446, 34722), (458, 34743), (477, 34800), (487, 34824), (504, 34866), (513, 34902), (570, 35040), (644, 35142), (714, 35268), (728, 35292), (751, 35334), (860, 35619), (875, 35682), (885, 35712), (923, 35793), (927, 35808),

Gene: OtterstedtS21_60 Start: 40582, Stop: 42495, Start Num: 58

Candidate Starts for OtterstedtS21_60:

(Start: 57 @40579 has 13 MA's), (Start: 58 @40582 has 58 MA's), (Start: 69 @40594 has 45 MA's), (81, 40642), (94, 40675), (120, 40744), (158, 40834), (176, 40861), (182, 40870), (236, 40942), (274, 41029), (286, 41062), (311, 41125), (367, 41215), (463, 41371), (470, 41395), (484, 41437), (502, 41485), (508, 41506), (514, 41527), (534, 41584), (557, 41638), (574, 41680), (604, 41740), (659, 41836), (660, 41839), (764, 42016), (792, 42067), (826, 42157), (836, 42193), (838, 42199), (850, 42253), (861, 42292), (888, 42394), (893, 42409), (902, 42430),

Gene: Outis_73 Start: 56760, Stop: 54685, Start Num: 38

Candidate Starts for Outis_73:

(Start: 38 @56760 has 35 MA's), (76, 56640), (Start: 91 @56595 has 1 MA's), (93, 56592), (215, 56349), (260, 56292), (274, 56241), (292, 56187), (323, 56124), (374, 56034), (376, 56031), (393, 56007), (413, 55971), (492, 55815), (500, 55791), (542, 55668), (580, 55557), (593, 55533), (649,

55434), (667, 55380), (701, 55326), (718, 55284), (735, 55245), (771, 55176), (779, 55143), (796, 55107), (817, 55062), (820, 55050), (836, 54990), (851, 54927), (870, 54846), (899, 54762),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 69

Candidate Starts for OverHedge_40:

(Start: 69 @25901 has 45 MA's), (85, 25964), (98, 25985), (116, 26039), (218, 26216), (Start: 252 @26261 has 1 MA's), (314, 26435), (323, 26444), (374, 26534), (406, 26591), (486, 26777), (534, 26912), (540, 26924), (556, 26957), (649, 27086), (705, 27203), (749, 27278), (836, 27512), (837, 27515), (850, 27575), (871, 27665), (882, 27695), (895, 27737), (923, 27788),

Gene: Oxtob96_42 Start: 31119, Stop: 29731, Start Num: 247

Candidate Starts for Oxtob96_42:

(14, 31770), (97, 31416), (125, 31341), (Start: 247 @31119 has 139 MA's), (308, 30975), (Start: 310 @30969 has 1 MA's), (311, 30966), (389, 30852), (404, 30825), (430, 30765), (457, 30738), (462, 30735), (499, 30639), (511, 30597), (584, 30426), (600, 30405), (625, 30378), (655, 30330), (701, 30270), (789, 30111), (820, 30057), (845, 29973), (846, 29967), (848, 29955), (872, 29859), (890, 29805), (891, 29802), (900, 29778),

Gene: Oxyrfrius_29 Start: 22093, Stop: 23484, Start Num: 219

Candidate Starts for Oxyrfrius_29:

(Start: 219 @22093 has 74 MA's), (Start: 266 @22180 has 1 MA's), (Start: 289 @22252 has 1 MA's), (290, 22255), (320, 22321), (329, 22339), (334, 22345), (359, 22372), (404, 22429), (424, 22480), (452, 22519), (470, 22555), (475, 22573), (489, 22609), (499, 22630), (505, 22648), (522, 22681), (537, 22720), (560, 22762), (576, 22789), (590, 22813), (611, 22849), (624, 22855), (651, 22888), (655, 22903), (659, 22912), (698, 22957), (712, 22990), (714, 22993), (784, 23098), (791, 23110), (803, 23128), (836, 23218), (843, 23239), (844, 23242), (848, 23266), (849, 23275), (870, 23362), (887, 23413), (903, 23452), (915, 23476),

Gene: P1201_75 Start: 57035, Stop: 55065, Start Num: 67

Candidate Starts for P1201_75:

(Start: 67 @57035 has 8 MA's), (115, 56897), (126, 56873), (193, 56741), (268, 56618), (274, 56600), (275, 56597), (374, 56390), (466, 56249), (556, 55979), (565, 55955), (574, 55934), (597, 55886), (649, 55790), (659, 55757), (692, 55700), (695, 55694), (697, 55691), (782, 55502), (846, 55319), (851, 55292), (865, 55229), (870, 55211),

Gene: PBI1_50 Start: 39660, Stop: 41603, Start Num: 58

Candidate Starts for PBI1_50:

(Start: 58 @39660 has 58 MA's), (72, 39687), (Start: 95 @39759 has 1 MA's), (115, 39813), (138, 39873), (145, 39891), (150, 39900), (180, 39951), (210, 39993), (236, 40029), (274, 40116), (308, 40209), (316, 40224), (328, 40245), (399, 40347), (411, 40380), (424, 40404), (466, 40464), (495, 40551), (518, 40626), (557, 40716), (580, 40767), (582, 40770), (628, 40860), (649, 40878), (659, 40911), (691, 40965), (697, 40977), (705, 40995), (735, 41058), (779, 41142), (826, 41259), (836, 41307), (851, 41370), (870, 41454),

Gene: PHTowN_70 Start: 50156, Stop: 48270, Start Num: 56

Candidate Starts for PHTowN_70:

(39, 50216), (Start: 56 @50156 has 8 MA's), (Start: 69 @50141 has 45 MA's), (85, 50078), (Start: 91 @50069 has 1 MA's), (98, 50057), (134, 49964), (160, 49901), (176, 49883), (218, 49826), (236, 49802), (295, 49643), (314, 49604), (323, 49595), (387, 49487), (442, 49379), (484, 49274), (517, 49175), (540, 49115), (578, 49028), (580, 49025), (659, 48920), (663, 48911), (667, 48899), (720, 48800), (755, 48761), (792, 48683), (798, 48671), (811, 48644), (837, 48554), (842, 48539), (853, 48485), (865, 48428), (910, 48302),

Gene: PLOT_53 Start: 39756, Stop: 41699, Start Num: 58

Candidate Starts for PLOT_53:

(41, 39693), (Start: 58 @39756 has 58 MA's), (72, 39783), (Start: 95 @39855 has 1 MA's), (115, 39909), (138, 39969), (150, 39996), (180, 40047), (210, 40089), (236, 40125), (274, 40212), (308, 40305), (316, 40320), (328, 40341), (399, 40443), (411, 40476), (424, 40500), (466, 40560), (495, 40647), (518, 40722), (557, 40812), (580, 40863), (582, 40866), (628, 40956), (649, 40974), (659, 41007), (697, 41073), (705, 41091), (735, 41154), (779, 41238), (826, 41355), (836, 41403), (851, 41466), (870, 41550),

Gene: PSirce_40 Start: 31102, Stop: 29690, Start Num: 253

Candidate Starts for PSirce_40:

(Start: 249 @31105 has 8 MA's), (Start: 253 @31102 has 24 MA's), (265, 31072), (Start: 266 @31066 has 1 MA's), (276, 31033), (389, 30841), (404, 30814), (430, 30754), (457, 30727), (462, 30724), (475, 30682), (484, 30658), (499, 30628), (511, 30586), (584, 30415), (600, 30394), (608, 30379), (625, 30367), (642, 30355), (645, 30352), (651, 30334), (685, 30253), (701, 30217), (728, 30163), (750, 30121), (768, 30091), (784, 30067), (786, 30061), (813, 30022), (816, 30019), (836, 29950), (844, 29926), (845, 29920), (846, 29914), (848, 29902), (872, 29806), (875, 29797), (882, 29779), (885, 29767), (902, 29722),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 253

Candidate Starts for Pajaza_37:

(Start: 253 @29766 has 24 MA's), (305, 29637), (312, 29616), (389, 29505), (392, 29502), (425, 29418), (430, 29412), (445, 29400), (462, 29382), (469, 29361), (499, 29286), (509, 29253), (580, 29082), (582, 29079), (584, 29073), (585, 29070), (608, 29037), (655, 28977), (701, 28917), (703, 28911), (705, 28908), (706, 28905), (750, 28821), (825, 28689), (836, 28650), (844, 28626), (845, 28620), (848, 28602), (872, 28506), (882, 28479), (885, 28467), (896, 28434), (902, 28422),

Gene: Panchaali_92 Start: 77571, Stop: 79412, Start Num: 148

Candidate Starts for Panchaali_92:

(Start: 148 @77571 has 12 MA's), (274, 77829), (280, 77844), (354, 77949), (375, 77985), (396, 78015), (423, 78084), (427, 78093), (433, 78105), (453, 78138), (498, 78264), (567, 78477), (586, 78522), (610, 78582), (625, 78627), (638, 78684), (639, 78690), (651, 78723), (653, 78735), (659, 78747), (735, 78864), (737, 78867), (759, 78891), (776, 78933), (791, 78960), (808, 78993), (818, 79017), (832, 79077), (851, 79170), (857, 79194), (908, 79362), (910, 79365),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 247

Candidate Starts for Papafritta_40:

(97, 31121), (125, 31046), (Start: 247 @30824 has 139 MA's), (308, 30680), (Start: 310 @30674 has 1 MA's), (311, 30671), (389, 30557), (404, 30530), (430, 30470), (457, 30443), (462, 30440), (499, 30344), (511, 30302), (584, 30131), (600, 30110), (608, 30095), (655, 30035), (689, 30002), (701, 29975), (753, 29879), (789, 29816), (820, 29762), (845, 29678), (846, 29672), (848, 29660), (872, 29564), (890, 29510), (891, 29507), (900, 29483),

Gene: Papyrus_66 Start: 47571, Stop: 49331, Start Num: 200

Candidate Starts for Papyrus_66:

(Start: 200 @47571 has 10 MA's), (Start: 250 @47640 has 24 MA's), (283, 47736), (287, 47745), (322, 47826), (346, 47871), (463, 48072), (477, 48120), (500, 48180), (504, 48192), (526, 48258), (569, 48381), (580, 48405), (593, 48429), (649, 48633), (659, 48666), (665, 48681), (691, 48720), (692, 48723), (697, 48732), (735, 48801), (803, 48933), (836, 49056), (837, 49059), (845, 49086), (850, 49116), (852, 49122), (853, 49125), (857, 49143), (861, 49155), (902, 49290), (919, 49317), (920, 49320),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for ParleG_41:

(14, 31772), (97, 31418), (125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (580, 30437), (584, 30428), (600, 30407), (608, 30392), (625, 30380), (655, 30332), (701, 30272), (753, 30176), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: PartyCup_29 Start: 22162, Stop: 23556, Start Num: 219

Candidate Starts for PartyCup_29:

(Start: 219 @22162 has 74 MA's), (254, 22219), (Start: 289 @22324 has 1 MA's), (329, 22411), (401, 22495), (403, 22498), (404, 22501), (452, 22591), (470, 22627), (473, 22636), (475, 22645), (499, 22702), (505, 22720), (522, 22753), (529, 22765), (560, 22834), (576, 22861), (590, 22885), (611, 22921), (624, 22927), (651, 22960), (655, 22975), (659, 22984), (722, 23074), (768, 23143), (784, 23170), (793, 23188), (803, 23200), (836, 23290), (838, 23296), (841, 23305), (843, 23311), (849, 23347), (870, 23434), (889, 23491), (903, 23524), (915, 23548),

Gene: Parvuparticeps_24 Start: 17958, Stop: 16552, Start Num: 219

Candidate Starts for Parvuparticeps_24:

(Start: 219 @17958 has 74 MA's), (284, 17817), (Start: 289 @17802 has 1 MA's), (337, 17718), (376, 17655), (401, 17622), (430, 17556), (446, 17535), (452, 17526), (464, 17511), (473, 17481), (483, 17451), (506, 17397), (587, 17235), (651, 17154), (685, 17109), (698, 17079), (699, 17076), (717, 17037), (784, 16938), (793, 16920), (803, 16908), (814, 16890), (848, 16770), (849, 16761), (863, 16710), (864, 16701), (865, 16692), (870, 16674), (876, 16656), (898, 16593), (903, 16584), (915, 16560),

Gene: ParvusTarda_59 Start: 39954, Stop: 41870, Start Num: 57

Candidate Starts for ParvusTarda_59:

(20, 39831), (23, 39840), (24, 39852), (35, 39885), (Start: 57 @39954 has 13 MA's), (Start: 58 @39957 has 58 MA's), (Start: 69 @39969 has 45 MA's), (81, 40017), (94, 40050), (120, 40119), (158, 40209), (176, 40236), (182, 40245), (236, 40317), (274, 40404), (286, 40437), (311, 40500), (367, 40590), (463, 40746), (470, 40770), (484, 40812), (502, 40860), (508, 40881), (514, 40902), (534, 40959), (557, 41013), (574, 41055), (604, 41115), (659, 41211), (660, 41214), (764, 41391), (792, 41442), (826, 41532), (836, 41568), (838, 41574), (850, 41628), (861, 41667), (888, 41769), (893, 41784), (902, 41805),

Gene: Patbob_100 Start: 80820, Stop: 82658, Start Num: 148

Candidate Starts for Patbob_100:

(Start: 148 @80820 has 12 MA's), (245, 80979), (280, 81075), (329, 81135), (346, 81165), (400, 81255), (408, 81285), (433, 81336), (463, 81396), (602, 81792), (610, 81813), (625, 81858), (639, 81921), (651, 81954), (653, 81966), (659, 81978), (682, 82023), (697, 82062), (754, 82119), (759, 82125), (773, 82158), (808, 82227), (832, 82311), (857, 82428), (912, 82602), (930, 82644),

Gene: Patience_76 Start: 49716, Stop: 51749, Start Num: 62

Candidate Starts for Patience_76:

(Start: 62 @49716 has 3 MA's), (72, 49740), (90, 49803), (116, 49869), (135, 49920), (136, 49923), (195, 50031), (218, 50064), (Start: 247 @50103 has 139 MA's), (261, 50127), (280, 50190), (286, 50208), (287, 50211), (292, 50229), (294, 50235), (328, 50304), (343, 50331), (352, 50343), (379, 50376), (428, 50478), (489, 50601), (500, 50631), (534, 50736), (542, 50754), (578, 50844), (580, 50847), (612, 50949), (626, 50988), (643, 51015), (647, 51021), (649, 51027), (665, 51075), (676, 51093), (691, 51120), (697, 51132), (701, 51141), (835, 51429), (865, 51558), (875, 51591), (882, 51609), (900, 51663), (921, 51702),

Gene: Patio_74 Start: 56655, Stop: 54598, Start Num: 38

Candidate Starts for Patio_74:

(7, 56943), (11, 56835), (Start: 38 @56655 has 35 MA's), (195, 56280), (Start: 266 @56172 has 1 MA's), (275, 56139), (292, 56088), (321, 56028), (323, 56025), (364, 55953), (374, 55935), (413, 55872), (416, 55866), (431, 55839), (471, 55773), (484, 55734), (492, 55716), (500, 55692), (518, 55632), (542, 55569), (553, 55536), (580, 55473), (649, 55350), (683, 55281), (691, 55263), (735, 55158), (740, 55149), (771, 55089), (779, 55056), (782, 55050), (796, 55020), (820, 54963), (836, 54903), (845, 54873), (851, 54840), (899, 54675),

Gene: Patos_63 Start: 40959, Stop: 42872, Start Num: 58

Candidate Starts for Patos_63:

(20, 40833), (23, 40842), (24, 40854), (35, 40887), (Start: 57 @40956 has 13 MA's), (Start: 58 @40959 has 58 MA's), (Start: 69 @40971 has 45 MA's), (81, 41019), (120, 41121), (158, 41211), (176, 41238), (182, 41247), (236, 41319), (286, 41439), (311, 41502), (367, 41592), (385, 41619), (463, 41748), (470, 41772), (484, 41814), (502, 41862), (508, 41883), (514, 41904), (534, 41961), (542, 41979), (557, 42015), (574, 42057), (604, 42117), (659, 42213), (660, 42216), (764, 42393), (792, 42444), (826, 42534), (836, 42570), (838, 42576), (850, 42630), (861, 42669), (888, 42771), (893, 42786), (902, 42807), (929, 42864),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 239

Candidate Starts for PatrickStar_58:

(Start: 239 @50421 has 5 MA's), (277, 50328), (280, 50319), (283, 50307), (288, 50292), (297, 50274), (330, 50217), (376, 50145), (378, 50142), (419, 50049), (441, 50016), (461, 49983), (463, 49980), (469, 49959), (499, 49890), (511, 49854), (549, 49767), (581, 49704), (583, 49701), (598, 49671), (652, 49599), (653, 49590), (724, 49467), (728, 49461), (813, 49329), (827, 49287), (840, 49242), (847, 49212), (927, 48960),

Gene: PauloDiaboli_114 Start: 78533, Stop: 76683, Start Num: 151

Candidate Starts for PauloDiaboli_114:

(126, 78602), (127, 78596), (Start: 151 @78533 has 19 MA's), (176, 78488), (184, 78476), (259, 78350), (278, 78287), (329, 78212), (395, 78104), (403, 78086), (429, 78017), (448, 77990), (460, 77930), (516, 77765), (563, 77621), (600, 77534), (610, 77507), (621, 77471), (625, 77462), (638, 77405), (639, 77399), (653, 77354), (659, 77342), (673, 77321), (684, 77297), (697, 77261), (744, 77216), (792, 77132), (793, 77129), (796, 77123), (822, 77060), (845, 76958), (864, 76871), (875, 76829), (890, 76778),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 247

Candidate Starts for Peep_41:

(125, 31328), (213, 31166), (Start: 247 @31106 has 139 MA's), (308, 30962), (Start: 310 @30956 has 1 MA's), (311, 30953), (389, 30839), (404, 30812), (430, 30752), (457, 30725), (462, 30722), (499, 30626), (511, 30584), (584, 30413), (600, 30392), (608, 30377), (625, 30365), (655, 30317), (701, 30257), (753, 30161), (789, 30098), (820, 30044), (845, 29960), (846, 29954), (848, 29942), (872, 29846), (890, 29792), (891, 29789), (900, 29765),

Gene: Pemberton_73 Start: 52697, Stop: 50847, Start Num: 116

Candidate Starts for Pemberton_73:

(10, 53120), (12, 53102), (18, 53027), (Start: 38 @52928 has 35 MA's), (116, 52697), (274, 52409), (286, 52376), (292, 52355), (316, 52301), (321, 52295), (323, 52292), (374, 52202), (376, 52199), (413, 52139), (492, 51983), (542, 51836), (580, 51728), (593, 51704), (649, 51602), (667, 51548), (683, 51533), (718, 51452), (735, 51413), (767, 51350), (779, 51311), (782, 51305), (796, 51275), (836, 51158), (851, 51095), (865, 51032), (870, 51014), (899, 50930),

Gene: Penelope2018_53 Start: 39774, Stop: 41717, Start Num: 58

Candidate Starts for Penelope2018_53:

(32, 39705), (Start: 58 @39774 has 58 MA's), (72, 39801), (Start: 95 @39873 has 1 MA's), (115, 39927), (138, 39987), (145, 40005), (150, 40014), (180, 40065), (210, 40107), (236, 40143), (274, 40230), (308, 40323), (316, 40338), (328, 40359), (399, 40461), (411, 40494), (424, 40518), (466, 40578), (495, 40665), (518, 40740), (557, 40830), (580, 40881), (582, 40884), (628, 40974), (649, 40992), (659, 41025), (691, 41079), (697, 41091), (705, 41109), (735, 41172), (779, 41256), (826, 41373), (836, 41421), (851, 41484), (870, 41568),

Gene: Penta_37 Start: 29174, Stop: 27789, Start Num: 244

Candidate Starts for Penta_37:

(Start: 244 @29174 has 1 MA's), (346, 28961), (389, 28898), (401, 28877), (457, 28784), (462, 28781), (469, 28760), (475, 28739), (511, 28643), (557, 28529), (569, 28505), (584, 28472), (601, 28448), (608, 28436), (625, 28424), (642, 28412), (645, 28409), (651, 28391), (686, 28349), (701, 28316), (706, 28304), (711, 28292), (753, 28220), (768, 28190), (836, 28049), (839, 28040), (844, 28025), (845, 28019), (846, 28013), (872, 27905), (875, 27896), (885, 27866), (900, 27824),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 247

Candidate Starts for Peppino_40:

(Start: 166 @31364 has 1 MA's), (231, 31280), (Start: 247 @31250 has 139 MA's), (308, 31103), (Start: 310 @31097 has 1 MA's), (311, 31094), (389, 30980), (404, 30953), (430, 30893), (457, 30866), (462, 30863), (499, 30767), (511, 30725), (584, 30554), (600, 30533), (625, 30506), (701, 30398), (753, 30302), (820, 30185), (826, 30167), (845, 30101), (846, 30095), (872, 29987), (890, 29933), (891, 29930), (900, 29906), (918, 29876),

Gene: PermaG_34 Start: 23404, Stop: 24831, Start Num: 222

Candidate Starts for PermaG_34:

(190, 23362), (Start: 222 @23404 has 17 MA's), (Start: 289 @23560 has 1 MA's), (401, 23758), (403, 23761), (404, 23764), (409, 23782), (464, 23869), (470, 23890), (506, 23989), (532, 24055), (587, 24157), (589, 24160), (624, 24205), (646, 24226), (655, 24253), (685, 24280), (686, 24283), (691, 24295), (698, 24310), (701, 24316), (717, 24352), (741, 24388), (758, 24400), (772, 24430), (819, 24514), (826, 24532), (827, 24535), (849, 24622), (853, 24634), (863, 24673), (870, 24709), (872, 24715), (898, 24790),

Gene: PeteyPab_71 Start: 52509, Stop: 50584, Start Num: 67

Candidate Starts for PeteyPab_71:

(33, 52602), (37, 52596), (Start: 67 @52509 has 8 MA's), (129, 52338), (153, 52284), (274, 52080), (344, 51924), (374, 51873), (376, 51870), (407, 51828), (465, 51741), (466, 51738), (489, 51666), (493, 51657), (647, 51306), (649, 51300), (659, 51267), (820, 50928), (838, 50862), (842, 50850), (846, 50832), (851, 50805), (865, 50742), (875, 50709), (900, 50637),

Gene: Phalaborwa_53 Start: 39879, Stop: 41825, Start Num: 52

Candidate Starts for Phalaborwa_53:

(52, 39879), (92, 39975), (Start: 95 @39981 has 1 MA's), (115, 40035), (138, 40095), (150, 40122), (180, 40173), (182, 40176), (210, 40215), (236, 40251), (274, 40338), (308, 40431), (316, 40446), (328, 40467), (399, 40569), (411, 40602), (424, 40626), (466, 40686), (495, 40773), (521, 40857), (580, 40989), (582, 40992), (595, 41016), (628, 41082), (649, 41100), (659, 41133), (691, 41187), (697, 41199), (705, 41217), (735, 41280), (779, 41364), (826, 41481), (836, 41529), (851, 41592), (870, 41676),

Gene: Phanita_41 Start: 30883, Stop: 29468, Start Num: 249

Candidate Starts for Phanita_41:

(Start: 249 @30883 has 8 MA's), (Start: 253 @30880 has 24 MA's), (265, 30850), (Start: 266 @30844 has 1 MA's), (276, 30811), (389, 30619), (404, 30592), (430, 30532), (457, 30505), (462, 30502), (475, 30460), (499, 30406), (511, 30364), (557, 30250), (584, 30193), (600, 30172), (625, 30145), (642,

30133), (645, 30130), (651, 30112), (685, 30031), (701, 29995), (728, 29941), (750, 29899), (768, 29869), (784, 29845), (786, 29839), (816, 29797), (836, 29728), (844, 29704), (845, 29698), (846, 29692), (848, 29680), (882, 29557), (885, 29545), (902, 29500),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 69

Candidate Starts for Pharpay_40:

(Start: 69 @25956 has 45 MA's), (85, 26019), (98, 26040), (116, 26094), (218, 26271), (Start: 252 @26316 has 1 MA's), (314, 26490), (323, 26499), (374, 26589), (406, 26646), (486, 26832), (534, 26967), (540, 26979), (556, 27012), (649, 27141), (705, 27258), (749, 27333), (836, 27567), (837, 27570), (850, 27630), (871, 27720), (882, 27750), (895, 27792), (923, 27843),

Gene: Phendrix_173 Start: 92821, Stop: 90896, Start Num: 151

Candidate Starts for Phendrix_173:

(Start: 151 @92821 has 19 MA's), (Start: 171 @92779 has 2 MA's), (245, 92665), (272, 92590), (300, 92521), (333, 92452), (468, 92179), (474, 92161), (481, 92137), (498, 92098), (555, 91918), (592, 91834), (600, 91810), (619, 91750), (625, 91738), (634, 91711), (651, 91642), (652, 91639), (722, 91474), (747, 91423), (761, 91399), (788, 91333), (809, 91294), (815, 91282), (839, 91174), (847, 91141), (851, 91120), (860, 91087), (872, 91036), (878, 91018),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 249

Candidate Starts for Pherbot_39:

(232, 30581), (Start: 249 @30554 has 8 MA's), (Start: 253 @30551 has 24 MA's), (265, 30521), (308, 30413), (Start: 310 @30407 has 1 MA's), (311, 30404), (320, 30389), (430, 30203), (443, 30194), (462, 30173), (475, 30131), (499, 30077), (584, 29864), (600, 29843), (608, 29828), (625, 29816), (645, 29801), (657, 29765), (661, 29756), (685, 29741), (701, 29705), (753, 29606), (789, 29543), (807, 29516), (834, 29441), (836, 29435), (839, 29426), (844, 29411), (845, 29405), (846, 29399), (848, 29387), (882, 29264), (885, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Pherferi_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 247

Candidate Starts for Phiderman_41:

(14, 31762), (97, 31408), (125, 31333), (Start: 247 @31111 has 139 MA's), (308, 30967), (Start: 310 @30961 has 1 MA's), (311, 30958), (389, 30844), (404, 30817), (430, 30757), (457, 30730), (462, 30727), (499, 30631), (511, 30589), (580, 30427), (584, 30418), (600, 30397), (608, 30382), (625, 30370), (655, 30322), (701, 30262), (753, 30166), (789, 30103), (820, 30049), (845, 29965), (846, 29959), (848, 29947), (872, 29851), (890, 29797), (891, 29794), (900, 29770),

Gene: PhillyPhantom_40 Start: 31093, Stop: 29849, Start Num: 308

Candidate Starts for PhillyPhantom_40:

(Start: 166 @31354 has 1 MA's), (231, 31270), (Start: 247 @31240 has 139 MA's), (308, 31093), (Start: 310 @31087 has 1 MA's), (311, 31084), (389, 30970), (404, 30943), (430, 30883), (457, 30856), (462, 30853), (499, 30757), (511, 30715), (584, 30544), (600, 30523), (625, 30496), (701, 30388), (753, 30292), (820, 30175), (826, 30157), (845, 30091), (846, 30085), (848, 30073), (872, 29977), (890, 29923), (891, 29920), (900, 29896), (918, 29866),

Gene: Philon9_57 Start: 53944, Stop: 52235, Start Num: 117

Candidate Starts for Philon9_57:

(Start: 117 @53944 has 9 MA's), (Start: 121 @53932 has 2 MA's), (Start: 178 @53812 has 1 MA's), (209, 53779), (227, 53749), (230, 53743), (277, 53635), (288, 53599), (297, 53575), (301, 53566), (306, 53557), (329, 53509), (330, 53506), (333, 53500), (334, 53497), (412, 53374), (422, 53353), (461, 53293), (488, 53221), (499, 53200), (504, 53185), (505, 53182), (507, 53173), (581, 53014), (606, 52963), (623, 52951), (625, 52945), (648, 52924), (663, 52879), (689, 52834), (707, 52792), (736, 52735), (752, 52705), (754, 52702), (756, 52699), (789, 52645), (844, 52522), (847, 52504), (874, 52387), (875, 52384), (880, 52372), (931, 52252),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for Phireproof_41:

(125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (499, 30640), (511, 30598), (580, 30436), (584, 30427), (600, 30406), (608, 30391), (625, 30379), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: Phomeo_71 Start: 56408, Stop: 54342, Start Num: 38

Candidate Starts for Phomeo_71:

(2, 56906), (6, 56705), (9, 56612), (10, 56600), (12, 56582), (Start: 38 @56408 has 35 MA's), (Start: 82 @56270 has 2 MA's), (87, 56246), (182, 56042), (215, 55997), (274, 55889), (321, 55775), (323, 55772), (374, 55682), (376, 55679), (413, 55619), (484, 55481), (492, 55463), (500, 55439), (542, 55316), (580, 55211), (649, 55085), (667, 55031), (731, 54905), (735, 54896), (748, 54872), (779, 54800), (782, 54794), (796, 54764), (820, 54707), (836, 54647), (851, 54584), (870, 54503),

Gene: Phrampa_94 Start: 82318, Stop: 84156, Start Num: 148

Candidate Starts for Phrampa_94:

(Start: 148 @82318 has 12 MA's), (245, 82477), (280, 82573), (329, 82633), (346, 82663), (400, 82753), (408, 82783), (463, 82894), (577, 83233), (610, 83311), (625, 83356), (639, 83419), (651, 83452), (653, 83464), (659, 83476), (668, 83491), (670, 83494), (682, 83521), (697, 83560), (754, 83617), (759, 83623), (773, 83656), (808, 83725), (832, 83809), (857, 83926), (912, 84100), (930, 84142),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for PhredFlintston_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Phreeze_60 Start: 45650, Stop: 47707, Start Num: 58

Candidate Starts for Phreeze_60:

(Start: 58 @45650 has 58 MA's), (79, 45710), (80, 45713), (Start: 114 @45806 has 3 MA's), (119, 45818), (127, 45839), (186, 45962), (188, 45965), (195, 45974), (218, 46007), (226, 46028), (Start: 247 @46076 has 139 MA's), (286, 46181), (292, 46202), (294, 46208), (321, 46262), (428, 46448), (434, 46460), (455, 46478), (463, 46493), (466, 46499), (580, 46817), (582, 46820), (604, 46865), (643, 46916), (649, 46928), (691, 47018), (697, 47030), (711, 47063), (723, 47087), (725, 47096), (782, 47186), (798, 47219), (835, 47330), (836, 47333), (837, 47336), (838, 47339), (850, 47393), (865, 47459), (870, 47477), (933, 47654),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for Phriends_41:

(125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (466, 30730), (499, 30640), (511, 30598), (584, 30427), (608, 30391), (625, 30379), (651, 30346), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 69

Candidate Starts for PhunaPhoke_40:

(Start: 69 @25929 has 45 MA's), (85, 25992), (98, 26013), (116, 26067), (218, 26244), (Start: 252 @26289 has 1 MA's), (314, 26463), (323, 26472), (374, 26562), (406, 26619), (486, 26805), (534, 26940), (540, 26952), (556, 26985), (649, 27114), (705, 27231), (749, 27306), (836, 27540), (837, 27543), (850, 27603), (871, 27693), (882, 27723), (895, 27765), (923, 27816),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 273

Candidate Starts for PierreThree_58:

(94, 53046), (112, 52995), (129, 52944), (153, 52890), (169, 52860), (Start: 194 @52827 has 3 MA's), (Start: 203 @52818 has 1 MA's), (Start: 221 @52791 has 28 MA's), (Start: 273 @52668 has 28 MA's), (288, 52623), (306, 52581), (329, 52533), (330, 52530), (333, 52524), (334, 52521), (342, 52509), (346, 52503), (384, 52455), (387, 52452), (453, 52332), (465, 52314), (485, 52251), (499, 52227), (504, 52212), (542, 52119), (581, 52041), (609, 51981), (623, 51978), (627, 51969), (648, 51951), (662, 51909), (689, 51864), (697, 51846), (756, 51729), (763, 51714), (773, 51693), (826, 51612), (827, 51609), (844, 51552), (845, 51546), (847, 51534), (859, 51483), (863, 51468), (864, 51459), (874, 51420), (878, 51408), (919, 51312), (925, 51297),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 253

Candidate Starts for Pikmin_37:

(Start: 253 @29766 has 24 MA's), (305, 29637), (312, 29616), (389, 29505), (392, 29502), (425, 29418), (430, 29412), (445, 29400), (462, 29382), (469, 29361), (499, 29286), (509, 29253), (580, 29082), (582, 29079), (584, 29073), (585, 29070), (608, 29037), (655, 28977), (701, 28917), (703, 28911), (705, 28908), (706, 28905), (750, 28821), (825, 28689), (836, 28650), (844, 28626), (845, 28620), (848, 28602), (872, 28506), (882, 28479), (885, 28467), (896, 28434), (902, 28422),

Gene: PinkFriday_25 Start: 20614, Stop: 22011, Start Num: 219

Candidate Starts for PinkFriday_25:

(Start: 219 @20614 has 74 MA's), (254, 20674), (283, 20761), (Start: 289 @20779 has 1 MA's), (329, 20866), (334, 20872), (359, 20899), (401, 20950), (404, 20956), (430, 21016), (449, 21037), (452, 21046), (470, 21082), (475, 21100), (476, 21103), (489, 21136), (499, 21157), (505, 21175), (506, 21181), (522, 21208), (531, 21235), (560, 21289), (569, 21301), (576, 21316), (590, 21340), (602, 21355), (605, 21361), (624, 21382), (651, 21415), (655, 21430), (659, 21439), (701, 21490), (741, 21562), (784, 21625), (793, 21643), (827, 21715), (834, 21739), (836, 21745), (837, 21748), (843, 21766), (849, 21802), (870, 21889), (903, 21979), (915, 22003),

Gene: PitaDog_25 Start: 20567, Stop: 21961, Start Num: 219

Candidate Starts for PitaDog_25:

(Start: 219 @20567 has 74 MA's), (254, 20624), (Start: 289 @20729 has 1 MA's), (290, 20732), (329, 20816), (359, 20849), (401, 20900), (404, 20906), (449, 20987), (451, 20990), (452, 20996), (470, 21032), (475, 21050), (476, 21053), (489, 21086), (499, 21107), (560, 21239), (576, 21266), (602, 21305), (611, 21326), (624, 21332), (651, 21365), (655, 21380), (659, 21389), (698, 21434), (714, 21470), (741, 21512), (784, 21575), (793, 21593), (836, 21695), (837, 21698), (843, 21716), (844, 21719), (848, 21743), (849, 21752), (870, 21839), (903, 21929), (915, 21953),

Gene: Pleakley_82 Start: 56142, Stop: 54094, Start Num: 38

Candidate Starts for Pleakley_82:

(Start: 38 @56142 has 35 MA's), (84, 55989), (96, 55974), (127, 55893), (195, 55770), (215, 55740), (274, 55632), (286, 55599), (306, 55548), (323, 55515), (374, 55425), (397, 55392), (413, 55362), (465, 55287), (492, 55206), (508, 55155), (542, 55059), (553, 55026), (568, 54990), (580, 54963), (647, 54846), (649, 54840), (683, 54771), (691, 54753), (697, 54741), (771, 54579), (782, 54546), (796, 54516), (803, 54501), (820, 54459), (851, 54336), (870, 54255), (881, 54231), (899, 54171),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 247

Candidate Starts for Pocket_40:

(125, 31065), (Start: 247 @30843 has 139 MA's), (308, 30699), (Start: 310 @30693 has 1 MA's), (311, 30690), (389, 30576), (404, 30549), (430, 30489), (457, 30462), (462, 30459), (499, 30363), (511, 30321), (580, 30159), (584, 30150), (600, 30129), (625, 30102), (651, 30069), (655, 30054), (692, 29979), (701, 29961), (753, 29865), (789, 29802), (820, 29748), (845, 29664), (846, 29658), (848, 29646), (866, 29571), (872, 29550), (890, 29496), (891, 29493), (900, 29469),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 233

Candidate Starts for PokyPuppy_58:

(94, 53043), (112, 52992), (129, 52941), (Start: 151 @52893 has 19 MA's), (153, 52887), (169, 52857), (Start: 194 @52824 has 3 MA's), (Start: 203 @52815 has 1 MA's), (Start: 221 @52788 has 28 MA's), (Start: 233 @52764 has 1 MA's), (Start: 273 @52665 has 28 MA's), (288, 52620), (306, 52578), (329, 52530), (330, 52527), (333, 52521), (334, 52518), (346, 52500), (384, 52452), (453, 52329), (465, 52311), (499, 52224), (504, 52209), (542, 52116), (554, 52089), (581, 52038), (609, 51978), (623, 51975), (627, 51966), (648, 51948), (662, 51906), (689, 51861), (756, 51726), (763, 51711), (773, 51690), (819, 51633), (827, 51606), (844, 51549), (845, 51543), (847, 51531), (859, 51480), (864, 51456), (874, 51417), (878, 51405), (880, 51402), (919, 51309), (925, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 221

Candidate Starts for Poland_64:

(94, 54280), (112, 54229), (153, 54124), (169, 54094), (Start: 194 @54061 has 3 MA's), (Start: 203 @54052 has 1 MA's), (Start: 221 @54025 has 28 MA's), (288, 53857), (306, 53815), (312, 53797), (329, 53767), (334, 53755), (342, 53743), (346, 53737), (362, 53716), (465, 53548), (499, 53461), (504, 53446), (507, 53434), (521, 53404), (542, 53353), (581, 53275), (594, 53251), (603, 53233), (609, 53215), (623, 53212), (627, 53203), (648, 53185), (662, 53143), (689, 53098), (697, 53080), (756, 52963), (763, 52948), (773, 52927), (826, 52846), (827, 52843), (844, 52786), (845, 52780), (847, 52768), (864, 52693), (874, 52654), (878, 52642), (880, 52639), (919, 52546), (925, 52531),

Gene: Polyyuki_72 Start: 53158, Stop: 51122, Start Num: 40

Candidate Starts for Polyyuki_72:

(13, 53326), (Start: 40 @53158 has 6 MA's), (Start: 61 @53092 has 1 MA's), (76, 53050), (215, 52765), (260, 52708), (274, 52657), (280, 52642), (314, 52552), (323, 52540), (374, 52447), (418, 52375), (466, 52306), (489, 52234), (508, 52177), (580, 51997), (593, 51973), (620, 51910), (649, 51874), (691, 51787), (749, 51655), (769, 51616), (771, 51613), (782, 51568), (836, 51421), (851, 51358), (862, 51316), (870, 51277), (881, 51253),

Gene: Pons_58 Start: 40779, Stop: 39301, Start Num: 198

Candidate Starts for Pons_58:

(139, 40860), (170, 40806), (Start: 198 @40779 has 49 MA's), (Start: 241 @40716 has 2 MA's), (257, 40689), (Start: 266 @40662 has 1 MA's), (283, 40608), (290, 40587), (291, 40584), (306, 40557), (Start: 310 @40545 has 1 MA's), (368, 40452), (462, 40329), (479, 40275), (481, 40269), (484, 40263), (512, 40185), (518, 40170), (556, 40080), (559, 40071), (572, 40044), (605, 39981), (608, 39972), (625, 39960), (648, 39939), (652, 39924), (653, 39915), (663, 39894), (694, 39855), (698, 39846), (705, 39831), (768, 39711), (770, 39708), (793, 39666), (805, 39648), (839, 39552), (850, 39501), (858, 39471), (866, 39438), (884, 39381), (889, 39366),

Gene: PorkBelly_54 Start: 43266, Stop: 41917, Start Num: 247

Candidate Starts for PorkBelly_54:

(217, 43317), (Start: 247 @43266 has 139 MA's), (265, 43227), (277, 43188), (279, 43182), (Start: 289 @43152 has 1 MA's), (304, 43134), (311, 43116), (320, 43101), (353, 43053), (360, 43041), (401, 42984), (403, 42981), (404, 42978), (515, 42774), (538, 42702), (549, 42678), (571, 42627), (584, 42603), (595, 42585), (605, 42564), (611, 42549), (662, 42480), (683, 42465), (711, 42402), (783, 42300), (785, 42294), (806, 42264), (828, 42210), (834, 42186), (846, 42144), (875, 42018), (876, 42015), (888, 41979),

Gene: PotPie_56 Start: 41318, Stop: 39840, Start Num: 198

Candidate Starts for PotPie_56:

(139, 41396), (167, 41345), (170, 41342), (Start: 198 @41318 has 49 MA's), (Start: 241 @41255 has 2 MA's), (255, 41234), (257, 41228), (Start: 266 @41201 has 1 MA's), (283, 41147), (299, 41111), (306, 41096), (362, 41000), (368, 40991), (389, 40970), (417, 40904), (462, 40868), (479, 40814), (481, 40808), (484, 40802), (512, 40724), (518, 40709), (559, 40610), (597, 40535), (608, 40511), (625, 40499), (648, 40478), (652, 40463), (653, 40454), (663, 40433), (694, 40394), (698, 40385), (705, 40370), (733, 40319), (768, 40250), (770, 40247), (793, 40205), (805, 40187), (839, 40091), (850, 40040), (858, 40010), (866, 39977), (884, 39920), (889, 39905),

Gene: PotatoChip_72 Start: 52511, Stop: 50586, Start Num: 67

Candidate Starts for PotatoChip_72:

(33, 52604), (37, 52598), (Start: 67 @52511 has 8 MA's), (129, 52340), (153, 52286), (274, 52082), (344, 51926), (374, 51875), (376, 51872), (407, 51830), (465, 51743), (466, 51740), (489, 51668), (493, 51659), (647, 51308), (649, 51302), (659, 51269), (820, 50930), (838, 50864), (842, 50852), (846, 50834), (851, 50807), (865, 50744), (875, 50711), (900, 50639),

Gene: Potatoes_29 Start: 22153, Stop: 23553, Start Num: 219

Candidate Starts for Potatoes_29:

(Start: 219 @22153 has 74 MA's), (254, 22216), (Start: 289 @22321 has 1 MA's), (290, 22324), (329, 22408), (359, 22441), (401, 22492), (404, 22498), (449, 22579), (451, 22582), (452, 22588), (470, 22624), (475, 22642), (476, 22645), (499, 22699), (522, 22750), (560, 22831), (576, 22858), (597, 22888), (602, 22897), (624, 22924), (651, 22957), (655, 22972), (698, 23026), (707, 23047), (712, 23059), (722, 23071), (838, 23293), (841, 23302), (843, 23308), (849, 23344), (864, 23404), (870, 23431), (903, 23521),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 69

Candidate Starts for Potty_40:

(Start: 69 @25934 has 45 MA's), (85, 25997), (98, 26018), (116, 26072), (218, 26249), (Start: 252 @26294 has 1 MA's), (314, 26468), (323, 26477), (374, 26567), (406, 26624), (486, 26810), (534, 26945), (540, 26957), (556, 26990), (649, 27119), (705, 27236), (749, 27311), (836, 27545), (837, 27548), (850, 27608), (871, 27698), (882, 27728), (895, 27770), (923, 27821),

Gene: Poultress_39 Start: 26280, Stop: 28187, Start Num: 69

Candidate Starts for Poultress_39:

(Start: 69 @26280 has 45 MA's), (85, 26343), (98, 26364), (116, 26418), (218, 26595), (Start: 252 @26640 has 1 MA's), (314, 26814), (323, 26823), (374, 26913), (406, 26970), (486, 27156), (534, 27291), (540, 27303), (556, 27336), (649, 27465), (705, 27582), (837, 27894), (850, 27954), (871, 28044), (882, 28074), (895, 28116), (923, 28167),

Gene: Prager_53 Start: 39749, Stop: 41692, Start Num: 58

Candidate Starts for Prager_53:

(Start: 58 @39749 has 58 MA's), (72, 39776), (Start: 95 @39848 has 1 MA's), (115, 39902), (138, 39962), (145, 39980), (150, 39989), (180, 40040), (210, 40082), (236, 40118), (274, 40205), (308,

40298), (316, 40313), (328, 40334), (399, 40436), (411, 40469), (424, 40493), (466, 40553), (495, 40640), (518, 40715), (557, 40805), (580, 40856), (582, 40859), (628, 40949), (649, 40967), (659, 41000), (691, 41054), (697, 41066), (705, 41084), (735, 41147), (779, 41231), (826, 41348), (836, 41396), (851, 41459), (870, 41543),

Gene: Preamble_25 Start: 20577, Stop: 21971, Start Num: 219

Candidate Starts for Preamble_25:

(Start: 219 @20577 has 74 MA's), (254, 20634), (Start: 289 @20739 has 1 MA's), (290, 20742), (329, 20826), (359, 20859), (403, 20913), (404, 20916), (452, 21006), (470, 21042), (476, 21063), (489, 21096), (499, 21117), (522, 21168), (560, 21249), (576, 21276), (602, 21315), (624, 21342), (651, 21375), (655, 21390), (659, 21399), (698, 21444), (714, 21480), (770, 21561), (784, 21585), (793, 21603), (803, 21615), (827, 21675), (834, 21699), (836, 21705), (837, 21708), (843, 21726), (844, 21729), (848, 21753), (849, 21762), (870, 21849), (887, 21900), (903, 21939),

Gene: Predator_60 Start: 44295, Stop: 46307, Start Num: 58

Candidate Starts for Predator_60:

(Start: 58 @44295 has 58 MA's), (65, 44310), (77, 44349), (84, 44379), (88, 44388), (97, 44403), (116, 44457), (119, 44463), (160, 44568), (195, 44619), (210, 44640), (218, 44652), (Start: 247 @44721 has 139 MA's), (260, 44742), (278, 44802), (286, 44826), (292, 44847), (294, 44853), (428, 45093), (434, 45105), (463, 45138), (466, 45144), (500, 45246), (578, 45459), (580, 45462), (604, 45510), (643, 45561), (647, 45567), (649, 45573), (691, 45663), (697, 45675), (757, 45798), (782, 45831), (835, 45975), (839, 45987), (847, 46020), (865, 46104), (870, 46122), (871, 46125), (887, 46173), (910, 46230),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 249

Candidate Starts for PrincePhergus_39:

(232, 30600), (Start: 249 @30573 has 8 MA's), (Start: 253 @30570 has 24 MA's), (265, 30540), (308, 30432), (Start: 310 @30426 has 1 MA's), (311, 30423), (320, 30408), (424, 30231), (430, 30222), (443, 30213), (462, 30192), (475, 30150), (499, 30096), (584, 29883), (600, 29862), (608, 29847), (625, 29835), (645, 29820), (657, 29784), (661, 29775), (685, 29760), (701, 29724), (753, 29625), (789, 29562), (807, 29535), (834, 29460), (836, 29454), (839, 29445), (844, 29430), (845, 29424), (846, 29418), (848, 29406), (882, 29283), (885, 29271),

Gene: PsychoKiller_52 Start: 38727, Stop: 37249, Start Num: 198

Candidate Starts for PsychoKiller_52:

(Start: 198 @38727 has 49 MA's), (255, 38640), (257, 38634), (283, 38553), (290, 38532), (362, 38409), (364, 38406), (479, 38223), (481, 38217), (484, 38211), (512, 38133), (559, 38019), (572, 37992), (584, 37968), (625, 37908), (653, 37863), (663, 37842), (694, 37803), (702, 37785), (766, 37668), (793, 37620), (794, 37617), (805, 37602), (839, 37506), (845, 37485), (850, 37455),

Gene: Puissant_59 Start: 45753, Stop: 47810, Start Num: 58

Candidate Starts for Puissant_59:

(Start: 58 @45753 has 58 MA's), (77, 45807), (80, 45816), (Start: 114 @45909 has 3 MA's), (116, 45915), (127, 45942), (188, 46068), (195, 46077), (218, 46110), (226, 46131), (Start: 247 @46179 has 139 MA's), (260, 46200), (286, 46284), (287, 46287), (292, 46305), (294, 46311), (321, 46365), (428, 46551), (434, 46563), (455, 46581), (463, 46596), (466, 46602), (580, 46920), (582, 46923), (604, 46968), (643, 47019), (649, 47031), (691, 47121), (697, 47133), (711, 47166), (723, 47190), (725, 47199), (782, 47289), (798, 47322), (835, 47433), (836, 47436), (837, 47439), (838, 47442), (850, 47496), (853, 47505), (870, 47580), (881, 47604), (887, 47631), (933, 47757),

Gene: Pumancara_25 Start: 20596, Stop: 21993, Start Num: 219

Candidate Starts for Pumancara_25:

(Start: 219 @20596 has 74 MA's), (254, 20656), (283, 20743), (Start: 289 @20761 has 1 MA's), (329, 20848), (334, 20854), (359, 20881), (401, 20932), (404, 20938), (430, 20998), (449, 21019), (452, 21028), (470, 21064), (475, 21082), (476, 21085), (489, 21118), (499, 21139), (506, 21163), (522, 21190), (531, 21217), (560, 21271), (569, 21283), (576, 21298), (590, 21322), (602, 21337), (624, 21364), (651, 21397), (655, 21412), (659, 21421), (701, 21472), (741, 21544), (770, 21583), (784, 21607), (793, 21625), (827, 21697), (834, 21721), (836, 21727), (837, 21730), (843, 21748), (849, 21784), (870, 21871), (883, 21910), (903, 21961), (915, 21985), (917, 21988),

Gene: Pumpernickel_111 Start: 80095, Stop: 78248, Start Num: 151

Candidate Starts for Pumpernickel_111:

(Start: 151 @80095 has 19 MA's), (278, 79855), (279, 79852), (286, 79831), (329, 79780), (395, 79672), (404, 79651), (465, 79489), (535, 79276), (555, 79210), (563, 79189), (567, 79180), (594, 79123), (600, 79102), (610, 79075), (621, 79039), (625, 79030), (629, 79018), (638, 78973), (639, 78967), (651, 78934), (698, 78823), (699, 78820), (739, 78778), (772, 78727), (822, 78607), (829, 78580), (841, 78520), (873, 78382), (875, 78376), (889, 78328), (916, 78268),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for PuppyEggo_41:

(14, 31772), (97, 31418), (125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (584, 30428), (600, 30407), (625, 30380), (655, 30332), (701, 30272), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: Pywacket_58 Start: 41409, Stop: 43325, Start Num: 57

Candidate Starts for Pywacket_58:

(Start: 57 @41409 has 13 MA's), (Start: 58 @41412 has 58 MA's), (Start: 69 @41424 has 45 MA's), (81, 41472), (94, 41505), (120, 41574), (158, 41664), (176, 41691), (182, 41700), (236, 41772), (274, 41859), (286, 41892), (311, 41955), (367, 42045), (463, 42201), (470, 42225), (484, 42267), (502, 42315), (508, 42336), (514, 42357), (534, 42414), (557, 42468), (574, 42510), (604, 42570), (659, 42666), (660, 42669), (764, 42846), (792, 42897), (826, 42987), (836, 43023), (838, 43029), (850, 43083), (861, 43122), (888, 43224), (893, 43239), (902, 43260),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 250

Candidate Starts for QuadZero_39:

(215, 29158), (Start: 250 @29101 has 24 MA's), (263, 29071), (265, 29065), (Start: 310 @28951 has 1 MA's), (311, 28948), (312, 28945), (457, 28711), (462, 28708), (557, 28453), (582, 28402), (584, 28396), (625, 28348), (651, 28315), (655, 28300), (701, 28201), (728, 28147), (732, 28141), (746, 28114), (789, 28042), (826, 27970), (836, 27934), (839, 27925), (844, 27910), (845, 27904), (848, 27886), (858, 27844), (875, 27781), (900, 27709),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 253

Candidate Starts for Quartz_40:

(Start: 249 @30751 has 8 MA's), (Start: 253 @30748 has 24 MA's), (265, 30718), (Start: 266 @30712 has 1 MA's), (276, 30679), (Start: 310 @30604 has 1 MA's), (312, 30598), (389, 30487), (404, 30460), (424, 30409), (430, 30400), (457, 30373), (462, 30370), (475, 30328), (499, 30274), (557, 30118), (582, 30067), (584, 30061), (600, 30040), (605, 30034), (608, 30025), (625, 30013), (642, 30001), (674, 29923), (701, 29863), (703, 29857), (728, 29809), (750, 29767), (789, 29704), (795, 29692), (813, 29668), (816, 29665), (836, 29596), (839, 29587), (844, 29572), (845, 29566), (846, 29560), (848, 29548), (875, 29443), (882, 29425), (885, 29413), (902, 29368),

Gene: Quasar_53 Start: 39431, Stop: 37953, Start Num: 198

Candidate Starts for Quasar_53:

(Start: 198 @39431 has 49 MA's), (255, 39344), (257, 39338), (290, 39236), (362, 39113), (364, 39110), (479, 38927), (481, 38921), (484, 38915), (512, 38837), (559, 38723), (572, 38696), (584, 38672), (625, 38612), (653, 38567), (663, 38546), (694, 38507), (702, 38489), (766, 38372), (793, 38324), (794, 38321), (805, 38306), (839, 38210), (845, 38189), (850, 38159),

Gene: RADical_54 Start: 38721, Stop: 37243, Start Num: 198

Candidate Starts for RADical_54:

(Start: 198 @38721 has 49 MA's), (255, 38634), (257, 38628), (283, 38547), (290, 38526), (364, 38400), (479, 38217), (481, 38211), (484, 38205), (512, 38127), (559, 38013), (572, 37986), (584, 37962), (625, 37902), (653, 37857), (663, 37836), (694, 37797), (702, 37779), (766, 37662), (793, 37614), (794, 37611), (805, 37596), (839, 37500), (845, 37479), (850, 37449),

Gene: RAP15_29 Start: 22157, Stop: 23557, Start Num: 219

Candidate Starts for RAP15_29:

(Start: 219 @22157 has 74 MA's), (254, 22220), (Start: 289 @22325 has 1 MA's), (290, 22328), (329, 22412), (359, 22445), (401, 22496), (404, 22502), (449, 22583), (451, 22586), (452, 22592), (470, 22628), (475, 22646), (476, 22649), (499, 22703), (522, 22754), (560, 22835), (576, 22862), (597, 22892), (602, 22901), (624, 22928), (651, 22961), (655, 22976), (698, 23030), (707, 23051), (712, 23063), (722, 23075), (838, 23297), (841, 23306), (843, 23312), (849, 23348), (864, 23408), (870, 23435), (903, 23525),

Gene: RSchmailzl_54 Start: 38877, Stop: 37399, Start Num: 198

Candidate Starts for RSchmailzl_54:

(Start: 198 @38877 has 49 MA's), (255, 38790), (257, 38784), (290, 38682), (364, 38556), (479, 38373), (481, 38367), (484, 38361), (512, 38283), (559, 38169), (572, 38142), (584, 38118), (625, 38058), (653, 38013), (663, 37992), (694, 37953), (702, 37935), (766, 37818), (793, 37770), (794, 37767), (805, 37752), (839, 37656), (845, 37635), (850, 37605), (913, 37416),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 247

Candidate Starts for Raccoon_40:

(165, 31325), (Start: 166 @31322 has 1 MA's), (168, 31319), (Start: 247 @31223 has 139 MA's), (308, 31076), (Start: 310 @31070 has 1 MA's), (311, 31067), (389, 30953), (404, 30926), (430, 30866), (457, 30839), (462, 30836), (499, 30740), (511, 30698), (584, 30527), (600, 30506), (625, 30479), (701, 30371), (753, 30275), (820, 30158), (826, 30140), (845, 30074), (846, 30068), (848, 30056), (872, 29960), (890, 29906), (891, 29903), (900, 29879), (918, 29849),

Gene: Racecar_102 Start: 80738, Stop: 82576, Start Num: 148

Candidate Starts for Racecar_102:

(Start: 148 @80738 has 12 MA's), (197, 80819), (245, 80897), (280, 80993), (329, 81053), (346, 81083), (408, 81203), (433, 81254), (463, 81314), (577, 81653), (602, 81710), (610, 81731), (625, 81776), (638, 81833), (639, 81839), (651, 81872), (653, 81884), (659, 81896), (682, 81941), (697, 81980), (754, 82037), (759, 82043), (773, 82076), (808, 82145), (832, 82229), (857, 82346), (912, 82520), (930, 82562),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 69

Candidate Starts for Rachella_40:

(Start: 69 @25937 has 45 MA's), (85, 26000), (98, 26021), (116, 26075), (218, 26252), (Start: 252 @26297 has 1 MA's), (314, 26471), (323, 26480), (374, 26570), (406, 26627), (486, 26813), (534, 26948), (540, 26960), (556, 26993), (649, 27122), (705, 27239), (749, 27314), (836, 27548), (837, 27551), (850, 27611), (871, 27701), (882, 27731), (895, 27773), (923, 27824),

Gene: Ranch_60 Start: 39414, Stop: 41327, Start Num: 58

Candidate Starts for Ranch_60:

(Start: 50 @39399 has 1 MA's), (Start: 57 @39411 has 13 MA's), (Start: 58 @39414 has 58 MA's), (Start: 69 @39426 has 45 MA's), (81, 39474), (94, 39507), (120, 39576), (158, 39666), (176, 39693), (182, 39702), (236, 39774), (286, 39894), (311, 39957), (367, 40047), (385, 40074), (463, 40203), (470, 40227), (484, 40269), (502, 40317), (504, 40323), (508, 40338), (514, 40359), (534, 40416), (557, 40470), (574, 40512), (604, 40572), (659, 40668), (660, 40671), (764, 40848), (792, 40899), (826, 40989), (836, 41025), (838, 41031), (850, 41085), (861, 41124), (888, 41226), (893, 41241), (902, 41262),

Gene: RanchParmCat_57 Start: 39886, Stop: 38411, Start Num: 202

Candidate Starts for RanchParmCat_57:

(Start: 202 @39886 has 10 MA's), (230, 39844), (257, 39796), (Start: 266 @39769 has 1 MA's), (274, 39739), (283, 39715), (290, 39694), (293, 39685), (299, 39679), (Start: 310 @39652 has 1 MA's), (346, 39595), (353, 39586), (364, 39568), (368, 39562), (462, 39439), (479, 39385), (481, 39379), (484, 39373), (509, 39310), (512, 39295), (518, 39280), (605, 39091), (608, 39082), (648, 39049), (660, 39010), (664, 39001), (694, 38965), (702, 38947), (705, 38941), (730, 38896), (733, 38890), (768, 38821), (794, 38773), (805, 38758), (823, 38716), (839, 38662), (847, 38629), (850, 38611), (866, 38548), (882, 38500), (885, 38488), (888, 38479), (913, 38422),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Rapheph_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (580, 30430), (584, 30421), (600, 30400), (608, 30385), (625, 30373), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for Raptor_41:

(125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (584, 30428), (600, 30407), (608, 30392), (625, 30380), (655, 30332), (701, 30272), (753, 30176), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (866, 29882), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: Rasovi_33 Start: 23465, Stop: 24892, Start Num: 222

Candidate Starts for Rasovi_33:

(189, 23426), (209, 23447), (Start: 222 @23465 has 17 MA's), (403, 23822), (430, 23885), (464, 23930), (470, 23951), (587, 24218), (624, 24266), (646, 24287), (655, 24314), (685, 24341), (686, 24344), (698, 24371), (701, 24377), (717, 24413), (772, 24491), (784, 24512), (793, 24530), (803, 24542), (836, 24626), (849, 24683), (853, 24695), (863, 24734), (870, 24770), (872, 24776),

Gene: RazorC_60 Start: 39561, Stop: 41474, Start Num: 58

Candidate Starts for RazorC_60:

(Start: 57 @39558 has 13 MA's), (Start: 58 @39561 has 58 MA's), (Start: 69 @39573 has 45 MA's), (81, 39621), (94, 39654), (158, 39813), (176, 39840), (182, 39849), (236, 39921), (286, 40041), (311, 40104), (367, 40194), (385, 40221), (463, 40350), (470, 40374), (484, 40416), (489, 40428), (495, 40443), (502, 40464), (508, 40485), (514, 40506), (534, 40563), (542, 40581), (557, 40617), (574, 40659), (604, 40719), (659, 40815), (660, 40818), (764, 40995), (792, 41046), (826, 41136), (836, 41172), (838, 41178), (850, 41232), (861, 41271), (888, 41373), (893, 41388), (902, 41409),

Gene: RcigaStruga_29 Start: 22127, Stop: 23518, Start Num: 219

Candidate Starts for RcigaStruga_29:

(Start: 219 @22127 has 74 MA's), (Start: 266 @22214 has 1 MA's), (Start: 289 @22286 has 1 MA's), (290, 22289), (320, 22355), (329, 22373), (334, 22379), (359, 22406), (404, 22463), (449, 22544), (452, 22553), (470, 22589), (475, 22607), (489, 22643), (499, 22664), (505, 22682), (522, 22715), (537, 22754), (560, 22796), (576, 22823), (590, 22847), (611, 22883), (624, 22889), (651, 22922), (655, 22937), (659, 22946), (698, 22991), (712, 23024), (714, 23027), (770, 23108), (791, 23144), (793, 23150), (803, 23162), (836, 23252), (843, 23273), (844, 23276), (848, 23300), (849, 23309), (870, 23396), (887, 23447), (903, 23486), (915, 23510),

Gene: RedBaron_58 Start: 39379, Stop: 37904, Start Num: 202

Candidate Starts for RedBaron_58:

(Start: 194 @39388 has 3 MA's), (Start: 202 @39379 has 10 MA's), (Start: 241 @39316 has 2 MA's), (255, 39295), (257, 39289), (283, 39208), (290, 39187), (362, 39064), (364, 39061), (466, 38926), (479, 38878), (481, 38872), (484, 38866), (512, 38788), (559, 38674), (572, 38647), (584, 38623), (625, 38563), (653, 38518), (663, 38497), (694, 38458), (702, 38440), (766, 38323), (793, 38275), (794, 38272), (805, 38257), (839, 38161), (845, 38140), (850, 38110),

Gene: RedRaider_79 Start: 58956, Stop: 56899, Start Num: 38

Candidate Starts for RedRaider_79:

(1, 59529), (7, 59244), (Start: 38 @58956 has 35 MA's), (195, 58581), (218, 58548), (275, 58440), (292, 58389), (321, 58329), (323, 58326), (364, 58254), (374, 58236), (413, 58173), (416, 58167), (471, 58074), (492, 58017), (500, 57993), (542, 57870), (553, 57837), (580, 57774), (649, 57651), (683, 57582), (691, 57564), (735, 57459), (740, 57450), (771, 57390), (782, 57351), (796, 57321), (820, 57264), (836, 57204), (845, 57174), (851, 57141), (868, 57069), (899, 56976),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 247

Candidate Starts for Redfield_40:

(165, 31357), (Start: 166 @31354 has 1 MA's), (168, 31351), (Start: 247 @31255 has 139 MA's), (308, 31108), (Start: 310 @31102 has 1 MA's), (311, 31099), (389, 30985), (404, 30958), (430, 30898), (457, 30871), (462, 30868), (499, 30772), (511, 30730), (584, 30559), (600, 30538), (625, 30511), (701, 30403), (753, 30307), (820, 30190), (826, 30172), (845, 30106), (846, 30100), (848, 30088), (872, 29992), (890, 29938), (891, 29935), (900, 29911), (918, 29881),

Gene: ReginaGlobina_100 Start: 80422, Stop: 82278, Start Num: 148

Candidate Starts for ReginaGlobina_100:

(Start: 148 @80422 has 12 MA's), (280, 80695), (354, 80800), (415, 80923), (423, 80935), (427, 80944), (470, 81040), (498, 81115), (516, 81175), (567, 81328), (586, 81373), (610, 81433), (625, 81478), (638, 81535), (639, 81541), (651, 81574), (653, 81586), (659, 81598), (735, 81715), (737, 81718), (773, 81775), (791, 81811), (796, 81823), (808, 81844), (832, 81928), (851, 82021), (857, 82045), (908, 82213), (910, 82216),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 221

Candidate Starts for RemRem_60:

(94, 51721), (112, 51670), (129, 51619), (153, 51565), (169, 51535), (Start: 194 @51502 has 3 MA's), (Start: 203 @51493 has 1 MA's), (Start: 221 @51466 has 28 MA's), (288, 51298), (306, 51256), (329, 51208), (334, 51196), (342, 51184), (346, 51178), (362, 51157), (384, 51130), (465, 50989), (499, 50902), (504, 50887), (507, 50875), (521, 50845), (542, 50794), (554, 50767), (581, 50716), (603, 50674), (609, 50656), (623, 50653), (648, 50626), (662, 50584), (689, 50539), (756, 50404), (763, 50389), (773, 50368), (819, 50311), (826, 50287), (827, 50284), (844, 50227), (845, 50221), (846, 50215), (847, 50209), (859, 50158), (864, 50134), (874, 50095), (878, 50083), (880, 50080), (919, 49987), (925, 49972), (931, 49951),

Gene: RenegadeRaider_42 Start: 30486, Stop: 29236, Start Num: 308

Candidate Starts for RenegadeRaider_42:

(149, 30789), (172, 30744), (Start: 196 @30714 has 1 MA's), (232, 30660), (Start: 241 @30642 has 2 MA's), (Start: 249 @30630 has 8 MA's), (Start: 253 @30624 has 24 MA's), (265, 30594), (308, 30486), (Start: 310 @30480 has 1 MA's), (311, 30477), (320, 30462), (430, 30276), (443, 30267), (462, 30246), (475, 30204), (499, 30150), (584, 29937), (600, 29916), (608, 29901), (625, 29889), (645, 29874), (657, 29838), (661, 29829), (685, 29814), (701, 29778), (753, 29679), (789, 29616), (807, 29589), (834, 29514), (836, 29508), (839, 29499), (844, 29484), (845, 29478), (846, 29472), (882, 29337), (885, 29325), (919, 29250),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 247

Candidate Starts for Renzie_41:

(125, 31331), (Start: 247 @31109 has 139 MA's), (308, 30965), (Start: 310 @30959 has 1 MA's), (311, 30956), (389, 30842), (404, 30815), (430, 30755), (457, 30728), (462, 30725), (499, 30629), (511, 30587), (584, 30416), (600, 30395), (608, 30380), (625, 30368), (655, 30320), (701, 30260), (753, 30164), (789, 30101), (820, 30047), (845, 29963), (846, 29957), (848, 29945), (866, 29870), (872, 29849), (890, 29795), (891, 29792), (900, 29768),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 243

Candidate Starts for Reynauld_56:

(Start: 243 @50676 has 3 MA's), (262, 50640), (270, 50607), (Start: 273 @50598 has 28 MA's), (277, 50589), (280, 50580), (282, 50571), (288, 50553), (319, 50493), (329, 50481), (333, 50472), (424, 50325), (461, 50268), (469, 50244), (497, 50181), (542, 50067), (579, 49992), (581, 49989), (594, 49965), (603, 49947), (623, 49926), (651, 49887), (653, 49875), (655, 49872), (752, 49695), (770, 49659), (847, 49446), (856, 49404), (872, 49338), (895, 49263), (902, 49248),

Gene: Riduram_59 Start: 39137, Stop: 41050, Start Num: 58

Candidate Starts for Riduram_59:

(Start: 57 @39134 has 13 MA's), (Start: 58 @39137 has 58 MA's), (Start: 69 @39149 has 45 MA's), (81, 39197), (94, 39230), (158, 39389), (176, 39416), (182, 39425), (236, 39497), (286, 39617), (311, 39680), (367, 39770), (385, 39797), (463, 39926), (470, 39950), (484, 39992), (489, 40004), (495, 40019), (502, 40040), (508, 40061), (514, 40082), (534, 40139), (542, 40157), (557, 40193), (574, 40235), (604, 40295), (659, 40391), (660, 40394), (764, 40571), (792, 40622), (826, 40712), (836, 40748), (838, 40754), (850, 40808), (861, 40847), (888, 40949), (893, 40964), (902, 40985),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 69

Candidate Starts for Rie18_40:

(19, 25319), (Start: 69 @25493 has 45 MA's), (85, 25556), (98, 25577), (116, 25631), (209, 25793), (218, 25808), (Start: 252 @25853 has 1 MA's), (314, 26027), (323, 26036), (374, 26126), (376, 26129), (400, 26168), (406, 26183), (471, 26333), (486, 26369), (524, 26477), (534, 26504), (540, 26516), (556, 26549), (649, 26678), (705, 26795), (837, 27107), (850, 27167), (871, 27257), (882, 27287), (883, 27293), (895, 27329), (923, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 70

Candidate Starts for RikSengupta_42:

(Start: 36 @26629 has 1 MA's), (68, 26719), (Start: 70 @26725 has 6 MA's), (116, 26872), (124, 26890), (218, 27049), (280, 27175), (314, 27265), (323, 27274), (374, 27364), (400, 27406), (408, 27436), (470, 27568), (540, 27754), (550, 27772), (556, 27787), (580, 27844), (643, 27904), (678, 27976), (731, 28093), (742, 28114), (775, 28180), (781, 28210), (817, 28288), (837, 28366), (850, 28426), (861, 28465), (871, 28516), (879, 28534), (924, 28642),

Gene: Riovina_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for Riovina_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470,

22210), (475, 22228), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (741, 22690), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: Riparian_68 Start: 47408, Stop: 49168, Start Num: 200

Candidate Starts for Riparian_68:

(Start: 200 @47408 has 10 MA's), (Start: 250 @47477 has 24 MA's), (283, 47573), (287, 47582), (322, 47663), (346, 47708), (463, 47909), (477, 47957), (500, 48017), (504, 48029), (526, 48095), (569, 48218), (580, 48242), (593, 48266), (649, 48470), (659, 48503), (665, 48518), (691, 48557), (692, 48560), (697, 48569), (735, 48638), (803, 48770), (836, 48893), (837, 48896), (845, 48923), (850, 48953), (852, 48959), (853, 48962), (857, 48980), (861, 48992), (902, 49127), (920, 49157),

Gene: Riverdale_29 Start: 22087, Stop: 23487, Start Num: 219

Candidate Starts for Riverdale_29:

(Start: 219 @22087 has 74 MA's), (254, 22150), (Start: 289 @22255 has 1 MA's), (290, 22258), (329, 22342), (359, 22375), (401, 22426), (404, 22432), (449, 22513), (451, 22516), (452, 22522), (470, 22558), (475, 22576), (476, 22579), (489, 22612), (499, 22633), (505, 22651), (522, 22684), (560, 22765), (576, 22792), (597, 22822), (602, 22831), (624, 22858), (651, 22891), (655, 22906), (698, 22960), (707, 22981), (712, 22993), (722, 23005), (838, 23227), (841, 23236), (843, 23242), (849, 23278), (864, 23338), (870, 23365), (903, 23455),

Gene: Rihhil_41 Start: 31124, Stop: 29736, Start Num: 247

Candidate Starts for Rihhil_41:

(125, 31346), (Start: 247 @31124 has 139 MA's), (308, 30980), (Start: 310 @30974 has 1 MA's), (311, 30971), (389, 30857), (404, 30830), (430, 30770), (457, 30743), (462, 30740), (499, 30644), (511, 30602), (584, 30431), (600, 30410), (608, 30395), (625, 30383), (655, 30335), (701, 30275), (753, 30179), (789, 30116), (820, 30062), (845, 29978), (846, 29972), (848, 29960), (872, 29864), (890, 29810), (891, 29807), (900, 29783),

Gene: Roberts_38 Start: 26376, Stop: 24544, Start Num: 151

Candidate Starts for Roberts_38:

(Start: 151 @26376 has 19 MA's), (184, 26319), (283, 26118), (354, 25983), (423, 25848), (437, 25821), (465, 25764), (468, 25749), (487, 25695), (516, 25599), (518, 25593), (524, 25578), (539, 25533), (552, 25485), (558, 25464), (566, 25446), (588, 25395), (619, 25302), (625, 25290), (639, 25227), (676, 25155), (704, 25095), (713, 25074), (773, 25008), (782, 24990), (791, 24972), (792, 24969), (811, 24933), (836, 24825), (839, 24816), (853, 24756), (864, 24708),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 239

Candidate Starts for RobinSparkles_61:

(Start: 239 @50974 has 5 MA's), (277, 50881), (280, 50872), (283, 50860), (288, 50845), (297, 50827), (330, 50770), (376, 50698), (378, 50695), (419, 50602), (441, 50569), (461, 50536), (463, 50533), (469, 50512), (499, 50443), (511, 50407), (549, 50320), (581, 50257), (583, 50254), (598, 50224), (652, 50152), (653, 50143), (724, 50020), (728, 50014), (813, 49882), (827, 49840), (840, 49795), (847, 49765), (927, 49513),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 247

Candidate Starts for Robinson_41:

(125, 31334), (Start: 247 @31112 has 139 MA's), (308, 30968), (Start: 310 @30962 has 1 MA's), (311, 30959), (389, 30845), (404, 30818), (430, 30758), (457, 30731), (462, 30728), (499, 30632), (511, 30590), (584, 30419), (600, 30398), (608, 30383), (625, 30371), (655, 30323), (701, 30263), (753, 30167), (789, 30104), (820, 30050), (845, 29966), (846, 29960), (848, 29948), (872, 29852), (890, 29798), (891, 29795), (900, 29771),

Gene: Rockabye_105 Start: 73971, Stop: 75830, Start Num: 148

Candidate Starts for Rockabye_105:

(Start: 148 @73971 has 12 MA's), (267, 74187), (280, 74229), (281, 74235), (309, 74268), (346, 74337), (354, 74352), (375, 74388), (400, 74427), (433, 74508), (463, 74568), (563, 74871), (610, 74985), (625, 75030), (639, 75093), (651, 75126), (653, 75138), (677, 75186), (687, 75204), (735, 75270), (737, 75273), (754, 75291), (773, 75330), (808, 75399), (815, 75414), (822, 75441), (830, 75477), (832, 75483), (857, 75600), (889, 75720), (910, 75771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 247

Candidate Starts for Rog141_40:

(14, 31454), (97, 31100), (125, 31025), (Start: 247 @30803 has 139 MA's), (308, 30659), (Start: 310 @30653 has 1 MA's), (311, 30650), (389, 30536), (404, 30509), (430, 30449), (457, 30422), (462, 30419), (499, 30323), (511, 30281), (584, 30110), (600, 30089), (608, 30074), (655, 30014), (701, 29954), (753, 29858), (789, 29795), (820, 29741), (845, 29657), (846, 29651), (848, 29639), (872, 29543), (890, 29489), (891, 29486), (900, 29462),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 56

Candidate Starts for Rooney_70:

(Start: 56 @50294 has 8 MA's), (Start: 69 @50279 has 45 MA's), (85, 50216), (Start: 91 @50207 has 1 MA's), (134, 50102), (Start: 151 @50063 has 19 MA's), (160, 50039), (218, 49964), (236, 49940), (295, 49781), (314, 49742), (323, 49733), (387, 49625), (442, 49517), (466, 49469), (502, 49364), (517, 49313), (540, 49253), (569, 49187), (578, 49166), (580, 49163), (659, 49058), (663, 49049), (667, 49037), (720, 48938), (792, 48821), (798, 48809), (811, 48782), (837, 48692), (842, 48677), (853, 48623), (865, 48566), (902, 48458), (910, 48440),

Gene: Rootkit7_33 Start: 23258, Stop: 24685, Start Num: 222

Candidate Starts for Rootkit7_33:

(192, 23216), (Start: 222 @23258 has 17 MA's), (377, 23576), (464, 23723), (470, 23744), (587, 24011), (624, 24059), (646, 24080), (686, 24137), (701, 24170), (717, 24206), (772, 24284), (784, 24305), (826, 24386), (827, 24389), (849, 24476), (853, 24488), (863, 24527), (870, 24563), (872, 24569), (876, 24581), (898, 24644),

Gene: Rope_66 Start: 47562, Stop: 49322, Start Num: 200

Candidate Starts for Rope_66:

(Start: 200 @47562 has 10 MA's), (Start: 250 @47631 has 24 MA's), (283, 47727), (287, 47736), (322, 47817), (346, 47862), (463, 48063), (477, 48111), (500, 48171), (504, 48183), (526, 48249), (569, 48372), (580, 48396), (593, 48420), (649, 48624), (659, 48657), (665, 48672), (691, 48711), (692, 48714), (697, 48723), (735, 48792), (803, 48924), (836, 49047), (837, 49050), (845, 49077), (850, 49107), (852, 49113), (853, 49116), (857, 49134), (861, 49146), (902, 49281), (919, 49308), (920, 49311),

Gene: RosieMae_40 Start: 30861, Stop: 29473, Start Num: 247

Candidate Starts for RosieMae_40:

(125, 31083), (Start: 247 @30861 has 139 MA's), (308, 30717), (Start: 310 @30711 has 1 MA's), (311, 30708), (381, 30603), (389, 30594), (404, 30567), (430, 30507), (457, 30480), (462, 30477), (499, 30381), (511, 30339), (584, 30168), (600, 30147), (608, 30132), (655, 30072), (701, 30012), (753, 29916), (789, 29853), (820, 29799), (845, 29715), (846, 29709), (848, 29697), (872, 29601), (890, 29547), (891, 29544), (900, 29520),

Gene: Rota_56 Start: 39801, Stop: 41717, Start Num: 57

Candidate Starts for Rota_56:

(Start: 57 @39801 has 13 MA's), (Start: 58 @39804 has 58 MA's), (Start: 69 @39816 has 45 MA's), (81, 39864), (94, 39897), (120, 39966), (158, 40056), (176, 40083), (182, 40092), (236, 40164), (274, 40251), (284, 40281), (286, 40284), (311, 40347), (367, 40437), (385, 40464), (463, 40593), (470, 40617), (484, 40659), (502, 40707), (508, 40728), (514, 40749), (534, 40806), (557, 40860), (574, 40902), (604, 40962), (659, 41058), (660, 41061), (764, 41238), (792, 41289), (825, 41376), (826, 41379), (836, 41415), (838, 41421), (850, 41475), (861, 41514), (888, 41616), (893, 41631), (902, 41652), (929, 41709),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 221

Candidate Starts for RoyalG_59:

(94, 52496), (112, 52445), (153, 52340), (169, 52310), (Start: 194 @52277 has 3 MA's), (Start: 203 @52268 has 1 MA's), (Start: 221 @52241 has 28 MA's), (Start: 273 @52118 has 28 MA's), (288, 52073), (306, 52031), (329, 51983), (330, 51980), (333, 51974), (334, 51971), (346, 51953), (362, 51932), (384, 51905), (453, 51782), (465, 51764), (499, 51677), (504, 51662), (542, 51569), (581, 51491), (594, 51467), (609, 51431), (648, 51401), (662, 51359), (689, 51314), (756, 51179), (763, 51164), (773, 51143), (827, 51059), (844, 51002), (845, 50996), (847, 50984), (859, 50933), (864, 50909), (874, 50870), (878, 50858), (880, 50855), (919, 50762), (925, 50747),

Gene: Rozby_29 Start: 22088, Stop: 23488, Start Num: 219

Candidate Starts for Rozby_29:

(Start: 219 @22088 has 74 MA's), (254, 22151), (Start: 289 @22256 has 1 MA's), (290, 22259), (329, 22343), (359, 22376), (401, 22427), (404, 22433), (449, 22514), (451, 22517), (452, 22523), (470, 22559), (475, 22577), (476, 22580), (489, 22613), (499, 22634), (505, 22652), (522, 22685), (560, 22766), (576, 22793), (597, 22823), (602, 22832), (624, 22859), (651, 22892), (655, 22907), (698, 22961), (707, 22982), (712, 22994), (722, 23006), (838, 23228), (841, 23237), (843, 23243), (849, 23279), (864, 23339), (870, 23366), (903, 23456),

Gene: Rukungu_63 Start: 41487, Stop: 43400, Start Num: 58

Candidate Starts for Rukungu_63:

(20, 41361), (23, 41370), (24, 41382), (35, 41415), (Start: 57 @41484 has 13 MA's), (Start: 58 @41487 has 58 MA's), (Start: 69 @41499 has 45 MA's), (81, 41547), (94, 41580), (120, 41649), (158, 41739), (176, 41766), (182, 41775), (236, 41847), (274, 41934), (286, 41967), (311, 42030), (367, 42120), (463, 42276), (470, 42300), (484, 42342), (502, 42390), (508, 42411), (514, 42432), (534, 42489), (557, 42543), (574, 42585), (604, 42645), (659, 42741), (660, 42744), (764, 42921), (792, 42972), (826, 43062), (836, 43098), (838, 43104), (850, 43158), (861, 43197), (888, 43299), (893, 43314), (902, 43335),

Gene: Rumi_61 Start: 39105, Stop: 41018, Start Num: 58

Candidate Starts for Rumi_61:

(Start: 57 @39102 has 13 MA's), (Start: 58 @39105 has 58 MA's), (Start: 69 @39117 has 45 MA's), (81, 39165), (94, 39198), (158, 39357), (176, 39384), (182, 39393), (236, 39465), (286, 39585), (311, 39648), (367, 39738), (385, 39765), (463, 39894), (470, 39918), (484, 39960), (489, 39972), (495, 39987), (502, 40008), (508, 40029), (514, 40050), (534, 40107), (542, 40125), (557, 40161), (574, 40203), (604, 40263), (659, 40359), (660, 40362), (764, 40539), (792, 40590), (826, 40680), (836, 40716), (838, 40722), (850, 40776), (861, 40815), (888, 40917), (893, 40932), (902, 40953),

Gene: SBlackberry_33 Start: 23236, Stop: 24663, Start Num: 222

Candidate Starts for SBlackberry_33:

(Start: 222 @23236 has 17 MA's), (377, 23554), (403, 23593), (430, 23656), (464, 23701), (470, 23722), (506, 23821), (587, 23989), (624, 24037), (646, 24058), (655, 24085), (685, 24112), (698, 24142), (699, 24145), (701, 24148), (717, 24184), (772, 24262), (819, 24346), (826, 24364), (827, 24367), (849, 24454), (853, 24466), (863, 24505), (870, 24541), (872, 24547), (887, 24592), (898, 24622),

Gene: SJReid_105 Start: 73084, Stop: 74940, Start Num: 148

Candidate Starts for SJReid_105:

(Start: 148 @73084 has 12 MA's), (280, 73342), (281, 73348), (309, 73381), (312, 73390), (346, 73450), (354, 73465), (400, 73540), (408, 73570), (433, 73621), (463, 73681), (563, 73984), (610, 74098), (625, 74143), (638, 74200), (639, 74206), (651, 74239), (653, 74251), (677, 74299), (682, 74308), (687, 74317), (737, 74386), (773, 74443), (808, 74512), (830, 74590), (832, 74596), (851, 74689), (857, 74713), (878, 74794), (889, 74833), (910, 74884),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 247

Candidate Starts for SJay_41:

(14, 31766), (97, 31412), (125, 31337), (Start: 247 @31115 has 139 MA's), (308, 30971), (Start: 310 @30965 has 1 MA's), (311, 30962), (389, 30848), (404, 30821), (430, 30761), (457, 30734), (462, 30731), (499, 30635), (511, 30593), (580, 30431), (584, 30422), (600, 30401), (608, 30386), (625, 30374), (655, 30326), (701, 30266), (753, 30170), (789, 30107), (820, 30053), (845, 29969), (846, 29963), (848, 29951), (866, 29876), (872, 29855), (890, 29801), (891, 29798), (900, 29774),

Gene: Sadboi_61 Start: 41296, Stop: 43209, Start Num: 58

Candidate Starts for Sadboi_61:

(Start: 57 @41293 has 13 MA's), (Start: 58 @41296 has 58 MA's), (Start: 69 @41308 has 45 MA's), (81, 41356), (94, 41389), (120, 41458), (158, 41548), (176, 41575), (182, 41584), (236, 41656), (274, 41743), (286, 41776), (311, 41839), (367, 41929), (385, 41956), (463, 42085), (470, 42109), (484, 42151), (502, 42199), (508, 42220), (514, 42241), (534, 42298), (557, 42352), (574, 42394), (604, 42454), (659, 42550), (660, 42553), (764, 42730), (792, 42781), (826, 42871), (836, 42907), (838, 42913), (850, 42967), (861, 43006), (888, 43108), (893, 43123), (902, 43144),

Gene: Salgado_95 Start: 54910, Stop: 56574, Start Num: 159

Candidate Starts for Salgado_95:

(Start: 159 @54910 has 9 MA's), (205, 54973), (240, 55033), (261, 55069), (Start: 273 @55114 has 28 MA's), (322, 55234), (375, 55327), (395, 55351), (400, 55363), (420, 55417), (452, 55468), (468, 55504), (476, 55531), (487, 55558), (504, 55600), (545, 55717), (585, 55795), (599, 55813), (644, 55864), (655, 55897), (688, 55930), (712, 55987), (728, 56014), (751, 56056), (782, 56113), (793, 56137), (812, 56167), (819, 56185), (827, 56212), (853, 56314), (860, 56341), (863, 56353), (882, 56422), (884, 56431), (894, 56461), (896, 56467), (916, 56503), (924, 56518), (928, 56533), (932, 56554),

Gene: Salvus_51 Start: 39283, Stop: 37772, Start Num: 171

Candidate Starts for Salvus_51:

(Start: 171 @39283 has 2 MA's), (201, 39247), (256, 39157), (257, 39154), (271, 39106), (299, 39037), (362, 38929), (464, 38794), (479, 38743), (481, 38737), (484, 38731), (497, 38707), (512, 38653), (572, 38512), (574, 38509), (604, 38452), (607, 38443), (653, 38380), (655, 38377), (768, 38182), (793, 38137), (836, 38032), (850, 37972), (854, 37957), (902, 37804), (913, 37783),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 221

Candidate Starts for Sam12_58:

(94, 51721), (112, 51670), (129, 51619), (153, 51565), (169, 51535), (Start: 194 @51502 has 3 MA's), (Start: 203 @51493 has 1 MA's), (Start: 221 @51466 has 28 MA's), (288, 51298), (306, 51256), (329, 51208), (334, 51196), (342, 51184), (346, 51178), (362, 51157), (384, 51130), (465, 50989), (499, 50902), (504, 50887), (507, 50875), (521, 50845), (542, 50794), (554, 50767), (581, 50716), (603, 50674), (609, 50656), (623, 50653), (648, 50626), (662, 50584), (689, 50539), (756, 50404), (763, 50389), (773, 50368), (819, 50311), (826, 50287), (827, 50284), (844, 50227), (845, 50221), (846, 50215), (847, 50209), (859, 50158), (864, 50134), (874, 50095), (878, 50083), (880, 50080), (919, 49987), (925, 49972), (931, 49951),

Gene: SamW_45 Start: 36746, Stop: 38122, Start Num: 247

Candidate Starts for SamW_45:

(Start: 247 @36746 has 139 MA's), (274, 36815), (281, 36833), (320, 36926), (357, 36986), (360, 36992), (362, 36995), (457, 37115), (467, 37133), (511, 37250), (564, 37388), (584, 37427), (602, 37460), (605, 37466), (611, 37481), (651, 37520), (694, 37580), (705, 37604), (734, 37640), (783, 37709), (785, 37715), (828, 37796), (851, 37892), (854, 37904), (857, 37916), (870, 37973), (872, 37979), (876, 37991), (886, 38021), (906, 38072),

Gene: Sampudon_60 Start: 41637, Stop: 43553, Start Num: 57

Candidate Starts for Sampudon_60:

(Start: 57 @41637 has 13 MA's), (Start: 58 @41640 has 58 MA's), (Start: 69 @41652 has 45 MA's), (81, 41700), (120, 41802), (158, 41892), (176, 41919), (182, 41928), (236, 42000), (286, 42120), (311, 42183), (367, 42273), (385, 42300), (463, 42429), (470, 42453), (484, 42495), (502, 42543), (508, 42564), (514, 42585), (534, 42642), (557, 42696), (574, 42738), (604, 42798), (659, 42894), (660, 42897), (764, 43074), (792, 43125), (825, 43212), (826, 43215), (836, 43251), (838, 43257), (850, 43311), (861, 43350), (888, 43452), (893, 43467), (902, 43488),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 253

Candidate Starts for Sansa_39:

(Start: 253 @31177 has 24 MA's), (265, 31147), (Start: 266 @31141 has 1 MA's), (276, 31108), (389, 30916), (404, 30889), (430, 30829), (457, 30802), (462, 30799), (475, 30757), (499, 30703), (511, 30661), (557, 30547), (584, 30490), (600, 30469), (608, 30454), (625, 30442), (642, 30430), (645, 30427), (651, 30409), (685, 30328), (701, 30292), (728, 30238), (750, 30196), (768, 30166), (774, 30151), (784, 30142), (786, 30136), (816, 30094), (836, 30025), (844, 30001), (845, 29995), (846, 29989), (848, 29977), (875, 29872), (882, 29854), (885, 29842), (902, 29797),

Gene: Sapo_34 Start: 32116, Stop: 30710, Start Num: 224

Candidate Starts for Sapo_34:

(104, 32353), (105, 32350), (Start: 148 @32239 has 12 MA's), (155, 32224), (Start: 224 @32116 has 13 MA's), (265, 32038), (271, 32011), (284, 31981), (286, 31978), (409, 31771), (424, 31738), (523, 31531), (602, 31384), (608, 31369), (710, 31228), (793, 31093), (814, 31063), (816, 31060), (836, 30991), (837, 30988), (844, 30967), (850, 30931), (851, 30928), (872, 30841), (876, 30829), (903, 30742),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 253

Candidate Starts for Saratos_40:

(Start: 249 @30931 has 8 MA's), (Start: 253 @30928 has 24 MA's), (265, 30898), (Start: 266 @30892 has 1 MA's), (276, 30859), (389, 30667), (404, 30640), (430, 30580), (457, 30553), (462, 30550), (466, 30544), (475, 30508), (484, 30484), (499, 30454), (511, 30412), (557, 30298), (584, 30241), (600, 30220), (608, 30205), (625, 30193), (642, 30181), (645, 30178), (651, 30160), (685, 30079), (701, 30043), (728, 29989), (750, 29947), (768, 29917), (774, 29902), (784, 29893), (786, 29887), (816, 29845), (836, 29776), (844, 29752), (845, 29746), (846, 29740), (848, 29728), (875, 29623), (882, 29605), (885, 29593), (902, 29548),

Gene: SassyC_75 Start: 51233, Stop: 49344, Start Num: 56

Candidate Starts for SassyC_75:

(Start: 56 @51233 has 8 MA's), (85, 51155), (Start: 91 @51146 has 1 MA's), (124, 51062), (134, 51041), (160, 50978), (214, 50909), (218, 50903), (236, 50879), (314, 50681), (364, 50597), (366, 50594), (387, 50564), (400, 50537), (442, 50456), (502, 50303), (517, 50252), (540, 50192), (578, 50105), (580, 50102), (659, 49997), (663, 49988), (667, 49976), (720, 49877), (755, 49838), (798, 49748), (811, 49721), (814, 49715), (837, 49631), (850, 49571), (853, 49562), (856, 49547), (865, 49505), (869, 49487), (888, 49433), (900, 49400), (910, 49379), (923, 49361),

Gene: Savage2526_29 Start: 22151, Stop: 23551, Start Num: 219

Candidate Starts for Savage2526_29:

(Start: 219 @22151 has 74 MA's), (254, 22214), (Start: 289 @22319 has 1 MA's), (290, 22322), (329, 22406), (359, 22439), (401, 22490), (404, 22496), (449, 22577), (451, 22580), (452, 22586), (470, 22622), (475, 22640), (476, 22643), (499, 22697), (522, 22748), (560, 22829), (576, 22856), (597, 22886), (602, 22895), (624, 22922), (651, 22955), (655, 22970), (698, 23024), (707, 23045), (712, 23057), (722, 23069), (838, 23291), (841, 23300), (843, 23306), (849, 23342), (864, 23402), (870, 23429), (903, 23519),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 250

Candidate Starts for Schimmels22_39:

(Start: 250 @29851 has 24 MA's), (389, 29575), (401, 29554), (457, 29461), (462, 29458), (469, 29437), (475, 29416), (511, 29320), (584, 29149), (601, 29125), (608, 29113), (625, 29101), (642, 29089), (645, 29086), (651, 29068), (655, 29053), (686, 29026), (701, 28993), (711, 28969), (753, 28897), (768, 28867), (789, 28834), (836, 28726), (839, 28717), (844, 28702), (845, 28696), (846, 28690), (848, 28678), (872, 28582), (875, 28573), (885, 28543), (900, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 247

Candidate Starts for Schnapsidee_40:

(165, 31364), (Start: 166 @31361 has 1 MA's), (168, 31358), (Start: 247 @31262 has 139 MA's), (308, 31115), (Start: 310 @31109 has 1 MA's), (311, 31106), (389, 30992), (404, 30965), (430, 30905), (457, 30878), (462, 30875), (499, 30779), (511, 30737), (584, 30566), (600, 30545), (625, 30518), (701, 30410), (753, 30314), (820, 30197), (826, 30179), (845, 30113), (846, 30107), (848, 30095), (872, 29999), (890, 29945), (891, 29942), (900, 29918), (918, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 246

Candidate Starts for Schubert_39:

(Start: 246 @30441 has 1 MA's), (308, 30297), (Start: 310 @30291 has 1 MA's), (311, 30288), (312, 30285), (404, 30147), (430, 30087), (462, 30057), (499, 29961), (511, 29919), (556, 29808), (584, 29748), (608, 29712), (625, 29700), (657, 29649), (659, 29643), (701, 29592), (706, 29580), (745, 29508), (750, 29496), (789, 29433), (836, 29325), (844, 29301), (845, 29295), (846, 29289), (848, 29277), (858, 29235), (882, 29154), (885, 29142), (902, 29097),

Gene: Scissor2024_40 Start: 29498, Stop: 28113, Start Num: 250

Candidate Starts for Scissor2024_40:

(Start: 250 @29498 has 24 MA's), (346, 29285), (389, 29222), (401, 29201), (457, 29108), (462, 29105), (469, 29084), (475, 29063), (511, 28967), (584, 28796), (601, 28772), (608, 28760), (625, 28748), (642, 28736), (645, 28733), (651, 28715), (655, 28700), (686, 28673), (701, 28640), (706, 28628), (711, 28616), (753, 28544), (774, 28499), (789, 28481), (836, 28373), (839, 28364), (844, 28349), (845, 28343), (846, 28337), (872, 28229), (875, 28220), (885, 28190), (900, 28148),

Gene: Scuba_83 Start: 56215, Stop: 54161, Start Num: 38

Candidate Starts for Scuba_83:

(8, 56488), (Start: 38 @56215 has 35 MA's), (84, 56062), (96, 56047), (127, 55966), (195, 55843), (215, 55813), (274, 55705), (286, 55672), (306, 55621), (323, 55588), (374, 55498), (397, 55465), (413, 55435), (492, 55279), (508, 55228), (542, 55132), (553, 55099), (568, 55063), (580, 55036), (649, 54913), (683, 54844), (691, 54826), (697, 54814), (771, 54652), (782, 54613), (796, 54583), (803, 54568), (836, 54466), (851, 54403), (870, 54322), (881, 54298), (899, 54238),

Gene: Scuttle_29 Start: 22156, Stop: 23556, Start Num: 219

Candidate Starts for Scuttle_29:

(Start: 219 @22156 has 74 MA's), (254, 22219), (Start: 289 @22324 has 1 MA's), (290, 22327), (329, 22411), (359, 22444), (401, 22495), (404, 22501), (449, 22582), (451, 22585), (452, 22591), (470, 22627), (475, 22645), (476, 22648), (489, 22681), (499, 22702), (522, 22753), (560, 22834), (576, 22861), (602, 22900), (624, 22927), (651, 22960), (655, 22975), (698, 23029), (707, 23050), (712, 23062), (722, 23074), (793, 23188), (838, 23296), (841, 23305), (843, 23311), (849, 23347), (864, 23407), (870, 23434), (903, 23524),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 247

Candidate Starts for Sedgewig_40:

(14, 31452), (97, 31098), (125, 31023), (Start: 247 @30801 has 139 MA's), (308, 30657), (Start: 310 @30651 has 1 MA's), (311, 30648), (381, 30543), (389, 30534), (404, 30507), (430, 30447), (457, 30420), (462, 30417), (499, 30321), (511, 30279), (584, 30108), (600, 30087), (608, 30072), (655, 30012), (701, 29952), (753, 29856), (789, 29793), (820, 29739), (845, 29655), (846, 29649), (848, 29637), (890, 29487), (891, 29484), (900, 29460),

Gene: Send513_66 Start: 47939, Stop: 49699, Start Num: 200

Candidate Starts for Send513_66:

(Start: 200 @47939 has 10 MA's), (Start: 250 @48008 has 24 MA's), (283, 48104), (287, 48113), (322, 48194), (346, 48239), (463, 48440), (477, 48488), (500, 48548), (504, 48560), (526, 48626), (569, 48749), (580, 48773), (593, 48797), (649, 49001), (659, 49034), (665, 49049), (691, 49088), (692, 49091), (697, 49100), (735, 49169), (803, 49301), (836, 49424), (837, 49427), (845, 49454), (850, 49484), (852, 49490), (853, 49493), (857, 49511), (861, 49523), (902, 49658), (920, 49688),

Gene: Sergei_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for Sergei_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: ShaiHulud_41 Start: 31118, Stop: 29730, Start Num: 247

Candidate Starts for ShaiHulud_41:

(14, 31769), (97, 31415), (125, 31340), (Start: 247 @31118 has 139 MA's), (308, 30974), (Start: 310 @30968 has 1 MA's), (311, 30965), (389, 30851), (404, 30824), (430, 30764), (457, 30737), (462, 30734), (499, 30638), (511, 30596), (584, 30425), (600, 30404), (625, 30377), (655, 30329), (701, 30269), (789, 30110), (820, 30056), (845, 29972), (846, 29966), (848, 29954), (872, 29858), (890, 29804), (891, 29801), (900, 29777),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 56

Candidate Starts for ShakeNBake_70:

(39, 50243), (Start: 56 @50183 has 8 MA's), (Start: 69 @50168 has 45 MA's), (85, 50105), (Start: 91 @50096 has 1 MA's), (98, 50084), (134, 49991), (160, 49928), (176, 49910), (218, 49853), (236, 49829), (295, 49670), (314, 49631), (323, 49622), (387, 49514), (442, 49406), (484, 49301), (517, 49202), (540, 49142), (578, 49055), (580, 49052), (659, 48947), (663, 48938), (667, 48926), (720, 48827), (755, 48788), (792, 48710), (798, 48698), (811, 48671), (837, 48581), (842, 48566), (853, 48512), (865, 48455), (910, 48329),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 253

Candidate Starts for Shamu_41:

(Start: 249 @31110 has 8 MA's), (Start: 253 @31107 has 24 MA's), (265, 31077), (Start: 266 @31071 has 1 MA's), (276, 31038), (389, 30846), (404, 30819), (430, 30759), (457, 30732), (462, 30729), (475, 30687), (484, 30663), (499, 30633), (511, 30591), (557, 30477), (584, 30420), (600, 30399), (608, 30384), (625, 30372), (642, 30360), (645, 30357), (651, 30339), (685, 30258), (701, 30222), (728, 30168), (750, 30126), (768, 30096), (784, 30072), (786, 30066), (816, 30024), (836, 29955), (844, 29931), (845, 29925), (846, 29919), (848, 29907), (872, 29811), (875, 29802), (882, 29784), (885, 29772), (902, 29727),

Gene: SheckWes_60 Start: 40367, Stop: 38889, Start Num: 198

Candidate Starts for SheckWes_60:

(139, 40448), (170, 40394), (Start: 198 @40367 has 49 MA's), (Start: 241 @40304 has 2 MA's), (255, 40283), (257, 40277), (Start: 266 @40250 has 1 MA's), (283, 40196), (290, 40175), (299, 40160), (306, 40145), (353, 40064), (368, 40040), (417, 39953), (462, 39917), (479, 39863), (481, 39857), (484, 39851), (512, 39773), (518, 39758), (556, 39668), (559, 39659), (572, 39632), (605, 39569), (608, 39560), (625, 39548), (648, 39527), (652, 39512), (653, 39503), (663, 39482), (694, 39443), (698, 39434), (705, 39419), (728, 39377), (745, 39347), (768, 39299), (770, 39296), (793, 39254), (805, 39236), (839, 39140), (850, 39089), (858, 39059), (866, 39026), (884, 38969), (889, 38954),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 247

Candidate Starts for Shee_41:

(14, 31762), (97, 31408), (125, 31333), (Start: 247 @31111 has 139 MA's), (308, 30967), (Start: 310 @30961 has 1 MA's), (311, 30958), (389, 30844), (404, 30817), (430, 30757), (457, 30730), (462, 30727), (499, 30631), (511, 30589), (580, 30427), (584, 30418), (600, 30397), (608, 30382), (625, 30370), (655, 30322), (701, 30262), (753, 30166), (789, 30103), (820, 30049), (845, 29965), (846, 29959), (848, 29947), (872, 29851), (890, 29797), (891, 29794), (900, 29770),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 273

Candidate Starts for Shelley_57:

(94, 52434), (142, 52305), (Start: 194 @52215 has 3 MA's), (Start: 273 @52086 has 28 MA's), (288, 52041), (329, 51951), (330, 51948), (333, 51942), (346, 51921), (395, 51858), (432, 51780), (453, 51750), (465, 51732), (499, 51645), (504, 51630), (521, 51588), (557, 51507), (581, 51459), (603, 51417), (609, 51399), (623, 51396), (648, 51369), (665, 51318), (689, 51282), (711, 51231), (756, 51147), (765, 51126), (844, 50970), (845, 50964), (847, 50952), (878, 50826), (925, 50712),

Gene: Shrew_71 Start: 40994, Stop: 42517, Start Num: 203

Candidate Starts for Shrew_71:

(169, 40949), (174, 40955), (Start: 203 @40994 has 1 MA's), (230, 41036), (235, 41054), (257, 41087), (272, 41138), (284, 41171), (293, 41198), (308, 41225), (364, 41315), (479, 41531), (480, 41534), (497, 41567), (503, 41585), (530, 41660), (544, 41699), (546, 41705), (651, 41873), (653, 41885), (733, 42023), (760, 42071), (889, 42440), (890, 42443), (900, 42470), (904, 42476),

Gene: Shrooms_93 Start: 54534, Stop: 56189, Start Num: 159

Candidate Starts for Shrooms_93:

(Start: 159 @54534 has 9 MA's), (205, 54597), (210, 54606), (225, 54627), (260, 54690), (307, 54828), (322, 54858), (375, 54951), (400, 54987), (420, 55041), (452, 55092), (466, 55116), (468, 55128), (476, 55155), (484, 55176), (487, 55182), (504, 55224), (545, 55341), (585, 55419), (599, 55437), (644, 55488), (655, 55521), (688, 55554), (709, 55602), (728, 55638), (751, 55680), (812, 55791), (819, 55809), (827, 55836), (835, 55863), (860, 55965), (882, 56046), (884, 56055), (885, 56058), (894, 56085), (896, 56091), (916, 56127), (924, 56142), (932, 56178),

Gene: Shynx_42 Start: 31327, Stop: 32721, Start Num: 224

Candidate Starts for Shynx_42:

(Start: 224 @31327 has 13 MA's), (Start: 228 @31330 has 3 MA's), (265, 31405), (270, 31429), (284, 31459), (Start: 289 @31474 has 1 MA's), (341, 31564), (370, 31600), (430, 31699), (435, 31708), (474, 31777), (523, 31900), (587, 32035), (605, 32062), (624, 32083), (646, 32104), (686, 32161), (701, 32194), (705, 32203), (726, 32245), (770, 32311), (784, 32335), (793, 32353), (805, 32371), (827, 32425), (836, 32455), (849, 32512), (850, 32515), (863, 32563), (871, 32602), (876, 32617), (901, 32686), (909, 32704), (915, 32713),

Gene: Sienna_50 Start: 36692, Stop: 38746, Start Num: 69

Candidate Starts for Sienna_50:

(Start: 69 @36692 has 45 MA's), (74, 36716), (97, 36779), (128, 36863), (143, 36905), (Start: 273 @37127 has 28 MA's), (286, 37163), (318, 37238), (339, 37277), (369, 37319), (390, 37337), (399, 37358), (405, 37370), (434, 37430), (444, 37445), (463, 37463), (489, 37541), (495, 37556), (496, 37559), (508, 37598), (514, 37619), (556, 37721), (580, 37778), (591, 37799), (593, 37802), (597, 37814), (613, 37862), (614, 37868), (632, 37916), (637, 37949), (643, 37973), (650, 37991), (660, 38021), (714, 38144), (723, 38177), (727, 38189), (735, 38204), (757, 38243), (779, 38288), (792, 38315), (824, 38399), (842, 38462), (850, 38504), (853, 38513), (855, 38522), (865, 38570), (868, 38579), (870, 38591), (875, 38606), (889, 38648),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 69

Candidate Starts for SilentWarrior_40:

(19, 25008), (Start: 69 @25182 has 45 MA's), (85, 25245), (98, 25266), (116, 25320), (186, 25455), (218, 25497), (Start: 252 @25542 has 1 MA's), (314, 25716), (323, 25725), (374, 25815), (400, 25857), (406, 25872), (486, 26058), (534, 26193), (540, 26205), (556, 26238), (649, 26367), (705, 26484), (826, 26757), (837, 26796), (850, 26856), (871, 26946), (882, 26976), (895, 27018), (923, 27069),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 249

Candidate Starts for Sinatra_40:

(232, 30592), (Start: 249 @30565 has 8 MA's), (Start: 253 @30562 has 24 MA's), (265, 30532), (308, 30424), (Start: 310 @30418 has 1 MA's), (311, 30415), (320, 30400), (430, 30214), (443, 30205), (462, 30184), (475, 30142), (499, 30088), (584, 29875), (600, 29854), (608, 29839), (625, 29827), (645, 29812), (657, 29776), (661, 29767), (685, 29752), (701, 29716), (753, 29617), (789, 29554), (807, 29527), (834, 29452), (836, 29446), (839, 29437), (844, 29422), (845, 29416), (846, 29410), (848, 29398), (882, 29275), (885, 29263),

Gene: SirHarley_54 Start: 39905, Stop: 41848, Start Num: 58

Candidate Starts for SirHarley_54:

(41, 39842), (Start: 58 @39905 has 58 MA's), (72, 39932), (Start: 95 @40004 has 1 MA's), (115, 40058), (138, 40118), (150, 40145), (180, 40196), (210, 40238), (236, 40274), (274, 40361), (308, 40454), (316, 40469), (328, 40490), (399, 40592), (411, 40625), (424, 40649), (466, 40709), (495, 40796), (518, 40871), (557, 40961), (580, 41012), (582, 41015), (628, 41105), (649, 41123), (659, 41156), (697, 41222), (705, 41240), (735, 41303), (779, 41387), (826, 41504), (836, 41552), (851, 41615), (870, 41699),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 253

Candidate Starts for SirVictor_40:

(Start: 249 @30632 has 8 MA's), (Start: 253 @30629 has 24 MA's), (265, 30599), (308, 30491), (311, 30482), (342, 30428), (401, 30347), (430, 30281), (462, 30251), (476, 30206), (499, 30155), (580, 29951), (584, 29942), (608, 29903), (625, 29891), (642, 29879), (645, 29876), (657, 29840), (661, 29831), (685, 29816), (701, 29780), (706, 29768), (711, 29756), (753, 29681), (789, 29621), (836, 29513), (839, 29504), (844, 29489), (845, 29483), (846, 29477), (919, 29255),

Gene: Sixama_168 Start: 96248, Stop: 94338, Start Num: 147

Candidate Starts for Sixama_168:

(Start: 147 @96248 has 5 MA's), (158, 96227), (160, 96218), (Start: 171 @96200 has 2 MA's), (206, 96155), (215, 96140), (231, 96116), (245, 96086), (278, 95996), (296, 95951), (302, 95939), (333, 95870), (401, 95753), (408, 95726), (468, 95597), (509, 95480), (526, 95432), (548, 95363), (610, 95201), (621, 95165), (625, 95156), (630, 95141), (634, 95129), (639, 95093), (651, 95060), (681, 94985), (687, 94973), (700, 94934), (729, 94883), (815, 94721), (860, 94526), (873, 94469), (886, 94424),

Gene: SketchMex_53 Start: 38648, Stop: 37170, Start Num: 198

Candidate Starts for SketchMex_53:

(Start: 198 @38648 has 49 MA's), (255, 38561), (257, 38555), (272, 38504), (290, 38453), (299, 38438), (346, 38354), (362, 38330), (368, 38321), (462, 38198), (479, 38144), (481, 38138), (484, 38132), (512, 38054), (559, 37940), (572, 37913), (584, 37889), (648, 37808), (653, 37784), (663, 37763), (694, 37724), (702, 37706), (705, 37700), (766, 37589), (770, 37583), (793, 37541), (805, 37523), (836, 37436), (839, 37427), (845, 37406), (850, 37376), (858, 37346), (866, 37313), (895, 37223),

Gene: Skysand_75 Start: 57318, Stop: 55261, Start Num: 38

Candidate Starts for Skysand_75:

(7, 57606), (11, 57498), (Start: 38 @57318 has 35 MA's), (195, 56943), (275, 56802), (292, 56751), (321, 56691), (323, 56688), (364, 56616), (374, 56598), (413, 56535), (416, 56529), (471, 56436), (484, 56397), (492, 56379), (500, 56355), (542, 56232), (553, 56199), (580, 56136), (649, 56013), (683, 55944), (691, 55926), (735, 55821), (771, 55752), (782, 55713), (793, 55689), (796, 55683), (820, 55626), (836, 55566), (845, 55536), (851, 55503), (899, 55338), (923, 55296),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 69

Candidate Starts for Snakehole_40:

(Start: 69 @25114 has 45 MA's), (85, 25177), (98, 25198), (116, 25252), (218, 25429), (Start: 252 @25474 has 1 MA's), (314, 25648), (323, 25657), (374, 25747), (406, 25804), (486, 25990), (534, 26125), (540, 26137), (556, 26170), (649, 26299), (705, 26416), (836, 26725), (837, 26728), (850, 26788), (871, 26878), (882, 26908), (895, 26950), (923, 27001),

Gene: Socotra_54 Start: 38839, Stop: 37361, Start Num: 198

Candidate Starts for Socotra_54:

(Start: 198 @38839 has 49 MA's), (255, 38752), (257, 38746), (283, 38665), (290, 38644), (364, 38518), (479, 38335), (481, 38329), (484, 38323), (512, 38245), (559, 38131), (572, 38104), (584, 38080), (625, 38020), (653, 37975), (663, 37954), (694, 37915), (702, 37897), (766, 37780), (793, 37732), (794, 37729), (805, 37714), (839, 37618), (845, 37597), (850, 37567), (913, 37378),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for SoilGremlin_42:

(125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (466, 30727), (499, 30637), (511, 30595), (584, 30424), (608, 30388), (625, 30376), (651, 30343), (655, 30328), (701, 30268), (753, 30172), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: SolidSnake_43 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for SolidSnake_43:

(125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (466, 30730), (499, 30640), (511, 30598), (584, 30427), (608, 30391), (625, 30379), (651, 30346), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 221

Candidate Starts for Sombrero_60:

(94, 52288), (112, 52237), (153, 52132), (169, 52102), (Start: 194 @52069 has 3 MA's), (Start: 203 @52060 has 1 MA's), (Start: 221 @52033 has 28 MA's), (288, 51865), (306, 51823), (329, 51775), (334, 51763), (342, 51751), (346, 51745), (362, 51724), (465, 51556), (499, 51469), (504, 51454), (507, 51442), (521, 51412), (542, 51361), (581, 51283), (594, 51259), (603, 51241), (609, 51223), (623, 51220), (627, 51211), (648, 51193), (689, 51106), (756, 50971), (763, 50956), (773, 50935), (826, 50854), (827, 50851), (844, 50794), (845, 50788), (847, 50776), (859, 50725), (864, 50701), (874, 50662), (878, 50650), (880, 50647), (919, 50554), (925, 50539), (931, 50518),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 247

Candidate Starts for SonOfLevi_41:

(125, 31056), (Start: 247 @30834 has 139 MA's), (308, 30690), (Start: 310 @30684 has 1 MA's), (311, 30681), (389, 30567), (404, 30540), (430, 30480), (457, 30453), (462, 30450), (499, 30354), (511, 30312), (580, 30150), (584, 30141), (600, 30120), (625, 30093), (651, 30060), (655, 30045), (692, 29970), (701, 29952), (753, 29856), (789, 29793), (820, 29739), (845, 29655), (846, 29649), (848, 29637), (866, 29562), (872, 29541), (890, 29487), (891, 29484), (900, 29460),

Gene: Sopespian_50 Start: 38728, Stop: 37250, Start Num: 198

Candidate Starts for Sopespian_50:

(Start: 198 @38728 has 49 MA's), (255, 38641), (257, 38635), (283, 38554), (290, 38533), (362, 38410), (364, 38407), (479, 38224), (481, 38218), (484, 38212), (512, 38134), (559, 38020), (572, 37993), (584, 37969), (625, 37909), (653, 37864), (663, 37843), (694, 37804), (702, 37786), (766, 37669), (793, 37621), (794, 37618), (805, 37603), (839, 37507), (845, 37486), (850, 37456),

Gene: Soror1_40 Start: 31284, Stop: 29893, Start Num: 247

Candidate Starts for Soror1_40:

(92, 31572), (101, 31551), (Start: 247 @31284 has 139 MA's), (308, 31137), (Start: 310 @31131 has 1 MA's), (311, 31128), (346, 31068), (389, 31014), (404, 30987), (430, 30927), (457, 30900), (462, 30897), (499, 30801), (511, 30759), (584, 30588), (600, 30567), (701, 30432), (753, 30336), (820, 30219), (826, 30201), (845, 30135), (846, 30129), (848, 30117), (872, 30021), (890, 29967), (891, 29964), (900, 29940), (918, 29910),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 70

Candidate Starts for Sparcetus_42:

(Start: 36 @26508 has 1 MA's), (68, 26598), (Start: 70 @26604 has 6 MA's), (116, 26751), (124, 26769), (218, 26928), (280, 27054), (314, 27144), (323, 27153), (374, 27243), (408, 27315), (470, 27447), (540, 27633), (550, 27651), (556, 27666), (580, 27723), (643, 27783), (678, 27855), (742, 27993), (775, 28059), (781, 28089), (782, 28092), (817, 28167), (837, 28245), (850, 28305), (861, 28344), (871, 28395), (879, 28413), (924, 28521),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 221

Candidate Starts for Squibbles_58:

(94, 52584), (112, 52533), (129, 52482), (153, 52428), (169, 52398), (Start: 194 @52365 has 3 MA's), (Start: 203 @52356 has 1 MA's), (Start: 221 @52329 has 28 MA's), (288, 52161), (306, 52119), (329, 52071), (334, 52059), (342, 52047), (346, 52041), (362, 52020), (384, 51993), (465, 51852), (499, 51765), (504, 51750), (507, 51738), (521, 51708), (542, 51657), (554, 51630), (581, 51579), (603, 51537), (609, 51519), (623, 51516), (648, 51489), (662, 51447), (689, 51402), (756, 51267), (763, 51252), (773, 51231), (819, 51174), (827, 51147), (844, 51090), (845, 51084), (846, 51078), (847, 51072), (859, 51021), (864, 50997), (874, 50958), (878, 50946), (880, 50943), (919, 50850), (925, 50835), (931, 50814),

Gene: Srilaccoli3_51 Start: 49904, Stop: 48411, Start Num: 243

Candidate Starts for Srilaccoli3_51:

(Start: 243 @49904 has 3 MA's), (262, 49868), (270, 49835), (Start: 273 @49826 has 28 MA's), (277, 49817), (280, 49808), (282, 49799), (288, 49781), (319, 49721), (329, 49709), (333, 49700), (424, 49553), (469, 49472), (579, 49220), (581, 49217), (603, 49175), (623, 49154), (651, 49115), (653, 49103), (655, 49100), (672, 49070), (752, 48923), (770, 48887), (847, 48674), (856, 48632), (872, 48566), (895, 48491), (902, 48476),

Gene: StAB_50 Start: 39824, Stop: 41185, Start Num: 247

Candidate Starts for StAB_50:

(Start: 247 @39824 has 139 MA's), (274, 39893), (281, 39911), (320, 40004), (353, 40058), (357, 40064), (360, 40070), (362, 40073), (457, 40193), (467, 40211), (511, 40328), (564, 40466), (584, 40505), (602, 40538), (605, 40544), (611, 40559), (651, 40598), (694, 40658), (734, 40718), (785, 40793), (828, 40874), (851, 40970), (870, 41051), (872, 41057), (876, 41069), (886, 41099),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Stanktossa_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (556, 30481), (584, 30421), (608, 30385), (625, 30373), (651, 30340), (655, 30325), (701, 30265), (753, 30169), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: StarStruck_73 Start: 56760, Stop: 54685, Start Num: 38

Candidate Starts for StarStruck_73:

(Start: 38 @56760 has 35 MA's), (76, 56640), (Start: 91 @56595 has 1 MA's), (93, 56592), (215, 56349), (260, 56292), (274, 56241), (292, 56187), (323, 56124), (374, 56034), (376, 56031), (393, 56007), (413, 55971), (492, 55815), (500, 55791), (542, 55668), (580, 55557), (593, 55533), (649, 55434), (667, 55380), (701, 55326), (718, 55284), (735, 55245), (771, 55176), (779, 55143), (796, 55107), (817, 55062), (820, 55050), (836, 54990), (851, 54927), (870, 54846), (899, 54762),

Gene: Starburst_53 Start: 38723, Stop: 37245, Start Num: 198

Candidate Starts for Starburst_53:

(Start: 198 @38723 has 49 MA's), (255, 38636), (257, 38630), (283, 38549), (290, 38528), (364, 38402), (479, 38219), (481, 38213), (484, 38207), (512, 38129), (559, 38015), (572, 37988), (584, 37964), (625, 37904), (653, 37859), (663, 37838), (694, 37799), (702, 37781), (766, 37664), (793, 37616), (794, 37613), (805, 37598), (839, 37502), (845, 37481), (850, 37451),

Gene: SteamedHams_54 Start: 38292, Stop: 36814, Start Num: 198

Candidate Starts for SteamedHams_54:

(Start: 198 @38292 has 49 MA's), (257, 38199), (Start: 266 @38172 has 1 MA's), (290, 38097), (Start: 310 @38055 has 1 MA's), (362, 37974), (462, 37842), (479, 37788), (484, 37776), (512, 37698), (559, 37584), (572, 37557), (584, 37533), (605, 37494), (653, 37428), (663, 37407), (702, 37350), (766, 37233), (793, 37185), (805, 37167), (839, 37071), (845, 37050), (850, 37020),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 221

Candidate Starts for SteveFrench_58:

(94, 52736), (112, 52685), (153, 52580), (169, 52550), (Start: 194 @52517 has 3 MA's), (Start: 203 @52508 has 1 MA's), (Start: 221 @52481 has 28 MA's), (Start: 273 @52358 has 28 MA's), (288, 52313), (306, 52271), (329, 52223), (330, 52220), (333, 52214), (334, 52211), (346, 52193), (362, 52172), (384, 52145), (453, 52022), (465, 52004), (499, 51917), (504, 51902), (542, 51809), (581, 51731), (594, 51707), (609, 51671), (648, 51641), (662, 51599), (689, 51554), (756, 51419), (763, 51404), (773, 51383), (827, 51299), (844, 51242), (845, 51236), (847, 51224), (859, 51173), (864,

51149), (874, 51110), (878, 51098), (880, 51095), (919, 51002), (925, 50987),

Gene: Stewart25555_92 Start: 77330, Stop: 79183, Start Num: 148

Candidate Starts for Stewart25555_92:

(Start: 148 @77330 has 12 MA's), (280, 77603), (354, 77708), (375, 77744), (396, 77774), (423, 77843), (427, 77852), (453, 77897), (498, 78023), (567, 78236), (586, 78281), (610, 78341), (625, 78386), (639, 78449), (651, 78482), (653, 78494), (659, 78506), (735, 78623), (776, 78692), (808, 78752), (832, 78836), (847, 78908), (851, 78929), (857, 78953), (908, 79121), (910, 79124),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 273

Candidate Starts for Sticker17_57:

(94, 52949), (142, 52820), (191, 52733), (Start: 194 @52730 has 3 MA's), (Start: 273 @52601 has 28 MA's), (288, 52556), (329, 52466), (330, 52463), (333, 52457), (346, 52436), (395, 52373), (453, 52265), (465, 52247), (499, 52160), (504, 52145), (521, 52103), (557, 52022), (581, 51974), (603, 51932), (609, 51914), (623, 51911), (648, 51884), (665, 51833), (689, 51797), (711, 51746), (756, 51662), (765, 51641), (844, 51485), (845, 51479), (847, 51467), (878, 51341), (925, 51227),

Gene: Stickynote_71 Start: 52712, Stop: 50787, Start Num: 67

Candidate Starts for Stickynote_71:

(33, 52805), (Start: 67 @52712 has 8 MA's), (129, 52541), (153, 52487), (274, 52283), (344, 52127), (374, 52076), (376, 52073), (407, 52031), (465, 51944), (466, 51941), (489, 51869), (493, 51860), (649, 51503), (659, 51470), (692, 51413), (820, 51131), (838, 51065), (842, 51053), (846, 51035), (847, 51029), (851, 51008), (865, 50945), (875, 50912), (888, 50873),

Gene: Stiles_49 Start: 38782, Stop: 40143, Start Num: 247

Candidate Starts for Stiles_49:

(Start: 247 @38782 has 139 MA's), (277, 38857), (279, 38863), (281, 38869), (320, 38962), (353, 39016), (357, 39022), (360, 39028), (362, 39031), (457, 39151), (467, 39169), (511, 39286), (564, 39424), (584, 39463), (602, 39496), (605, 39502), (611, 39517), (651, 39556), (694, 39616), (785, 39751), (828, 39832), (851, 39928), (870, 40009), (872, 40015), (876, 40027), (886, 40057),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 247

Candidate Starts for StingRay_40:

(125, 31041), (Start: 247 @30819 has 139 MA's), (308, 30675), (Start: 310 @30669 has 1 MA's), (311, 30666), (389, 30552), (404, 30525), (430, 30465), (457, 30438), (462, 30435), (499, 30339), (511, 30297), (584, 30126), (600, 30105), (608, 30090), (655, 30030), (689, 29997), (701, 29970), (753, 29874), (789, 29811), (820, 29757), (845, 29673), (846, 29667), (848, 29655), (872, 29559), (890, 29505), (891, 29502), (900, 29478),

Gene: StirfryIV_40 Start: 30812, Stop: 29424, Start Num: 247

Candidate Starts for StirfryIV_40:

(14, 31463), (97, 31109), (125, 31034), (Start: 247 @30812 has 139 MA's), (308, 30668), (Start: 310 @30662 has 1 MA's), (311, 30659), (389, 30545), (404, 30518), (430, 30458), (457, 30431), (462, 30428), (499, 30332), (511, 30290), (584, 30119), (600, 30098), (608, 30083), (655, 30023), (701, 29963), (753, 29867), (789, 29804), (820, 29750), (845, 29666), (846, 29660), (848, 29648), (872, 29552), (890, 29498), (891, 29495), (900, 29471),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 247

Candidate Starts for Stormbreaker8_40:

(92, 31557), (101, 31536), (Start: 247 @31269 has 139 MA's), (308, 31122), (Start: 310 @31116 has 1 MA's), (311, 31113), (346, 31053), (389, 30999), (404, 30972), (430, 30912), (457, 30885), (462, 30882), (499, 30786), (511, 30744), (584, 30573), (600, 30552), (701, 30417), (753, 30321), (820, 30204), (826, 30186), (845, 30120), (846, 30114), (848, 30102), (872, 30006), (890, 29952), (891,

29949), (900, 29925), (918, 29895),

Gene: Stormer_61 Start: 39106, Stop: 41022, Start Num: 57

Candidate Starts for Stormer_61:

(Start: 57 @39106 has 13 MA's), (Start: 58 @39109 has 58 MA's), (Start: 69 @39121 has 45 MA's), (81, 39169), (94, 39202), (158, 39361), (176, 39388), (182, 39397), (236, 39469), (286, 39589), (311, 39652), (367, 39742), (385, 39769), (463, 39898), (470, 39922), (484, 39964), (489, 39976), (495, 39991), (502, 40012), (508, 40033), (514, 40054), (534, 40111), (542, 40129), (557, 40165), (574, 40207), (604, 40267), (659, 40363), (660, 40366), (764, 40543), (792, 40594), (826, 40684), (836, 40720), (838, 40726), (850, 40780), (861, 40819), (888, 40921), (893, 40936), (902, 40957),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 247

Candidate Starts for Strathdee_41:

(14, 31770), (97, 31416), (125, 31341), (Start: 247 @31119 has 139 MA's), (308, 30975), (Start: 310 @30969 has 1 MA's), (311, 30966), (389, 30852), (404, 30825), (430, 30765), (457, 30738), (462, 30735), (499, 30639), (511, 30597), (584, 30426), (600, 30405), (625, 30378), (655, 30330), (701, 30270), (789, 30111), (820, 30057), (845, 29973), (846, 29967), (848, 29955), (872, 29859), (890, 29805), (891, 29802), (900, 29778),

Gene: Studio_40 Start: 27739, Stop: 25907, Start Num: 151

Candidate Starts for Studio_40:

(Start: 151 @27739 has 19 MA's), (184, 27682), (283, 27481), (354, 27346), (423, 27211), (437, 27184), (465, 27127), (468, 27112), (487, 27058), (516, 26962), (518, 26956), (524, 26941), (547, 26866), (552, 26848), (558, 26827), (566, 26809), (619, 26665), (625, 26653), (639, 26590), (676, 26518), (704, 26458), (713, 26437), (773, 26371), (776, 26362), (782, 26353), (791, 26335), (792, 26332), (811, 26296), (836, 26188), (839, 26179), (847, 26146), (853, 26119), (864, 26071),

Gene: Stuff_42 Start: 31323, Stop: 32717, Start Num: 224

Candidate Starts for Stuff_42:

(Start: 224 @31323 has 13 MA's), (Start: 228 @31326 has 3 MA's), (265, 31401), (270, 31425), (272, 31431), (284, 31455), (Start: 289 @31470 has 1 MA's), (290, 31473), (291, 31476), (325, 31545), (341, 31560), (370, 31596), (430, 31695), (449, 31716), (474, 31773), (523, 31896), (587, 32031), (605, 32058), (624, 32079), (686, 32157), (701, 32190), (705, 32199), (726, 32241), (770, 32307), (784, 32331), (793, 32349), (805, 32367), (827, 32421), (836, 32451), (849, 32508), (850, 32511), (863, 32559), (871, 32598), (876, 32613), (901, 32682), (909, 32700), (915, 32709),

Gene: Sucha_30 Start: 20665, Stop: 22092, Start Num: 222

Candidate Starts for Sucha_30:

(208, 20644), (Start: 222 @20665 has 17 MA's), (401, 21019), (403, 21022), (409, 21043), (464, 21130), (476, 21172), (608, 21454), (624, 21466), (646, 21487), (655, 21514), (685, 21541), (686, 21544), (698, 21571), (701, 21577), (717, 21613), (784, 21712), (819, 21775), (827, 21796), (844, 21850), (849, 21883), (853, 21895), (863, 21934), (870, 21970), (872, 21976), (876, 21988), (887, 22021), (898, 22051),

Gene: Sukkupi_71 Start: 54175, Stop: 52319, Start Num: 114

Candidate Starts for Sukkupi_71:

(10, 54592), (12, 54574), (18, 54499), (Start: 38 @54400 has 35 MA's), (Start: 114 @54175 has 3 MA's), (274, 53881), (286, 53848), (292, 53827), (316, 53773), (321, 53767), (323, 53764), (374, 53674), (376, 53671), (413, 53611), (492, 53455), (542, 53308), (580, 53200), (593, 53176), (649, 53074), (667, 53020), (683, 53005), (718, 52924), (735, 52885), (767, 52822), (779, 52783), (782, 52777), (796, 52747), (836, 52630), (851, 52567), (865, 52504), (870, 52486), (899, 52402),

Gene: SummitAcademy_56 Start: 40461, Stop: 38983, Start Num: 198

Candidate Starts for SummitAcademy_56:

(139, 40539), (167, 40488), (170, 40485), (Start: 198 @40461 has 49 MA's), (Start: 241 @40398 has 2 MA's), (255, 40377), (257, 40371), (Start: 266 @40344 has 1 MA's), (283, 40290), (299, 40254), (306, 40239), (362, 40143), (368, 40134), (389, 40113), (417, 40047), (462, 40011), (479, 39957), (481, 39951), (484, 39945), (512, 39867), (518, 39852), (559, 39753), (597, 39678), (608, 39654), (625, 39642), (648, 39621), (652, 39606), (653, 39597), (663, 39576), (694, 39537), (698, 39528), (705, 39513), (733, 39462), (770, 39390), (793, 39348), (794, 39345), (805, 39330), (839, 39234), (850, 39183), (858, 39153), (866, 39120), (884, 39063), (889, 39048),

Gene: SuperSonics_79 Start: 49055, Stop: 51088, Start Num: 62

Candidate Starts for SuperSonics_79:

(30, 48965), (Start: 62 @49055 has 3 MA's), (72, 49079), (90, 49142), (116, 49208), (136, 49262), (195, 49370), (218, 49403), (Start: 247 @49442 has 139 MA's), (261, 49466), (280, 49529), (286, 49547), (287, 49550), (292, 49568), (294, 49574), (328, 49643), (343, 49670), (352, 49682), (379, 49715), (428, 49817), (489, 49940), (500, 49970), (534, 50075), (542, 50093), (578, 50183), (580, 50186), (612, 50288), (626, 50327), (643, 50354), (649, 50366), (665, 50414), (676, 50432), (691, 50459), (697, 50471), (701, 50480), (782, 50618), (803, 50663), (835, 50768), (865, 50897), (875, 50930), (882, 50948), (900, 51002), (921, 51041),

Gene: SuperSulley_74 Start: 57198, Stop: 55111, Start Num: 38

Candidate Starts for SuperSulley_74:

(Start: 38 @57198 has 35 MA's), (76, 57078), (Start: 91 @57033 has 1 MA's), (93, 57030), (215, 56775), (274, 56667), (292, 56613), (323, 56550), (374, 56460), (376, 56457), (393, 56433), (413, 56397), (484, 56259), (492, 56241), (495, 56232), (500, 56217), (542, 56094), (568, 56010), (580, 55983), (593, 55959), (649, 55860), (667, 55806), (701, 55752), (718, 55710), (735, 55671), (771, 55602), (779, 55569), (796, 55533), (817, 55488), (820, 55476), (836, 55416), (838, 55410), (851, 55353), (899, 55188), (910, 55164),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 247

Candidate Starts for Superfresh_41:

(125, 31331), (Start: 247 @31109 has 139 MA's), (308, 30965), (Start: 310 @30959 has 1 MA's), (311, 30956), (389, 30842), (404, 30815), (430, 30755), (457, 30728), (462, 30725), (499, 30629), (511, 30587), (584, 30416), (600, 30395), (608, 30380), (625, 30368), (655, 30320), (701, 30260), (753, 30164), (789, 30101), (820, 30047), (845, 29963), (846, 29957), (848, 29945), (866, 29870), (872, 29849), (890, 29795), (891, 29792), (900, 29768),

Gene: SuperheroCarly_53 Start: 39596, Stop: 41566, Start Num: 48

Candidate Starts for SuperheroCarly_53:

(Start: 48 @39596 has 1 MA's), (49, 39611), (Start: 58 @39623 has 58 MA's), (72, 39650), (Start: 95 @39722 has 1 MA's), (115, 39776), (138, 39836), (150, 39863), (180, 39914), (210, 39956), (236, 39992), (274, 40079), (308, 40172), (316, 40187), (328, 40208), (399, 40310), (411, 40343), (424, 40367), (466, 40427), (495, 40514), (518, 40589), (557, 40679), (580, 40730), (582, 40733), (628, 40823), (649, 40841), (659, 40874), (691, 40928), (697, 40940), (705, 40958), (735, 41021), (779, 41105), (826, 41222), (836, 41270), (851, 41333), (870, 41417),

Gene: Suppi_29 Start: 22165, Stop: 23559, Start Num: 219

Candidate Starts for Suppi_29:

(Start: 219 @22165 has 74 MA's), (254, 22222), (Start: 289 @22327 has 1 MA's), (329, 22414), (401, 22498), (403, 22501), (404, 22504), (452, 22594), (470, 22630), (473, 22639), (475, 22648), (499, 22705), (505, 22723), (522, 22756), (529, 22768), (560, 22837), (576, 22864), (590, 22888), (624, 22930), (651, 22963), (655, 22978), (659, 22987), (722, 23077), (768, 23146), (784, 23173), (793, 23191), (803, 23203), (836, 23293), (838, 23299), (841, 23308), (843, 23314), (849, 23350), (870, 23437), (887, 23488), (903, 23527), (915, 23551),

Gene: Survivors_49 Start: 37834, Stop: 36344, Start Num: 198

Candidate Starts for Survivors_49:

(Start: 198 @37834 has 49 MA's), (257, 37744), (Start: 266 @37717 has 1 MA's), (279, 37675), (293, 37633), (299, 37627), (Start: 310 @37600 has 1 MA's), (362, 37519), (364, 37516), (368, 37510), (389, 37489), (417, 37423), (479, 37333), (484, 37321), (509, 37258), (512, 37243), (518, 37228), (569, 37111), (572, 37102), (611, 37024), (648, 36997), (651, 36985), (653, 36973), (685, 36934), (694, 36913), (695, 36910), (702, 36895), (733, 36823), (793, 36709), (819, 36664), (823, 36649), (831, 36619), (839, 36595), (850, 36544), (858, 36514), (876, 36448), (884, 36424), (895, 36391), (913, 36355),

Gene: Suzy_49 Start: 37573, Stop: 39624, Start Num: 69

Candidate Starts for Suzy_49:

(Start: 69 @37573 has 45 MA's), (97, 37660), (119, 37720), (128, 37744), (143, 37786), (Start: 273 @38008 has 28 MA's), (286, 38044), (369, 38200), (390, 38218), (399, 38239), (405, 38251), (434, 38311), (444, 38326), (463, 38344), (489, 38422), (495, 38437), (496, 38440), (508, 38479), (514, 38500), (580, 38659), (591, 38680), (593, 38683), (597, 38695), (613, 38743), (614, 38749), (615, 38755), (637, 38830), (650, 38872), (660, 38902), (714, 39025), (723, 39058), (727, 39070), (757, 39124), (792, 39196), (796, 39205), (824, 39280), (839, 39334), (850, 39385), (855, 39403), (865, 39451), (868, 39460), (870, 39472), (875, 39487), (889, 39529), (900, 39559),

Gene: SweatNTears_55 Start: 38970, Stop: 37492, Start Num: 198

Candidate Starts for SweatNTears_55:

(Start: 198 @38970 has 49 MA's), (255, 38883), (257, 38877), (283, 38796), (362, 38652), (364, 38649), (479, 38466), (481, 38460), (484, 38454), (512, 38376), (559, 38262), (572, 38235), (584, 38211), (625, 38151), (653, 38106), (663, 38085), (694, 38046), (702, 38028), (766, 37911), (793, 37863), (794, 37860), (805, 37845), (839, 37749), (845, 37728), (850, 37698),

Gene: Symere_40 Start: 30799, Stop: 29411, Start Num: 247

Candidate Starts for Symere_40:

(14, 31450), (97, 31096), (125, 31021), (Start: 247 @30799 has 139 MA's), (308, 30655), (Start: 310 @30649 has 1 MA's), (311, 30646), (381, 30541), (389, 30532), (404, 30505), (430, 30445), (457, 30418), (462, 30415), (499, 30319), (511, 30277), (584, 30106), (600, 30085), (608, 30070), (655, 30010), (701, 29950), (753, 29854), (789, 29791), (820, 29737), (845, 29653), (846, 29647), (848, 29635), (890, 29485), (891, 29482), (900, 29458),

Gene: TMaxx_39 Start: 26999, Stop: 25191, Start Num: 151

Candidate Starts for TMaxx_39:

(130, 27044), (Start: 151 @26999 has 19 MA's), (184, 26939), (231, 26876), (283, 26738), (354, 26609), (404, 26525), (465, 26387), (524, 26201), (552, 26108), (558, 26087), (625, 25916), (630, 25901), (639, 25853), (686, 25784), (689, 25778), (693, 25763), (713, 25724), (735, 25715), (772, 25661), (773, 25658), (782, 25640), (791, 25622), (839, 25466), (847, 25433), (853, 25406), (858, 25385), (889, 25268), (910, 25217),

Gene: Talia1610_101 Start: 80103, Stop: 81941, Start Num: 148

Candidate Starts for Talia1610_101:

(Start: 148 @80103 has 12 MA's), (197, 80184), (245, 80262), (280, 80358), (329, 80418), (346, 80448), (408, 80568), (433, 80619), (463, 80679), (577, 81018), (602, 81075), (610, 81096), (625, 81141), (638, 81198), (639, 81204), (651, 81237), (653, 81249), (659, 81261), (682, 81306), (697, 81345), (754, 81402), (759, 81408), (773, 81441), (808, 81510), (832, 81594), (857, 81711), (912, 81885), (930, 81927),

Gene: Tarnish_57 Start: 41046, Stop: 39568, Start Num: 198

Candidate Starts for Tarnish_57:

(Start: 198 @41046 has 49 MA's), (Start: 241 @40983 has 2 MA's), (255, 40962), (257, 40956), (Start: 266 @40929 has 1 MA's), (283, 40875), (299, 40839), (306, 40824), (362, 40728), (368, 40719), (389, 40698), (417, 40632), (462, 40596), (479, 40542), (481, 40536), (484, 40530), (512, 40452), (518, 40437), (559, 40338), (597, 40263), (608, 40239), (625, 40227), (648, 40206), (652, 40191), (653, 40182), (663, 40161), (694, 40122), (698, 40113), (705, 40098), (733, 40047), (770, 39975), (793, 39933), (794, 39930), (805, 39915), (839, 39819), (850, 39768), (858, 39738), (866, 39705), (884, 39648), (889, 39633),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 247

Candidate Starts for TatarkaPM_41:

(14, 31775), (97, 31421), (125, 31346), (Start: 247 @31124 has 139 MA's), (308, 30980), (Start: 310 @30974 has 1 MA's), (311, 30971), (389, 30857), (404, 30830), (430, 30770), (457, 30743), (462, 30740), (499, 30644), (511, 30602), (580, 30440), (584, 30431), (600, 30410), (608, 30395), (625, 30383), (655, 30335), (701, 30275), (753, 30179), (789, 30116), (820, 30062), (845, 29978), (846, 29972), (848, 29960), (872, 29864), (890, 29810), (891, 29807), (900, 29783),

Gene: TattModd_29 Start: 22150, Stop: 23550, Start Num: 219

Candidate Starts for TattModd_29:

(Start: 219 @22150 has 74 MA's), (254, 22213), (Start: 289 @22318 has 1 MA's), (290, 22321), (329, 22405), (359, 22438), (401, 22489), (404, 22495), (449, 22576), (451, 22579), (452, 22585), (470, 22621), (475, 22639), (476, 22642), (489, 22675), (499, 22696), (505, 22714), (522, 22747), (560, 22828), (576, 22855), (597, 22885), (602, 22894), (624, 22921), (651, 22954), (655, 22969), (698, 23023), (707, 23044), (712, 23056), (722, 23068), (838, 23290), (841, 23299), (843, 23305), (849, 23341), (864, 23401), (870, 23428), (903, 23518),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 247

Candidate Starts for Teagan_41:

(14, 31765), (97, 31411), (125, 31336), (Start: 247 @31114 has 139 MA's), (308, 30970), (Start: 310 @30964 has 1 MA's), (311, 30961), (389, 30847), (404, 30820), (430, 30760), (457, 30733), (462, 30730), (499, 30634), (511, 30592), (584, 30421), (600, 30400), (625, 30373), (655, 30325), (701, 30265), (789, 30106), (820, 30052), (845, 29968), (846, 29962), (848, 29950), (872, 29854), (890, 29800), (891, 29797), (900, 29773),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 273

Candidate Starts for Teal_57:

(94, 53416), (142, 53287), (191, 53200), (Start: 194 @53197 has 3 MA's), (Start: 273 @53068 has 28 MA's), (288, 53023), (329, 52933), (330, 52930), (333, 52924), (346, 52903), (395, 52840), (453, 52732), (465, 52714), (499, 52627), (504, 52612), (521, 52570), (557, 52489), (581, 52441), (603, 52399), (609, 52381), (623, 52378), (648, 52351), (665, 52300), (689, 52264), (711, 52213), (756, 52129), (765, 52108), (844, 51952), (845, 51946), (847, 51934), (878, 51808), (925, 51694),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 117

Candidate Starts for Teatealatte_58:

(Start: 117 @53221 has 9 MA's), (Start: 121 @53209 has 2 MA's), (227, 53026), (Start: 273 @52936 has 28 MA's), (277, 52927), (288, 52891), (297, 52867), (301, 52858), (306, 52849), (329, 52801), (334, 52789), (342, 52777), (387, 52720), (395, 52705), (396, 52702), (404, 52684), (420, 52648), (422, 52645), (485, 52516), (488, 52513), (504, 52477), (505, 52474), (511, 52456), (517, 52447), (521, 52435), (541, 52387), (557, 52354), (581, 52306), (594, 52282), (648, 52216), (689, 52117), (736, 52018), (754, 51985), (756, 51982), (805, 51916), (826, 51865), (827, 51862), (844, 51805), (847, 51787), (874, 51670), (875, 51667), (880, 51655), (925, 51556), (931, 51535),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 247

Candidate Starts for TeddyBear_40:

(125, 31038), (Start: 247 @30816 has 139 MA's), (308, 30672), (Start: 310 @30666 has 1 MA's), (311, 30663), (389, 30549), (404, 30522), (430, 30462), (457, 30435), (462, 30432), (498, 30339), (499, 30336), (511, 30294), (584, 30123), (600, 30102), (608, 30087), (625, 30075), (655, 30027), (701, 29967), (753, 29871), (789, 29808), (820, 29754), (845, 29670), (846, 29664), (848, 29652), (866, 29577), (872, 29556), (890, 29502), (891, 29499), (900, 29475),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 69

Candidate Starts for Tedro_40:

(Start: 69 @25407 has 45 MA's), (85, 25470), (98, 25491), (116, 25545), (218, 25722), (Start: 252 @25767 has 1 MA's), (314, 25941), (323, 25950), (374, 26040), (406, 26097), (486, 26283), (534, 26418), (540, 26430), (556, 26463), (574, 26508), (649, 26592), (705, 26709), (826, 26982), (836, 27018), (837, 27021), (850, 27081), (871, 27171), (882, 27201), (895, 27243), (923, 27294),

Gene: Teech_58 Start: 53022, Stop: 51319, Start Num: 117

Candidate Starts for Teech_58:

(Start: 117 @53022 has 9 MA's), (Start: 121 @53010 has 2 MA's), (227, 52827), (Start: 273 @52737 has 28 MA's), (277, 52728), (288, 52692), (297, 52668), (301, 52659), (306, 52650), (329, 52602), (342, 52578), (395, 52506), (404, 52485), (420, 52449), (422, 52446), (485, 52317), (488, 52314), (504, 52278), (505, 52275), (511, 52257), (517, 52248), (521, 52236), (541, 52188), (557, 52155), (581, 52107), (594, 52083), (648, 52017), (689, 51918), (736, 51819), (741, 51810), (754, 51786), (756, 51783), (805, 51717), (826, 51666), (827, 51663), (844, 51606), (847, 51588), (874, 51471), (875, 51468), (880, 51456), (925, 51357), (931, 51336),

Gene: Temper16_26 Start: 21732, Stop: 23129, Start Num: 219

Candidate Starts for Temper16_26:

(Start: 219 @21732 has 74 MA's), (254, 21792), (283, 21879), (Start: 289 @21897 has 1 MA's), (290, 21900), (329, 21984), (334, 21990), (359, 22017), (401, 22068), (404, 22074), (424, 22125), (430, 22134), (449, 22155), (452, 22164), (470, 22200), (476, 22221), (489, 22254), (499, 22275), (505, 22293), (506, 22299), (522, 22326), (529, 22338), (531, 22353), (560, 22407), (590, 22458), (597, 22464), (602, 22473), (605, 22479), (624, 22500), (651, 22533), (655, 22548), (659, 22557), (741, 22680), (770, 22719), (784, 22743), (791, 22755), (836, 22863), (838, 22869), (841, 22878), (843, 22884), (849, 22920), (870, 23007), (903, 23097), (915, 23121),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 247

Candidate Starts for Tenda_40:

(125, 31036), (Start: 247 @30814 has 139 MA's), (308, 30670), (Start: 310 @30664 has 1 MA's), (311, 30661), (389, 30547), (404, 30520), (430, 30460), (457, 30433), (462, 30430), (499, 30334), (511, 30292), (584, 30121), (600, 30100), (608, 30085), (655, 30025), (701, 29965), (753, 29869), (789, 29806), (820, 29752), (845, 29668), (846, 29662), (848, 29650), (872, 29554), (890, 29500), (891, 29497), (900, 29473),

Gene: Terapin_51 Start: 36616, Stop: 38670, Start Num: 69

Candidate Starts for Terapin_51:

(Start: 69 @36616 has 45 MA's), (74, 36640), (97, 36703), (128, 36787), (143, 36829), (Start: 273 @37051 has 28 MA's), (286, 37087), (318, 37162), (339, 37201), (369, 37243), (390, 37261), (399, 37282), (405, 37294), (434, 37354), (444, 37369), (463, 37387), (489, 37465), (495, 37480), (496, 37483), (508, 37522), (514, 37543), (556, 37645), (580, 37702), (591, 37723), (593, 37726), (597, 37738), (613, 37786), (614, 37792), (632, 37840), (637, 37873), (643, 37897), (650, 37915), (660, 37945), (714, 38068), (723, 38101), (727, 38113), (735, 38128), (757, 38167), (779, 38212), (792, 38239), (824, 38323), (842, 38386), (850, 38428), (853, 38437), (855, 38446), (865, 38494), (868, 38503), (870, 38515), (875, 38530), (889, 38572),

Gene: Theresita_31 Start: 21253, Stop: 22665, Start Num: 222

Candidate Starts for Theresita_31:

(Start: 222 @21253 has 17 MA's), (286, 21397), (291, 21415), (336, 21505), (438, 21664), (451, 21682), (452, 21688), (464, 21703), (470, 21724), (476, 21745), (569, 21955), (587, 21991), (624, 22039), (646, 22060), (651, 22072), (655, 22087), (685, 22114), (691, 22129), (717, 22186), (770, 22261), (784, 22285), (803, 22315), (811, 22327), (827, 22369), (836, 22399), (849, 22456), (853, 22468), (872, 22549), (873, 22552), (882, 22576), (887, 22594), (898, 22624),

Gene: Thompson_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for Thompson_41:

(14, 31772), (97, 31418), (125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (584, 30428), (600, 30407), (625, 30380), (655, 30332), (701, 30272), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (866, 29882), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for Thorongil_41:

(175, 31220), (Start: 178 @31217 has 1 MA's), (179, 31214), (237, 31130), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (584, 30428), (600, 30407), (608, 30392), (625, 30380), (655, 30332), (701, 30272), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (866, 29882), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: Thoth_53 Start: 39727, Stop: 41670, Start Num: 58

Candidate Starts for Thoth_53:

(Start: 58 @39727 has 58 MA's), (72, 39754), (Start: 95 @39826 has 1 MA's), (115, 39880), (138, 39940), (145, 39958), (150, 39967), (180, 40018), (210, 40060), (236, 40096), (274, 40183), (308, 40276), (316, 40291), (328, 40312), (399, 40414), (411, 40447), (424, 40471), (466, 40531), (495, 40618), (518, 40693), (557, 40783), (580, 40834), (582, 40837), (628, 40927), (649, 40945), (659, 40978), (691, 41032), (697, 41044), (705, 41062), (735, 41125), (779, 41209), (826, 41326), (836, 41374), (851, 41437), (870, 41521),

Gene: Thumb_62 Start: 46085, Stop: 48142, Start Num: 58

Candidate Starts for Thumb_62:

(Start: 58 @46085 has 58 MA's), (79, 46145), (80, 46148), (Start: 114 @46241 has 3 MA's), (119, 46253), (127, 46274), (186, 46397), (188, 46400), (195, 46409), (218, 46442), (226, 46463), (Start: 247 @46511 has 139 MA's), (286, 46616), (292, 46637), (294, 46643), (321, 46697), (428, 46883), (434, 46895), (455, 46913), (463, 46928), (466, 46934), (580, 47252), (582, 47255), (604, 47300), (643, 47351), (649, 47363), (691, 47453), (697, 47465), (711, 47498), (723, 47522), (725, 47531), (782, 47621), (798, 47654), (835, 47765), (836, 47768), (837, 47771), (838, 47774), (850, 47828), (865, 47894), (870, 47912), (933, 48089),

Gene: Tillicus_56 Start: 39985, Stop: 41907, Start Num: 59

Candidate Starts for Tillicus_56:

(21, 39862), (25, 39883), (31, 39904), (45, 39934), (Start: 50 @39967 has 1 MA's), (Start: 57 @39979 has 13 MA's), (Start: 59 @39985 has 1 MA's), (Start: 69 @40003 has 45 MA's), (72, 40015), (81, 40051), (94, 40084), (96, 40087), (Start: 114 @40135 has 3 MA's), (120, 40153), (158, 40243), (168, 40261), (176, 40270), (182, 40279), (236, 40351), (286, 40471), (287, 40474), (311, 40534), (324, 40552), (367, 40624), (385, 40651), (466, 40786), (470, 40804), (484, 40846), (493, 40867), (495, 40873), (508, 40915), (514, 40936), (521, 40957), (534, 40993), (557, 41050), (562, 41062), (574, 41092), (578, 41101), (604, 41152), (659, 41248), (660, 41251), (729, 41362), (755, 41410), (779, 41452), (792, 41479), (824, 41563), (847, 41647), (850, 41665), (856, 41689), (861, 41704), (870,

41752), (875, 41767), (888, 41806), (893, 41821), (902, 41842), (929, 41899),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 247

Candidate Starts for TinSulphur_42:

(14, 31771), (97, 31417), (125, 31342), (Start: 247 @31120 has 139 MA's), (308, 30976), (Start: 310 @30970 has 1 MA's), (311, 30967), (389, 30853), (404, 30826), (430, 30766), (457, 30739), (462, 30736), (499, 30640), (511, 30598), (580, 30436), (584, 30427), (600, 30406), (608, 30391), (625, 30379), (655, 30331), (701, 30271), (753, 30175), (789, 30112), (820, 30058), (845, 29974), (846, 29968), (848, 29956), (872, 29860), (890, 29806), (891, 29803), (900, 29779),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 36

Candidate Starts for TinyMiny_42:

(16, 26383), (Start: 36 @26527 has 1 MA's), (68, 26617), (Start: 70 @26623 has 6 MA's), (116, 26770), (124, 26788), (127, 26797), (218, 26947), (280, 27073), (314, 27163), (323, 27172), (374, 27262), (400, 27304), (470, 27466), (540, 27652), (550, 27670), (556, 27685), (580, 27742), (643, 27802), (678, 27874), (742, 28012), (775, 28078), (781, 28108), (817, 28186), (837, 28264), (850, 28324), (861, 28363), (871, 28414), (879, 28432), (924, 28540),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 250

Candidate Starts for Tinyman4_39:

(Start: 250 @29477 has 24 MA's), (346, 29264), (389, 29201), (401, 29180), (457, 29087), (462, 29084), (469, 29063), (475, 29042), (511, 28946), (584, 28775), (601, 28751), (608, 28739), (625, 28727), (642, 28715), (645, 28712), (651, 28694), (655, 28679), (701, 28619), (706, 28607), (711, 28595), (753, 28523), (768, 28493), (789, 28460), (836, 28352), (839, 28343), (844, 28328), (845, 28322), (846, 28316), (848, 28304), (872, 28208), (875, 28199), (885, 28169), (900, 28127),

Gene: Tolls_54 Start: 38563, Stop: 37085, Start Num: 198

Candidate Starts for Tolls_54:

(Start: 198 @38563 has 49 MA's), (257, 38470), (Start: 266 @38443 has 1 MA's), (290, 38368), (Start: 310 @38326 has 1 MA's), (362, 38245), (462, 38113), (479, 38059), (484, 38047), (512, 37969), (559, 37855), (572, 37828), (584, 37804), (653, 37699), (663, 37678), (694, 37639), (702, 37621), (705, 37615), (766, 37504), (793, 37456), (805, 37438), (839, 37342), (845, 37321), (850, 37291),

Gene: Tongui_40 Start: 25537, Stop: 27444, Start Num: 69

Candidate Starts for Tongui_40:

(19, 25363), (Start: 69 @25537 has 45 MA's), (85, 25600), (98, 25621), (116, 25675), (143, 25735), (209, 25837), (218, 25852), (Start: 252 @25897 has 1 MA's), (314, 26071), (323, 26080), (374, 26170), (376, 26173), (406, 26227), (486, 26413), (524, 26521), (534, 26548), (540, 26560), (649, 26722), (705, 26839), (837, 27151), (850, 27211), (871, 27301), (882, 27331), (895, 27373), (923, 27424),

Gene: Tracker_72 Start: 55556, Stop: 53490, Start Num: 38

Candidate Starts for Tracker_72:

(9, 55760), (10, 55748), (12, 55730), (Start: 38 @55556 has 35 MA's), (Start: 82 @55418 has 2 MA's), (87, 55394), (182, 55190), (215, 55145), (274, 55037), (321, 54923), (323, 54920), (374, 54830), (376, 54827), (413, 54767), (484, 54629), (492, 54611), (500, 54587), (542, 54464), (580, 54359), (649, 54233), (667, 54179), (731, 54053), (735, 54044), (748, 54020), (779, 53948), (782, 53942), (796, 53912), (820, 53855), (836, 53795), (851, 53732), (870, 53651),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 117

Candidate Starts for Tredge_57:

(Start: 117 @53221 has 9 MA's), (Start: 121 @53209 has 2 MA's), (227, 53026), (Start: 273 @52936 has 28 MA's), (277, 52927), (288, 52891), (297, 52867), (301, 52858), (306, 52849), (329, 52801), (334, 52789), (342, 52777), (387, 52720), (395, 52705), (396, 52702), (404, 52684), (420, 52648),

(422, 52645), (485, 52516), (488, 52513), (504, 52477), (505, 52474), (511, 52456), (517, 52447), (521, 52435), (541, 52387), (557, 52354), (581, 52306), (594, 52282), (648, 52216), (689, 52117), (736, 52018), (754, 51985), (756, 51982), (805, 51916), (826, 51865), (827, 51862), (844, 51805), (847, 51787), (874, 51670), (875, 51667), (880, 51655), (925, 51556), (931, 51535),

Gene: TripleC_39 Start: 29350, Stop: 27542, Start Num: 151

Candidate Starts for TripleC_39:

(130, 29395), (Start: 151 @29350 has 19 MA's), (184, 29290), (260, 29167), (283, 29089), (348, 28972), (354, 28960), (404, 28876), (465, 28738), (524, 28552), (552, 28459), (558, 28438), (602, 28333), (625, 28267), (630, 28252), (639, 28204), (686, 28135), (688, 28132), (689, 28129), (693, 28114), (713, 28075), (735, 28066), (754, 28048), (772, 28012), (773, 28009), (782, 27991), (791, 27973), (792, 27970), (809, 27937), (839, 27817), (847, 27784), (853, 27757), (864, 27709), (889, 27619), (910, 27568),

Gene: Triscuit_58 Start: 36727, Stop: 38280, Start Num: 196

Candidate Starts for Triscuit_58:

(Start: 196 @36727 has 1 MA's), (Start: 198 @36730 has 49 MA's), (257, 36826), (267, 36856), (279, 36895), (288, 36922), (293, 36937), (315, 36982), (322, 36991), (341, 37021), (402, 37105), (440, 37189), (447, 37198), (450, 37201), (499, 37321), (504, 37336), (530, 37423), (569, 37513), (651, 37636), (653, 37648), (710, 37735), (760, 37834), (766, 37852), (831, 37990), (895, 38218), (899, 38227), (900, 38230),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 229

Candidate Starts for Trogglehumper_76:

(157, 59828), (Start: 202 @59762 has 10 MA's), (Start: 229 @59717 has 1 MA's), (278, 59600), (288, 59567), (309, 59525), (311, 59519), (329, 59495), (371, 59429), (379, 59420), (382, 59417), (412, 59354), (432, 59315), (469, 59249), (498, 59183), (504, 59165), (507, 59153), (517, 59135), (536, 59087), (538, 59081), (581, 59003), (603, 58961), (609, 58943), (655, 58886), (659, 58877), (732, 58751), (754, 58709), (756, 58706), (765, 58685), (778, 58652), (800, 58595), (847, 58445), (852, 58421), (864, 58370), (889, 58280), (905, 58241), (923, 58220), (926, 58208), (927, 58205), (931, 58193),

Gene: Troje_55 Start: 38986, Stop: 37508, Start Num: 198

Candidate Starts for Troje_55:

(Start: 198 @38986 has 49 MA's), (255, 38899), (257, 38893), (272, 38842), (290, 38791), (299, 38776), (346, 38692), (362, 38668), (368, 38659), (462, 38536), (479, 38482), (481, 38476), (484, 38470), (499, 38440), (512, 38392), (559, 38278), (572, 38251), (584, 38227), (648, 38146), (653, 38122), (663, 38101), (694, 38062), (702, 38044), (705, 38038), (766, 37927), (770, 37921), (793, 37879), (805, 37861), (836, 37774), (839, 37765), (845, 37744), (850, 37714), (858, 37684), (866, 37651), (895, 37561),

Gene: Troll4_53 Start: 39859, Stop: 41802, Start Num: 58

Candidate Starts for Troll4_53:

(Start: 58 @39859 has 58 MA's), (72, 39886), (Start: 95 @39958 has 1 MA's), (115, 40012), (138, 40072), (145, 40090), (150, 40099), (180, 40150), (210, 40192), (236, 40228), (274, 40315), (308, 40408), (316, 40423), (328, 40444), (399, 40546), (411, 40579), (424, 40603), (466, 40663), (495, 40750), (518, 40825), (557, 40915), (580, 40966), (582, 40969), (628, 41059), (649, 41077), (659, 41110), (691, 41164), (697, 41176), (705, 41194), (735, 41257), (779, 41341), (826, 41458), (836, 41506), (851, 41569), (870, 41653),

Gene: Troy_45 Start: 36746, Stop: 38122, Start Num: 247

Candidate Starts for Troy_45:

(Start: 247 @36746 has 139 MA's), (274, 36815), (281, 36833), (320, 36926), (357, 36986), (360, 36992), (362, 36995), (457, 37115), (467, 37133), (511, 37250), (564, 37388), (584, 37427), (602, 37460), (605, 37466), (611, 37481), (651, 37520), (694, 37580), (705, 37604), (734, 37640), (783, 37709), (785, 37715), (828, 37796), (851, 37892), (854, 37904), (857, 37916), (870, 37973), (872, 37979), (876, 37991), (886, 38021), (906, 38072),

Gene: TurboVicky_33 Start: 23252, Stop: 24679, Start Num: 222

Candidate Starts for TurboVicky_33:

(192, 23210), (Start: 222 @23252 has 17 MA's), (377, 23570), (464, 23717), (470, 23738), (587, 24005), (624, 24053), (646, 24074), (686, 24131), (701, 24164), (717, 24200), (772, 24278), (784, 24299), (826, 24380), (827, 24383), (849, 24470), (853, 24482), (863, 24521), (870, 24557), (872, 24563), (876, 24575), (898, 24638),

Gene: Turuncu_75 Start: 56841, Stop: 54784, Start Num: 38

Candidate Starts for Turuncu_75:

(7, 57126), (12, 57009), (15, 56991), (Start: 38 @56841 has 35 MA's), (274, 56328), (292, 56274), (308, 56238), (323, 56211), (368, 56133), (374, 56121), (413, 56058), (416, 56052), (471, 55959), (484, 55920), (492, 55902), (542, 55755), (553, 55722), (565, 55692), (568, 55686), (580, 55659), (649, 55536), (683, 55467), (691, 55449), (735, 55344), (740, 55335), (771, 55275), (782, 55236), (796, 55206), (804, 55188), (820, 55149), (836, 55089), (845, 55059), (851, 55026), (862, 54984), (919, 54828),

Gene: TwoBits_39 Start: 29510, Stop: 28083, Start Num: 250

Candidate Starts for TwoBits_39:

(Start: 250 @29510 has 24 MA's), (263, 29480), (265, 29474), (Start: 289 @29402 has 1 MA's), (309, 29363), (Start: 310 @29360 has 1 MA's), (311, 29357), (346, 29297), (457, 29120), (462, 29117), (497, 29024), (518, 28955), (557, 28862), (584, 28805), (625, 28757), (642, 28745), (651, 28724), (686, 28643), (701, 28610), (728, 28556), (732, 28550), (753, 28514), (755, 28511), (789, 28451), (836, 28343), (839, 28334), (844, 28319), (845, 28313), (848, 28295), (875, 28190), (900, 28118),

Gene: Typher_35 Start: 23381, Stop: 24808, Start Num: 222

Candidate Starts for Typher_35:

(192, 23339), (Start: 222 @23381 has 17 MA's), (377, 23699), (430, 23801), (464, 23846), (470, 23867), (587, 24134), (624, 24182), (646, 24203), (686, 24260), (701, 24293), (717, 24329), (772, 24407), (784, 24428), (826, 24509), (827, 24512), (849, 24599), (853, 24611), (863, 24650), (870, 24686), (876, 24704), (898, 24767),

Gene: Typhonomachy_52 Start: 38552, Stop: 37074, Start Num: 198

Candidate Starts for Typhonomachy_52:

(Start: 198 @38552 has 49 MA's), (255, 38465), (257, 38459), (283, 38378), (290, 38357), (364, 38231), (479, 38048), (481, 38042), (484, 38036), (512, 37958), (559, 37844), (572, 37817), (584, 37793), (625, 37733), (653, 37688), (663, 37667), (694, 37628), (702, 37610), (766, 37493), (793, 37445), (794, 37442), (805, 37427), (839, 37331), (845, 37310), (850, 37280),

Gene: UNTPL_44 Start: 31380, Stop: 32774, Start Num: 224

Candidate Starts for UNTPL_44:

(Start: 224 @31380 has 13 MA's), (Start: 228 @31383 has 3 MA's), (265, 31458), (270, 31482), (284, 31512), (Start: 289 @31527 has 1 MA's), (341, 31617), (370, 31653), (430, 31752), (435, 31761), (474, 31830), (523, 31953), (587, 32088), (605, 32115), (624, 32136), (686, 32214), (701, 32247), (705, 32256), (726, 32298), (770, 32364), (784, 32388), (793, 32406), (805, 32424), (827, 32478), (836, 32508), (849, 32565), (850, 32568), (863, 32616), (871, 32655), (876, 32670), (901, 32739), (909, 32757), (915, 32766),

Gene: Urla_26 Start: 21745, Stop: 23142, Start Num: 219

Candidate Starts for Urla_26:

(Start: 219 @21745 has 74 MA's), (254, 21805), (Start: 289 @21910 has 1 MA's), (329, 21997), (359, 22030), (401, 22081), (404, 22087), (449, 22168), (452, 22177), (470, 22213), (475, 22231), (476, 22234), (489, 22267), (499, 22288), (533, 22369), (560, 22420), (576, 22447), (597, 22477), (602, 22486), (611, 22507), (624, 22513), (651, 22546), (655, 22561), (659, 22570), (701, 22621), (714, 22651), (770, 22732), (793, 22774), (816, 22807), (834, 22870), (841, 22891), (843, 22897), (846, 22912), (849, 22933), (870, 23020), (889, 23077), (903, 23110),

Gene: Vallejo_29 Start: 22089, Stop: 23489, Start Num: 219

Candidate Starts for Vallejo_29:

(Start: 219 @22089 has 74 MA's), (254, 22152), (Start: 289 @22257 has 1 MA's), (290, 22260), (329, 22344), (359, 22377), (401, 22428), (404, 22434), (449, 22515), (451, 22518), (452, 22524), (470, 22560), (475, 22578), (476, 22581), (489, 22614), (499, 22635), (505, 22653), (522, 22686), (560, 22767), (576, 22794), (597, 22824), (602, 22833), (624, 22860), (651, 22893), (655, 22908), (698, 22962), (707, 22983), (712, 22995), (722, 23007), (838, 23229), (841, 23238), (843, 23244), (849, 23280), (864, 23340), (870, 23367), (903, 23457),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 247

Candidate Starts for Velene_41:

(14, 31770), (97, 31416), (125, 31341), (Start: 247 @31119 has 139 MA's), (308, 30975), (Start: 310 @30969 has 1 MA's), (311, 30966), (389, 30852), (404, 30825), (430, 30765), (457, 30738), (462, 30735), (499, 30639), (511, 30597), (584, 30426), (600, 30405), (625, 30378), (655, 30330), (701, 30270), (789, 30111), (820, 30057), (845, 29973), (846, 29967), (848, 29955), (872, 29859), (890, 29805), (891, 29802), (900, 29778),

Gene: Vine_59 Start: 41084, Stop: 39606, Start Num: 198

Candidate Starts for Vine_59:

(139, 41162), (167, 41111), (170, 41108), (Start: 198 @41084 has 49 MA's), (Start: 241 @41021 has 2 MA's), (255, 41000), (257, 40994), (Start: 266 @40967 has 1 MA's), (283, 40913), (299, 40877), (306, 40862), (362, 40766), (368, 40757), (389, 40736), (417, 40670), (462, 40634), (479, 40580), (481, 40574), (484, 40568), (512, 40490), (518, 40475), (559, 40376), (597, 40301), (608, 40277), (625, 40265), (648, 40244), (652, 40229), (653, 40220), (663, 40199), (694, 40160), (698, 40151), (705, 40136), (733, 40085), (768, 40016), (770, 40013), (793, 39971), (805, 39953), (839, 39857), (850, 39806), (858, 39776), (866, 39743), (884, 39686), (889, 39671),

Gene: Virizion_75 Start: 50499, Stop: 48628, Start Num: 69

Candidate Starts for Virizion_75:

(Start: 56 @50514 has 8 MA's), (Start: 69 @50499 has 45 MA's), (85, 50436), (Start: 91 @50427 has 1 MA's), (134, 50322), (Start: 151 @50283 has 19 MA's), (160, 50259), (218, 50184), (236, 50160), (295, 50001), (314, 49962), (323, 49953), (387, 49845), (442, 49737), (466, 49689), (502, 49584), (517, 49533), (540, 49473), (569, 49407), (578, 49386), (580, 49383), (659, 49278), (663, 49269), (667, 49257), (720, 49158), (792, 49041), (798, 49029), (811, 49002), (837, 48912), (842, 48897), (853, 48843), (865, 48786), (902, 48678), (910, 48660),

Gene: Visconti_54 Start: 39739, Stop: 41682, Start Num: 58

Candidate Starts for Visconti_54:

(Start: 58 @39739 has 58 MA's), (72, 39766), (Start: 95 @39838 has 1 MA's), (115, 39892), (138, 39952), (145, 39970), (150, 39979), (180, 40030), (210, 40072), (236, 40108), (274, 40195), (308, 40288), (316, 40303), (328, 40324), (399, 40426), (411, 40459), (424, 40483), (466, 40543), (495, 40630), (518, 40705), (557, 40795), (580, 40846), (582, 40849), (628, 40939), (649, 40957), (659, 40990), (691, 41044), (697, 41056), (705, 41074), (735, 41137), (779, 41221), (826, 41338), (836, 41386), (851, 41449), (870, 41533),

Gene: Vispistious_41 Start: 31121, Stop: 29733, Start Num: 247

Candidate Starts for Vispistious_41:

(14, 31772), (97, 31418), (125, 31343), (Start: 247 @31121 has 139 MA's), (308, 30977), (Start: 310 @30971 has 1 MA's), (311, 30968), (389, 30854), (404, 30827), (430, 30767), (457, 30740), (462, 30737), (499, 30641), (511, 30599), (584, 30428), (600, 30407), (625, 30380), (655, 30332), (701, 30272), (789, 30113), (820, 30059), (845, 29975), (846, 29969), (848, 29957), (872, 29861), (890, 29807), (891, 29804), (900, 29780),

Gene: Vitaenoi_57 Start: 53928, Stop: 52234, Start Num: 117

Candidate Starts for Vitaenoi_57:

(Start: 117 @53928 has 9 MA's), (Start: 121 @53916 has 2 MA's), (Start: 178 @53796 has 1 MA's), (209, 53763), (227, 53733), (277, 53634), (288, 53598), (297, 53574), (301, 53565), (306, 53556), (329, 53508), (330, 53505), (333, 53499), (334, 53496), (412, 53373), (422, 53352), (461, 53292), (488, 53220), (499, 53199), (504, 53184), (505, 53181), (507, 53172), (581, 53013), (606, 52962), (623, 52950), (625, 52944), (648, 52923), (663, 52878), (689, 52833), (707, 52791), (736, 52734), (752, 52704), (754, 52701), (756, 52698), (789, 52644), (844, 52521), (847, 52503), (874, 52386), (875, 52383), (880, 52371), (931, 52251),

Gene: Vulture_26 Start: 21745, Stop: 23139, Start Num: 219

Candidate Starts for Vulture_26:

(Start: 219 @21745 has 74 MA's), (254, 21802), (283, 21889), (Start: 289 @21907 has 1 MA's), (290, 21910), (329, 21994), (359, 22027), (401, 22078), (404, 22084), (430, 22144), (452, 22174), (470, 22210), (475, 22228), (489, 22264), (499, 22285), (505, 22303), (506, 22309), (522, 22336), (560, 22417), (576, 22444), (590, 22468), (602, 22483), (624, 22510), (651, 22543), (655, 22558), (768, 22726), (784, 22753), (791, 22765), (803, 22783), (836, 22873), (838, 22879), (843, 22894), (844, 22897), (849, 22930), (864, 22990), (870, 23017), (889, 23074), (903, 23107), (915, 23131),

Gene: WaddleDee_88 Start: 75744, Stop: 77588, Start Num: 148

Candidate Starts for WaddleDee_88:

(Start: 148 @75744 has 12 MA's), (280, 76017), (354, 76125), (396, 76191), (423, 76260), (427, 76269), (465, 76344), (567, 76653), (586, 76698), (602, 76737), (610, 76758), (625, 76803), (638, 76860), (639, 76866), (651, 76899), (653, 76911), (659, 76923), (735, 77040), (739, 77046), (791, 77136), (808, 77169), (832, 77253), (851, 77346), (857, 77370), (908, 77538), (910, 77541),

Gene: WaldoWhy_55 Start: 39836, Stop: 41779, Start Num: 58

Candidate Starts for WaldoWhy_55:

(Start: 58 @39836 has 58 MA's), (72, 39863), (Start: 95 @39935 has 1 MA's), (115, 39989), (138, 40049), (145, 40067), (150, 40076), (180, 40127), (210, 40169), (236, 40205), (274, 40292), (308, 40385), (316, 40400), (328, 40421), (399, 40523), (411, 40556), (424, 40580), (466, 40640), (495, 40727), (518, 40802), (557, 40892), (580, 40943), (582, 40946), (628, 41036), (649, 41054), (659, 41087), (691, 41141), (697, 41153), (705, 41171), (735, 41234), (779, 41318), (826, 41435), (836, 41483), (851, 41546), (870, 41630),

Gene: Wallaby_51 Start: 37932, Stop: 36442, Start Num: 198

Candidate Starts for Wallaby_51:

(Start: 198 @37932 has 49 MA's), (257, 37842), (Start: 266 @37815 has 1 MA's), (279, 37773), (299, 37725), (Start: 310 @37698 has 1 MA's), (362, 37617), (364, 37614), (368, 37608), (389, 37587), (417, 37521), (479, 37431), (484, 37419), (509, 37356), (512, 37341), (518, 37326), (569, 37209), (572, 37200), (611, 37122), (648, 37095), (651, 37083), (653, 37071), (685, 37032), (694, 37011), (695, 37008), (702, 36993), (733, 36921), (768, 36852), (793, 36807), (819, 36762), (823, 36747), (831, 36717), (839, 36693), (850, 36642), (858, 36612), (876, 36546), (884, 36522), (895, 36489), (913, 36453),

Gene: Waltz_91 Start: 53322, Stop: 54977, Start Num: 159

Candidate Starts for Waltz_91:

(Start: 159 @53322 has 9 MA's), (205, 53385), (210, 53394), (260, 53478), (322, 53646), (375, 53739), (400, 53775), (420, 53829), (452, 53880), (468, 53916), (476, 53943), (487, 53970), (501, 54003), (504, 54012), (545, 54129), (585, 54207), (599, 54225), (644, 54276), (655, 54309), (688, 54342), (709, 54390), (728, 54426), (751, 54468), (812, 54579), (819, 54597), (827, 54624), (835, 54651), (853, 54726), (860, 54753), (876, 54819), (882, 54834), (884, 54843), (885, 54846), (894, 54873), (896, 54879), (924, 54930), (930, 54951), (932, 54966),

Gene: Wardwill_42 Start: 29255, Stop: 27828, Start Num: 250

Candidate Starts for Wardwill_42:

(Start: 250 @29255 has 24 MA's), (263, 29225), (265, 29219), (Start: 310 @29105 has 1 MA's), (311, 29102), (312, 29099), (457, 28865), (462, 28862), (557, 28607), (569, 28583), (582, 28556), (584, 28550), (625, 28502), (651, 28469), (701, 28355), (705, 28346), (728, 28301), (732, 28295), (746, 28268), (789, 28196), (826, 28124), (836, 28088), (839, 28079), (844, 28064), (845, 28058), (848, 28040), (858, 27998), (875, 27935), (900, 27863),

Gene: Wawa_29 Start: 22126, Stop: 23526, Start Num: 219

Candidate Starts for Wawa_29:

(Start: 219 @22126 has 74 MA's), (254, 22189), (Start: 289 @22294 has 1 MA's), (290, 22297), (329, 22381), (359, 22414), (401, 22465), (404, 22471), (449, 22552), (451, 22555), (452, 22561), (470, 22597), (475, 22615), (476, 22618), (489, 22651), (499, 22672), (505, 22690), (522, 22723), (560, 22804), (576, 22831), (597, 22861), (602, 22870), (624, 22897), (651, 22930), (655, 22945), (698, 22999), (707, 23020), (712, 23032), (722, 23044), (793, 23158), (838, 23266), (841, 23275), (843, 23281), (849, 23317), (864, 23377), (870, 23404), (903, 23494),

Gene: Wayne_29 Start: 22211, Stop: 23605, Start Num: 219

Candidate Starts for Wayne_29:

(Start: 219 @22211 has 74 MA's), (254, 22268), (Start: 289 @22373 has 1 MA's), (329, 22460), (401, 22544), (403, 22547), (404, 22550), (452, 22640), (470, 22676), (473, 22685), (475, 22694), (499, 22751), (505, 22769), (522, 22802), (529, 22814), (560, 22883), (576, 22910), (590, 22934), (624, 22976), (651, 23009), (655, 23024), (659, 23033), (722, 23123), (768, 23192), (784, 23219), (793, 23237), (803, 23249), (836, 23339), (838, 23345), (841, 23354), (843, 23360), (849, 23396), (870, 23483), (887, 23534), (903, 23573), (915, 23597),

Gene: Weiss13_66 Start: 47645, Stop: 49405, Start Num: 200

Candidate Starts for Weiss13_66:

(Start: 200 @47645 has 10 MA's), (Start: 250 @47714 has 24 MA's), (283, 47810), (287, 47819), (322, 47900), (346, 47945), (463, 48146), (477, 48194), (500, 48254), (504, 48266), (526, 48332), (569, 48455), (580, 48479), (593, 48503), (649, 48707), (659, 48740), (665, 48755), (691, 48794), (692, 48797), (697, 48806), (735, 48875), (803, 49007), (836, 49130), (837, 49133), (845, 49160), (850, 49190), (852, 49196), (853, 49199), (857, 49217), (861, 49229), (902, 49364), (920, 49394),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 56

Candidate Starts for Wentworth_70:

(34, 50335), (39, 50326), (47, 50305), (54, 50272), (Start: 56 @50269 has 8 MA's), (Start: 69 @50254 has 45 MA's), (85, 50191), (Start: 91 @50182 has 1 MA's), (98, 50170), (Start: 114 @50122 has 3 MA's), (127, 50089), (134, 50077), (143, 50056), (160, 50014), (218, 49939), (236, 49915), (314, 49717), (323, 49708), (347, 49663), (387, 49600), (442, 49492), (466, 49444), (502, 49339), (517, 49288), (540, 49228), (578, 49141), (580, 49138), (659, 49033), (663, 49024), (667, 49012), (720, 48913), (792, 48796), (798, 48784), (811, 48757), (814, 48751), (837, 48667), (853, 48598), (865, 48541), (869, 48523), (888, 48469), (910, 48415),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 244

Candidate Starts for WestPM_37:

(Start: 244 @29337 has 1 MA's), (346, 29124), (389, 29061), (401, 29040), (457, 28947), (462, 28944), (469, 28923), (475, 28902), (511, 28806), (557, 28692), (569, 28668), (584, 28635), (601, 28611), (608, 28599), (625, 28587), (642, 28575), (645, 28572), (651, 28554), (686, 28512), (701, 28479), (706, 28467), (711, 28455), (753, 28383), (836, 28212), (839, 28203), (844, 28188), (845, 28182), (846, 28176), (872, 28068), (875, 28059), (885, 28029), (896, 27996), (900, 27987),

Gene: Wheelbite_90 Start: 54992, Stop: 56656, Start Num: 159

Candidate Starts for Wheelbite_90:

(Start: 159 @54992 has 9 MA's), (205, 55055), (210, 55064), (261, 55151), (Start: 273 @55196 has 28 MA's), (322, 55316), (375, 55409), (395, 55433), (400, 55445), (420, 55499), (452, 55550), (468, 55586), (476, 55613), (484, 55634), (487, 55640), (504, 55682), (545, 55799), (585, 55877), (599, 55895), (644, 55946), (655, 55979), (688, 56012), (712, 56069), (728, 56096), (751, 56138), (793, 56219), (812, 56249), (819, 56267), (827, 56294), (835, 56321), (853, 56396), (860, 56423), (863, 56435), (882, 56504), (883, 56510), (884, 56513), (885, 56516), (894, 56543), (896, 56549), (916, 56585), (924, 56600), (928, 56615), (932, 56636),

Gene: Wheezy_72 Start: 55632, Stop: 53704, Start Num: 82

Candidate Starts for Wheezy_72:

(9, 55974), (10, 55962), (12, 55944), (Start: 38 @55770 has 35 MA's), (Start: 82 @55632 has 2 MA's), (87, 55608), (182, 55404), (215, 55359), (274, 55251), (321, 55137), (323, 55134), (374, 55044), (376, 55041), (413, 54981), (484, 54843), (492, 54825), (500, 54801), (542, 54678), (580, 54573), (649, 54447), (667, 54393), (731, 54267), (735, 54258), (748, 54234), (779, 54162), (782, 54156), (796, 54126), (820, 54069), (836, 54009), (851, 53946), (870, 53865),

Gene: WhoseManz_71 Start: 52415, Stop: 50334, Start Num: 38

Candidate Starts for WhoseManz_71:

(10, 52607), (12, 52589), (18, 52514), (Start: 38 @52415 has 35 MA's), (274, 51896), (286, 51863), (292, 51842), (316, 51788), (321, 51782), (323, 51779), (374, 51689), (376, 51686), (413, 51626), (492, 51470), (542, 51323), (580, 51215), (593, 51191), (649, 51089), (667, 51035), (683, 51020), (718, 50939), (735, 50900), (767, 50837), (779, 50798), (782, 50792), (796, 50762), (836, 50645), (851, 50582), (865, 50519), (870, 50501), (899, 50417),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 247

Candidate Starts for WildNOut_41:

(14, 31768), (97, 31414), (125, 31339), (Start: 247 @31117 has 139 MA's), (308, 30973), (Start: 310 @30967 has 1 MA's), (311, 30964), (389, 30850), (404, 30823), (430, 30763), (457, 30736), (462, 30733), (499, 30637), (511, 30595), (584, 30424), (600, 30403), (625, 30376), (655, 30328), (701, 30268), (789, 30109), (820, 30055), (845, 29971), (846, 29965), (848, 29953), (872, 29857), (890, 29803), (891, 29800), (900, 29776),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 56

Candidate Starts for Wilkos_72:

(25, 50525), (34, 50498), (39, 50489), (47, 50468), (54, 50435), (Start: 56 @50432 has 8 MA's), (Start: 69 @50417 has 45 MA's), (85, 50354), (Start: 91 @50345 has 1 MA's), (98, 50333), (Start: 114 @50285 has 3 MA's), (127, 50252), (134, 50240), (143, 50219), (160, 50177), (218, 50102), (271, 49994), (286, 49949), (314, 49880), (323, 49871), (387, 49763), (466, 49607), (494, 49523), (502, 49502), (517, 49451), (540, 49391), (580, 49301), (608, 49247), (659, 49196), (663, 49187), (667, 49175), (691, 49142), (720, 49076), (798, 48947), (811, 48920), (814, 48914), (837, 48830), (853, 48761), (856, 48746), (865, 48704), (869, 48686), (888, 48632), (910, 48578),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 250

Candidate Starts for WilliamStrong_40:

(Start: 250 @30915 has 24 MA's), (Start: 253 @30909 has 24 MA's), (263, 30885), (Start: 289 @30807 has 1 MA's), (309, 30768), (Start: 310 @30765 has 1 MA's), (346, 30702), (378, 30651), (396, 30630), (404, 30612), (418, 30573), (457, 30525), (462, 30522), (464, 30519), (475, 30480), (497, 30429), (557, 30267), (580, 30219), (582, 30216), (584, 30210), (600, 30189), (642, 30150), (651, 30129), (701, 30015), (706, 30003), (728, 29961), (746, 29928), (753, 29919), (789, 29856), (836, 29748), (839, 29739), (844, 29724), (845, 29718), (846, 29712), (848, 29700), (882, 29577), (885, 29565),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 247

Candidate Starts for Winzigespinne_40:

(125, 31024), (Start: 247 @30802 has 139 MA's), (308, 30658), (Start: 310 @30652 has 1 MA's), (311, 30649), (389, 30535), (404, 30508), (430, 30448), (457, 30421), (462, 30418), (499, 30322), (511, 30280), (584, 30109), (600, 30088), (608, 30073), (625, 30061), (655, 30013), (701, 29953), (753, 29857), (789, 29794), (820, 29740), (845, 29656), (846, 29650), (848, 29638), (866, 29563), (890, 29488), (891, 29485), (900, 29461),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 194

Candidate Starts for Woes_57:

(94, 53467), (142, 53338), (191, 53251), (Start: 194 @53248 has 3 MA's), (Start: 273 @53119 has 28 MA's), (288, 53074), (329, 52984), (330, 52981), (333, 52975), (346, 52954), (395, 52891), (453, 52783), (465, 52765), (499, 52678), (504, 52663), (521, 52621), (557, 52540), (581, 52492), (603, 52450), (609, 52432), (623, 52429), (648, 52402), (665, 52351), (689, 52315), (711, 52264), (756, 52180), (765, 52159), (844, 52003), (845, 51997), (847, 51985), (878, 51859), (925, 51745),

Gene: Wojtek_56 Start: 39665, Stop: 41593, Start Num: 57

Candidate Starts for Wojtek_56:

(25, 39569), (29, 39578), (31, 39590), (45, 39620), (Start: 50 @39653 has 1 MA's), (Start: 57 @39665 has 13 MA's), (Start: 59 @39671 has 1 MA's), (Start: 69 @39689 has 45 MA's), (73, 39704), (81, 39737), (94, 39770), (96, 39773), (120, 39839), (150, 39911), (158, 39929), (168, 39947), (176, 39956), (182, 39965), (236, 40037), (286, 40157), (287, 40160), (311, 40220), (324, 40238), (367, 40310), (385, 40337), (466, 40472), (470, 40490), (484, 40532), (493, 40553), (495, 40559), (508, 40601), (514, 40622), (521, 40643), (534, 40679), (557, 40736), (562, 40748), (574, 40778), (578, 40787), (604, 40838), (659, 40934), (660, 40937), (729, 41048), (779, 41138), (792, 41165), (826, 41255), (847, 41333), (850, 41351), (856, 41375), (861, 41390), (888, 41492), (893, 41507), (902, 41528),

Gene: Wolfwood_49 Start: 37906, Stop: 36416, Start Num: 198

Candidate Starts for Wolfwood_49:

(Start: 198 @37906 has 49 MA's), (257, 37816), (Start: 266 @37789 has 1 MA's), (279, 37747), (299, 37699), (Start: 310 @37672 has 1 MA's), (362, 37591), (364, 37588), (368, 37582), (389, 37561), (417, 37495), (479, 37405), (484, 37393), (509, 37330), (512, 37315), (518, 37300), (569, 37183), (572, 37174), (611, 37096), (648, 37069), (651, 37057), (653, 37045), (685, 37006), (694, 36985), (695, 36982), (702, 36967), (733, 36895), (768, 36826), (793, 36781), (819, 36736), (823, 36721), (831, 36691), (839, 36667), (850, 36616), (858, 36586), (876, 36520), (884, 36496), (895, 36463), (913, 36427),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 61

Candidate Starts for Wollypog_43:

(Start: 61 @30596 has 1 MA's), (72, 30620), (116, 30746), (138, 30794), (160, 30848), (210, 30911), (218, 30923), (274, 31034), (295, 31100), (299, 31106), (350, 31199), (366, 31229), (374, 31244), (378, 31250), (500, 31514), (514, 31562), (518, 31574), (534, 31619), (565, 31688), (573, 31709), (659, 31829), (697, 31895), (714, 31934), (753, 31997), (839, 32228), (862, 32327), (867, 32354),

(895, 32453), (899, 32462),

Gene: WonderBoy_25 Start: 20548, Stop: 21942, Start Num: 219

Candidate Starts for WonderBoy_25:

(Start: 219 @20548 has 74 MA's), (254, 20605), (Start: 289 @20710 has 1 MA's), (329, 20797), (359, 20830), (401, 20881), (404, 20887), (449, 20968), (451, 20971), (452, 20977), (470, 21013), (475, 21031), (476, 21034), (489, 21067), (499, 21088), (560, 21220), (576, 21247), (602, 21286), (611, 21307), (624, 21313), (651, 21346), (655, 21361), (659, 21370), (698, 21415), (714, 21451), (741, 21493), (784, 21556), (793, 21574), (836, 21676), (837, 21679), (843, 21697), (844, 21700), (848, 21724), (849, 21733), (870, 21820), (903, 21910), (915, 21934),

Gene: Worcestershire_59 Start: 51468, Stop: 49936, Start Num: 221

Candidate Starts for Worcestershire_59:

(94, 51723), (112, 51672), (129, 51621), (153, 51567), (169, 51537), (Start: 194 @51504 has 3 MA's), (Start: 203 @51495 has 1 MA's), (Start: 221 @51468 has 28 MA's), (288, 51300), (306, 51258), (329, 51210), (334, 51198), (342, 51186), (346, 51180), (362, 51159), (384, 51132), (465, 50991), (499, 50904), (504, 50889), (507, 50877), (521, 50847), (542, 50796), (554, 50769), (581, 50718), (594, 50694), (603, 50676), (609, 50658), (623, 50655), (648, 50628), (662, 50586), (689, 50541), (756, 50406), (763, 50391), (773, 50370), (826, 50289), (827, 50286), (844, 50229), (845, 50223), (846, 50217), (847, 50211), (864, 50136), (874, 50097), (878, 50085), (880, 50082), (919, 49989), (925, 49974), (931, 49953),

Gene: Xebius_40 Start: 30931, Stop: 29519, Start Num: 253

Candidate Starts for Xebius_40:

(Start: 253 @30931 has 24 MA's), (265, 30901), (Start: 266 @30895 has 1 MA's), (276, 30862), (389, 30670), (404, 30643), (430, 30583), (457, 30556), (462, 30553), (475, 30511), (499, 30457), (511, 30415), (557, 30301), (584, 30244), (600, 30223), (608, 30208), (625, 30196), (642, 30184), (645, 30181), (651, 30163), (685, 30082), (701, 30046), (728, 29992), (750, 29950), (768, 29920), (784, 29896), (786, 29890), (816, 29848), (836, 29779), (844, 29755), (845, 29749), (846, 29743), (848, 29731), (872, 29635), (875, 29626), (882, 29608), (885, 29596), (902, 29551),

Gene: Xenia2_58 Start: 39008, Stop: 40912, Start Num: 69

Candidate Starts for Xenia2_58:

(Start: 57 @38990 has 13 MA's), (Start: 58 @38993 has 58 MA's), (Start: 69 @39008 has 45 MA's), (81, 39056), (94, 39089), (96, 39092), (176, 39275), (182, 39284), (236, 39356), (Start: 247 @39371 has 139 MA's), (254, 39380), (287, 39479), (311, 39539), (434, 39752), (463, 39785), (495, 39878), (500, 39893), (508, 39920), (514, 39941), (557, 40055), (574, 40097), (578, 40106), (597, 40145), (604, 40157), (628, 40202), (643, 40208), (659, 40253), (665, 40268), (727, 40361), (779, 40454), (836, 40607), (847, 40649), (850, 40667), (851, 40670), (888, 40808), (902, 40844), (928, 40898),

Gene: Yakult_55 Start: 39767, Stop: 38292, Start Num: 202

Candidate Starts for Yakult_55:

(Start: 202 @39767 has 10 MA's), (230, 39725), (257, 39677), (Start: 266 @39650 has 1 MA's), (272, 39626), (283, 39596), (290, 39575), (293, 39566), (299, 39560), (346, 39476), (353, 39467), (358, 39458), (364, 39449), (368, 39443), (462, 39320), (479, 39266), (481, 39260), (484, 39254), (504, 39209), (512, 39176), (605, 38972), (608, 38963), (660, 38891), (694, 38846), (702, 38828), (705, 38822), (730, 38777), (733, 38771), (745, 38750), (768, 38702), (770, 38699), (793, 38657), (794, 38654), (805, 38639), (839, 38543), (850, 38492), (866, 38429), (882, 38381), (888, 38360), (913, 38303),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 56

Candidate Starts for Yara_66:

(Start: 56 @49125 has 8 MA's), (63, 49113), (Start: 69 @49110 has 45 MA's), (78, 49071), (85, 49047), (Start: 91 @49038 has 1 MA's), (98, 49026), (134, 48933), (160, 48870), (218, 48795), (236, 48771), (Start: 247 @48756 has 139 MA's), (286, 48645), (292, 48624), (314, 48576), (400, 48438), (489, 48240), (502, 48198), (517, 48147), (540, 48087), (542, 48081), (580, 47997), (659, 47892), (667, 47871), (685, 47853), (699, 47820), (720, 47772), (792, 47649), (798, 47637), (811, 47610), (837, 47520), (838, 47517), (853, 47451), (865, 47394), (869, 47376), (870, 47373), (895, 47301), (923, 47250),

Gene: Yarn_50 Start: 38320, Stop: 36842, Start Num: 198

Candidate Starts for Yarn_50:

(Start: 198 @38320 has 49 MA's), (257, 38227), (Start: 266 @38200 has 1 MA's), (290, 38125), (Start: 310 @38083 has 1 MA's), (362, 38002), (462, 37870), (479, 37816), (484, 37804), (512, 37726), (559, 37612), (572, 37585), (584, 37561), (605, 37522), (653, 37456), (663, 37435), (702, 37378), (766, 37261), (793, 37213), (805, 37195), (839, 37099), (845, 37078), (850, 37048),

Gene: Yelo_65 Start: 48022, Stop: 49782, Start Num: 200

Candidate Starts for Yelo_65:

(Start: 200 @48022 has 10 MA's), (Start: 250 @48091 has 24 MA's), (283, 48187), (287, 48196), (322, 48277), (346, 48322), (463, 48523), (477, 48571), (500, 48631), (504, 48643), (526, 48709), (569, 48832), (580, 48856), (593, 48880), (649, 49084), (659, 49117), (665, 49132), (691, 49171), (692, 49174), (697, 49183), (735, 49252), (803, 49384), (836, 49507), (837, 49510), (845, 49537), (850, 49567), (852, 49573), (853, 49576), (857, 49594), (861, 49606), (902, 49741), (920, 49771),

Gene: Yikes_62 Start: 41734, Stop: 43647, Start Num: 58

Candidate Starts for Yikes_62:

(20, 41608), (23, 41617), (24, 41629), (35, 41662), (Start: 50 @41719 has 1 MA's), (Start: 57 @41731 has 13 MA's), (Start: 58 @41734 has 58 MA's), (Start: 69 @41746 has 45 MA's), (81, 41794), (94, 41827), (120, 41896), (158, 41986), (176, 42013), (182, 42022), (236, 42094), (286, 42214), (311, 42277), (367, 42367), (385, 42394), (463, 42523), (470, 42547), (484, 42589), (502, 42637), (508, 42658), (514, 42679), (534, 42736), (557, 42790), (574, 42832), (604, 42892), (659, 42988), (660, 42991), (764, 43168), (792, 43219), (826, 43309), (836, 43345), (838, 43351), (850, 43405), (861, 43444), (888, 43546), (893, 43561), (902, 43582),

Gene: Yndexa_71 Start: 54175, Stop: 52319, Start Num: 114

Candidate Starts for Yndexa_71:

(10, 54592), (12, 54574), (18, 54499), (Start: 38 @54400 has 35 MA's), (Start: 114 @54175 has 3 MA's), (274, 53881), (286, 53848), (292, 53827), (316, 53773), (321, 53767), (323, 53764), (374, 53674), (376, 53671), (413, 53611), (492, 53455), (542, 53308), (580, 53200), (593, 53176), (649, 53074), (667, 53020), (683, 53005), (718, 52924), (735, 52885), (767, 52822), (779, 52783), (782, 52777), (796, 52747), (836, 52630), (851, 52567), (865, 52504), (870, 52486), (899, 52402),

Gene: Yucky_59 Start: 40876, Stop: 39398, Start Num: 198

Candidate Starts for Yucky_59:

(139, 40954), (167, 40903), (170, 40900), (Start: 198 @40876 has 49 MA's), (Start: 241 @40813 has 2 MA's), (255, 40792), (257, 40786), (Start: 266 @40759 has 1 MA's), (283, 40705), (299, 40669), (306, 40654), (362, 40558), (368, 40549), (389, 40528), (417, 40462), (462, 40426), (479, 40372), (481, 40366), (484, 40360), (512, 40282), (518, 40267), (559, 40168), (597, 40093), (608, 40069), (625, 40057), (648, 40036), (652, 40021), (653, 40012), (663, 39991), (694, 39952), (698, 39943), (705, 39928), (733, 39877), (768, 39808), (770, 39805), (793, 39763), (805, 39745), (839, 39649), (850, 39598), (858, 39568), (866, 39535), (884, 39478), (889, 39463),

Gene: Yummy_55 Start: 38695, Stop: 37217, Start Num: 198

Candidate Starts for Yummy_55:

(Start: 198 @38695 has 49 MA's), (255, 38608), (257, 38602), (272, 38551), (290, 38500), (299, 38485), (346, 38401), (362, 38377), (368, 38368), (462, 38245), (479, 38191), (481, 38185), (484, 38179), (499, 38149), (512, 38101), (559, 37987), (572, 37960), (584, 37936), (648, 37855), (653, 37831), (663, 37810), (694, 37771), (702, 37753), (705, 37747), (766, 37636), (770, 37630), (793, 37588), (805, 37570), (836, 37483), (839, 37474), (845, 37453), (850, 37423), (858, 37393), (866, 37360), (885, 37300), (895, 37270),

Gene: YuuY_40 Start: 31212, Stop: 29842, Start Num: 253

Candidate Starts for YuuY_40:

(Start: 253 @31212 has 24 MA's), (276, 31143), (312, 31062), (389, 30951), (404, 30924), (430, 30864), (457, 30837), (462, 30834), (499, 30738), (557, 30582), (584, 30525), (600, 30504), (608, 30489), (625, 30477), (642, 30465), (648, 30456), (651, 30444), (655, 30429), (668, 30405), (701, 30369), (705, 30360), (728, 30315), (750, 30273), (789, 30210), (795, 30198), (816, 30171), (836, 30102), (839, 30093), (844, 30078), (845, 30072), (846, 30066), (848, 30054), (872, 29958), (875, 29949), (882, 29931), (885, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 247

Candidate Starts for Zada_42:

(97, 31387), (125, 31312), (Start: 247 @31090 has 139 MA's), (308, 30946), (Start: 310 @30940 has 1 MA's), (311, 30937), (389, 30823), (404, 30796), (430, 30736), (457, 30709), (462, 30706), (499, 30610), (511, 30568), (556, 30457), (584, 30397), (608, 30361), (625, 30349), (655, 30301), (701, 30241), (753, 30145), (789, 30082), (820, 30028), (845, 29944), (846, 29938), (848, 29926), (872, 29830), (890, 29776), (891, 29773), (900, 29749),

Gene: Zanella_33 Start: 23260, Stop: 24687, Start Num: 222

Candidate Starts for Zanella_33:

(192, 23218), (Start: 222 @23260 has 17 MA's), (377, 23578), (464, 23725), (470, 23746), (587, 24013), (624, 24061), (646, 24082), (686, 24139), (701, 24172), (717, 24208), (772, 24286), (784, 24307), (826, 24388), (827, 24391), (849, 24478), (853, 24490), (863, 24529), (870, 24565), (872, 24571), (873, 24574), (876, 24583), (898, 24646),

Gene: Zany_58 Start: 41140, Stop: 43056, Start Num: 57

Candidate Starts for Zany_58:

(Start: 57 @41140 has 13 MA's), (Start: 58 @41143 has 58 MA's), (Start: 69 @41155 has 45 MA's), (81, 41203), (94, 41236), (120, 41305), (158, 41395), (176, 41422), (182, 41431), (236, 41503), (286, 41623), (311, 41686), (327, 41713), (367, 41776), (385, 41803), (463, 41932), (470, 41956), (484, 41998), (502, 42046), (508, 42067), (514, 42088), (534, 42145), (557, 42199), (574, 42241), (604, 42301), (659, 42397), (660, 42400), (792, 42628), (826, 42718), (836, 42754), (838, 42760), (850, 42814), (861, 42853), (888, 42955), (893, 42970), (902, 42991),

Gene: Zareef_49 Start: 37928, Stop: 36438, Start Num: 198

Candidate Starts for Zareef_49:

(Start: 198 @37928 has 49 MA's), (257, 37838), (Start: 266 @37811 has 1 MA's), (279, 37769), (293, 37727), (299, 37721), (Start: 310 @37694 has 1 MA's), (362, 37613), (364, 37610), (368, 37604), (389, 37583), (417, 37517), (479, 37427), (484, 37415), (509, 37352), (512, 37337), (518, 37322), (569, 37205), (572, 37196), (611, 37118), (648, 37091), (651, 37079), (653, 37067), (685, 37028), (694, 37007), (695, 37004), (702, 36989), (733, 36917), (768, 36848), (793, 36803), (819, 36758), (823, 36743), (831, 36713), (839, 36689), (850, 36638), (858, 36608), (876, 36542), (884, 36518), (895, 36485), (913, 36449),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 250

Candidate Starts for Zayuliv_40:

(Start: 250 @29694 has 24 MA's), (263, 29664), (265, 29658), (Start: 310 @29544 has 1 MA's), (311, 29541), (312, 29538), (457, 29304), (462, 29301), (557, 29046), (582, 28995), (584, 28989), (625, 28941), (651, 28908), (701, 28794), (705, 28785), (728, 28740), (732, 28734), (746, 28707), (789, 28635), (826, 28563), (836, 28527), (839, 28518), (844, 28503), (845, 28497), (848, 28479), (858, 28437), (875, 28374), (900, 28302),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 253

Candidate Starts for Zenitsu_40:

(Start: 249 @30976 has 8 MA's), (Start: 253 @30973 has 24 MA's), (265, 30943), (Start: 266 @30937 has 1 MA's), (276, 30904), (389, 30712), (404, 30685), (430, 30625), (457, 30598), (462, 30595), (475, 30553), (499, 30499), (511, 30457), (557, 30343), (584, 30286), (600, 30265), (608, 30250), (625, 30238), (642, 30226), (645, 30223), (651, 30205), (685, 30124), (701, 30088), (728, 30034), (750, 29992), (768, 29962), (774, 29947), (784, 29938), (786, 29932), (816, 29890), (836, 29821), (844, 29797), (845, 29791), (846, 29785), (848, 29773), (872, 29677), (875, 29668), (882, 29650), (885, 29638), (887, 29632), (902, 29593),

Gene: Zenon_68 Start: 47968, Stop: 49728, Start Num: 200

Candidate Starts for Zenon_68:

(Start: 200 @47968 has 10 MA's), (Start: 250 @48037 has 24 MA's), (283, 48133), (287, 48142), (322, 48223), (346, 48268), (463, 48469), (477, 48517), (500, 48577), (504, 48589), (526, 48655), (569, 48778), (580, 48802), (593, 48826), (649, 49030), (659, 49063), (665, 49078), (691, 49117), (692, 49120), (697, 49129), (735, 49198), (803, 49330), (836, 49453), (837, 49456), (845, 49483), (850, 49513), (852, 49519), (853, 49522), (857, 49540), (861, 49552), (902, 49687), (920, 49717),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 250

Candidate Starts for Zepp_40:

(Start: 250 @29128 has 24 MA's), (263, 29098), (265, 29092), (Start: 310 @28978 has 1 MA's), (311, 28975), (424, 28774), (457, 28738), (462, 28735), (557, 28480), (582, 28429), (584, 28423), (625, 28375), (642, 28363), (651, 28342), (689, 28255), (701, 28228), (705, 28219), (728, 28174), (746, 28141), (774, 28087), (789, 28069), (826, 27997), (836, 27961), (839, 27952), (844, 27937), (845, 27931), (848, 27913), (875, 27808), (900, 27736),

Gene: Zion_72 Start: 52509, Stop: 50584, Start Num: 67

Candidate Starts for Zion_72:

(33, 52602), (37, 52596), (Start: 67 @52509 has 8 MA's), (129, 52338), (153, 52284), (274, 52080), (344, 51924), (374, 51873), (376, 51870), (407, 51828), (465, 51741), (466, 51738), (489, 51666), (493, 51657), (647, 51306), (649, 51300), (659, 51267), (820, 50928), (838, 50862), (842, 50850), (846, 50832), (851, 50805), (865, 50742), (875, 50709), (900, 50637),

Gene: Zooman_98 Start: 76212, Stop: 74272, Start Num: 151

Candidate Starts for Zooman_98:

(Start: 151 @76212 has 19 MA's), (231, 76086), (Start: 243 @76059 has 3 MA's), (278, 75966), (279, 75963), (329, 75891), (375, 75810), (394, 75786), (461, 75510), (555, 75225), (563, 75204), (601, 75114), (621, 75054), (625, 75045), (630, 75030), (638, 74988), (639, 74982), (651, 74949), (653, 74937), (658, 74928), (673, 74904), (697, 74844), (739, 74808), (793, 74712), (796, 74706), (822, 74643), (827, 74622), (829, 74616), (845, 74541), (846, 74535), (849, 74514), (864, 74454), (875, 74412), (882, 74388), (885, 74376),

Gene: Zorro_29 Start: 22105, Stop: 23505, Start Num: 219

Candidate Starts for Zorro_29:

(Start: 219 @22105 has 74 MA's), (254, 22168), (Start: 289 @22273 has 1 MA's), (290, 22276), (329, 22360), (359, 22393), (401, 22444), (404, 22450), (449, 22531), (451, 22534), (452, 22540), (470, 22576), (475, 22594), (476, 22597), (489, 22630), (499, 22651), (522, 22702), (560, 22783), (576,

22810), (597, 22840), (602, 22849), (624, 22876), (651, 22909), (655, 22924), (698, 22978), (707, 22999), (712, 23011), (722, 23023), (838, 23245), (841, 23254), (843, 23260), (849, 23296), (864, 23356), (870, 23383), (903, 23473),

Gene: Zuko_72 Start: 51866, Stop: 53398, Start Num: 183

Candidate Starts for Zuko_72:

(140, 51788), (Start: 183 @51866 has 2 MA's), (207, 51899), (257, 51986), (269, 52028), (271, 52034), (272, 52037), (274, 52043), (284, 52070), (291, 52091), (293, 52097), (311, 52133), (334, 52175), (351, 52196), (358, 52211), (362, 52217), (364, 52220), (457, 52364), (462, 52370), (464, 52373), (479, 52424), (481, 52430), (484, 52436), (497, 52460), (504, 52481), (512, 52514), (534, 52577), (538, 52586), (565, 52649), (611, 52745), (648, 52772), (651, 52784), (653, 52796), (655, 52799), (733, 52916), (784, 53012), (793, 53030), (809, 53054), (836, 53135), (837, 53138), (838, 53141), (850, 53195), (858, 53225), (873, 53282), (882, 53306), (886, 53321),