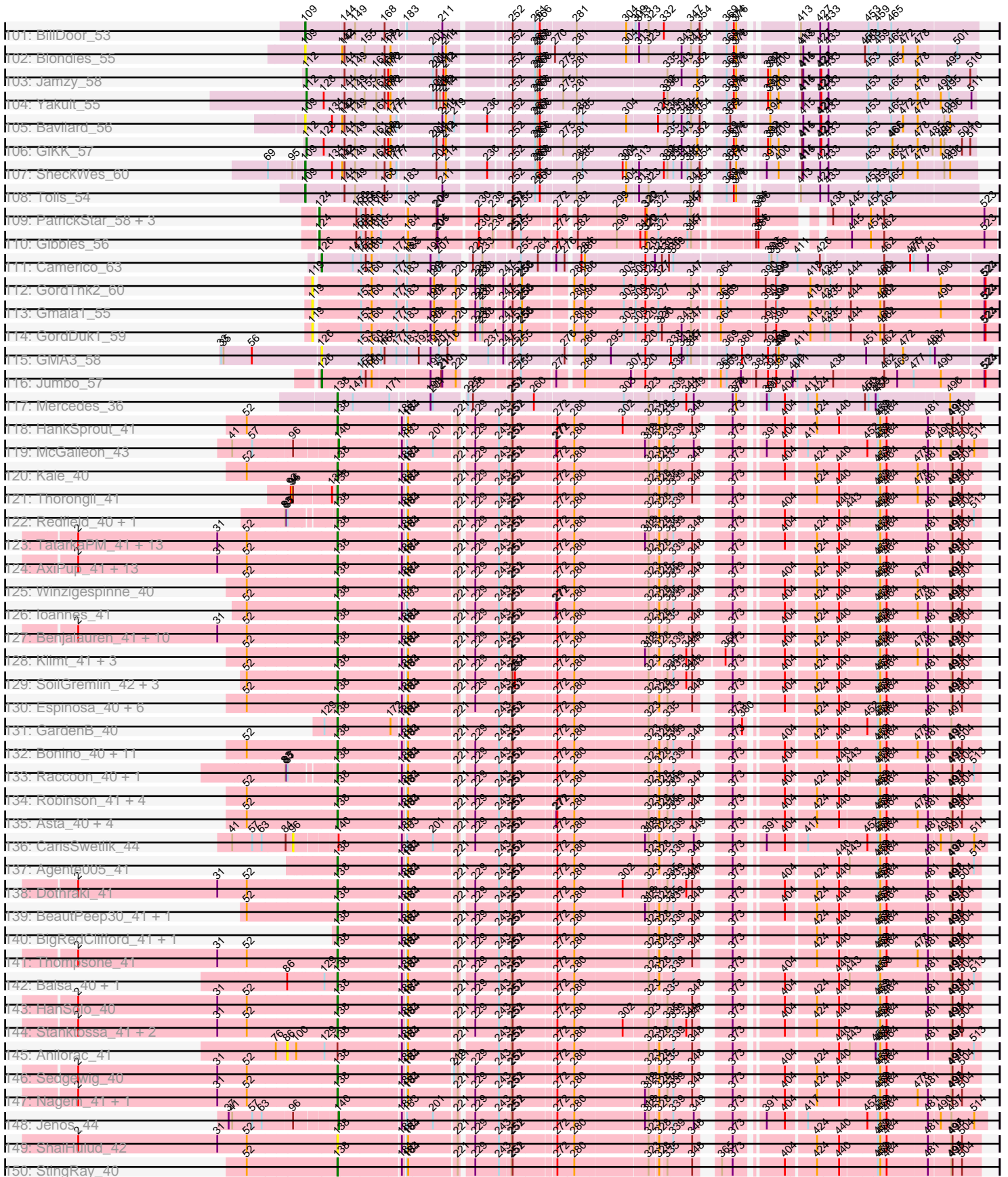
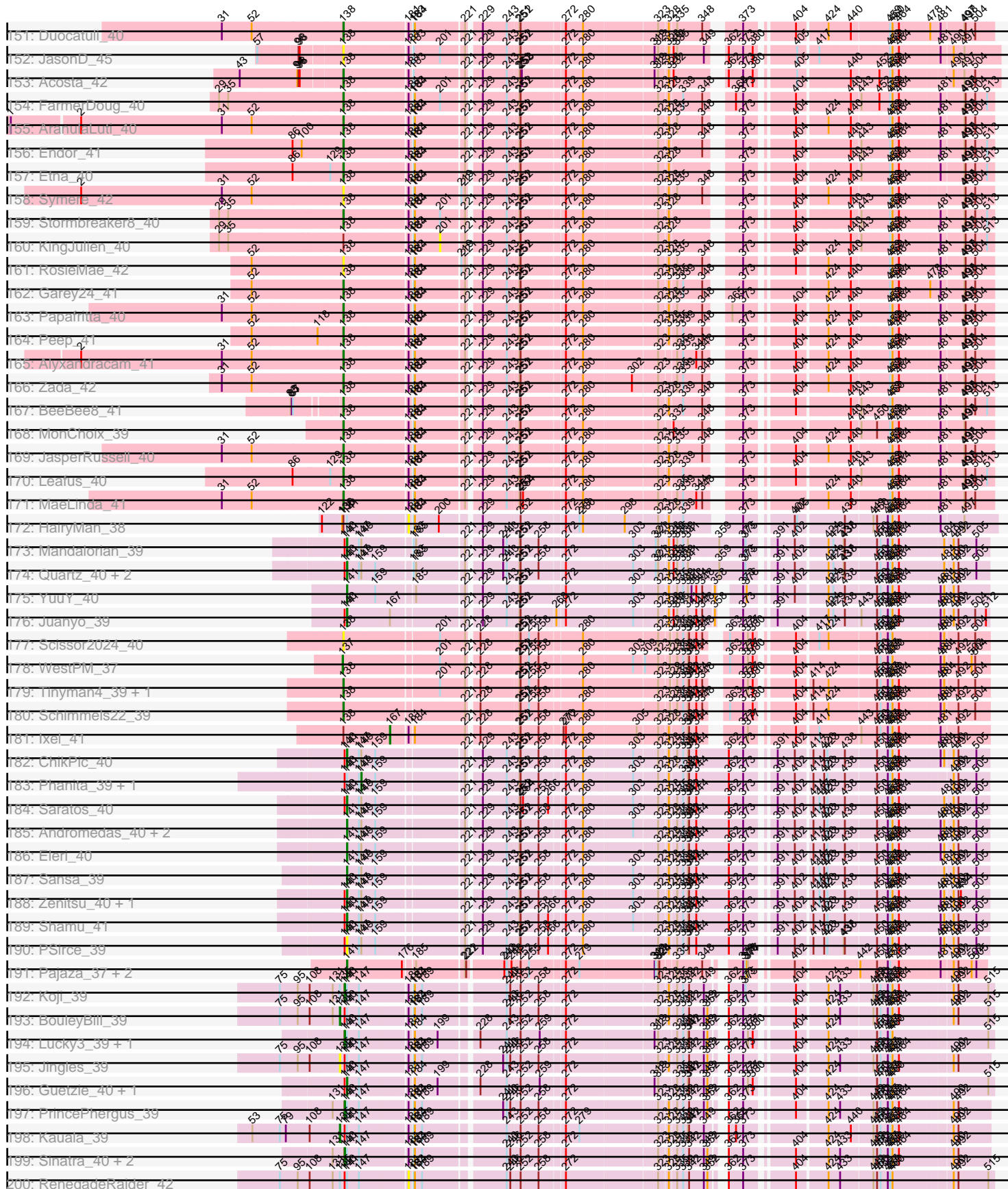


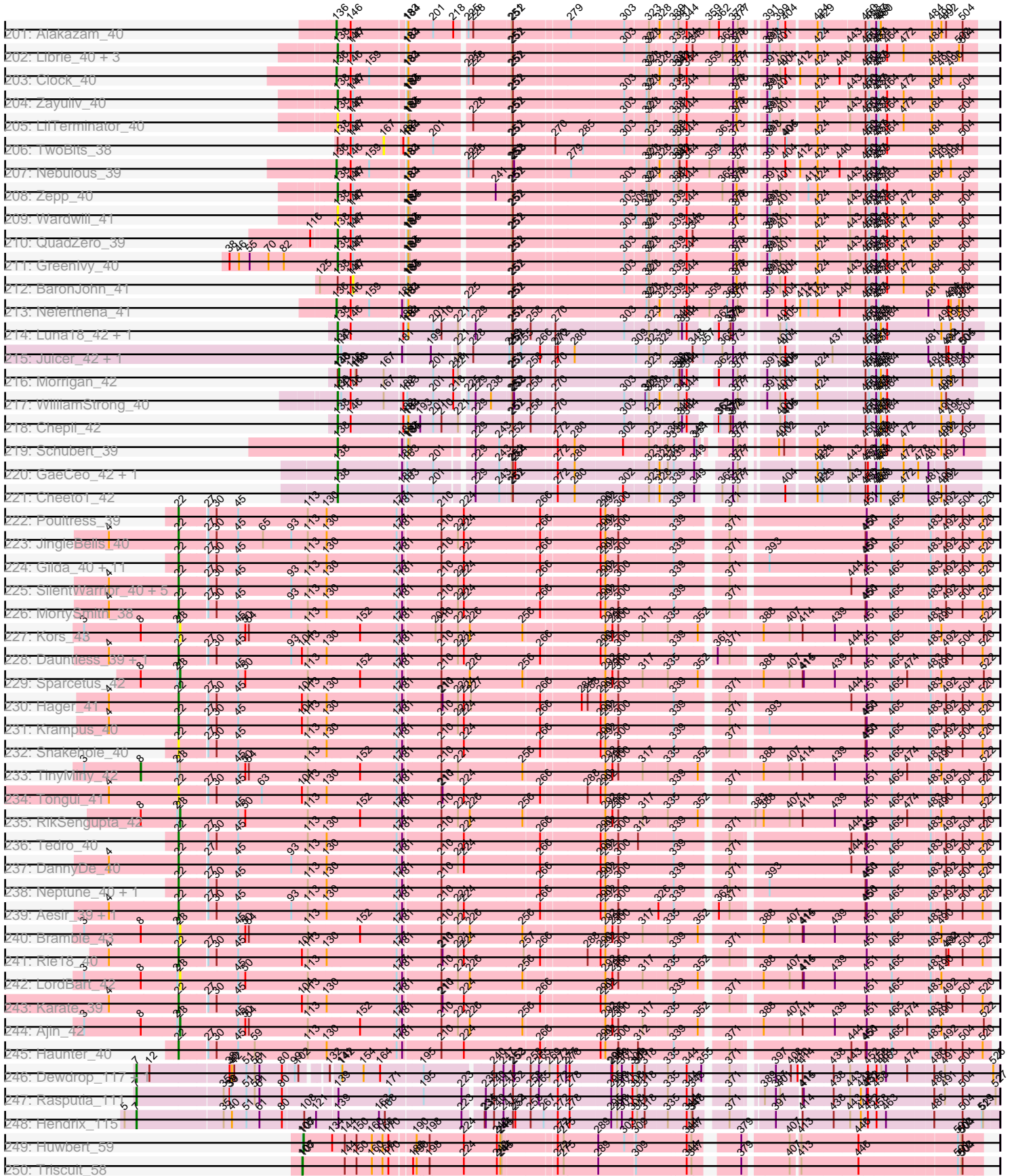
Pham 224167



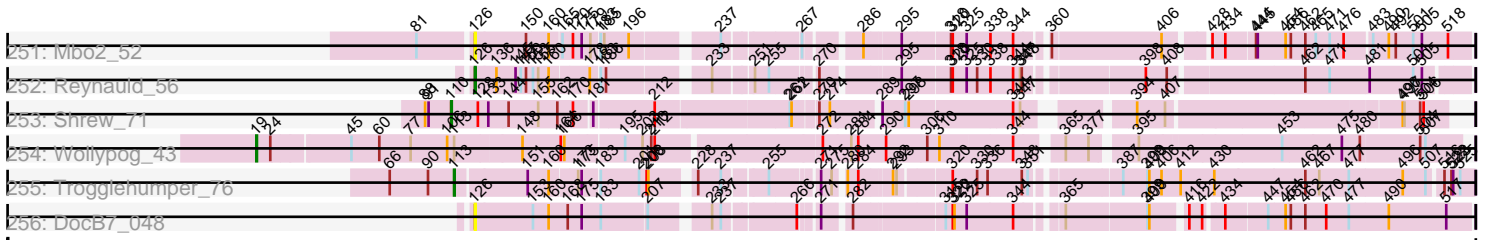
Pham 224167



Pham 224167



Pham 224167



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 224167 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224167 has 435 members, 66 are drafts.

Phages represented in each track:

- Track 1 : NoShow_58
- Track 2 : JacoRen57_46
- Track 3 : Maco6_48, Muddy_50
- Track 4 : FF47_48, 8UZL_50
- Track 5 : Wentworth_70
- Track 6 : Yara_66
- Track 7 : Wilkos_72
- Track 8 : Lizz_70
- Track 9 : PHTowN_70, ShakeNBake_70
- Track 10 : Rooney_70
- Track 11 : Greenbelt_105
- Track 12 : Dryad_74
- Track 13 : Gibson_70
- Track 14 : Zuko_72
- Track 15 : KimJongPhill_74
- Track 16 : GMA7_51, Amore2_62, Austin_61, HayZem_62
- Track 17 : GTE7_50
- Track 18 : Dakiti_60, Chelms_59
- Track 19 : RemRem_60, Ekhein_59, Exiguo_58, Flakey_58, Sam12_58
- Track 20 : RoyalG_59, SteveFrench_58
- Track 21 : Linetti_59
- Track 22 : Barbochs_59, CathyBurgh_58, Lizzo_59
- Track 23 : Beaver_62
- Track 24 : Breezic_59
- Track 25 : Diabla_63
- Track 26 : BigShaq_59
- Track 27 : Msay19_64, Poland_64
- Track 28 : Worcestershire_59
- Track 29 : Butterball_62, BirksAndSocks_64, Boneham_63
- Track 30 : Hotorobo_59, Monty_58, Gorko_58
- Track 31 : Squibbles_58
- Track 32 : GourdThymes_59
- Track 33 : CinnamonToast_65
- Track 34 : Sombrero_60
- Track 35 : Crete_60
- Track 36 : PokyPuppy_58
- Track 37 : PierreThree_58

- Track 38 : Eggsie_57
- Track 39 : Jellybones_61
- Track 40 : John316_62
- Track 41 : FelixAlejandro_64
- Track 42 : Adgers_62
- Track 43 : BenoitCattle_59
- Track 44 : Bianmat_57, Lidong_57, Shelley_57, Jams_57
- Track 45 : Jormungandr_57, Guillaume_57, Lahirium_57, Berries_57, Nimi13_57, MrWormie_57
- Track 46 : Luker_58, Kaseim_57
- Track 47 : Sticker17_57, Hail2Pitt_56, Neoevie_57, Damp_57, Harambe_57, GalacticEye_57, Teal_57, Minos_58, Newt_58, Anamika_57, Hello_57
- Track 48 : Charianelly_57
- Track 49 : Woes_57
- Track 50 : Teatealatte_58, Tredge_57
- Track 51 : Philon9_55
- Track 52 : Teech_56
- Track 53 : Katyusha_57, Benczkowski14_57
- Track 54 : Demosthenes_55
- Track 55 : Hollow_57
- Track 56 : Niagara_57
- Track 57 : Vitaenoi_55
- Track 58 : Kvothe_56
- Track 59 : ASerpRocky_55
- Track 60 : Starburst_53, Typhonomachy_53
- Track 61 : MunkgeeRoachy_51
- Track 62 : GoldHunter_54, Elliott_53, PsychoKiller_52, Burnsey_53, Sopespian_50, Axym_52
- Track 63 : RedBaron_56
- Track 64 : Nibbles_48
- Track 65 : CanesSauce_52, AndPeggy_50, ChocoMunchkin_52, Yarn_50, SteamedHams_54
- Track 66 : Orla_60
- Track 67 : Gibbous_48, Dre3_48
- Track 68 : Agatha_53, Quasar_53
- Track 69 : Cozz_51, Socotra_54
- Track 70 : Amok_54
- Track 71 : MScarn_57
- Track 72 : Buttrmlkdreams_55, Troje_55
- Track 73 : ChickenTender_56
- Track 74 : Nina_53, SweatNTears_55
- Track 75 : Zareef_51
- Track 76 : HippoPololi_50
- Track 77 : SummitAcademy_56
- Track 78 : Fribs8_48
- Track 79 : Survivors_49
- Track 80 : Mayweather_61
- Track 81 : SketchMex_53, Biskit_55
- Track 82 : GTE2_44
- Track 83 : Emalyn_52
- Track 84 : AikoCarson_54
- Track 85 : MaVan_49, Azira_49
- Track 86 : Hexbug_60

- Track 87 : MAnor_58
- Track 88 : Button_57
- Track 89 : PotPie_56, Vine_59, Yucky_60
- Track 90 : KayGee_58, Elinal_60
- Track 91 : Margaret_58
- Track 92 : Horseradish_55, Yummy_55
- Track 93 : Lauer_52
- Track 94 : Pons_58
- Track 95 : CherryonLim_57
- Track 96 : Nodigi_60
- Track 97 : Cleo_47
- Track 98 : RanchParmCat_57
- Track 99 : Carsonalex_56
- Track 100 : BigChungus_56, Feastonyeet_56
- Track 101 : BillDoor_53
- Track 102 : Blondies_55
- Track 103 : Jamzy_58
- Track 104 : Yakult_55
- Track 105 : Bavilard_56
- Track 106 : GiKK_57
- Track 107 : SheckWes_60
- Track 108 : Tolls_54
- Track 109 : PatrickStar_58, Kampe_58, RobinSparkles_61, Orchid_57
- Track 110 : Gibbles_56
- Track 111 : Camerico_63
- Track 112 : GordTnk2_60
- Track 113 : Gmala1_55
- Track 114 : GordDuk1_59
- Track 115 : GMA3_58
- Track 116 : Jumbo_57
- Track 117 : Mercedes_36
- Track 118 : HankSprout_41
- Track 119 : McGalleon_43
- Track 120 : Kale_40
- Track 121 : Thorongil_41
- Track 122 : Redfield_40, Schnapsidee_40
- Track 123 : TatarakaPM_41, MrWorldwide_41, Pherferi_41, Inventa_41, ParleG_41, PhredFlintston_41, NickSell_41, Martin_42, Kurt1_41, Rapheph_41, MillyPhilly_41, TinSulphur_42, Phiderman_41, Shee_41
- Track 124 : AxiPup_41, Vispistious_41, Oxtober96_42, Greys_41, Lovelyunicorn_41, Knox_41, Convict_41, Velene_41, PuppyEggo_41, Strathdee_41, WildNOut_41, Teagan_41, Den3_41, BonesMcCoy_41
- Track 125 : Winzigespinne_40
- Track 126 : Ioannes_41
- Track 127 : Benjalauen_41, KannH_40, HungryHenry_40, Chako_40, StirfryIV_40, Rog141_40, Clancy_40, Gargoyle_41, Ilzat_40, Jerbirus_42, Gubbabump_40
- Track 128 : Klimt_41, Chamuel_40, SonOfLevi_41, Pocket_40
- Track 129 : SoilGremlin_42, Phriends_41, Delphidian_41, OldNelly_42
- Track 130 : Espinosa_40, Exploradora_40, Christoph_40, Tenda_40, ManRay_40, JeriBeth_42, Aubergine_40
- Track 131 : GardenB_40
- Track 132 : 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 133 : Raccoon_40, Hamlet_40
- Track 134 : Robinson_41, AlexAdler_41, Janus167_40, Figueroism_41, Riyhil_41
- Track 135 : Asta_40, Nattles_40, TeddyBear_40, Gershwin_40, Oats_40
- Track 136 : CarisSwetlik_44
- Track 137 : Agente005_41
- Track 138 : Dothraki_41
- Track 139 : BeautPeep30_41, Phireproof_41
- Track 140 : BigRedClifford_41, Blage_41
- Track 141 : Thompsone_41
- Track 142 : Balsa_40, Peppino_40
- Track 143 : HanSolo_40
- Track 144 : Stanktossa_41, Byron23_42, Bandik_41
- Track 145 : Anilorac_41
- Track 146 : Sedgewig_40
- Track 147 : Nagem_41, SJay_41
- Track 148 : Jenos_44
- Track 149 : ShaiHulud_42
- Track 150 : StingRay_40
- Track 151 : Duocatuli_40
- Track 152 : JasonD_45
- Track 153 : Acosta_42
- Track 154 : FarmerDoug_40
- Track 155 : AranulaLuti_40
- Track 156 : Endor_41
- Track 157 : Etna_40
- Track 158 : Symere_42
- Track 159 : Stormbreaker8_40
- Track 160 : KingJulien_40
- Track 161 : RosieMae_42
- Track 162 : Garey24_41
- Track 163 : Papafritta_40
- Track 164 : Peep_41
- Track 165 : Alyxandracam_41
- Track 166 : Zada_42
- Track 167 : BeeBee8_41
- Track 168 : MonChoix_39
- Track 169 : JasperRussell_40
- Track 170 : Leafus_40
- Track 171 : MaeLinda_41
- Track 172 : HairyMan_38
- Track 173 : Mandalorian_39
- Track 174 : Quartz_40, Carostasia_39, Nucci_39
- Track 175 : YuuY_40
- Track 176 : Juanyo_39
- Track 177 : Scissor2024_40
- Track 178 : WestPM_37
- Track 179 : Tinyman4_39, HerculesXL_40
- Track 180 : Schimmels22_39
- Track 181 : Ixel_41
- Track 182 : ChikPic_40
- Track 183 : Phanita_39, Finny_41
- Track 184 : Saratos_40
- Track 185 : Andromedas_40, ColaCorta_40, Glamour_40

- Track 186 : Eleri_40
- Track 187 : Sansa_39
- Track 188 : Zenitsu_40, MCubed_40
- Track 189 : Shamu_41
- Track 190 : PSirce_39
- Track 191 : Pajaza_37, Casey_37, Pikmin_37
- Track 192 : Koji_39
- Track 193 : BouleyBill_39
- Track 194 : Lucky3_39, Golden_39
- Track 195 : Jingles_39
- Track 196 : Guetzie_40, SirVictor_40
- Track 197 : PrincePhergus_39
- Track 198 : Kauala_39
- Track 199 : Sinatra_40, Bustleton_39, Pherbot_39
- Track 200 : RenegadeRaider_42
- Track 201 : Alakazam_40
- Track 202 : Librie_40, CaptainRex_40, Hasitha_40, Fulton_40
- Track 203 : Clock_40
- Track 204 : Zayuliv_40
- Track 205 : LilTerminator_40
- Track 206 : TwoBits_38
- Track 207 : Nebulous_39
- Track 208 : Zepp_40
- Track 209 : Wardwill_41
- Track 210 : QuadZero_39
- Track 211 : GreenIvy_40
- Track 212 : BaronJohn_41
- Track 213 : Neferthena_41
- Track 214 : Luna18_42, KatChan_42
- Track 215 : Juicer_42, Jemerald_42
- Track 216 : Morrigan_42
- Track 217 : WilliamStrong_40
- Track 218 : Chepli_42
- Track 219 : Schubert_39
- Track 220 : GaeCeo_42, ChickenKing_40
- Track 221 : Cheeto1_42
- Track 222 : Poultruss_39
- Track 223 : JingleBells_40
- Track 224 : Gilda_40, Rachella_40, OverHedge_40, Anakin_40, PhunaPhoke_40, AnnaSerena_40, Pharpay_40, CoolCookie_40, Potty_40, Artiphact_40, NarutoRun_40, Kate_41
- Track 225 : SilentWarrior_40, Crestdrop_40, Hiddenleaf_40, Chivey_40, FreddieHg_40, Annapurna_41
- Track 226 : MortySmith_38
- Track 227 : Kors_43
- Track 228 : Dauntless_39, Erudite_39
- Track 229 : Sparcetuss_42
- Track 230 : Hager_41
- Track 231 : Krampus_40
- Track 232 : Snakehole_40
- Track 233 : TinyMiny_42
- Track 234 : Tongui_41
- Track 235 : RikSengupta_42

- Track 236 : Tedro_40
- Track 237 : DannyDe_40
- Track 238 : Neptune_40, Cybele_40
- Track 239 : Aesir_39, JDawG_39
- Track 240 : Bramble_43
- Track 241 : Rie18_40
- Track 242 : LordBart_42
- Track 243 : Karate_39
- Track 244 : Ajin_42
- Track 245 : Haunter_40
- Track 246 : Dewdrop_117, Leaf_117
- Track 247 : Rasputia_111
- Track 248 : Hendrix_115
- Track 249 : Huwbert_59
- Track 250 : Triscuit_58
- Track 251 : Mbo2_52
- Track 252 : Reynauld_56
- Track 253 : Shrew_71
- Track 254 : Wollypog_43
- Track 255 : Trogglehumper_76
- Track 256 : DocB7_048

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

The start number called the most often in the published annotations is 138, it was called in 140 of the 369 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_42, Agente005_41, 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, CaptainRex_40, Chako_40, Chamuel_40, Cheeto1_42, Chepli_42, ChickenKing_40, Christoph_40, Clancy_40, Convict_41, Dave_41, Delphidian_41, Den3_41, Dothraki_41, Duocatuli_40, Endor_41, Erla_40, Espinosa_40, Etna_40, Etta_40, Exploradora_40, FarmerDoug_40, Figueroism_41, Fulton_40, GaeCeo_42, GardenB_40, Garey24_41, Gargoyle_41, Gelo_40, Gershwin_40, Greenlvy_40, Greys_41, Gubbabump_40, Hamlet_40, HanSolo_40, HankSprout_41, Hasitha_40, HerculesXL_40, HungryHenry_40, Ilzat_40, Inventa_41, Ioannes_41, Janus167_40, JasonD_45, JasperRussell_40, Jemerald_42, Jerbirus_42, JeriBeth_42, Juicer_42, Kale_40, KannH_40, KatChan_42, Klimt_41, Knox_41, Kurt1_41, Leafus_40, Librie_40, LilTerminator_40, Lovelyunicorn_41, Ludgate_41, Luna18_42, MaeLinda_41, ManRay_40, Martin_42, Mercedes_36, MillyPhilly_41, MonChoix_39, MrWorldwide_41, Nagem_41, Nattles_40, 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, PuppyEggo_41, QuadZero_39, Raccoon_40, Rapheph_41, Raptor_41, Redfield_40, Renzie_41, Riyhil_41, Robinson_41, Rog141_40, RosieMae_42, SJay_41, Schimmels22_39, Schnapsidee_40, Schubert_39, Scissor2024_40, Sedgewig_40, ShaiHulud_42, Shee_41, SoilGremlin_42, SonOfLevi_41, Stanktossa_41,

StingRay_40, StirfryIV_40, Stormbreaker8_40, Strathdee_41, Superfresh_41, Symere_42, TatarkaPM_41, Teagan_41, TeddyBear_40, Tenda_40, Thompsone_41, Thorongil_41, TinSulphur_42, Tinyman4_39, Velene_41, Vispistious_41, Wardwill_41, WildNOut_41, WilliamStrong_40, Winzigespinne_40, Zada_42, Zayuliv_40, Zepp_40,

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

- Anilorac_41, BaronJohn_41, HairyMan_38, Ixel_41, KingJulien_40, Morrigan_42, TwoBits_38,

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

- 8UZL_50, ASerpRocky_55, Adgers_62, Aesir_39, Agatha_53, AikoCarson_54, Ajin_42, Alakazam_40, Amok_54, Amore2_62, Anakin_40, Anamika_57, AndPeggy_50, Andromedas_40, AnnaSerena_40, Annapurna_41, Artiphact_40, Austin_61, Axym_52, Azira_49, Barbochs_59, Bavilard_56, Beaver_62, Benczkowski14_57, BenoitCattle_59, Berries_57, Bianmat_57, BigChungus_56, BigShaq_59, BillDoor_53, BirksAndSocks_64, Biskit_55, Blondies_55, Boneham_63, BouleyBill_39, Bramble_43, Breezic_59, Burnsey_53, Bustleton_39, Butterball_62, Button_57, Buttrmlkdreams_55, Camerico_63, CanesSauce_52, CarisSwetlik_44, Carostasia_39, Carsonalex_56, Casey_37, CathyBurgh_58, Charianelly_57, Chelms_59, CherryonLim_57, ChickenTender_56, ChikPic_40, Chivey_40, ChocoMunchkin_52, CinnamonToast_65, Cleo_47, Clock_40, ColaCorta_40, CoolCookie_40, Cozz_51, Crestdrop_40, Crete_60, Cybele_40, Dakiti_60, Damp_57, DannyDe_40, Dauntless_39, Demosthenes_55, Dewdrop_117, Diabla_63, DocB7_048, Dre3_48, Dryad_74, Eggsie_57, Ekhein_59, Eleri_40, Elinal_60, Elliott_53, Emalyn_52, Erudite_39, Exiguo_58, FF47_48, Feastonyeet_56, FelixAlejandro_64, Finny_41, Flakey_58, FreddieHg_40, Fribs8_48, GMA3_58, GMA7_51, GTE2_44, GTE7_50, GalacticEye_57, GiKK_57, Gibbles_56, Gibbous_48, Gibson_70, Gilda_40, Glamour_40, Gmala1_55, GoldHunter_54, Golden_39, GordDuk1_59, GordTnk2_60, Gorko_58, GourdThymes_59, Greenbelt_105, Guetzie_40, Guillaume_57, Hager_41, Hail2Pitt_56, Harambe_57, Haunter_40, HayZem_62, Hello_57, Hendrix_115, Hexbug_60, Hiddenleaf_40, HippoPololi_50, Hollow_57, Horseradish_55, Hotorobo_59, Huwbert_59, JDawG_39, JacoRen57_46, Jams_57, Jamzy_58, Jellybones_61, Jenos_44, JingleBells_40, Jingles_39, John316_62, Jormungandr_57, Juanyo_39, Jumbo_57, Kampe_58, Karate_39, Kaseim_57, Kate_41, Katyusha_57, Kauala_39, KayGee_58, KimJongPhill_74, Koji_39, Kors_43, Krampus_40, Kvothe_56, Lahirium_57, Lauer_52, Leaf_117, Lidong_57, Linetti_59, Lizz_70, Lizzo_59, LordBart_42, Lucky3_39, Luker_58, MAnor_58, MCubed_40, MScarn_57, MaVan_49, Maco6_48, Mandalorian_39, Margaret_58, Mayweather_61, Mbo2_52, McGalleon_43, Minos_58, Monty_58, MortySmith_38, MrWormie_57, Msay19_64, Muddy_50, MunkgeeRoachy_51, NarutoRun_40, Nebulous_39, Neferthena_41, Neoevie_57, Neptune_40, Newt_58, Niagara_57, Nibbles_48, Nimi13_57, Nina_53, NoShow_58, Nodigi_60, Nucci_39, Orchid_57, Orla_60, OverHedge_40, PHTowN_70, PSirce_39, Pajaza_37, PatrickStar_58, Phanita_39, Pharpay_40, Pherbot_39, Philon9_55, PhunaPhoke_40, PierreThree_58, Pikmin_37, PokyPuppy_58, Poland_64, Pons_58, PotPie_56, Potty_40, Poultruss_39, PrincePhergus_39, PsychoKiller_52, Quartz_40, Quasar_53, Rachella_40, RanchParmCat_57, Rasputia_111, RedBaron_56, RemRem_60, RenegadeRaider_42, Reynauld_56, Rie18_40, RikSengupta_42, RobinSparkles_61, Rooney_70, RoyalG_59, Sam12_58, Sansa_39, Saratos_40, ShakeNBake_70, Shamu_41, SheckWes_60, Shelley_57, Shrew_71, SilentWarrior_40, Sinatra_40, SirVictor_40, SketchMex_53, Snakehole_40, Socotra_54, Sombrero_60, Sopespian_50, Sparcetus_42, Squibbles_58,

Starburst_53, SteamedHams_54, SteveFrench_58, Sticker17_57, SummitAcademy_56, Survivors_49, SweatNTears_55, Teal_57, Teatealatte_58, Tedro_40, Teech_56, TinyMiny_42, Tolls_54, Tongui_41, Tredge_57, Triscuit_58, Trogglehumper_76, Troje_55, Typhonmarchy_53, Vine_59, Vitaenoi_55, Wentworth_70, WestPM_37, Wilkos_72, Woes_57, Wollypog_43, Worcestershire_59, Yakult_55, Yara_66, Yarn_50, Yucky_60, Yummy_55, YuuY_40, Zareef_51, Zenitsu_40, Zuko_72,

Summary by start number:

Start 7:

- Found in 4 of 435 (0.9%) of genes in pham
- Manual Annotations of this start: 4 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dewdrop_117 (GC), Hendrix_115 (GC), Leaf_117 (GC), Rasputia_111 (GC),

Start 8:

- Found in 7 of 435 (1.6%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 14.3% of time when present
- Phage (with cluster) where this start called: TinyMiny_42 (EF),

Start 14:

- Found in 1 of 435 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greenbelt_105 (BN),

Start 17:

- Found in 9 of 435 (2.1%) of genes in pham
- Manual Annotations of this start: 8 of 369
- Called 100.0% 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), ShakeNBake_70 (BN), Wentworth_70 (BN), Wilkos_72 (BN), Yara_66 (BN),

Start 19:

- Found in 1 of 435 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_43 (singleton),

Start 22:

- Found in 44 of 435 (10.1%) of genes in pham
- Manual Annotations of this start: 31 of 369
- Called 81.8% of time when present
- Phage (with cluster) where this start called: Aesir_39 (EF), Anakin_40 (EF), AnnaSerena_40 (EF), Annapurna_41 (EF), Artiphact_40 (EF), Chivey_40 (EF), CoolCookie_40 (EF), Crestdrop_40 (EF), Cybele_40 (EF), DannyDe_40 (EF), Dauntless_39 (EF), Erudite_39 (EF), FreddieHg_40 (EF), Gilda_40 (EF), Hager_41 (EF), Haunter_40 (EF), Hiddenleaf_40 (EF), JDawG_39 (EF), JingleBells_40 (EF), Karate_39 (EF), Kate_41 (EF), Krampus_40 (EF), MortySmith_38 (EF),

NarutoRun_40 (EF), Neptune_40 (EF), OverHedge_40 (EF), Pharpay_40 (EF), PhunaPhoke_40 (EF), Potty_40 (EF), Poultruss_39 (EF), Rachella_40 (EF), Rie18_40 (EF), SilentWarrior_40 (EF), Snakehole_40 (EF), Tedro_40 (EF), Tongui_41 (EF),

Start 23:

- Found in 7 of 435 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 369
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Ajin_42 (EF), Bramble_43 (EF), Kors_43 (EF), LordBart_42 (EF), RikSengupta_42 (EF), Sparcetus_42 (EF),

Start 36:

- Found in 12 of 435 (2.8%) of genes in pham
- Manual Annotations of this start: 6 of 369
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Benczkowski14_57 (CS4), Hollow_57 (CS4), Katyusha_57 (CS4), Niagara_57 (CS4), Teatealatte_58 (CS4), Tredge_57 (CS4),

Start 40:

- Found in 15 of 435 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 369
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Demosthenes_55 (CS4), Kvothe_56 (CS4), Teech_56 (CS4),

Start 49:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 3 of 369
- 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 78:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 60.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_55 (CS4), Philon9_55 (CS4), Vitaenoi_55 (CS4),

Start 86:

- Found in 6 of 435 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Anilorac_41 (EA1),

Start 89:

- Found in 64 of 435 (14.7%) of genes in pham
- Manual Annotations of this start: 3 of 369
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Charianelly_57 (CS3), CinnamonToast_65 (CS2), Eggsie_57 (CS2), Woes_57 (CS3),

Start 92:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 369
- Called 80.0% of time when present
- Phage (with cluster) where this start called: 8UZL_50 (AB), FF47_48 (AB), Maco6_48 (AB), Muddy_50 (AB),

Start 96:

- Found in 6 of 435 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: CarisSwetlik_44 (EA1),

Start 101:

- Found in 4 of 435 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 369
- Called 50.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_74 (BR), Zuko_72 (BR),

Start 105:

- Found in 2 of 435 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Triscuit_58 (GG),

Start 106:

- Found in 6 of 435 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kaseim_57 (CS3), Luker_58 (CS3), RedBaron_56 (CT),

Start 107:

- Found in 2 of 435 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Huwbert_59 (GG),

Start 108:

- Found in 45 of 435 (10.3%) of genes in pham
- Manual Annotations of this start: 25 of 369
- Called 64.4% of time when present
- Phage (with cluster) where this start called: Adgers_62 (CS2), Barbochs_59 (CS2), Beaver_62 (CS2), BigShaq_59 (CS2), BirksAndSocks_64 (CS2), Boneham_63 (CS2), Breezic_59 (CS2), Butterball_62 (CS2), CathyBurgh_58 (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), 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 109:

- Found in 50 of 435 (11.5%) of genes in pham
- Manual Annotations of this start: 35 of 369
- Called 96.0% 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), Bavidard_56 (CT), BigChungus_56 (CT), BillDoor_53 (CT), Biskit_55 (CT), Blondies_55 (CT), Burnsey_53 (CT), Buttrmlkdreams_55 (CT), CanesSauce_52 (CT), CherryonLim_57 (CT), ChickenTender_56 (CT), ChocoMunchkin_52 (CT), Cozz_51 (CT), Elinal_60 (CT), Elliott_53 (CT), Emalyn_52 (CT), Feastonyeet_56 (CT), GoldHunter_54 (CT), Horseradish_55 (CT), KayGee_58 (CT), Lauer_52 (CT), MAnor_58 (CT), MScarn_57 (CT), MunkgeeRoachy_51 (CT), Nina_53 (CT), Pons_58 (CT), PotPie_56 (CT), PsychoKiller_52 (CT), Quasar_53 (CT), SheckWes_60 (CT), SketchMex_53 (CT), Socotra_54 (CT), Sopespian_50 (CT), Starburst_53 (CT), SteamedHams_54 (CT), SummitAcademy_56 (CT), SweatNTears_55 (CT), Tolls_54 (CT), Troje_55 (CT), Typhonomachy_53 (CT), Vine_59 (CT), Yarn_50 (CT), Yucky_60 (CT), Yummy_55 (CT),

Start 110:

- Found in 1 of 435 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shrew_71 (singleton),

Start 111:

- Found in 7 of 435 (1.6%) of genes in pham
- Manual Annotations of this start: 6 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azira_49 (CT), Cleo_47 (CT), HippoPololi_50 (CT), MaVan_49 (CT), Nibbles_48 (CT), Survivors_49 (CT), Zareef_51 (CT),

Start 112:

- Found in 18 of 435 (4.1%) of genes in pham
- Manual Annotations of this start: 12 of 369
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Button_57 (CT), Dre3_48 (CT), Fribs8_48 (CT), GiKK_57 (CT), Gibbous_48 (CT), Hexbug_60 (CT), Jamzy_58 (CT), Margaret_58 (CT), Nodigi_60 (CT), Orla_60 (CT), RanchParmCat_57 (CT), Yakult_55 (CT),

Start 113:

- Found in 55 of 435 (12.6%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Trogglehumper_76 (singleton),

Start 114:

- Found in 14 of 435 (3.2%) of genes in pham
- Manual Annotations of this start: 2 of 369
- Called 14.3% of time when present
- Phage (with cluster) where this start called: JacoRen57_46 (AB), NoShow_58 (AB),

Start 119:

- Found in 3 of 435 (0.7%) 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 120:

- Found in 1 of 435 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PokyPuppy_58 (CS2),

Start 124:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 5 of 369
- 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 126:

- Found in 6 of 435 (1.4%) of genes in pham
- Manual Annotations of this start: 3 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camerico_63 (DF), DocB7_048 (singleton), GMA3_58 (DF2), Jumbo_57 (DF3), Mbo2_52 (singleton), Reynauld_56 (singleton),

Start 135:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 2 of 369
- Called 60.0% of time when present
- Phage (with cluster) where this start called: BouleyBill_39 (EA4), Jingles_39 (EA4), Kauala_39 (EA4),

Start 136:

- Found in 6 of 435 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 369
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Alakazam_40 (EA5), Clock_40 (EA5), Nebulous_39 (EA5), Neferthena_41 (EA5),

Start 137:

- Found in 1 of 435 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WestPM_37 (EA11),

Start 138:

- Found in 156 of 435 (35.9%) of genes in pham
- Manual Annotations of this start: 140 of 369
- Called 95.5% of time when present
- Phage (with cluster) where this start called: Acosta_42 (EA1), Agente005_41 (EA1), 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), CaptainRex_40 (EA5), Chako_40 (EA1), Chamuel_40 (EA1), Cheeto1_42 (EA9), Chepli_42 (EA6), ChickenKing_40 (EA9), Christoph_40 (EA1), Clancy_40 (EA1), Convict_41 (EA1), Dave_41 (EA1), Delphidian_41 (EA1), Den3_41 (EA1), 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), Fulton_40 (EA5), GaeCeo_42 (EA9), GardenB_40 (EA1), Garey24_41 (EA1), Gargoyle_41 (EA1), Gelo_40 (EA1), Gershwin_40 (EA1), Greenlvy_40 (EA5), Greys_41 (EA1), Gubbabump_40 (EA1), Hamlet_40 (EA1), HanSolo_40 (EA1), HankSprout_41 (EA1), Hasitha_40 (EA5), HerculesXL_40 (EA11), HungryHenry_40 (EA1), Ilzat_40 (EA1), Inventa_41 (EA1), Ioannes_41 (EA1), Janus167_40 (EA1), JasonD_45 (EA1), JasperRussell_40 (EA1), Jemerald_42 (EA6), Jerbirus_42 (EA1), JeriBeth_42 (EA1), Juicer_42 (EA6), Kale_40 (EA1), KannH_40 (EA1), KatChan_42 (EA6), Klimt_41 (EA1), Knox_41 (EA1), Kurt1_41 (EA1), Leafus_40 (EA1), Librie_40 (EA5), LilTerminator_40 (EA5), Lovelyunicorn_41 (EA1), Ludgate_41 (EA1), Luna18_42 (EA6), MaeLinda_41 (EA1), ManRay_40 (EA1), Martin_42 (EA1), Mercedes_36 (EA), MillyPhilly_41 (EA1), MonChoix_39 (EA1), MrWorldwide_41 (EA1), Nagem_41 (EA1), Nattles_40 (EA1), NickSell_41 (EA1), Oats_40 (EA1), OldNelly_42 (EA1), Oxtober96_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), PuppyEggo_41 (EA1), QuadZero_39 (EA5), Raccoon_40 (EA1), Rappheph_41 (EA1), Raptor_41 (EA1), Redfield_40 (EA1), Renzie_41 (EA1), Riyhil_41 (EA1), Robinson_41 (EA1), Rog141_40 (EA1), RosieMae_42 (EA1), SJay_41 (EA1), Schimmels22_39 (EA11), Schnapsidee_40 (EA1), Schubert_39 (EA8), Scissor2024_40 (EA11), Sedgewig_40 (EA1), ShaiHulud_42 (EA1), Shee_41 (EA1), SoilGremlin_42 (EA1), SonOfLevi_41 (EA1), Stanktossa_41 (EA1), StingRay_40 (EA1), StirfryIV_40 (EA1), Stormbreaker8_40 (EA1), Strathdee_41 (EA1), Superfresh_41 (EA1), Symere_42 (EA1), TatarkaPM_41 (EA1), Teagan_41 (EA1), TeddyBear_40 (EA1), Tenda_40 (EA1), Thompsone_41 (EA1), Thorongil_41 (EA1), TinSulphur_42 (EA1), Tinyman4_39 (EA11), Velene_41 (EA1), Vispistious_41 (EA1), Wardwill_41 (EA5), WildNOut_41 (EA1), WilliamStrong_40 (EA6), Winzigespinne_40 (EA1), Zada_42 (EA1), Zayuliv_40 (EA5), Zepp_40 (EA5),

Start 140:

- Found in 30 of 435 (6.9%) of genes in pham
- Manual Annotations of this start: 10 of 369
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Bustleton_39 (EA4), Golden_39 (EA4), Jenos_44 (EA1), Koji_39 (EA4), Lucky3_39 (EA4), McGalleon_43 (EA1), Morrigan_42 (EA6), Pherbot_39 (EA4), PrincePhergus_39 (EA4), Sinatra_40 (EA4),

Start 141:

- Found in 41 of 435 (9.4%) of genes in pham
- Manual Annotations of this start: 21 of 369
- Called 53.7% 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), Juanyo_39 (EA10), MCubed_40 (EA2), Mandalorian_39 (EA10), Nucci_39 (EA10), PSirce_39 (EA2), Pajaza_37 (EA3),

Pikmin_37 (EA3), Quartz_40 (EA10), Sansa_39 (EA2), Saratos_40 (EA2), Shamu_41 (EA2), SirVictor_40 (EA4), YuuY_40 (EA10), Zenitsu_40 (EA2),

Start 144:

- Found in 82 of 435 (18.9%) of genes in pham
- No Manual Annotations of this start.
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Carsonalex_56 (CT), GTE2_44 (CT),

Start 147:

- Found in 89 of 435 (20.5%) of genes in pham
- Manual Annotations of this start: 27 of 369
- Called 32.6% of time when present
- Phage (with cluster) where this start called: Anamika_57 (CS3), BaronJohn_41 (EA5), 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), 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 149:

- Found in 61 of 435 (14.0%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Finny_41 (EA2), Phanita_39 (EA2),

Start 167:

- Found in 5 of 435 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Ixel_41 (EA11), TwoBits_38 (EA5),

Start 181:

- Found in 204 of 435 (46.9%) of genes in pham
- No Manual Annotations of this start.
- Called 1.0% of time when present
- Phage (with cluster) where this start called: HairyMan_38 (EA10), RenegadeRaider_42 (EA4),

Start 183:

- Found in 282 of 435 (64.8%) of genes in pham
- Manual Annotations of this start: 1 of 369
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Mayweather_61 (CT),

Start 201:

- Found in 53 of 435 (12.2%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: KingJulien_40 (EA1),

Summary by clusters:

There are 28 clusters represented in this pham: singleton, DF, BN, BR, DF1, DF3, DF2, CS4, EA6, CS1, CS3, CS2, AB, EF, EA, EA9, EA8, CX, GC, EA1, EA3, EA2, EA5, EA4, CT, GG, EA11, EA10,

Info for manual annotations of cluster AB:

- Start number 92 was manually annotated 2 times for cluster AB.
- Start number 114 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster BN:

- Start number 17 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster BR:

- Start number 101 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CS1:

- Start number 49 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 89 was manually annotated 1 time for cluster CS2.
- Start number 108 was manually annotated 25 times for cluster CS2.
- Start number 120 was manually annotated 1 time for cluster CS2.
- Start number 147 was manually annotated 6 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 89 was manually annotated 2 times for cluster CS3.
- Start number 106 was manually annotated 1 time for cluster CS3.
- Start number 147 was manually annotated 21 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 36 was manually annotated 6 times for cluster CS4.
- Start number 40 was manually annotated 2 times for cluster CS4.
- Start number 78 was manually annotated 1 time for cluster CS4.

Info for manual annotations of cluster CT:

- Start number 109 was manually annotated 35 times for cluster CT.
- Start number 111 was manually annotated 6 times for cluster CT.
- Start number 112 was manually annotated 12 times for cluster CT.
- Start number 183 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster CX:

- Start number 124 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DF:

- Start number 126 was manually annotated 1 time for cluster DF.

Info for manual annotations of cluster DF3:

- Start number 126 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster EA:

- Start number 138 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 138 was manually annotated 118 times for cluster EA1.
- Start number 140 was manually annotated 2 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 141 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 137 was manually annotated 1 time for cluster EA11.
- Start number 138 was manually annotated 3 times for cluster EA11.
- Start number 167 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 141 was manually annotated 10 times for cluster EA2.
- Start number 149 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 141 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 135 was manually annotated 2 times for cluster EA4.
- Start number 140 was manually annotated 7 times for cluster EA4.
- Start number 141 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 136 was manually annotated 4 times for cluster EA5.
- Start number 138 was manually annotated 8 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 138 was manually annotated 6 times for cluster EA6.
- Start number 140 was manually annotated 1 time for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 138 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 138 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 8 was manually annotated 1 time for cluster EF.
- Start number 22 was manually annotated 31 times for cluster EF.
- Start number 23 was manually annotated 3 times for cluster EF.

Info for manual annotations of cluster GC:

- Start number 7 was manually annotated 4 times for cluster GC.

Info for manual annotations of cluster GG:

- Start number 105 was manually annotated 1 time for cluster GG.
- Start number 107 was manually annotated 1 time for cluster GG.

Gene Information:

Gene: 8UZL_50 Start: 38971, Stop: 37460, Start Num: 92

Candidate Starts for 8UZL_50:

(Start: 92 @38971 has 2 MA's), (Start: 112 @38935 has 12 MA's), (143, 38845), (144, 38842), (154, 38794), (172, 38725), (213, 38611), (253, 38482), (261, 38431), (263, 38425), (266, 38419), (270, 38395), (281, 38341), (313, 38200), (314, 38197), (331, 38140), (347, 38068), (348, 38065), (414, 37870), (427, 37825), (450, 37720), (465, 37660), (505, 37492), (511, 37471),

Gene: ASerpRocky_55 Start: 52672, Stop: 51098, Start Num: 78

Candidate Starts for ASerpRocky_55:

(Start: 36 @52804 has 6 MA's), (Start: 40 @52792 has 2 MA's), (73, 52693), (Start: 78 @52672 has 1 MA's), (Start: 114 @52606 has 2 MA's), (150, 52507), (160, 52471), (165, 52447), (168, 52438), (170, 52429), (Start: 183 @52381 has 1 MA's), (190, 52357), (201, 52315), (210, 52300), (232, 52225), (251, 52165), (252, 52162), (266, 52096), (267, 52093), (275, 52057), (276, 52054), (284, 52027), (287, 52015), (294, 51967), (303, 51934), (309, 51910), (320, 51886), (325, 51862), (343, 51796), (365, 51697), (389, 51598), (399, 51565), (400, 51562), (444, 51445), (445, 51442), (457, 51385), (462, 51367), (483, 51250), (484, 51247), (488, 51235), (518, 51136), (525, 51115),

Gene: Acosta_42 Start: 31547, Stop: 30141, Start Num: 138

Candidate Starts for Acosta_42:

(43, 31790), (94, 31649), (96, 31646), (98, 31643), (Start: 138 @31547 has 140 MA's), (181, 31400), (Start: 183 @31394 has 1 MA's), (221, 31277), (229, 31250), (243, 31190), (251, 31163), (252, 31160), (253, 31157), (272, 31064), (280, 31022), (319, 30860), (323, 30851), (328, 30830), (332, 30824), (362, 30731), (373, 30695), (380, 30671), (405, 30596), (440, 30482), (452, 30422), (459, 30398), (460, 30392), (464, 30380), (490, 30257), (497, 30230), (504, 30203),

Gene: Adgers_62 Start: 52192, Stop: 50660, Start Num: 108

Candidate Starts for Adgers_62:

(26, 52447), (34, 52396), (66, 52291), (76, 52261), (Start: 89 @52228 has 3 MA's), (97, 52219), (Start: 108 @52192 has 25 MA's), (160, 52024), (170, 51982), (176, 51964), (Start: 183 @51934 has 1 MA's), (187, 51922), (190, 51910), (192, 51904), (197, 51883), (253, 51715), (272, 51628), (275, 51613), (280, 51601), (287, 51571), (320, 51442), (330, 51400), (336, 51382), (338, 51379), (340, 51370), (343, 51352), (365, 51265), (400, 51130), (403, 51115), (409, 51094), (444, 51013), (445, 51010), (457, 50953), (459, 50947), (462, 50935), (473, 50884), (477, 50860), (483, 50821), (487, 50809), (488, 50806), (515, 50713), (518, 50698),

Gene: Aesir_39 Start: 25591, Stop: 27498, Start Num: 22

Candidate Starts for Aesir_39:

(4, 25417), (Start: 22 @25591 has 31 MA's), (27, 25654), (30, 25675), (45, 25729), (93, 25864), (Start: 113 @25906 has 1 MA's), (130, 25951), (177, 26125), (181, 26134), (210, 26224), (221, 26266), (224, 26281), (266, 26467), (290, 26602), (292, 26614), (300, 26647), (326, 26740), (339, 26776), (362, 26866), (371, 26893), (450, 27202), (451, 27205), (465, 27265), (483, 27355), (492, 27385), (504, 27427), (520, 27478),

Gene: Agatha_53 Start: 38842, Stop: 37364, Start Num: 109

Candidate Starts for Agatha_53:

(Start: 109 @38842 has 35 MA's), (142, 38755), (144, 38749), (168, 38647), (211, 38524), (212, 38521), (261, 38338), (263, 38332), (266, 38326), (281, 38248), (304, 38134), (313, 38107), (323, 38083), (339, 38023), (347, 37978), (354, 37957), (369, 37918), (374, 37900), (413, 37783), (427, 37735), (428, 37732), (433, 37717), (453, 37621), (459, 37600), (465, 37570),

Gene: Agente005_41 Start: 31381, Stop: 29990, Start Num: 138

Candidate Starts for Agente005_41:

(Start: 138 @31381 has 140 MA's), (181, 31234), (Start: 183 @31228 has 1 MA's), (184, 31225), (221, 31111), (243, 31024), (251, 30997), (252, 30994), (272, 30898), (280, 30856), (323, 30685), (328, 30664), (339, 30637), (348, 30589), (373, 30529), (440, 30316), (443, 30298), (459, 30232), (460, 30226), (464, 30214), (481, 30118), (497, 30064), (498, 30061), (513, 30007),

Gene: AikoCarson_54 Start: 39107, Stop: 37629, Start Num: 109

Candidate Starts for AikoCarson_54:

(Start: 109 @39107 has 35 MA's), (142, 39020), (144, 39014), (168, 38912), (201, 38813), (209, 38795), (211, 38789), (214, 38780), (252, 38657), (261, 38603), (263, 38597), (266, 38591), (281, 38513), (304, 38399), (313, 38372), (323, 38348), (332, 38309), (343, 38267), (347, 38243), (354, 38222), (374, 38165), (413, 38048), (427, 38000), (428, 37997), (433, 37982), (453, 37886), (459, 37865), (465, 37835), (472, 37805), (505, 37667),

Gene: Ajin_42 Start: 26641, Stop: 28575, Start Num: 23

Candidate Starts for Ajin_42:

(3, 26401), (Start: 8 @26545 has 1 MA's), (21, 26635), (Start: 23 @26641 has 3 MA's), (45, 26788), (50, 26806), (54, 26815), (Start: 113 @26965 has 1 MA's), (152, 27091), (177, 27181), (181, 27190), (210, 27280), (221, 27322), (226, 27352), (256, 27484), (292, 27670), (296, 27688), (300, 27703), (317, 27760), (335, 27820), (352, 27892), (388, 28030), (407, 28096), (414, 28126), (439, 28204), (451, 28282), (465, 28342), (474, 28381), (483, 28432), (490, 28450), (522, 28558),

Gene: Alakazam_40 Start: 30804, Stop: 29374, Start Num: 136

Candidate Starts for Alakazam_40:

(Start: 136 @30804 has 4 MA's), (146, 30771), (Start: 183 @30651 has 1 MA's), (184, 30648), (201, 30588), (218, 30537), (225, 30516), (228, 30504), (251, 30411), (252, 30408), (279, 30276), (303, 30153), (323, 30096), (328, 30075), (339, 30048), (341, 30036), (344, 30015), (359, 29958), (362, 29937), (373, 29901), (377, 29889), (391, 29847), (399, 29820), (404, 29805), (424, 29742), (429, 29730), (450, 29634), (453, 29625), (457, 29610), (459, 29604), (460, 29598), (484, 29481), (490, 29463), (492, 29451), (504, 29409),

Gene: AlexAdler_41 Start: 31109, Stop: 29721, Start Num: 138

Candidate Starts for AlexAdler_41:

(52, 31331), (Start: 138 @31109 has 140 MA's), (181, 30965), (Start: 183 @30959 has 1 MA's), (184, 30956), (221, 30842), (229, 30815), (243, 30755), (251, 30728), (252, 30725), (272, 30629), (280, 30587), (323, 30416), (328, 30395), (335, 30380), (339, 30368), (348, 30320), (373, 30260), (404, 30164), (424, 30101), (440, 30047), (459, 29963), (460, 29957), (464, 29945), (481, 29849), (497, 29795), (498, 29792), (504, 29768),

Gene: Alyxandracam_41 Start: 31119, Stop: 29731, Start Num: 138

Candidate Starts for Alyxandracam_41:

(2, 31770), (31, 31416), (52, 31341), (Start: 138 @31119 has 140 MA's), (181, 30975), (Start: 183 @30969 has 1 MA's), (184, 30966), (221, 30852), (229, 30825), (243, 30765), (251, 30738), (252, 30735), (272, 30639), (280, 30597), (323, 30426), (335, 30390), (339, 30378), (344, 30345), (348, 30330), (373, 30270), (404, 30174), (424, 30111), (440, 30057), (459, 29973), (460, 29967), (464, 29955), (481, 29859), (497, 29805), (498, 29802), (504, 29778),

Gene: Amok_54 Start: 39035, Stop: 37557, Start Num: 109

Candidate Starts for Amok_54:

(Start: 109 @39035 has 35 MA's), (142, 38948), (144, 38942), (168, 38840), (Start: 183 @38798 has 1 MA's), (201, 38741), (209, 38723), (211, 38717), (252, 38585), (261, 38531), (263, 38525), (266, 38519), (281, 38441), (304, 38327), (313, 38300), (323, 38276), (332, 38237), (343, 38195), (347, 38171), (354, 38150), (372, 38102), (374, 38093), (413, 37976), (427, 37928), (433, 37910), (453,

37814), (459, 37793), (465, 37763), (472, 37733), (505, 37595),

Gene: Amore2_62 Start: 52713, Stop: 51082, Start Num: 49

Candidate Starts for Amore2_62:

(Start: 49 @52713 has 3 MA's), (55, 52701), (74, 52650), (75, 52644), (103, 52587), (160, 52446), (170, 52404), (174, 52392), (Start: 183 @52356 has 1 MA's), (184, 52353), (192, 52326), (201, 52290), (209, 52278), (216, 52263), (247, 52155), (272, 52050), (275, 52035), (303, 51912), (320, 51864), (325, 51840), (330, 51822), (343, 51774), (356, 51723), (365, 51687), (371, 51669), (400, 51552), (420, 51501), (440, 51459), (451, 51399), (462, 51357), (473, 51306), (477, 51282), (518, 51120), (525, 51099),

Gene: Anakin_40 Start: 25911, Stop: 27818, Start Num: 22

Candidate Starts for Anakin_40:

(Start: 22 @25911 has 31 MA's), (27, 25974), (30, 25995), (45, 26049), (Start: 113 @26226 has 1 MA's), (130, 26271), (177, 26445), (181, 26454), (210, 26544), (224, 26601), (266, 26787), (290, 26922), (292, 26934), (300, 26967), (339, 27096), (371, 27213), (393, 27288), (450, 27522), (451, 27525), (465, 27585), (483, 27675), (492, 27705), (504, 27747), (520, 27798),

Gene: Anamika_57 Start: 52887, Stop: 51475, Start Num: 147

Candidate Starts for Anamika_57:

(26, 53235), (58, 53106), (87, 53019), (Start: 89 @53016 has 3 MA's), (Start: 147 @52887 has 27 MA's), (160, 52842), (Start: 183 @52752 has 1 MA's), (184, 52749), (186, 52743), (192, 52722), (216, 52659), (247, 52551), (253, 52533), (272, 52446), (275, 52431), (287, 52389), (303, 52308), (320, 52260), (330, 52218), (336, 52200), (338, 52197), (343, 52170), (356, 52119), (365, 52083), (380, 52032), (400, 51948), (406, 51927), (457, 51771), (459, 51765), (462, 51753), (487, 51627), (518, 51513),

Gene: AndPeggy_50 Start: 38315, Stop: 36837, Start Num: 109

Candidate Starts for AndPeggy_50:

(Start: 109 @38315 has 35 MA's), (144, 38222), (Start: 149 @38195 has 1 MA's), (168, 38120), (Start: 183 @38078 has 1 MA's), (211, 37997), (252, 37865), (261, 37811), (266, 37799), (281, 37721), (304, 37607), (313, 37580), (323, 37556), (332, 37517), (347, 37451), (354, 37430), (374, 37373), (413, 37256), (427, 37208), (433, 37190), (453, 37094), (459, 37073), (465, 37043),

Gene: Andromedas_40 Start: 31099, Stop: 29687, Start Num: 141

Candidate Starts for Andromedas_40:

(Start: 141 @31099 has 21 MA's), (Start: 147 @31069 has 27 MA's), (Start: 149 @31063 has 1 MA's), (159, 31030), (221, 30838), (229, 30811), (243, 30751), (251, 30724), (252, 30721), (258, 30679), (272, 30625), (280, 30583), (303, 30469), (323, 30412), (328, 30391), (335, 30376), (339, 30364), (341, 30352), (342, 30349), (344, 30331), (362, 30250), (373, 30214), (391, 30160), (402, 30118), (414, 30088), (420, 30064), (423, 30058), (438, 30016), (450, 29947), (457, 29923), (459, 29917), (460, 29911), (464, 29899), (481, 29803), (484, 29794), (490, 29776), (492, 29764), (505, 29719),

Gene: Anilorac_41 Start: 31339, Stop: 29834, Start Num: 86

Candidate Starts for Anilorac_41:

(76, 31363), (86, 31339), (100, 31318), (129, 31255), (Start: 138 @31225 has 140 MA's), (181, 31078), (Start: 183 @31072 has 1 MA's), (184, 31069), (221, 30955), (243, 30868), (251, 30841), (252, 30838), (272, 30742), (280, 30700), (323, 30529), (328, 30508), (339, 30481), (348, 30433), (373, 30373), (440, 30160), (443, 30142), (457, 30082), (459, 30076), (460, 30070), (464, 30058), (481, 29962), (497, 29908), (498, 29905), (513, 29851),

Gene: AnnaSerena_40 Start: 25946, Stop: 27853, Start Num: 22

Candidate Starts for AnnaSerena_40:

(Start: 22 @25946 has 31 MA's), (27, 26009), (30, 26030), (45, 26084), (Start: 113 @26261 has 1 MA's), (130, 26306), (177, 26480), (181, 26489), (210, 26579), (224, 26636), (266, 26822), (290, 26957), (292, 26969), (300, 27002), (339, 27131), (371, 27248), (393, 27323), (450, 27557), (451, 27560), (465, 27620), (483, 27710), (492, 27740), (504, 27782), (520, 27833),

Gene: Annapurna_41 Start: 25220, Stop: 27127, Start Num: 22

Candidate Starts for Annapurna_41:

(4, 25046), (Start: 22 @25220 has 31 MA's), (27, 25283), (30, 25304), (45, 25358), (93, 25493), (Start: 113 @25535 has 1 MA's), (130, 25580), (177, 25754), (181, 25763), (210, 25853), (221, 25895), (224, 25910), (266, 26096), (290, 26231), (292, 26243), (300, 26276), (339, 26405), (371, 26522), (444, 26795), (451, 26834), (465, 26894), (483, 26984), (492, 27014), (504, 27056), (520, 27107),

Gene: Antoinette_41 Start: 31109, Stop: 29721, Start Num: 138

Candidate Starts for Antoinette_41:

(52, 31331), (Start: 138 @31109 has 140 MA's), (181, 30965), (Start: 183 @30959 has 1 MA's), (184, 30956), (221, 30842), (229, 30815), (243, 30755), (251, 30728), (252, 30725), (272, 30629), (280, 30587), (323, 30416), (328, 30395), (335, 30380), (339, 30368), (348, 30320), (373, 30260), (404, 30164), (424, 30101), (440, 30047), (459, 29963), (460, 29957), (464, 29945), (478, 29870), (481, 29849), (497, 29795), (498, 29792), (504, 29768),

Gene: AranulaLuti_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for AranulaLuti_40:

(1, 31619), (2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Artiphact_40 Start: 25935, Stop: 27842, Start Num: 22

Candidate Starts for Artiphact_40:

(Start: 22 @25935 has 31 MA's), (27, 25998), (30, 26019), (45, 26073), (Start: 113 @26250 has 1 MA's), (130, 26295), (177, 26469), (181, 26478), (210, 26568), (224, 26625), (266, 26811), (290, 26946), (292, 26958), (300, 26991), (339, 27120), (371, 27237), (393, 27312), (450, 27546), (451, 27549), (465, 27609), (483, 27699), (492, 27729), (504, 27771), (520, 27822),

Gene: Asta_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for Asta_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (271, 30339), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (339, 30075), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (478, 29577), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: Aubergine_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for Aubergine_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: Austin_61 Start: 52711, Stop: 51080, Start Num: 49

Candidate Starts for Austin_61:

(Start: 49 @52711 has 3 MA's), (55, 52699), (74, 52648), (75, 52642), (103, 52585), (160, 52444), (170, 52402), (174, 52390), (Start: 183 @52354 has 1 MA's), (184, 52351), (192, 52324), (201, 52288), (209, 52276), (216, 52261), (247, 52153), (272, 52048), (275, 52033), (303, 51910), (320, 51862), (325, 51838), (330, 51820), (343, 51772), (356, 51721), (365, 51685), (371, 51667), (400, 51550), (420, 51499), (440, 51457), (451, 51397), (462, 51355), (473, 51304), (477, 51280), (518, 51118), (525, 51097),

Gene: AxiPup_41 Start: 31088, Stop: 29700, Start Num: 138

Candidate Starts for AxiPup_41:

(2, 31739), (31, 31385), (52, 31310), (Start: 138 @31088 has 140 MA's), (181, 30944), (Start: 183 @30938 has 1 MA's), (184, 30935), (221, 30821), (229, 30794), (243, 30734), (251, 30707), (252, 30704), (272, 30608), (280, 30566), (323, 30395), (328, 30374), (339, 30347), (348, 30299), (373, 30239), (424, 30080), (440, 30026), (459, 29942), (460, 29936), (464, 29924), (481, 29828), (497, 29774), (498, 29771), (504, 29747),

Gene: Axym_52 Start: 38739, Stop: 37261, Start Num: 109

Candidate Starts for Axym_52:

(Start: 109 @38739 has 35 MA's), (142, 38652), (144, 38646), (161, 38565), (168, 38544), (211, 38421), (212, 38418), (261, 38235), (263, 38229), (266, 38223), (281, 38145), (304, 38031), (313, 38004), (323, 37980), (339, 37920), (347, 37875), (354, 37854), (369, 37815), (374, 37797), (413, 37680), (427, 37632), (428, 37629), (433, 37614), (453, 37518), (459, 37497), (465, 37467),

Gene: Azira_49 Start: 37909, Stop: 36419, Start Num: 111

Candidate Starts for Azira_49:

(Start: 111 @37909 has 6 MA's), (144, 37819), (Start: 149 @37792 has 1 MA's), (160, 37750), (172, 37702), (Start: 183 @37675 has 1 MA's), (211, 37594), (212, 37591), (214, 37585), (219, 37564), (236, 37498), (261, 37408), (266, 37396), (279, 37333), (281, 37318), (285, 37303), (309, 37186), (313, 37177), (337, 37099), (343, 37072), (344, 37060), (347, 37048), (362, 37009), (369, 36988), (370, 36985), (374, 36970), (394, 36898), (414, 36829), (427, 36784), (440, 36739), (441, 36724), (446, 36694), (453, 36670), (465, 36619), (472, 36589), (485, 36523), (491, 36499), (501, 36466), (511, 36430),

Gene: Baines_40 Start: 30809, Stop: 29421, Start Num: 138

Candidate Starts for Baines_40:

(52, 31031), (Start: 138 @30809 has 140 MA's), (181, 30665), (Start: 183 @30659 has 1 MA's), (184, 30656), (221, 30542), (229, 30515), (243, 30455), (251, 30428), (252, 30425), (272, 30329), (280, 30287), (323, 30116), (328, 30095), (335, 30080), (339, 30068), (348, 30020), (373, 29960), (404, 29864), (424, 29801), (440, 29747), (459, 29663), (460, 29657), (464, 29645), (478, 29570), (481, 29549), (497, 29495), (498, 29492), (504, 29468),

Gene: Balsa_40 Start: 31258, Stop: 29867, Start Num: 138

Candidate Starts for Balsa_40:

(86, 31372), (129, 31288), (Start: 138 @31258 has 140 MA's), (181, 31111), (Start: 183 @31105 has 1 MA's), (184, 31102), (221, 30988), (229, 30961), (243, 30901), (251, 30874), (252, 30871), (272, 30775), (280, 30733), (323, 30562), (328, 30541), (339, 30514), (373, 30406), (404, 30310), (440, 30193), (443, 30175), (459, 30109), (460, 30103), (481, 29995), (497, 29941), (498, 29938), (504, 29914), (513, 29884),

Gene: Bandik_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Bandik_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (302, 30481), (323, 30421), (335, 30385), (339, 30373), (344,

30340), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Barbochs_59 Start: 51736, Stop: 50204, Start Num: 108

Candidate Starts for Barbochs_59:

(26, 51991), (34, 51940), (47, 51889), (66, 51835), (76, 51805), (Start: 89 @51772 has 3 MA's), (97, 51763), (Start: 108 @51736 has 25 MA's), (160, 51568), (170, 51526), (Start: 183 @51478 has 1 MA's), (187, 51466), (190, 51454), (192, 51448), (197, 51427), (209, 51400), (253, 51259), (272, 51172), (275, 51157), (280, 51145), (287, 51115), (295, 51064), (302, 51037), (320, 50986), (325, 50962), (330, 50944), (336, 50926), (338, 50923), (343, 50896), (353, 50854), (365, 50809), (400, 50674), (403, 50659), (409, 50638), (440, 50581), (444, 50557), (457, 50497), (459, 50491), (460, 50485), (462, 50479), (473, 50428), (477, 50404), (483, 50365), (487, 50353), (488, 50350), (515, 50257), (518, 50242), (525, 50221),

Gene: BaronJohn_41 Start: 29646, Stop: 28255, Start Num: 147

Candidate Starts for BaronJohn_41:

(125, 29724), (Start: 138 @29682 has 140 MA's), (146, 29652), (Start: 147 @29646 has 27 MA's), (Start: 183 @29532 has 1 MA's), (184, 29529), (185, 29526), (251, 29292), (252, 29289), (303, 29034), (321, 28983), (323, 28977), (339, 28929), (344, 28896), (373, 28782), (376, 28773), (391, 28728), (393, 28722), (401, 28695), (404, 28686), (424, 28623), (443, 28551), (450, 28515), (453, 28506), (457, 28491), (459, 28485), (464, 28467), (472, 28425), (484, 28362), (504, 28290),

Gene: Bavilard_56 Start: 40156, Stop: 38678, Start Num: 109

Candidate Starts for Bavilard_56:

(Start: 109 @40156 has 35 MA's), (134, 40093), (142, 40072), (144, 40066), (Start: 149 @40039 has 1 MA's), (161, 39985), (172, 39949), (177, 39934), (211, 39838), (214, 39829), (219, 39808), (236, 39742), (252, 39706), (261, 39652), (263, 39646), (266, 39640), (281, 39562), (285, 39547), (304, 39448), (326, 39373), (335, 39349), (339, 39337), (343, 39316), (345, 39301), (347, 39292), (354, 39271), (369, 39232), (372, 39223), (394, 39157), (415, 39085), (427, 39043), (428, 39040), (433, 39025), (453, 38929), (465, 38878), (472, 38848), (478, 38815), (491, 38758), (496, 38743),

Gene: BeautPeep30_41 Start: 31120, Stop: 29732, Start Num: 138

Candidate Starts for BeautPeep30_41:

(52, 31342), (Start: 138 @31120 has 140 MA's), (181, 30976), (Start: 183 @30970 has 1 MA's), (184, 30967), (221, 30853), (229, 30826), (243, 30766), (251, 30739), (252, 30736), (272, 30640), (280, 30598), (319, 30436), (323, 30427), (328, 30406), (335, 30391), (339, 30379), (348, 30331), (373, 30271), (404, 30175), (424, 30112), (440, 30058), (459, 29974), (460, 29968), (464, 29956), (481, 29860), (497, 29806), (498, 29803), (504, 29779),

Gene: Beaver_62 Start: 53506, Stop: 51974, Start Num: 108

Candidate Starts for Beaver_62:

(26, 53761), (34, 53710), (47, 53659), (66, 53605), (76, 53575), (Start: 89 @53542 has 3 MA's), (97, 53533), (Start: 108 @53506 has 25 MA's), (160, 53338), (170, 53296), (Start: 183 @53248 has 1 MA's), (187, 53236), (190, 53224), (192, 53218), (197, 53197), (209, 53170), (253, 53029), (272, 52942), (275, 52927), (280, 52915), (287, 52885), (295, 52834), (302, 52807), (320, 52756), (330, 52714), (336, 52696), (338, 52693), (343, 52666), (353, 52624), (365, 52579), (371, 52561), (400, 52444), (403, 52429), (409, 52408), (440, 52351), (444, 52327), (457, 52267), (459, 52261), (460, 52255), (462, 52249), (473, 52198), (477, 52174), (483, 52135), (487, 52123), (515, 52027), (518, 52012), (525, 51991),

Gene: BeeBee8_41 Start: 31426, Stop: 30035, Start Num: 138

Candidate Starts for BeeBee8_41:

(83, 31528), (85, 31525), (87, 31522), (Start: 138 @31426 has 140 MA's), (181, 31279), (Start: 183 @31273 has 1 MA's), (184, 31270), (221, 31156), (229, 31129), (243, 31069), (251, 31042), (252, 31039), (272, 30943), (280, 30901), (323, 30730), (328, 30709), (339, 30682), (348, 30634), (373, 30574), (404, 30478), (440, 30361), (443, 30343), (459, 30277), (460, 30271), (481, 30163), (497, 30109), (498, 30106), (504, 30082), (513, 30052),

Gene: Benczkowski14_57 Start: 53319, Stop: 51616, Start Num: 36

Candidate Starts for Benczkowski14_57:

(Start: 36 @53319 has 6 MA's), (Start: 40 @53307 has 2 MA's), (Start: 114 @53124 has 2 MA's), (Start: 147 @53034 has 27 MA's), (150, 53025), (160, 52989), (165, 52965), (168, 52956), (170, 52947), (Start: 183 @52899 has 1 MA's), (190, 52875), (216, 52803), (217, 52800), (220, 52782), (232, 52743), (266, 52614), (275, 52575), (276, 52572), (282, 52554), (284, 52545), (287, 52533), (294, 52485), (303, 52452), (320, 52404), (325, 52380), (343, 52314), (365, 52215), (389, 52116), (392, 52107), (399, 52083), (400, 52080), (440, 51987), (444, 51963), (445, 51960), (457, 51903), (462, 51885), (483, 51768), (484, 51765), (488, 51753), (518, 51654), (525, 51633),

Gene: Benjalauren_41 Start: 30819, Stop: 29431, Start Num: 138

Candidate Starts for Benjalauren_41:

(2, 31470), (31, 31116), (52, 31041), (Start: 138 @30819 has 140 MA's), (181, 30675), (Start: 183 @30669 has 1 MA's), (184, 30666), (221, 30552), (229, 30525), (243, 30465), (251, 30438), (252, 30435), (272, 30339), (280, 30297), (323, 30126), (328, 30105), (335, 30090), (348, 30030), (373, 29970), (404, 29874), (424, 29811), (440, 29757), (459, 29673), (460, 29667), (464, 29655), (481, 29559), (497, 29505), (498, 29502), (504, 29478),

Gene: BenoitCattle_59 Start: 52020, Stop: 50611, Start Num: 147

Candidate Starts for BenoitCattle_59:

(26, 52398), (34, 52347), (47, 52296), (66, 52242), (76, 52212), (Start: 89 @52179 has 3 MA's), (97, 52170), (Start: 108 @52143 has 25 MA's), (Start: 147 @52020 has 27 MA's), (160, 51975), (170, 51933), (Start: 183 @51885 has 1 MA's), (184, 51882), (186, 51876), (187, 51873), (190, 51861), (192, 51855), (209, 51807), (210, 51804), (247, 51684), (253, 51666), (266, 51603), (272, 51579), (275, 51564), (287, 51522), (295, 51471), (320, 51393), (336, 51333), (338, 51330), (340, 51321), (343, 51303), (353, 51261), (365, 51216), (400, 51081), (403, 51066), (409, 51045), (444, 50964), (445, 50961), (457, 50904), (459, 50898), (462, 50886), (473, 50835), (477, 50811), (483, 50772), (487, 50760), (515, 50664), (518, 50649),

Gene: Berries_57 Start: 52859, Stop: 51447, Start Num: 147

Candidate Starts for Berries_57:

(26, 53207), (58, 53078), (Start: 89 @52988 has 3 MA's), (Start: 147 @52859 has 27 MA's), (160, 52814), (Start: 183 @52724 has 1 MA's), (184, 52721), (186, 52715), (192, 52694), (216, 52631), (247, 52523), (253, 52505), (272, 52418), (275, 52403), (287, 52361), (303, 52280), (320, 52232), (330, 52190), (336, 52172), (338, 52169), (343, 52142), (356, 52091), (365, 52055), (380, 52004), (400, 51920), (406, 51899), (457, 51743), (459, 51737), (462, 51725), (487, 51599), (518, 51485),

Gene: Bianmat_57 Start: 52899, Stop: 51487, Start Num: 147

Candidate Starts for Bianmat_57:

(26, 53247), (58, 53118), (Start: 89 @53028 has 3 MA's), (Start: 147 @52899 has 27 MA's), (160, 52854), (Start: 183 @52764 has 1 MA's), (184, 52761), (186, 52755), (192, 52734), (216, 52671), (237, 52593), (247, 52563), (253, 52545), (272, 52458), (275, 52443), (287, 52401), (303, 52320), (320, 52272), (330, 52230), (336, 52212), (338, 52209), (343, 52182), (356, 52131), (365, 52095), (380, 52044), (400, 51960), (406, 51939), (457, 51783), (459, 51777), (462, 51765), (487, 51639), (518, 51525),

Gene: BigChungus_56 Start: 40283, Stop: 38805, Start Num: 109

Candidate Starts for BigChungus_56:

(67, 40361), (93, 40310), (95, 40307), (Start: 109 @40283 has 35 MA's), (134, 40220), (142, 40199), (144, 40193), (Start: 149 @40166 has 1 MA's), (161, 40112), (172, 40076), (177, 40061), (211, 39965), (214, 39956), (219, 39935), (236, 39869), (252, 39833), (261, 39779), (263, 39773), (266, 39767), (281, 39689), (285, 39674), (304, 39575), (326, 39500), (335, 39476), (339, 39464), (343, 39443), (345, 39428), (347, 39419), (354, 39398), (369, 39359), (372, 39350), (376, 39335), (394, 39284), (415, 39212), (427, 39170), (433, 39152), (453, 39056), (465, 39005), (472, 38975), (478, 38942), (491, 38885), (496, 38870),

Gene: BigRedClifford_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for BigRedClifford_41:

(Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: BigShaq_59 Start: 52148, Stop: 50616, Start Num: 108

Candidate Starts for BigShaq_59:

(26, 52403), (34, 52352), (47, 52301), (66, 52247), (76, 52217), (Start: 89 @52184 has 3 MA's), (97, 52175), (Start: 108 @52148 has 25 MA's), (Start: 147 @52025 has 27 MA's), (160, 51980), (170, 51938), (Start: 183 @51890 has 1 MA's), (184, 51887), (186, 51881), (187, 51878), (190, 51866), (192, 51860), (201, 51824), (209, 51812), (210, 51809), (247, 51689), (253, 51671), (272, 51584), (275, 51569), (287, 51527), (295, 51476), (302, 51449), (320, 51398), (336, 51338), (338, 51335), (340, 51326), (343, 51308), (353, 51266), (365, 51221), (400, 51086), (403, 51071), (409, 51050), (444, 50969), (445, 50966), (457, 50909), (459, 50903), (462, 50891), (473, 50840), (476, 50825), (477, 50816), (483, 50777), (487, 50765), (515, 50669), (518, 50654),

Gene: BillDoor_53 Start: 37991, Stop: 36513, Start Num: 109

Candidate Starts for BillDoor_53:

(Start: 109 @37991 has 35 MA's), (144, 37898), (Start: 149 @37871 has 1 MA's), (168, 37796), (Start: 183 @37754 has 1 MA's), (211, 37673), (252, 37541), (261, 37487), (266, 37475), (281, 37397), (304, 37283), (309, 37265), (313, 37256), (323, 37232), (332, 37193), (347, 37127), (354, 37106), (369, 37067), (374, 37049), (376, 37043), (413, 36932), (427, 36884), (433, 36866), (453, 36770), (459, 36749), (465, 36719),

Gene: BirksAndSocks_64 Start: 53856, Stop: 52324, Start Num: 108

Candidate Starts for BirksAndSocks_64:

(26, 54111), (34, 54060), (66, 53955), (76, 53925), (Start: 89 @53892 has 3 MA's), (97, 53883), (Start: 108 @53856 has 25 MA's), (160, 53688), (170, 53646), (176, 53628), (Start: 183 @53598 has 1 MA's), (187, 53586), (190, 53574), (192, 53568), (197, 53547), (253, 53379), (272, 53292), (275, 53277), (280, 53265), (287, 53235), (320, 53106), (325, 53082), (330, 53064), (336, 53046), (338, 53043), (340, 53034), (343, 53016), (365, 52929), (400, 52794), (403, 52779), (409, 52758), (444, 52677), (445, 52674), (457, 52617), (459, 52611), (462, 52599), (473, 52548), (477, 52524), (483, 52485), (487, 52473), (488, 52470), (515, 52377), (518, 52362),

Gene: Biskit_55 Start: 38648, Stop: 37170, Start Num: 109

Candidate Starts for Biskit_55:

(Start: 109 @38648 has 35 MA's), (142, 38561), (144, 38555), (155, 38504), (168, 38453), (172, 38438), (201, 38354), (211, 38330), (214, 38321), (252, 38198), (261, 38144), (263, 38138), (266, 38132), (281, 38054), (304, 37940), (313, 37913), (323, 37889), (343, 37808), (347, 37784), (354, 37763), (369, 37724), (374, 37706), (376, 37700), (413, 37589), (415, 37583), (427, 37541), (433, 37523), (450, 37436), (453, 37427), (459, 37406), (465, 37376), (472, 37346), (478, 37313), (501, 37223),

Gene: Blage_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for Blage_41:

(Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: Blondies_55 Start: 38965, Stop: 37487, Start Num: 109

Candidate Starts for Blondies_55:

(Start: 109 @38965 has 35 MA's), (142, 38878), (144, 38872), (155, 38821), (168, 38770), (172, 38755), (201, 38671), (211, 38647), (214, 38638), (252, 38515), (261, 38461), (263, 38455), (266, 38449), (270, 38425), (281, 38371), (304, 38257), (313, 38230), (323, 38206), (343, 38125), (347, 38101), (354, 38080), (369, 38041), (374, 38023), (376, 38017), (413, 37906), (415, 37900), (427, 37858), (433, 37840), (450, 37753), (453, 37744), (459, 37723), (465, 37693), (472, 37663), (478, 37630), (501, 37540),

Gene: Boneham_63 Start: 53757, Stop: 52225, Start Num: 108

Candidate Starts for Boneham_63:

(26, 54012), (34, 53961), (66, 53856), (76, 53826), (Start: 89 @53793 has 3 MA's), (97, 53784), (Start: 108 @53757 has 25 MA's), (160, 53589), (170, 53547), (176, 53529), (Start: 183 @53499 has 1 MA's), (187, 53487), (190, 53475), (192, 53469), (197, 53448), (253, 53280), (272, 53193), (275, 53178), (280, 53166), (287, 53136), (320, 53007), (325, 52983), (330, 52965), (336, 52947), (338, 52944), (340, 52935), (343, 52917), (365, 52830), (400, 52695), (403, 52680), (409, 52659), (444, 52578), (445, 52575), (457, 52518), (459, 52512), (462, 52500), (473, 52449), (477, 52425), (483, 52386), (487, 52374), (488, 52371), (515, 52278), (518, 52263),

Gene: BonesMcCoy_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for BonesMcCoy_41:

(2, 31769), (31, 31415), (52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: Bonino_40 Start: 30795, Stop: 29407, Start Num: 138

Candidate Starts for Bonino_40:

(52, 31017), (Start: 138 @30795 has 140 MA's), (181, 30651), (Start: 183 @30645 has 1 MA's), (184, 30642), (221, 30528), (229, 30501), (243, 30441), (251, 30414), (252, 30411), (272, 30315), (280, 30273), (323, 30102), (328, 30081), (335, 30066), (339, 30054), (348, 30006), (373, 29946), (404, 29850), (424, 29787), (440, 29733), (459, 29649), (460, 29643), (464, 29631), (478, 29556), (481, 29535), (497, 29481), (498, 29478), (504, 29454),

Gene: BouleyBill_39 Start: 30564, Stop: 29158, Start Num: 135

Candidate Starts for BouleyBill_39:

(75, 30711), (95, 30666), (Start: 108 @30636 has 25 MA's), (131, 30582), (Start: 135 @30564 has 2 MA's), (Start: 140 @30552 has 10 MA's), (Start: 141 @30546 has 21 MA's), (Start: 147 @30516 has 27 MA's), (181, 30408), (Start: 183 @30402 has 1 MA's), (184, 30399), (189, 30384), (243, 30198), (246, 30189), (252, 30168), (258, 30126), (272, 30072), (323, 29859), (328, 29838), (335, 29823), (339, 29811), (342, 29796), (349, 29760), (352, 29751), (362, 29736), (373, 29700), (404, 29601), (424, 29538), (433, 29511), (449, 29436), (450, 29430), (453, 29421), (457, 29406), (459, 29400), (460, 29394), (464, 29382), (490, 29259), (492, 29247), (515, 29172),

Gene: Bramble_43 Start: 26601, Stop: 28535, Start Num: 23

Candidate Starts for Bramble_43:

(3, 26361), (Start: 8 @26505 has 1 MA's), (21, 26595), (Start: 23 @26601 has 3 MA's), (45, 26748), (50, 26766), (54, 26775), (Start: 113 @26925 has 1 MA's), (152, 27051), (177, 27141), (181, 27150), (210, 27240), (221, 27282), (226, 27312), (256, 27444), (292, 27630), (296, 27648), (300, 27663), (317, 27720), (335, 27780), (352, 27852), (388, 27990), (407, 28056), (414, 28086), (415, 28089), (439, 28164), (451, 28242), (465, 28302), (483, 28392), (490, 28410),

Gene: Breezic_59 Start: 51749, Stop: 50217, Start Num: 108

Candidate Starts for Breezic_59:

(26, 52004), (34, 51953), (47, 51902), (66, 51848), (76, 51818), (Start: 89 @51785 has 3 MA's), (97, 51776), (Start: 108 @51749 has 25 MA's), (160, 51581), (170, 51539), (Start: 183 @51491 has 1 MA's), (187, 51479), (190, 51467), (192, 51461), (197, 51440), (209, 51413), (253, 51272), (272, 51185), (275, 51170), (280, 51158), (287, 51128), (295, 51077), (302, 51050), (320, 50999), (336, 50939), (338, 50936), (343, 50909), (353, 50867), (365, 50822), (400, 50687), (403, 50672), (409, 50651), (440, 50594), (444, 50570), (445, 50567), (457, 50510), (459, 50504), (460, 50498), (462, 50492), (473, 50441), (477, 50417), (483, 50378), (487, 50366), (488, 50363), (515, 50270), (518, 50255), (525, 50234),

Gene: Burnsey_53 Start: 38833, Stop: 37355, Start Num: 109

Candidate Starts for Burnsey_53:

(Start: 109 @38833 has 35 MA's), (142, 38746), (144, 38740), (161, 38659), (168, 38638), (211, 38515), (212, 38512), (261, 38329), (263, 38323), (266, 38317), (281, 38239), (304, 38125), (313, 38098), (323, 38074), (339, 38014), (347, 37969), (354, 37948), (369, 37909), (374, 37891), (413, 37774), (427, 37726), (428, 37723), (433, 37708), (453, 37612), (459, 37591), (465, 37561),

Gene: Bustleton_39 Start: 30567, Stop: 29185, Start Num: 140

Candidate Starts for Bustleton_39:

(131, 30594), (Start: 140 @30567 has 10 MA's), (Start: 141 @30564 has 21 MA's), (Start: 147 @30534 has 27 MA's), (181, 30426), (Start: 183 @30420 has 1 MA's), (184, 30417), (189, 30402), (243, 30216), (246, 30207), (252, 30186), (258, 30144), (272, 30090), (323, 29877), (328, 29856), (335, 29841), (339, 29829), (342, 29814), (349, 29778), (352, 29769), (362, 29754), (373, 29718), (404, 29619), (424, 29556), (433, 29529), (449, 29454), (450, 29448), (453, 29439), (457, 29424), (459, 29418), (460, 29412), (464, 29400), (490, 29277), (492, 29265),

Gene: Butterball_62 Start: 53762, Stop: 52230, Start Num: 108

Candidate Starts for Butterball_62:

(26, 54017), (34, 53966), (66, 53861), (76, 53831), (Start: 89 @53798 has 3 MA's), (97, 53789), (Start: 108 @53762 has 25 MA's), (160, 53594), (170, 53552), (176, 53534), (Start: 183 @53504 has 1 MA's), (187, 53492), (190, 53480), (192, 53474), (197, 53453), (253, 53285), (272, 53198), (275, 53183), (280, 53171), (287, 53141), (320, 53012), (325, 52988), (330, 52970), (336, 52952), (338, 52949), (340, 52940), (343, 52922), (365, 52835), (400, 52700), (403, 52685), (409, 52664), (444, 52583), (445, 52580), (457, 52523), (459, 52517), (462, 52505), (473, 52454), (477, 52430), (483, 52391), (487, 52379), (488, 52376), (515, 52283), (518, 52268),

Gene: Button_57 Start: 39117, Stop: 37642, Start Num: 112

Candidate Starts for Button_57:

(Start: 112 @39117 has 12 MA's), (128, 39075), (144, 39027), (Start: 149 @39000 has 1 MA's), (161, 38946), (168, 38925), (170, 38916), (201, 38826), (204, 38817), (212, 38799), (214, 38793), (252, 38670), (261, 38616), (263, 38610), (266, 38604), (275, 38559), (281, 38526), (335, 38313), (343, 38280), (352, 38241), (369, 38196), (374, 38178), (376, 38172), (392, 38127), (394, 38121), (400, 38100), (414, 38052), (415, 38049), (427, 38007), (428, 38004), (433, 37989), (440, 37962), (453, 37893), (465, 37842), (469, 37827), (490, 37731), (492, 37719), (495, 37710), (510, 37656),

Gene: Buttrmlkdreams_55 Start: 39095, Stop: 37617, Start Num: 109

Candidate Starts for Buttrmlkdreams_55:

(Start: 109 @39095 has 35 MA's), (142, 39008), (144, 39002), (155, 38951), (168, 38900), (172, 38885), (201, 38801), (211, 38777), (214, 38768), (252, 38645), (261, 38591), (263, 38585), (266, 38579), (272, 38549), (281, 38501), (304, 38387), (313, 38360), (323, 38336), (343, 38255), (347, 38231), (354, 38210), (369, 38171), (374, 38153), (376, 38147), (413, 38036), (415, 38030), (427, 37988), (433, 37970), (450, 37883), (453, 37874), (459, 37853), (465, 37823), (472, 37793), (478, 37760), (501, 37670),

Gene: Byron23_42 Start: 31117, Stop: 29729, Start Num: 138

Candidate Starts for Byron23_42:

(2, 31768), (31, 31414), (52, 31339), (Start: 138 @31117 has 140 MA's), (181, 30973), (Start: 183 @30967 has 1 MA's), (184, 30964), (221, 30850), (229, 30823), (243, 30763), (251, 30736), (252, 30733), (272, 30637), (280, 30595), (302, 30484), (323, 30424), (335, 30388), (339, 30376), (344, 30343), (348, 30328), (373, 30268), (404, 30172), (424, 30109), (440, 30055), (459, 29971), (460, 29965), (464, 29953), (481, 29857), (497, 29803), (498, 29800), (504, 29776),

Gene: Calix_40 Start: 30802, Stop: 29414, Start Num: 138

Candidate Starts for Calix_40:

(52, 31024), (Start: 138 @30802 has 140 MA's), (181, 30658), (Start: 183 @30652 has 1 MA's), (184, 30649), (221, 30535), (229, 30508), (243, 30448), (251, 30421), (252, 30418), (272, 30322), (280, 30280), (323, 30109), (328, 30088), (335, 30073), (339, 30061), (348, 30013), (373, 29953), (404, 29857), (424, 29794), (440, 29740), (459, 29656), (460, 29650), (464, 29638), (478, 29563), (481, 29542), (497, 29488), (498, 29485), (504, 29461),

Gene: Camerico_63 Start: 54751, Stop: 53234, Start Num: 126

Candidate Starts for Camerico_63:

(Start: 126 @54751 has 3 MA's), (Start: 147 @54673 has 27 MA's), (153, 54655), (156, 54643), (160, 54628), (177, 54574), (Start: 183 @54556 has 1 MA's), (185, 54550), (199, 54496), (207, 54478), (228, 54418), (233, 54394), (255, 54313), (264, 54274), (271, 54247), (276, 54226), (284, 54199), (286, 54190), (320, 54058), (325, 54034), (330, 54016), (336, 53998), (339, 53989), (393, 53773), (395, 53767), (399, 53752), (411, 53701), (426, 53647), (462, 53506), (476, 53440), (477, 53431), (481, 53398),

Gene: CanesSauce_52 Start: 38485, Stop: 37007, Start Num: 109

Candidate Starts for CanesSauce_52:

(Start: 109 @38485 has 35 MA's), (144, 38392), (Start: 149 @38365 has 1 MA's), (168, 38290), (Start: 183 @38248 has 1 MA's), (211, 38167), (252, 38035), (261, 37981), (266, 37969), (281, 37891), (304, 37777), (313, 37750), (323, 37726), (332, 37687), (347, 37621), (354, 37600), (374, 37543), (413, 37426), (427, 37378), (433, 37360), (453, 37264), (459, 37243), (465, 37213),

Gene: CaptainRex_40 Start: 29071, Stop: 27644, Start Num: 138

Candidate Starts for CaptainRex_40:

(Start: 138 @29071 has 140 MA's), (146, 29041), (Start: 147 @29035 has 27 MA's), (Start: 183 @28921 has 1 MA's), (184, 28918), (251, 28681), (252, 28678), (303, 28423), (321, 28372), (323, 28366), (339, 28318), (344, 28285), (348, 28270), (365, 28198), (373, 28171), (376, 28162), (391, 28117), (393, 28111), (401, 28084), (424, 28012), (443, 27940), (450, 27904), (453, 27895), (457, 27880), (459, 27874), (464, 27856), (472, 27814), (484, 27751), (502, 27688), (504, 27679),

Gene: CarisSwetlik_44 Start: 32154, Stop: 30658, Start Num: 96

Candidate Starts for CarisSwetlik_44:

(41, 32295), (57, 32244), (63, 32223), (84, 32172), (96, 32154), (Start: 140 @32061 has 10 MA's), (181, 31917), (Start: 183 @31911 has 1 MA's), (201, 31848), (221, 31794), (229, 31767), (243, 31707), (251, 31680), (252, 31677), (272, 31581), (280, 31539), (319, 31377), (323, 31368), (328, 31347), (339, 31320), (349, 31269), (373, 31212), (391, 31158), (404, 31116), (417, 31071), (452, 30939), (459, 30915), (460, 30909), (464, 30897), (481, 30801), (490, 30774), (497, 30747), (514, 30690),

Gene: Carostasia_39 Start: 30625, Stop: 29213, Start Num: 141

Candidate Starts for Carostasia_39:

(Start: 140 @30628 has 10 MA's), (Start: 141 @30625 has 21 MA's), (Start: 147 @30595 has 27 MA's), (Start: 149 @30589 has 1 MA's), (159, 30556), (Start: 183 @30481 has 1 MA's), (185, 30475), (221, 30364), (229, 30337), (241, 30286), (243, 30277), (251, 30250), (252, 30247), (258, 30205), (272, 30151), (303, 29995), (321, 29944), (323, 29938), (328, 29917), (332, 29911), (335, 29902), (339, 29890), (341, 29878), (359, 29800), (373, 29740), (375, 29734), (391, 29686), (402, 29644), (424, 29581), (429, 29569), (437, 29545), (438, 29542), (450, 29473), (453, 29464), (457, 29449), (459, 29443), (460, 29437), (464, 29425), (484, 29320), (490, 29302), (492, 29290), (505, 29245),

Gene: Carsonalex_56 Start: 38706, Stop: 37321, Start Num: 144

Candidate Starts for Carsonalex_56:

(Start: 106 @38805 has 1 MA's), (Start: 112 @38796 has 12 MA's), (142, 38712), (144, 38706), (161, 38625), (168, 38604), (212, 38478), (261, 38295), (263, 38289), (266, 38283), (281, 38205), (304, 38091), (313, 38064), (323, 38040), (339, 37980), (347, 37935), (354, 37914), (369, 37875), (374, 37857), (376, 37851), (413, 37740), (427, 37692), (428, 37689), (433, 37674), (453, 37578), (459, 37557), (465, 37527),

Gene: Casey_37 Start: 29766, Stop: 28396, Start Num: 141

Candidate Starts for Casey_37:

(Start: 141 @29766 has 21 MA's), (176, 29637), (185, 29616), (221, 29505), (222, 29502), (242, 29418), (243, 29412), (248, 29400), (252, 29382), (255, 29361), (272, 29286), (279, 29253), (319, 29082), (321, 29079), (323, 29073), (324, 29070), (335, 29037), (348, 28977), (373, 28917), (375, 28911), (376, 28908), (377, 28905), (402, 28821), (442, 28689), (450, 28650), (457, 28626), (459, 28620), (464, 28602), (481, 28506), (490, 28479), (492, 28467), (502, 28434), (505, 28422),

Gene: CathyBurgh_58 Start: 52326, Stop: 50794, Start Num: 108

Candidate Starts for CathyBurgh_58:

(26, 52581), (34, 52530), (47, 52479), (66, 52425), (76, 52395), (Start: 89 @52362 has 3 MA's), (97, 52353), (Start: 108 @52326 has 25 MA's), (160, 52158), (170, 52116), (Start: 183 @52068 has 1 MA's), (187, 52056), (190, 52044), (192, 52038), (197, 52017), (209, 51990), (253, 51849), (272, 51762), (275, 51747), (280, 51735), (287, 51705), (295, 51654), (302, 51627), (320, 51576), (325, 51552), (330, 51534), (336, 51516), (338, 51513), (343, 51486), (353, 51444), (365, 51399), (400, 51264), (403, 51249), (409, 51228), (440, 51171), (444, 51147), (457, 51087), (459, 51081), (460, 51075), (462, 51069), (473, 51018), (477, 50994), (483, 50955), (487, 50943), (488, 50940), (515, 50847), (518, 50832), (525, 50811),

Gene: Chako_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Chako_40:

(2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Chamuel_40 Start: 30828, Stop: 29407, Start Num: 138

Candidate Starts for Chamuel_40:

(52, 31050), (Start: 138 @30828 has 140 MA's), (181, 30684), (Start: 183 @30678 has 1 MA's), (184, 30675), (221, 30561), (229, 30534), (243, 30474), (251, 30447), (252, 30444), (272, 30348), (280, 30306), (319, 30144), (323, 30135), (328, 30114), (339, 30087), (344, 30054), (348, 30039), (368, 29964), (373, 29946), (404, 29850), (424, 29787), (440, 29733), (459, 29649), (460, 29643), (464, 29631), (478, 29556), (481, 29535), (497, 29481), (498, 29478), (504, 29454),

Gene: Charianelly_57 Start: 52738, Stop: 51197, Start Num: 89

Candidate Starts for Charianelly_57:

(26, 52957), (58, 52828), (Start: 89 @52738 has 3 MA's), (Start: 147 @52609 has 27 MA's), (160, 52564), (Start: 183 @52474 has 1 MA's), (184, 52471), (186, 52465), (192, 52444), (216, 52381), (237, 52303), (247, 52273), (253, 52255), (272, 52168), (275, 52153), (287, 52111), (303, 52030), (320, 51982), (330, 51940), (336, 51922), (338, 51919), (343, 51892), (356, 51841), (365, 51805), (380, 51754), (400, 51670), (406, 51649), (457, 51493), (459, 51487), (462, 51475), (487, 51349), (518, 51235),

Gene: Cheeto1_42 Start: 31179, Stop: 29788, Start Num: 138

Candidate Starts for Cheeto1_42:

(Start: 138 @31179 has 140 MA's), (181, 31035), (Start: 183 @31029 has 1 MA's), (201, 30966), (229, 30885), (243, 30825), (251, 30798), (252, 30795), (272, 30699), (280, 30657), (302, 30546), (323, 30486), (328, 30465), (339, 30438), (349, 30387), (365, 30357), (373, 30330), (377, 30318), (404, 30231), (424, 30168), (429, 30156), (443, 30096), (450, 30060), (452, 30054), (457, 30036), (459, 30030), (460, 30024), (472, 29970), (481, 29916), (490, 29889), (492, 29877),

Gene: Chelms_59 Start: 52169, Stop: 50760, Start Num: 147

Candidate Starts for Chelms_59:

(26, 52547), (34, 52496), (47, 52445), (66, 52391), (76, 52361), (Start: 89 @52328 has 3 MA's), (97, 52319), (Start: 108 @52292 has 25 MA's), (Start: 147 @52169 has 27 MA's), (160, 52124), (170, 52082), (Start: 183 @52034 has 1 MA's), (184, 52031), (186, 52025), (187, 52022), (190, 52010), (192, 52004), (209, 51956), (210, 51953), (247, 51833), (253, 51815), (266, 51752), (272, 51728), (275, 51713), (287, 51671), (295, 51620), (302, 51593), (320, 51542), (336, 51482), (338, 51479), (340, 51470), (343, 51452), (353, 51410), (365, 51365), (366, 51362), (400, 51230), (403, 51215), (409, 51194), (444, 51113), (445, 51110), (457, 51053), (459, 51047), (462, 51035), (473, 50984), (476, 50969), (477, 50960), (483, 50921), (487, 50909), (515, 50813), (518, 50798),

Gene: Chepli_42 Start: 30524, Stop: 29118, Start Num: 138

Candidate Starts for Chepli_42:

(Start: 138 @30524 has 140 MA's), (146, 30494), (182, 30377), (Start: 183 @30374 has 1 MA's), (184, 30371), (193, 30344), (201, 30311), (210, 30290), (221, 30248), (229, 30221), (251, 30134), (252, 30131), (258, 30089), (270, 30038), (303, 29876), (323, 29819), (341, 29759), (343, 29750), (344, 29738), (362, 29699), (363, 29696), (371, 29672), (372, 29669), (373, 29663), (401, 29576), (404, 29567), (405, 29564), (450, 29396), (453, 29387), (457, 29372), (459, 29366), (460, 29360), (464, 29348), (490, 29225), (496, 29201), (504, 29171),

Gene: CherryonLim_57 Start: 41741, Stop: 40263, Start Num: 109

Candidate Starts for CherryonLim_57:

(69, 41822), (95, 41768), (Start: 109 @41741 has 35 MA's), (134, 41678), (144, 41651), (Start: 149 @41624 has 1 MA's), (161, 41570), (168, 41549), (172, 41534), (177, 41519), (214, 41414), (252, 41291), (261, 41237), (263, 41231), (266, 41225), (281, 41147), (304, 41033), (332, 40943), (335, 40934), (339, 40922), (343, 40901), (345, 40886), (347, 40877), (354, 40856), (369, 40817), (372, 40808), (376, 40793), (400, 40721), (414, 40673), (415, 40670), (427, 40628), (433, 40610), (453, 40514), (465, 40463), (472, 40433), (478, 40400), (491, 40343), (496, 40328),

Gene: ChickenKing_40 Start: 31093, Stop: 29702, Start Num: 138

Candidate Starts for ChickenKing_40:

(Start: 138 @31093 has 140 MA's), (181, 30949), (Start: 183 @30943 has 1 MA's), (201, 30880), (229, 30799), (243, 30739), (251, 30712), (252, 30709), (254, 30703), (272, 30613), (280, 30571), (323, 30400), (328, 30379), (335, 30364), (339, 30352), (349, 30301), (373, 30244), (377, 30232), (424, 30082), (429, 30070), (443, 30010), (450, 29974), (452, 29968), (457, 29950), (459, 29944), (460, 29938), (472, 29884), (478, 29851), (481, 29830), (492, 29791),

Gene: ChickenTender_56 Start: 38517, Stop: 37042, Start Num: 109

Candidate Starts for ChickenTender_56:

(Start: 109 @38517 has 35 MA's), (144, 38427), (161, 38346), (168, 38325), (211, 38202), (212, 38199), (261, 38016), (263, 38010), (266, 38004), (281, 37926), (304, 37812), (313, 37785), (323, 37761), (339, 37701), (347, 37656), (354, 37635), (374, 37578), (413, 37461), (427, 37413), (428, 37410), (453, 37299), (459, 37278), (462, 37266), (465, 37248),

Gene: ChikPic_40 Start: 30953, Stop: 29541, Start Num: 141

Candidate Starts for ChikPic_40:

(Start: 140 @30956 has 10 MA's), (Start: 141 @30953 has 21 MA's), (Start: 147 @30923 has 27 MA's), (Start: 149 @30917 has 1 MA's), (159, 30884), (221, 30692), (229, 30665), (243, 30605), (251, 30578), (252, 30575), (258, 30533), (272, 30479), (280, 30437), (303, 30323), (323, 30266), (328, 30245), (335, 30230), (339, 30218), (341, 30206), (342, 30203), (344, 30185), (362, 30104), (373, 30068), (391, 30014), (402, 29972), (414, 29942), (420, 29918), (423, 29912), (438, 29870), (450, 29801), (457, 29777), (459, 29771), (460, 29765), (464, 29753), (481, 29657), (484, 29648), (490, 29630), (492, 29618), (505, 29573),

Gene: Chivey_40 Start: 25169, Stop: 27076, Start Num: 22

Candidate Starts for Chivey_40:

(4, 24995), (Start: 22 @25169 has 31 MA's), (27, 25232), (30, 25253), (45, 25307), (93, 25442), (Start: 113 @25484 has 1 MA's), (130, 25529), (177, 25703), (181, 25712), (210, 25802), (221, 25844), (224, 25859), (266, 26045), (290, 26180), (292, 26192), (300, 26225), (339, 26354), (371, 26471), (444, 26744), (451, 26783), (465, 26843), (483, 26933), (492, 26963), (504, 27005), (520, 27056),

Gene: ChocoMunchkin_52 Start: 38485, Stop: 37007, Start Num: 109

Candidate Starts for ChocoMunchkin_52:

(Start: 109 @38485 has 35 MA's), (144, 38392), (Start: 149 @38365 has 1 MA's), (168, 38290), (Start: 183 @38248 has 1 MA's), (211, 38167), (252, 38035), (261, 37981), (266, 37969), (281, 37891), (304, 37777), (313, 37750), (323, 37726), (332, 37687), (347, 37621), (354, 37600), (374, 37543), (413, 37426), (427, 37378), (433, 37360), (453, 37264), (459, 37243), (465, 37213),

Gene: Christoph_40 Start: 30815, Stop: 29427, Start Num: 138

Candidate Starts for Christoph_40:

(52, 31037), (Start: 138 @30815 has 140 MA's), (181, 30671), (Start: 183 @30665 has 1 MA's), (184, 30662), (221, 30548), (229, 30521), (243, 30461), (251, 30434), (252, 30431), (272, 30335), (280, 30293), (323, 30122), (328, 30101), (335, 30086), (348, 30026), (373, 29966), (404, 29870), (424, 29807), (440, 29753), (459, 29669), (460, 29663), (464, 29651), (481, 29555), (497, 29501), (498, 29498), (504, 29474),

Gene: CinnamonToast_65 Start: 53852, Stop: 52284, Start Num: 89

Candidate Starts for CinnamonToast_65:

(26, 54071), (34, 54020), (58, 53942), (66, 53915), (76, 53885), (Start: 89 @53852 has 3 MA's), (97, 53843), (Start: 108 @53816 has 25 MA's), (160, 53648), (170, 53606), (176, 53588), (Start: 183 @53558 has 1 MA's), (187, 53546), (192, 53528), (209, 53480), (253, 53339), (272, 53252), (275, 53237), (280, 53225), (287, 53195), (295, 53144), (320, 53066), (325, 53042), (330, 53024), (336, 53006), (338, 53003), (340, 52994), (343, 52976), (365, 52889), (400, 52754), (403, 52739), (409,

52718), (440, 52661), (444, 52637), (445, 52634), (457, 52577), (459, 52571), (462, 52559), (473, 52508), (477, 52484), (483, 52445), (487, 52433), (488, 52430), (515, 52337), (518, 52322), (525, 52301),

Gene: Clancy_40 Start: 30848, Stop: 29460, Start Num: 138

Candidate Starts for Clancy_40:

(2, 31499), (31, 31145), (52, 31070), (Start: 138 @30848 has 140 MA's), (181, 30704), (Start: 183 @30698 has 1 MA's), (184, 30695), (221, 30581), (229, 30554), (243, 30494), (251, 30467), (252, 30464), (272, 30368), (280, 30326), (323, 30155), (328, 30134), (335, 30119), (348, 30059), (373, 29999), (404, 29903), (424, 29840), (440, 29786), (459, 29702), (460, 29696), (464, 29684), (481, 29588), (497, 29534), (498, 29531), (504, 29507),

Gene: Cleo_47 Start: 37658, Stop: 36168, Start Num: 111

Candidate Starts for Cleo_47:

(Start: 111 @37658 has 6 MA's), (128, 37616), (142, 37574), (144, 37568), (Start: 149 @37541 has 1 MA's), (161, 37487), (163, 37481), (172, 37451), (Start: 183 @37424 has 1 MA's), (211, 37343), (212, 37340), (214, 37334), (219, 37313), (236, 37247), (252, 37211), (256, 37187), (261, 37157), (263, 37151), (266, 37145), (281, 37067), (309, 36935), (313, 36926), (337, 36848), (344, 36809), (347, 36797), (348, 36794), (362, 36758), (368, 36740), (369, 36737), (370, 36734), (374, 36719), (382, 36692), (385, 36680), (394, 36647), (414, 36578), (427, 36533), (428, 36530), (440, 36488), (441, 36473), (451, 36425), (453, 36419), (465, 36368), (485, 36272), (491, 36248), (501, 36215), (510, 36182), (511, 36179),

Gene: Clock_40 Start: 31950, Stop: 30520, Start Num: 136

Candidate Starts for Clock_40:

(Start: 136 @31950 has 4 MA's), (146, 31917), (159, 31872), (Start: 183 @31797 has 1 MA's), (184, 31794), (225, 31662), (228, 31650), (251, 31557), (252, 31554), (321, 31248), (323, 31242), (328, 31221), (339, 31194), (341, 31182), (342, 31179), (344, 31161), (359, 31104), (373, 31047), (377, 31035), (391, 30993), (401, 30960), (404, 30951), (412, 30927), (424, 30888), (440, 30834), (450, 30780), (453, 30771), (457, 30756), (459, 30750), (484, 30627), (490, 30609), (496, 30585),

Gene: ColaCorta_40 Start: 31099, Stop: 29687, Start Num: 141

Candidate Starts for ColaCorta_40:

(Start: 141 @31099 has 21 MA's), (Start: 147 @31069 has 27 MA's), (Start: 149 @31063 has 1 MA's), (159, 31030), (221, 30838), (229, 30811), (243, 30751), (251, 30724), (252, 30721), (258, 30679), (272, 30625), (280, 30583), (303, 30469), (323, 30412), (328, 30391), (335, 30376), (339, 30364), (341, 30352), (342, 30349), (344, 30331), (362, 30250), (373, 30214), (391, 30160), (402, 30118), (414, 30088), (420, 30064), (423, 30058), (438, 30016), (450, 29947), (457, 29923), (459, 29917), (460, 29911), (464, 29899), (481, 29803), (484, 29794), (490, 29776), (492, 29764), (505, 29719),

Gene: Convict_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for Convict_41:

(2, 31769), (31, 31415), (52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: CoolCookie_40 Start: 25941, Stop: 27848, Start Num: 22

Candidate Starts for CoolCookie_40:

(Start: 22 @25941 has 31 MA's), (27, 26004), (30, 26025), (45, 26079), (Start: 113 @26256 has 1 MA's), (130, 26301), (177, 26475), (181, 26484), (210, 26574), (224, 26631), (266, 26817), (290, 26952), (292, 26964), (300, 26997), (339, 27126), (371, 27243), (393, 27318), (450, 27552), (451,

27555), (465, 27615), (483, 27705), (492, 27735), (504, 27777), (520, 27828),

Gene: Cozz_51 Start: 38430, Stop: 36952, Start Num: 109

Candidate Starts for Cozz_51:

(Start: 109 @38430 has 35 MA's), (142, 38343), (144, 38337), (161, 38256), (168, 38235), (212, 38109), (261, 37926), (263, 37920), (266, 37914), (281, 37836), (304, 37722), (313, 37695), (323, 37671), (339, 37611), (347, 37566), (354, 37545), (369, 37506), (374, 37488), (413, 37371), (427, 37323), (428, 37320), (433, 37305), (453, 37209), (459, 37188), (465, 37158), (511, 36969),

Gene: Crestdrop_40 Start: 25203, Stop: 27110, Start Num: 22

Candidate Starts for Crestdrop_40:

(4, 25029), (Start: 22 @25203 has 31 MA's), (27, 25266), (30, 25287), (45, 25341), (93, 25476), (Start: 113 @25518 has 1 MA's), (130, 25563), (177, 25737), (181, 25746), (210, 25836), (221, 25878), (224, 25893), (266, 26079), (290, 26214), (292, 26226), (300, 26259), (339, 26388), (371, 26505), (444, 26778), (451, 26817), (465, 26877), (483, 26967), (492, 26997), (504, 27039), (520, 27090),

Gene: Crete_60 Start: 52291, Stop: 50882, Start Num: 147

Candidate Starts for Crete_60:

(26, 52669), (34, 52618), (47, 52567), (66, 52513), (76, 52483), (Start: 89 @52450 has 3 MA's), (97, 52441), (Start: 108 @52414 has 25 MA's), (Start: 147 @52291 has 27 MA's), (160, 52246), (170, 52204), (Start: 183 @52156 has 1 MA's), (184, 52153), (186, 52147), (187, 52144), (190, 52132), (192, 52126), (209, 52078), (210, 52075), (247, 51955), (253, 51937), (266, 51874), (272, 51850), (275, 51835), (287, 51793), (295, 51742), (302, 51715), (320, 51664), (336, 51604), (338, 51601), (340, 51592), (343, 51574), (353, 51532), (365, 51487), (371, 51469), (400, 51352), (403, 51337), (409, 51316), (444, 51235), (445, 51232), (457, 51175), (459, 51169), (462, 51157), (473, 51106), (476, 51091), (477, 51082), (483, 51043), (487, 51031), (515, 50935), (518, 50920),

Gene: Cybele_40 Start: 25911, Stop: 27818, Start Num: 22

Candidate Starts for Cybele_40:

(Start: 22 @25911 has 31 MA's), (27, 25974), (30, 25995), (45, 26049), (Start: 113 @26226 has 1 MA's), (130, 26271), (177, 26445), (181, 26454), (210, 26544), (266, 26787), (290, 26922), (292, 26934), (300, 26967), (339, 27096), (371, 27213), (393, 27288), (450, 27522), (451, 27525), (465, 27585), (483, 27675), (492, 27705), (504, 27747), (520, 27798),

Gene: Dakiti_60 Start: 53037, Stop: 51628, Start Num: 147

Candidate Starts for Dakiti_60:

(26, 53415), (34, 53364), (47, 53313), (66, 53259), (76, 53229), (Start: 89 @53196 has 3 MA's), (97, 53187), (Start: 108 @53160 has 25 MA's), (Start: 147 @53037 has 27 MA's), (160, 52992), (170, 52950), (Start: 183 @52902 has 1 MA's), (184, 52899), (186, 52893), (187, 52890), (190, 52878), (192, 52872), (209, 52824), (210, 52821), (247, 52701), (253, 52683), (266, 52620), (272, 52596), (275, 52581), (287, 52539), (295, 52488), (302, 52461), (320, 52410), (336, 52350), (338, 52347), (340, 52338), (343, 52320), (353, 52278), (365, 52233), (366, 52230), (400, 52098), (403, 52083), (409, 52062), (444, 51981), (445, 51978), (457, 51921), (459, 51915), (462, 51903), (473, 51852), (476, 51837), (477, 51828), (483, 51789), (487, 51777), (515, 51681), (518, 51666),

Gene: Damp_57 Start: 51773, Stop: 50361, Start Num: 147

Candidate Starts for Damp_57:

(26, 52121), (58, 51992), (87, 51905), (Start: 89 @51902 has 3 MA's), (Start: 147 @51773 has 27 MA's), (160, 51728), (Start: 183 @51638 has 1 MA's), (184, 51635), (186, 51629), (192, 51608), (216, 51545), (247, 51437), (253, 51419), (272, 51332), (275, 51317), (287, 51275), (303, 51194), (320, 51146), (330, 51104), (336, 51086), (338, 51083), (343, 51056), (356, 51005), (365, 50969), (380, 50918), (400, 50834), (406, 50813), (457, 50657), (459, 50651), (462, 50639), (487, 50513), (518, 50399),

Gene: DannyDe_40 Start: 25175, Stop: 27082, Start Num: 22

Candidate Starts for DannyDe_40:

(4, 25001), (Start: 22 @25175 has 31 MA's), (27, 25238), (45, 25313), (93, 25448), (Start: 113 @25490 has 1 MA's), (130, 25535), (177, 25709), (181, 25718), (210, 25808), (221, 25850), (224, 25865), (266, 26051), (290, 26186), (292, 26198), (300, 26231), (339, 26360), (371, 26477), (444, 26750), (451, 26789), (465, 26849), (483, 26939), (492, 26969), (504, 27011), (520, 27062),

Gene: Dauntless_39 Start: 25497, Stop: 27404, Start Num: 22

Candidate Starts for Dauntless_39:

(4, 25323), (Start: 22 @25497 has 31 MA's), (27, 25560), (30, 25581), (45, 25635), (93, 25770), (104, 25797), (Start: 113 @25812 has 1 MA's), (130, 25857), (177, 26031), (181, 26040), (210, 26130), (221, 26172), (224, 26187), (266, 26373), (290, 26508), (292, 26520), (300, 26553), (339, 26682), (361, 26769), (371, 26799), (444, 27072), (451, 27111), (465, 27171), (483, 27261), (492, 27291), (504, 27333), (520, 27384),

Gene: Dave_41 Start: 31109, Stop: 29721, Start Num: 138

Candidate Starts for Dave_41:

(52, 31331), (Start: 138 @31109 has 140 MA's), (181, 30965), (Start: 183 @30959 has 1 MA's), (184, 30956), (221, 30842), (229, 30815), (243, 30755), (251, 30728), (252, 30725), (272, 30629), (280, 30587), (323, 30416), (328, 30395), (335, 30380), (339, 30368), (348, 30320), (373, 30260), (404, 30164), (424, 30101), (440, 30047), (459, 29963), (460, 29957), (464, 29945), (478, 29870), (481, 29849), (497, 29795), (498, 29792), (504, 29768),

Gene: Delphidian_41 Start: 31117, Stop: 29729, Start Num: 138

Candidate Starts for Delphidian_41:

(52, 31339), (Start: 138 @31117 has 140 MA's), (181, 30973), (Start: 183 @30967 has 1 MA's), (184, 30964), (221, 30850), (229, 30823), (243, 30763), (251, 30736), (252, 30733), (254, 30727), (272, 30637), (280, 30595), (323, 30424), (335, 30388), (339, 30376), (344, 30343), (348, 30328), (373, 30268), (404, 30172), (424, 30109), (440, 30055), (459, 29971), (460, 29965), (464, 29953), (481, 29857), (497, 29803), (498, 29800), (504, 29776),

Gene: Demosthenes_55 Start: 52768, Stop: 51074, Start Num: 40

Candidate Starts for Demosthenes_55:

(Start: 36 @52780 has 6 MA's), (Start: 40 @52768 has 2 MA's), (73, 52669), (Start: 78 @52648 has 1 MA's), (Start: 114 @52582 has 2 MA's), (150, 52483), (160, 52447), (165, 52423), (168, 52414), (170, 52405), (Start: 183 @52357 has 1 MA's), (190, 52333), (201, 52291), (210, 52276), (216, 52261), (231, 52204), (232, 52201), (251, 52141), (252, 52138), (266, 52072), (267, 52069), (275, 52033), (276, 52030), (282, 52012), (284, 52003), (287, 51991), (294, 51943), (303, 51910), (309, 51886), (320, 51862), (325, 51838), (343, 51772), (365, 51673), (399, 51541), (400, 51538), (432, 51472), (444, 51421), (445, 51418), (457, 51361), (462, 51343), (483, 51226), (484, 51223), (488, 51211), (518, 51112), (525, 51091),

Gene: Den3_41 Start: 31123, Stop: 29735, Start Num: 138

Candidate Starts for Den3_41:

(2, 31774), (31, 31420), (52, 31345), (Start: 138 @31123 has 140 MA's), (181, 30979), (Start: 183 @30973 has 1 MA's), (184, 30970), (221, 30856), (229, 30829), (243, 30769), (251, 30742), (252, 30739), (272, 30643), (280, 30601), (323, 30430), (328, 30409), (339, 30382), (348, 30334), (373, 30274), (424, 30115), (440, 30061), (459, 29977), (460, 29971), (464, 29959), (481, 29863), (497, 29809), (498, 29806), (504, 29782),

Gene: Dewdrop_117 Start: 70672, Stop: 72663, Start Num: 7

Candidate Starts for Dewdrop_117:

(Start: 7 @70672 has 4 MA's), (12, 70705), (38, 70900), (Start: 40 @70906 has 2 MA's), (42, 70909), (51, 70939), (59, 70960), (61, 70972), (80, 71026), (99, 71053), (102, 71062), (132, 71116), (Start: 141 @71134 has 21 MA's), (142, 71137), (154, 71188), (164, 71230), (195, 71332), (240, 71494), (247, 71518), (252, 71542), (253, 71545), (258, 71587), (265, 71608), (269, 71632), (272, 71653), (277, 71674), (278, 71683), (295, 71779), (296, 71782), (299, 71794), (301, 71806), (308, 71833), (309, 71842), (311, 71845), (318, 71863), (335, 71917), (344, 71962), (355, 71998), (371, 72046), (397, 72124), (408, 72160), (410, 72175), (414, 72178), (438, 72250), (443, 72292), (452, 72337), (458, 72358), (461, 72370), (463, 72382), (474, 72436), (486, 72496), (491, 72523), (504, 72568), (526, 72646),

Gene: Diabla_63 Start: 53692, Stop: 52283, Start Num: 147

Candidate Starts for Diabla_63:

(26, 54070), (34, 54019), (66, 53914), (76, 53884), (Start: 89 @53851 has 3 MA's), (97, 53842), (Start: 108 @53815 has 25 MA's), (Start: 147 @53692 has 27 MA's), (160, 53647), (170, 53605), (Start: 183 @53557 has 1 MA's), (184, 53554), (186, 53548), (187, 53545), (192, 53527), (197, 53506), (209, 53479), (247, 53356), (253, 53338), (272, 53251), (275, 53236), (295, 53143), (320, 53065), (325, 53041), (336, 53005), (338, 53002), (343, 52975), (353, 52933), (365, 52888), (371, 52870), (386, 52804), (400, 52753), (403, 52738), (409, 52717), (440, 52660), (445, 52633), (457, 52576), (459, 52570), (462, 52558), (473, 52507), (477, 52483), (483, 52444), (487, 52432), (488, 52429), (515, 52336), (518, 52321), (525, 52300),

Gene: DocB7_048 Start: 43676, Stop: 42174, Start Num: 126

Candidate Starts for DocB7_048:

(Start: 126 @43676 has 3 MA's), (153, 43580), (160, 43553), (168, 43520), (175, 43496), (Start: 183 @43466 has 1 MA's), (207, 43391), (233, 43310), (237, 43295), (266, 43184), (271, 43163), (282, 43124), (315, 42986), (320, 42974), (322, 42971), (325, 42950), (344, 42872), (365, 42812), (399, 42677), (400, 42674), (416, 42623), (422, 42602), (434, 42575), (447, 42509), (454, 42482), (456, 42473), (462, 42452), (470, 42416), (477, 42377), (490, 42311), (517, 42215),

Gene: Dothraki_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Dothraki_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (302, 30481), (323, 30421), (335, 30385), (339, 30373), (344, 30340), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Dre3_48 Start: 37401, Stop: 35911, Start Num: 112

Candidate Starts for Dre3_48:

(Start: 112 @37401 has 12 MA's), (128, 37359), (142, 37317), (144, 37311), (Start: 149 @37284 has 1 MA's), (161, 37230), (163, 37224), (172, 37194), (Start: 183 @37167 has 1 MA's), (211, 37086), (212, 37083), (214, 37077), (219, 37056), (236, 36990), (252, 36954), (256, 36930), (261, 36900), (263, 36894), (266, 36888), (279, 36825), (281, 36810), (285, 36795), (313, 36669), (337, 36591), (344, 36552), (347, 36540), (348, 36537), (362, 36501), (368, 36483), (369, 36480), (370, 36477), (374, 36462), (382, 36435), (385, 36423), (414, 36321), (427, 36276), (428, 36273), (440, 36231), (441, 36216), (451, 36168), (453, 36162), (465, 36111), (485, 36015), (491, 35991), (501, 35958), (510, 35925), (511, 35922),

Gene: Dryad_74 Start: 51068, Stop: 49182, Start Num: 17

Candidate Starts for Dryad_74:

(9, 51137), (10, 51128), (11, 51125), (Start: 17 @51068 has 8 MA's), (27, 50990), (28, 50981), (44, 50921), (48, 50900), (58, 50876), (77, 50813), (Start: 113 @50738 has 1 MA's), (123, 50714), (177, 50516), (181, 50507), (215, 50399), (254, 50243), (273, 50138), (283, 50087), (292, 50027), (316,

49940), (317, 49937), (333, 49883), (344, 49832), (346, 49823), (350, 49811), (361, 49778), (381, 49712), (392, 49685), (393, 49682), (424, 49583), (433, 49556), (451, 49466), (465, 49406), (468, 49397), (471, 49382), (481, 49322), (489, 49307), (499, 49268),

Gene: Duocatuli_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Duocatuli_40:

(31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (478, 29564), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Eggsie_57 Start: 51628, Stop: 50060, Start Num: 89

Candidate Starts for Eggsie_57:

(26, 51847), (47, 51745), (58, 51718), (66, 51691), (74, 51670), (76, 51661), (Start: 89 @51628 has 3 MA's), (97, 51619), (Start: 108 @51592 has 25 MA's), (Start: 147 @51469 has 27 MA's), (160, 51424), (170, 51382), (Start: 183 @51334 has 1 MA's), (184, 51331), (186, 51325), (187, 51322), (192, 51304), (197, 51283), (209, 51256), (247, 51133), (253, 51115), (272, 51028), (275, 51013), (295, 50920), (320, 50842), (325, 50818), (336, 50782), (338, 50779), (343, 50752), (353, 50710), (365, 50665), (371, 50647), (386, 50581), (400, 50530), (403, 50515), (409, 50494), (440, 50437), (445, 50410), (457, 50353), (459, 50347), (462, 50335), (473, 50284), (477, 50260), (483, 50221), (487, 50209), (488, 50206), (515, 50113), (518, 50098), (525, 50077),

Gene: Ekhein_59 Start: 51454, Stop: 49922, Start Num: 108

Candidate Starts for Ekhein_59:

(26, 51709), (34, 51658), (47, 51607), (66, 51553), (76, 51523), (Start: 89 @51490 has 3 MA's), (97, 51481), (Start: 108 @51454 has 25 MA's), (160, 51286), (170, 51244), (Start: 183 @51196 has 1 MA's), (187, 51184), (190, 51172), (192, 51166), (197, 51145), (209, 51118), (253, 50977), (272, 50890), (275, 50875), (280, 50863), (287, 50833), (295, 50782), (302, 50755), (320, 50704), (330, 50662), (336, 50644), (338, 50641), (343, 50614), (353, 50572), (365, 50527), (400, 50392), (403, 50377), (409, 50356), (440, 50299), (444, 50275), (445, 50272), (457, 50215), (459, 50209), (460, 50203), (462, 50197), (473, 50146), (477, 50122), (483, 50083), (487, 50071), (488, 50068), (515, 49975), (518, 49960), (525, 49939),

Gene: Eleri_40 Start: 30943, Stop: 29531, Start Num: 141

Candidate Starts for Eleri_40:

(Start: 141 @30943 has 21 MA's), (Start: 147 @30913 has 27 MA's), (Start: 149 @30907 has 1 MA's), (159, 30874), (221, 30682), (229, 30655), (243, 30595), (251, 30568), (252, 30565), (258, 30523), (272, 30469), (280, 30427), (323, 30256), (328, 30235), (335, 30220), (339, 30208), (341, 30196), (342, 30193), (344, 30175), (362, 30094), (373, 30058), (391, 30004), (402, 29962), (414, 29932), (420, 29908), (423, 29902), (438, 29860), (450, 29791), (457, 29767), (459, 29761), (460, 29755), (464, 29743), (481, 29647), (484, 29638), (490, 29620), (492, 29608), (505, 29563),

Gene: Elinal_60 Start: 40792, Stop: 39314, Start Num: 109

Candidate Starts for Elinal_60:

(Start: 109 @40792 has 35 MA's), (134, 40729), (142, 40708), (144, 40702), (Start: 149 @40675 has 1 MA's), (161, 40621), (172, 40585), (177, 40570), (211, 40474), (214, 40465), (219, 40444), (236, 40378), (252, 40342), (261, 40288), (263, 40282), (266, 40276), (281, 40198), (285, 40183), (304, 40084), (326, 40009), (335, 39985), (339, 39973), (343, 39952), (345, 39937), (347, 39928), (354, 39907), (369, 39868), (372, 39859), (376, 39844), (394, 39793), (415, 39721), (427, 39679), (428, 39676), (433, 39661), (453, 39565), (465, 39514), (472, 39484), (478, 39451), (491, 39394), (496, 39379),

Gene: Elliott_53 Start: 38726, Stop: 37248, Start Num: 109

Candidate Starts for Elliott_53:

(Start: 109 @38726 has 35 MA's), (142, 38639), (144, 38633), (161, 38552), (168, 38531), (211, 38408), (212, 38405), (261, 38222), (263, 38216), (266, 38210), (281, 38132), (304, 38018), (313, 37991), (323, 37967), (339, 37907), (347, 37862), (354, 37841), (369, 37802), (374, 37784), (413, 37667), (427, 37619), (428, 37616), (433, 37601), (453, 37505), (459, 37484), (465, 37454),

Gene: Emalyn_52 Start: 37827, Stop: 36349, Start Num: 109

Candidate Starts for Emalyn_52:

(Start: 109 @37827 has 35 MA's), (142, 37740), (144, 37734), (168, 37632), (Start: 183 @37590 has 1 MA's), (201, 37533), (209, 37515), (211, 37509), (252, 37377), (261, 37323), (263, 37317), (266, 37311), (281, 37233), (304, 37119), (313, 37092), (323, 37068), (332, 37029), (343, 36987), (347, 36963), (354, 36942), (369, 36903), (374, 36885), (376, 36879), (400, 36813), (413, 36768), (427, 36720), (428, 36717), (433, 36702), (453, 36606), (459, 36585), (465, 36555), (472, 36525), (505, 36387),

Gene: Endor_41 Start: 31504, Stop: 30116, Start Num: 138

Candidate Starts for Endor_41:

(86, 31618), (100, 31597), (Start: 138 @31504 has 140 MA's), (181, 31360), (Start: 183 @31354 has 1 MA's), (184, 31351), (221, 31237), (229, 31210), (243, 31150), (251, 31123), (252, 31120), (272, 31024), (280, 30982), (323, 30811), (328, 30790), (348, 30715), (373, 30655), (404, 30559), (440, 30442), (443, 30424), (459, 30358), (460, 30352), (464, 30340), (481, 30244), (497, 30190), (498, 30187), (504, 30163), (513, 30133),

Gene: Erla_40 Start: 30799, Stop: 29411, Start Num: 138

Candidate Starts for Erla_40:

(52, 31021), (Start: 138 @30799 has 140 MA's), (181, 30655), (Start: 183 @30649 has 1 MA's), (184, 30646), (221, 30532), (229, 30505), (243, 30445), (251, 30418), (252, 30415), (272, 30319), (280, 30277), (323, 30106), (328, 30085), (335, 30070), (339, 30058), (348, 30010), (373, 29950), (404, 29854), (424, 29791), (440, 29737), (459, 29653), (460, 29647), (464, 29635), (478, 29560), (481, 29539), (497, 29485), (498, 29482), (504, 29458),

Gene: Erudite_39 Start: 25497, Stop: 27404, Start Num: 22

Candidate Starts for Erudite_39:

(4, 25323), (Start: 22 @25497 has 31 MA's), (27, 25560), (30, 25581), (45, 25635), (93, 25770), (104, 25797), (Start: 113 @25812 has 1 MA's), (130, 25857), (177, 26031), (181, 26040), (210, 26130), (221, 26172), (224, 26187), (266, 26373), (290, 26508), (292, 26520), (300, 26553), (339, 26682), (361, 26769), (371, 26799), (444, 27072), (451, 27111), (465, 27171), (483, 27261), (492, 27291), (504, 27333), (520, 27384),

Gene: Espinosa_40 Start: 30814, Stop: 29426, Start Num: 138

Candidate Starts for Espinosa_40:

(52, 31036), (Start: 138 @30814 has 140 MA's), (181, 30670), (Start: 183 @30664 has 1 MA's), (184, 30661), (221, 30547), (229, 30520), (243, 30460), (251, 30433), (252, 30430), (272, 30334), (280, 30292), (323, 30121), (328, 30100), (335, 30085), (348, 30025), (373, 29965), (404, 29869), (424, 29806), (440, 29752), (459, 29668), (460, 29662), (464, 29650), (481, 29554), (497, 29500), (498, 29497), (504, 29473),

Gene: Etna_40 Start: 31284, Stop: 29893, Start Num: 138

Candidate Starts for Etna_40:

(86, 31398), (129, 31314), (Start: 138 @31284 has 140 MA's), (181, 31137), (Start: 183 @31131 has 1 MA's), (184, 31128), (221, 31014), (229, 30987), (243, 30927), (251, 30900), (252, 30897), (272, 30801), (280, 30759), (323, 30588), (328, 30567), (373, 30432), (404, 30336), (440, 30219), (443,

30201), (459, 30135), (460, 30129), (464, 30117), (481, 30021), (497, 29967), (498, 29964), (504, 29940), (513, 29910),

Gene: Etta_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Etta_40:

(52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (339, 30062), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (478, 29564), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Exiguo_58 Start: 51466, Stop: 49934, Start Num: 108

Candidate Starts for Exiguo_58:

(26, 51721), (34, 51670), (47, 51619), (66, 51565), (76, 51535), (Start: 89 @51502 has 3 MA's), (97, 51493), (Start: 108 @51466 has 25 MA's), (160, 51298), (170, 51256), (Start: 183 @51208 has 1 MA's), (187, 51196), (190, 51184), (192, 51178), (197, 51157), (209, 51130), (253, 50989), (272, 50902), (275, 50887), (280, 50875), (287, 50845), (295, 50794), (302, 50767), (320, 50716), (330, 50674), (336, 50656), (338, 50653), (343, 50626), (353, 50584), (365, 50539), (400, 50404), (403, 50389), (409, 50368), (440, 50311), (444, 50287), (445, 50284), (457, 50227), (459, 50221), (460, 50215), (462, 50209), (473, 50158), (477, 50134), (483, 50095), (487, 50083), (488, 50080), (515, 49987), (518, 49972), (525, 49951),

Gene: Exploradora_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Exploradora_40:

(52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: FF47_48 Start: 38882, Stop: 37371, Start Num: 92

Candidate Starts for FF47_48:

(Start: 92 @38882 has 2 MA's), (Start: 112 @38846 has 12 MA's), (143, 38756), (144, 38753), (154, 38705), (172, 38636), (213, 38522), (253, 38393), (261, 38342), (263, 38336), (266, 38330), (270, 38306), (281, 38252), (313, 38111), (314, 38108), (331, 38051), (347, 37979), (348, 37976), (414, 37781), (427, 37736), (450, 37631), (465, 37571), (505, 37403), (511, 37382),

Gene: FarmerDoug_40 Start: 31139, Stop: 29748, Start Num: 138

Candidate Starts for FarmerDoug_40:

(29, 31427), (35, 31406), (Start: 138 @31139 has 140 MA's), (181, 30992), (Start: 183 @30986 has 1 MA's), (184, 30983), (201, 30923), (221, 30869), (229, 30842), (243, 30782), (251, 30755), (252, 30752), (272, 30656), (280, 30614), (323, 30443), (328, 30422), (339, 30395), (348, 30347), (368, 30305), (373, 30287), (404, 30191), (440, 30074), (443, 30056), (452, 30014), (459, 29990), (460, 29984), (464, 29972), (481, 29876), (497, 29822), (498, 29819), (504, 29795), (513, 29765),

Gene: Feastonyeet_56 Start: 40283, Stop: 38805, Start Num: 109

Candidate Starts for Feastonyeet_56:

(67, 40361), (93, 40310), (95, 40307), (Start: 109 @40283 has 35 MA's), (134, 40220), (142, 40199), (144, 40193), (Start: 149 @40166 has 1 MA's), (161, 40112), (172, 40076), (177, 40061), (211, 39965), (214, 39956), (219, 39935), (236, 39869), (252, 39833), (261, 39779), (263, 39773), (266, 39767), (281, 39689), (285, 39674), (304, 39575), (326, 39500), (335, 39476), (339, 39464), (343, 39443), (345, 39428), (347, 39419), (354, 39398), (369, 39359), (372, 39350), (376, 39335), (394, 39284), (415, 39212), (427, 39170), (433, 39152), (453, 39056), (465, 39005), (472, 38975), (478, 38942),

(491, 38885), (496, 38870),

Gene: FelixAlejandro_64 Start: 54160, Stop: 52628, Start Num: 108

Candidate Starts for FelixAlejandro_64:

(26, 54415), (34, 54364), (66, 54259), (76, 54229), (Start: 89 @54196 has 3 MA's), (97, 54187), (Start: 108 @54160 has 25 MA's), (150, 54028), (160, 53992), (170, 53950), (176, 53932), (Start: 183 @53902 has 1 MA's), (187, 53890), (190, 53878), (192, 53872), (197, 53851), (253, 53683), (272, 53596), (275, 53581), (280, 53569), (287, 53539), (295, 53488), (320, 53410), (325, 53386), (330, 53368), (336, 53350), (338, 53347), (340, 53338), (343, 53320), (365, 53233), (400, 53098), (403, 53083), (409, 53062), (444, 52981), (445, 52978), (457, 52921), (459, 52915), (462, 52903), (473, 52852), (477, 52828), (483, 52789), (487, 52777), (488, 52774), (515, 52681), (518, 52666), (525, 52645),

Gene: Figueroism_41 Start: 31108, Stop: 29720, Start Num: 138

Candidate Starts for Figueroism_41:

(52, 31330), (Start: 138 @31108 has 140 MA's), (181, 30964), (Start: 183 @30958 has 1 MA's), (184, 30955), (221, 30841), (229, 30814), (243, 30754), (251, 30727), (252, 30724), (272, 30628), (280, 30586), (323, 30415), (328, 30394), (335, 30379), (339, 30367), (348, 30319), (373, 30259), (404, 30163), (424, 30100), (440, 30046), (459, 29962), (460, 29956), (464, 29944), (481, 29848), (497, 29794), (498, 29791), (504, 29767),

Gene: Finny_41 Start: 30901, Stop: 29525, Start Num: 149

Candidate Starts for Finny_41:

(Start: 140 @30940 has 10 MA's), (Start: 141 @30937 has 21 MA's), (Start: 147 @30907 has 27 MA's), (Start: 149 @30901 has 1 MA's), (159, 30868), (221, 30676), (229, 30649), (243, 30589), (251, 30562), (252, 30559), (258, 30517), (272, 30463), (280, 30421), (303, 30307), (323, 30250), (328, 30229), (339, 30202), (341, 30190), (342, 30187), (344, 30169), (362, 30088), (373, 30052), (391, 29998), (402, 29956), (414, 29926), (420, 29902), (423, 29896), (438, 29854), (450, 29785), (457, 29761), (459, 29755), (460, 29749), (464, 29737), (490, 29614), (492, 29602), (505, 29557),

Gene: Flakey_58 Start: 52330, Stop: 50798, Start Num: 108

Candidate Starts for Flakey_58:

(26, 52585), (34, 52534), (47, 52483), (66, 52429), (76, 52399), (Start: 89 @52366 has 3 MA's), (97, 52357), (Start: 108 @52330 has 25 MA's), (160, 52162), (170, 52120), (Start: 183 @52072 has 1 MA's), (187, 52060), (190, 52048), (192, 52042), (197, 52021), (209, 51994), (253, 51853), (272, 51766), (275, 51751), (280, 51739), (287, 51709), (295, 51658), (302, 51631), (320, 51580), (330, 51538), (336, 51520), (338, 51517), (343, 51490), (353, 51448), (365, 51403), (400, 51268), (403, 51253), (409, 51232), (440, 51175), (444, 51151), (445, 51148), (457, 51091), (459, 51085), (460, 51079), (462, 51073), (473, 51022), (477, 50998), (483, 50959), (487, 50947), (488, 50944), (515, 50851), (518, 50836), (525, 50815),

Gene: FreddieHg_40 Start: 25185, Stop: 27092, Start Num: 22

Candidate Starts for FreddieHg_40:

(4, 25011), (Start: 22 @25185 has 31 MA's), (27, 25248), (30, 25269), (45, 25323), (93, 25458), (Start: 113 @25500 has 1 MA's), (130, 25545), (177, 25719), (181, 25728), (210, 25818), (221, 25860), (224, 25875), (266, 26061), (290, 26196), (292, 26208), (300, 26241), (339, 26370), (371, 26487), (444, 26760), (451, 26799), (465, 26859), (483, 26949), (492, 26979), (504, 27021), (520, 27072),

Gene: Fribs8_48 Start: 37679, Stop: 36189, Start Num: 112

Candidate Starts for Fribs8_48:

(Start: 112 @37679 has 12 MA's), (142, 37595), (144, 37589), (Start: 149 @37562 has 1 MA's), (161, 37508), (163, 37502), (172, 37472), (Start: 183 @37445 has 1 MA's), (211, 37364), (212, 37361), (214, 37355), (219, 37334), (236, 37268), (252, 37232), (256, 37208), (261, 37178), (262, 37175), (263,

37172), (266, 37166), (279, 37103), (281, 37088), (285, 37073), (313, 36947), (326, 36899), (343, 36842), (344, 36830), (347, 36818), (348, 36815), (362, 36779), (369, 36758), (370, 36755), (374, 36740), (382, 36713), (391, 36677), (394, 36668), (414, 36599), (427, 36554), (440, 36509), (441, 36494), (446, 36464), (453, 36440), (465, 36389), (472, 36359), (485, 36293), (491, 36269), (501, 36236), (511, 36200),

Gene: Fulton_40 Start: 29072, Stop: 27645, Start Num: 138

Candidate Starts for Fulton_40:

(Start: 138 @29072 has 140 MA's), (146, 29042), (Start: 147 @29036 has 27 MA's), (Start: 183 @28922 has 1 MA's), (184, 28919), (251, 28682), (252, 28679), (303, 28424), (321, 28373), (323, 28367), (339, 28319), (344, 28286), (348, 28271), (365, 28199), (373, 28172), (376, 28163), (391, 28118), (393, 28112), (401, 28085), (424, 28013), (443, 27941), (450, 27905), (453, 27896), (457, 27881), (459, 27875), (464, 27857), (472, 27815), (484, 27752), (502, 27689), (504, 27680),

Gene: GMA3_58 Start: 50868, Stop: 49351, Start Num: 126

Candidate Starts for GMA3_58:

(33, 51117), (35, 51111), (56, 51039), (Start: 126 @50868 has 3 MA's), (153, 50772), (160, 50745), (165, 50727), (168, 50718), (177, 50691), (Start: 183 @50673 has 1 MA's), (192, 50643), (199, 50613), (207, 50592), (216, 50571), (237, 50493), (247, 50463), (252, 50448), (255, 50427), (276, 50334), (286, 50298), (295, 50244), (320, 50166), (338, 50103), (343, 50076), (345, 50061), (347, 50052), (369, 49989), (380, 49950), (392, 49890), (398, 49869), (399, 49866), (400, 49863), (411, 49815), (451, 49653), (462, 49611), (472, 49563), (483, 49497), (487, 49485),

Gene: GMA7_51 Start: 46927, Stop: 45296, Start Num: 49

Candidate Starts for GMA7_51:

(Start: 49 @46927 has 3 MA's), (55, 46915), (74, 46864), (75, 46858), (103, 46801), (160, 46660), (170, 46618), (174, 46606), (Start: 183 @46570 has 1 MA's), (184, 46567), (192, 46540), (201, 46504), (209, 46492), (216, 46477), (247, 46369), (272, 46264), (275, 46249), (303, 46126), (320, 46078), (325, 46054), (330, 46036), (343, 45988), (356, 45937), (365, 45901), (371, 45883), (400, 45766), (420, 45715), (440, 45673), (451, 45613), (462, 45571), (473, 45520), (477, 45496), (518, 45334), (525, 45313),

Gene: GTE2_44 Start: 38337, Stop: 36952, Start Num: 144

Candidate Starts for GTE2_44:

(Start: 109 @38430 has 35 MA's), (144, 38337), (Start: 149 @38310 has 1 MA's), (168, 38235), (172, 38220), (Start: 183 @38193 has 1 MA's), (211, 38112), (252, 37980), (261, 37926), (263, 37920), (266, 37914), (281, 37836), (304, 37722), (313, 37695), (332, 37632), (347, 37566), (354, 37545), (369, 37506), (374, 37488), (376, 37482), (413, 37371), (427, 37323), (433, 37305), (453, 37209), (459, 37188), (465, 37158),

Gene: GTE7_50 Start: 46958, Stop: 45327, Start Num: 49

Candidate Starts for GTE7_50:

(Start: 49 @46958 has 3 MA's), (55, 46946), (74, 46895), (75, 46889), (103, 46832), (160, 46691), (170, 46649), (174, 46637), (Start: 183 @46601 has 1 MA's), (184, 46598), (192, 46571), (209, 46523), (216, 46508), (247, 46400), (272, 46295), (275, 46280), (303, 46157), (320, 46109), (325, 46085), (330, 46067), (343, 46019), (356, 45968), (365, 45932), (371, 45914), (400, 45797), (420, 45746), (440, 45704), (451, 45644), (462, 45602), (473, 45551), (477, 45527), (518, 45365), (525, 45344),

Gene: GaeCeo_42 Start: 31326, Stop: 29935, Start Num: 138

Candidate Starts for GaeCeo_42:

(Start: 138 @31326 has 140 MA's), (181, 31182), (Start: 183 @31176 has 1 MA's), (201, 31113), (229, 31032), (243, 30972), (251, 30945), (252, 30942), (254, 30936), (272, 30846), (280, 30804), (323, 30633), (328, 30612), (335, 30597), (339, 30585), (349, 30534), (373, 30477), (377, 30465), (424,

30315), (429, 30303), (443, 30243), (450, 30207), (452, 30201), (457, 30183), (459, 30177), (460, 30171), (472, 30117), (478, 30084), (481, 30063), (492, 30024),

Gene: GalacticEye_57 Start: 52570, Stop: 51158, Start Num: 147

Candidate Starts for GalacticEye_57:

(26, 52918), (58, 52789), (87, 52702), (Start: 89 @52699 has 3 MA's), (Start: 147 @52570 has 27 MA's), (160, 52525), (Start: 183 @52435 has 1 MA's), (184, 52432), (186, 52426), (192, 52405), (216, 52342), (247, 52234), (253, 52216), (272, 52129), (275, 52114), (287, 52072), (303, 51991), (320, 51943), (330, 51901), (336, 51883), (338, 51880), (343, 51853), (356, 51802), (365, 51766), (380, 51715), (400, 51631), (406, 51610), (457, 51454), (459, 51448), (462, 51436), (487, 51310), (518, 51196),

Gene: GardenB_40 Start: 31225, Stop: 29840, Start Num: 138

Candidate Starts for GardenB_40:

(129, 31255), (Start: 138 @31225 has 140 MA's), (172, 31102), (181, 31081), (Start: 183 @31075 has 1 MA's), (184, 31072), (221, 30958), (243, 30871), (251, 30844), (252, 30841), (272, 30745), (280, 30703), (323, 30532), (335, 30496), (373, 30376), (380, 30352), (424, 30217), (440, 30163), (452, 30103), (459, 30079), (460, 30073), (464, 30061), (481, 29965), (497, 29911),

Gene: Garey24_41 Start: 30782, Stop: 29394, Start Num: 138

Candidate Starts for Garey24_41:

(52, 31004), (Start: 138 @30782 has 140 MA's), (181, 30638), (Start: 183 @30632 has 1 MA's), (184, 30629), (221, 30515), (229, 30488), (243, 30428), (251, 30401), (252, 30398), (272, 30302), (280, 30260), (323, 30089), (328, 30068), (335, 30053), (339, 30041), (348, 29993), (373, 29933), (424, 29774), (440, 29720), (459, 29636), (460, 29630), (464, 29618), (478, 29543), (481, 29522), (497, 29468), (498, 29465), (504, 29441),

Gene: Gargoyle_41 Start: 31123, Stop: 29735, Start Num: 138

Candidate Starts for Gargoyle_41:

(2, 31774), (31, 31420), (52, 31345), (Start: 138 @31123 has 140 MA's), (181, 30979), (Start: 183 @30973 has 1 MA's), (184, 30970), (221, 30856), (229, 30829), (243, 30769), (251, 30742), (252, 30739), (272, 30643), (280, 30601), (323, 30430), (328, 30409), (335, 30394), (348, 30334), (373, 30274), (404, 30178), (424, 30115), (440, 30061), (459, 29977), (460, 29971), (464, 29959), (481, 29863), (497, 29809), (498, 29806), (504, 29782),

Gene: Gelo_40 Start: 30809, Stop: 29421, Start Num: 138

Candidate Starts for Gelo_40:

(52, 31031), (Start: 138 @30809 has 140 MA's), (181, 30665), (Start: 183 @30659 has 1 MA's), (184, 30656), (221, 30542), (229, 30515), (243, 30455), (251, 30428), (252, 30425), (272, 30329), (280, 30287), (323, 30116), (328, 30095), (335, 30080), (339, 30068), (348, 30020), (373, 29960), (404, 29864), (424, 29801), (440, 29747), (459, 29663), (460, 29657), (464, 29645), (478, 29570), (481, 29549), (497, 29495), (498, 29492), (504, 29468),

Gene: Gershwin_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for Gershwin_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (271, 30339), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (339, 30075), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (478, 29577), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: GiKK_57 Start: 39360, Stop: 37885, Start Num: 112

Candidate Starts for GiKK_57:

(Start: 112 @39360 has 12 MA's), (128, 39318), (144, 39270), (Start: 149 @39243 has 1 MA's), (161, 39189), (168, 39168), (170, 39159), (172, 39153), (201, 39069), (204, 39060), (212, 39042), (214, 39036), (252, 38913), (261, 38859), (263, 38853), (266, 38847), (275, 38802), (281, 38769), (335, 38556), (343, 38523), (352, 38484), (369, 38439), (374, 38421), (376, 38415), (392, 38370), (394, 38364), (400, 38343), (414, 38295), (415, 38292), (427, 38250), (428, 38247), (433, 38232), (453, 38136), (465, 38085), (466, 38082), (478, 38022), (485, 37989), (490, 37974), (491, 37965), (504, 37920), (510, 37899),

Gene: Gibbles_56 Start: 50443, Stop: 48953, Start Num: 124

Candidate Starts for Gibbles_56:

(Start: 124 @50443 has 5 MA's), (150, 50350), (153, 50341), (156, 50329), (160, 50314), (165, 50296), (184, 50239), (204, 50167), (205, 50164), (230, 50071), (239, 50038), (251, 50005), (252, 50002), (255, 49981), (272, 49912), (282, 49876), (299, 49789), (314, 49738), (320, 49726), (322, 49723), (327, 49693), (345, 49621), (347, 49612), (384, 49489), (386, 49483), (445, 49309), (454, 49264), (462, 49234), (523, 48982),

Gene: Gibbous_48 Start: 37401, Stop: 35911, Start Num: 112

Candidate Starts for Gibbous_48:

(Start: 112 @37401 has 12 MA's), (128, 37359), (142, 37317), (144, 37311), (Start: 149 @37284 has 1 MA's), (161, 37230), (163, 37224), (172, 37194), (Start: 183 @37167 has 1 MA's), (211, 37086), (212, 37083), (214, 37077), (219, 37056), (236, 36990), (252, 36954), (256, 36930), (261, 36900), (263, 36894), (266, 36888), (279, 36825), (281, 36810), (285, 36795), (313, 36669), (337, 36591), (344, 36552), (347, 36540), (348, 36537), (362, 36501), (368, 36483), (369, 36480), (370, 36477), (374, 36462), (382, 36435), (385, 36423), (414, 36321), (427, 36276), (428, 36273), (440, 36231), (441, 36216), (451, 36168), (453, 36162), (465, 36111), (485, 36015), (491, 35991), (501, 35958), (510, 35925), (511, 35922),

Gene: Gibson_70 Start: 50318, Stop: 48432, Start Num: 17

Candidate Starts for Gibson_70:

(Start: 17 @50318 has 8 MA's), (Start: 22 @50303 has 31 MA's), (27, 50240), (28, 50231), (58, 50126), (71, 50087), (77, 50063), (Start: 113 @49988 has 1 MA's), (123, 49964), (164, 49805), (177, 49766), (181, 49757), (215, 49649), (241, 49541), (273, 49388), (283, 49337), (292, 49277), (316, 49190), (317, 49187), (344, 49082), (346, 49073), (350, 49061), (381, 48962), (419, 48845), (424, 48833), (433, 48806), (451, 48716), (455, 48701), (468, 48647), (479, 48590), (508, 48482), (515, 48464),

Gene: Gilda_40 Start: 25935, Stop: 27842, Start Num: 22

Candidate Starts for Gilda_40:

(Start: 22 @25935 has 31 MA's), (27, 25998), (30, 26019), (45, 26073), (Start: 113 @26250 has 1 MA's), (130, 26295), (177, 26469), (181, 26478), (210, 26568), (224, 26625), (266, 26811), (290, 26946), (292, 26958), (300, 26991), (339, 27120), (371, 27237), (393, 27312), (450, 27546), (451, 27549), (465, 27609), (483, 27699), (492, 27729), (504, 27771), (520, 27822),

Gene: Glamour_40 Start: 31091, Stop: 29679, Start Num: 141

Candidate Starts for Glamour_40:

(Start: 141 @31091 has 21 MA's), (Start: 147 @31061 has 27 MA's), (Start: 149 @31055 has 1 MA's), (159, 31022), (221, 30830), (229, 30803), (243, 30743), (251, 30716), (252, 30713), (258, 30671), (272, 30617), (280, 30575), (303, 30461), (323, 30404), (328, 30383), (335, 30368), (339, 30356), (341, 30344), (342, 30341), (344, 30323), (362, 30242), (373, 30206), (391, 30152), (402, 30110), (414, 30080), (420, 30056), (423, 30050), (438, 30008), (450, 29939), (457, 29915), (459, 29909), (460, 29903), (464, 29891), (481, 29795), (484, 29786), (490, 29768), (492, 29756), (505, 29711),

Gene: Gmala1_55 Start: 48612, Stop: 47071, Start Num: 119

Candidate Starts for Gmala1_55:

(119, 48612), (153, 48507), (160, 48480), (177, 48426), (Start: 183 @48408 has 1 MA's), (199, 48348), (202, 48339), (220, 48288), (229, 48264), (231, 48252), (233, 48246), (247, 48201), (252, 48186), (255, 48165), (256, 48162), (280, 48063), (286, 48036), (303, 47952), (309, 47928), (320, 47904), (327, 47871), (347, 47790), (364, 47742), (369, 47727), (390, 47634), (398, 47607), (399, 47604), (418, 47520), (431, 47484), (435, 47469), (444, 47424), (460, 47352), (462, 47346), (490, 47205), (523, 47106), (524, 47103),

Gene: GoldHunter_54 Start: 38843, Stop: 37365, Start Num: 109

Candidate Starts for GoldHunter_54:

(Start: 109 @38843 has 35 MA's), (142, 38756), (144, 38750), (161, 38669), (168, 38648), (211, 38525), (212, 38522), (261, 38339), (263, 38333), (266, 38327), (281, 38249), (304, 38135), (313, 38108), (323, 38084), (339, 38024), (347, 37979), (354, 37958), (369, 37919), (374, 37901), (413, 37784), (427, 37736), (428, 37733), (433, 37718), (453, 37622), (459, 37601), (465, 37571),

Gene: Golden_39 Start: 30647, Stop: 29256, Start Num: 140

Candidate Starts for Golden_39:

(Start: 140 @30647 has 10 MA's), (Start: 141 @30644 has 21 MA's), (Start: 147 @30614 has 27 MA's), (181, 30506), (184, 30497), (199, 30443), (228, 30362), (243, 30296), (252, 30266), (259, 30221), (272, 30170), (319, 29966), (323, 29957), (335, 29918), (339, 29906), (341, 29894), (342, 29891), (349, 29855), (352, 29846), (362, 29831), (373, 29795), (377, 29783), (380, 29771), (404, 29696), (424, 29636), (450, 29528), (453, 29519), (457, 29504), (459, 29498), (460, 29492), (515, 29270),

Gene: GordDuk1_59 Start: 49176, Stop: 47635, Start Num: 119

Candidate Starts for GordDuk1_59:

(119, 49176), (153, 49071), (160, 49044), (177, 48990), (Start: 183 @48972 has 1 MA's), (199, 48912), (202, 48903), (220, 48852), (229, 48828), (231, 48816), (233, 48810), (247, 48765), (252, 48750), (255, 48729), (256, 48726), (280, 48627), (286, 48600), (303, 48516), (309, 48492), (320, 48468), (327, 48435), (330, 48426), (343, 48378), (347, 48354), (364, 48306), (390, 48198), (398, 48171), (418, 48084), (431, 48048), (435, 48033), (444, 47988), (460, 47916), (462, 47910), (523, 47670), (524, 47667),

Gene: GordTnk2_60 Start: 49330, Stop: 47789, Start Num: 119

Candidate Starts for GordTnk2_60:

(119, 49330), (153, 49225), (160, 49198), (177, 49144), (Start: 183 @49126 has 1 MA's), (199, 49066), (202, 49057), (220, 49006), (229, 48982), (231, 48970), (233, 48964), (247, 48919), (252, 48904), (255, 48883), (256, 48880), (280, 48781), (286, 48754), (303, 48670), (309, 48646), (320, 48622), (327, 48589), (347, 48508), (364, 48460), (390, 48352), (398, 48325), (399, 48322), (418, 48238), (431, 48202), (435, 48187), (444, 48142), (460, 48070), (462, 48064), (490, 47923), (523, 47824), (524, 47821),

Gene: Gorko_58 Start: 51458, Stop: 49926, Start Num: 108

Candidate Starts for Gorko_58:

(26, 51713), (34, 51662), (47, 51611), (66, 51557), (76, 51527), (Start: 89 @51494 has 3 MA's), (97, 51485), (Start: 108 @51458 has 25 MA's), (160, 51290), (170, 51248), (Start: 183 @51200 has 1 MA's), (187, 51188), (190, 51176), (192, 51170), (197, 51149), (209, 51122), (253, 50981), (272, 50894), (275, 50879), (280, 50867), (287, 50837), (295, 50786), (302, 50759), (320, 50708), (336, 50648), (338, 50645), (343, 50618), (353, 50576), (365, 50531), (400, 50396), (403, 50381), (409, 50360), (444, 50279), (445, 50276), (457, 50219), (459, 50213), (460, 50207), (462, 50201), (477, 50126), (483, 50087), (487, 50075), (488, 50072), (515, 49979), (518, 49964), (525, 49943),

Gene: GourdThymes_59 Start: 52332, Stop: 50800, Start Num: 108

Candidate Starts for GourdThymes_59:

(26, 52587), (34, 52536), (47, 52485), (66, 52431), (76, 52401), (Start: 89 @52368 has 3 MA's), (97, 52359), (Start: 108 @52332 has 25 MA's), (160, 52164), (170, 52122), (Start: 183 @52074 has 1 MA's), (187, 52062), (190, 52050), (192, 52044), (197, 52023), (209, 51996), (253, 51855), (272, 51768), (275, 51753), (280, 51741), (287, 51711), (295, 51660), (302, 51633), (320, 51582), (325, 51558), (330, 51540), (336, 51522), (338, 51519), (343, 51492), (353, 51450), (365, 51405), (400, 51270), (403, 51255), (409, 51234), (440, 51177), (444, 51153), (445, 51150), (457, 51093), (459, 51087), (460, 51081), (462, 51075), (473, 51024), (477, 51000), (483, 50961), (487, 50949), (488, 50946), (515, 50853), (518, 50838), (525, 50817),

Gene: Greenlvy_40 Start: 29681, Stop: 28254, Start Num: 138

Candidate Starts for Greenlvy_40:

(38, 29951), (46, 29927), (55, 29900), (70, 29852), (82, 29813), (Start: 138 @29681 has 140 MA's), (146, 29651), (Start: 147 @29645 has 27 MA's), (Start: 183 @29531 has 1 MA's), (184, 29528), (185, 29525), (251, 29291), (252, 29288), (303, 29033), (321, 28982), (323, 28976), (339, 28928), (344, 28895), (373, 28781), (376, 28772), (391, 28727), (393, 28721), (401, 28694), (424, 28622), (443, 28550), (450, 28514), (453, 28505), (457, 28490), (459, 28484), (464, 28466), (472, 28424), (484, 28361), (504, 28289),

Gene: Greenbelt_105 Start: 46451, Stop: 44553, Start Num: 14

Candidate Starts for Greenbelt_105:

(11, 46496), (14, 46451), (15, 46445), (18, 46433), (28, 46355), (45, 46289), (50, 46271), (58, 46250), (72, 46205), (77, 46187), (90, 46157), (Start: 113 @46112 has 1 MA's), (123, 46088), (158, 45962), (180, 45887), (181, 45884), (191, 45851), (200, 45818), (215, 45779), (242, 45668), (252, 45629), (267, 45554), (292, 45407), (300, 45374), (317, 45317), (344, 45212), (350, 45191), (396, 45050), (424, 44960), (436, 44927), (455, 44828), (465, 44783), (468, 44774), (500, 44639), (520, 44573), (522, 44570),

Gene: Greys_41 Start: 31116, Stop: 29728, Start Num: 138

Candidate Starts for Greys_41:

(2, 31767), (31, 31413), (52, 31338), (Start: 138 @31116 has 140 MA's), (181, 30972), (Start: 183 @30966 has 1 MA's), (184, 30963), (221, 30849), (229, 30822), (243, 30762), (251, 30735), (252, 30732), (272, 30636), (280, 30594), (323, 30423), (328, 30402), (339, 30375), (348, 30327), (373, 30267), (424, 30108), (440, 30054), (459, 29970), (460, 29964), (464, 29952), (481, 29856), (497, 29802), (498, 29799), (504, 29775),

Gene: Gubbabump_40 Start: 30796, Stop: 29408, Start Num: 138

Candidate Starts for Gubbabump_40:

(2, 31447), (31, 31093), (52, 31018), (Start: 138 @30796 has 140 MA's), (181, 30652), (Start: 183 @30646 has 1 MA's), (184, 30643), (221, 30529), (229, 30502), (243, 30442), (251, 30415), (252, 30412), (272, 30316), (280, 30274), (323, 30103), (328, 30082), (335, 30067), (348, 30007), (373, 29947), (404, 29851), (424, 29788), (440, 29734), (459, 29650), (460, 29644), (464, 29632), (481, 29536), (497, 29482), (498, 29479), (504, 29455),

Gene: Guetzie_40 Start: 30629, Stop: 29241, Start Num: 141

Candidate Starts for Guetzie_40:

(Start: 140 @30632 has 10 MA's), (Start: 141 @30629 has 21 MA's), (Start: 147 @30599 has 27 MA's), (181, 30491), (184, 30482), (199, 30428), (228, 30347), (243, 30281), (252, 30251), (259, 30206), (272, 30155), (319, 29951), (323, 29942), (335, 29903), (339, 29891), (341, 29879), (342, 29876), (349, 29840), (352, 29831), (362, 29816), (373, 29780), (377, 29768), (380, 29756), (404, 29681), (424, 29621), (450, 29513), (453, 29504), (457, 29489), (459, 29483), (460, 29477), (515, 29255),

Gene: Guillaume_57 Start: 52620, Stop: 51208, Start Num: 147

Candidate Starts for Guillaume_57:

(26, 52968), (58, 52839), (Start: 89 @52749 has 3 MA's), (Start: 147 @52620 has 27 MA's), (160, 52575), (Start: 183 @52485 has 1 MA's), (184, 52482), (186, 52476), (192, 52455), (216, 52392), (247, 52284), (253, 52266), (272, 52179), (275, 52164), (287, 52122), (303, 52041), (320, 51993), (330, 51951), (336, 51933), (338, 51930), (343, 51903), (356, 51852), (365, 51816), (380, 51765), (400, 51681), (406, 51660), (457, 51504), (459, 51498), (462, 51486), (487, 51360), (518, 51246),

Gene: Hager_41 Start: 25422, Stop: 27329, Start Num: 22

Candidate Starts for Hager_41:

(4, 25248), (Start: 22 @25422 has 31 MA's), (27, 25485), (30, 25506), (45, 25560), (104, 25722), (Start: 113 @25737 has 1 MA's), (130, 25782), (177, 25956), (181, 25965), (210, 26055), (211, 26058), (221, 26097), (224, 26112), (227, 26130), (266, 26298), (284, 26391), (288, 26406), (290, 26433), (292, 26445), (300, 26478), (339, 26607), (371, 26724), (444, 26997), (451, 27036), (465, 27096), (483, 27186), (492, 27216), (504, 27258), (520, 27309),

Gene: Hail2Pitt_56 Start: 53096, Stop: 51684, Start Num: 147

Candidate Starts for Hail2Pitt_56:

(26, 53444), (58, 53315), (87, 53228), (Start: 89 @53225 has 3 MA's), (Start: 147 @53096 has 27 MA's), (160, 53051), (Start: 183 @52961 has 1 MA's), (184, 52958), (186, 52952), (192, 52931), (216, 52868), (247, 52760), (253, 52742), (272, 52655), (275, 52640), (287, 52598), (303, 52517), (320, 52469), (330, 52427), (336, 52409), (338, 52406), (343, 52379), (356, 52328), (365, 52292), (380, 52241), (400, 52157), (406, 52136), (457, 51980), (459, 51974), (462, 51962), (487, 51836), (518, 51722),

Gene: HairyMan_38 Start: 29994, Stop: 28738, Start Num: 181

Candidate Starts for HairyMan_38:

(122, 30183), (Start: 136 @30141 has 4 MA's), (Start: 138 @30138 has 140 MA's), (Start: 141 @30132 has 21 MA's), (181, 29994), (Start: 183 @29988 has 1 MA's), (184, 29985), (200, 29928), (229, 29844), (252, 29754), (272, 29658), (279, 29625), (280, 29616), (298, 29523), (323, 29445), (328, 29424), (339, 29397), (373, 29286), (402, 29193), (405, 29187), (438, 29088), (449, 29025), (450, 29019), (457, 28995), (459, 28989), (460, 28983), (464, 28971), (481, 28875), (497, 28821),

Gene: Hamlet_40 Start: 31266, Stop: 29875, Start Num: 138

Candidate Starts for Hamlet_40:

(83, 31368), (85, 31365), (87, 31362), (Start: 138 @31266 has 140 MA's), (181, 31119), (Start: 183 @31113 has 1 MA's), (184, 31110), (221, 30996), (229, 30969), (243, 30909), (251, 30882), (252, 30879), (272, 30783), (280, 30741), (323, 30570), (328, 30549), (339, 30522), (373, 30414), (404, 30318), (440, 30201), (443, 30183), (459, 30117), (460, 30111), (464, 30099), (481, 30003), (497, 29949), (498, 29946), (504, 29922), (513, 29892),

Gene: HanSolo_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for HanSolo_40:

(2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: HankSprout_41 Start: 30683, Stop: 29295, Start Num: 138

Candidate Starts for HankSprout_41:

(52, 30905), (Start: 138 @30683 has 140 MA's), (181, 30539), (Start: 183 @30533 has 1 MA's), (184, 30530), (221, 30416), (229, 30389), (243, 30329), (251, 30302), (252, 30299), (272, 30203), (280, 30161), (302, 30050), (323, 29990), (328, 29969), (335, 29954), (348, 29894), (373, 29834), (404,

29738), (424, 29675), (440, 29621), (459, 29537), (460, 29531), (464, 29519), (481, 29423), (497, 29369), (498, 29366), (504, 29342),

Gene: Harambe_57 Start: 52887, Stop: 51475, Start Num: 147

Candidate Starts for Harambe_57:

(26, 53235), (58, 53106), (87, 53019), (Start: 89 @53016 has 3 MA's), (Start: 147 @52887 has 27 MA's), (160, 52842), (Start: 183 @52752 has 1 MA's), (184, 52749), (186, 52743), (192, 52722), (216, 52659), (247, 52551), (253, 52533), (272, 52446), (275, 52431), (287, 52389), (303, 52308), (320, 52260), (330, 52218), (336, 52200), (338, 52197), (343, 52170), (356, 52119), (365, 52083), (380, 52032), (400, 51948), (406, 51927), (457, 51771), (459, 51765), (462, 51753), (487, 51627), (518, 51513),

Gene: Hasitha_40 Start: 29084, Stop: 27657, Start Num: 138

Candidate Starts for Hasitha_40:

(Start: 138 @29084 has 140 MA's), (146, 29054), (Start: 147 @29048 has 27 MA's), (Start: 183 @28934 has 1 MA's), (184, 28931), (251, 28694), (252, 28691), (303, 28436), (321, 28385), (323, 28379), (339, 28331), (344, 28298), (348, 28283), (365, 28211), (373, 28184), (376, 28175), (391, 28130), (393, 28124), (401, 28097), (424, 28025), (443, 27953), (450, 27917), (453, 27908), (457, 27893), (459, 27887), (464, 27869), (472, 27827), (484, 27764), (502, 27701), (504, 27692),

Gene: Haunter_40 Start: 25327, Stop: 27234, Start Num: 22

Candidate Starts for Haunter_40:

(Start: 22 @25327 has 31 MA's), (27, 25390), (30, 25411), (45, 25465), (59, 25507), (Start: 113 @25642 has 1 MA's), (130, 25687), (177, 25861), (181, 25870), (210, 25960), (224, 26017), (266, 26203), (290, 26338), (292, 26350), (300, 26383), (312, 26428), (339, 26512), (371, 26629), (444, 26902), (450, 26938), (451, 26941), (465, 27001), (483, 27091), (492, 27121), (504, 27163), (520, 27214),

Gene: HayZem_62 Start: 52710, Stop: 51079, Start Num: 49

Candidate Starts for HayZem_62:

(Start: 49 @52710 has 3 MA's), (55, 52698), (74, 52647), (75, 52641), (103, 52584), (160, 52443), (170, 52401), (174, 52389), (Start: 183 @52353 has 1 MA's), (184, 52350), (192, 52323), (201, 52287), (209, 52275), (216, 52260), (247, 52152), (272, 52047), (275, 52032), (303, 51909), (320, 51861), (325, 51837), (330, 51819), (343, 51771), (356, 51720), (365, 51684), (371, 51666), (400, 51549), (420, 51498), (440, 51456), (451, 51396), (462, 51354), (473, 51303), (477, 51279), (518, 51117), (525, 51096),

Gene: Hello_57 Start: 52849, Stop: 51437, Start Num: 147

Candidate Starts for Hello_57:

(26, 53197), (58, 53068), (87, 52981), (Start: 89 @52978 has 3 MA's), (Start: 147 @52849 has 27 MA's), (160, 52804), (Start: 183 @52714 has 1 MA's), (184, 52711), (186, 52705), (192, 52684), (216, 52621), (247, 52513), (253, 52495), (272, 52408), (275, 52393), (287, 52351), (303, 52270), (320, 52222), (330, 52180), (336, 52162), (338, 52159), (343, 52132), (356, 52081), (365, 52045), (380, 51994), (400, 51910), (406, 51889), (457, 51733), (459, 51727), (462, 51715), (487, 51589), (518, 51475),

Gene: Hendrix_115 Start: 71918, Stop: 73936, Start Num: 7

Candidate Starts for Hendrix_115:

(5, 71888), (Start: 7 @71918 has 4 MA's), (35, 72131), (Start: 40 @72152 has 2 MA's), (51, 72185), (61, 72218), (80, 72272), (Start: 108 @72323 has 25 MA's), (121, 72353), (139, 72404), (163, 72506), (168, 72521), (223, 72707), (234, 72749), (235, 72752), (240, 72773), (247, 72797), (252, 72821), (254, 72827), (258, 72866), (267, 72899), (272, 72932), (278, 72962), (295, 73058), (299, 73073), (301, 73085), (308, 73112), (311, 73124), (318, 73142), (335, 73196), (344, 73241), (347, 73253),

(348, 73256), (371, 73325), (397, 73403), (414, 73457), (438, 73529), (443, 73571), (448, 73598), (452, 73616), (458, 73637), (463, 73661), (486, 73775), (504, 73847), (519, 73895), (521, 73898),

Gene: HerculesXL_40 Start: 29477, Stop: 28092, Start Num: 138

Candidate Starts for HerculesXL_40:

(Start: 138 @29477 has 140 MA's), (201, 29264), (221, 29201), (228, 29180), (251, 29087), (252, 29084), (255, 29063), (258, 29042), (280, 28946), (323, 28775), (329, 28751), (335, 28739), (339, 28727), (341, 28715), (342, 28712), (344, 28694), (348, 28679), (373, 28619), (377, 28607), (380, 28595), (404, 28523), (414, 28493), (424, 28460), (450, 28352), (453, 28343), (457, 28328), (459, 28322), (460, 28316), (464, 28304), (481, 28208), (484, 28199), (492, 28169), (504, 28127),

Gene: Hexbug_60 Start: 41082, Stop: 39607, Start Num: 112

Candidate Starts for Hexbug_60:

(Start: 112 @41082 has 12 MA's), (128, 41040), (144, 40992), (Start: 149 @40965 has 1 MA's), (168, 40890), (170, 40881), (172, 40875), (201, 40791), (209, 40773), (212, 40764), (214, 40758), (252, 40635), (261, 40581), (263, 40575), (266, 40569), (279, 40506), (281, 40491), (285, 40476), (335, 40278), (343, 40245), (352, 40206), (369, 40161), (390, 40098), (394, 40086), (400, 40065), (403, 40050), (414, 40017), (415, 40014), (428, 39969), (441, 39912), (453, 39858), (465, 39807), (490, 39696), (495, 39675),

Gene: Hiddenleaf_40 Start: 25169, Stop: 27076, Start Num: 22

Candidate Starts for Hiddenleaf_40:

(4, 24995), (Start: 22 @25169 has 31 MA's), (27, 25232), (30, 25253), (45, 25307), (93, 25442), (Start: 113 @25484 has 1 MA's), (130, 25529), (177, 25703), (181, 25712), (210, 25802), (221, 25844), (224, 25859), (266, 26045), (290, 26180), (292, 26192), (300, 26225), (339, 26354), (371, 26471), (444, 26744), (451, 26783), (465, 26843), (483, 26933), (492, 26963), (504, 27005), (520, 27056),

Gene: HippoPololi_50 Start: 37814, Stop: 36324, Start Num: 111

Candidate Starts for HippoPololi_50:

(Start: 111 @37814 has 6 MA's), (128, 37772), (142, 37730), (144, 37724), (Start: 149 @37697 has 1 MA's), (161, 37643), (172, 37607), (Start: 183 @37580 has 1 MA's), (211, 37499), (212, 37496), (214, 37490), (219, 37469), (236, 37403), (252, 37367), (256, 37343), (261, 37313), (263, 37307), (266, 37301), (281, 37223), (313, 37082), (337, 37004), (344, 36965), (348, 36950), (362, 36914), (369, 36893), (370, 36890), (374, 36875), (382, 36848), (394, 36803), (414, 36734), (427, 36689), (428, 36686), (440, 36644), (441, 36629), (450, 36584), (451, 36581), (453, 36575), (465, 36524), (472, 36494), (491, 36404), (501, 36371), (511, 36335),

Gene: Hollow_57 Start: 53503, Stop: 51797, Start Num: 36

Candidate Starts for Hollow_57:

(Start: 36 @53503 has 6 MA's), (Start: 40 @53491 has 2 MA's), (73, 53392), (Start: 78 @53371 has 1 MA's), (Start: 114 @53305 has 2 MA's), (150, 53206), (160, 53170), (165, 53146), (168, 53137), (170, 53128), (Start: 183 @53080 has 1 MA's), (190, 53056), (201, 53014), (210, 52999), (216, 52984), (231, 52927), (232, 52924), (251, 52864), (252, 52861), (266, 52795), (267, 52792), (275, 52756), (276, 52753), (282, 52735), (284, 52726), (287, 52714), (294, 52666), (303, 52633), (309, 52609), (320, 52585), (325, 52561), (343, 52495), (365, 52396), (399, 52264), (400, 52261), (444, 52144), (445, 52141), (457, 52084), (462, 52066), (483, 51949), (484, 51946), (488, 51934), (518, 51835), (525, 51814),

Gene: Horseradish_55 Start: 38581, Stop: 37103, Start Num: 109

Candidate Starts for Horseradish_55:

(Start: 109 @38581 has 35 MA's), (142, 38494), (144, 38488), (155, 38437), (168, 38386), (172, 38371), (201, 38287), (211, 38263), (214, 38254), (252, 38131), (261, 38077), (263, 38071), (266, 38065), (272, 38035), (281, 37987), (304, 37873), (313, 37846), (323, 37822), (343, 37741), (347,

37717), (354, 37696), (369, 37657), (374, 37639), (376, 37633), (413, 37522), (415, 37516), (427, 37474), (433, 37456), (450, 37369), (453, 37360), (459, 37339), (465, 37309), (472, 37279), (478, 37246), (492, 37186), (501, 37156),

Gene: Hotorobo_59 Start: 52337, Stop: 50805, Start Num: 108

Candidate Starts for Hotorobo_59:

(26, 52592), (34, 52541), (47, 52490), (66, 52436), (76, 52406), (Start: 89 @52373 has 3 MA's), (97, 52364), (Start: 108 @52337 has 25 MA's), (160, 52169), (170, 52127), (Start: 183 @52079 has 1 MA's), (187, 52067), (190, 52055), (192, 52049), (197, 52028), (209, 52001), (253, 51860), (272, 51773), (275, 51758), (280, 51746), (287, 51716), (295, 51665), (302, 51638), (320, 51587), (336, 51527), (338, 51524), (343, 51497), (353, 51455), (365, 51410), (400, 51275), (403, 51260), (409, 51239), (444, 51158), (445, 51155), (457, 51098), (459, 51092), (460, 51086), (462, 51080), (477, 51005), (483, 50966), (487, 50954), (488, 50951), (515, 50858), (518, 50843), (525, 50822),

Gene: HungryHenry_40 Start: 30808, Stop: 29420, Start Num: 138

Candidate Starts for HungryHenry_40:

(2, 31459), (31, 31105), (52, 31030), (Start: 138 @30808 has 140 MA's), (181, 30664), (Start: 183 @30658 has 1 MA's), (184, 30655), (221, 30541), (229, 30514), (243, 30454), (251, 30427), (252, 30424), (272, 30328), (280, 30286), (323, 30115), (328, 30094), (335, 30079), (348, 30019), (373, 29959), (404, 29863), (424, 29800), (440, 29746), (459, 29662), (460, 29656), (464, 29644), (481, 29548), (497, 29494), (498, 29491), (504, 29467),

Gene: Huwbert_59 Start: 36808, Stop: 38358, Start Num: 107

Candidate Starts for Huwbert_59:

(Start: 105 @36805 has 1 MA's), (Start: 107 @36808 has 1 MA's), (134, 36874), (144, 36904), (150, 36934), (160, 36973), (166, 37000), (170, 37015), (190, 37069), (198, 37099), (224, 37183), (242, 37267), (244, 37276), (245, 37279), (272, 37399), (275, 37414), (289, 37501), (303, 37567), (309, 37591), (344, 37714), (347, 37726), (379, 37813), (407, 37912), (413, 37930), (446, 38068), (501, 38296), (503, 38305), (504, 38308),

Gene: Ilzat_40 Start: 30819, Stop: 29431, Start Num: 138

Candidate Starts for Ilzat_40:

(2, 31470), (31, 31116), (52, 31041), (Start: 138 @30819 has 140 MA's), (181, 30675), (Start: 183 @30669 has 1 MA's), (184, 30666), (221, 30552), (229, 30525), (243, 30465), (251, 30438), (252, 30435), (272, 30339), (280, 30297), (323, 30126), (328, 30105), (335, 30090), (348, 30030), (373, 29970), (404, 29874), (424, 29811), (440, 29757), (459, 29673), (460, 29667), (464, 29655), (481, 29559), (497, 29505), (498, 29502), (504, 29478),

Gene: Inventa_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Inventa_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: loannes_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for loannes_41:

(52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (271, 30641), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (335, 30389), (339, 30377), (348, 30329), (373, 30269), (404, 30173), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (478, 29879), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: Ixel_41 Start: 29711, Stop: 28434, Start Num: 167

Candidate Starts for Ixel_41:

(Start: 138 @29819 has 140 MA's), (Start: 167 @29711 has 1 MA's), (181, 29675), (184, 29666), (221, 29543), (228, 29522), (251, 29429), (252, 29426), (258, 29384), (270, 29336), (272, 29330), (280, 29288), (305, 29165), (323, 29117), (328, 29096), (339, 29069), (341, 29057), (342, 29054), (344, 29036), (373, 28961), (377, 28949), (404, 28865), (417, 28820), (443, 28730), (450, 28694), (453, 28685), (457, 28670), (459, 28664), (460, 28658), (464, 28646), (481, 28550), (492, 28511),

Gene: JDawG_39 Start: 25586, Stop: 27493, Start Num: 22

Candidate Starts for JDawG_39:

(4, 25412), (Start: 22 @25586 has 31 MA's), (27, 25649), (30, 25670), (45, 25724), (93, 25859), (Start: 113 @25901 has 1 MA's), (130, 25946), (177, 26120), (181, 26129), (210, 26219), (221, 26261), (224, 26276), (266, 26462), (290, 26597), (292, 26609), (300, 26642), (326, 26735), (339, 26771), (362, 26861), (371, 26888), (450, 27197), (451, 27200), (465, 27260), (483, 27350), (492, 27380), (504, 27422), (520, 27473),

Gene: JacoRen57_46 Start: 39673, Stop: 38201, Start Num: 114

Candidate Starts for JacoRen57_46:

(Start: 106 @39685 has 1 MA's), (Start: 114 @39673 has 2 MA's), (143, 39586), (144, 39583), (163, 39496), (168, 39481), (170, 39472), (211, 39358), (261, 39172), (266, 39160), (281, 39082), (331, 38881), (344, 38821), (347, 38809), (348, 38806), (427, 38566), (433, 38548), (444, 38494), (453, 38452), (459, 38431), (465, 38401), (469, 38386), (490, 38290), (492, 38278), (509, 38218),

Gene: Jams_57 Start: 52059, Stop: 50647, Start Num: 147

Candidate Starts for Jams_57:

(26, 52407), (58, 52278), (Start: 89 @52188 has 3 MA's), (Start: 147 @52059 has 27 MA's), (160, 52014), (Start: 183 @51924 has 1 MA's), (184, 51921), (186, 51915), (192, 51894), (216, 51831), (237, 51753), (247, 51723), (253, 51705), (272, 51618), (275, 51603), (287, 51561), (303, 51480), (320, 51432), (330, 51390), (336, 51372), (338, 51369), (343, 51342), (356, 51291), (365, 51255), (380, 51204), (400, 51120), (406, 51099), (457, 50943), (459, 50937), (462, 50925), (487, 50799), (518, 50685),

Gene: Jamzy_58 Start: 39427, Stop: 37952, Start Num: 112

Candidate Starts for Jamzy_58:

(Start: 112 @39427 has 12 MA's), (144, 39337), (Start: 149 @39310 has 1 MA's), (161, 39256), (168, 39235), (170, 39226), (172, 39220), (201, 39136), (204, 39127), (212, 39109), (214, 39103), (252, 38980), (261, 38926), (263, 38920), (266, 38914), (275, 38869), (281, 38836), (335, 38623), (343, 38590), (352, 38551), (369, 38506), (374, 38488), (376, 38482), (392, 38437), (394, 38431), (400, 38410), (414, 38362), (415, 38359), (427, 38317), (428, 38314), (433, 38299), (453, 38203), (465, 38152), (478, 38089), (495, 38020), (510, 37966),

Gene: Janus167_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Janus167_40:

(52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (339, 30062), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: JasonD_45 Start: 31699, Stop: 30293, Start Num: 138

Candidate Starts for JasonD_45:

(57, 31888), (96, 31798), (98, 31795), (Start: 138 @31699 has 140 MA's), (181, 31552), (Start: 183 @31546 has 1 MA's), (201, 31483), (221, 31429), (229, 31402), (243, 31342), (251, 31315), (252, 31312), (272, 31216), (280, 31174), (319, 31012), (323, 31003), (328, 30982), (332, 30976), (335, 30967), (349, 30904), (362, 30883), (373, 30847), (380, 30823), (405, 30748), (417, 30706), (459, 30550), (460, 30544), (464, 30532), (481, 30436), (490, 30409), (497, 30382),

Gene: JasperRussell_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for JasperRussell_40:

(31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Jellybones_61 Start: 53432, Stop: 51900, Start Num: 108

Candidate Starts for Jellybones_61:

(26, 53687), (34, 53636), (58, 53558), (66, 53531), (76, 53501), (Start: 89 @53468 has 3 MA's), (97, 53459), (Start: 108 @53432 has 25 MA's), (150, 53300), (160, 53264), (170, 53222), (176, 53204), (Start: 183 @53174 has 1 MA's), (187, 53162), (192, 53144), (209, 53096), (272, 52868), (275, 52853), (280, 52841), (287, 52811), (295, 52760), (320, 52682), (325, 52658), (330, 52640), (336, 52622), (338, 52619), (340, 52610), (343, 52592), (353, 52550), (365, 52505), (371, 52487), (400, 52370), (403, 52355), (409, 52334), (440, 52277), (444, 52253), (445, 52250), (457, 52193), (459, 52187), (462, 52175), (473, 52124), (477, 52100), (483, 52061), (487, 52049), (488, 52046), (515, 51953), (518, 51938), (525, 51917),

Gene: Jemerald_42 Start: 31717, Stop: 30299, Start Num: 138

Candidate Starts for Jemerald_42:

(Start: 138 @31717 has 140 MA's), (Start: 141 @31711 has 21 MA's), (181, 31573), (199, 31510), (221, 31450), (228, 31429), (249, 31342), (251, 31336), (252, 31333), (255, 31312), (266, 31267), (270, 31243), (272, 31237), (280, 31195), (309, 31057), (323, 31024), (329, 31000), (348, 30928), (357, 30901), (365, 30853), (373, 30826), (401, 30739), (404, 30730), (437, 30631), (450, 30559), (453, 30550), (457, 30535), (459, 30529), (481, 30415), (492, 30376), (494, 30370), (504, 30334), (505, 30331),

Gene: Jenos_44 Start: 32344, Stop: 30941, Start Num: 140

Candidate Starts for Jenos_44:

(37, 32587), (41, 32578), (57, 32527), (63, 32506), (96, 32437), (Start: 140 @32344 has 10 MA's), (181, 32200), (Start: 183 @32194 has 1 MA's), (201, 32131), (221, 32077), (229, 32050), (243, 31990), (251, 31963), (252, 31960), (272, 31864), (280, 31822), (319, 31660), (323, 31651), (328, 31630), (339, 31603), (349, 31552), (373, 31495), (391, 31441), (404, 31399), (417, 31354), (452, 31222), (459, 31198), (460, 31192), (464, 31180), (481, 31084), (490, 31057), (497, 31030), (514, 30973),

Gene: Jerbirus_42 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Jerbirus_42:

(2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: JeriBeth_42 Start: 30666, Stop: 29278, Start Num: 138

Candidate Starts for JeriBeth_42:

(52, 30888), (Start: 138 @30666 has 140 MA's), (181, 30522), (Start: 183 @30516 has 1 MA's), (184, 30513), (221, 30399), (229, 30372), (243, 30312), (251, 30285), (252, 30282), (272, 30186), (280, 30144), (323, 29973), (328, 29952), (335, 29937), (348, 29877), (373, 29817), (404, 29721), (424, 29658), (440, 29604), (459, 29520), (460, 29514), (464, 29502), (481, 29406), (497, 29352), (498, 29349), (504, 29325),

Gene: JingleBells_40 Start: 25290, Stop: 27197, Start Num: 22

Candidate Starts for JingleBells_40:

(4, 25116), (Start: 22 @25290 has 31 MA's), (27, 25353), (30, 25374), (45, 25428), (65, 25491), (93, 25563), (Start: 113 @25605 has 1 MA's), (130, 25650), (177, 25824), (181, 25833), (210, 25923), (221, 25965), (224, 25980), (266, 26166), (290, 26301), (292, 26313), (300, 26346), (339, 26475), (371, 26592), (450, 26901), (451, 26904), (465, 26964), (483, 27054), (492, 27084), (504, 27126), (520, 27177),

Gene: Jingles_39 Start: 30570, Stop: 29173, Start Num: 135

Candidate Starts for Jingles_39:

(75, 30717), (95, 30672), (Start: 108 @30642 has 25 MA's), (Start: 135 @30570 has 2 MA's), (Start: 140 @30558 has 10 MA's), (Start: 141 @30552 has 21 MA's), (Start: 147 @30522 has 27 MA's), (181, 30414), (Start: 183 @30408 has 1 MA's), (184, 30405), (189, 30390), (241, 30213), (243, 30204), (246, 30195), (252, 30174), (258, 30132), (272, 30078), (323, 29865), (328, 29844), (335, 29829), (339, 29817), (342, 29802), (349, 29766), (352, 29757), (362, 29742), (373, 29706), (404, 29607), (424, 29544), (433, 29517), (449, 29442), (450, 29436), (453, 29427), (457, 29412), (459, 29406), (460, 29400), (464, 29388), (490, 29265), (492, 29253),

Gene: John316_62 Start: 53495, Stop: 51963, Start Num: 108

Candidate Starts for John316_62:

(26, 53750), (34, 53699), (47, 53648), (66, 53594), (76, 53564), (Start: 89 @53531 has 3 MA's), (97, 53522), (Start: 108 @53495 has 25 MA's), (160, 53327), (170, 53285), (Start: 183 @53237 has 1 MA's), (187, 53225), (190, 53213), (192, 53207), (197, 53186), (209, 53159), (272, 52931), (275, 52916), (280, 52904), (287, 52874), (295, 52823), (302, 52796), (320, 52745), (330, 52703), (336, 52685), (338, 52682), (343, 52655), (353, 52613), (365, 52568), (400, 52433), (403, 52418), (409, 52397), (444, 52316), (445, 52313), (457, 52256), (459, 52250), (460, 52244), (462, 52238), (477, 52163), (483, 52124), (487, 52112), (488, 52109), (515, 52016), (518, 52001), (525, 51980),

Gene: Jormungandr_57 Start: 52602, Stop: 51190, Start Num: 147

Candidate Starts for Jormungandr_57:

(26, 52950), (58, 52821), (Start: 89 @52731 has 3 MA's), (Start: 147 @52602 has 27 MA's), (160, 52557), (Start: 183 @52467 has 1 MA's), (184, 52464), (186, 52458), (192, 52437), (216, 52374), (247, 52266), (253, 52248), (272, 52161), (275, 52146), (287, 52104), (303, 52023), (320, 51975), (330, 51933), (336, 51915), (338, 51912), (343, 51885), (356, 51834), (365, 51798), (380, 51747), (400, 51663), (406, 51642), (457, 51486), (459, 51480), (462, 51468), (487, 51342), (518, 51228),

Gene: Juanyo_39 Start: 30553, Stop: 29183, Start Num: 141

Candidate Starts for Juanyo_39:

(Start: 140 @30556 has 10 MA's), (Start: 141 @30553 has 21 MA's), (Start: 167 @30451 has 1 MA's), (221, 30292), (229, 30265), (243, 30205), (251, 30178), (252, 30175), (268, 30094), (272, 30079), (303, 29923), (323, 29866), (328, 29845), (332, 29839), (335, 29830), (341, 29806), (344, 29785), (348, 29770), (358, 29746), (373, 29710), (391, 29656), (424, 29551), (429, 29539), (438, 29512), (443, 29479), (450, 29443), (453, 29434), (457, 29419), (459, 29413), (460, 29407), (464, 29395), (481, 29299), (484, 29290), (490, 29272), (492, 29260), (504, 29218), (512, 29191),

Gene: Juicer_42 Start: 31717, Stop: 30299, Start Num: 138

Candidate Starts for Juicer_42:

(Start: 138 @31717 has 140 MA's), (Start: 141 @31711 has 21 MA's), (181, 31573), (199, 31510), (221, 31450), (228, 31429), (249, 31342), (251, 31336), (252, 31333), (255, 31312), (266, 31267), (270, 31243), (272, 31237), (280, 31195), (309, 31057), (323, 31024), (329, 31000), (348, 30928), (357, 30901), (365, 30853), (373, 30826), (401, 30739), (404, 30730), (437, 30631), (450, 30559), (453, 30550), (457, 30535), (459, 30529), (481, 30415), (492, 30376), (494, 30370), (504, 30334), (505, 30331),

Gene: Jumbo_57 Start: 53259, Stop: 51742, Start Num: 126

Candidate Starts for Jumbo_57:

(Start: 126 @53259 has 3 MA's), (153, 53163), (156, 53151), (160, 53136), (199, 53004), (210, 52980), (211, 52977), (220, 52944), (252, 52839), (255, 52818), (271, 52746), (286, 52689), (307, 52587), (320, 52557), (339, 52488), (364, 52395), (369, 52380), (379, 52344), (384, 52311), (392, 52281), (398, 52260), (409, 52218), (411, 52206), (438, 52131), (462, 52014), (469, 51981), (477, 51939), (490, 51873), (523, 51774), (524, 51771),

Gene: Kale_40 Start: 30818, Stop: 29430, Start Num: 138

Candidate Starts for Kale_40:

(52, 31040), (Start: 138 @30818 has 140 MA's), (181, 30674), (Start: 183 @30668 has 1 MA's), (184, 30665), (221, 30551), (229, 30524), (243, 30464), (251, 30437), (252, 30434), (272, 30338), (280, 30296), (323, 30125), (328, 30104), (335, 30089), (348, 30029), (373, 29969), (404, 29873), (424, 29810), (440, 29756), (459, 29672), (460, 29666), (464, 29654), (478, 29579), (481, 29558), (497, 29504), (498, 29501), (504, 29477),

Gene: Kampe_58 Start: 50421, Stop: 48931, Start Num: 124

Candidate Starts for Kampe_58:

(Start: 124 @50421 has 5 MA's), (150, 50328), (153, 50319), (156, 50307), (160, 50292), (165, 50274), (184, 50217), (204, 50145), (205, 50142), (230, 50049), (239, 50016), (251, 49983), (252, 49980), (255, 49959), (272, 49890), (282, 49854), (299, 49767), (320, 49704), (322, 49701), (327, 49671), (345, 49599), (347, 49590), (384, 49467), (386, 49461), (438, 49329), (445, 49287), (454, 49242), (462, 49212), (523, 48960),

Gene: KannH_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for KannH_40:

(2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Karate_39 Start: 25940, Stop: 27847, Start Num: 22

Candidate Starts for Karate_39:

(4, 25766), (Start: 22 @25940 has 31 MA's), (27, 26003), (30, 26024), (45, 26078), (104, 26240), (Start: 113 @26255 has 1 MA's), (130, 26300), (177, 26474), (181, 26483), (210, 26573), (211, 26576), (224, 26630), (266, 26816), (290, 26951), (292, 26963), (339, 27125), (371, 27242), (451, 27554), (465, 27614), (483, 27704), (492, 27734), (504, 27776), (520, 27827),

Gene: Kaseim_57 Start: 52137, Stop: 50632, Start Num: 106

Candidate Starts for Kaseim_57:

(26, 52392), (58, 52263), (Start: 89 @52173 has 3 MA's), (Start: 106 @52137 has 1 MA's), (Start: 147 @52044 has 27 MA's), (160, 51999), (Start: 183 @51909 has 1 MA's), (184, 51906), (186, 51900), (192, 51879), (216, 51816), (247, 51708), (253, 51690), (272, 51603), (275, 51588), (287, 51546), (303, 51465), (320, 51417), (330, 51375), (336, 51357), (338, 51354), (343, 51327), (356, 51276), (365, 51240), (380, 51189), (400, 51105), (406, 51084), (457, 50928), (459, 50922), (462, 50910),

(487, 50784), (518, 50670),

Gene: KatChan_42 Start: 30536, Stop: 29130, Start Num: 138

Candidate Starts for KatChan_42:

(Start: 138 @30536 has 140 MA's), (146, 30506), (182, 30389), (Start: 183 @30386 has 1 MA's), (184, 30383), (201, 30323), (210, 30302), (221, 30260), (229, 30233), (251, 30146), (252, 30143), (258, 30101), (270, 30050), (303, 29888), (323, 29831), (341, 29771), (343, 29762), (344, 29750), (362, 29711), (371, 29684), (372, 29681), (373, 29675), (401, 29588), (405, 29576), (450, 29408), (453, 29399), (457, 29384), (459, 29378), (460, 29372), (464, 29360), (490, 29237), (496, 29213), (504, 29183),

Gene: Kate_41 Start: 25943, Stop: 27850, Start Num: 22

Candidate Starts for Kate_41:

(Start: 22 @25943 has 31 MA's), (27, 26006), (30, 26027), (45, 26081), (Start: 113 @26258 has 1 MA's), (130, 26303), (177, 26477), (181, 26486), (210, 26576), (224, 26633), (266, 26819), (290, 26954), (292, 26966), (300, 26999), (339, 27128), (371, 27245), (393, 27320), (450, 27554), (451, 27557), (465, 27617), (483, 27707), (492, 27737), (504, 27779), (520, 27830),

Gene: Katyusha_57 Start: 53319, Stop: 51616, Start Num: 36

Candidate Starts for Katyusha_57:

(Start: 36 @53319 has 6 MA's), (Start: 40 @53307 has 2 MA's), (Start: 114 @53124 has 2 MA's), (Start: 147 @53034 has 27 MA's), (150, 53025), (160, 52989), (165, 52965), (168, 52956), (170, 52947), (Start: 183 @52899 has 1 MA's), (190, 52875), (216, 52803), (217, 52800), (220, 52782), (232, 52743), (266, 52614), (275, 52575), (276, 52572), (282, 52554), (284, 52545), (287, 52533), (294, 52485), (303, 52452), (320, 52404), (325, 52380), (343, 52314), (365, 52215), (389, 52116), (392, 52107), (399, 52083), (400, 52080), (440, 51987), (444, 51963), (445, 51960), (457, 51903), (462, 51885), (483, 51768), (484, 51765), (488, 51753), (518, 51654), (525, 51633),

Gene: Kauala_39 Start: 30568, Stop: 29171, Start Num: 135

Candidate Starts for Kauala_39:

(53, 30784), (75, 30715), (79, 30700), (Start: 108 @30640 has 25 MA's), (Start: 135 @30568 has 2 MA's), (Start: 140 @30556 has 10 MA's), (Start: 141 @30550 has 21 MA's), (Start: 147 @30520 has 27 MA's), (181, 30412), (Start: 183 @30406 has 1 MA's), (184, 30403), (189, 30388), (243, 30202), (252, 30172), (258, 30130), (272, 30076), (279, 30043), (323, 29863), (328, 29842), (335, 29827), (339, 29815), (341, 29803), (342, 29800), (349, 29764), (362, 29740), (368, 29722), (373, 29704), (424, 29542), (440, 29488), (449, 29440), (450, 29434), (453, 29425), (457, 29410), (459, 29404), (460, 29398), (464, 29386), (490, 29263), (492, 29251),

Gene: KayGee_58 Start: 40792, Stop: 39314, Start Num: 109

Candidate Starts for KayGee_58:

(Start: 109 @40792 has 35 MA's), (134, 40729), (142, 40708), (144, 40702), (Start: 149 @40675 has 1 MA's), (161, 40621), (172, 40585), (177, 40570), (211, 40474), (214, 40465), (219, 40444), (236, 40378), (252, 40342), (261, 40288), (263, 40282), (266, 40276), (281, 40198), (285, 40183), (304, 40084), (326, 40009), (335, 39985), (339, 39973), (343, 39952), (345, 39937), (347, 39928), (354, 39907), (369, 39868), (372, 39859), (376, 39844), (394, 39793), (415, 39721), (427, 39679), (428, 39676), (433, 39661), (453, 39565), (465, 39514), (472, 39484), (478, 39451), (491, 39394), (496, 39379),

Gene: KimJongPhill_74 Start: 51796, Stop: 53328, Start Num: 101

Candidate Starts for KimJongPhill_74:

(12, 51421), (28, 51580), (32, 51595), (68, 51715), (Start: 101 @51796 has 2 MA's), (142, 51910), (144, 51916), (153, 51958), (154, 51964), (155, 51967), (157, 51973), (162, 52000), (169, 52021), (184, 52063), (196, 52105), (202, 52126), (209, 52141), (211, 52147), (212, 52150), (213, 52153),

(250, 52294), (252, 52300), (261, 52354), (266, 52366), (270, 52390), (275, 52411), (281, 52444), (291, 52507), (293, 52516), (303, 52558), (337, 52675), (343, 52702), (344, 52714), (347, 52726), (348, 52729), (413, 52912), (420, 52942), (425, 52954), (427, 52960), (436, 52984), (451, 53068), (465, 53125), (470, 53143), (490, 53236), (493, 53251), (501, 53278),

Gene: KingJulien_40 Start: 31053, Stop: 29878, Start Num: 201

Candidate Starts for KingJulien_40:

(29, 31557), (35, 31536), (Start: 138 @31269 has 140 MA's), (181, 31122), (Start: 183 @31116 has 1 MA's), (184, 31113), (201, 31053), (221, 30999), (229, 30972), (243, 30912), (251, 30885), (252, 30882), (272, 30786), (280, 30744), (323, 30573), (328, 30552), (373, 30417), (404, 30321), (440, 30204), (443, 30186), (459, 30120), (460, 30114), (464, 30102), (481, 30006), (497, 29952), (498, 29949), (504, 29925), (513, 29895),

Gene: Klimt_41 Start: 30834, Stop: 29413, Start Num: 138

Candidate Starts for Klimt_41:

(52, 31056), (Start: 138 @30834 has 140 MA's), (181, 30690), (Start: 183 @30684 has 1 MA's), (184, 30681), (221, 30567), (229, 30540), (243, 30480), (251, 30453), (252, 30450), (272, 30354), (280, 30312), (319, 30150), (323, 30141), (328, 30120), (339, 30093), (344, 30060), (348, 30045), (368, 29970), (373, 29952), (404, 29856), (424, 29793), (440, 29739), (459, 29655), (460, 29649), (464, 29637), (478, 29562), (481, 29541), (497, 29487), (498, 29484), (504, 29460),

Gene: Knox_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for Knox_41:

(2, 31769), (31, 31415), (52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: Koji_39 Start: 30726, Stop: 29332, Start Num: 140

Candidate Starts for Koji_39:

(75, 30885), (95, 30840), (Start: 108 @30810 has 25 MA's), (131, 30756), (Start: 135 @30738 has 2 MA's), (Start: 140 @30726 has 10 MA's), (Start: 141 @30720 has 21 MA's), (Start: 147 @30690 has 27 MA's), (181, 30582), (Start: 183 @30576 has 1 MA's), (184, 30573), (189, 30558), (243, 30372), (246, 30363), (252, 30342), (258, 30300), (272, 30246), (323, 30033), (328, 30012), (335, 29997), (339, 29985), (342, 29970), (349, 29934), (362, 29910), (373, 29874), (375, 29868), (404, 29775), (424, 29712), (433, 29685), (449, 29610), (450, 29604), (453, 29595), (457, 29580), (459, 29574), (460, 29568), (464, 29556), (490, 29433), (492, 29421), (515, 29346),

Gene: Kors_43 Start: 26688, Stop: 28622, Start Num: 23

Candidate Starts for Kors_43:

(3, 26448), (Start: 8 @26592 has 1 MA's), (21, 26682), (Start: 23 @26688 has 3 MA's), (45, 26835), (50, 26853), (54, 26862), (Start: 113 @27012 has 1 MA's), (152, 27138), (177, 27228), (181, 27237), (203, 27312), (210, 27327), (221, 27369), (226, 27399), (256, 27531), (292, 27717), (296, 27735), (300, 27750), (317, 27807), (335, 27867), (352, 27939), (388, 28077), (407, 28143), (414, 28173), (439, 28251), (451, 28329), (465, 28389), (483, 28479), (490, 28497), (522, 28605),

Gene: Krampus_40 Start: 25943, Stop: 27850, Start Num: 22

Candidate Starts for Krampus_40:

(4, 25769), (Start: 22 @25943 has 31 MA's), (27, 26006), (30, 26027), (45, 26081), (104, 26243), (Start: 113 @26258 has 1 MA's), (130, 26303), (177, 26477), (181, 26486), (210, 26576), (221, 26618), (224, 26633), (266, 26819), (290, 26954), (292, 26966), (300, 26999), (339, 27128), (371, 27245), (393, 27320), (450, 27554), (451, 27557), (465, 27617), (483, 27707), (492, 27737), (504, 27779),

(520, 27830),

Gene: Kurt1_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Kurt1_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Kvothe_56 Start: 53206, Stop: 51515, Start Num: 40

Candidate Starts for Kvothe_56:

(Start: 36 @53218 has 6 MA's), (Start: 40 @53206 has 2 MA's), (Start: 114 @53023 has 2 MA's), (Start: 147 @52933 has 27 MA's), (150, 52924), (160, 52888), (165, 52864), (168, 52855), (170, 52846), (Start: 183 @52798 has 1 MA's), (190, 52774), (216, 52702), (220, 52681), (231, 52645), (232, 52642), (266, 52513), (267, 52510), (275, 52474), (276, 52471), (282, 52453), (284, 52444), (287, 52432), (294, 52384), (303, 52351), (320, 52303), (325, 52279), (343, 52213), (365, 52114), (389, 52015), (392, 52006), (399, 51982), (400, 51979), (440, 51886), (444, 51862), (445, 51859), (457, 51802), (462, 51784), (483, 51667), (484, 51664), (488, 51652), (518, 51553), (525, 51532),

Gene: Lahirium_57 Start: 53124, Stop: 51712, Start Num: 147

Candidate Starts for Lahirium_57:

(26, 53472), (58, 53343), (Start: 89 @53253 has 3 MA's), (Start: 147 @53124 has 27 MA's), (160, 53079), (Start: 183 @52989 has 1 MA's), (184, 52986), (186, 52980), (192, 52959), (216, 52896), (247, 52788), (253, 52770), (272, 52683), (275, 52668), (287, 52626), (303, 52545), (320, 52497), (330, 52455), (336, 52437), (338, 52434), (343, 52407), (356, 52356), (365, 52320), (380, 52269), (400, 52185), (406, 52164), (457, 52008), (459, 52002), (462, 51990), (487, 51864), (518, 51750),

Gene: Lauer_52 Start: 41675, Stop: 40197, Start Num: 109

Candidate Starts for Lauer_52:

(Start: 109 @41675 has 35 MA's), (134, 41612), (144, 41585), (Start: 149 @41558 has 1 MA's), (161, 41504), (168, 41483), (177, 41453), (214, 41348), (219, 41327), (236, 41261), (252, 41225), (261, 41171), (263, 41165), (266, 41159), (281, 41081), (285, 41066), (304, 40967), (326, 40892), (335, 40868), (339, 40856), (343, 40835), (345, 40820), (347, 40811), (354, 40790), (369, 40751), (372, 40742), (394, 40676), (415, 40604), (427, 40562), (428, 40559), (433, 40544), (453, 40448), (465, 40397), (472, 40367), (478, 40334), (491, 40277), (496, 40262),

Gene: Leaf_117 Start: 70672, Stop: 72663, Start Num: 7

Candidate Starts for Leaf_117:

(Start: 7 @70672 has 4 MA's), (12, 70705), (38, 70900), (Start: 40 @70906 has 2 MA's), (42, 70909), (51, 70939), (59, 70960), (61, 70972), (80, 71026), (99, 71053), (102, 71062), (132, 71116), (Start: 141 @71134 has 21 MA's), (142, 71137), (154, 71188), (164, 71230), (195, 71332), (240, 71494), (247, 71518), (252, 71542), (253, 71545), (258, 71587), (265, 71608), (269, 71632), (272, 71653), (277, 71674), (278, 71683), (295, 71779), (296, 71782), (299, 71794), (301, 71806), (308, 71833), (309, 71842), (311, 71845), (318, 71863), (335, 71917), (344, 71962), (355, 71998), (371, 72046), (397, 72124), (408, 72160), (410, 72175), (414, 72178), (438, 72250), (443, 72292), (452, 72337), (458, 72358), (461, 72370), (463, 72382), (474, 72436), (486, 72496), (491, 72523), (504, 72568), (526, 72646),

Gene: Leafus_40 Start: 31402, Stop: 30011, Start Num: 138

Candidate Starts for Leafus_40:

(86, 31516), (129, 31432), (Start: 138 @31402 has 140 MA's), (181, 31255), (Start: 183 @31249 has 1 MA's), (184, 31246), (221, 31132), (229, 31105), (243, 31045), (251, 31018), (252, 31015), (272,

30919), (280, 30877), (323, 30706), (328, 30685), (339, 30658), (373, 30550), (404, 30454), (440, 30337), (443, 30319), (459, 30253), (460, 30247), (464, 30235), (481, 30139), (497, 30085), (498, 30082), (504, 30058), (513, 30028),

Gene: Librie_40 Start: 29071, Stop: 27644, Start Num: 138

Candidate Starts for Librie_40:

(Start: 138 @29071 has 140 MA's), (146, 29041), (Start: 147 @29035 has 27 MA's), (Start: 183 @28921 has 1 MA's), (184, 28918), (251, 28681), (252, 28678), (303, 28423), (321, 28372), (323, 28366), (339, 28318), (344, 28285), (348, 28270), (365, 28198), (373, 28171), (376, 28162), (391, 28117), (393, 28111), (401, 28084), (424, 28012), (443, 27940), (450, 27904), (453, 27895), (457, 27880), (459, 27874), (464, 27856), (472, 27814), (484, 27751), (502, 27688), (504, 27679),

Gene: Lidong_57 Start: 52859, Stop: 51447, Start Num: 147

Candidate Starts for Lidong_57:

(26, 53207), (58, 53078), (Start: 89 @52988 has 3 MA's), (Start: 147 @52859 has 27 MA's), (160, 52814), (Start: 183 @52724 has 1 MA's), (184, 52721), (186, 52715), (192, 52694), (216, 52631), (237, 52553), (247, 52523), (253, 52505), (272, 52418), (275, 52403), (287, 52361), (303, 52280), (320, 52232), (330, 52190), (336, 52172), (338, 52169), (343, 52142), (356, 52091), (365, 52055), (380, 52004), (400, 51920), (406, 51899), (457, 51743), (459, 51737), (462, 51725), (487, 51599), (518, 51485),

Gene: LilTerminator_40 Start: 29093, Stop: 27666, Start Num: 138

Candidate Starts for LilTerminator_40:

(Start: 138 @29093 has 140 MA's), (146, 29063), (Start: 147 @29057 has 27 MA's), (Start: 183 @28943 has 1 MA's), (184, 28940), (185, 28937), (228, 28796), (251, 28703), (252, 28700), (303, 28445), (321, 28394), (323, 28388), (339, 28340), (341, 28328), (344, 28307), (373, 28193), (376, 28184), (391, 28139), (393, 28133), (401, 28106), (424, 28034), (443, 27962), (450, 27926), (453, 27917), (457, 27902), (459, 27896), (464, 27878), (472, 27836), (484, 27773), (504, 27701),

Gene: Linetti_59 Start: 53022, Stop: 51613, Start Num: 147

Candidate Starts for Linetti_59:

(26, 53400), (34, 53349), (47, 53298), (66, 53244), (76, 53214), (Start: 89 @53181 has 3 MA's), (97, 53172), (Start: 108 @53145 has 25 MA's), (Start: 147 @53022 has 27 MA's), (160, 52977), (170, 52935), (Start: 183 @52887 has 1 MA's), (184, 52884), (186, 52878), (187, 52875), (190, 52863), (192, 52857), (201, 52821), (209, 52809), (210, 52806), (247, 52686), (253, 52668), (266, 52605), (272, 52581), (275, 52566), (287, 52524), (302, 52446), (320, 52395), (336, 52335), (338, 52332), (340, 52323), (343, 52305), (353, 52263), (365, 52218), (400, 52083), (403, 52068), (409, 52047), (444, 51966), (445, 51963), (457, 51906), (459, 51900), (462, 51888), (473, 51837), (476, 51822), (477, 51813), (483, 51774), (487, 51762), (515, 51666), (518, 51651),

Gene: Lizz_70 Start: 50158, Stop: 48272, Start Num: 17

Candidate Starts for Lizz_70:

(10, 50218), (Start: 17 @50158 has 8 MA's), (Start: 22 @50143 has 31 MA's), (27, 50080), (28, 50071), (30, 50059), (58, 49966), (77, 49903), (83, 49885), (Start: 113 @49828 has 1 MA's), (123, 49804), (164, 49645), (177, 49606), (181, 49597), (215, 49489), (241, 49381), (265, 49276), (283, 49177), (292, 49117), (316, 49030), (317, 49027), (344, 48922), (346, 48913), (350, 48901), (381, 48802), (419, 48685), (424, 48673), (433, 48646), (451, 48556), (455, 48541), (468, 48487), (479, 48430), (515, 48304),

Gene: Lizzo_59 Start: 52326, Stop: 50794, Start Num: 108

Candidate Starts for Lizzo_59:

(26, 52581), (34, 52530), (47, 52479), (66, 52425), (76, 52395), (Start: 89 @52362 has 3 MA's), (97, 52353), (Start: 108 @52326 has 25 MA's), (160, 52158), (170, 52116), (Start: 183 @52068 has 1

MA's), (187, 52056), (190, 52044), (192, 52038), (197, 52017), (209, 51990), (253, 51849), (272, 51762), (275, 51747), (280, 51735), (287, 51705), (295, 51654), (302, 51627), (320, 51576), (325, 51552), (330, 51534), (336, 51516), (338, 51513), (343, 51486), (353, 51444), (365, 51399), (400, 51264), (403, 51249), (409, 51228), (440, 51171), (444, 51147), (457, 51087), (459, 51081), (460, 51075), (462, 51069), (473, 51018), (477, 50994), (483, 50955), (487, 50943), (488, 50940), (515, 50847), (518, 50832), (525, 50811),

Gene: LordBart_42 Start: 26597, Stop: 28531, Start Num: 23

Candidate Starts for LordBart_42:

(3, 26357), (Start: 8 @26501 has 1 MA's), (21, 26591), (Start: 23 @26597 has 3 MA's), (45, 26744), (50, 26762), (Start: 113 @26921 has 1 MA's), (177, 27137), (181, 27146), (210, 27236), (221, 27278), (226, 27308), (256, 27440), (292, 27626), (296, 27644), (300, 27659), (317, 27716), (335, 27776), (352, 27848), (388, 27986), (407, 28052), (414, 28082), (415, 28085), (439, 28160), (451, 28238), (465, 28298), (483, 28388), (490, 28406),

Gene: Lovelyunicorn_41 Start: 31119, Stop: 29731, Start Num: 138

Candidate Starts for Lovelyunicorn_41:

(2, 31770), (31, 31416), (52, 31341), (Start: 138 @31119 has 140 MA's), (181, 30975), (Start: 183 @30969 has 1 MA's), (184, 30966), (221, 30852), (229, 30825), (243, 30765), (251, 30738), (252, 30735), (272, 30639), (280, 30597), (323, 30426), (328, 30405), (339, 30378), (348, 30330), (373, 30270), (424, 30111), (440, 30057), (459, 29973), (460, 29967), (464, 29955), (481, 29859), (497, 29805), (498, 29802), (504, 29778),

Gene: Lucky3_39 Start: 30647, Stop: 29256, Start Num: 140

Candidate Starts for Lucky3_39:

(Start: 140 @30647 has 10 MA's), (Start: 141 @30644 has 21 MA's), (Start: 147 @30614 has 27 MA's), (181, 30506), (184, 30497), (199, 30443), (228, 30362), (243, 30296), (252, 30266), (259, 30221), (272, 30170), (319, 29966), (323, 29957), (335, 29918), (339, 29906), (341, 29894), (342, 29891), (349, 29855), (352, 29846), (362, 29831), (373, 29795), (377, 29783), (380, 29771), (404, 29696), (424, 29636), (450, 29528), (453, 29519), (457, 29504), (459, 29498), (460, 29492), (515, 29270),

Gene: Ludgate_41 Start: 31117, Stop: 29729, Start Num: 138

Candidate Starts for Ludgate_41:

(52, 31339), (Start: 138 @31117 has 140 MA's), (181, 30973), (Start: 183 @30967 has 1 MA's), (184, 30964), (221, 30850), (229, 30823), (243, 30763), (251, 30736), (252, 30733), (272, 30637), (280, 30595), (323, 30424), (328, 30403), (335, 30388), (339, 30376), (348, 30328), (373, 30268), (404, 30172), (424, 30109), (440, 30055), (459, 29971), (460, 29965), (464, 29953), (478, 29878), (481, 29857), (497, 29803), (498, 29800), (504, 29776),

Gene: Luker_58 Start: 53170, Stop: 51665, Start Num: 106

Candidate Starts for Luker_58:

(26, 53425), (58, 53296), (Start: 89 @53206 has 3 MA's), (Start: 106 @53170 has 1 MA's), (Start: 147 @53077 has 27 MA's), (160, 53032), (Start: 183 @52942 has 1 MA's), (184, 52939), (186, 52933), (192, 52912), (216, 52849), (247, 52741), (253, 52723), (272, 52636), (275, 52621), (287, 52579), (303, 52498), (320, 52450), (330, 52408), (336, 52390), (338, 52387), (343, 52360), (356, 52309), (365, 52273), (380, 52222), (400, 52138), (406, 52117), (457, 51961), (459, 51955), (462, 51943), (487, 51817), (518, 51703),

Gene: Luna18_42 Start: 30536, Stop: 29130, Start Num: 138

Candidate Starts for Luna18_42:

(Start: 138 @30536 has 140 MA's), (146, 30506), (182, 30389), (Start: 183 @30386 has 1 MA's), (184, 30383), (201, 30323), (210, 30302), (221, 30260), (229, 30233), (251, 30146), (252, 30143), (258,

30101), (270, 30050), (303, 29888), (323, 29831), (341, 29771), (343, 29762), (344, 29750), (362, 29711), (371, 29684), (372, 29681), (373, 29675), (401, 29588), (405, 29576), (450, 29408), (453, 29399), (457, 29384), (459, 29378), (460, 29372), (464, 29360), (490, 29237), (496, 29213), (504, 29183),

Gene: MAnor_58 Start: 41147, Stop: 39669, Start Num: 109

Candidate Starts for MAnor_58:

(95, 41174), (Start: 109 @41147 has 35 MA's), (134, 41084), (144, 41057), (Start: 149 @41030 has 1 MA's), (161, 40976), (168, 40955), (169, 40952), (172, 40940), (177, 40925), (Start: 183 @40913 has 1 MA's), (214, 40820), (252, 40697), (261, 40643), (263, 40637), (266, 40631), (281, 40553), (285, 40538), (304, 40439), (332, 40349), (335, 40340), (339, 40328), (343, 40307), (345, 40292), (347, 40283), (354, 40262), (369, 40223), (372, 40214), (376, 40199), (391, 40157), (414, 40079), (415, 40076), (427, 40034), (433, 40016), (453, 39920), (465, 39869), (472, 39839), (478, 39806), (491, 39749), (496, 39734),

Gene: MCubed_40 Start: 30968, Stop: 29556, Start Num: 141

Candidate Starts for MCubed_40:

(Start: 140 @30971 has 10 MA's), (Start: 141 @30968 has 21 MA's), (Start: 147 @30938 has 27 MA's), (Start: 149 @30932 has 1 MA's), (159, 30899), (221, 30707), (229, 30680), (243, 30620), (251, 30593), (252, 30590), (258, 30548), (272, 30494), (280, 30452), (303, 30338), (323, 30281), (328, 30260), (335, 30245), (339, 30233), (341, 30221), (342, 30218), (344, 30200), (362, 30119), (373, 30083), (391, 30029), (402, 29987), (414, 29957), (417, 29942), (420, 29933), (423, 29927), (438, 29885), (450, 29816), (457, 29792), (459, 29786), (460, 29780), (464, 29768), (481, 29672), (484, 29663), (490, 29645), (492, 29633), (494, 29627), (505, 29588),

Gene: MScarn_57 Start: 38763, Stop: 37285, Start Num: 109

Candidate Starts for MScarn_57:

(Start: 109 @38763 has 35 MA's), (142, 38676), (144, 38670), (155, 38619), (168, 38568), (172, 38553), (201, 38469), (211, 38445), (214, 38436), (252, 38313), (261, 38259), (263, 38253), (266, 38247), (281, 38169), (304, 38055), (313, 38028), (323, 38004), (343, 37923), (347, 37899), (354, 37878), (369, 37839), (374, 37821), (376, 37815), (413, 37704), (415, 37698), (427, 37656), (433, 37638), (450, 37551), (453, 37542), (459, 37521), (465, 37491), (472, 37461), (478, 37428), (492, 37368), (501, 37338),

Gene: MaVan_49 Start: 37938, Stop: 36448, Start Num: 111

Candidate Starts for MaVan_49:

(Start: 111 @37938 has 6 MA's), (144, 37848), (Start: 149 @37821 has 1 MA's), (160, 37779), (172, 37731), (Start: 183 @37704 has 1 MA's), (211, 37623), (212, 37620), (214, 37614), (219, 37593), (236, 37527), (261, 37437), (266, 37425), (279, 37362), (281, 37347), (285, 37332), (309, 37215), (313, 37206), (337, 37128), (343, 37101), (344, 37089), (347, 37077), (362, 37038), (369, 37017), (370, 37014), (374, 36999), (394, 36927), (414, 36858), (427, 36813), (440, 36768), (441, 36753), (446, 36723), (453, 36699), (465, 36648), (472, 36618), (485, 36552), (491, 36528), (501, 36495), (511, 36459),

Gene: Maco6_48 Start: 38222, Stop: 36711, Start Num: 92

Candidate Starts for Maco6_48:

(Start: 92 @38222 has 2 MA's), (Start: 112 @38186 has 12 MA's), (143, 38096), (144, 38093), (154, 38045), (172, 37976), (213, 37862), (253, 37733), (261, 37682), (263, 37676), (266, 37670), (270, 37646), (281, 37592), (313, 37451), (314, 37448), (331, 37391), (347, 37319), (348, 37316), (407, 37142), (414, 37121), (427, 37076), (450, 36971), (465, 36911), (505, 36743), (511, 36722),

Gene: MaeLinda_41 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for MaeLinda_41:

(31, 31415), (52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (254, 30728), (272, 30638), (280, 30596), (323, 30425), (335, 30389), (339, 30377), (344, 30344), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: ManRay_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for ManRay_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: Mandalorian_39 Start: 30635, Stop: 29223, Start Num: 141

Candidate Starts for Mandalorian_39:

(Start: 140 @30638 has 10 MA's), (Start: 141 @30635 has 21 MA's), (Start: 147 @30605 has 27 MA's), (Start: 149 @30599 has 1 MA's), (Start: 183 @30491 has 1 MA's), (185, 30485), (221, 30374), (229, 30347), (241, 30296), (243, 30287), (251, 30260), (252, 30257), (258, 30215), (272, 30161), (303, 30005), (321, 29954), (323, 29948), (328, 29927), (332, 29921), (335, 29912), (339, 29900), (341, 29888), (359, 29810), (373, 29750), (375, 29744), (391, 29696), (402, 29654), (424, 29591), (429, 29579), (437, 29555), (438, 29552), (450, 29483), (453, 29474), (457, 29459), (459, 29453), (460, 29447), (464, 29435), (484, 29330), (490, 29312), (492, 29300), (505, 29255),

Gene: Margaret_58 Start: 39745, Stop: 38270, Start Num: 112

Candidate Starts for Margaret_58:

(Start: 112 @39745 has 12 MA's), (128, 39703), (144, 39655), (Start: 149 @39628 has 1 MA's), (157, 39598), (161, 39574), (168, 39553), (170, 39544), (172, 39538), (Start: 183 @39511 has 1 MA's), (201, 39454), (204, 39445), (212, 39427), (214, 39421), (252, 39298), (261, 39244), (263, 39238), (266, 39232), (279, 39169), (281, 39154), (285, 39139), (332, 38950), (335, 38941), (339, 38929), (343, 38908), (352, 38869), (355, 38860), (369, 38824), (374, 38806), (376, 38800), (392, 38755), (394, 38749), (414, 38680), (428, 38632), (433, 38617), (440, 38590), (441, 38575), (453, 38521), (465, 38470), (478, 38407), (490, 38359), (492, 38347), (495, 38338),

Gene: Martin_42 Start: 31123, Stop: 29735, Start Num: 138

Candidate Starts for Martin_42:

(2, 31774), (31, 31420), (52, 31345), (Start: 138 @31123 has 140 MA's), (181, 30979), (Start: 183 @30973 has 1 MA's), (184, 30970), (221, 30856), (229, 30829), (243, 30769), (251, 30742), (252, 30739), (272, 30643), (280, 30601), (319, 30439), (323, 30430), (328, 30409), (335, 30394), (339, 30382), (348, 30334), (373, 30274), (404, 30178), (424, 30115), (440, 30061), (459, 29977), (460, 29971), (464, 29959), (481, 29863), (497, 29809), (498, 29806), (504, 29782),

Gene: Mayweather_61 Start: 41658, Stop: 40414, Start Num: 183

Candidate Starts for Mayweather_61:

(Start: 109 @41892 has 35 MA's), (134, 41829), (144, 41802), (Start: 149 @41775 has 1 MA's), (161, 41721), (168, 41700), (169, 41697), (172, 41685), (177, 41670), (Start: 183 @41658 has 1 MA's), (214, 41565), (252, 41442), (261, 41388), (263, 41382), (266, 41376), (281, 41298), (285, 41283), (304, 41184), (332, 41094), (335, 41085), (339, 41073), (343, 41052), (345, 41037), (347, 41028), (354, 41007), (369, 40968), (372, 40959), (376, 40944), (391, 40902), (414, 40824), (415, 40821), (427, 40779), (433, 40761), (453, 40665), (465, 40614), (472, 40584), (478, 40551), (491, 40494), (496, 40479),

Gene: Mbo2_52 Start: 42925, Stop: 41438, Start Num: 126

Candidate Starts for Mbo2_52:

(81, 43012), (Start: 126 @42925 has 3 MA's), (150, 42838), (160, 42802), (165, 42784), (170, 42769), (175, 42754), (179, 42742), (Start: 183 @42730 has 1 MA's), (185, 42724), (196, 42682), (237, 42559), (267, 42445), (286, 42370), (295, 42316), (318, 42241), (320, 42238), (325, 42214), (338, 42175), (344, 42136), (360, 42094), (406, 41911), (428, 41851), (434, 41833), (444, 41788), (445, 41785), (454, 41737), (456, 41728), (462, 41707), (465, 41689), (471, 41665), (476, 41641), (483, 41599), (490, 41572), (492, 41560), (501, 41530), (505, 41515), (518, 41473),

Gene: McGalleon_43 Start: 32555, Stop: 31152, Start Num: 140

Candidate Starts for McGalleon_43:

(41, 32789), (57, 32738), (96, 32648), (Start: 140 @32555 has 10 MA's), (181, 32411), (Start: 183 @32405 has 1 MA's), (201, 32342), (221, 32288), (229, 32261), (243, 32201), (251, 32174), (252, 32171), (271, 32078), (272, 32075), (280, 32033), (319, 31871), (323, 31862), (328, 31841), (339, 31814), (349, 31763), (373, 31706), (391, 31652), (404, 31610), (417, 31565), (452, 31433), (459, 31409), (460, 31403), (464, 31391), (481, 31295), (490, 31268), (497, 31241), (504, 31214), (514, 31184),

Gene: Mercedes_36 Start: 28234, Stop: 26813, Start Num: 138

Candidate Starts for Mercedes_36:

(Start: 138 @28234 has 140 MA's), (Start: 147 @28198 has 27 MA's), (171, 28114), (199, 28027), (201, 28021), (225, 27949), (228, 27937), (251, 27844), (252, 27841), (260, 27790), (303, 27586), (323, 27529), (339, 27481), (344, 27448), (349, 27430), (373, 27334), (376, 27325), (391, 27280), (393, 27274), (404, 27238), (417, 27193), (424, 27175), (450, 27067), (453, 27058), (457, 27043), (459, 27037), (496, 26872),

Gene: MillyPhilly_41 Start: 31111, Stop: 29723, Start Num: 138

Candidate Starts for MillyPhilly_41:

(2, 31762), (31, 31408), (52, 31333), (Start: 138 @31111 has 140 MA's), (181, 30967), (Start: 183 @30961 has 1 MA's), (184, 30958), (221, 30844), (229, 30817), (243, 30757), (251, 30730), (252, 30727), (272, 30631), (280, 30589), (319, 30427), (323, 30418), (328, 30397), (335, 30382), (339, 30370), (348, 30322), (373, 30262), (404, 30166), (424, 30103), (440, 30049), (459, 29965), (460, 29959), (464, 29947), (481, 29851), (497, 29797), (498, 29794), (504, 29770),

Gene: Minos_58 Start: 52601, Stop: 51189, Start Num: 147

Candidate Starts for Minos_58:

(26, 52949), (58, 52820), (87, 52733), (Start: 89 @52730 has 3 MA's), (Start: 147 @52601 has 27 MA's), (160, 52556), (Start: 183 @52466 has 1 MA's), (184, 52463), (186, 52457), (192, 52436), (216, 52373), (247, 52265), (253, 52247), (272, 52160), (275, 52145), (287, 52103), (303, 52022), (320, 51974), (330, 51932), (336, 51914), (338, 51911), (343, 51884), (356, 51833), (365, 51797), (380, 51746), (400, 51662), (406, 51641), (457, 51485), (459, 51479), (462, 51467), (487, 51341), (518, 51227),

Gene: MonChoix_39 Start: 31157, Stop: 29766, Start Num: 138

Candidate Starts for MonChoix_39:

(Start: 138 @31157 has 140 MA's), (181, 31010), (Start: 183 @31004 has 1 MA's), (184, 31001), (221, 30887), (229, 30860), (243, 30800), (251, 30773), (252, 30770), (272, 30674), (280, 30632), (323, 30461), (332, 30434), (348, 30365), (373, 30305), (440, 30092), (443, 30074), (450, 30038), (459, 30008), (460, 30002), (464, 29990), (481, 29894), (497, 29840), (498, 29837),

Gene: Monty_58 Start: 51476, Stop: 49944, Start Num: 108

Candidate Starts for Monty_58:

(26, 51731), (34, 51680), (47, 51629), (66, 51575), (76, 51545), (Start: 89 @51512 has 3 MA's), (97, 51503), (Start: 108 @51476 has 25 MA's), (160, 51308), (170, 51266), (Start: 183 @51218 has 1

MA's), (187, 51206), (190, 51194), (192, 51188), (197, 51167), (209, 51140), (253, 50999), (272, 50912), (275, 50897), (280, 50885), (287, 50855), (295, 50804), (302, 50777), (320, 50726), (336, 50666), (338, 50663), (343, 50636), (353, 50594), (365, 50549), (400, 50414), (403, 50399), (409, 50378), (444, 50297), (445, 50294), (457, 50237), (459, 50231), (460, 50225), (462, 50219), (477, 50144), (483, 50105), (487, 50093), (488, 50090), (515, 49997), (518, 49982), (525, 49961),

Gene: Morrigan_42 Start: 30540, Stop: 29155, Start Num: 140

Candidate Starts for Morrigan_42:

(Start: 138 @30543 has 140 MA's), (Start: 140 @30540 has 10 MA's), (146, 30513), (Start: 149 @30501 has 1 MA's), (150, 30498), (Start: 167 @30435 has 1 MA's), (201, 30330), (218, 30279), (221, 30267), (251, 30153), (252, 30150), (258, 30108), (270, 30057), (323, 29838), (339, 29790), (341, 29778), (342, 29775), (343, 29769), (344, 29757), (362, 29718), (373, 29682), (377, 29670), (391, 29628), (401, 29595), (404, 29586), (405, 29583), (424, 29523), (450, 29415), (453, 29406), (457, 29391), (459, 29385), (460, 29379), (464, 29367), (484, 29262), (490, 29244), (496, 29220), (504, 29190),

Gene: MortySmith_38 Start: 24974, Stop: 26881, Start Num: 22

Candidate Starts for MortySmith_38:

(4, 24800), (Start: 22 @24974 has 31 MA's), (27, 25037), (30, 25058), (45, 25112), (93, 25247), (Start: 113 @25289 has 1 MA's), (130, 25334), (177, 25508), (181, 25517), (210, 25607), (221, 25649), (224, 25664), (266, 25850), (290, 25985), (292, 25997), (300, 26030), (339, 26159), (371, 26276), (450, 26585), (451, 26588), (465, 26648), (483, 26738), (492, 26768), (504, 26810), (520, 26861),

Gene: MrWorldwide_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for MrWorldwide_41:

(2, 31772), (31, 31418), (52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (319, 30437), (323, 30428), (328, 30407), (335, 30392), (339, 30380), (348, 30332), (373, 30272), (404, 30176), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: MrWormie_57 Start: 51762, Stop: 50350, Start Num: 147

Candidate Starts for MrWormie_57:

(26, 52110), (58, 51981), (Start: 89 @51891 has 3 MA's), (Start: 147 @51762 has 27 MA's), (160, 51717), (Start: 183 @51627 has 1 MA's), (184, 51624), (186, 51618), (192, 51597), (216, 51534), (247, 51426), (253, 51408), (272, 51321), (275, 51306), (287, 51264), (303, 51183), (320, 51135), (330, 51093), (336, 51075), (338, 51072), (343, 51045), (356, 50994), (365, 50958), (380, 50907), (400, 50823), (406, 50802), (457, 50646), (459, 50640), (462, 50628), (487, 50502), (518, 50388),

Gene: Msay19_64 Start: 54046, Stop: 52514, Start Num: 108

Candidate Starts for Msay19_64:

(26, 54301), (34, 54250), (66, 54145), (76, 54115), (Start: 89 @54082 has 3 MA's), (97, 54073), (Start: 108 @54046 has 25 MA's), (160, 53878), (170, 53836), (176, 53818), (Start: 183 @53788 has 1 MA's), (187, 53776), (190, 53764), (192, 53758), (197, 53737), (253, 53569), (272, 53482), (275, 53467), (280, 53455), (287, 53425), (295, 53374), (320, 53296), (325, 53272), (330, 53254), (336, 53236), (338, 53233), (340, 53224), (343, 53206), (353, 53164), (365, 53119), (371, 53101), (400, 52984), (403, 52969), (409, 52948), (444, 52867), (445, 52864), (457, 52807), (459, 52801), (462, 52789), (477, 52714), (483, 52675), (487, 52663), (488, 52660), (515, 52567), (518, 52552),

Gene: Muddy_50 Start: 39454, Stop: 37943, Start Num: 92

Candidate Starts for Muddy_50:

(Start: 92 @39454 has 2 MA's), (Start: 112 @39418 has 12 MA's), (143, 39328), (144, 39325), (154, 39277), (172, 39208), (213, 39094), (253, 38965), (261, 38914), (263, 38908), (266, 38902), (270,

38878), (281, 38824), (313, 38683), (314, 38680), (331, 38623), (347, 38551), (348, 38548), (407, 38374), (414, 38353), (427, 38308), (450, 38203), (465, 38143), (505, 37975), (511, 37954),

Gene: MunkgeeRoachy_51 Start: 38189, Stop: 36711, Start Num: 109

Candidate Starts for MunkgeeRoachy_51:

(Start: 109 @38189 has 35 MA's), (144, 38096), (161, 38015), (168, 37994), (211, 37871), (212, 37868), (261, 37685), (263, 37679), (266, 37673), (272, 37643), (281, 37595), (304, 37481), (313, 37454), (323, 37430), (339, 37370), (347, 37325), (354, 37304), (369, 37265), (374, 37247), (376, 37241), (427, 37082), (428, 37079), (433, 37064), (453, 36968), (459, 36947), (465, 36917),

Gene: Nagem_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Nagem_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (478, 29875), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: NarutoRun_40 Start: 25911, Stop: 27818, Start Num: 22

Candidate Starts for NarutoRun_40:

(Start: 22 @25911 has 31 MA's), (27, 25974), (30, 25995), (45, 26049), (Start: 113 @26226 has 1 MA's), (130, 26271), (177, 26445), (181, 26454), (210, 26544), (224, 26601), (266, 26787), (290, 26922), (292, 26934), (300, 26967), (339, 27096), (371, 27213), (393, 27288), (450, 27522), (451, 27525), (465, 27585), (483, 27675), (492, 27705), (504, 27747), (520, 27798),

Gene: Nattles_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Nattles_40:

(52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (271, 30326), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (339, 30062), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (478, 29564), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Nebulous_39 Start: 32131, Stop: 30701, Start Num: 136

Candidate Starts for Nebulous_39:

(Start: 136 @32131 has 4 MA's), (146, 32098), (159, 32053), (Start: 183 @31978 has 1 MA's), (184, 31975), (225, 31843), (228, 31831), (251, 31738), (252, 31735), (253, 31732), (279, 31603), (321, 31429), (323, 31423), (328, 31402), (339, 31375), (341, 31363), (342, 31360), (344, 31342), (359, 31285), (373, 31228), (377, 31216), (391, 31174), (404, 31132), (412, 31108), (424, 31069), (440, 31015), (450, 30961), (453, 30952), (457, 30937), (459, 30931), (484, 30808), (490, 30790), (496, 30766),

Gene: Neferthena_41 Start: 31335, Stop: 29905, Start Num: 136

Candidate Starts for Neferthena_41:

(Start: 136 @31335 has 4 MA's), (146, 31302), (159, 31257), (181, 31188), (Start: 183 @31182 has 1 MA's), (184, 31179), (225, 31047), (251, 30942), (252, 30939), (321, 30633), (323, 30627), (328, 30606), (339, 30579), (344, 30546), (359, 30489), (369, 30447), (373, 30432), (377, 30420), (391, 30378), (404, 30336), (412, 30312), (417, 30291), (424, 30273), (440, 30219), (450, 30165), (453, 30156), (457, 30141), (459, 30135), (481, 30021), (494, 29976), (496, 29970), (502, 29949), (504, 29940),

Gene: Neovie_57 Start: 52863, Stop: 51451, Start Num: 147

Candidate Starts for Neovie_57:

(26, 53211), (58, 53082), (87, 52995), (Start: 89 @52992 has 3 MA's), (Start: 147 @52863 has 27 MA's), (160, 52818), (Start: 183 @52728 has 1 MA's), (184, 52725), (186, 52719), (192, 52698), (216, 52635), (247, 52527), (253, 52509), (272, 52422), (275, 52407), (287, 52365), (303, 52284), (320, 52236), (330, 52194), (336, 52176), (338, 52173), (343, 52146), (356, 52095), (365, 52059), (380, 52008), (400, 51924), (406, 51903), (457, 51747), (459, 51741), (462, 51729), (487, 51603), (518, 51489),

Gene: Neptune_40 Start: 25911, Stop: 27818, Start Num: 22

Candidate Starts for Neptune_40:

(Start: 22 @25911 has 31 MA's), (27, 25974), (30, 25995), (45, 26049), (Start: 113 @26226 has 1 MA's), (130, 26271), (177, 26445), (181, 26454), (210, 26544), (266, 26787), (290, 26922), (292, 26934), (300, 26967), (339, 27096), (371, 27213), (393, 27288), (450, 27522), (451, 27525), (465, 27585), (483, 27675), (492, 27705), (504, 27747), (520, 27798),

Gene: Newt_58 Start: 53091, Stop: 51679, Start Num: 147

Candidate Starts for Newt_58:

(26, 53439), (58, 53310), (87, 53223), (Start: 89 @53220 has 3 MA's), (Start: 147 @53091 has 27 MA's), (160, 53046), (Start: 183 @52956 has 1 MA's), (184, 52953), (186, 52947), (192, 52926), (216, 52863), (247, 52755), (253, 52737), (272, 52650), (275, 52635), (287, 52593), (303, 52512), (320, 52464), (330, 52422), (336, 52404), (338, 52401), (343, 52374), (356, 52323), (365, 52287), (380, 52236), (400, 52152), (406, 52131), (457, 51975), (459, 51969), (462, 51957), (487, 51831), (518, 51717),

Gene: Niagara_57 Start: 53309, Stop: 51606, Start Num: 36

Candidate Starts for Niagara_57:

(Start: 36 @53309 has 6 MA's), (Start: 40 @53297 has 2 MA's), (Start: 114 @53114 has 2 MA's), (Start: 147 @53024 has 27 MA's), (150, 53015), (160, 52979), (165, 52955), (168, 52946), (170, 52937), (Start: 183 @52889 has 1 MA's), (190, 52865), (216, 52793), (220, 52772), (231, 52736), (232, 52733), (266, 52604), (267, 52601), (275, 52565), (276, 52562), (282, 52544), (284, 52535), (287, 52523), (294, 52475), (303, 52442), (320, 52394), (325, 52370), (343, 52304), (365, 52205), (389, 52106), (392, 52097), (399, 52073), (400, 52070), (440, 51977), (444, 51953), (445, 51950), (457, 51893), (462, 51875), (483, 51758), (484, 51755), (488, 51743), (518, 51644), (525, 51623),

Gene: Nibbles_48 Start: 37634, Stop: 36144, Start Num: 111

Candidate Starts for Nibbles_48:

(Start: 111 @37634 has 6 MA's), (144, 37544), (Start: 149 @37517 has 1 MA's), (160, 37475), (170, 37433), (172, 37427), (Start: 183 @37400 has 1 MA's), (211, 37319), (212, 37316), (214, 37310), (219, 37289), (236, 37223), (261, 37133), (266, 37121), (281, 37043), (285, 37028), (309, 36911), (313, 36902), (337, 36824), (343, 36797), (344, 36785), (347, 36773), (362, 36734), (369, 36713), (370, 36710), (374, 36695), (394, 36623), (427, 36509), (440, 36464), (441, 36449), (446, 36419), (453, 36395), (465, 36344), (466, 36341), (472, 36314), (485, 36248), (491, 36224), (501, 36191), (511, 36155),

Gene: NickSell_41 Start: 31124, Stop: 29736, Start Num: 138

Candidate Starts for NickSell_41:

(2, 31775), (31, 31421), (52, 31346), (Start: 138 @31124 has 140 MA's), (181, 30980), (Start: 183 @30974 has 1 MA's), (184, 30971), (221, 30857), (229, 30830), (243, 30770), (251, 30743), (252, 30740), (272, 30644), (280, 30602), (319, 30440), (323, 30431), (328, 30410), (335, 30395), (339, 30383), (348, 30335), (373, 30275), (404, 30179), (424, 30116), (440, 30062), (459, 29978), (460, 29972), (464, 29960), (481, 29864), (497, 29810), (498, 29807), (504, 29783),

Gene: Nimi13_57 Start: 52610, Stop: 51198, Start Num: 147

Candidate Starts for Nimi13_57:

(26, 52958), (58, 52829), (Start: 89 @52739 has 3 MA's), (Start: 147 @52610 has 27 MA's), (160, 52565), (Start: 183 @52475 has 1 MA's), (184, 52472), (186, 52466), (192, 52445), (216, 52382), (247, 52274), (253, 52256), (272, 52169), (275, 52154), (287, 52112), (303, 52031), (320, 51983), (330, 51941), (336, 51923), (338, 51920), (343, 51893), (356, 51842), (365, 51806), (380, 51755), (400, 51671), (406, 51650), (457, 51494), (459, 51488), (462, 51476), (487, 51350), (518, 51236),

Gene: Nina_53 Start: 39329, Stop: 37851, Start Num: 109

Candidate Starts for Nina_53:

(Start: 109 @39329 has 35 MA's), (142, 39242), (144, 39236), (161, 39155), (211, 39011), (212, 39008), (261, 38825), (263, 38819), (266, 38813), (281, 38735), (304, 38621), (313, 38594), (323, 38570), (339, 38510), (347, 38465), (354, 38444), (369, 38405), (374, 38387), (413, 38270), (427, 38222), (428, 38219), (433, 38204), (453, 38108), (459, 38087), (465, 38057),

Gene: NoShow_58 Start: 42406, Stop: 40934, Start Num: 114

Candidate Starts for NoShow_58:

(Start: 114 @42406 has 2 MA's), (144, 42316), (Start: 149 @42289 has 1 MA's), (163, 42229), (201, 42115), (213, 42085), (261, 41905), (263, 41899), (266, 41893), (281, 41815), (331, 41614), (347, 41542), (348, 41539), (352, 41527), (369, 41482), (391, 41422), (400, 41392), (433, 41281), (444, 41227), (453, 41185), (465, 41134), (485, 41038), (492, 41011), (505, 40966),

Gene: Nodigi_60 Start: 41112, Stop: 39637, Start Num: 112

Candidate Starts for Nodigi_60:

(62, 41229), (64, 41223), (Start: 112 @41112 has 12 MA's), (128, 41070), (144, 41022), (Start: 149 @40995 has 1 MA's), (168, 40920), (170, 40911), (172, 40905), (201, 40821), (209, 40803), (212, 40794), (214, 40788), (252, 40665), (261, 40611), (263, 40605), (266, 40599), (279, 40536), (281, 40521), (285, 40506), (335, 40308), (343, 40275), (352, 40236), (369, 40191), (390, 40128), (392, 40122), (394, 40116), (400, 40095), (403, 40080), (414, 40047), (415, 40044), (428, 39999), (441, 39942), (453, 39888), (465, 39837), (478, 39774), (490, 39726), (495, 39705),

Gene: Nucci_39 Start: 30618, Stop: 29206, Start Num: 141

Candidate Starts for Nucci_39:

(Start: 140 @30621 has 10 MA's), (Start: 141 @30618 has 21 MA's), (Start: 147 @30588 has 27 MA's), (Start: 149 @30582 has 1 MA's), (159, 30549), (Start: 183 @30474 has 1 MA's), (185, 30468), (221, 30357), (229, 30330), (241, 30279), (243, 30270), (251, 30243), (252, 30240), (258, 30198), (272, 30144), (303, 29988), (321, 29937), (323, 29931), (328, 29910), (332, 29904), (335, 29895), (339, 29883), (341, 29871), (359, 29793), (373, 29733), (375, 29727), (391, 29679), (402, 29637), (424, 29574), (429, 29562), (437, 29538), (438, 29535), (450, 29466), (453, 29457), (457, 29442), (459, 29436), (460, 29430), (464, 29418), (484, 29313), (490, 29295), (492, 29283), (505, 29238),

Gene: Oats_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for Oats_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (271, 30339), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (339, 30075), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (478, 29577), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: OldNelly_42 Start: 31120, Stop: 29732, Start Num: 138

Candidate Starts for OldNelly_42:

(52, 31342), (Start: 138 @31120 has 140 MA's), (181, 30976), (Start: 183 @30970 has 1 MA's), (184, 30967), (221, 30853), (229, 30826), (243, 30766), (251, 30739), (252, 30736), (254, 30730), (272, 30640), (280, 30598), (323, 30427), (335, 30391), (339, 30379), (344, 30346), (348, 30331), (373, 30271), (404, 30175), (424, 30112), (440, 30058), (459, 29974), (460, 29968), (464, 29956), (481,

29860), (497, 29806), (498, 29803), (504, 29779),

Gene: Orchid_57 Start: 50422, Stop: 48932, Start Num: 124

Candidate Starts for Orchid_57:

(Start: 124 @50422 has 5 MA's), (150, 50329), (153, 50320), (156, 50308), (160, 50293), (165, 50275), (184, 50218), (204, 50146), (205, 50143), (230, 50050), (239, 50017), (251, 49984), (252, 49981), (255, 49960), (272, 49891), (282, 49855), (299, 49768), (320, 49705), (322, 49702), (327, 49672), (345, 49600), (347, 49591), (384, 49468), (386, 49462), (438, 49330), (445, 49288), (454, 49243), (462, 49213), (523, 48961),

Gene: Orla_60 Start: 41041, Stop: 39566, Start Num: 112

Candidate Starts for Orla_60:

(Start: 112 @41041 has 12 MA's), (128, 40999), (144, 40951), (Start: 149 @40924 has 1 MA's), (168, 40849), (170, 40840), (172, 40834), (201, 40750), (209, 40732), (212, 40723), (214, 40717), (252, 40594), (261, 40540), (263, 40534), (266, 40528), (279, 40465), (281, 40450), (285, 40435), (335, 40237), (343, 40204), (352, 40165), (369, 40120), (390, 40057), (392, 40051), (394, 40045), (414, 39976), (415, 39973), (428, 39928), (441, 39871), (453, 39817), (465, 39766), (490, 39655), (495, 39634),

Gene: OverHedge_40 Start: 25901, Stop: 27808, Start Num: 22

Candidate Starts for OverHedge_40:

(Start: 22 @25901 has 31 MA's), (27, 25964), (30, 25985), (45, 26039), (Start: 113 @26216 has 1 MA's), (130, 26261), (177, 26435), (181, 26444), (210, 26534), (224, 26591), (266, 26777), (290, 26912), (292, 26924), (300, 26957), (339, 27086), (371, 27203), (393, 27278), (450, 27512), (451, 27515), (465, 27575), (483, 27665), (492, 27695), (504, 27737), (520, 27788),

Gene: Oxtober96_42 Start: 31119, Stop: 29731, Start Num: 138

Candidate Starts for Oxtober96_42:

(2, 31770), (31, 31416), (52, 31341), (Start: 138 @31119 has 140 MA's), (181, 30975), (Start: 183 @30969 has 1 MA's), (184, 30966), (221, 30852), (229, 30825), (243, 30765), (251, 30738), (252, 30735), (272, 30639), (280, 30597), (323, 30426), (328, 30405), (339, 30378), (348, 30330), (373, 30270), (424, 30111), (440, 30057), (459, 29973), (460, 29967), (464, 29955), (481, 29859), (497, 29805), (498, 29802), (504, 29778),

Gene: PHTowN_70 Start: 50156, Stop: 48270, Start Num: 17

Candidate Starts for PHTowN_70:

(10, 50216), (Start: 17 @50156 has 8 MA's), (Start: 22 @50141 has 31 MA's), (27, 50078), (28, 50069), (30, 50057), (58, 49964), (77, 49901), (83, 49883), (Start: 113 @49826 has 1 MA's), (123, 49802), (164, 49643), (177, 49604), (181, 49595), (215, 49487), (241, 49379), (265, 49274), (283, 49175), (292, 49115), (316, 49028), (317, 49025), (344, 48920), (346, 48911), (350, 48899), (381, 48800), (396, 48761), (419, 48683), (424, 48671), (433, 48644), (451, 48554), (455, 48539), (468, 48485), (479, 48428), (515, 48302),

Gene: PSirce_39 Start: 31102, Stop: 29690, Start Num: 141

Candidate Starts for PSirce_39:

(Start: 140 @31105 has 10 MA's), (Start: 141 @31102 has 21 MA's), (Start: 147 @31072 has 27 MA's), (Start: 149 @31066 has 1 MA's), (159, 31033), (221, 30841), (229, 30814), (243, 30754), (251, 30727), (252, 30724), (258, 30682), (266, 30658), (272, 30628), (280, 30586), (323, 30415), (328, 30394), (335, 30379), (339, 30367), (341, 30355), (342, 30352), (344, 30334), (362, 30253), (373, 30217), (391, 30163), (402, 30121), (414, 30091), (420, 30067), (423, 30061), (437, 30022), (438, 30019), (450, 29950), (457, 29926), (459, 29920), (460, 29914), (464, 29902), (481, 29806), (484, 29797), (490, 29779), (492, 29767), (505, 29722),

Gene: Pajaza_37 Start: 29766, Stop: 28396, Start Num: 141

Candidate Starts for Pajaza_37:

(Start: 141 @29766 has 21 MA's), (176, 29637), (185, 29616), (221, 29505), (222, 29502), (242, 29418), (243, 29412), (248, 29400), (252, 29382), (255, 29361), (272, 29286), (279, 29253), (319, 29082), (321, 29079), (323, 29073), (324, 29070), (335, 29037), (348, 28977), (373, 28917), (375, 28911), (376, 28908), (377, 28905), (402, 28821), (442, 28689), (450, 28650), (457, 28626), (459, 28620), (464, 28602), (481, 28506), (490, 28479), (492, 28467), (502, 28434), (505, 28422),

Gene: Papafritta_40 Start: 30824, Stop: 29436, Start Num: 138

Candidate Starts for Papafritta_40:

(31, 31121), (52, 31046), (Start: 138 @30824 has 140 MA's), (181, 30680), (Start: 183 @30674 has 1 MA's), (184, 30671), (221, 30557), (229, 30530), (243, 30470), (251, 30443), (252, 30440), (272, 30344), (280, 30302), (323, 30131), (328, 30110), (335, 30095), (348, 30035), (365, 30002), (373, 29975), (404, 29879), (424, 29816), (440, 29762), (459, 29678), (460, 29672), (464, 29660), (481, 29564), (497, 29510), (498, 29507), (504, 29483),

Gene: ParleG_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for ParleG_41:

(2, 31772), (31, 31418), (52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (319, 30437), (323, 30428), (328, 30407), (335, 30392), (339, 30380), (348, 30332), (373, 30272), (404, 30176), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: PatrickStar_58 Start: 50421, Stop: 48931, Start Num: 124

Candidate Starts for PatrickStar_58:

(Start: 124 @50421 has 5 MA's), (150, 50328), (153, 50319), (156, 50307), (160, 50292), (165, 50274), (184, 50217), (204, 50145), (205, 50142), (230, 50049), (239, 50016), (251, 49983), (252, 49980), (255, 49959), (272, 49890), (282, 49854), (299, 49767), (320, 49704), (322, 49701), (327, 49671), (345, 49599), (347, 49590), (384, 49467), (386, 49461), (438, 49329), (445, 49287), (454, 49242), (462, 49212), (523, 48960),

Gene: Peep_41 Start: 31106, Stop: 29718, Start Num: 138

Candidate Starts for Peep_41:

(52, 31328), (118, 31166), (Start: 138 @31106 has 140 MA's), (181, 30962), (Start: 183 @30956 has 1 MA's), (184, 30953), (221, 30839), (229, 30812), (243, 30752), (251, 30725), (252, 30722), (272, 30626), (280, 30584), (323, 30413), (328, 30392), (335, 30377), (339, 30365), (348, 30317), (373, 30257), (404, 30161), (424, 30098), (440, 30044), (459, 29960), (460, 29954), (464, 29942), (481, 29846), (497, 29792), (498, 29789), (504, 29765),

Gene: Peppino_40 Start: 31250, Stop: 29859, Start Num: 138

Candidate Starts for Peppino_40:

(86, 31364), (129, 31280), (Start: 138 @31250 has 140 MA's), (181, 31103), (Start: 183 @31097 has 1 MA's), (184, 31094), (221, 30980), (229, 30953), (243, 30893), (251, 30866), (252, 30863), (272, 30767), (280, 30725), (323, 30554), (328, 30533), (339, 30506), (373, 30398), (404, 30302), (440, 30185), (443, 30167), (459, 30101), (460, 30095), (481, 29987), (497, 29933), (498, 29930), (504, 29906), (513, 29876),

Gene: Phanita_39 Start: 30844, Stop: 29468, Start Num: 149

Candidate Starts for Phanita_39:

(Start: 140 @30883 has 10 MA's), (Start: 141 @30880 has 21 MA's), (Start: 147 @30850 has 27 MA's), (Start: 149 @30844 has 1 MA's), (159, 30811), (221, 30619), (229, 30592), (243, 30532), (251, 30505), (252, 30502), (258, 30460), (272, 30406), (280, 30364), (303, 30250), (323, 30193), (328,

30172), (339, 30145), (341, 30133), (342, 30130), (344, 30112), (362, 30031), (373, 29995), (391, 29941), (402, 29899), (414, 29869), (420, 29845), (423, 29839), (438, 29797), (450, 29728), (457, 29704), (459, 29698), (460, 29692), (464, 29680), (490, 29557), (492, 29545), (505, 29500),

Gene: Pharpay_40 Start: 25956, Stop: 27863, Start Num: 22

Candidate Starts for Pharpay_40:

(Start: 22 @25956 has 31 MA's), (27, 26019), (30, 26040), (45, 26094), (Start: 113 @26271 has 1 MA's), (130, 26316), (177, 26490), (181, 26499), (210, 26589), (224, 26646), (266, 26832), (290, 26967), (292, 26979), (300, 27012), (339, 27141), (371, 27258), (393, 27333), (450, 27567), (451, 27570), (465, 27630), (483, 27720), (492, 27750), (504, 27792), (520, 27843),

Gene: Pherbot_39 Start: 30554, Stop: 29172, Start Num: 140

Candidate Starts for Pherbot_39:

(131, 30581), (Start: 140 @30554 has 10 MA's), (Start: 141 @30551 has 21 MA's), (Start: 147 @30521 has 27 MA's), (181, 30413), (Start: 183 @30407 has 1 MA's), (184, 30404), (189, 30389), (243, 30203), (246, 30194), (252, 30173), (258, 30131), (272, 30077), (323, 29864), (328, 29843), (335, 29828), (339, 29816), (342, 29801), (349, 29765), (352, 29756), (362, 29741), (373, 29705), (404, 29606), (424, 29543), (433, 29516), (449, 29441), (450, 29435), (453, 29426), (457, 29411), (459, 29405), (460, 29399), (464, 29387), (490, 29264), (492, 29252),

Gene: Pherferi_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Pherferi_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Phiderman_41 Start: 31111, Stop: 29723, Start Num: 138

Candidate Starts for Phiderman_41:

(2, 31762), (31, 31408), (52, 31333), (Start: 138 @31111 has 140 MA's), (181, 30967), (Start: 183 @30961 has 1 MA's), (184, 30958), (221, 30844), (229, 30817), (243, 30757), (251, 30730), (252, 30727), (272, 30631), (280, 30589), (319, 30427), (323, 30418), (328, 30397), (335, 30382), (339, 30370), (348, 30322), (373, 30262), (404, 30166), (424, 30103), (440, 30049), (459, 29965), (460, 29959), (464, 29947), (481, 29851), (497, 29797), (498, 29794), (504, 29770),

Gene: Philon9_55 Start: 53812, Stop: 52235, Start Num: 78

Candidate Starts for Philon9_55:

(Start: 36 @53944 has 6 MA's), (Start: 40 @53932 has 2 MA's), (Start: 78 @53812 has 1 MA's), (Start: 101 @53779 has 2 MA's), (Start: 114 @53749 has 2 MA's), (117, 53743), (150, 53635), (160, 53599), (165, 53575), (168, 53566), (170, 53557), (Start: 183 @53509 has 1 MA's), (184, 53506), (186, 53500), (187, 53497), (228, 53374), (232, 53353), (251, 53293), (267, 53221), (272, 53200), (275, 53185), (276, 53182), (280, 53173), (320, 53014), (334, 52963), (338, 52951), (339, 52945), (343, 52924), (354, 52879), (365, 52834), (378, 52792), (389, 52735), (398, 52705), (399, 52702), (400, 52699), (421, 52645), (457, 52522), (462, 52504), (483, 52387), (484, 52384), (488, 52372), (525, 52252),

Gene: Phireproof_41 Start: 31120, Stop: 29732, Start Num: 138

Candidate Starts for Phireproof_41:

(52, 31342), (Start: 138 @31120 has 140 MA's), (181, 30976), (Start: 183 @30970 has 1 MA's), (184, 30967), (221, 30853), (229, 30826), (243, 30766), (251, 30739), (252, 30736), (272, 30640), (280, 30598), (319, 30436), (323, 30427), (328, 30406), (335, 30391), (339, 30379), (348, 30331), (373, 30271), (404, 30175), (424, 30112), (440, 30058), (459, 29974), (460, 29968), (464, 29956), (481, 29860), (497, 29806), (498, 29803), (504, 29779),

Gene: PhredFlintston_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for PhredFlintston_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Phriends_41 Start: 31120, Stop: 29732, Start Num: 138

Candidate Starts for Phriends_41:

(52, 31342), (Start: 138 @31120 has 140 MA's), (181, 30976), (Start: 183 @30970 has 1 MA's), (184, 30967), (221, 30853), (229, 30826), (243, 30766), (251, 30739), (252, 30736), (254, 30730), (272, 30640), (280, 30598), (323, 30427), (335, 30391), (339, 30379), (344, 30346), (348, 30331), (373, 30271), (404, 30175), (424, 30112), (440, 30058), (459, 29974), (460, 29968), (464, 29956), (481, 29860), (497, 29806), (498, 29803), (504, 29779),

Gene: PhunaPhoke_40 Start: 25929, Stop: 27836, Start Num: 22

Candidate Starts for PhunaPhoke_40:

(Start: 22 @25929 has 31 MA's), (27, 25992), (30, 26013), (45, 26067), (Start: 113 @26244 has 1 MA's), (130, 26289), (177, 26463), (181, 26472), (210, 26562), (224, 26619), (266, 26805), (290, 26940), (292, 26952), (300, 26985), (339, 27114), (371, 27231), (393, 27306), (450, 27540), (451, 27543), (465, 27603), (483, 27693), (492, 27723), (504, 27765), (520, 27816),

Gene: PierreThree_58 Start: 52668, Stop: 51259, Start Num: 147

Candidate Starts for PierreThree_58:

(26, 53046), (34, 52995), (47, 52944), (66, 52890), (76, 52860), (Start: 89 @52827 has 3 MA's), (97, 52818), (Start: 108 @52791 has 25 MA's), (Start: 147 @52668 has 27 MA's), (160, 52623), (170, 52581), (Start: 183 @52533 has 1 MA's), (184, 52530), (186, 52524), (187, 52521), (190, 52509), (192, 52503), (209, 52455), (210, 52452), (247, 52332), (253, 52314), (266, 52251), (272, 52227), (275, 52212), (295, 52119), (320, 52041), (336, 51981), (338, 51978), (340, 51969), (343, 51951), (353, 51909), (365, 51864), (371, 51846), (400, 51729), (403, 51714), (409, 51693), (444, 51612), (445, 51609), (457, 51552), (459, 51546), (462, 51534), (473, 51483), (476, 51468), (477, 51459), (483, 51420), (487, 51408), (515, 51312), (518, 51297),

Gene: Pikmin_37 Start: 29766, Stop: 28396, Start Num: 141

Candidate Starts for Pikmin_37:

(Start: 141 @29766 has 21 MA's), (176, 29637), (185, 29616), (221, 29505), (222, 29502), (242, 29418), (243, 29412), (248, 29400), (252, 29382), (255, 29361), (272, 29286), (279, 29253), (319, 29082), (321, 29079), (323, 29073), (324, 29070), (335, 29037), (348, 28977), (373, 28917), (375, 28911), (376, 28908), (377, 28905), (402, 28821), (442, 28689), (450, 28650), (457, 28626), (459, 28620), (464, 28602), (481, 28506), (490, 28479), (492, 28467), (502, 28434), (505, 28422),

Gene: Pocket_40 Start: 30843, Stop: 29422, Start Num: 138

Candidate Starts for Pocket_40:

(52, 31065), (Start: 138 @30843 has 140 MA's), (181, 30699), (Start: 183 @30693 has 1 MA's), (184, 30690), (221, 30576), (229, 30549), (243, 30489), (251, 30462), (252, 30459), (272, 30363), (280, 30321), (319, 30159), (323, 30150), (328, 30129), (339, 30102), (344, 30069), (348, 30054), (368, 29979), (373, 29961), (404, 29865), (424, 29802), (440, 29748), (459, 29664), (460, 29658), (464, 29646), (478, 29571), (481, 29550), (497, 29496), (498, 29493), (504, 29469),

Gene: PokyPuppy_58 Start: 52764, Stop: 51256, Start Num: 120

Candidate Starts for PokyPuppy_58:

(26, 53043), (34, 52992), (47, 52941), (63, 52893), (66, 52887), (76, 52857), (Start: 89 @52824 has 3 MA's), (97, 52815), (Start: 108 @52788 has 25 MA's), (Start: 120 @52764 has 1 MA's), (Start: 147 @52665 has 27 MA's), (160, 52620), (170, 52578), (Start: 183 @52530 has 1 MA's), (184, 52527), (186, 52521), (187, 52518), (192, 52500), (209, 52452), (247, 52329), (253, 52311), (272, 52224), (275, 52209), (295, 52116), (302, 52089), (320, 52038), (336, 51978), (338, 51975), (340, 51966), (343, 51948), (353, 51906), (365, 51861), (400, 51726), (403, 51711), (409, 51690), (440, 51633), (445, 51606), (457, 51549), (459, 51543), (462, 51531), (473, 51480), (477, 51456), (483, 51417), (487, 51405), (488, 51402), (515, 51309), (518, 51294),

Gene: Poland_64 Start: 54025, Stop: 52493, Start Num: 108

Candidate Starts for Poland_64:

(26, 54280), (34, 54229), (66, 54124), (76, 54094), (Start: 89 @54061 has 3 MA's), (97, 54052), (Start: 108 @54025 has 25 MA's), (160, 53857), (170, 53815), (176, 53797), (Start: 183 @53767 has 1 MA's), (187, 53755), (190, 53743), (192, 53737), (197, 53716), (253, 53548), (272, 53461), (275, 53446), (280, 53434), (287, 53404), (295, 53353), (320, 53275), (325, 53251), (330, 53233), (336, 53215), (338, 53212), (340, 53203), (343, 53185), (353, 53143), (365, 53098), (371, 53080), (400, 52963), (403, 52948), (409, 52927), (444, 52846), (445, 52843), (457, 52786), (459, 52780), (462, 52768), (477, 52693), (483, 52654), (487, 52642), (488, 52639), (515, 52546), (518, 52531),

Gene: Pons_58 Start: 40779, Stop: 39301, Start Num: 109

Candidate Starts for Pons_58:

(69, 40860), (95, 40806), (Start: 109 @40779 has 35 MA's), (134, 40716), (144, 40689), (Start: 149 @40662 has 1 MA's), (161, 40608), (168, 40587), (169, 40584), (177, 40557), (Start: 183 @40545 has 1 MA's), (214, 40452), (252, 40329), (261, 40275), (263, 40269), (266, 40263), (281, 40185), (285, 40170), (302, 40080), (304, 40071), (313, 40044), (332, 39981), (335, 39972), (339, 39960), (343, 39939), (345, 39924), (347, 39915), (354, 39894), (369, 39855), (372, 39846), (376, 39831), (414, 39711), (415, 39708), (427, 39666), (433, 39648), (453, 39552), (465, 39501), (472, 39471), (478, 39438), (491, 39381), (496, 39366),

Gene: PotPie_56 Start: 41318, Stop: 39840, Start Num: 109

Candidate Starts for PotPie_56:

(67, 41396), (93, 41345), (95, 41342), (Start: 109 @41318 has 35 MA's), (134, 41255), (142, 41234), (144, 41228), (Start: 149 @41201 has 1 MA's), (161, 41147), (172, 41111), (177, 41096), (211, 41000), (214, 40991), (219, 40970), (236, 40904), (252, 40868), (261, 40814), (263, 40808), (266, 40802), (281, 40724), (285, 40709), (304, 40610), (326, 40535), (335, 40511), (339, 40499), (343, 40478), (345, 40463), (347, 40454), (354, 40433), (369, 40394), (372, 40385), (376, 40370), (394, 40319), (414, 40250), (415, 40247), (427, 40205), (433, 40187), (453, 40091), (465, 40040), (472, 40010), (478, 39977), (491, 39920), (496, 39905),

Gene: Potty_40 Start: 25934, Stop: 27841, Start Num: 22

Candidate Starts for Potty_40:

(Start: 22 @25934 has 31 MA's), (27, 25997), (30, 26018), (45, 26072), (Start: 113 @26249 has 1 MA's), (130, 26294), (177, 26468), (181, 26477), (210, 26567), (224, 26624), (266, 26810), (290, 26945), (292, 26957), (300, 26990), (339, 27119), (371, 27236), (393, 27311), (450, 27545), (451, 27548), (465, 27608), (483, 27698), (492, 27728), (504, 27770), (520, 27821),

Gene: Poultruss_39 Start: 26280, Stop: 28187, Start Num: 22

Candidate Starts for Poultruss_39:

(Start: 22 @26280 has 31 MA's), (27, 26343), (30, 26364), (45, 26418), (Start: 113 @26595 has 1 MA's), (130, 26640), (177, 26814), (181, 26823), (210, 26913), (224, 26970), (266, 27156), (290, 27291), (292, 27303), (300, 27336), (339, 27465), (371, 27582), (451, 27894), (465, 27954), (483, 28044), (492, 28074), (504, 28116), (520, 28167),

Gene: PrincePhergus_39 Start: 30573, Stop: 29191, Start Num: 140

Candidate Starts for PrincePhergus_39:

(131, 30600), (Start: 140 @30573 has 10 MA's), (Start: 141 @30570 has 21 MA's), (Start: 147 @30540 has 27 MA's), (181, 30432), (Start: 183 @30426 has 1 MA's), (184, 30423), (189, 30408), (241, 30231), (243, 30222), (246, 30213), (252, 30192), (258, 30150), (272, 30096), (323, 29883), (328, 29862), (335, 29847), (339, 29835), (342, 29820), (349, 29784), (352, 29775), (362, 29760), (373, 29724), (404, 29625), (424, 29562), (433, 29535), (449, 29460), (450, 29454), (453, 29445), (457, 29430), (459, 29424), (460, 29418), (464, 29406), (490, 29283), (492, 29271),

Gene: PsychoKiller_52 Start: 38727, Stop: 37249, Start Num: 109

Candidate Starts for PsychoKiller_52:

(Start: 109 @38727 has 35 MA's), (142, 38640), (144, 38634), (161, 38553), (168, 38532), (211, 38409), (212, 38406), (261, 38223), (263, 38217), (266, 38211), (281, 38133), (304, 38019), (313, 37992), (323, 37968), (339, 37908), (347, 37863), (354, 37842), (369, 37803), (374, 37785), (413, 37668), (427, 37620), (428, 37617), (433, 37602), (453, 37506), (459, 37485), (465, 37455),

Gene: PuppyEggo_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for PuppyEggo_41:

(2, 31772), (31, 31418), (52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (323, 30428), (328, 30407), (339, 30380), (348, 30332), (373, 30272), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: QuadZero_39 Start: 29101, Stop: 27674, Start Num: 138

Candidate Starts for QuadZero_39:

(116, 29158), (Start: 138 @29101 has 140 MA's), (146, 29071), (Start: 147 @29065 has 27 MA's), (Start: 183 @28951 has 1 MA's), (184, 28948), (185, 28945), (251, 28711), (252, 28708), (303, 28453), (321, 28402), (323, 28396), (339, 28348), (344, 28315), (348, 28300), (373, 28201), (391, 28147), (393, 28141), (401, 28114), (424, 28042), (443, 27970), (450, 27934), (453, 27925), (457, 27910), (459, 27904), (464, 27886), (472, 27844), (484, 27781), (504, 27709),

Gene: Quartz_40 Start: 30748, Stop: 29336, Start Num: 141

Candidate Starts for Quartz_40:

(Start: 140 @30751 has 10 MA's), (Start: 141 @30748 has 21 MA's), (Start: 147 @30718 has 27 MA's), (Start: 149 @30712 has 1 MA's), (159, 30679), (Start: 183 @30604 has 1 MA's), (185, 30598), (221, 30487), (229, 30460), (241, 30409), (243, 30400), (251, 30373), (252, 30370), (258, 30328), (272, 30274), (303, 30118), (321, 30067), (323, 30061), (328, 30040), (332, 30034), (335, 30025), (339, 30013), (341, 30001), (359, 29923), (373, 29863), (375, 29857), (391, 29809), (402, 29767), (424, 29704), (429, 29692), (437, 29668), (438, 29665), (450, 29596), (453, 29587), (457, 29572), (459, 29566), (460, 29560), (464, 29548), (484, 29443), (490, 29425), (492, 29413), (505, 29368),

Gene: Quasar_53 Start: 39431, Stop: 37953, Start Num: 109

Candidate Starts for Quasar_53:

(Start: 109 @39431 has 35 MA's), (142, 39344), (144, 39338), (168, 39236), (211, 39113), (212, 39110), (261, 38927), (263, 38921), (266, 38915), (281, 38837), (304, 38723), (313, 38696), (323, 38672), (339, 38612), (347, 38567), (354, 38546), (369, 38507), (374, 38489), (413, 38372), (427, 38324), (428, 38321), (433, 38306), (453, 38210), (459, 38189), (465, 38159),

Gene: Raccoon_40 Start: 31223, Stop: 29832, Start Num: 138

Candidate Starts for Raccoon_40:

(83, 31325), (85, 31322), (87, 31319), (Start: 138 @31223 has 140 MA's), (181, 31076), (Start: 183 @31070 has 1 MA's), (184, 31067), (221, 30953), (229, 30926), (243, 30866), (251, 30839), (252,

30836), (272, 30740), (280, 30698), (323, 30527), (328, 30506), (339, 30479), (373, 30371), (404, 30275), (440, 30158), (443, 30140), (459, 30074), (460, 30068), (464, 30056), (481, 29960), (497, 29906), (498, 29903), (504, 29879), (513, 29849),

Gene: Rachella_40 Start: 25937, Stop: 27844, Start Num: 22

Candidate Starts for Rachella_40:

(Start: 22 @25937 has 31 MA's), (27, 26000), (30, 26021), (45, 26075), (Start: 113 @26252 has 1 MA's), (130, 26297), (177, 26471), (181, 26480), (210, 26570), (224, 26627), (266, 26813), (290, 26948), (292, 26960), (300, 26993), (339, 27122), (371, 27239), (393, 27314), (450, 27548), (451, 27551), (465, 27611), (483, 27701), (492, 27731), (504, 27773), (520, 27824),

Gene: RanchParmCat_57 Start: 39886, Stop: 38411, Start Num: 112

Candidate Starts for RanchParmCat_57:

(Start: 112 @39886 has 12 MA's), (128, 39844), (144, 39796), (Start: 149 @39769 has 1 MA's), (157, 39739), (161, 39715), (168, 39694), (170, 39685), (172, 39679), (Start: 183 @39652 has 1 MA's), (201, 39595), (204, 39586), (212, 39568), (214, 39562), (252, 39439), (261, 39385), (263, 39379), (266, 39373), (279, 39310), (281, 39295), (285, 39280), (332, 39091), (335, 39082), (343, 39049), (352, 39010), (355, 39001), (369, 38965), (374, 38947), (376, 38941), (392, 38896), (394, 38890), (414, 38821), (428, 38773), (433, 38758), (441, 38716), (453, 38662), (462, 38629), (465, 38611), (478, 38548), (490, 38500), (492, 38488), (495, 38479), (511, 38422),

Gene: Rapheph_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Rapheph_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (319, 30430), (323, 30421), (328, 30400), (335, 30385), (339, 30373), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Raptor_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for Raptor_41:

(52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (323, 30428), (328, 30407), (335, 30392), (339, 30380), (348, 30332), (373, 30272), (404, 30176), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (478, 29882), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: Rasputia_111 Start: 69328, Stop: 71340, Start Num: 7

Candidate Starts for Rasputia_111:

(Start: 7 @69328 has 4 MA's), (35, 69541), (38, 69556), (39, 69559), (51, 69595), (59, 69616), (61, 69628), (80, 69682), (139, 69802), (171, 69931), (195, 70009), (223, 70105), (235, 70150), (240, 70171), (247, 70195), (252, 70219), (258, 70264), (265, 70285), (272, 70330), (278, 70360), (295, 70456), (299, 70471), (301, 70483), (308, 70510), (311, 70522), (318, 70540), (335, 70594), (344, 70639), (348, 70654), (371, 70723), (389, 70777), (397, 70801), (401, 70810), (414, 70855), (415, 70858), (438, 70930), (443, 70972), (448, 70999), (451, 71014), (452, 71017), (458, 71038), (486, 71176), (491, 71203), (504, 71248), (527, 71329),

Gene: RedBaron_56 Start: 39388, Stop: 37904, Start Num: 106

Candidate Starts for RedBaron_56:

(Start: 106 @39388 has 1 MA's), (Start: 112 @39379 has 12 MA's), (134, 39316), (142, 39295), (144, 39289), (161, 39208), (168, 39187), (211, 39064), (212, 39061), (254, 38926), (261, 38878), (263, 38872), (266, 38866), (281, 38788), (304, 38674), (313, 38647), (323, 38623), (339, 38563), (347, 38518), (354, 38497), (369, 38458), (374, 38440), (413, 38323), (427, 38275), (428, 38272), (433,

38257), (453, 38161), (459, 38140), (465, 38110),

Gene: Redfield_40 Start: 31255, Stop: 29864, Start Num: 138

Candidate Starts for Redfield_40:

(83, 31357), (85, 31354), (87, 31351), (Start: 138 @31255 has 140 MA's), (181, 31108), (Start: 183 @31102 has 1 MA's), (184, 31099), (221, 30985), (229, 30958), (243, 30898), (251, 30871), (252, 30868), (272, 30772), (280, 30730), (323, 30559), (328, 30538), (339, 30511), (373, 30403), (404, 30307), (440, 30190), (443, 30172), (459, 30106), (460, 30100), (464, 30088), (481, 29992), (497, 29938), (498, 29935), (504, 29911), (513, 29881),

Gene: RemRem_60 Start: 51466, Stop: 49934, Start Num: 108

Candidate Starts for RemRem_60:

(26, 51721), (34, 51670), (47, 51619), (66, 51565), (76, 51535), (Start: 89 @51502 has 3 MA's), (97, 51493), (Start: 108 @51466 has 25 MA's), (160, 51298), (170, 51256), (Start: 183 @51208 has 1 MA's), (187, 51196), (190, 51184), (192, 51178), (197, 51157), (209, 51130), (253, 50989), (272, 50902), (275, 50887), (280, 50875), (287, 50845), (295, 50794), (302, 50767), (320, 50716), (330, 50674), (336, 50656), (338, 50653), (343, 50626), (353, 50584), (365, 50539), (400, 50404), (403, 50389), (409, 50368), (440, 50311), (444, 50287), (445, 50284), (457, 50227), (459, 50221), (460, 50215), (462, 50209), (473, 50158), (477, 50134), (483, 50095), (487, 50083), (488, 50080), (515, 49987), (518, 49972), (525, 49951),

Gene: RenegadeRaider_42 Start: 30486, Stop: 29236, Start Num: 181

Candidate Starts for RenegadeRaider_42:

(75, 30789), (95, 30744), (Start: 108 @30714 has 25 MA's), (131, 30660), (Start: 135 @30642 has 2 MA's), (Start: 140 @30630 has 10 MA's), (Start: 141 @30624 has 21 MA's), (Start: 147 @30594 has 27 MA's), (181, 30486), (Start: 183 @30480 has 1 MA's), (184, 30477), (189, 30462), (243, 30276), (246, 30267), (252, 30246), (258, 30204), (272, 30150), (323, 29937), (328, 29916), (335, 29901), (339, 29889), (342, 29874), (349, 29838), (352, 29829), (362, 29814), (373, 29778), (404, 29679), (424, 29616), (433, 29589), (449, 29514), (450, 29508), (453, 29499), (457, 29484), (459, 29478), (460, 29472), (490, 29337), (492, 29325), (515, 29250),

Gene: Renzie_41 Start: 31109, Stop: 29721, Start Num: 138

Candidate Starts for Renzie_41:

(52, 31331), (Start: 138 @31109 has 140 MA's), (181, 30965), (Start: 183 @30959 has 1 MA's), (184, 30956), (221, 30842), (229, 30815), (243, 30755), (251, 30728), (252, 30725), (272, 30629), (280, 30587), (323, 30416), (328, 30395), (335, 30380), (339, 30368), (348, 30320), (373, 30260), (404, 30164), (424, 30101), (440, 30047), (459, 29963), (460, 29957), (464, 29945), (478, 29870), (481, 29849), (497, 29795), (498, 29792), (504, 29768),

Gene: Reynauld_56 Start: 50676, Stop: 49183, Start Num: 126

Candidate Starts for Reynauld_56:

(Start: 126 @50676 has 3 MA's), (Start: 136 @50640 has 4 MA's), (145, 50607), (Start: 147 @50598 has 27 MA's), (150, 50589), (153, 50580), (155, 50571), (160, 50553), (178, 50493), (Start: 183 @50481 has 1 MA's), (186, 50472), (233, 50325), (251, 50268), (255, 50244), (270, 50181), (295, 50067), (318, 49992), (320, 49989), (325, 49965), (330, 49947), (338, 49926), (344, 49887), (347, 49875), (348, 49872), (398, 49695), (408, 49659), (462, 49446), (471, 49404), (481, 49338), (501, 49263), (505, 49248),

Gene: Rie18_40 Start: 25493, Stop: 27400, Start Num: 22

Candidate Starts for Rie18_40:

(4, 25319), (Start: 22 @25493 has 31 MA's), (27, 25556), (30, 25577), (45, 25631), (104, 25793), (Start: 113 @25808 has 1 MA's), (130, 25853), (177, 26027), (181, 26036), (210, 26126), (211, 26129), (221, 26168), (224, 26183), (257, 26333), (266, 26369), (288, 26477), (290, 26504), (292, 26516),

(300, 26549), (339, 26678), (371, 26795), (451, 27107), (465, 27167), (483, 27257), (492, 27287), (494, 27293), (504, 27329), (520, 27380),

Gene: RikSengupta_42 Start: 26725, Stop: 28659, Start Num: 23

Candidate Starts for RikSengupta_42:

(Start: 8 @26629 has 1 MA's), (21, 26719), (Start: 23 @26725 has 3 MA's), (45, 26872), (50, 26890), (Start: 113 @27049 has 1 MA's), (152, 27175), (177, 27265), (181, 27274), (210, 27364), (221, 27406), (226, 27436), (256, 27568), (292, 27754), (296, 27772), (300, 27787), (317, 27844), (335, 27904), (352, 27976), (383, 28093), (388, 28114), (407, 28180), (414, 28210), (439, 28288), (451, 28366), (465, 28426), (474, 28465), (483, 28516), (490, 28534), (522, 28642),

Gene: Riyhil_41 Start: 31124, Stop: 29736, Start Num: 138

Candidate Starts for Riyhil_41:

(52, 31346), (Start: 138 @31124 has 140 MA's), (181, 30980), (Start: 183 @30974 has 1 MA's), (184, 30971), (221, 30857), (229, 30830), (243, 30770), (251, 30743), (252, 30740), (272, 30644), (280, 30602), (323, 30431), (328, 30410), (335, 30395), (339, 30383), (348, 30335), (373, 30275), (404, 30179), (424, 30116), (440, 30062), (459, 29978), (460, 29972), (464, 29960), (481, 29864), (497, 29810), (498, 29807), (504, 29783),

Gene: RobinSparkles_61 Start: 50974, Stop: 49484, Start Num: 124

Candidate Starts for RobinSparkles_61:

(Start: 124 @50974 has 5 MA's), (150, 50881), (153, 50872), (156, 50860), (160, 50845), (165, 50827), (184, 50770), (204, 50698), (205, 50695), (230, 50602), (239, 50569), (251, 50536), (252, 50533), (255, 50512), (272, 50443), (282, 50407), (299, 50320), (320, 50257), (322, 50254), (327, 50224), (345, 50152), (347, 50143), (384, 50020), (386, 50014), (438, 49882), (445, 49840), (454, 49795), (462, 49765), (523, 49513),

Gene: Robinson_41 Start: 31112, Stop: 29724, Start Num: 138

Candidate Starts for Robinson_41:

(52, 31334), (Start: 138 @31112 has 140 MA's), (181, 30968), (Start: 183 @30962 has 1 MA's), (184, 30959), (221, 30845), (229, 30818), (243, 30758), (251, 30731), (252, 30728), (272, 30632), (280, 30590), (323, 30419), (328, 30398), (335, 30383), (339, 30371), (348, 30323), (373, 30263), (404, 30167), (424, 30104), (440, 30050), (459, 29966), (460, 29960), (464, 29948), (481, 29852), (497, 29798), (498, 29795), (504, 29771),

Gene: Rog141_40 Start: 30803, Stop: 29415, Start Num: 138

Candidate Starts for Rog141_40:

(2, 31454), (31, 31100), (52, 31025), (Start: 138 @30803 has 140 MA's), (181, 30659), (Start: 183 @30653 has 1 MA's), (184, 30650), (221, 30536), (229, 30509), (243, 30449), (251, 30422), (252, 30419), (272, 30323), (280, 30281), (323, 30110), (328, 30089), (335, 30074), (348, 30014), (373, 29954), (404, 29858), (424, 29795), (440, 29741), (459, 29657), (460, 29651), (464, 29639), (481, 29543), (497, 29489), (498, 29486), (504, 29462),

Gene: Rooney_70 Start: 50294, Stop: 48408, Start Num: 17

Candidate Starts for Rooney_70:

(Start: 17 @50294 has 8 MA's), (Start: 22 @50279 has 31 MA's), (27, 50216), (28, 50207), (58, 50102), (71, 50063), (77, 50039), (Start: 113 @49964 has 1 MA's), (123, 49940), (164, 49781), (177, 49742), (181, 49733), (215, 49625), (241, 49517), (254, 49469), (273, 49364), (283, 49313), (292, 49253), (308, 49187), (316, 49166), (317, 49163), (344, 49058), (346, 49049), (350, 49037), (381, 48938), (419, 48821), (424, 48809), (433, 48782), (451, 48692), (455, 48677), (468, 48623), (479, 48566), (508, 48458), (515, 48440),

Gene: RosieMae_42 Start: 30861, Stop: 29473, Start Num: 138

Candidate Starts for RosieMae_42:

(52, 31083), (Start: 138 @30861 has 140 MA's), (181, 30717), (Start: 183 @30711 has 1 MA's), (184, 30708), (219, 30603), (221, 30594), (229, 30567), (243, 30507), (251, 30480), (252, 30477), (272, 30381), (280, 30339), (323, 30168), (328, 30147), (335, 30132), (348, 30072), (373, 30012), (404, 29916), (424, 29853), (440, 29799), (459, 29715), (460, 29709), (464, 29697), (481, 29601), (497, 29547), (498, 29544), (504, 29520),

Gene: RoyalG_59 Start: 52241, Stop: 50709, Start Num: 108

Candidate Starts for RoyalG_59:

(26, 52496), (34, 52445), (66, 52340), (76, 52310), (Start: 89 @52277 has 3 MA's), (97, 52268), (Start: 108 @52241 has 25 MA's), (Start: 147 @52118 has 27 MA's), (160, 52073), (170, 52031), (Start: 183 @51983 has 1 MA's), (184, 51980), (186, 51974), (187, 51971), (192, 51953), (197, 51932), (209, 51905), (247, 51782), (253, 51764), (272, 51677), (275, 51662), (295, 51569), (320, 51491), (325, 51467), (336, 51431), (343, 51401), (353, 51359), (365, 51314), (400, 51179), (403, 51164), (409, 51143), (445, 51059), (457, 51002), (459, 50996), (462, 50984), (473, 50933), (477, 50909), (483, 50870), (487, 50858), (488, 50855), (515, 50762), (518, 50747),

Gene: SJay_41 Start: 31115, Stop: 29727, Start Num: 138

Candidate Starts for SJay_41:

(2, 31766), (31, 31412), (52, 31337), (Start: 138 @31115 has 140 MA's), (181, 30971), (Start: 183 @30965 has 1 MA's), (184, 30962), (221, 30848), (229, 30821), (243, 30761), (251, 30734), (252, 30731), (272, 30635), (280, 30593), (319, 30431), (323, 30422), (328, 30401), (335, 30386), (339, 30374), (348, 30326), (373, 30266), (404, 30170), (424, 30107), (440, 30053), (459, 29969), (460, 29963), (464, 29951), (478, 29876), (481, 29855), (497, 29801), (498, 29798), (504, 29774),

Gene: Sam12_58 Start: 51466, Stop: 49934, Start Num: 108

Candidate Starts for Sam12_58:

(26, 51721), (34, 51670), (47, 51619), (66, 51565), (76, 51535), (Start: 89 @51502 has 3 MA's), (97, 51493), (Start: 108 @51466 has 25 MA's), (160, 51298), (170, 51256), (Start: 183 @51208 has 1 MA's), (187, 51196), (190, 51184), (192, 51178), (197, 51157), (209, 51130), (253, 50989), (272, 50902), (275, 50887), (280, 50875), (287, 50845), (295, 50794), (302, 50767), (320, 50716), (330, 50674), (336, 50656), (338, 50653), (343, 50626), (353, 50584), (365, 50539), (400, 50404), (403, 50389), (409, 50368), (440, 50311), (444, 50287), (445, 50284), (457, 50227), (459, 50221), (460, 50215), (462, 50209), (473, 50158), (477, 50134), (483, 50095), (487, 50083), (488, 50080), (515, 49987), (518, 49972), (525, 49951),

Gene: Sansa_39 Start: 31177, Stop: 29765, Start Num: 141

Candidate Starts for Sansa_39:

(Start: 141 @31177 has 21 MA's), (Start: 147 @31147 has 27 MA's), (Start: 149 @31141 has 1 MA's), (159, 31108), (221, 30916), (229, 30889), (243, 30829), (251, 30802), (252, 30799), (258, 30757), (272, 30703), (280, 30661), (303, 30547), (323, 30490), (328, 30469), (335, 30454), (339, 30442), (341, 30430), (342, 30427), (344, 30409), (362, 30328), (373, 30292), (391, 30238), (402, 30196), (414, 30166), (417, 30151), (420, 30142), (423, 30136), (438, 30094), (450, 30025), (457, 30001), (459, 29995), (460, 29989), (464, 29977), (484, 29872), (490, 29854), (492, 29842), (505, 29797),

Gene: Saratos_40 Start: 30928, Stop: 29516, Start Num: 141

Candidate Starts for Saratos_40:

(Start: 140 @30931 has 10 MA's), (Start: 141 @30928 has 21 MA's), (Start: 147 @30898 has 27 MA's), (Start: 149 @30892 has 1 MA's), (159, 30859), (221, 30667), (229, 30640), (243, 30580), (251, 30553), (252, 30550), (254, 30544), (258, 30508), (266, 30484), (272, 30454), (280, 30412), (303, 30298), (323, 30241), (328, 30220), (335, 30205), (339, 30193), (341, 30181), (342, 30178), (344, 30160), (362, 30079), (373, 30043), (391, 29989), (402, 29947), (414, 29917), (417, 29902), (420, 29893), (423, 29887), (438, 29845), (450, 29776), (457, 29752), (459, 29746), (460, 29740), (464,

29728), (484, 29623), (490, 29605), (492, 29593), (505, 29548),

Gene: Schimmels22_39 Start: 29851, Stop: 28466, Start Num: 138

Candidate Starts for Schimmels22_39:

(Start: 138 @29851 has 140 MA's), (221, 29575), (228, 29554), (251, 29461), (252, 29458), (255, 29437), (258, 29416), (280, 29320), (323, 29149), (329, 29125), (335, 29113), (339, 29101), (341, 29089), (342, 29086), (344, 29068), (348, 29053), (363, 29026), (373, 28993), (380, 28969), (404, 28897), (414, 28867), (424, 28834), (450, 28726), (453, 28717), (457, 28702), (459, 28696), (460, 28690), (464, 28678), (481, 28582), (484, 28573), (492, 28543), (504, 28501),

Gene: Schnapsidee_40 Start: 31262, Stop: 29871, Start Num: 138

Candidate Starts for Schnapsidee_40:

(83, 31364), (85, 31361), (87, 31358), (Start: 138 @31262 has 140 MA's), (181, 31115), (Start: 183 @31109 has 1 MA's), (184, 31106), (221, 30992), (229, 30965), (243, 30905), (251, 30878), (252, 30875), (272, 30779), (280, 30737), (323, 30566), (328, 30545), (339, 30518), (373, 30410), (404, 30314), (440, 30197), (443, 30179), (459, 30113), (460, 30107), (464, 30095), (481, 29999), (497, 29945), (498, 29942), (504, 29918), (513, 29888),

Gene: Schubert_39 Start: 30441, Stop: 29047, Start Num: 138

Candidate Starts for Schubert_39:

(Start: 138 @30441 has 140 MA's), (181, 30297), (Start: 183 @30291 has 1 MA's), (184, 30288), (185, 30285), (229, 30147), (243, 30087), (252, 30057), (272, 29961), (280, 29919), (302, 29808), (323, 29748), (335, 29712), (339, 29700), (349, 29649), (351, 29643), (373, 29592), (377, 29580), (400, 29508), (402, 29496), (424, 29433), (450, 29325), (457, 29301), (459, 29295), (460, 29289), (464, 29277), (472, 29235), (490, 29154), (492, 29142), (505, 29097),

Gene: Scissor2024_40 Start: 29498, Stop: 28113, Start Num: 138

Candidate Starts for Scissor2024_40:

(Start: 138 @29498 has 140 MA's), (201, 29285), (221, 29222), (228, 29201), (251, 29108), (252, 29105), (255, 29084), (258, 29063), (280, 28967), (323, 28796), (329, 28772), (335, 28760), (339, 28748), (341, 28736), (342, 28733), (344, 28715), (348, 28700), (363, 28673), (373, 28640), (377, 28628), (380, 28616), (404, 28544), (417, 28499), (424, 28481), (450, 28373), (453, 28364), (457, 28349), (459, 28343), (460, 28337), (481, 28229), (484, 28220), (492, 28190), (504, 28148),

Gene: Sedgewig_40 Start: 30801, Stop: 29413, Start Num: 138

Candidate Starts for Sedgewig_40:

(2, 31452), (31, 31098), (52, 31023), (Start: 138 @30801 has 140 MA's), (181, 30657), (Start: 183 @30651 has 1 MA's), (184, 30648), (219, 30543), (221, 30534), (229, 30507), (243, 30447), (251, 30420), (252, 30417), (272, 30321), (280, 30279), (323, 30108), (328, 30087), (335, 30072), (348, 30012), (373, 29952), (404, 29856), (424, 29793), (440, 29739), (459, 29655), (460, 29649), (464, 29637), (497, 29487), (498, 29484), (504, 29460),

Gene: ShaiHulud_42 Start: 31118, Stop: 29730, Start Num: 138

Candidate Starts for ShaiHulud_42:

(2, 31769), (31, 31415), (52, 31340), (Start: 138 @31118 has 140 MA's), (181, 30974), (Start: 183 @30968 has 1 MA's), (184, 30965), (221, 30851), (229, 30824), (243, 30764), (251, 30737), (252, 30734), (272, 30638), (280, 30596), (323, 30425), (328, 30404), (339, 30377), (348, 30329), (373, 30269), (424, 30110), (440, 30056), (459, 29972), (460, 29966), (464, 29954), (481, 29858), (497, 29804), (498, 29801), (504, 29777),

Gene: ShakeNBake_70 Start: 50183, Stop: 48297, Start Num: 17

Candidate Starts for ShakeNBake_70:

(10, 50243), (Start: 17 @50183 has 8 MA's), (Start: 22 @50168 has 31 MA's), (27, 50105), (28, 50096), (30, 50084), (58, 49991), (77, 49928), (83, 49910), (Start: 113 @49853 has 1 MA's), (123, 49829), (164, 49670), (177, 49631), (181, 49622), (215, 49514), (241, 49406), (265, 49301), (283, 49202), (292, 49142), (316, 49055), (317, 49052), (344, 48947), (346, 48938), (350, 48926), (381, 48827), (396, 48788), (419, 48710), (424, 48698), (433, 48671), (451, 48581), (455, 48566), (468, 48512), (479, 48455), (515, 48329),

Gene: Shamu_41 Start: 31107, Stop: 29695, Start Num: 141

Candidate Starts for Shamu_41:

(Start: 140 @31110 has 10 MA's), (Start: 141 @31107 has 21 MA's), (Start: 147 @31077 has 27 MA's), (Start: 149 @31071 has 1 MA's), (159, 31038), (221, 30846), (229, 30819), (243, 30759), (251, 30732), (252, 30729), (258, 30687), (266, 30663), (272, 30633), (280, 30591), (303, 30477), (323, 30420), (328, 30399), (335, 30384), (339, 30372), (341, 30360), (342, 30357), (344, 30339), (362, 30258), (373, 30222), (391, 30168), (402, 30126), (414, 30096), (420, 30072), (423, 30066), (438, 30024), (450, 29955), (457, 29931), (459, 29925), (460, 29919), (464, 29907), (481, 29811), (484, 29802), (490, 29784), (492, 29772), (505, 29727),

Gene: SheckWes_60 Start: 40367, Stop: 38889, Start Num: 109

Candidate Starts for SheckWes_60:

(69, 40448), (95, 40394), (Start: 109 @40367 has 35 MA's), (134, 40304), (142, 40283), (144, 40277), (Start: 149 @40250 has 1 MA's), (161, 40196), (168, 40175), (172, 40160), (177, 40145), (204, 40064), (214, 40040), (236, 39953), (252, 39917), (261, 39863), (263, 39857), (266, 39851), (281, 39773), (285, 39758), (302, 39668), (304, 39659), (313, 39632), (332, 39569), (335, 39560), (339, 39548), (343, 39527), (345, 39512), (347, 39503), (354, 39482), (369, 39443), (372, 39434), (376, 39419), (391, 39377), (400, 39347), (414, 39299), (415, 39296), (427, 39254), (433, 39236), (453, 39140), (465, 39089), (472, 39059), (478, 39026), (491, 38969), (496, 38954),

Gene: Shee_41 Start: 31111, Stop: 29723, Start Num: 138

Candidate Starts for Shee_41:

(2, 31762), (31, 31408), (52, 31333), (Start: 138 @31111 has 140 MA's), (181, 30967), (Start: 183 @30961 has 1 MA's), (184, 30958), (221, 30844), (229, 30817), (243, 30757), (251, 30730), (252, 30727), (272, 30631), (280, 30589), (319, 30427), (323, 30418), (328, 30397), (335, 30382), (339, 30370), (348, 30322), (373, 30262), (404, 30166), (424, 30103), (440, 30049), (459, 29965), (460, 29959), (464, 29947), (481, 29851), (497, 29797), (498, 29794), (504, 29770),

Gene: Shelley_57 Start: 52086, Stop: 50674, Start Num: 147

Candidate Starts for Shelley_57:

(26, 52434), (58, 52305), (Start: 89 @52215 has 3 MA's), (Start: 147 @52086 has 27 MA's), (160, 52041), (Start: 183 @51951 has 1 MA's), (184, 51948), (186, 51942), (192, 51921), (216, 51858), (237, 51780), (247, 51750), (253, 51732), (272, 51645), (275, 51630), (287, 51588), (303, 51507), (320, 51459), (330, 51417), (336, 51399), (338, 51396), (343, 51369), (356, 51318), (365, 51282), (380, 51231), (400, 51147), (406, 51126), (457, 50970), (459, 50964), (462, 50952), (487, 50826), (518, 50712),

Gene: Shrew_71 Start: 40994, Stop: 42517, Start Num: 110

Candidate Starts for Shrew_71:

(88, 40949), (91, 40955), (Start: 110 @40994 has 1 MA's), (128, 41036), (133, 41054), (144, 41087), (155, 41138), (162, 41171), (170, 41198), (181, 41225), (212, 41315), (261, 41531), (262, 41534), (270, 41567), (274, 41585), (289, 41660), (297, 41699), (298, 41705), (344, 41873), (347, 41885), (394, 42023), (407, 42071), (496, 42440), (497, 42443), (504, 42470), (506, 42476),

Gene: SilentWarrior_40 Start: 25182, Stop: 27089, Start Num: 22

Candidate Starts for SilentWarrior_40:

(4, 25008), (Start: 22 @25182 has 31 MA's), (27, 25245), (30, 25266), (45, 25320), (93, 25455), (Start: 113 @25497 has 1 MA's), (130, 25542), (177, 25716), (181, 25725), (210, 25815), (221, 25857), (224, 25872), (266, 26058), (290, 26193), (292, 26205), (300, 26238), (339, 26367), (371, 26484), (444, 26757), (451, 26796), (465, 26856), (483, 26946), (492, 26976), (504, 27018), (520, 27069),

Gene: Sinatra_40 Start: 30565, Stop: 29183, Start Num: 140

Candidate Starts for Sinatra_40:

(131, 30592), (Start: 140 @30565 has 10 MA's), (Start: 141 @30562 has 21 MA's), (Start: 147 @30532 has 27 MA's), (181, 30424), (Start: 183 @30418 has 1 MA's), (184, 30415), (189, 30400), (243, 30214), (246, 30205), (252, 30184), (258, 30142), (272, 30088), (323, 29875), (328, 29854), (335, 29839), (339, 29827), (342, 29812), (349, 29776), (352, 29767), (362, 29752), (373, 29716), (404, 29617), (424, 29554), (433, 29527), (449, 29452), (450, 29446), (453, 29437), (457, 29422), (459, 29416), (460, 29410), (464, 29398), (490, 29275), (492, 29263),

Gene: SirVictor_40 Start: 30629, Stop: 29241, Start Num: 141

Candidate Starts for SirVictor_40:

(Start: 140 @30632 has 10 MA's), (Start: 141 @30629 has 21 MA's), (Start: 147 @30599 has 27 MA's), (181, 30491), (184, 30482), (199, 30428), (228, 30347), (243, 30281), (252, 30251), (259, 30206), (272, 30155), (319, 29951), (323, 29942), (335, 29903), (339, 29891), (341, 29879), (342, 29876), (349, 29840), (352, 29831), (362, 29816), (373, 29780), (377, 29768), (380, 29756), (404, 29681), (424, 29621), (450, 29513), (453, 29504), (457, 29489), (459, 29483), (460, 29477), (515, 29255),

Gene: SketchMex_53 Start: 38648, Stop: 37170, Start Num: 109

Candidate Starts for SketchMex_53:

(Start: 109 @38648 has 35 MA's), (142, 38561), (144, 38555), (155, 38504), (168, 38453), (172, 38438), (201, 38354), (211, 38330), (214, 38321), (252, 38198), (261, 38144), (263, 38138), (266, 38132), (281, 38054), (304, 37940), (313, 37913), (323, 37889), (343, 37808), (347, 37784), (354, 37763), (369, 37724), (374, 37706), (376, 37700), (413, 37589), (415, 37583), (427, 37541), (433, 37523), (450, 37436), (453, 37427), (459, 37406), (465, 37376), (472, 37346), (478, 37313), (501, 37223),

Gene: Snakehole_40 Start: 25114, Stop: 27021, Start Num: 22

Candidate Starts for Snakehole_40:

(Start: 22 @25114 has 31 MA's), (27, 25177), (30, 25198), (45, 25252), (Start: 113 @25429 has 1 MA's), (130, 25474), (177, 25648), (181, 25657), (210, 25747), (224, 25804), (266, 25990), (290, 26125), (292, 26137), (300, 26170), (339, 26299), (371, 26416), (450, 26725), (451, 26728), (465, 26788), (483, 26878), (492, 26908), (504, 26950), (520, 27001),

Gene: Socotra_54 Start: 38839, Stop: 37361, Start Num: 109

Candidate Starts for Socotra_54:

(Start: 109 @38839 has 35 MA's), (142, 38752), (144, 38746), (161, 38665), (168, 38644), (212, 38518), (261, 38335), (263, 38329), (266, 38323), (281, 38245), (304, 38131), (313, 38104), (323, 38080), (339, 38020), (347, 37975), (354, 37954), (369, 37915), (374, 37897), (413, 37780), (427, 37732), (428, 37729), (433, 37714), (453, 37618), (459, 37597), (465, 37567), (511, 37378),

Gene: SoilGremlin_42 Start: 31117, Stop: 29729, Start Num: 138

Candidate Starts for SoilGremlin_42:

(52, 31339), (Start: 138 @31117 has 140 MA's), (181, 30973), (Start: 183 @30967 has 1 MA's), (184, 30964), (221, 30850), (229, 30823), (243, 30763), (251, 30736), (252, 30733), (254, 30727), (272, 30637), (280, 30595), (323, 30424), (335, 30388), (339, 30376), (344, 30343), (348, 30328), (373, 30268), (404, 30172), (424, 30109), (440, 30055), (459, 29971), (460, 29965), (464, 29953), (481, 29857), (497, 29803), (498, 29800), (504, 29776),

Gene: Sombrero_60 Start: 52033, Stop: 50501, Start Num: 108

Candidate Starts for Sombrero_60:

(26, 52288), (34, 52237), (66, 52132), (76, 52102), (Start: 89 @52069 has 3 MA's), (97, 52060), (Start: 108 @52033 has 25 MA's), (160, 51865), (170, 51823), (Start: 183 @51775 has 1 MA's), (187, 51763), (190, 51751), (192, 51745), (197, 51724), (253, 51556), (272, 51469), (275, 51454), (280, 51442), (287, 51412), (295, 51361), (320, 51283), (325, 51259), (330, 51241), (336, 51223), (338, 51220), (340, 51211), (343, 51193), (365, 51106), (400, 50971), (403, 50956), (409, 50935), (444, 50854), (445, 50851), (457, 50794), (459, 50788), (462, 50776), (473, 50725), (477, 50701), (483, 50662), (487, 50650), (488, 50647), (515, 50554), (518, 50539), (525, 50518),

Gene: SonOfLevi_41 Start: 30834, Stop: 29413, Start Num: 138

Candidate Starts for SonOfLevi_41:

(52, 31056), (Start: 138 @30834 has 140 MA's), (181, 30690), (Start: 183 @30684 has 1 MA's), (184, 30681), (221, 30567), (229, 30540), (243, 30480), (251, 30453), (252, 30450), (272, 30354), (280, 30312), (319, 30150), (323, 30141), (328, 30120), (339, 30093), (344, 30060), (348, 30045), (368, 29970), (373, 29952), (404, 29856), (424, 29793), (440, 29739), (459, 29655), (460, 29649), (464, 29637), (478, 29562), (481, 29541), (497, 29487), (498, 29484), (504, 29460),

Gene: Sopespian_50 Start: 38728, Stop: 37250, Start Num: 109

Candidate Starts for Sopespian_50:

(Start: 109 @38728 has 35 MA's), (142, 38641), (144, 38635), (161, 38554), (168, 38533), (211, 38410), (212, 38407), (261, 38224), (263, 38218), (266, 38212), (281, 38134), (304, 38020), (313, 37993), (323, 37969), (339, 37909), (347, 37864), (354, 37843), (369, 37804), (374, 37786), (413, 37669), (427, 37621), (428, 37618), (433, 37603), (453, 37507), (459, 37486), (465, 37456),

Gene: Sparcetus_42 Start: 26604, Stop: 28538, Start Num: 23

Candidate Starts for Sparcetus_42:

(Start: 8 @26508 has 1 MA's), (21, 26598), (Start: 23 @26604 has 3 MA's), (45, 26751), (50, 26769), (Start: 113 @26928 has 1 MA's), (152, 27054), (177, 27144), (181, 27153), (210, 27243), (226, 27315), (256, 27447), (292, 27633), (296, 27651), (300, 27666), (317, 27723), (335, 27783), (352, 27855), (388, 27993), (407, 28059), (414, 28089), (415, 28092), (439, 28167), (451, 28245), (465, 28305), (474, 28344), (483, 28395), (490, 28413), (522, 28521),

Gene: Squibbles_58 Start: 52329, Stop: 50797, Start Num: 108

Candidate Starts for Squibbles_58:

(26, 52584), (34, 52533), (47, 52482), (66, 52428), (76, 52398), (Start: 89 @52365 has 3 MA's), (97, 52356), (Start: 108 @52329 has 25 MA's), (160, 52161), (170, 52119), (Start: 183 @52071 has 1 MA's), (187, 52059), (190, 52047), (192, 52041), (197, 52020), (209, 51993), (253, 51852), (272, 51765), (275, 51750), (280, 51738), (287, 51708), (295, 51657), (302, 51630), (320, 51579), (330, 51537), (336, 51519), (338, 51516), (343, 51489), (353, 51447), (365, 51402), (400, 51267), (403, 51252), (409, 51231), (440, 51174), (445, 51147), (457, 51090), (459, 51084), (460, 51078), (462, 51072), (473, 51021), (477, 50997), (483, 50958), (487, 50946), (488, 50943), (515, 50850), (518, 50835), (525, 50814),

Gene: Stanktossa_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Stanktossa_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (302, 30481), (323, 30421), (335, 30385), (339, 30373), (344, 30340), (348, 30325), (373, 30265), (404, 30169), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Starburst_53 Start: 38723, Stop: 37245, Start Num: 109

Candidate Starts for Starburst_53:

(Start: 109 @38723 has 35 MA's), (142, 38636), (144, 38630), (161, 38549), (168, 38528), (212, 38402), (261, 38219), (263, 38213), (266, 38207), (281, 38129), (304, 38015), (313, 37988), (323, 37964), (339, 37904), (347, 37859), (354, 37838), (369, 37799), (374, 37781), (413, 37664), (427, 37616), (428, 37613), (433, 37598), (453, 37502), (459, 37481), (465, 37451),

Gene: SteamedHams_54 Start: 38292, Stop: 36814, Start Num: 109

Candidate Starts for SteamedHams_54:

(Start: 109 @38292 has 35 MA's), (144, 38199), (Start: 149 @38172 has 1 MA's), (168, 38097), (Start: 183 @38055 has 1 MA's), (211, 37974), (252, 37842), (261, 37788), (266, 37776), (281, 37698), (304, 37584), (313, 37557), (323, 37533), (332, 37494), (347, 37428), (354, 37407), (374, 37350), (413, 37233), (427, 37185), (433, 37167), (453, 37071), (459, 37050), (465, 37020),

Gene: SteveFrench_58 Start: 52481, Stop: 50949, Start Num: 108

Candidate Starts for SteveFrench_58:

(26, 52736), (34, 52685), (66, 52580), (76, 52550), (Start: 89 @52517 has 3 MA's), (97, 52508), (Start: 108 @52481 has 25 MA's), (Start: 147 @52358 has 27 MA's), (160, 52313), (170, 52271), (Start: 183 @52223 has 1 MA's), (184, 52220), (186, 52214), (187, 52211), (192, 52193), (197, 52172), (209, 52145), (247, 52022), (253, 52004), (272, 51917), (275, 51902), (295, 51809), (320, 51731), (325, 51707), (336, 51671), (343, 51641), (353, 51599), (365, 51554), (400, 51419), (403, 51404), (409, 51383), (445, 51299), (457, 51242), (459, 51236), (462, 51224), (473, 51173), (477, 51149), (483, 51110), (487, 51098), (488, 51095), (515, 51002), (518, 50987),

Gene: Sticker17_57 Start: 52601, Stop: 51189, Start Num: 147

Candidate Starts for Sticker17_57:

(26, 52949), (58, 52820), (87, 52733), (Start: 89 @52730 has 3 MA's), (Start: 147 @52601 has 27 MA's), (160, 52556), (Start: 183 @52466 has 1 MA's), (184, 52463), (186, 52457), (192, 52436), (216, 52373), (247, 52265), (253, 52247), (272, 52160), (275, 52145), (287, 52103), (303, 52022), (320, 51974), (330, 51932), (336, 51914), (338, 51911), (343, 51884), (356, 51833), (365, 51797), (380, 51746), (400, 51662), (406, 51641), (457, 51485), (459, 51479), (462, 51467), (487, 51341), (518, 51227),

Gene: StingRay_40 Start: 30819, Stop: 29431, Start Num: 138

Candidate Starts for StingRay_40:

(52, 31041), (Start: 138 @30819 has 140 MA's), (181, 30675), (Start: 183 @30669 has 1 MA's), (184, 30666), (221, 30552), (229, 30525), (243, 30465), (251, 30438), (252, 30435), (272, 30339), (280, 30297), (323, 30126), (328, 30105), (335, 30090), (348, 30030), (365, 29997), (373, 29970), (404, 29874), (424, 29811), (440, 29757), (459, 29673), (460, 29667), (464, 29655), (481, 29559), (497, 29505), (498, 29502), (504, 29478),

Gene: StirfryIV_40 Start: 30812, Stop: 29424, Start Num: 138

Candidate Starts for StirfryIV_40:

(2, 31463), (31, 31109), (52, 31034), (Start: 138 @30812 has 140 MA's), (181, 30668), (Start: 183 @30662 has 1 MA's), (184, 30659), (221, 30545), (229, 30518), (243, 30458), (251, 30431), (252, 30428), (272, 30332), (280, 30290), (323, 30119), (328, 30098), (335, 30083), (348, 30023), (373, 29963), (404, 29867), (424, 29804), (440, 29750), (459, 29666), (460, 29660), (464, 29648), (481, 29552), (497, 29498), (498, 29495), (504, 29471),

Gene: Stormbreaker8_40 Start: 31269, Stop: 29878, Start Num: 138

Candidate Starts for Stormbreaker8_40:

(29, 31557), (35, 31536), (Start: 138 @31269 has 140 MA's), (181, 31122), (Start: 183 @31116 has 1 MA's), (184, 31113), (201, 31053), (221, 30999), (229, 30972), (243, 30912), (251, 30885), (252,

30882), (272, 30786), (280, 30744), (323, 30573), (328, 30552), (373, 30417), (404, 30321), (440, 30204), (443, 30186), (459, 30120), (460, 30114), (464, 30102), (481, 30006), (497, 29952), (498, 29949), (504, 29925), (513, 29895),

Gene: Strathdee_41 Start: 31119, Stop: 29731, Start Num: 138

Candidate Starts for Strathdee_41:

(2, 31770), (31, 31416), (52, 31341), (Start: 138 @31119 has 140 MA's), (181, 30975), (Start: 183 @30969 has 1 MA's), (184, 30966), (221, 30852), (229, 30825), (243, 30765), (251, 30738), (252, 30735), (272, 30639), (280, 30597), (323, 30426), (328, 30405), (339, 30378), (348, 30330), (373, 30270), (424, 30111), (440, 30057), (459, 29973), (460, 29967), (464, 29955), (481, 29859), (497, 29805), (498, 29802), (504, 29778),

Gene: SummitAcademy_56 Start: 40461, Stop: 38983, Start Num: 109

Candidate Starts for SummitAcademy_56:

(67, 40539), (93, 40488), (95, 40485), (Start: 109 @40461 has 35 MA's), (134, 40398), (142, 40377), (144, 40371), (Start: 149 @40344 has 1 MA's), (161, 40290), (172, 40254), (177, 40239), (211, 40143), (214, 40134), (219, 40113), (236, 40047), (252, 40011), (261, 39957), (263, 39951), (266, 39945), (281, 39867), (285, 39852), (304, 39753), (326, 39678), (335, 39654), (339, 39642), (343, 39621), (345, 39606), (347, 39597), (354, 39576), (369, 39537), (372, 39528), (376, 39513), (394, 39462), (415, 39390), (427, 39348), (428, 39345), (433, 39330), (453, 39234), (465, 39183), (472, 39153), (478, 39120), (491, 39063), (496, 39048),

Gene: Superfresh_41 Start: 31109, Stop: 29721, Start Num: 138

Candidate Starts for Superfresh_41:

(52, 31331), (Start: 138 @31109 has 140 MA's), (181, 30965), (Start: 183 @30959 has 1 MA's), (184, 30956), (221, 30842), (229, 30815), (243, 30755), (251, 30728), (252, 30725), (272, 30629), (280, 30587), (323, 30416), (328, 30395), (335, 30380), (339, 30368), (348, 30320), (373, 30260), (404, 30164), (424, 30101), (440, 30047), (459, 29963), (460, 29957), (464, 29945), (478, 29870), (481, 29849), (497, 29795), (498, 29792), (504, 29768),

Gene: Survivors_49 Start: 37834, Stop: 36344, Start Num: 111

Candidate Starts for Survivors_49:

(Start: 111 @37834 has 6 MA's), (144, 37744), (Start: 149 @37717 has 1 MA's), (160, 37675), (170, 37633), (172, 37627), (Start: 183 @37600 has 1 MA's), (211, 37519), (212, 37516), (214, 37510), (219, 37489), (236, 37423), (261, 37333), (266, 37321), (279, 37258), (281, 37243), (285, 37228), (309, 37111), (313, 37102), (337, 37024), (343, 36997), (344, 36985), (347, 36973), (362, 36934), (369, 36913), (370, 36910), (374, 36895), (394, 36823), (427, 36709), (440, 36664), (441, 36649), (446, 36619), (453, 36595), (465, 36544), (472, 36514), (485, 36448), (491, 36424), (501, 36391), (511, 36355),

Gene: SweatNTears_55 Start: 38970, Stop: 37492, Start Num: 109

Candidate Starts for SweatNTears_55:

(Start: 109 @38970 has 35 MA's), (142, 38883), (144, 38877), (161, 38796), (211, 38652), (212, 38649), (261, 38466), (263, 38460), (266, 38454), (281, 38376), (304, 38262), (313, 38235), (323, 38211), (339, 38151), (347, 38106), (354, 38085), (369, 38046), (374, 38028), (413, 37911), (427, 37863), (428, 37860), (433, 37845), (453, 37749), (459, 37728), (465, 37698),

Gene: Symere_42 Start: 30799, Stop: 29411, Start Num: 138

Candidate Starts for Symere_42:

(2, 31450), (31, 31096), (52, 31021), (Start: 138 @30799 has 140 MA's), (181, 30655), (Start: 183 @30649 has 1 MA's), (184, 30646), (219, 30541), (221, 30532), (229, 30505), (243, 30445), (251, 30418), (252, 30415), (272, 30319), (280, 30277), (323, 30106), (328, 30085), (335, 30070), (348, 30010), (373, 29950), (404, 29854), (424, 29791), (440, 29737), (459, 29653), (460, 29647), (464,

29635), (497, 29485), (498, 29482), (504, 29458),

Gene: TatarkaPM_41 Start: 31124, Stop: 29736, Start Num: 138

Candidate Starts for TatarkaPM_41:

(2, 31775), (31, 31421), (52, 31346), (Start: 138 @31124 has 140 MA's), (181, 30980), (Start: 183 @30974 has 1 MA's), (184, 30971), (221, 30857), (229, 30830), (243, 30770), (251, 30743), (252, 30740), (272, 30644), (280, 30602), (319, 30440), (323, 30431), (328, 30410), (335, 30395), (339, 30383), (348, 30335), (373, 30275), (404, 30179), (424, 30116), (440, 30062), (459, 29978), (460, 29972), (464, 29960), (481, 29864), (497, 29810), (498, 29807), (504, 29783),

Gene: Teagan_41 Start: 31114, Stop: 29726, Start Num: 138

Candidate Starts for Teagan_41:

(2, 31765), (31, 31411), (52, 31336), (Start: 138 @31114 has 140 MA's), (181, 30970), (Start: 183 @30964 has 1 MA's), (184, 30961), (221, 30847), (229, 30820), (243, 30760), (251, 30733), (252, 30730), (272, 30634), (280, 30592), (323, 30421), (328, 30400), (339, 30373), (348, 30325), (373, 30265), (424, 30106), (440, 30052), (459, 29968), (460, 29962), (464, 29950), (481, 29854), (497, 29800), (498, 29797), (504, 29773),

Gene: Teal_57 Start: 53068, Stop: 51656, Start Num: 147

Candidate Starts for Teal_57:

(26, 53416), (58, 53287), (87, 53200), (Start: 89 @53197 has 3 MA's), (Start: 147 @53068 has 27 MA's), (160, 53023), (Start: 183 @52933 has 1 MA's), (184, 52930), (186, 52924), (192, 52903), (216, 52840), (247, 52732), (253, 52714), (272, 52627), (275, 52612), (287, 52570), (303, 52489), (320, 52441), (330, 52399), (336, 52381), (338, 52378), (343, 52351), (356, 52300), (365, 52264), (380, 52213), (400, 52129), (406, 52108), (457, 51952), (459, 51946), (462, 51934), (487, 51808), (518, 51694),

Gene: Teatealatte_58 Start: 53221, Stop: 51518, Start Num: 36

Candidate Starts for Teatealatte_58:

(Start: 36 @53221 has 6 MA's), (Start: 40 @53209 has 2 MA's), (Start: 114 @53026 has 2 MA's), (Start: 147 @52936 has 27 MA's), (150, 52927), (160, 52891), (165, 52867), (168, 52858), (170, 52849), (Start: 183 @52801 has 1 MA's), (187, 52789), (190, 52777), (210, 52720), (216, 52705), (217, 52702), (220, 52684), (231, 52648), (232, 52645), (266, 52516), (267, 52513), (275, 52477), (276, 52474), (282, 52456), (284, 52447), (287, 52435), (294, 52387), (303, 52354), (320, 52306), (325, 52282), (343, 52216), (365, 52117), (389, 52018), (399, 51985), (400, 51982), (432, 51916), (444, 51865), (445, 51862), (457, 51805), (462, 51787), (483, 51670), (484, 51667), (488, 51655), (518, 51556), (525, 51535),

Gene: TeddyBear_40 Start: 30816, Stop: 29428, Start Num: 138

Candidate Starts for TeddyBear_40:

(52, 31038), (Start: 138 @30816 has 140 MA's), (181, 30672), (Start: 183 @30666 has 1 MA's), (184, 30663), (221, 30549), (229, 30522), (243, 30462), (251, 30435), (252, 30432), (271, 30339), (272, 30336), (280, 30294), (323, 30123), (328, 30102), (335, 30087), (339, 30075), (348, 30027), (373, 29967), (404, 29871), (424, 29808), (440, 29754), (459, 29670), (460, 29664), (464, 29652), (478, 29577), (481, 29556), (497, 29502), (498, 29499), (504, 29475),

Gene: Tedro_40 Start: 25407, Stop: 27314, Start Num: 22

Candidate Starts for Tedro_40:

(Start: 22 @25407 has 31 MA's), (27, 25470), (30, 25491), (45, 25545), (Start: 113 @25722 has 1 MA's), (130, 25767), (177, 25941), (181, 25950), (210, 26040), (224, 26097), (266, 26283), (290, 26418), (292, 26430), (300, 26463), (312, 26508), (339, 26592), (371, 26709), (444, 26982), (450, 27018), (451, 27021), (465, 27081), (483, 27171), (492, 27201), (504, 27243), (520, 27294),

Gene: Teech_56 Start: 53010, Stop: 51319, Start Num: 40

Candidate Starts for Teech_56:

(Start: 36 @53022 has 6 MA's), (Start: 40 @53010 has 2 MA's), (Start: 114 @52827 has 2 MA's), (Start: 147 @52737 has 27 MA's), (150, 52728), (160, 52692), (165, 52668), (168, 52659), (170, 52650), (Start: 183 @52602 has 1 MA's), (190, 52578), (216, 52506), (220, 52485), (231, 52449), (232, 52446), (266, 52317), (267, 52314), (275, 52278), (276, 52275), (282, 52257), (284, 52248), (287, 52236), (294, 52188), (303, 52155), (320, 52107), (325, 52083), (343, 52017), (365, 51918), (389, 51819), (392, 51810), (399, 51786), (400, 51783), (432, 51717), (444, 51666), (445, 51663), (457, 51606), (462, 51588), (483, 51471), (484, 51468), (488, 51456), (518, 51357), (525, 51336),

Gene: Tenda_40 Start: 30814, Stop: 29426, Start Num: 138

Candidate Starts for Tenda_40:

(52, 31036), (Start: 138 @30814 has 140 MA's), (181, 30670), (Start: 183 @30664 has 1 MA's), (184, 30661), (221, 30547), (229, 30520), (243, 30460), (251, 30433), (252, 30430), (272, 30334), (280, 30292), (323, 30121), (328, 30100), (335, 30085), (348, 30025), (373, 29965), (404, 29869), (424, 29806), (440, 29752), (459, 29668), (460, 29662), (464, 29650), (481, 29554), (497, 29500), (498, 29497), (504, 29473),

Gene: Thompsone_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for Thompsone_41:

(2, 31772), (31, 31418), (52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (323, 30428), (328, 30407), (339, 30380), (348, 30332), (373, 30272), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (478, 29882), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: Thorongil_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for Thorongil_41:

(Start: 92 @31220 has 2 MA's), (94, 31217), (96, 31214), (134, 31130), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (323, 30428), (328, 30407), (335, 30392), (339, 30380), (348, 30332), (373, 30272), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (478, 29882), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: TinSulphur_42 Start: 31120, Stop: 29732, Start Num: 138

Candidate Starts for TinSulphur_42:

(2, 31771), (31, 31417), (52, 31342), (Start: 138 @31120 has 140 MA's), (181, 30976), (Start: 183 @30970 has 1 MA's), (184, 30967), (221, 30853), (229, 30826), (243, 30766), (251, 30739), (252, 30736), (272, 30640), (280, 30598), (319, 30436), (323, 30427), (328, 30406), (335, 30391), (339, 30379), (348, 30331), (373, 30271), (404, 30175), (424, 30112), (440, 30058), (459, 29974), (460, 29968), (464, 29956), (481, 29860), (497, 29806), (498, 29803), (504, 29779),

Gene: TinyMiny_42 Start: 26527, Stop: 28557, Start Num: 8

Candidate Starts for TinyMiny_42:

(3, 26383), (Start: 8 @26527 has 1 MA's), (21, 26617), (Start: 23 @26623 has 3 MA's), (45, 26770), (50, 26788), (54, 26797), (Start: 113 @26947 has 1 MA's), (152, 27073), (177, 27163), (181, 27172), (210, 27262), (221, 27304), (256, 27466), (292, 27652), (296, 27670), (300, 27685), (317, 27742), (335, 27802), (352, 27874), (388, 28012), (407, 28078), (414, 28108), (439, 28186), (451, 28264), (465, 28324), (474, 28363), (483, 28414), (490, 28432), (522, 28540),

Gene: Tinyman4_39 Start: 29477, Stop: 28092, Start Num: 138

Candidate Starts for Tinyman4_39:

(Start: 138 @29477 has 140 MA's), (201, 29264), (221, 29201), (228, 29180), (251, 29087), (252, 29084), (255, 29063), (258, 29042), (280, 28946), (323, 28775), (329, 28751), (335, 28739), (339, 28727), (341, 28715), (342, 28712), (344, 28694), (348, 28679), (373, 28619), (377, 28607), (380, 28595), (404, 28523), (414, 28493), (424, 28460), (450, 28352), (453, 28343), (457, 28328), (459, 28322), (460, 28316), (464, 28304), (481, 28208), (484, 28199), (492, 28169), (504, 28127),

Gene: Tolls_54 Start: 38563, Stop: 37085, Start Num: 109

Candidate Starts for Tolls_54:

(Start: 109 @38563 has 35 MA's), (144, 38470), (Start: 149 @38443 has 1 MA's), (168, 38368), (Start: 183 @38326 has 1 MA's), (211, 38245), (252, 38113), (261, 38059), (266, 38047), (281, 37969), (304, 37855), (313, 37828), (323, 37804), (347, 37699), (354, 37678), (369, 37639), (374, 37621), (376, 37615), (413, 37504), (427, 37456), (433, 37438), (453, 37342), (459, 37321), (465, 37291),

Gene: Tongui_41 Start: 25537, Stop: 27444, Start Num: 22

Candidate Starts for Tongui_41:

(4, 25363), (Start: 22 @25537 has 31 MA's), (27, 25600), (30, 25621), (45, 25675), (63, 25735), (104, 25837), (Start: 113 @25852 has 1 MA's), (130, 25897), (177, 26071), (181, 26080), (210, 26170), (211, 26173), (224, 26227), (266, 26413), (288, 26521), (290, 26548), (292, 26560), (339, 26722), (371, 26839), (451, 27151), (465, 27211), (483, 27301), (492, 27331), (504, 27373), (520, 27424),

Gene: Tredge_57 Start: 53221, Stop: 51518, Start Num: 36

Candidate Starts for Tredge_57:

(Start: 36 @53221 has 6 MA's), (Start: 40 @53209 has 2 MA's), (Start: 114 @53026 has 2 MA's), (Start: 147 @52936 has 27 MA's), (150, 52927), (160, 52891), (165, 52867), (168, 52858), (170, 52849), (Start: 183 @52801 has 1 MA's), (187, 52789), (190, 52777), (210, 52720), (216, 52705), (217, 52702), (220, 52684), (231, 52648), (232, 52645), (266, 52516), (267, 52513), (275, 52477), (276, 52474), (282, 52456), (284, 52447), (287, 52435), (294, 52387), (303, 52354), (320, 52306), (325, 52282), (343, 52216), (365, 52117), (389, 52018), (399, 51985), (400, 51982), (432, 51916), (444, 51865), (445, 51862), (457, 51805), (462, 51787), (483, 51670), (484, 51667), (488, 51655), (518, 51556), (525, 51535),

Gene: Triscuit_58 Start: 36727, Stop: 38280, Start Num: 105

Candidate Starts for Triscuit_58:

(Start: 105 @36727 has 1 MA's), (Start: 107 @36730 has 1 MA's), (144, 36826), (150, 36856), (160, 36895), (166, 36922), (170, 36937), (188, 36982), (190, 36991), (198, 37021), (224, 37105), (242, 37189), (244, 37198), (245, 37201), (272, 37321), (275, 37336), (289, 37423), (309, 37513), (344, 37636), (347, 37648), (379, 37735), (407, 37834), (413, 37852), (446, 37990), (501, 38218), (503, 38227), (504, 38230),

Gene: Trogglehumper_76 Start: 59717, Stop: 58170, Start Num: 113

Candidate Starts for Trogglehumper_76:

(66, 59828), (90, 59762), (Start: 113 @59717 has 1 MA's), (151, 59600), (160, 59567), (173, 59525), (175, 59519), (Start: 183 @59495 has 1 MA's), (201, 59429), (206, 59420), (208, 59417), (228, 59354), (237, 59315), (255, 59249), (271, 59183), (275, 59165), (280, 59153), (284, 59135), (292, 59087), (293, 59081), (320, 59003), (330, 58961), (336, 58943), (348, 58886), (351, 58877), (387, 58751), (399, 58709), (400, 58706), (406, 58685), (412, 58652), (430, 58595), (462, 58445), (467, 58421), (477, 58370), (496, 58280), (507, 58241), (516, 58220), (522, 58208), (523, 58205), (525, 58193),

Gene: Troje_55 Start: 38986, Stop: 37508, Start Num: 109

Candidate Starts for Troje_55:

(Start: 109 @38986 has 35 MA's), (142, 38899), (144, 38893), (155, 38842), (168, 38791), (172, 38776), (201, 38692), (211, 38668), (214, 38659), (252, 38536), (261, 38482), (263, 38476), (266, 38470), (272, 38440), (281, 38392), (304, 38278), (313, 38251), (323, 38227), (343, 38146), (347,

38122), (354, 38101), (369, 38062), (374, 38044), (376, 38038), (413, 37927), (415, 37921), (427, 37879), (433, 37861), (450, 37774), (453, 37765), (459, 37744), (465, 37714), (472, 37684), (478, 37651), (501, 37561),

Gene: TwoBits_38 Start: 29402, Stop: 28083, Start Num: 167

Candidate Starts for TwoBits_38:

(Start: 138 @29510 has 140 MA's), (146, 29480), (Start: 147 @29474 has 27 MA's), (Start: 167 @29402 has 1 MA's), (182, 29363), (Start: 183 @29360 has 1 MA's), (184, 29357), (201, 29297), (251, 29120), (252, 29117), (270, 29024), (285, 28955), (303, 28862), (323, 28805), (339, 28757), (341, 28745), (344, 28724), (363, 28643), (373, 28610), (391, 28556), (393, 28550), (404, 28514), (405, 28511), (424, 28451), (450, 28343), (453, 28334), (457, 28319), (459, 28313), (464, 28295), (484, 28190), (504, 28118),

Gene: Typhonomachy_53 Start: 38552, Stop: 37074, Start Num: 109

Candidate Starts for Typhonomachy_53:

(Start: 109 @38552 has 35 MA's), (142, 38465), (144, 38459), (161, 38378), (168, 38357), (212, 38231), (261, 38048), (263, 38042), (266, 38036), (281, 37958), (304, 37844), (313, 37817), (323, 37793), (339, 37733), (347, 37688), (354, 37667), (369, 37628), (374, 37610), (413, 37493), (427, 37445), (428, 37442), (433, 37427), (453, 37331), (459, 37310), (465, 37280),

Gene: Velene_41 Start: 31119, Stop: 29731, Start Num: 138

Candidate Starts for Velene_41:

(2, 31770), (31, 31416), (52, 31341), (Start: 138 @31119 has 140 MA's), (181, 30975), (Start: 183 @30969 has 1 MA's), (184, 30966), (221, 30852), (229, 30825), (243, 30765), (251, 30738), (252, 30735), (272, 30639), (280, 30597), (323, 30426), (328, 30405), (339, 30378), (348, 30330), (373, 30270), (424, 30111), (440, 30057), (459, 29973), (460, 29967), (464, 29955), (481, 29859), (497, 29805), (498, 29802), (504, 29778),

Gene: Vine_59 Start: 41084, Stop: 39606, Start Num: 109

Candidate Starts for Vine_59:

(67, 41162), (93, 41111), (95, 41108), (Start: 109 @41084 has 35 MA's), (134, 41021), (142, 41000), (144, 40994), (Start: 149 @40967 has 1 MA's), (161, 40913), (172, 40877), (177, 40862), (211, 40766), (214, 40757), (219, 40736), (236, 40670), (252, 40634), (261, 40580), (263, 40574), (266, 40568), (281, 40490), (285, 40475), (304, 40376), (326, 40301), (335, 40277), (339, 40265), (343, 40244), (345, 40229), (347, 40220), (354, 40199), (369, 40160), (372, 40151), (376, 40136), (394, 40085), (414, 40016), (415, 40013), (427, 39971), (433, 39953), (453, 39857), (465, 39806), (472, 39776), (478, 39743), (491, 39686), (496, 39671),

Gene: Vispistious_41 Start: 31121, Stop: 29733, Start Num: 138

Candidate Starts for Vispistious_41:

(2, 31772), (31, 31418), (52, 31343), (Start: 138 @31121 has 140 MA's), (181, 30977), (Start: 183 @30971 has 1 MA's), (184, 30968), (221, 30854), (229, 30827), (243, 30767), (251, 30740), (252, 30737), (272, 30641), (280, 30599), (323, 30428), (328, 30407), (339, 30380), (348, 30332), (373, 30272), (424, 30113), (440, 30059), (459, 29975), (460, 29969), (464, 29957), (481, 29861), (497, 29807), (498, 29804), (504, 29780),

Gene: Vitaenoi_55 Start: 53796, Stop: 52234, Start Num: 78

Candidate Starts for Vitaenoi_55:

(Start: 36 @53928 has 6 MA's), (Start: 40 @53916 has 2 MA's), (Start: 78 @53796 has 1 MA's), (Start: 101 @53763 has 2 MA's), (Start: 114 @53733 has 2 MA's), (150, 53634), (160, 53598), (165, 53574), (168, 53565), (170, 53556), (Start: 183 @53508 has 1 MA's), (184, 53505), (186, 53499), (187, 53496), (228, 53373), (232, 53352), (251, 53292), (267, 53220), (272, 53199), (275, 53184), (276, 53181), (280, 53172), (320, 53013), (334, 52962), (338, 52950), (339, 52944), (343, 52923), (354, 52878),

(365, 52833), (378, 52791), (389, 52734), (398, 52704), (399, 52701), (400, 52698), (421, 52644), (457, 52521), (462, 52503), (483, 52386), (484, 52383), (488, 52371), (525, 52251),

Gene: Wardwill_41 Start: 29255, Stop: 27828, Start Num: 138

Candidate Starts for Wardwill_41:

(Start: 138 @29255 has 140 MA's), (146, 29225), (Start: 147 @29219 has 27 MA's), (Start: 183 @29105 has 1 MA's), (184, 29102), (185, 29099), (251, 28865), (252, 28862), (303, 28607), (309, 28583), (321, 28556), (323, 28550), (339, 28502), (344, 28469), (373, 28355), (376, 28346), (391, 28301), (393, 28295), (401, 28268), (424, 28196), (443, 28124), (450, 28088), (453, 28079), (457, 28064), (459, 28058), (464, 28040), (472, 27998), (484, 27935), (504, 27863),

Gene: Wentworth_70 Start: 50269, Stop: 48383, Start Num: 17

Candidate Starts for Wentworth_70:

(9, 50335), (10, 50326), (13, 50305), (16, 50272), (Start: 17 @50269 has 8 MA's), (Start: 22 @50254 has 31 MA's), (27, 50191), (28, 50182), (30, 50170), (44, 50122), (54, 50089), (58, 50077), (63, 50056), (77, 50014), (Start: 113 @49939 has 1 MA's), (123, 49915), (177, 49717), (181, 49708), (194, 49663), (215, 49600), (241, 49492), (254, 49444), (273, 49339), (283, 49288), (292, 49228), (316, 49141), (317, 49138), (344, 49033), (346, 49024), (350, 49012), (381, 48913), (419, 48796), (424, 48784), (433, 48757), (436, 48751), (451, 48667), (468, 48598), (479, 48541), (481, 48523), (499, 48469), (515, 48415),

Gene: WestPM_37 Start: 29337, Stop: 27952, Start Num: 137

Candidate Starts for WestPM_37:

(Start: 137 @29337 has 1 MA's), (201, 29124), (221, 29061), (228, 29040), (251, 28947), (252, 28944), (255, 28923), (258, 28902), (280, 28806), (303, 28692), (309, 28668), (323, 28635), (329, 28611), (335, 28599), (339, 28587), (341, 28575), (342, 28572), (344, 28554), (363, 28512), (373, 28479), (377, 28467), (380, 28455), (404, 28383), (450, 28212), (453, 28203), (457, 28188), (459, 28182), (460, 28176), (481, 28068), (484, 28059), (492, 28029), (502, 27996), (504, 27987),

Gene: WildNOut_41 Start: 31117, Stop: 29729, Start Num: 138

Candidate Starts for WildNOut_41:

(2, 31768), (31, 31414), (52, 31339), (Start: 138 @31117 has 140 MA's), (181, 30973), (Start: 183 @30967 has 1 MA's), (184, 30964), (221, 30850), (229, 30823), (243, 30763), (251, 30736), (252, 30733), (272, 30637), (280, 30595), (323, 30424), (328, 30403), (339, 30376), (348, 30328), (373, 30268), (424, 30109), (440, 30055), (459, 29971), (460, 29965), (464, 29953), (481, 29857), (497, 29803), (498, 29800), (504, 29776),

Gene: Wilkos_72 Start: 50432, Stop: 48546, Start Num: 17

Candidate Starts for Wilkos_72:

(6, 50525), (9, 50498), (10, 50489), (13, 50468), (16, 50435), (Start: 17 @50432 has 8 MA's), (Start: 22 @50417 has 31 MA's), (27, 50354), (28, 50345), (30, 50333), (44, 50285), (54, 50252), (58, 50240), (63, 50219), (77, 50177), (Start: 113 @50102 has 1 MA's), (146, 49994), (158, 49949), (177, 49880), (181, 49871), (215, 49763), (254, 49607), (269, 49523), (273, 49502), (283, 49451), (292, 49391), (317, 49301), (333, 49247), (344, 49196), (346, 49187), (350, 49175), (361, 49142), (381, 49076), (424, 48947), (433, 48920), (436, 48914), (451, 48830), (468, 48761), (471, 48746), (479, 48704), (481, 48686), (499, 48632), (515, 48578),

Gene: WilliamStrong_40 Start: 30915, Stop: 29497, Start Num: 138

Candidate Starts for WilliamStrong_40:

(Start: 138 @30915 has 140 MA's), (Start: 141 @30909 has 21 MA's), (146, 30885), (Start: 167 @30807 has 1 MA's), (182, 30768), (Start: 183 @30765 has 1 MA's), (201, 30702), (218, 30651), (225, 30630), (229, 30612), (238, 30573), (251, 30525), (252, 30522), (253, 30519), (258, 30480), (270, 30429), (303, 30267), (319, 30219), (321, 30216), (323, 30210), (328, 30189), (341, 30150), (344,

30129), (373, 30015), (377, 30003), (391, 29961), (401, 29928), (404, 29919), (424, 29856), (450, 29748), (453, 29739), (457, 29724), (459, 29718), (460, 29712), (464, 29700), (490, 29577), (492, 29565),

Gene: Winzigespinne_40 Start: 30802, Stop: 29414, Start Num: 138

Candidate Starts for Winzigespinne_40:

(52, 31024), (Start: 138 @30802 has 140 MA's), (181, 30658), (Start: 183 @30652 has 1 MA's), (184, 30649), (221, 30535), (229, 30508), (243, 30448), (251, 30421), (252, 30418), (272, 30322), (280, 30280), (323, 30109), (328, 30088), (335, 30073), (339, 30061), (348, 30013), (373, 29953), (404, 29857), (424, 29794), (440, 29740), (459, 29656), (460, 29650), (464, 29638), (478, 29563), (497, 29488), (498, 29485), (504, 29461),

Gene: Woes_57 Start: 53248, Stop: 51707, Start Num: 89

Candidate Starts for Woes_57:

(26, 53467), (58, 53338), (87, 53251), (Start: 89 @53248 has 3 MA's), (Start: 147 @53119 has 27 MA's), (160, 53074), (Start: 183 @52984 has 1 MA's), (184, 52981), (186, 52975), (192, 52954), (216, 52891), (247, 52783), (253, 52765), (272, 52678), (275, 52663), (287, 52621), (303, 52540), (320, 52492), (330, 52450), (336, 52432), (338, 52429), (343, 52402), (356, 52351), (365, 52315), (380, 52264), (400, 52180), (406, 52159), (457, 52003), (459, 51997), (462, 51985), (487, 51859), (518, 51745),

Gene: Wollypog_43 Start: 30596, Stop: 32524, Start Num: 19

Candidate Starts for Wollypog_43:

(Start: 19 @30596 has 1 MA's), (24, 30620), (45, 30746), (60, 30794), (77, 30848), (Start: 106 @30911 has 1 MA's), (Start: 113 @30923 has 1 MA's), (148, 31034), (164, 31100), (166, 31106), (195, 31199), (203, 31229), (210, 31244), (212, 31250), (272, 31514), (281, 31562), (284, 31574), (290, 31619), (306, 31688), (310, 31709), (344, 31829), (365, 31895), (377, 31934), (395, 31997), (453, 32228), (475, 32327), (480, 32354), (504, 32453), (507, 32462),

Gene: Worcestershire_59 Start: 51468, Stop: 49936, Start Num: 108

Candidate Starts for Worcestershire_59:

(26, 51723), (34, 51672), (47, 51621), (66, 51567), (76, 51537), (Start: 89 @51504 has 3 MA's), (97, 51495), (Start: 108 @51468 has 25 MA's), (160, 51300), (170, 51258), (Start: 183 @51210 has 1 MA's), (187, 51198), (190, 51186), (192, 51180), (197, 51159), (209, 51132), (253, 50991), (272, 50904), (275, 50889), (280, 50877), (287, 50847), (295, 50796), (302, 50769), (320, 50718), (325, 50694), (330, 50676), (336, 50658), (338, 50655), (343, 50628), (353, 50586), (365, 50541), (400, 50406), (403, 50391), (409, 50370), (444, 50289), (445, 50286), (457, 50229), (459, 50223), (460, 50217), (462, 50211), (477, 50136), (483, 50097), (487, 50085), (488, 50082), (515, 49989), (518, 49974), (525, 49953),

Gene: Yakult_55 Start: 39767, Stop: 38292, Start Num: 112

Candidate Starts for Yakult_55:

(Start: 112 @39767 has 12 MA's), (128, 39725), (144, 39677), (Start: 149 @39650 has 1 MA's), (155, 39626), (161, 39596), (168, 39575), (170, 39566), (172, 39560), (201, 39476), (204, 39467), (209, 39458), (212, 39449), (214, 39443), (252, 39320), (261, 39266), (263, 39260), (266, 39254), (275, 39209), (281, 39176), (332, 38972), (335, 38963), (352, 38891), (369, 38846), (374, 38828), (376, 38822), (392, 38777), (394, 38771), (400, 38750), (414, 38702), (415, 38699), (427, 38657), (428, 38654), (433, 38639), (453, 38543), (465, 38492), (478, 38429), (490, 38381), (495, 38360), (511, 38303),

Gene: Yara_66 Start: 49125, Stop: 47230, Start Num: 17

Candidate Starts for Yara_66:

(Start: 17 @49125 has 8 MA's), (20, 49113), (Start: 22 @49110 has 31 MA's), (25, 49071), (27, 49047), (28, 49038), (30, 49026), (58, 48933), (77, 48870), (Start: 113 @48795 has 1 MA's), (123, 48771), (127, 48756), (158, 48645), (161, 48624), (177, 48576), (221, 48438), (267, 48240), (273, 48198), (283, 48147), (292, 48087), (293, 48081), (317, 47997), (344, 47892), (350, 47871), (356, 47853), (367, 47820), (381, 47772), (419, 47649), (424, 47637), (433, 47610), (451, 47520), (452, 47517), (468, 47451), (479, 47394), (481, 47376), (482, 47373), (504, 47301), (520, 47250),

Gene: Yarn_50 Start: 38320, Stop: 36842, Start Num: 109

Candidate Starts for Yarn_50:

(Start: 109 @38320 has 35 MA's), (144, 38227), (Start: 149 @38200 has 1 MA's), (168, 38125), (Start: 183 @38083 has 1 MA's), (211, 38002), (252, 37870), (261, 37816), (266, 37804), (281, 37726), (304, 37612), (313, 37585), (323, 37561), (332, 37522), (347, 37456), (354, 37435), (374, 37378), (413, 37261), (427, 37213), (433, 37195), (453, 37099), (459, 37078), (465, 37048),

Gene: Yucky_60 Start: 40876, Stop: 39398, Start Num: 109

Candidate Starts for Yucky_60:

(67, 40954), (93, 40903), (95, 40900), (Start: 109 @40876 has 35 MA's), (134, 40813), (142, 40792), (144, 40786), (Start: 149 @40759 has 1 MA's), (161, 40705), (172, 40669), (177, 40654), (211, 40558), (214, 40549), (219, 40528), (236, 40462), (252, 40426), (261, 40372), (263, 40366), (266, 40360), (281, 40282), (285, 40267), (304, 40168), (326, 40093), (335, 40069), (339, 40057), (343, 40036), (345, 40021), (347, 40012), (354, 39991), (369, 39952), (372, 39943), (376, 39928), (394, 39877), (414, 39808), (415, 39805), (427, 39763), (433, 39745), (453, 39649), (465, 39598), (472, 39568), (478, 39535), (491, 39478), (496, 39463),

Gene: Yummy_55 Start: 38695, Stop: 37217, Start Num: 109

Candidate Starts for Yummy_55:

(Start: 109 @38695 has 35 MA's), (142, 38608), (144, 38602), (155, 38551), (168, 38500), (172, 38485), (201, 38401), (211, 38377), (214, 38368), (252, 38245), (261, 38191), (263, 38185), (266, 38179), (272, 38149), (281, 38101), (304, 37987), (313, 37960), (323, 37936), (343, 37855), (347, 37831), (354, 37810), (369, 37771), (374, 37753), (376, 37747), (413, 37636), (415, 37630), (427, 37588), (433, 37570), (450, 37483), (453, 37474), (459, 37453), (465, 37423), (472, 37393), (478, 37360), (492, 37300), (501, 37270),

Gene: YuuY_40 Start: 31212, Stop: 29842, Start Num: 141

Candidate Starts for YuuY_40:

(Start: 141 @31212 has 21 MA's), (159, 31143), (185, 31062), (221, 30951), (229, 30924), (243, 30864), (251, 30837), (252, 30834), (272, 30738), (303, 30582), (323, 30525), (328, 30504), (335, 30489), (339, 30477), (341, 30465), (343, 30456), (344, 30444), (348, 30429), (358, 30405), (373, 30369), (376, 30360), (391, 30315), (402, 30273), (424, 30210), (429, 30198), (438, 30171), (450, 30102), (453, 30093), (457, 30078), (459, 30072), (460, 30066), (464, 30054), (481, 29958), (484, 29949), (490, 29931), (492, 29919),

Gene: Zada_42 Start: 31090, Stop: 29702, Start Num: 138

Candidate Starts for Zada_42:

(31, 31387), (52, 31312), (Start: 138 @31090 has 140 MA's), (181, 30946), (Start: 183 @30940 has 1 MA's), (184, 30937), (221, 30823), (229, 30796), (243, 30736), (251, 30709), (252, 30706), (272, 30610), (280, 30568), (302, 30457), (323, 30397), (335, 30361), (339, 30349), (348, 30301), (373, 30241), (404, 30145), (424, 30082), (440, 30028), (459, 29944), (460, 29938), (464, 29926), (481, 29830), (497, 29776), (498, 29773), (504, 29749),

Gene: Zareef_51 Start: 37928, Stop: 36438, Start Num: 111

Candidate Starts for Zareef_51:

(Start: 111 @37928 has 6 MA's), (144, 37838), (Start: 149 @37811 has 1 MA's), (160, 37769), (170, 37727), (172, 37721), (Start: 183 @37694 has 1 MA's), (211, 37613), (212, 37610), (214, 37604), (219, 37583), (236, 37517), (261, 37427), (266, 37415), (279, 37352), (281, 37337), (285, 37322), (309, 37205), (313, 37196), (337, 37118), (343, 37091), (344, 37079), (347, 37067), (362, 37028), (369, 37007), (370, 37004), (374, 36989), (394, 36917), (414, 36848), (427, 36803), (440, 36758), (441, 36743), (446, 36713), (453, 36689), (465, 36638), (472, 36608), (485, 36542), (491, 36518), (501, 36485), (511, 36449),

Gene: Zayuliv_40 Start: 29694, Stop: 28267, Start Num: 138

Candidate Starts for Zayuliv_40:

(Start: 138 @29694 has 140 MA's), (146, 29664), (Start: 147 @29658 has 27 MA's), (Start: 183 @29544 has 1 MA's), (184, 29541), (185, 29538), (251, 29304), (252, 29301), (303, 29046), (321, 28995), (323, 28989), (339, 28941), (344, 28908), (373, 28794), (376, 28785), (391, 28740), (393, 28734), (401, 28707), (424, 28635), (443, 28563), (450, 28527), (453, 28518), (457, 28503), (459, 28497), (464, 28479), (472, 28437), (484, 28374), (504, 28302),

Gene: Zenitsu_40 Start: 30973, Stop: 29561, Start Num: 141

Candidate Starts for Zenitsu_40:

(Start: 140 @30976 has 10 MA's), (Start: 141 @30973 has 21 MA's), (Start: 147 @30943 has 27 MA's), (Start: 149 @30937 has 1 MA's), (159, 30904), (221, 30712), (229, 30685), (243, 30625), (251, 30598), (252, 30595), (258, 30553), (272, 30499), (280, 30457), (303, 30343), (323, 30286), (328, 30265), (335, 30250), (339, 30238), (341, 30226), (342, 30223), (344, 30205), (362, 30124), (373, 30088), (391, 30034), (402, 29992), (414, 29962), (417, 29947), (420, 29938), (423, 29932), (438, 29890), (450, 29821), (457, 29797), (459, 29791), (460, 29785), (464, 29773), (481, 29677), (484, 29668), (490, 29650), (492, 29638), (494, 29632), (505, 29593),

Gene: Zepp_40 Start: 29128, Stop: 27701, Start Num: 138

Candidate Starts for Zepp_40:

(Start: 138 @29128 has 140 MA's), (146, 29098), (Start: 147 @29092 has 27 MA's), (Start: 183 @28978 has 1 MA's), (184, 28975), (241, 28774), (251, 28738), (252, 28735), (303, 28480), (321, 28429), (323, 28423), (339, 28375), (341, 28363), (344, 28342), (365, 28255), (373, 28228), (376, 28219), (391, 28174), (401, 28141), (417, 28087), (424, 28069), (443, 27997), (450, 27961), (453, 27952), (457, 27937), (459, 27931), (464, 27913), (484, 27808), (504, 27736),

Gene: Zuko_72 Start: 51866, Stop: 53398, Start Num: 101

Candidate Starts for Zuko_72:

(68, 51788), (Start: 101 @51866 has 2 MA's), (115, 51899), (144, 51986), (153, 52028), (154, 52034), (155, 52037), (157, 52043), (162, 52070), (169, 52091), (170, 52097), (184, 52133), (196, 52175), (202, 52196), (209, 52211), (211, 52217), (212, 52220), (250, 52364), (252, 52370), (253, 52373), (261, 52424), (263, 52430), (266, 52436), (270, 52460), (275, 52481), (281, 52514), (291, 52577), (293, 52586), (308, 52649), (337, 52745), (343, 52772), (344, 52784), (347, 52796), (348, 52799), (394, 52916), (420, 53012), (427, 53030), (436, 53054), (450, 53135), (451, 53138), (452, 53141), (465, 53195), (472, 53225), (482, 53282), (490, 53306), (493, 53321),