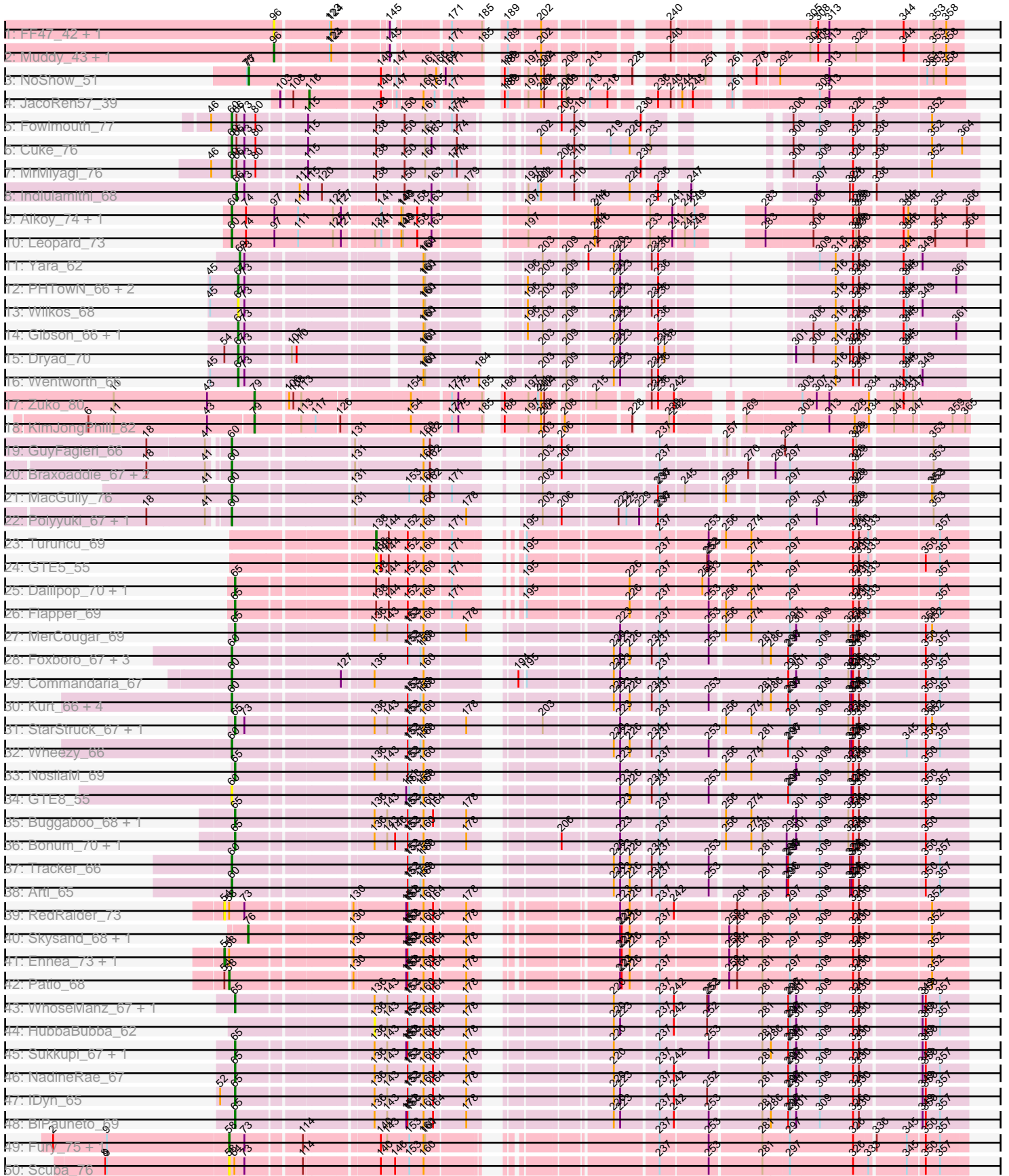
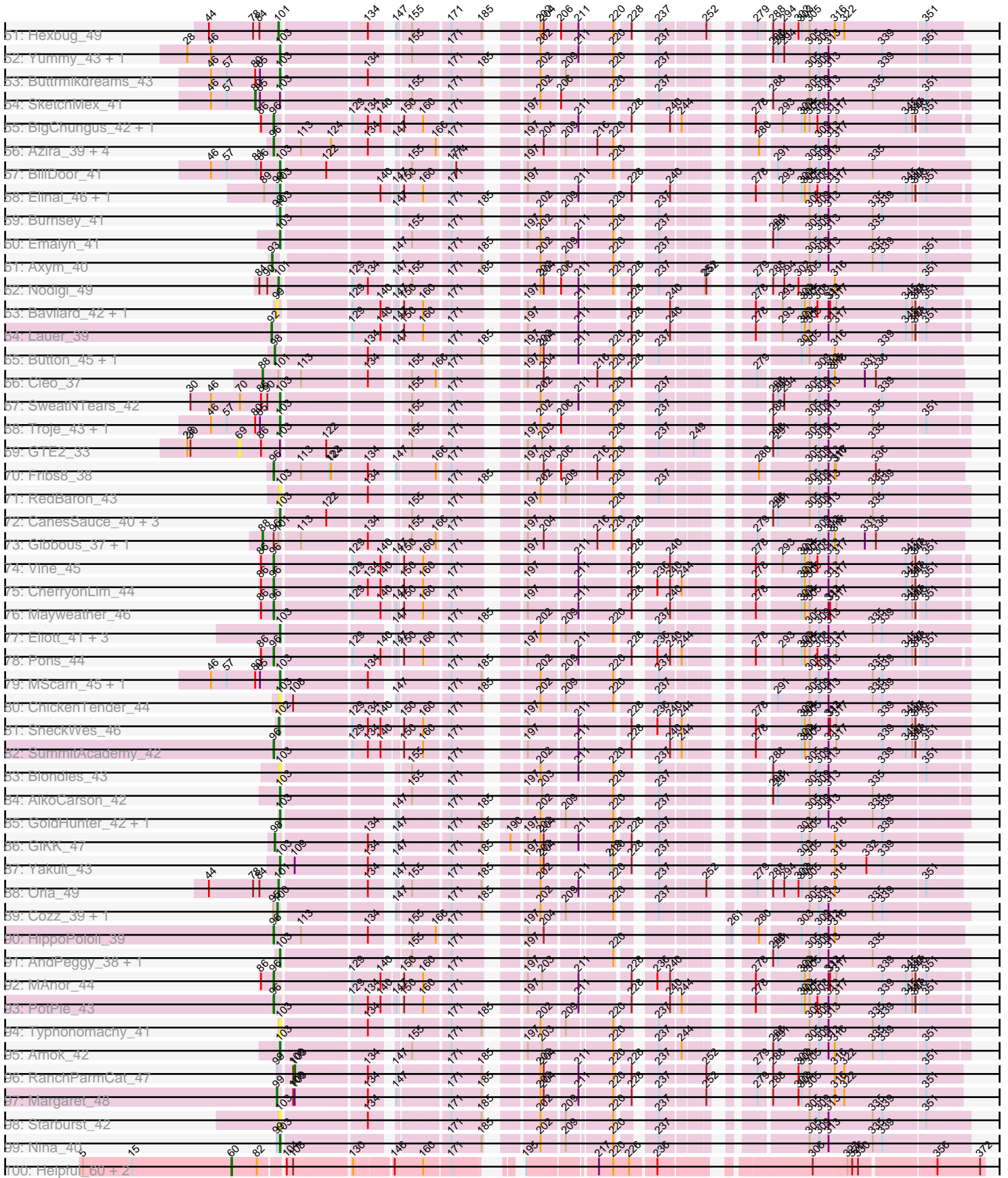


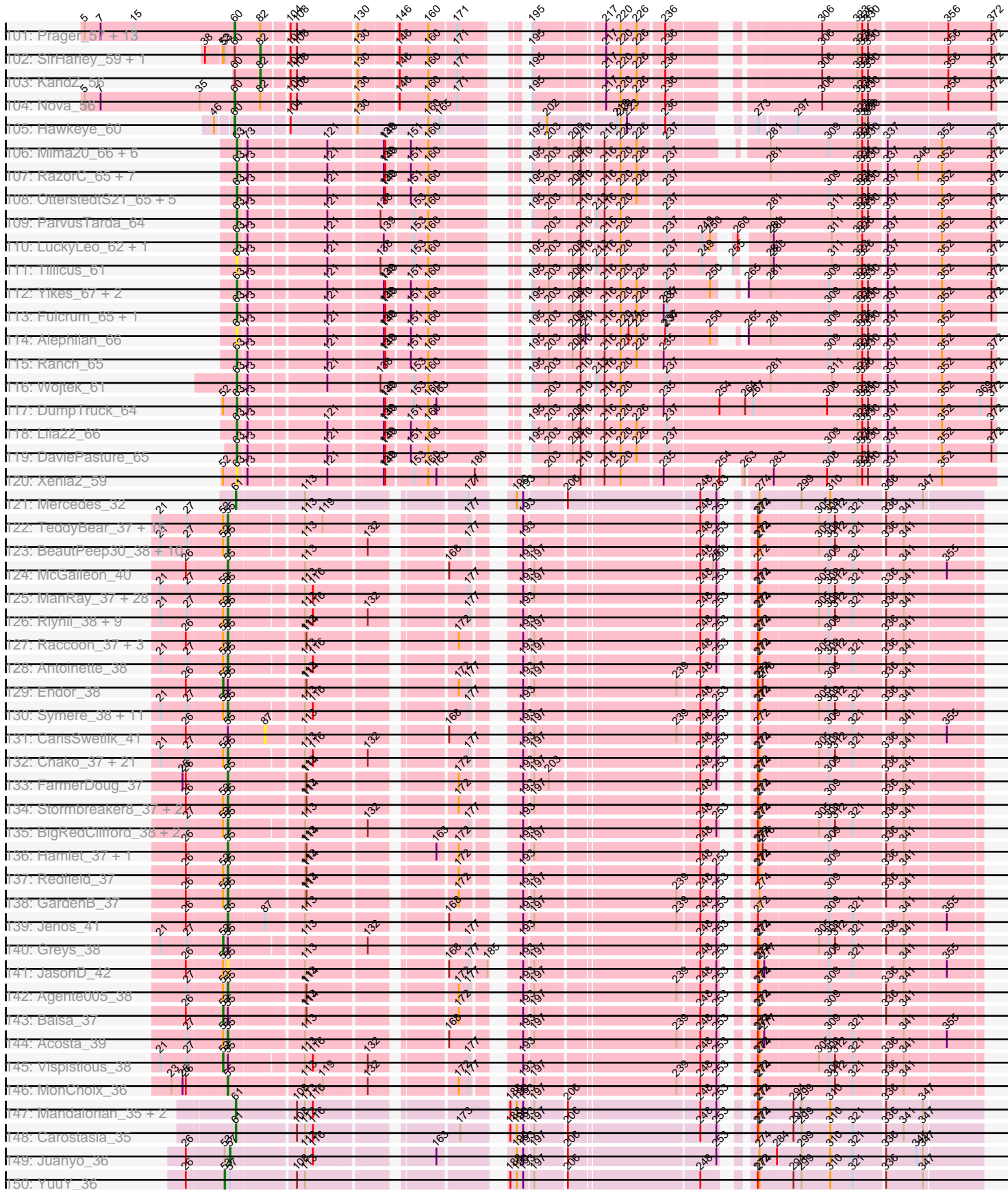
Pham 202565



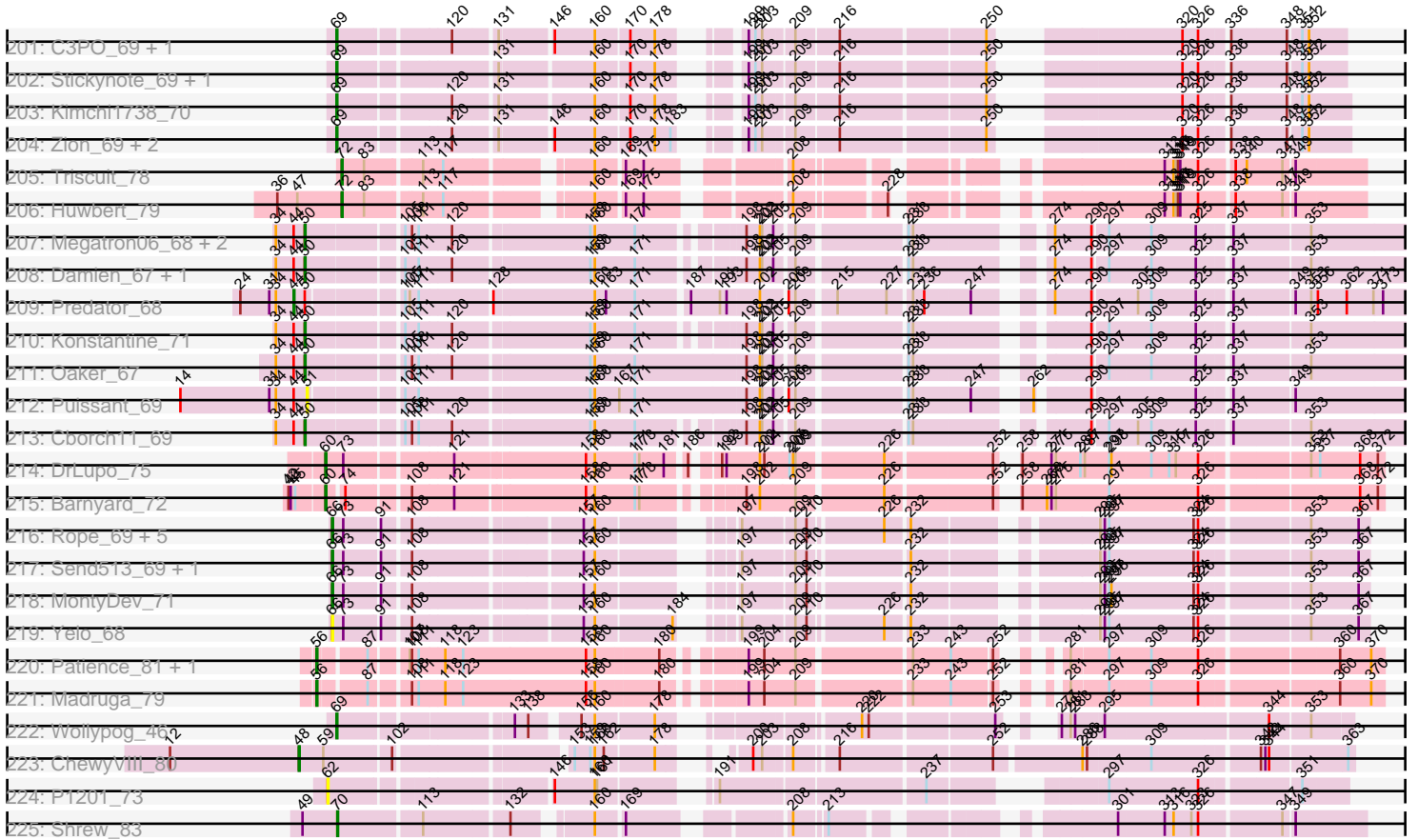
Pham 202565



Pham 202565



Pham 202565



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 202565 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202565 has 478 members, 59 are drafts.

Phages represented in each track:

- Track 1 : FF47_42, 8UZL_43
- Track 2 : Muddy_43, Maco6_41
- Track 3 : NoShow_51
- Track 4 : JacoRen57_39
- Track 5 : Fowlmouth_77
- Track 6 : Cuke_76
- Track 7 : MrMiyagi_76
- Track 8 : Indlulamithi_68
- Track 9 : Aikoy_74, Onyinye_74
- Track 10 : Leopard_73
- Track 11 : Yara_62
- Track 12 : PHTowN_66, ShakeNBake_66, Lizz_66
- Track 13 : Wilkos_68
- Track 14 : Gibson_66, Rooney_66
- Track 15 : Dryad_70
- Track 16 : Wentworth_66
- Track 17 : Zuko_80
- Track 18 : KimJongPhill_82
- Track 19 : GuyFagieri_66
- Track 20 : Braxoaddie_67, CoffeeBean_67, Maselop_67
- Track 21 : MacGully_76
- Track 22 : Polyuyuki_67, Apiary_67
- Track 23 : Turuncu_69
- Track 24 : GTE5_55
- Track 25 : Dalilpop_70, GRU1_55
- Track 26 : Flapper_69
- Track 27 : MerCougar_69
- Track 28 : Foxboro_67, Phomeo_67, Jifall16_66, KidneyBean_67
- Track 29 : Commandaria_67
- Track 30 : Kurt_66, NovumRegina_66, GrootJr_68, Emianna_66, NatB6_66
- Track 31 : StarStruck_67, Outis_67
- Track 32 : Wheezy_66
- Track 33 : NosilaM_69
- Track 34 : GTE8_55
- Track 35 : Buggaboo_68, SuperSulley_68
- Track 36 : Bonum_70, Kabluna_69
- Track 37 : Tracker_66

- Track 38 : Arti_65
- Track 39 : RedRaider_73
- Track 40 : Skysand_68, Float294_67
- Track 41 : Ennea_73, Lollipop1437_70
- Track 42 : Patio_68
- Track 43 : WhoseManz_67, Marietta_68
- Track 44 : HubbaBubba_62
- Track 45 : Sukkupi_67, Yndexa_67
- Track 46 : NadineRae_67
- Track 47 : IDyn_65
- Track 48 : BiPauneto_69
- Track 49 : Fury_75, Pleakley_75
- Track 50 : Scuba_76
- Track 51 : Hexbug_49
- Track 52 : Yummy_43, Horseradish_43
- Track 53 : Buttrmilkdreams_43
- Track 54 : SketchMex_41
- Track 55 : BigChungus_42, Feastonyeet_42
- Track 56 : Azira_39, Nibbles_38, Zareef_41, Survivors_39, MaVan_39
- Track 57 : BillDoor_41
- Track 58 : Elinal_46, KayGee_44
- Track 59 : Burnsey_41
- Track 60 : Emalyn_41
- Track 61 : Axym_40
- Track 62 : Nodigi_49
- Track 63 : Bavidard_42, Yucky_46
- Track 64 : Lauer_39
- Track 65 : Button_45, Jamzy_47
- Track 66 : Cleo_37
- Track 67 : SweatNTears_42
- Track 68 : Troje_43, Biskit_43
- Track 69 : GTE2_33
- Track 70 : Fribs8_38
- Track 71 : RedBaron_43
- Track 72 : CanesSauce_40, ChocoMunchkin_40, Tolls_42, SteamedHams_42
- Track 73 : Gibbous_37, Dre3_37
- Track 74 : Vine_45
- Track 75 : CherryonLim_44
- Track 76 : Mayweather_46
- Track 77 : Elliott_41, MunkgeeRoachy_39, PsychoKiller_40, Sopespian_40
- Track 78 : Pons_44
- Track 79 : MScarn_45, Carsonalex_44
- Track 80 : ChickenTender_44
- Track 81 : SheckWes_46
- Track 82 : SummitAcademy_42
- Track 83 : Blondies_43
- Track 84 : AikoCarson_42
- Track 85 : GoldHunter_42, Quasar_41
- Track 86 : GiKK_47
- Track 87 : Yakult_43
- Track 88 : Orla_49
- Track 89 : Cozz_39, Agatha_41
- Track 90 : HippoPololi_39

- Track 91 : AndPeggy_38, Yarn_38
- Track 92 : MAnor_44
- Track 93 : PotPie_43
- Track 94 : Typhonomachy_41
- Track 95 : Amok_42
- Track 96 : RanchParmCat_47
- Track 97 : Margaret_48
- Track 98 : Starburst_42
- Track 99 : Nina_40
- Track 100 : Helpful_60, PLOT_57, Penelope2018_57
- Track 101 : Prager_57, Giuseppe_58, Butterscotch_56, Chill_59, Erk16_56, Mopey_58, PBI1_54, WaldoWhy_59, Adjutor_56, Delton_58, BigMama_55, Visconti_58, Troll4_57, Thoth_57
- Track 102 : SirHarley_59, Gumball_57
- Track 103 : KandZ_56
- Track 104 : Nova_56
- Track 105 : Hawkeye_60
- Track 106 : Mima20_66, Jalebi_64, Zany_63, Erutan_65, Sampudon_65, DoobyDoo_64, MoiGyank_68
- Track 107 : RazorC_65, NovaSharks_67, Astralis_66, Alyssmiracle_68, Avian_64, Rumi_66, Genamy16_68, Jamemuya19_65
- Track 108 : OtterstedtS21_65, BirthdayBoy_67, NorManre_69, Gibbin_67, Patos_69, Lambo_63
- Track 109 : ParvusTarda_64
- Track 110 : LuckyLeo_62, Apeppi_60
- Track 111 : Tillicus_61
- Track 112 : Yikes_67, GretelLyn_65, Sadboi_66
- Track 113 : Fulcrum_65, GOATification_65
- Track 114 : Alephilan_66
- Track 115 : Ranch_65
- Track 116 : Wojtek_61
- Track 117 : DumpTruck_64
- Track 118 : Lila22_66
- Track 119 : DaviePasture_65
- Track 120 : Xenia2_59
- Track 121 : Mercedes_32
- Track 122 : TeddyBear_37, Etta_37, Gelo_37, Exploradora_38, SonOfLevi_37, Asta_37, Chamuel_37, Nagem_38, Calix_37, Pocket_37, Klimt_37, Erla_37, Gershwin_37, Raptor_38, SJay_38, Baines_37
- Track 123 : BeautPeep30_38, Phireproof_38, Den3_38, Thompsone_38, Lovelyunicorn_38, Gargoyle_38, Knox_38, Oxtober96_38, BonesMcCoy_38, Velene_38, Convict_38
- Track 124 : McGalleon_40
- Track 125 : ManRay_37, MillyPhilly_38, MaeLinda_38, Tenda_37, AlexAdler_38, PhredFlintston_38, TinSulphur_38, Peep_38, Phiderman_38, Superfresh_38, Byron23_38, Pherferi_38, Rapheph_38, Stanktossa_38, Christoph_37, Espinosa_37, Inventa_38, Aubergine_37, Kurt1_38, Janus167_37, Robinson_38, TatarkaPM_38, NickSell_38, Martin_39, Bandik_38, Dave_38, Oats_37, Dothraki_38, Renzie_38
- Track 126 : Riyhil_38, AxiPup_38, PuppyEggo_38, WildNOut_38, Alyxandracam_38, ParleG_38, Strathdee_38, ShaiHulud_38, Thorongil_38, MrWorldwide_38
- Track 127 : Raccoon_37, Schnapsidee_37, Peppino_37, BeeBee8_38
- Track 128 : Antoinette_38

- Track 129 : Endor_38
- Track 130 : Symere_38, Shee_38, SoilGremlin_38, Nattles_37, Bonino_37, Garey24_37, Kale_37, Ludgate_38, OldNelly_38, Phriends_38, Delphidian_38, Sedgewig_37
- Track 131 : CarisSwetlik_41
- Track 132 : Chako_37, Ioannes_38, StirfryIV_37, HankSprout_38, AranulaLuti_37, Clancy_37, Rog141_37, HanSolo_37, Gubbabump_37, Benjalauren_38, Zada_38, Duocatuli_37, HungryHenry_37, JeriBeth_38, Papafritta_37, Jerbirus_38, Ilzat_37, Winzigespinne_37, StingRay_37, JasperRussell_37, Figueroism_38, KannH_37
- Track 133 : FarmerDoug_37
- Track 134 : Stormbreaker8_37, Etna_37, KingJulien_37
- Track 135 : BigRedClifford_38, Teagan_38, Blage_38
- Track 136 : Hamlet_37, Leafus_37
- Track 137 : Redfield_37
- Track 138 : GardenB_37
- Track 139 : Jenos_41
- Track 140 : Greys_38
- Track 141 : JasonD_42
- Track 142 : Agente005_38
- Track 143 : Balsa_37
- Track 144 : Acosta_39
- Track 145 : Vispistious_38
- Track 146 : MonChoix_36
- Track 147 : Mandalorian_35, Quartz_36, Nucci_35
- Track 148 : Carostasia_35
- Track 149 : Juanyo_36
- Track 150 : YuuY_36
- Track 151 : Ixel_36
- Track 152 : Scissor2024_36, Schimmels22_36
- Track 153 : WestPM_34
- Track 154 : Tinyman4_36, HerculesXL_36
- Track 155 : ChikPic_37, Saratos_37, Shamu_37, ColaCorta_37, Eleri_37
- Track 156 : Andromedas_37, Glamour_36
- Track 157 : Phanita_36, MCubed_37, Finny_37, Zenitsu_37
- Track 158 : Sansa_36
- Track 159 : Casey_34, Pajaza_34, Pikmin_34
- Track 160 : Koji_36
- Track 161 : Lucky3_36, Golden_36
- Track 162 : Jingles_36, BouleyBill_35
- Track 163 : Bustleton_36, Sinatra_36, Pherbot_36
- Track 164 : Guetzie_36, SirVictor_36
- Track 165 : RenegadeRaider_37
- Track 166 : PrincePhergus_36
- Track 167 : Kauala_36
- Track 168 : LilTerminator_36
- Track 169 : Librie_35, Zayuliv_35, Wardwill_37, CaptainRex_35, Hasitha_35, Zepp_36, Fulton_35, BaronJohn_36
- Track 170 : Clock_35, Nebulous_35
- Track 171 : Neferthena_35
- Track 172 : QuadZero_35
- Track 173 : Alakazam_36
- Track 174 : GreenIvy_35
- Track 175 : WilliamStrong_36

- Track 176 : KatChan_38, Luna18_38, Chepli_38
- Track 177 : Morrigan_38
- Track 178 : Jemerald_39, Juicer_39
- Track 179 : Schubert_35
- Track 180 : Cheeto1_38, ChickenKing_37
- Track 181 : GaeCeo_38
- Track 182 : JingleBells_43, Erudite_42, Dauntless_42, MortySmith_41
- Track 183 : Rachella_43
- Track 184 : Potty_43, OverHedge_43, Krampus_43, PhunaPhoke_43, Kate_44, CoolCookie_43, Neptune_43, Gilda_43, Cybele_43
- Track 185 : Karate_42
- Track 186 : Sparcetus_46
- Track 187 : JDawG_42, Aesir_42
- Track 188 : Crestdrop_43
- Track 189 : Hiddenleaf_43, Chivey_43, FreddieHg_43, Annapurna_44, DannyDe_43
- Track 190 : Kors_47, TinyMiny_46, Ajin_46
- Track 191 : Anakin_43, AnnaSerena_43, Pharpay_43, Artiphact_43, NarutoRun_43
- Track 192 : Hager_44
- Track 193 : Snakehole_43
- Track 194 : RikSengupta_46
- Track 195 : Tedro_43
- Track 196 : SilentWarrior_43
- Track 197 : Rie18_43
- Track 198 : LordBart_46
- Track 199 : Poultruss_42
- Track 200 : Haunter_43
- Track 201 : C3PO_69, Cruella_69
- Track 202 : Stickynote_69, Darwin_70
- Track 203 : Kimchi1738_70
- Track 204 : Zion_69, PeteyPab_68, PotatoChip_69
- Track 205 : Triscuit_78
- Track 206 : Huwbert_79
- Track 207 : Megatron06_68, Thumb_68, Phreeze_66
- Track 208 : Damien_67, Beckerton_66
- Track 209 : Predator_68
- Track 210 : Konstantine_71
- Track 211 : Oaker_67
- Track 212 : Puissant_69
- Track 213 : Cborch11_69
- Track 214 : DrLupo_75
- Track 215 : Barnyard_72
- Track 216 : Rope_69, Candle_67, Papyrus_69, Nilo_71, Riparian_71, Weiss13_69
- Track 217 : Send513_69, Zenon_71
- Track 218 : MontyDev_71
- Track 219 : Yelo_68
- Track 220 : Patience_81, Labelle_80
- Track 221 : Madruga_79
- Track 222 : Wollypog_46
- Track 223 : ChewyVIII_80
- Track 224 : P1201_73
- Track 225 : Shrew_83

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

The start number called the most often in the published annotations is 55, it was called in 127 of the 419 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_39, Agente005_38, AlexAdler_38, Alyxandracam_38, Antoinette_38, AranulaLuti_37, Asta_37, Aubergine_37, AxiPup_38, Baines_37, Bandik_38, BeautPeep30_38, BeeBee8_38, Benjalauren_38, BigRedClifford_38, Blage_38, BonesMcCoy_38, Bonino_37, Byron23_38, Calix_37, Casey_34, Chako_37, Chamuel_37, Cheeto1_38, ChickenKing_37, Christoph_37, Clancy_37, Convict_38, Dave_38, Delphidian_38, Den3_38, Dothraki_38, Duocatuli_37, Erla_37, Espinosa_37, Etna_37, Etta_37, Exploradora_38, FarmerDoug_37, Figueroism_38, GaeCeo_38, GardenB_37, Garey24_37, Gargoyle_38, Gelo_37, Gershwin_37, Gubbabump_37, Guetzie_36, Hamlet_37, HanSolo_37, HankSprout_38, HerculesXL_36, HungryHenry_37, Ilzat_37, Inventa_38, Ioannes_38, Janus167_37, JasonD_42, JasperRussell_37, Jenos_41, Jerbirus_38, JeriBeth_38, Kale_37, KannH_37, KingJulien_37, Klimt_37, Knox_38, Kurt1_38, Leafus_37, Lovelyunicorn_38, Ludgate_38, MaeLinda_38, ManRay_37, Martin_39, McGalleon_40, MillyPhilly_38, MonChoix_36, MrWorldwide_38, Nagem_38, Nattles_37, NickSell_38, Oats_37, OldNelly_38, Oxtober96_38, Pajaza_34, Papafritta_37, ParleG_38, Peep_38, Peppino_37, Pherferi_38, Phiderman_38, Phireproof_38, PhredFlintston_38, Phriends_38, Pikmin_34, Pocket_37, PuppyEggo_38, Raccoon_37, Rapheph_38, Raptor_38, Redfield_37, Renzie_38, Riyhil_38, Robinson_38, Rog141_37, SJay_38, Schimmels22_36, Schnapsidee_37, Schubert_35, Scissor2024_36, Sedgewig_37, ShaiHulud_38, Shee_38, SirVictor_36, SoilGremlin_38, SonOfLevi_37, Stanktossa_38, StingRay_37, StirfryIV_37, Stormbreaker8_37, Strathdee_38, Superfresh_38, Symere_38, TatarkaPM_38, Teagan_38, TeddyBear_37, Tenda_37, Thompsone_38, Thorongil_38, TinSulphur_38, Tinyman4_36, Velene_38, WestPM_34, WildNOut_38, Winzigespinne_37, Zada_38,

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

- Balsa_37, CarisSwetlik_41, Endor_38, Greys_38, Jemerald_39, Juicer_39, Vispistious_38,

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

- 8UZL_43, Adjutor_56, Aesir_42, Agatha_41, AikoCarson_42, Aikoy_74, Ajin_46, Alakazam_36, Alephilan_66, Alyssamiracle_68, Amok_42, Anakin_43, AndPeggy_38, Andromedas_37, AnnaSerena_43, Annapurna_44, Apeppi_60, Apiary_67, Arti_65, Artiphact_43, Astralis_66, Avian_64, Axym_40, Azira_39, Barnyard_72, BaronJohn_36, Bavailard_42, Beckerton_66, BiPauneto_69, BigChungus_42, BigMama_55, BillDoor_41, BirthdayBoy_67, Biskit_43, Blondies_43, Bonum_70, BouleyBill_35, Braxoaddie_67, Buggaboo_68, Burnsey_41, Bustleton_36, Butterscotch_56, Button_45, Buttrmilkdreams_43, C3PO_69, Candle_67, CanesSauce_40, CaptainRex_35, Carostasia_35, Carsonalex_44, Cborch11_69, Chepli_38, CherryonLim_44, ChewyVIII_80, ChickenTender_44, ChikPic_37, Chill_59, Chivey_43, ChocoMunchkin_40, Cleo_37, Clock_35, CoffeeBean_67, ColaCorta_37, Commandaria_67, CoolCookie_43, Cozz_39, Crestdrop_43, Cruella_69, Cuke_76, Cybele_43, Dalilpop_70, Damien_67, DannyDe_43, Darwin_70, Dauntless_42, DaviePasture_65, Delton_58, DoobyDoo_64, DrLupo_75, Dre3_37, Dryad_70, DumpTruck_64, Eleri_37, Elinal_46, Elliott_41, Emalyn_41,

Emianna_66, Ennea_73, Erk16_56, Erudite_42, Erutan_65, FF47_42, Feastonyeet_42, Finny_37, Flapper_69, Float294_67, Fowlmouth_77, Foxboro_67, FreddieHg_43, Fribs8_38, Fulcrum_65, Fulton_35, Fury_75, GOATification_65, GRU1_55, GTE2_33, GTE5_55, GTE8_55, Genamy16_68, GiKK_47, Gibbin_67, Gibbous_37, Gibson_66, Gilda_43, Giuseppe_58, Glamour_36, GoldHunter_42, Golden_36, Greenlvy_35, Gretellyn_65, GrootJr_68, Gumball_57, GuyFagieri_66, Hager_44, Hasitha_35, Haunter_43, Hawkeye_60, Helpful_60, Hexbug_49, Hiddenleaf_43, HippoPololi_39, Horseradish_43, HubbaBubba_62, Huwburt_79, IDyn_65, Indlulamithi_68, Ixel_36, JDawG_42, JacoRen57_39, Jalebi_64, Jamemuya19_65, Jamzy_47, Jifall16_66, JingleBells_43, Jingles_36, Juanyo_36, Kabluna_69, KandZ_56, Karate_42, KatChan_38, Kate_44, Kauala_36, KayGee_44, KidneyBean_67, KimJongPhill_82, Kimchi1738_70, Koji_36, Konstantine_71, Kors_47, Krampus_43, Kurt_66, Labelle_80, Lambo_63, Lauer_39, Leopard_73, Librie_35, LilTerminator_36, Lila22_66, Lizz_66, Lollipop1437_70, LordBart_46, Lucky3_36, LuckyLeo_62, Luna18_38, MAnor_44, MCubed_37, MScarn_45, MaVan_39, MacGully_76, Maco6_41, Madruga_79, Mandalorian_35, Margaret_48, Marietta_68, Maselop_67, Mayweather_46, Megatron06_68, MerCougar_69, Mercedes_32, Mima20_66, MoiGyank_68, MontyDev_71, Mopey_58, Morrigan_38, MortySmith_41, MrMiyagi_76, Muddy_43, MunkgeeRoachy_39, NadineRae_67, NarutoRun_43, NatB6_66, Nebulous_35, Neferthena_35, Neptune_43, Nibbles_38, Nilo_71, Nina_40, NoShow_51, Nodigi_49, NorManre_69, NosilaM_69, NovaSharks_67, Nova_56, NovumRegina_66, Nucci_35, Oaker_67, Onyinye_74, Orla_49, OtterstedtS21_65, Outis_67, OverHedge_43, P1201_73, PBI1_54, PHTown_66, PLOT_57, Papyrus_69, ParvusTarda_64, Patience_81, Patio_68, Patos_69, Penelope2018_57, PeteyPab_68, Phanita_36, Pharpay_43, Pherbot_36, Phomeo_67, Phreeze_66, PhunaPhoke_43, Pleakley_75, Polyuyki_67, Pons_44, PotPie_43, PotatoChip_69, Potty_43, Poultruss_42, Prager_57, Predator_68, PrincePhergus_36, PsychoKiller_40, Puissant_69, QuadZero_35, Quartz_36, Quasar_41, Rachella_43, RanchParmCat_47, Ranch_65, RazorC_65, RedBaron_43, RedRaider_73, RenegadeRaider_37, Rie18_43, RikSengupta_46, Riparian_71, Rooney_66, Rope_69, Rumi_66, Sadboi_66, Sampudon_65, Sansa_36, Saratos_37, Scuba_76, Send513_69, ShakeNBake_66, Shamu_37, SheckWes_46, Shrew_83, SilentWarrior_43, Sinatra_36, SirHarley_59, SketchMex_41, Skysand_68, Snakehole_43, Sopespian_40, Sparcetuss_46, StarStruck_67, Starburst_42, SteamedHams_42, Stickynote_69, Sukkupi_67, SummitAcademy_42, SuperSulley_68, Survivors_39, SweatNTears_42, Tedro_43, Thoth_57, Thumb_68, Tillicus_61, TinyMiny_46, Tolls_42, Tracker_66, Triscuit_78, Troje_43, Troll4_57, Turuncu_69, Typhonmarchy_41, Vine_45, Visconti_58, WaldoWhy_59, Wardwill_37, Weiss13_69, Wentworth_66, Wheezy_66, WhoseManz_67, Wilkos_68, WilliamStrong_36, Wojtek_61, Wollypog_46, Xenia2_59, Yakult_43, Yara_62, Yarn_38, Yelo_68, Yikes_67, Yndexa_67, Yucky_46, Yummy_43, YuuY_36, Zany_63, Zareef_41, Zayuliv_35, Zenitsu_37, Zenon_71, Zepp_36, Zion_69, Zuko_80,

Summary by start number:

Start 39:

- Found in 5 of 478 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 20.0% of time when present
- Phage (with cluster) where this start called: RikSengupta_46 (EF),

Start 44:

- Found in 24 of 478 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Andromedas_37 (EA2), Glamour_36 (EA2), Predator_68 (H1),

Start 48:

- Found in 1 of 478 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_80 (singleton),

Start 50:

- Found in 9 of 478 (1.9%) of genes in pham
- Manual Annotations of this start: 8 of 419
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Beckerton_66 (H1), Cborch11_69 (H1), Damien_67 (H1), Konstantine_71 (H1), Megatron06_68 (H1), Oaker_67 (H1), Phreeze_66 (H1), Thumb_68 (H1),

Start 51:

- Found in 1 of 478 (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: Puissant_69 (H1),

Start 52:

- Found in 138 of 478 (28.9%) of genes in pham
- Manual Annotations of this start: 13 of 419
- Called 10.1% of time when present
- Phage (with cluster) where this start called: Balsa_37 (EA1), BouleyBill_35 (EA4), Bustleton_36 (EA4), Endor_38 (EA1), Golden_36 (EA4), Greys_38 (EA1), Jingles_36 (EA4), Kauala_36 (EA4), Koji_36 (EA4), Lucky3_36 (EA4), Pherbot_36 (EA4), PrincePhergus_36 (EA4), Sinatra_36 (EA4), Vispistious_38 (EA1),

Start 53:

- Found in 4 of 478 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 25.0% of time when present
- Phage (with cluster) where this start called: YuuY_36 (EA10),

Start 54:

- Found in 5 of 478 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Ennea_73 (CR3), Lollipop1437_70 (CR3), RedRaider_73 (CR3),

Start 55:

- Found in 143 of 478 (29.9%) of genes in pham
- Manual Annotations of this start: 127 of 419
- Called 95.1% of time when present

- Phage (with cluster) where this start called: Acosta_39 (EA1), Agente005_38 (EA1), AlexAdler_38 (EA1), Alyxandracam_38 (EA1), Antoinette_38 (EA1), AranulaLuti_37 (EA1), Asta_37 (EA1), Aubergine_37 (EA1), AxiPup_38 (EA1), Baines_37 (EA1), Bandik_38 (EA1), BeautPeep30_38 (EA1), BeeBee8_38 (EA1), Benjalauren_38 (EA1), BigRedClifford_38 (EA1), Blage_38 (EA1), BonesMcCoy_38 (EA1), Bonino_37 (EA1), Byron23_38 (EA1), Calix_37 (EA1), Casey_34 (EA3), Chako_37 (EA1), Chamuel_37 (EA1), Cheeto1_38 (EA9), ChickenKing_37 (EA9), Christoph_37 (EA1), Clancy_37 (EA1), Convict_38 (EA1), Dave_38 (EA1), Delphidian_38 (EA1), Den3_38 (EA1), Dothraki_38 (EA1), Duocatuli_37 (EA1), Erla_37 (EA1), Espinosa_37 (EA1), Etna_37 (EA1), Etta_37 (EA1), Exploradora_38 (UNK), FarmerDoug_37 (EA1), Figueroism_38 (EA1), GaeCeo_38 (EA9), GardenB_37 (EA1), Garey24_37 (EA1), Gargoyle_38 (EA1), Gelo_37 (EA1), Gershwin_37 (EA1), Gubbabump_37 (EA1), Guetzie_36 (EA4), Hamlet_37 (EA1), HanSolo_37 (EA1), HankSprout_38 (EA1), HerculesXL_36 (EA11), HungryHenry_37 (EA1), Ilzat_37 (EA1), Inventa_38 (EA1), Ioannes_38 (EA1), Janus167_37 (EA1), JasonD_42 (EA1), JasperRussell_37 (EA1), Jenos_41 (EA1), Jerbirus_38 (EA1), JeriBeth_38 (EA1), Kale_37 (EA1), KannH_37 (EA1), KingJulien_37 (EA1), Klimt_37 (EA1), Knox_38 (EA1), Kurt1_38 (EA1), Leafus_37 (EA1), Lovelyunicorn_38 (EA1), Ludgate_38 (EA1), MaeLinda_38 (EA1), ManRay_37 (EA1), Martin_39 (EA1), McGalleon_40 (EA1), MillyPhilly_38 (EA1), MonChoix_36 (EA1), MrWorldwide_38 (EA1), Nagem_38 (EA1), Nattles_37 (EA1), NickSell_38 (EA1), Oats_37 (EA1), OldNelly_38 (EA1), Oxtober96_38 (EA1), Pajaza_34 (EA3), Papafritta_37 (EA1), ParleG_38 (EA1), Peep_38 (EA1), Peppino_37 (EA1), Pherferi_38 (EA1), Phiderman_38 (EA1), Phireproof_38 (EA1), PhredFlintston_38 (EA1), Phriends_38 (EA1), Pikmin_34 (EA3), Pocket_37 (EA1), PuppyEggo_38 (EA1), Raccoon_37 (EA1), Rapheph_38 (EA1), Raptor_38 (EA1), Redfield_37 (EA1), Renzie_38 (EA1), Riyhil_38 (EA1), Robinson_38 (EA1), Rog141_37 (EA1), SJay_38 (EA1), Schimmels22_36 (EA11), Schnapsidee_37 (EA1), Schubert_35 (EA8), Scissor2024_36 (EA11), Sedgewig_37 (EA1), ShaiHulud_38 (EA1), Shee_38 (EA1), SirVictor_36 (EA4), SoilGremlin_38 (EA1), SonOfLevi_37 (EA1), Stanktossa_38 (EA1), StingRay_37 (EA1), StirfryIV_37 (EA1), Stormbreaker8_37 (EA1), Strathdee_38 (EA1), Superfresh_38 (EA1), Symere_38 (EA1), TatarkaPM_38 (EA1), Teagan_38 (EA1), TeddyBear_37 (EA1), Tenda_37 (EA1), Thompsone_38 (EA1), Thorongil_38 (EA1), TinSulphur_38 (EA1), Tinyman4_36 (EA11), Velene_38 (EA1), WestPM_34 (EA11), WildNOut_38 (EA1), Winzigespinne_37 (EA1), Zada_38 (EA1),

Start 56:

- Found in 3 of 478 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Labelle_80 (U), Madruga_79 (U), Patience_81 (U),

Start 57:

- Found in 9 of 478 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Juanyo_36 (EA10),

Start 58:

- Found in 7 of 478 (1.5%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 57.1% of time when present

- Phage (with cluster) where this start called: Fury_75 (CR5), Patio_68 (CR3), Pleakley_75 (CR5), Scuba_76 (CR5),

Start 60:

- Found in 51 of 478 (10.7%) of genes in pham
- Manual Annotations of this start: 46 of 419
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Adjutor_56 (D1), Aikoy_74 (AE), Apiary_67 (CR), Arti_65 (CR2), Barnyard_72 (H2), BigMama_55 (D1), Braxoaddie_67 (CR), Butterscotch_56 (D1), Chill_59 (D1), CoffeeBean_67 (CR), Commandaria_67 (CR2), Cuke_76 (AC), Delton_58 (D1), DrLupo_75 (H2), Emianna_66 (CR2), Erk16_56 (D1), Fowlmouth_77 (AC), Foxboro_67 (CR2), GTE8_55 (CR2), Giuseppe_58 (D1), GrootJr_68 (CR2), GuyFagieri_66 (CR), Hawkeye_60 (D2), Helpful_60 (D1), Jifall16_66 (CR2), KidneyBean_67 (CR2), Kurt_66 (CR2), Leopard_73 (AE), MacGully_76 (CR), Maselop_67 (CR), Mopey_58 (D1), MrMiyagi_76 (AC), NatB6_66 (CR2), Nova_56 (D1), NovumRegina_66 (CR2), Onyinye_74 (AE), PBI1_54 (D1), PLOT_57 (D1), Penelope2018_57 (D1), Phomeo_67 (CR2), Polyuyki_67 (CR), Prager_57 (D1), Thoth_57 (D1), Tracker_66 (CR2), Troll4_57 (D1), Visconti_58 (D1), WaldoWhy_59 (D1), Wheezy_66 (CR2),

Start 61:

- Found in 38 of 478 (7.9%) of genes in pham
- Manual Annotations of this start: 32 of 419
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Alakazam_36 (EA5), BaronJohn_36 (EA5), CaptainRex_35 (EA5), Carostasia_35 (EA10), Chepli_38 (EA6), ChikPic_37 (EA2), Clock_35 (EA5), ColaCorta_37 (EA2), Eleri_37 (EA2), Finny_37 (EA2), Fulton_35 (EA5), Greenlvy_35 (EA5), Hasitha_35 (EA5), Ixel_36 (EA11), KatChan_38 (EA6), Librie_35 (EA5), LilTerminator_36 (EA5), Luna18_38 (EA6), MCubed_37 (EA2), Mandalorian_35 (EA10), Mercedes_32 (EA), Morrigan_38 (EA6), Nebulous_35 (EA5), Neferthena_35 (EA5), Nucci_35 (EA10), Phanita_36 (EA2), QuadZero_35 (EA5), Quartz_36 (EA10), Sansa_36 (EA2), Saratos_37 (EA2), Shamu_37 (EA2), Wardwill_37 (EA5), WilliamStrong_36 (EA6), Zayuliv_35 (EA5), Zenitsu_37 (EA2), Zepp_36 (EA5),

Start 62:

- Found in 1 of 478 (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: P1201_73 (singleton),

Start 63:

- Found in 39 of 478 (8.2%) of genes in pham
- Manual Annotations of this start: 31 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan_66 (DV), Alyssamiracle_68 (DV), Apeppi_60 (DV), Astralis_66 (DV), Avian_64 (DV), BirthdayBoy_67 (DV), DaviePasture_65 (DV), DoobyDoo_64 (DV), DumpTruck_64 (DV), Erutan_65 (DV), Fulcrum_65 (DV), GOATification_65 (DV), Genamy16_68 (DV), Gibbin_67 (DV), Gretellyn_65 (DV), Jalebi_64 (DV), Jamemuya19_65 (DV), Jemerald_39 (EA6), Juicer_39 (EA6), Lambo_63 (DV), Lila22_66 (DV), LuckyLeo_62 (DV), Mima20_66 (DV), MoiGyank_68 (DV), NorManre_69 (DV), NovaSharks_67 (DV), OtterstedtS21_65 (DV), ParvusTarda_64 (DV), Patos_69 (DV), Ranch_65 (DV),

RazorC_65 (DV), Rumi_66 (DV), Sadboi_66 (DV), Sampudon_65 (DV), Tillicus_61 (DV), Wojtek_61 (DV), Xenia2_59 (DV), Yikes_67 (DV), Zany_63 (DV),

Start 65:

- Found in 53 of 478 (11.1%) of genes in pham
- Manual Annotations of this start: 47 of 419
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Aesir_42 (EF), Anakin_43 (EF), AnnaSerena_43 (EF), Annapurna_44 (EF), Artiphact_43 (EF), BiPauneto_69 (CR4), Bonum_70 (CR2), Buggaboo_68 (CR2), Chivey_43 (EF), CoolCookie_43 (EF), Crestdrop_43 (EF), Cybele_43 (EF), Dalilpop_70 (CR1), DannyDe_43 (EF), Dauntless_42 (EF), Erudite_42 (EF), Flapper_69 (CR1), FreddieHg_43 (EF), GRU1_55 (CR1), Gilda_43 (EF), Hager_44 (EF), Haunter_43 (EF), Hiddenleaf_43 (EF), IDyn_65 (CR4), JDawG_42 (EF), JingleBells_43 (EF), Kabluna_69 (CR2), Karate_42 (EF), Kate_44 (EF), Krampus_43 (EF), Marietta_68 (CR4), MerCougar_69 (CR2), MortySmith_41 (EF), NadineRae_67 (CR4), NarutoRun_43 (EF), Neptune_43 (EF), NosilaM_69 (CR2), Outis_67 (CR2), OverHedge_43 (EF), Pharpay_43 (EF), PhunaPhoke_43 (EF), Potty_43 (EF), Poultruss_42 (EF), Rie18_43 (EF), SilentWarrior_43 (EF), Snakehole_43 (EF), StarStruck_67 (CR2), Sukkupi_67 (CR4), SuperSulley_68 (CR2), Tedro_43 (EF), WhoseManz_67 (CR4), Yindexa_67 (CR4),

Start 66:

- Found in 15 of 478 (3.1%) of genes in pham
- Manual Annotations of this start: 10 of 419
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Candle_67 (R), Indlulamithi_68 (AC), MontyDev_71 (R), Nilo_71 (R), Papyrus_69 (R), RenegadeRaider_37 (EA4), Riparian_71 (R), Rope_69 (R), Send513_69 (R), Weiss13_69 (R), Yelo_68 (R), Zenon_71 (R),

Start 67:

- Found in 8 of 478 (1.7%) of genes in pham
- Manual Annotations of this start: 7 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_70 (BN), Gibson_66 (BN), Lizz_66 (BN), PHTowN_66 (BN), Rooney_66 (BN), ShakeNBake_66 (BN), Wentworth_66 (BN), Wilkos_68 (BN),

Start 68:

- Found in 6 of 478 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Ajin_46 (EF), Kors_47 (EF), Sparcetus_46 (EF), TinyMiny_46 (EF),

Start 69:

- Found in 11 of 478 (2.3%) of genes in pham
- Manual Annotations of this start: 10 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_69 (EN), Cruella_69 (EN), Darwin_70 (EN), GTE2_33 (CT), Kimchi1738_70 (EN), PeteyPab_68 (EN), PotatoChip_69 (EN), Stickynote_69 (EN), Wollypog_46 (singleton), Yara_62 (BN), Zion_69 (EN),

Start 70:

- Found in 2 of 478 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Shrew_83 (singleton),

Start 72:

- Found in 2 of 478 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Huwbert_79 (GG), Triscuit_78 (GG),

Start 74:

- Found in 45 of 478 (9.4%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 4.4% of time when present
- Phage (with cluster) where this start called: LordBart_46 (EF), Rachella_43 (EF),

Start 76:

- Found in 2 of 478 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Float294_67 (CR3), Skysand_68 (CR3),

Start 77:

- Found in 1 of 478 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_51 (AB),

Start 79:

- Found in 2 of 478 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KimJongPhill_82 (BR), Zuko_80 (BR),

Start 80:

- Found in 9 of 478 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 11.1% of time when present
- Phage (with cluster) where this start called: SketchMex_41 (CT),

Start 82:

- Found in 21 of 478 (4.4%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Gumball_57 (D1), KandZ_56 (D1), SirHarley_59 (D1),

Start 87:

- Found in 5 of 478 (1.0%) of genes in pham
- No Manual Annotations of this start.

- Called 20.0% of time when present
- Phage (with cluster) where this start called: CarisSwetlik_41 (EA1),

Start 88:

- Found in 3 of 478 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cleo_37 (CT), Dre3_37 (CT), Gibbous_37 (CT),

Start 92:

- Found in 1 of 478 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lauer_39 (CT),

Start 93:

- Found in 1 of 478 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Axym_40 (CT),

Start 96:

- Found in 22 of 478 (4.6%) of genes in pham
- Manual Annotations of this start: 17 of 419
- Called 90.9% of time when present
- Phage (with cluster) where this start called: 8UZL_43 (AB), Azira_39 (CT), BigChungus_42 (CT), CherryonLim_44 (CT), FF47_42 (AB), Feastonyeet_42 (CT), Fribs8_38 (CT), HippoPololi_39 (CT), MAnor_44 (CT), MaVan_39 (CT), Maco6_41 (AB), Mayweather_46 (CT), Muddy_43 (AB), Nibbles_38 (CT), Pons_44 (CT), PotPie_43 (CT), SummitAcademy_42 (CT), Survivors_39 (CT), Vine_45 (CT), Zareef_41 (CT),

Start 98:

- Found in 3 of 478 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Button_45 (CT), GiKK_47 (CT), Jamzy_47 (CT),

Start 99:

- Found in 8 of 478 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Bavilard_42 (CT), Margaret_48 (CT), Yucky_46 (CT),

Start 100:

- Found in 11 of 478 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 419
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Agatha_41 (CT), Cozz_39 (CT),

Start 101:

- Found in 6 of 478 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 419
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Hexbug_49 (CT), Nodigi_49 (CT), Orla_49 (CT),

Start 102:

- Found in 2 of 478 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SheckWes_46 (CT),

Start 103:

- Found in 37 of 478 (7.7%) of genes in pham
- Manual Annotations of this start: 22 of 419
- Called 91.9% of time when present
- Phage (with cluster) where this start called: AikoCarson_42 (CT), Amok_42 (CT), AndPeggy_38 (CT), BillDoor_41 (CT), Biskit_43 (CT), Blondies_43 (CT), Burnsey_41 (CT), Buttrmlkdreams_43 (CT), CanesSauce_40 (CT), Carsonalex_44 (CT), ChickenTender_44 (CT), ChocoMunchkin_40 (CT), Elinal_46 (CT), Elliott_41 (CT), Emalyn_41 (CT), GoldHunter_42 (CT), Horseradish_43 (CT), KayGee_44 (CT), MScarn_45 (CT), MunkgeeRoachy_39 (CT), Nina_40 (CT), PsychoKiller_40 (CT), Quasar_41 (CT), RedBaron_43 (CT), Sopespian_40 (CT), Starburst_42 (CT), SteamedHams_42 (CT), SweatNTears_42 (CT), Tolls_42 (CT), Troje_43 (CT), Typhonomachy_41 (CT), Yakult_43 (CT), Yarn_38 (CT), Yummy_43 (CT),

Start 109:

- Found in 3 of 478 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 33.3% of time when present
- Phage (with cluster) where this start called: RanchParmCat_47 (CT),

Start 116:

- Found in 82 of 478 (17.2%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 1.2% of time when present
- Phage (with cluster) where this start called: JacoRen57_39 (AB),

Start 136:

- Found in 17 of 478 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 5.9% of time when present
- Phage (with cluster) where this start called: HubbaBubba_62 (CR4),

Start 138:

- Found in 13 of 478 (2.7%) of genes in pham
- Manual Annotations of this start: 1 of 419
- Called 15.4% of time when present
- Phage (with cluster) where this start called: GTE5_55 (CR1), Turuncu_69 (CR1),

Summary by clusters:

There are 35 clusters represented in this pham: singleton, BN, AB, BR, DV, UNK, EA6, AC, EN, AE, EF, EA, EA9, EA8, R, U, EA1, CR, EA3, EA2, EA5, EA4, CT, CR2, CR3, CR1, EA11, EA10, CR4, CR5, GG, H1, H2, D2, D1,

Info for manual annotations of cluster AB:

- Start number 77 was manually annotated 1 time for cluster AB.
- Start number 96 was manually annotated 2 times for cluster AB.
- Start number 116 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:

- Start number 60 was manually annotated 3 times for cluster AC.
- Start number 66 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AE:

- Start number 60 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster BN:

- Start number 67 was manually annotated 7 times for cluster BN.
- Start number 69 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BR:

- Start number 79 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CR:

- Start number 60 was manually annotated 7 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 65 was manually annotated 2 times for cluster CR1.
- Start number 138 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 60 was manually annotated 12 times for cluster CR2.
- Start number 65 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 54 was manually annotated 2 times for cluster CR3.
- Start number 58 was manually annotated 1 time for cluster CR3.
- Start number 76 was manually annotated 2 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 65 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 58 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CT:

- Start number 80 was manually annotated 1 time for cluster CT.
- Start number 88 was manually annotated 3 times for cluster CT.
- Start number 92 was manually annotated 1 time for cluster CT.
- Start number 93 was manually annotated 1 time for cluster CT.
- Start number 96 was manually annotated 15 times for cluster CT.
- Start number 98 was manually annotated 3 times for cluster CT.
- Start number 99 was manually annotated 1 time for cluster CT.

- Start number 100 was manually annotated 2 times for cluster CT.
- Start number 101 was manually annotated 3 times for cluster CT.
- Start number 102 was manually annotated 1 time for cluster CT.
- Start number 103 was manually annotated 22 times for cluster CT.
- Start number 109 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster D1:

- Start number 60 was manually annotated 18 times for cluster D1.
- Start number 82 was manually annotated 3 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 60 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DV:

- Start number 63 was manually annotated 29 times for cluster DV.

Info for manual annotations of cluster EA:

- Start number 61 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:

- Start number 52 was manually annotated 4 times for cluster EA1.
- Start number 55 was manually annotated 114 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 53 was manually annotated 1 time for cluster EA10.
- Start number 57 was manually annotated 1 time for cluster EA10.
- Start number 61 was manually annotated 4 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 55 was manually annotated 4 times for cluster EA11.
- Start number 61 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 44 was manually annotated 2 times for cluster EA2.
- Start number 61 was manually annotated 9 times for cluster EA2.

Info for manual annotations of cluster EA3:

- Start number 55 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:

- Start number 52 was manually annotated 9 times for cluster EA4.
- Start number 55 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA5:

- Start number 61 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 61 was manually annotated 5 times for cluster EA6.
- Start number 63 was manually annotated 2 times for cluster EA6.

Info for manual annotations of cluster EA8:

- Start number 55 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:

- Start number 55 was manually annotated 3 times for cluster EA9.

Info for manual annotations of cluster EF:

- Start number 39 was manually annotated 1 time for cluster EF.
- Start number 65 was manually annotated 30 times for cluster EF.
- Start number 68 was manually annotated 3 times for cluster EF.
- Start number 74 was manually annotated 1 time for cluster EF.

Info for manual annotations of cluster EN:

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

Info for manual annotations of cluster GG:

- Start number 72 was manually annotated 2 times for cluster GG.

Info for manual annotations of cluster H1:

- Start number 44 was manually annotated 1 time for cluster H1.
- Start number 50 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 60 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster R:

- Start number 66 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:

- Start number 56 was manually annotated 3 times for cluster U.

Gene Information:

Gene: 8UZL_43 Start: 31938, Stop: 30922, Start Num: 96

Candidate Starts for 8UZL_43:

(Start: 96 @31938 has 17 MA's), (123, 31845), (124, 31842), (145, 31755), (171, 31668), (185, 31611), (189, 31596), (202, 31542), (240, 31359), (305, 31188), (308, 31173), (313, 31152), (344, 31026), (353, 30975), (358, 30954),

Gene: Acosta_39 Start: 27483, Stop: 26302, Start Num: 55

Candidate Starts for Acosta_39:

(27, 27552), (Start: 52 @27492 has 13 MA's), (Start: 55 @27483 has 127 MA's), (113, 27354), (168, 27138), (193, 27045), (197, 27030), (239, 26787), (248, 26751), (253, 26721), (272, 26691), (274, 26688), (277, 26679), (309, 26565), (321, 26520), (341, 26436), (355, 26361),

Gene: Adjutor_56 Start: 43047, Stop: 44225, Start Num: 60

Candidate Starts for Adjutor_56:

(5, 42765), (7, 42795), (15, 42858), (Start: 60 @43047 has 46 MA's), (Start: 82 @43095 has 3 MA's), (104, 43134), (108, 43146), (130, 43245), (146, 43308), (160, 43362), (171, 43410), (195, 43476), (217, 43590), (220, 43617), (226, 43647), (236, 43692), (306, 43926), (323, 43992), (326, 44001), (330, 44010), (356, 44136), (372, 44217),

Gene: Aesir_42 Start: 28494, Stop: 29621, Start Num: 65

Candidate Starts for Aesir_42:

(1, 28101), (4, 28182), (Start: 65 @28494 has 47 MA's), (Start: 74 @28515 has 1 MA's), (140, 28725), (160, 28788), (183, 28884), (209, 28989), (236, 29139), (293, 29307), (309, 29373), (344, 29514), (353, 29571),

Gene: Agatha_41 Start: 29791, Stop: 28760, Start Num: 100

Candidate Starts for Agatha_41:

(95, 29797), (Start: 100 @29791 has 2 MA's), (147, 29620), (171, 29533), (185, 29476), (202, 29407), (209, 29374), (220, 29296), (237, 29245), (305, 29050), (309, 29032), (313, 29014), (335, 28930), (339, 28912),

Gene: Agente005_38 Start: 27312, Stop: 26134, Start Num: 55

Candidate Starts for Agente005_38:

(27, 27381), (Start: 52 @27321 has 13 MA's), (Start: 55 @27312 has 127 MA's), (113, 27186), (114, 27183), (172, 26952), (177, 26934), (193, 26877), (197, 26862), (239, 26619), (248, 26583), (253, 26553), (272, 26523), (274, 26520), (309, 26397), (336, 26301), (341, 26268),

Gene: AikoCarson_42 Start: 30036, Stop: 29008, Start Num: 103

Candidate Starts for AikoCarson_42:

(Start: 103 @30036 has 22 MA's), (155, 29841), (171, 29778), (197, 29676), (203, 29649), (220, 29541), (237, 29490), (288, 29361), (291, 29352), (305, 29295), (309, 29277), (313, 29259), (335, 29175),

Gene: Aikoy_74 Start: 50610, Stop: 51827, Start Num: 60

Candidate Starts for Aikoy_74:

(Start: 60 @50610 has 46 MA's), (Start: 74 @50637 has 1 MA's), (97, 50691), (111, 50736), (125, 50802), (127, 50814), (141, 50874), (148, 50904), (149, 50907), (158, 50934), (163, 50961), (197, 51090), (214, 51210), (216, 51216), (233, 51306), (241, 51348), (245, 51366), (249, 51384), (283, 51447), (306, 51531), (326, 51606), (329, 51612), (330, 51615), (344, 51684), (346, 51693), (354, 51738), (366, 51795),

Gene: Ajin_46 Start: 29709, Stop: 30806, Start Num: 68

Candidate Starts for Ajin_46:

(Start: 39 @29655 has 1 MA's), (Start: 68 @29709 has 3 MA's), (71, 29712), (Start: 74 @29718 has 1 MA's), (140, 29928), (142, 29934), (158, 29979), (160, 29991), (176, 30054), (183, 30087), (209, 30192), (238, 30354), (293, 30489), (301, 30513), (346, 30705), (353, 30753),

Gene: Alakazam_36 Start: 26644, Stop: 25469, Start Num: 61

Candidate Starts for Alakazam_36:

(19, 26788), (29, 26716), (33, 26710), (Start: 61 @26644 has 32 MA's), (113, 26530), (160, 26344), (188, 26236), (190, 26224), (193, 26212), (197, 26197), (206, 26146), (221, 26056), (274, 25855), (294, 25795), (299, 25780), (341, 25603), (347, 25567),

Gene: Alephilan_66 Start: 44039, Stop: 45202, Start Num: 63

Candidate Starts for Alephilan_66:

(Start: 63 @44039 has 31 MA's), (73, 44054), (121, 44183), (139, 44273), (140, 44276), (151, 44312), (160, 44345), (195, 44459), (203, 44486), (209, 44525), (210, 44540), (211, 44549), (216, 44570), (220, 44600), (224, 44615), (226, 44630), (236, 44675), (237, 44678), (250, 44753), (265, 44774), (281, 44813), (309, 44915), (323, 44969), (326, 44978), (330, 44987), (337, 45011), (352, 45104),

Gene: AlexAdler_38 Start: 27073, Stop: 25898, Start Num: 55

Candidate Starts for AlexAdler_38:

(21, 27193), (27, 27142), (Start: 52 @27082 has 13 MA's), (Start: 55 @27073 has 127 MA's), (113, 26950), (Start: 116 @26935 has 1 MA's), (177, 26698), (193, 26641), (197, 26626), (248, 26347), (253, 26317), (272, 26287), (274, 26284), (305, 26179), (309, 26161), (312, 26149), (321, 26116), (336, 26065), (341, 26032),

Gene: Alyssamiracle_68 Start: 43081, Stop: 44298, Start Num: 63

Candidate Starts for Alyssamiracle_68:

(Start: 63 @43081 has 31 MA's), (73, 43096), (121, 43225), (139, 43315), (140, 43318), (151, 43354), (160, 43387), (195, 43501), (203, 43528), (209, 43567), (210, 43582), (216, 43612), (220, 43642), (226, 43672), (237, 43720), (281, 43909), (323, 44065), (326, 44074), (330, 44083), (337, 44107), (346, 44161), (352, 44200), (372, 44290),

Gene: Alyxandracam_38 Start: 27083, Stop: 25908, Start Num: 55

Candidate Starts for Alyxandracam_38:

(21, 27203), (27, 27152), (Start: 52 @27092 has 13 MA's), (Start: 55 @27083 has 127 MA's), (113, 26960), (Start: 116 @26945 has 1 MA's), (132, 26858), (177, 26708), (193, 26651), (248, 26357), (253, 26327), (272, 26297), (274, 26294), (305, 26189), (309, 26171), (312, 26159), (321, 26126), (336, 26075), (341, 26042),

Gene: Amok_42 Start: 30060, Stop: 29032, Start Num: 103

Candidate Starts for Amok_42:

(Start: 103 @30060 has 22 MA's), (155, 29865), (171, 29802), (197, 29700), (203, 29673), (220, 29565), (237, 29514), (244, 29481), (288, 29385), (291, 29376), (305, 29319), (309, 29301), (313, 29283), (316, 29271), (335, 29199), (339, 29181), (351, 29106),

Gene: Anakin_43 Start: 28820, Stop: 29974, Start Num: 65

Candidate Starts for Anakin_43:

(1, 28421), (Start: 65 @28820 has 47 MA's), (Start: 74 @28841 has 1 MA's), (107, 28910), (140, 29051), (160, 29114), (183, 29210), (209, 29315), (236, 29465), (253, 29555), (266, 29591), (281, 29621), (309, 29726), (324, 29783), (344, 29867), (353, 29924),

Gene: AndPeggy_38 Start: 29466, Stop: 28432, Start Num: 103

Candidate Starts for AndPeggy_38:

(Start: 103 @29466 has 22 MA's), (155, 29271), (171, 29208), (197, 29106), (220, 28971), (288, 28791), (291, 28782), (305, 28725), (309, 28707), (313, 28689), (335, 28605),

Gene: Andromedas_37 Start: 26832, Stop: 25642, Start Num: 44

Candidate Starts for Andromedas_37:

(40, 26841), (Start: 44 @26832 has 3 MA's), (Start: 61 @26805 has 32 MA's), (113, 26694), (114, 26691), (122, 26646), (172, 26460), (182, 26427), (188, 26409), (193, 26385), (197, 26370), (206, 26319), (221, 26229), (248, 26091), (253, 26061), (272, 26031), (282, 26004), (310, 25902), (336, 25809), (341, 25776), (345, 25752), (347, 25740),

Gene: AnnaSerena_43 Start: 28855, Stop: 30009, Start Num: 65

Candidate Starts for AnnaSerena_43:

(1, 28456), (Start: 65 @28855 has 47 MA's), (Start: 74 @28876 has 1 MA's), (107, 28945), (140, 29086), (160, 29149), (183, 29245), (209, 29350), (236, 29500), (253, 29590), (266, 29626), (281, 29656), (309, 29761), (324, 29818), (344, 29902), (353, 29959),

Gene: Annapurna_44 Start: 28123, Stop: 29250, Start Num: 65

Candidate Starts for Annapurna_44:

(1, 27730), (3, 27796), (4, 27811), (Start: 65 @28123 has 47 MA's), (Start: 74 @28144 has 1 MA's), (115, 28240), (140, 28354), (160, 28417), (183, 28513), (209, 28618), (236, 28768), (293, 28936),

(309, 29002), (324, 29059), (344, 29143), (353, 29200),

Gene: Antoinette_38 Start: 27070, Stop: 25895, Start Num: 55

Candidate Starts for Antoinette_38:

(21, 27190), (27, 27139), (Start: 52 @27079 has 13 MA's), (Start: 55 @27070 has 127 MA's), (113, 26947), (Start: 116 @26932 has 1 MA's), (193, 26638), (197, 26623), (248, 26344), (253, 26314), (272, 26284), (274, 26281), (305, 26176), (309, 26158), (312, 26146), (321, 26113), (336, 26062), (341, 26029),

Gene: Apeppi_60 Start: 43297, Stop: 44457, Start Num: 63

Candidate Starts for Apeppi_60:

(Start: 63 @43297 has 31 MA's), (73, 43312), (121, 43441), (139, 43531), (153, 43576), (160, 43603), (203, 43744), (210, 43795), (216, 43825), (220, 43855), (237, 43933), (249, 43993), (250, 44008), (260, 44029), (281, 44068), (283, 44074), (311, 44176), (323, 44224), (326, 44233), (337, 44266), (352, 44359), (372, 44449),

Gene: Apiary_67 Start: 50069, Stop: 48903, Start Num: 60

Candidate Starts for Apiary_67:

(18, 50207), (41, 50099), (Start: 60 @50069 has 46 MA's), (131, 49871), (160, 49748), (178, 49673), (203, 49610), (206, 49583), (222, 49490), (225, 49475), (229, 49451), (236, 49424), (237, 49421), (297, 49211), (307, 49163), (326, 49094), (329, 49088), (353, 48962),

Gene: AranulaLuti_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for AranulaLuti_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Arti_65 Start: 52065, Stop: 50866, Start Num: 60

Candidate Starts for Arti_65:

(Start: 60 @52065 has 46 MA's), (152, 51777), (153, 51774), (159, 51753), (160, 51747), (220, 51474), (223, 51462), (226, 51444), (234, 51411), (237, 51396), (253, 51309), (281, 51222), (295, 51180), (296, 51177), (309, 51120), (324, 51063), (325, 51060), (326, 51057), (330, 51048), (350, 50940), (357, 50916),

Gene: Artiphact_43 Start: 28844, Stop: 29998, Start Num: 65

Candidate Starts for Artiphact_43:

(1, 28445), (Start: 65 @28844 has 47 MA's), (Start: 74 @28865 has 1 MA's), (107, 28934), (140, 29075), (160, 29138), (183, 29234), (209, 29339), (236, 29489), (253, 29579), (266, 29615), (281, 29645), (309, 29750), (324, 29807), (344, 29891), (353, 29948),

Gene: Asta_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for Asta_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (119, 26624), (177, 26405), (193, 26348), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: Astralis_66 Start: 42660, Stop: 43877, Start Num: 63

Candidate Starts for Astralis_66:

(Start: 63 @42660 has 31 MA's), (73, 42675), (121, 42804), (139, 42894), (140, 42897), (151, 42933), (160, 42966), (195, 43080), (203, 43107), (209, 43146), (210, 43161), (216, 43191), (220, 43221), (226, 43251), (237, 43299), (281, 43488), (323, 43644), (326, 43653), (330, 43662), (337, 43686),

(346, 43740), (352, 43779), (372, 43869),

Gene: Aubergine_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for Aubergine_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (Start: 116 @26642 has 1 MA's), (177, 26405), (193, 26348), (197, 26333), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: Avian_64 Start: 42809, Stop: 44026, Start Num: 63

Candidate Starts for Avian_64:

(Start: 63 @42809 has 31 MA's), (73, 42824), (121, 42953), (139, 43043), (140, 43046), (151, 43082), (160, 43115), (195, 43229), (203, 43256), (209, 43295), (210, 43310), (216, 43340), (220, 43370), (226, 43400), (237, 43448), (281, 43637), (323, 43793), (326, 43802), (330, 43811), (337, 43835), (346, 43889), (352, 43928), (372, 44018),

Gene: AxiPup_38 Start: 27052, Stop: 25877, Start Num: 55

Candidate Starts for AxiPup_38:

(21, 27172), (27, 27121), (Start: 52 @27061 has 13 MA's), (Start: 55 @27052 has 127 MA's), (113, 26929), (Start: 116 @26914 has 1 MA's), (132, 26827), (177, 26677), (193, 26620), (248, 26326), (253, 26296), (272, 26266), (274, 26263), (305, 26158), (309, 26140), (312, 26128), (321, 26095), (336, 26044), (341, 26011),

Gene: Axym_40 Start: 29775, Stop: 28738, Start Num: 93

Candidate Starts for Axym_40:

(Start: 93 @29775 has 1 MA's), (147, 29598), (171, 29511), (185, 29454), (202, 29385), (209, 29352), (220, 29274), (237, 29223), (305, 29028), (309, 29010), (313, 28992), (335, 28908), (339, 28890), (351, 28815),

Gene: Azira_39 Start: 29680, Stop: 28649, Start Num: 96

Candidate Starts for Azira_39:

(Start: 96 @29680 has 17 MA's), (113, 29641), (124, 29584), (134, 29527), (147, 29497), (166, 29431), (171, 29410), (197, 29308), (204, 29278), (209, 29251), (216, 29203), (220, 29173), (280, 29008), (309, 28912), (313, 28894), (317, 28879),

Gene: Baines_37 Start: 26770, Stop: 25595, Start Num: 55

Candidate Starts for Baines_37:

(21, 26890), (27, 26839), (Start: 52 @26779 has 13 MA's), (Start: 55 @26770 has 127 MA's), (113, 26647), (119, 26614), (177, 26395), (193, 26338), (248, 26044), (253, 26014), (272, 25984), (274, 25981), (305, 25876), (309, 25858), (312, 25846), (321, 25813), (336, 25762), (341, 25729),

Gene: Balsa_37 Start: 27212, Stop: 26025, Start Num: 52

Candidate Starts for Balsa_37:

(26, 27275), (Start: 52 @27212 has 13 MA's), (Start: 55 @27203 has 127 MA's), (113, 27077), (114, 27074), (172, 26843), (193, 26768), (197, 26753), (248, 26474), (253, 26444), (272, 26414), (274, 26411), (309, 26288), (336, 26192), (341, 26159),

Gene: Bandik_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Bandik_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Barnyard_72 Start: 49524, Stop: 50783, Start Num: 60

Candidate Starts for Barnyard_72:

(42, 49479), (43, 49482), (45, 49488), (Start: 60 @49524 has 46 MA's), (Start: 74 @49542 has 1 MA's), (108, 49614), (121, 49668), (158, 49833), (160, 49845), (171, 49899), (173, 49905), (198, 50010), (202, 50028), (209, 50073), (226, 50181), (252, 50316), (258, 50325), (268, 50358), (271, 50364), (275, 50370), (297, 50442), (326, 50559), (368, 50751), (372, 50775),

Gene: BaronJohn_36 Start: 25562, Stop: 24384, Start Num: 61

Candidate Starts for BaronJohn_36:

(29, 25634), (37, 25619), (Start: 61 @25562 has 32 MA's), (113, 25448), (193, 25130), (197, 25115), (206, 25064), (239, 24872), (248, 24836), (272, 24776), (274, 24773), (299, 24698), (310, 24647), (339, 24542), (347, 24485),

Gene: Bavilard_42 Start: 31061, Stop: 30012, Start Num: 99

Candidate Starts for Bavilard_42:

(Start: 99 @31061 has 1 MA's), (129, 30944), (140, 30893), (147, 30869), (150, 30860), (160, 30827), (171, 30782), (197, 30680), (211, 30599), (228, 30521), (240, 30473), (278, 30380), (293, 30344), (303, 30311), (304, 30305), (305, 30296), (308, 30281), (313, 30260), (314, 30257), (317, 30245), (345, 30116), (347, 30104), (348, 30098), (351, 30083),

Gene: BeautPeep30_38 Start: 27084, Stop: 25909, Start Num: 55

Candidate Starts for BeautPeep30_38:

(21, 27204), (27, 27153), (Start: 52 @27093 has 13 MA's), (Start: 55 @27084 has 127 MA's), (113, 26961), (132, 26859), (177, 26709), (193, 26652), (248, 26358), (253, 26328), (272, 26298), (274, 26295), (305, 26190), (309, 26172), (312, 26160), (321, 26127), (336, 26076), (341, 26043),

Gene: Beckerton_66 Start: 50602, Stop: 51891, Start Num: 50

Candidate Starts for Beckerton_66:

(34, 50563), (Start: 44 @50587 has 3 MA's), (Start: 50 @50602 has 8 MA's), (105, 50716), (111, 50734), (120, 50776), (159, 50950), (160, 50956), (171, 51007), (198, 51121), (202, 51139), (203, 51142), (205, 51157), (209, 51178), (231, 51310), (233, 51316), (274, 51454), (290, 51499), (297, 51517), (309, 51571), (325, 51631), (337, 51667), (353, 51763),

Gene: BeeBee8_38 Start: 27373, Stop: 26195, Start Num: 55

Candidate Starts for BeeBee8_38:

(26, 27445), (Start: 52 @27382 has 13 MA's), (Start: 55 @27373 has 127 MA's), (113, 27247), (114, 27244), (172, 27013), (193, 26938), (197, 26923), (248, 26644), (253, 26614), (272, 26584), (274, 26581), (309, 26458), (336, 26362), (341, 26329),

Gene: Benjalauren_38 Start: 26783, Stop: 25608, Start Num: 55

Candidate Starts for Benjalauren_38:

(21, 26903), (27, 26852), (Start: 52 @26792 has 13 MA's), (Start: 55 @26783 has 127 MA's), (113, 26660), (Start: 116 @26645 has 1 MA's), (132, 26558), (177, 26408), (193, 26351), (197, 26336), (248, 26057), (253, 26027), (272, 25997), (274, 25994), (305, 25889), (309, 25871), (312, 25859), (321, 25826), (336, 25775), (341, 25742),

Gene: BiPauneto_69 Start: 51654, Stop: 50455, Start Num: 65

Candidate Starts for BiPauneto_69:

(Start: 65 @51654 has 47 MA's), (136, 51435), (143, 51411), (151, 51375), (152, 51372), (153, 51369), (160, 51342), (164, 51324), (178, 51267), (220, 51069), (223, 51057), (237, 50991), (242, 50964), (253, 50904), (281, 50811), (286, 50796), (296, 50766), (297, 50763), (301, 50751), (309, 50709), (326, 50646), (330, 50637), (349, 50535), (350, 50529), (357, 50505),

Gene: BigChungus_42 Start: 31250, Stop: 30192, Start Num: 96

Candidate Starts for BigChungus_42:

(86, 31274), (Start: 96 @31250 has 17 MA's), (129, 31124), (134, 31097), (140, 31073), (150, 31040), (160, 31007), (171, 30962), (197, 30860), (211, 30779), (228, 30701), (240, 30653), (244, 30641), (278, 30560), (293, 30524), (303, 30491), (304, 30485), (305, 30476), (308, 30461), (313, 30440), (317, 30425), (345, 30296), (347, 30284), (348, 30278), (351, 30263),

Gene: BigMama_55 Start: 43123, Stop: 44301, Start Num: 60

Candidate Starts for BigMama_55:

(5, 42841), (7, 42871), (15, 42934), (Start: 60 @43123 has 46 MA's), (Start: 82 @43171 has 3 MA's), (104, 43210), (108, 43222), (130, 43321), (146, 43384), (160, 43438), (171, 43486), (195, 43552), (217, 43666), (220, 43693), (226, 43723), (236, 43768), (306, 44002), (323, 44068), (326, 44077), (330, 44086), (356, 44212), (372, 44293),

Gene: BigRedClifford_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for BigRedClifford_38:

(27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: BillDoor_41 Start: 29137, Stop: 28103, Start Num: 103

Candidate Starts for BillDoor_41:

(46, 29266), (Start: 57 @29236 has 1 MA's), (81, 29182), (86, 29173), (Start: 103 @29137 has 22 MA's), (122, 29062), (155, 28942), (171, 28879), (174, 28870), (197, 28777), (220, 28642), (291, 28453), (305, 28396), (309, 28378), (313, 28360), (335, 28276),

Gene: BirthdayBoy_67 Start: 44385, Stop: 45602, Start Num: 63

Candidate Starts for BirthdayBoy_67:

(Start: 63 @44385 has 31 MA's), (73, 44400), (121, 44529), (139, 44619), (140, 44622), (151, 44658), (160, 44691), (195, 44805), (203, 44832), (209, 44871), (210, 44886), (216, 44916), (220, 44946), (226, 44976), (237, 45024), (309, 45315), (323, 45369), (326, 45378), (330, 45387), (337, 45411), (352, 45504), (372, 45594),

Gene: Biskit_43 Start: 29824, Stop: 28796, Start Num: 103

Candidate Starts for Biskit_43:

(46, 29953), (Start: 57 @29923 has 1 MA's), (Start: 80 @29869 has 1 MA's), (85, 29860), (Start: 103 @29824 has 22 MA's), (155, 29629), (171, 29566), (202, 29440), (206, 29416), (220, 29329), (237, 29278), (288, 29149), (305, 29083), (309, 29065), (313, 29047), (335, 28963), (351, 28870),

Gene: Blage_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for Blage_38:

(27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: Blondies_43 Start: 30140, Stop: 29112, Start Num: 103

Candidate Starts for Blondies_43:

(Start: 103 @30140 has 22 MA's), (155, 29945), (171, 29882), (202, 29756), (211, 29699), (220, 29645), (237, 29594), (288, 29465), (305, 29399), (309, 29381), (313, 29363), (339, 29261), (351, 29186),

Gene: BonesMcCoy_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for BonesMcCoy_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: Bonino_37 Start: 26756, Stop: 25581, Start Num: 55

Candidate Starts for Bonino_37:

(21, 26876), (27, 26825), (Start: 52 @26765 has 13 MA's), (Start: 55 @26756 has 127 MA's), (113, 26633), (Start: 116 @26618 has 1 MA's), (177, 26381), (193, 26324), (248, 26030), (253, 26000), (272, 25970), (274, 25967), (305, 25862), (309, 25844), (312, 25832), (321, 25799), (336, 25748), (341, 25715),

Gene: Bonum_70 Start: 52948, Stop: 51740, Start Num: 65

Candidate Starts for Bonum_70:

(Start: 65 @52948 has 47 MA's), (136, 52726), (143, 52702), (146, 52687), (152, 52663), (153, 52660), (160, 52633), (178, 52558), (206, 52441), (223, 52345), (237, 52279), (256, 52168), (274, 52120), (281, 52099), (295, 52057), (301, 52039), (309, 51997), (323, 51943), (326, 51934), (330, 51925), (350, 51817),

Gene: BouleyBill_35 Start: 26662, Stop: 25499, Start Num: 52

Candidate Starts for BouleyBill_35:

(27, 26722), (Start: 52 @26662 has 13 MA's), (Start: 100 @26572 has 2 MA's), (113, 26536), (114, 26533), (172, 26302), (193, 26227), (197, 26212), (203, 26185), (236, 26005), (294, 25825), (299, 25810), (341, 25633), (347, 25597), (355, 25558),

Gene: Braxoaddie_67 Start: 50055, Stop: 48892, Start Num: 60

Candidate Starts for Braxoaddie_67:

(18, 50193), (41, 50085), (Start: 60 @50055 has 46 MA's), (131, 49857), (160, 49734), (162, 49722), (203, 49596), (206, 49569), (237, 49407), (270, 49263), (289, 49224), (297, 49200), (326, 49083), (329, 49077), (353, 48951),

Gene: Buggaboo_68 Start: 53499, Stop: 52291, Start Num: 65

Candidate Starts for Buggaboo_68:

(Start: 65 @53499 has 47 MA's), (136, 53277), (143, 53253), (152, 53214), (153, 53211), (160, 53184), (164, 53166), (178, 53109), (223, 52896), (237, 52830), (256, 52719), (274, 52671), (301, 52590), (309, 52548), (323, 52494), (326, 52485), (330, 52476), (350, 52368),

Gene: Burnsey_41 Start: 29782, Stop: 28751, Start Num: 103

Candidate Starts for Burnsey_41:

(Start: 99 @29788 has 1 MA's), (Start: 103 @29782 has 22 MA's), (147, 29611), (171, 29524), (185, 29467), (202, 29398), (209, 29365), (220, 29287), (237, 29236), (305, 29041), (309, 29023), (313, 29005), (335, 28921), (339, 28903),

Gene: Bustleton_36 Start: 26665, Stop: 25502, Start Num: 52

Candidate Starts for Bustleton_36:

(27, 26725), (Start: 52 @26665 has 13 MA's), (Start: 100 @26575 has 2 MA's), (113, 26539), (114, 26536), (172, 26305), (193, 26230), (197, 26215), (203, 26188), (236, 26008), (246, 25963), (294, 25828), (299, 25813), (341, 25636), (347, 25600), (355, 25561),

Gene: Butterscotch_56 Start: 43107, Stop: 44285, Start Num: 60

Candidate Starts for Butterscotch_56:

(5, 42825), (7, 42855), (15, 42918), (Start: 60 @43107 has 46 MA's), (Start: 82 @43155 has 3 MA's), (104, 43194), (108, 43206), (130, 43305), (146, 43368), (160, 43422), (171, 43470), (195, 43536),

(217, 43650), (220, 43677), (226, 43707), (236, 43752), (306, 43986), (323, 44052), (326, 44061), (330, 44070), (356, 44196), (372, 44277),

Gene: Button_45 Start: 30428, Stop: 29406, Start Num: 98

Candidate Starts for Button_45:

(Start: 98 @30428 has 3 MA's), (134, 30281), (147, 30251), (171, 30164), (185, 30107), (197, 30062), (202, 30038), (204, 30032), (211, 29981), (220, 29927), (228, 29903), (237, 29876), (303, 29699), (305, 29684), (316, 29636), (339, 29546),

Gene: Buttrmlkdreams_43 Start: 30271, Stop: 29240, Start Num: 103

Candidate Starts for Buttrmlkdreams_43:

(46, 30400), (Start: 57 @30370 has 1 MA's), (Start: 80 @30316 has 1 MA's), (85, 30307), (Start: 103 @30271 has 22 MA's), (134, 30130), (171, 30013), (185, 29956), (202, 29887), (209, 29854), (220, 29776), (237, 29725), (305, 29530), (309, 29512), (313, 29494), (339, 29392),

Gene: Byron23_38 Start: 27081, Stop: 25906, Start Num: 55

Candidate Starts for Byron23_38:

(21, 27201), (27, 27150), (Start: 52 @27090 has 13 MA's), (Start: 55 @27081 has 127 MA's), (113, 26958), (Start: 116 @26943 has 1 MA's), (177, 26706), (193, 26649), (197, 26634), (248, 26355), (253, 26325), (272, 26295), (274, 26292), (305, 26187), (309, 26169), (312, 26157), (321, 26124), (336, 26073), (341, 26040),

Gene: C3PO_69 Start: 50533, Stop: 49421, Start Num: 69

Candidate Starts for C3PO_69:

(Start: 69 @50533 has 10 MA's), (120, 50398), (131, 50347), (146, 50284), (160, 50233), (170, 50191), (178, 50158), (199, 50095), (201, 50086), (203, 50077), (209, 50041), (216, 49987), (250, 49804), (320, 49615), (326, 49594), (336, 49564), (348, 49492), (351, 49477), (352, 49468),

Gene: Calix_37 Start: 26763, Stop: 25588, Start Num: 55

Candidate Starts for Calix_37:

(21, 26883), (27, 26832), (Start: 52 @26772 has 13 MA's), (Start: 55 @26763 has 127 MA's), (113, 26640), (119, 26607), (177, 26388), (193, 26331), (248, 26037), (253, 26007), (272, 25977), (274, 25974), (305, 25869), (309, 25851), (312, 25839), (321, 25806), (336, 25755), (341, 25722),

Gene: Candle_67 Start: 51720, Stop: 52889, Start Num: 66

Candidate Starts for Candle_67:

(Start: 66 @51720 has 10 MA's), (73, 51735), (91, 51777), (108, 51810), (157, 52011), (160, 52026), (197, 52158), (209, 52221), (210, 52236), (226, 52326), (232, 52353), (293, 52554), (295, 52560), (297, 52566), (324, 52677), (326, 52683), (353, 52815), (367, 52875),

Gene: CanesSauce_40 Start: 29639, Stop: 28605, Start Num: 103

Candidate Starts for CanesSauce_40:

(Start: 103 @29639 has 22 MA's), (122, 29564), (155, 29444), (171, 29381), (197, 29279), (220, 29144), (288, 28964), (291, 28955), (305, 28898), (309, 28880), (313, 28862), (335, 28778),

Gene: CaptainRex_35 Start: 24974, Stop: 23796, Start Num: 61

Candidate Starts for CaptainRex_35:

(29, 25046), (37, 25031), (Start: 61 @24974 has 32 MA's), (113, 24860), (193, 24542), (197, 24527), (206, 24476), (239, 24284), (248, 24248), (272, 24188), (274, 24185), (299, 24110), (310, 24059), (339, 23954), (347, 23897),

Gene: CarisSwetlik_41 Start: 27919, Stop: 26804, Start Num: 87

Candidate Starts for CarisSwetlik_41:

(26, 28054), (Start: 55 @27982 has 127 MA's), (87, 27919), (113, 27856), (168, 27640), (193, 27547), (197, 27532), (239, 27289), (248, 27253), (253, 27223), (272, 27193), (309, 27067), (321, 27022), (341, 26938), (355, 26863),

Gene: Carostasia_35 Start: 26513, Stop: 25335, Start Num: 61

Candidate Starts for Carostasia_35:

(Start: 61 @26513 has 32 MA's), (108, 26414), (113, 26399), (Start: 116 @26384 has 1 MA's), (173, 26162), (188, 26105), (190, 26093), (193, 26081), (197, 26066), (206, 26015), (248, 25787), (253, 25757), (272, 25727), (274, 25724), (294, 25664), (299, 25649), (310, 25598), (321, 25556), (336, 25505), (341, 25472), (347, 25436),

Gene: Carsonalex_44 Start: 29819, Stop: 28788, Start Num: 103

Candidate Starts for Carsonalex_44:

(46, 29948), (Start: 57 @29918 has 1 MA's), (Start: 80 @29864 has 1 MA's), (85, 29855), (Start: 103 @29819 has 22 MA's), (134, 29678), (171, 29561), (185, 29504), (202, 29435), (209, 29402), (220, 29324), (237, 29273), (305, 29078), (309, 29060), (313, 29042), (335, 28958), (339, 28940),

Gene: Casey_34 Start: 25918, Stop: 24758, Start Num: 55

Candidate Starts for Casey_34:

(27, 25987), (42, 25954), (Start: 55 @25918 has 127 MA's), (94, 25843), (113, 25798), (135, 25684), (163, 25597), (193, 25489), (206, 25423), (272, 25150), (309, 25024), (327, 24961), (336, 24928), (341, 24895), (347, 24859),

Gene: Cborch11_69 Start: 50121, Stop: 51410, Start Num: 50

Candidate Starts for Cborch11_69:

(34, 50082), (Start: 44 @50106 has 3 MA's), (Start: 50 @50121 has 8 MA's), (105, 50235), (108, 50244), (111, 50253), (120, 50295), (159, 50469), (160, 50475), (171, 50526), (198, 50640), (202, 50658), (203, 50661), (205, 50676), (209, 50697), (231, 50829), (233, 50835), (290, 51018), (297, 51036), (305, 51072), (309, 51090), (325, 51150), (337, 51186), (353, 51282),

Gene: Chako_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Chako_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Chamuel_37 Start: 26756, Stop: 25581, Start Num: 55

Candidate Starts for Chamuel_37:

(21, 26876), (27, 26825), (Start: 52 @26765 has 13 MA's), (Start: 55 @26756 has 127 MA's), (113, 26633), (119, 26600), (177, 26381), (193, 26324), (248, 26030), (253, 26000), (272, 25970), (274, 25967), (305, 25862), (309, 25844), (312, 25832), (321, 25799), (336, 25748), (341, 25715),

Gene: Cheeto1_38 Start: 27209, Stop: 26040, Start Num: 55

Candidate Starts for Cheeto1_38:

(22, 27317), (26, 27281), (27, 27278), (Start: 55 @27209 has 127 MA's), (113, 27098), (172, 26864), (188, 26813), (197, 26774), (248, 26495), (282, 26408), (309, 26309), (321, 26264), (341, 26180), (345, 26156), (347, 26144), (355, 26105),

Gene: Chepli_38 Start: 26309, Stop: 25146, Start Num: 61

Candidate Starts for Chepli_38:

(Start: 61 @26309 has 32 MA's), (73, 26297), (113, 26198), (114, 26195), (155, 26033), (193, 25889), (197, 25874), (206, 25823), (221, 25733), (248, 25595), (253, 25565), (272, 25535), (294, 25472),

(299, 25457), (347, 25244),

Gene: CherryonLim_44 Start: 32388, Stop: 31330, Start Num: 96

Candidate Starts for CherryonLim_44:

(86, 32412), (Start: 96 @32388 has 17 MA's), (129, 32262), (134, 32235), (140, 32211), (150, 32178), (160, 32145), (171, 32100), (197, 31998), (211, 31917), (228, 31839), (236, 31815), (240, 31791), (244, 31779), (278, 31698), (303, 31629), (304, 31623), (305, 31614), (313, 31578), (317, 31563), (345, 31434), (347, 31422), (348, 31416), (351, 31401),

Gene: ChewyVIII_80 Start: 59181, Stop: 57982, Start Num: 48

Candidate Starts for ChewyVIII_80:

(12, 59355), (Start: 48 @59181 has 1 MA's), (59, 59148), (Start: 102 @59064 has 1 MA's), (153, 58863), (159, 58842), (160, 58836), (162, 58824), (178, 58761), (200, 58707), (203, 58695), (208, 58662), (216, 58614), (252, 58422), (286, 58314), (288, 58308), (309, 58227), (342, 58095), (343, 58089), (344, 58086), (363, 57990),

Gene: ChickenKing_37 Start: 27122, Stop: 25956, Start Num: 55

Candidate Starts for ChickenKing_37:

(22, 27230), (26, 27194), (27, 27191), (Start: 55 @27122 has 127 MA's), (113, 27011), (172, 26777), (188, 26726), (197, 26687), (248, 26408), (282, 26321), (309, 26222), (321, 26177), (341, 26093), (345, 26069), (347, 26057), (355, 26018),

Gene: ChickenTender_44 Start: 29703, Stop: 28672, Start Num: 103

Candidate Starts for ChickenTender_44:

(Start: 103 @29703 has 22 MA's), (108, 29691), (147, 29532), (171, 29445), (185, 29388), (202, 29319), (209, 29286), (220, 29208), (237, 29157), (291, 29019), (305, 28962), (309, 28944), (313, 28926), (335, 28842), (339, 28824),

Gene: ChikPic_37 Start: 26815, Stop: 25652, Start Num: 61

Candidate Starts for ChikPic_37:

(40, 26851), (Start: 44 @26842 has 3 MA's), (Start: 61 @26815 has 32 MA's), (113, 26704), (114, 26701), (122, 26656), (172, 26470), (182, 26437), (188, 26419), (193, 26395), (197, 26380), (206, 26329), (221, 26239), (248, 26101), (253, 26071), (272, 26041), (282, 26014), (310, 25912), (336, 25819), (341, 25786), (345, 25762), (347, 25750),

Gene: Chill_59 Start: 43170, Stop: 44348, Start Num: 60

Candidate Starts for Chill_59:

(5, 42888), (7, 42918), (15, 42981), (Start: 60 @43170 has 46 MA's), (Start: 82 @43218 has 3 MA's), (104, 43257), (108, 43269), (130, 43368), (146, 43431), (160, 43485), (171, 43533), (195, 43599), (217, 43713), (220, 43740), (226, 43770), (236, 43815), (306, 44049), (323, 44115), (326, 44124), (330, 44133), (356, 44259), (372, 44340),

Gene: Chivey_43 Start: 28072, Stop: 29199, Start Num: 65

Candidate Starts for Chivey_43:

(1, 27679), (3, 27745), (4, 27760), (Start: 65 @28072 has 47 MA's), (Start: 74 @28093 has 1 MA's), (115, 28189), (140, 28303), (160, 28366), (183, 28462), (209, 28567), (236, 28717), (293, 28885), (309, 28951), (324, 29008), (344, 29092), (353, 29149),

Gene: ChocoMunchkin_40 Start: 29639, Stop: 28605, Start Num: 103

Candidate Starts for ChocoMunchkin_40:

(Start: 103 @29639 has 22 MA's), (122, 29564), (155, 29444), (171, 29381), (197, 29279), (220, 29144), (288, 28964), (291, 28955), (305, 28898), (309, 28880), (313, 28862), (335, 28778),

Gene: Christoph_37 Start: 26778, Stop: 25603, Start Num: 55

Candidate Starts for Christoph_37:

(21, 26898), (27, 26847), (Start: 52 @26787 has 13 MA's), (Start: 55 @26778 has 127 MA's), (113, 26655), (Start: 116 @26640 has 1 MA's), (177, 26403), (193, 26346), (197, 26331), (248, 26052), (253, 26022), (272, 25992), (274, 25989), (305, 25884), (309, 25866), (312, 25854), (321, 25821), (336, 25770), (341, 25737),

Gene: Clancy_37 Start: 26812, Stop: 25637, Start Num: 55

Candidate Starts for Clancy_37:

(21, 26932), (27, 26881), (Start: 52 @26821 has 13 MA's), (Start: 55 @26812 has 127 MA's), (113, 26689), (Start: 116 @26674 has 1 MA's), (132, 26587), (177, 26437), (193, 26380), (197, 26365), (248, 26086), (253, 26056), (272, 26026), (274, 26023), (305, 25918), (309, 25900), (312, 25888), (321, 25855), (336, 25804), (341, 25771),

Gene: Cleo_37 Start: 29247, Stop: 28195, Start Num: 88

Candidate Starts for Cleo_37:

(Start: 88 @29247 has 3 MA's), (Start: 101 @29217 has 3 MA's), (113, 29187), (134, 29073), (155, 29019), (166, 28977), (171, 28956), (197, 28854), (204, 28824), (216, 28749), (220, 28719), (228, 28695), (279, 28557), (309, 28458), (313, 28440), (315, 28434), (316, 28428), (331, 28371), (336, 28350),

Gene: Clock_35 Start: 27801, Stop: 26626, Start Num: 61

Candidate Starts for Clock_35:

(19, 27945), (29, 27873), (33, 27867), (Start: 61 @27801 has 32 MA's), (113, 27687), (160, 27501), (193, 27369), (197, 27354), (206, 27303), (221, 27213), (272, 27015), (294, 26952), (336, 26793), (341, 26760), (345, 26736), (355, 26685),

Gene: CoffeeBean_67 Start: 50013, Stop: 48850, Start Num: 60

Candidate Starts for CoffeeBean_67:

(18, 50151), (41, 50043), (Start: 60 @50013 has 46 MA's), (131, 49815), (160, 49692), (162, 49680), (203, 49554), (206, 49527), (237, 49365), (270, 49221), (289, 49182), (297, 49158), (326, 49041), (329, 49035), (353, 48909),

Gene: ColaCorta_37 Start: 26805, Stop: 25642, Start Num: 61

Candidate Starts for ColaCorta_37:

(40, 26841), (Start: 44 @26832 has 3 MA's), (Start: 61 @26805 has 32 MA's), (113, 26694), (114, 26691), (122, 26646), (172, 26460), (182, 26427), (188, 26409), (193, 26385), (197, 26370), (206, 26319), (221, 26229), (248, 26091), (253, 26061), (272, 26031), (282, 26004), (310, 25902), (336, 25809), (341, 25776), (345, 25752), (347, 25740),

Gene: Commandaria_67 Start: 53320, Stop: 52109, Start Num: 60

Candidate Starts for Commandaria_67:

(Start: 60 @53320 has 46 MA's), (127, 53140), (136, 53092), (160, 52999), (194, 52876), (195, 52867), (220, 52726), (223, 52714), (237, 52648), (296, 52420), (301, 52405), (309, 52363), (323, 52309), (325, 52303), (326, 52300), (330, 52291), (333, 52276), (350, 52183), (357, 52159),

Gene: Convict_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for Convict_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: CoolCookie_43 Start: 28850, Stop: 30004, Start Num: 65

Candidate Starts for CoolCookie_43:

(1, 28451), (Start: 65 @28850 has 47 MA's), (Start: 74 @28871 has 1 MA's), (140, 29081), (160, 29144), (183, 29240), (209, 29345), (236, 29495), (253, 29585), (266, 29621), (281, 29651), (309, 29756), (324, 29813), (344, 29897), (353, 29954),

Gene: Cozz_39 Start: 29379, Stop: 28348, Start Num: 100

Candidate Starts for Cozz_39:

(95, 29385), (Start: 100 @29379 has 2 MA's), (147, 29208), (171, 29121), (185, 29064), (202, 28995), (209, 28962), (220, 28884), (237, 28833), (305, 28638), (309, 28620), (313, 28602), (335, 28518), (339, 28500),

Gene: Crestdrop_43 Start: 28106, Stop: 29230, Start Num: 65

Candidate Starts for Crestdrop_43:

(1, 27713), (3, 27779), (4, 27794), (Start: 65 @28106 has 47 MA's), (Start: 74 @28127 has 1 MA's), (140, 28337), (160, 28400), (183, 28496), (209, 28601), (236, 28751), (281, 28880), (309, 28982), (344, 29123), (353, 29180),

Gene: Cruella_69 Start: 50533, Stop: 49421, Start Num: 69

Candidate Starts for Cruella_69:

(Start: 69 @50533 has 10 MA's), (120, 50398), (131, 50347), (146, 50284), (160, 50233), (170, 50191), (178, 50158), (199, 50095), (201, 50086), (203, 50077), (209, 50041), (216, 49987), (250, 49804), (320, 49615), (326, 49594), (336, 49564), (348, 49492), (351, 49477), (352, 49468),

Gene: Cuke_76 Start: 45241, Stop: 46281, Start Num: 60

Candidate Starts for Cuke_76:

(Start: 60 @45241 has 46 MA's), (Start: 66 @45250 has 10 MA's), (73, 45265), (Start: 80 @45286 has 1 MA's), (115, 45367), (Start: 138 @45475 has 1 MA's), (150, 45526), (161, 45565), (163, 45577), (174, 45619), (202, 45700), (210, 45757), (219, 45811), (226, 45847), (233, 45877), (300, 45961), (309, 46003), (326, 46066), (336, 46096), (352, 46195), (364, 46249),

Gene: Cybele_43 Start: 28820, Stop: 29974, Start Num: 65

Candidate Starts for Cybele_43:

(1, 28421), (Start: 65 @28820 has 47 MA's), (Start: 74 @28841 has 1 MA's), (140, 29051), (160, 29114), (183, 29210), (209, 29315), (236, 29465), (253, 29555), (266, 29591), (281, 29621), (309, 29726), (324, 29783), (344, 29867), (353, 29924),

Gene: Dalilpop_70 Start: 54174, Stop: 52993, Start Num: 65

Candidate Starts for Dalilpop_70:

(Start: 65 @54174 has 47 MA's), (Start: 138 @53949 has 1 MA's), (144, 53925), (152, 53889), (160, 53859), (171, 53811), (195, 53748), (226, 53577), (237, 53529), (250, 53454), (253, 53442), (274, 53370), (297, 53301), (326, 53184), (330, 53175), (333, 53160), (357, 53043),

Gene: Damien_67 Start: 50083, Stop: 51372, Start Num: 50

Candidate Starts for Damien_67:

(34, 50044), (Start: 44 @50068 has 3 MA's), (Start: 50 @50083 has 8 MA's), (105, 50197), (111, 50215), (120, 50257), (159, 50431), (160, 50437), (171, 50488), (198, 50602), (202, 50620), (203, 50623), (205, 50638), (209, 50659), (231, 50791), (233, 50797), (274, 50935), (290, 50980), (297, 50998), (309, 51052), (325, 51112), (337, 51148), (353, 51244),

Gene: DannyDe_43 Start: 28078, Stop: 29205, Start Num: 65

Candidate Starts for DannyDe_43:

(1, 27685), (3, 27751), (4, 27766), (Start: 65 @28078 has 47 MA's), (Start: 74 @28099 has 1 MA's), (115, 28195), (140, 28309), (160, 28372), (183, 28468), (209, 28573), (236, 28723), (293, 28891),

(309, 28957), (324, 29014), (344, 29098), (353, 29155),

Gene: Darwin_70 Start: 49774, Stop: 48662, Start Num: 69

Candidate Starts for Darwin_70:

(Start: 69 @49774 has 10 MA's), (131, 49588), (160, 49474), (170, 49432), (178, 49399), (199, 49336), (201, 49327), (203, 49318), (209, 49282), (216, 49228), (250, 49045), (320, 48856), (326, 48835), (336, 48805), (348, 48733), (351, 48718), (352, 48709),

Gene: Dauntless_42 Start: 28400, Stop: 29557, Start Num: 65

Candidate Starts for Dauntless_42:

(1, 28007), (4, 28088), (Start: 65 @28400 has 47 MA's), (Start: 74 @28421 has 1 MA's), (140, 28631), (160, 28694), (183, 28790), (209, 28895), (236, 29045), (291, 29237), (293, 29243), (309, 29309), (344, 29450), (353, 29507),

Gene: Dave_38 Start: 27070, Stop: 25895, Start Num: 55

Candidate Starts for Dave_38:

(21, 27190), (27, 27139), (Start: 52 @27079 has 13 MA's), (Start: 55 @27070 has 127 MA's), (113, 26947), (Start: 116 @26932 has 1 MA's), (177, 26695), (193, 26638), (197, 26623), (248, 26344), (253, 26314), (272, 26284), (274, 26281), (305, 26176), (309, 26158), (312, 26146), (321, 26113), (336, 26062), (341, 26029),

Gene: DaviePasture_65 Start: 43993, Stop: 45210, Start Num: 63

Candidate Starts for DaviePasture_65:

(Start: 63 @43993 has 31 MA's), (73, 44008), (121, 44137), (139, 44227), (140, 44230), (151, 44266), (160, 44299), (195, 44413), (203, 44440), (209, 44479), (210, 44494), (216, 44524), (220, 44554), (226, 44584), (237, 44632), (309, 44923), (323, 44977), (326, 44986), (330, 44995), (337, 45019), (352, 45112), (372, 45202),

Gene: Delphidian_38 Start: 27081, Stop: 25906, Start Num: 55

Candidate Starts for Delphidian_38:

(21, 27201), (27, 27150), (Start: 52 @27090 has 13 MA's), (Start: 55 @27081 has 127 MA's), (113, 26958), (Start: 116 @26943 has 1 MA's), (177, 26706), (193, 26649), (248, 26355), (253, 26325), (272, 26295), (274, 26292), (305, 26187), (309, 26169), (312, 26157), (321, 26124), (336, 26073), (341, 26040),

Gene: Delton_58 Start: 43505, Stop: 44683, Start Num: 60

Candidate Starts for Delton_58:

(5, 43223), (7, 43253), (15, 43316), (Start: 60 @43505 has 46 MA's), (Start: 82 @43553 has 3 MA's), (104, 43592), (108, 43604), (130, 43703), (146, 43766), (160, 43820), (171, 43868), (195, 43934), (217, 44048), (220, 44075), (226, 44105), (236, 44150), (306, 44384), (323, 44450), (326, 44459), (330, 44468), (356, 44594), (372, 44675),

Gene: Den3_38 Start: 27087, Stop: 25912, Start Num: 55

Candidate Starts for Den3_38:

(21, 27207), (27, 27156), (Start: 52 @27096 has 13 MA's), (Start: 55 @27087 has 127 MA's), (113, 26964), (132, 26862), (177, 26712), (193, 26655), (248, 26361), (253, 26331), (272, 26301), (274, 26298), (305, 26193), (309, 26175), (312, 26163), (321, 26130), (336, 26079), (341, 26046),

Gene: DoobyDoo_64 Start: 43023, Stop: 44186, Start Num: 63

Candidate Starts for DoobyDoo_64:

(Start: 63 @43023 has 31 MA's), (73, 43038), (121, 43167), (139, 43257), (140, 43260), (151, 43296), (160, 43329), (195, 43443), (203, 43470), (209, 43509), (210, 43524), (216, 43554), (220, 43584), (226, 43614), (237, 43662), (281, 43797), (309, 43899), (323, 43953), (326, 43962), (330, 43971),

(337, 43995), (352, 44088), (372, 44178),

Gene: Dothraki_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Dothraki_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: DrLupo_75 Start: 50706, Stop: 51980, Start Num: 60

Candidate Starts for DrLupo_75:

(Start: 60 @50706 has 46 MA's), (73, 50730), (121, 50859), (158, 51027), (160, 51039), (171, 51093), (173, 51099), (181, 51132), (186, 51153), (192, 51177), (193, 51183), (202, 51228), (204, 51234), (207, 51267), (208, 51270), (209, 51273), (226, 51381), (252, 51516), (258, 51525), (271, 51564), (275, 51570), (285, 51600), (287, 51606), (297, 51639), (298, 51642), (309, 51693), (315, 51717), (317, 51726), (326, 51756), (353, 51885), (357, 51894), (368, 51948), (372, 51972),

Gene: Dre3_37 Start: 28990, Stop: 27938, Start Num: 88

Candidate Starts for Dre3_37:

(Start: 88 @28990 has 3 MA's), (Start: 96 @28969 has 17 MA's), (Start: 101 @28960 has 3 MA's), (113, 28930), (134, 28816), (155, 28762), (166, 28720), (171, 28699), (197, 28597), (204, 28567), (216, 28492), (220, 28462), (228, 28438), (279, 28300), (309, 28201), (313, 28183), (315, 28177), (316, 28171), (331, 28114), (336, 28093),

Gene: Dryad_70 Start: 48069, Stop: 47071, Start Num: 67

Candidate Starts for Dryad_70:

(Start: 54 @48093 has 2 MA's), (Start: 67 @48069 has 7 MA's), (73, 48057), (107, 47985), (110, 47976), (160, 47778), (161, 47775), (203, 47619), (209, 47583), (220, 47508), (223, 47496), (236, 47433), (238, 47421), (301, 47364), (306, 47334), (316, 47292), (324, 47265), (326, 47259), (330, 47250), (344, 47178), (345, 47172),

Gene: DumpTruck_64 Start: 42784, Stop: 43998, Start Num: 63

Candidate Starts for DumpTruck_64:

(Start: 52 @42760 has 13 MA's), (Start: 63 @42784 has 31 MA's), (73, 42796), (139, 43015), (140, 43018), (153, 43060), (160, 43087), (163, 43102), (203, 43228), (210, 43282), (216, 43312), (220, 43342), (235, 43414), (254, 43513), (264, 43561), (267, 43576), (308, 43708), (323, 43765), (326, 43774), (330, 43783), (337, 43807), (352, 43900), (369, 43969), (372, 43990),

Gene: Duocatuli_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Duocatuli_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Eleri_37 Start: 26806, Stop: 25643, Start Num: 61

Candidate Starts for Eleri_37:

(40, 26842), (Start: 44 @26833 has 3 MA's), (Start: 61 @26806 has 32 MA's), (113, 26695), (114, 26692), (122, 26647), (172, 26461), (182, 26428), (188, 26410), (193, 26386), (197, 26371), (206, 26320), (221, 26230), (248, 26092), (253, 26062), (272, 26032), (282, 26005), (310, 25903), (336, 25810), (341, 25777), (345, 25753), (347, 25741),

Gene: Elinal_46 Start: 31626, Stop: 30580, Start Num: 103

Candidate Starts for Elinal_46:

(89, 31656), (Start: 99 @31632 has 1 MA's), (Start: 103 @31626 has 22 MA's), (140, 31461), (147, 31437), (150, 31428), (160, 31395), (171, 31350), (197, 31248), (211, 31167), (228, 31089), (240, 31041), (278, 30948), (293, 30912), (303, 30879), (304, 30873), (305, 30864), (308, 30849), (313, 30828), (317, 30813), (345, 30684), (347, 30672), (348, 30666), (351, 30651),

Gene: Elliott_41 Start: 29790, Stop: 28759, Start Num: 103

Candidate Starts for Elliott_41:

(Start: 103 @29790 has 22 MA's), (147, 29619), (171, 29532), (185, 29475), (202, 29406), (209, 29373), (220, 29295), (237, 29244), (305, 29049), (309, 29031), (313, 29013), (335, 28929), (339, 28911),

Gene: Emalyn_41 Start: 29228, Stop: 28200, Start Num: 103

Candidate Starts for Emalyn_41:

(Start: 103 @29228 has 22 MA's), (155, 29033), (171, 28970), (197, 28868), (202, 28844), (211, 28787), (220, 28733), (237, 28682), (288, 28553), (291, 28544), (305, 28487), (309, 28469), (313, 28451), (335, 28367),

Gene: Emianna_66 Start: 53297, Stop: 52098, Start Num: 60

Candidate Starts for Emianna_66:

(Start: 60 @53297 has 46 MA's), (152, 53009), (153, 53006), (159, 52985), (160, 52979), (220, 52706), (223, 52694), (226, 52676), (234, 52643), (237, 52628), (253, 52541), (281, 52454), (286, 52439), (296, 52409), (297, 52406), (309, 52352), (324, 52295), (325, 52292), (326, 52289), (330, 52280), (350, 52172), (357, 52148),

Gene: Endor_38 Start: 27441, Stop: 26254, Start Num: 52

Candidate Starts for Endor_38:

(26, 27504), (Start: 52 @27441 has 13 MA's), (Start: 55 @27432 has 127 MA's), (113, 27306), (114, 27303), (172, 27072), (177, 27054), (193, 26997), (197, 26982), (239, 26739), (248, 26703), (272, 26643), (274, 26640), (276, 26634), (309, 26517), (336, 26421), (341, 26388),

Gene: Ennea_73 Start: 54279, Stop: 53080, Start Num: 54

Candidate Starts for Ennea_73:

(Start: 54 @54279 has 2 MA's), (Start: 58 @54270 has 3 MA's), (130, 54072), (151, 53979), (152, 53976), (153, 53973), (160, 53946), (164, 53928), (178, 53871), (223, 53676), (224, 53673), (226, 53658), (237, 53610), (259, 53496), (264, 53484), (281, 53436), (297, 53388), (309, 53334), (326, 53271), (330, 53262), (352, 53142),

Gene: Erk16_56 Start: 43209, Stop: 44387, Start Num: 60

Candidate Starts for Erk16_56:

(5, 42927), (7, 42957), (15, 43020), (Start: 60 @43209 has 46 MA's), (Start: 82 @43257 has 3 MA's), (104, 43296), (108, 43308), (130, 43407), (146, 43470), (160, 43524), (171, 43572), (195, 43638), (217, 43752), (220, 43779), (226, 43809), (236, 43854), (306, 44088), (323, 44154), (326, 44163), (330, 44172), (356, 44298), (372, 44379),

Gene: Erla_37 Start: 26760, Stop: 25585, Start Num: 55

Candidate Starts for Erla_37:

(21, 26880), (27, 26829), (Start: 52 @26769 has 13 MA's), (Start: 55 @26760 has 127 MA's), (113, 26637), (119, 26604), (177, 26385), (193, 26328), (248, 26034), (253, 26004), (272, 25974), (274, 25971), (305, 25866), (309, 25848), (312, 25836), (321, 25803), (336, 25752), (341, 25719),

Gene: Erudite_42 Start: 28400, Stop: 29557, Start Num: 65

Candidate Starts for Erudite_42:

(1, 28007), (4, 28088), (Start: 65 @28400 has 47 MA's), (Start: 74 @28421 has 1 MA's), (140, 28631), (160, 28694), (183, 28790), (209, 28895), (236, 29045), (291, 29237), (293, 29243), (309, 29309), (344, 29450), (353, 29507),

Gene: Erutan_65 Start: 43665, Stop: 44828, Start Num: 63

Candidate Starts for Erutan_65:

(Start: 63 @43665 has 31 MA's), (73, 43680), (121, 43809), (139, 43899), (140, 43902), (151, 43938), (160, 43971), (195, 44085), (203, 44112), (209, 44151), (210, 44166), (216, 44196), (220, 44226), (226, 44256), (237, 44304), (281, 44439), (309, 44541), (323, 44595), (326, 44604), (330, 44613), (337, 44637), (352, 44730), (372, 44820),

Gene: Espinosa_37 Start: 26778, Stop: 25603, Start Num: 55

Candidate Starts for Espinosa_37:

(21, 26898), (27, 26847), (Start: 52 @26787 has 13 MA's), (Start: 55 @26778 has 127 MA's), (113, 26655), (Start: 116 @26640 has 1 MA's), (177, 26403), (193, 26346), (197, 26331), (248, 26052), (253, 26022), (272, 25992), (274, 25989), (305, 25884), (309, 25866), (312, 25854), (321, 25821), (336, 25770), (341, 25737),

Gene: Etna_37 Start: 27214, Stop: 26036, Start Num: 55

Candidate Starts for Etna_37:

(26, 27286), (Start: 52 @27223 has 13 MA's), (Start: 55 @27214 has 127 MA's), (113, 27088), (114, 27085), (172, 26854), (193, 26779), (197, 26764), (248, 26485), (272, 26425), (274, 26422), (309, 26299), (336, 26203), (341, 26170),

Gene: Etta_37 Start: 26764, Stop: 25589, Start Num: 55

Candidate Starts for Etta_37:

(21, 26884), (27, 26833), (Start: 52 @26773 has 13 MA's), (Start: 55 @26764 has 127 MA's), (113, 26641), (119, 26608), (177, 26389), (193, 26332), (248, 26038), (253, 26008), (272, 25978), (274, 25975), (305, 25870), (309, 25852), (312, 25840), (321, 25807), (336, 25756), (341, 25723),

Gene: Exploradora_38 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Exploradora_38:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (119, 26611), (177, 26392), (193, 26335), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: FF47_42 Start: 31849, Stop: 30833, Start Num: 96

Candidate Starts for FF47_42:

(Start: 96 @31849 has 17 MA's), (123, 31756), (124, 31753), (145, 31666), (171, 31579), (185, 31522), (189, 31507), (202, 31453), (240, 31270), (305, 31099), (308, 31084), (313, 31063), (344, 30937), (353, 30886), (358, 30865),

Gene: FarmerDoug_37 Start: 27063, Stop: 25885, Start Num: 55

Candidate Starts for FarmerDoug_37:

(25, 27141), (26, 27135), (Start: 55 @27063 has 127 MA's), (113, 26937), (114, 26934), (172, 26703), (193, 26628), (197, 26613), (203, 26586), (248, 26334), (253, 26304), (272, 26274), (274, 26271), (309, 26148), (336, 26052), (341, 26019),

Gene: Feastonyeet_42 Start: 31250, Stop: 30192, Start Num: 96

Candidate Starts for Feastonyeet_42:

(86, 31274), (Start: 96 @31250 has 17 MA's), (129, 31124), (134, 31097), (140, 31073), (150, 31040), (160, 31007), (171, 30962), (197, 30860), (211, 30779), (228, 30701), (240, 30653), (244, 30641), (278, 30560), (293, 30524), (303, 30491), (304, 30485), (305, 30476), (308, 30461), (313, 30440),

(317, 30425), (345, 30296), (347, 30284), (348, 30278), (351, 30263),

Gene: Figueroism_38 Start: 27072, Stop: 25897, Start Num: 55

Candidate Starts for Figueroism_38:

(21, 27192), (27, 27141), (Start: 52 @27081 has 13 MA's), (Start: 55 @27072 has 127 MA's), (113, 26949), (Start: 116 @26934 has 1 MA's), (132, 26847), (177, 26697), (193, 26640), (197, 26625), (248, 26346), (253, 26316), (272, 26286), (274, 26283), (305, 26178), (309, 26160), (312, 26148), (321, 26115), (336, 26064), (341, 26031),

Gene: Finny_37 Start: 26846, Stop: 25683, Start Num: 61

Candidate Starts for Finny_37:

(40, 26882), (Start: 44 @26873 has 3 MA's), (Start: 61 @26846 has 32 MA's), (113, 26735), (122, 26687), (172, 26501), (182, 26468), (188, 26450), (193, 26426), (197, 26411), (206, 26360), (221, 26270), (248, 26132), (253, 26102), (272, 26072), (274, 26069), (282, 26045), (310, 25943), (336, 25850), (341, 25817), (345, 25793), (347, 25781),

Gene: Flapper_69 Start: 53365, Stop: 52184, Start Num: 65

Candidate Starts for Flapper_69:

(Start: 65 @53365 has 47 MA's), (Start: 138 @53140 has 1 MA's), (144, 53116), (152, 53080), (160, 53050), (171, 53002), (195, 52939), (226, 52768), (237, 52720), (253, 52633), (256, 52609), (274, 52561), (297, 52492), (326, 52375), (330, 52366), (333, 52351), (357, 52234),

Gene: Float294_67 Start: 53958, Stop: 52795, Start Num: 76

Candidate Starts for Float294_67:

(Start: 76 @53958 has 2 MA's), (130, 53787), (151, 53694), (152, 53691), (153, 53688), (160, 53661), (164, 53643), (178, 53586), (223, 53391), (224, 53388), (226, 53373), (237, 53325), (259, 53211), (264, 53199), (281, 53151), (297, 53103), (309, 53049), (326, 52986), (330, 52977), (352, 52857),

Gene: Fowlmouth_77 Start: 47770, Stop: 48810, Start Num: 60

Candidate Starts for Fowlmouth_77:

(46, 47731), (Start: 60 @47770 has 46 MA's), (Start: 66 @47779 has 10 MA's), (73, 47794), (Start: 80 @47815 has 1 MA's), (115, 47896), (Start: 138 @48004 has 1 MA's), (150, 48055), (161, 48094), (171, 48139), (174, 48148), (206, 48262), (210, 48286), (230, 48397), (300, 48490), (309, 48532), (326, 48595), (336, 48625), (352, 48724),

Gene: Foxboro_67 Start: 53822, Stop: 52623, Start Num: 60

Candidate Starts for Foxboro_67:

(Start: 60 @53822 has 46 MA's), (152, 53534), (153, 53531), (159, 53510), (160, 53504), (220, 53231), (223, 53219), (226, 53201), (234, 53168), (237, 53153), (253, 53066), (281, 52979), (286, 52964), (296, 52934), (297, 52931), (309, 52877), (324, 52820), (325, 52817), (326, 52814), (330, 52805), (350, 52697), (357, 52673),

Gene: FreddieHg_43 Start: 28088, Stop: 29215, Start Num: 65

Candidate Starts for FreddieHg_43:

(1, 27695), (3, 27761), (4, 27776), (Start: 65 @28088 has 47 MA's), (Start: 74 @28109 has 1 MA's), (115, 28205), (140, 28319), (160, 28382), (183, 28478), (209, 28583), (236, 28733), (293, 28901), (309, 28967), (324, 29024), (344, 29108), (353, 29165),

Gene: Fribs8_38 Start: 29408, Stop: 28377, Start Num: 96

Candidate Starts for Fribs8_38:

(Start: 96 @29408 has 17 MA's), (113, 29369), (123, 29315), (124, 29312), (134, 29255), (147, 29225), (166, 29159), (171, 29138), (197, 29036), (204, 29006), (206, 28988), (216, 28931), (220, 28901), (280, 28736), (305, 28658), (309, 28640), (313, 28622), (316, 28610), (317, 28607), (336, 28532),

Gene: Fulcrum_65 Start: 43693, Stop: 44910, Start Num: 63

Candidate Starts for Fulcrum_65:

(Start: 63 @43693 has 31 MA's), (73, 43708), (121, 43837), (139, 43927), (140, 43930), (151, 43966), (160, 43999), (195, 44113), (203, 44140), (209, 44179), (210, 44194), (216, 44224), (220, 44254), (226, 44284), (235, 44326), (237, 44332), (309, 44623), (323, 44677), (326, 44686), (330, 44695), (337, 44719), (352, 44812), (372, 44902),

Gene: Fulton_35 Start: 24975, Stop: 23797, Start Num: 61

Candidate Starts for Fulton_35:

(29, 25047), (37, 25032), (Start: 61 @24975 has 32 MA's), (113, 24861), (193, 24543), (197, 24528), (206, 24477), (239, 24285), (248, 24249), (272, 24189), (274, 24186), (299, 24111), (310, 24060), (339, 23955), (347, 23898),

Gene: Fury_75 Start: 52498, Stop: 51308, Start Num: 58

Candidate Starts for Fury_75:

(2, 52828), (9, 52726), (Start: 58 @52498 has 3 MA's), (73, 52471), (114, 52378), (140, 52255), (143, 52243), (153, 52201), (160, 52174), (161, 52171), (237, 51841), (253, 51754), (281, 51661), (297, 51613), (326, 51496), (336, 51466), (345, 51409), (350, 51379), (357, 51355),

Gene: GOATification_65 Start: 43693, Stop: 44910, Start Num: 63

Candidate Starts for GOATification_65:

(Start: 63 @43693 has 31 MA's), (73, 43708), (121, 43837), (139, 43927), (140, 43930), (151, 43966), (160, 43999), (195, 44113), (203, 44140), (209, 44179), (210, 44194), (216, 44224), (220, 44254), (226, 44284), (235, 44326), (237, 44332), (309, 44623), (323, 44677), (326, 44686), (330, 44695), (337, 44719), (352, 44812), (372, 44902),

Gene: GRU1_55 Start: 45213, Stop: 44032, Start Num: 65

Candidate Starts for GRU1_55:

(Start: 65 @45213 has 47 MA's), (Start: 138 @44988 has 1 MA's), (144, 44964), (152, 44928), (160, 44898), (171, 44850), (195, 44787), (226, 44616), (237, 44568), (250, 44493), (253, 44481), (274, 44409), (297, 44340), (326, 44223), (330, 44214), (333, 44199), (357, 44082),

Gene: GTE2_33 Start: 29525, Stop: 28416, Start Num: 69

Candidate Starts for GTE2_33:

(28, 29624), (30, 29618), (Start: 69 @29525 has 10 MA's), (86, 29486), (Start: 103 @29450 has 22 MA's), (122, 29375), (155, 29255), (171, 29192), (197, 29090), (203, 29063), (220, 28955), (237, 28904), (249, 28853), (288, 28775), (291, 28766), (305, 28709), (309, 28691), (313, 28673), (335, 28589),

Gene: GTE5_55 Start: 46020, Stop: 45064, Start Num: 138

Candidate Starts for GTE5_55:

(Start: 138 @46020 has 1 MA's), (140, 46011), (144, 45996), (152, 45960), (160, 45930), (171, 45882), (195, 45819), (237, 45600), (252, 45516), (253, 45513), (274, 45441), (297, 45372), (326, 45255), (330, 45246), (333, 45231), (350, 45138), (357, 45114),

Gene: GTE8_55 Start: 46534, Stop: 45335, Start Num: 60

Candidate Starts for GTE8_55:

(Start: 60 @46534 has 46 MA's), (151, 46249), (153, 46243), (159, 46222), (160, 46216), (223, 45931), (226, 45913), (234, 45880), (237, 45865), (253, 45778), (296, 45646), (297, 45643), (309, 45589), (325, 45529), (326, 45526), (330, 45517), (350, 45409), (357, 45385),

Gene: GaeCeo_38 Start: 27355, Stop: 26189, Start Num: 55

Candidate Starts for GaeCeo_38:

(22, 27463), (26, 27427), (27, 27424), (Start: 52 @27364 has 13 MA's), (Start: 55 @27355 has 127 MA's), (113, 27244), (172, 27010), (188, 26959), (248, 26641), (282, 26554), (309, 26455), (321, 26410), (341, 26326), (345, 26302), (347, 26290), (355, 26251),

Gene: GardenB_37 Start: 27181, Stop: 26003, Start Num: 55

Candidate Starts for GardenB_37:

(26, 27253), (Start: 52 @27190 has 13 MA's), (Start: 55 @27181 has 127 MA's), (113, 27055), (114, 27052), (172, 26821), (193, 26746), (197, 26731), (239, 26488), (248, 26452), (253, 26422), (274, 26389), (309, 26266), (336, 26170), (341, 26137),

Gene: Garey24_37 Start: 26746, Stop: 25571, Start Num: 55

Candidate Starts for Garey24_37:

(21, 26866), (27, 26815), (Start: 52 @26755 has 13 MA's), (Start: 55 @26746 has 127 MA's), (113, 26623), (Start: 116 @26608 has 1 MA's), (177, 26371), (193, 26314), (248, 26020), (253, 25990), (272, 25960), (274, 25957), (305, 25852), (309, 25834), (312, 25822), (321, 25789), (336, 25738), (341, 25705),

Gene: Gargoyle_38 Start: 27087, Stop: 25912, Start Num: 55

Candidate Starts for Gargoyle_38:

(21, 27207), (27, 27156), (Start: 52 @27096 has 13 MA's), (Start: 55 @27087 has 127 MA's), (113, 26964), (132, 26862), (177, 26712), (193, 26655), (248, 26361), (253, 26331), (272, 26301), (274, 26298), (305, 26193), (309, 26175), (312, 26163), (321, 26130), (336, 26079), (341, 26046),

Gene: Gelo_37 Start: 26770, Stop: 25595, Start Num: 55

Candidate Starts for Gelo_37:

(21, 26890), (27, 26839), (Start: 52 @26779 has 13 MA's), (Start: 55 @26770 has 127 MA's), (113, 26647), (119, 26614), (177, 26395), (193, 26338), (248, 26044), (253, 26014), (272, 25984), (274, 25981), (305, 25876), (309, 25858), (312, 25846), (321, 25813), (336, 25762), (341, 25729),

Gene: Genamy16_68 Start: 43067, Stop: 44284, Start Num: 63

Candidate Starts for Genamy16_68:

(Start: 63 @43067 has 31 MA's), (73, 43082), (121, 43211), (139, 43301), (140, 43304), (151, 43340), (160, 43373), (195, 43487), (203, 43514), (209, 43553), (210, 43568), (216, 43598), (220, 43628), (226, 43658), (237, 43706), (281, 43895), (323, 44051), (326, 44060), (330, 44069), (337, 44093), (346, 44147), (352, 44186), (372, 44276),

Gene: Gershwin_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for Gershwin_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (119, 26624), (177, 26405), (193, 26348), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: GiKK_47 Start: 30758, Stop: 29736, Start Num: 98

Candidate Starts for GiKK_47:

(Start: 98 @30758 has 3 MA's), (134, 30611), (147, 30581), (171, 30494), (185, 30437), (190, 30416), (197, 30392), (202, 30368), (204, 30362), (211, 30311), (220, 30257), (228, 30233), (237, 30206), (303, 30029), (305, 30014), (316, 29966), (339, 29876),

Gene: Gibbin_67 Start: 44498, Stop: 45715, Start Num: 63

Candidate Starts for Gibbin_67:

(Start: 63 @44498 has 31 MA's), (73, 44513), (121, 44642), (139, 44732), (140, 44735), (151, 44771), (160, 44804), (195, 44918), (203, 44945), (209, 44984), (210, 44999), (216, 45029), (220, 45059),

(226, 45089), (237, 45137), (309, 45428), (323, 45482), (326, 45491), (330, 45500), (337, 45524), (352, 45617), (372, 45707),

Gene: Gibbous_37 Start: 28990, Stop: 27938, Start Num: 88

Candidate Starts for Gibbous_37:

(Start: 88 @28990 has 3 MA's), (Start: 96 @28969 has 17 MA's), (Start: 101 @28960 has 3 MA's), (113, 28930), (134, 28816), (155, 28762), (166, 28720), (171, 28699), (197, 28597), (204, 28567), (216, 28492), (220, 28462), (228, 28438), (279, 28300), (309, 28201), (313, 28183), (315, 28177), (316, 28171), (331, 28114), (336, 28093),

Gene: Gibson_66 Start: 47338, Stop: 46340, Start Num: 67

Candidate Starts for Gibson_66:

(Start: 67 @47338 has 7 MA's), (73, 47326), (160, 47047), (161, 47044), (196, 46915), (203, 46888), (209, 46852), (220, 46777), (223, 46765), (236, 46702), (306, 46603), (316, 46561), (326, 46528), (330, 46519), (344, 46447), (345, 46441), (361, 46357),

Gene: Gilda_43 Start: 28844, Stop: 29998, Start Num: 65

Candidate Starts for Gilda_43:

(1, 28445), (Start: 65 @28844 has 47 MA's), (Start: 74 @28865 has 1 MA's), (140, 29075), (160, 29138), (183, 29234), (209, 29339), (236, 29489), (253, 29579), (266, 29615), (281, 29645), (309, 29750), (324, 29807), (344, 29891), (353, 29948),

Gene: Giuseppe_58 Start: 43075, Stop: 44253, Start Num: 60

Candidate Starts for Giuseppe_58:

(5, 42793), (7, 42823), (15, 42886), (Start: 60 @43075 has 46 MA's), (Start: 82 @43123 has 3 MA's), (104, 43162), (108, 43174), (130, 43273), (146, 43336), (160, 43390), (171, 43438), (195, 43504), (217, 43618), (220, 43645), (226, 43675), (236, 43720), (306, 43954), (323, 44020), (326, 44029), (330, 44038), (356, 44164), (372, 44245),

Gene: Glamour_36 Start: 26824, Stop: 25634, Start Num: 44

Candidate Starts for Glamour_36:

(40, 26833), (Start: 44 @26824 has 3 MA's), (Start: 61 @26797 has 32 MA's), (113, 26686), (114, 26683), (122, 26638), (172, 26452), (182, 26419), (188, 26401), (193, 26377), (197, 26362), (206, 26311), (221, 26221), (248, 26083), (253, 26053), (272, 26023), (282, 25996), (310, 25894), (336, 25801), (341, 25768), (345, 25744), (347, 25732),

Gene: GoldHunter_42 Start: 29791, Stop: 28760, Start Num: 103

Candidate Starts for GoldHunter_42:

(Start: 103 @29791 has 22 MA's), (147, 29620), (171, 29533), (185, 29476), (202, 29407), (209, 29374), (220, 29296), (237, 29245), (305, 29050), (309, 29032), (313, 29014), (335, 28930), (339, 28912),

Gene: Golden_36 Start: 26754, Stop: 25594, Start Num: 52

Candidate Starts for Golden_36:

(26, 26817), (27, 26814), (Start: 52 @26754 has 13 MA's), (113, 26634), (114, 26631), (172, 26400), (197, 26310), (203, 26283), (294, 25923), (299, 25908), (310, 25857), (341, 25731), (345, 25707), (347, 25695),

Gene: Greenlvy_35 Start: 25564, Stop: 24386, Start Num: 61

Candidate Starts for Greenlvy_35:

(29, 25636), (33, 25630), (37, 25621), (Start: 61 @25564 has 32 MA's), (113, 25450), (193, 25132), (197, 25117), (206, 25066), (239, 24874), (248, 24838), (272, 24778), (274, 24775), (299, 24700), (310, 24649), (339, 24544), (347, 24487),

Gene: GretellYn_65 Start: 44537, Stop: 45700, Start Num: 63

Candidate Starts for GretellYn_65:

(Start: 63 @44537 has 31 MA's), (73, 44552), (121, 44681), (139, 44771), (140, 44774), (151, 44810), (160, 44843), (195, 44957), (203, 44984), (209, 45023), (210, 45038), (216, 45068), (220, 45098), (226, 45128), (237, 45176), (250, 45251), (265, 45272), (281, 45311), (309, 45413), (323, 45467), (326, 45476), (330, 45485), (337, 45509), (352, 45602), (372, 45692),

Gene: Greys_38 Start: 27089, Stop: 25905, Start Num: 52

Candidate Starts for Greys_38:

(21, 27200), (27, 27149), (Start: 52 @27089 has 13 MA's), (Start: 55 @27080 has 127 MA's), (113, 26957), (132, 26855), (177, 26705), (193, 26648), (248, 26354), (253, 26324), (272, 26294), (274, 26291), (305, 26186), (309, 26168), (312, 26156), (321, 26123), (336, 26072), (341, 26039),

Gene: GrootJr_68 Start: 52691, Stop: 51492, Start Num: 60

Candidate Starts for GrootJr_68:

(Start: 60 @52691 has 46 MA's), (152, 52403), (153, 52400), (159, 52379), (160, 52373), (220, 52100), (223, 52088), (226, 52070), (234, 52037), (237, 52022), (253, 51935), (281, 51848), (286, 51833), (296, 51803), (297, 51800), (309, 51746), (324, 51689), (325, 51686), (326, 51683), (330, 51674), (350, 51566), (357, 51542),

Gene: Gubbabump_37 Start: 26760, Stop: 25585, Start Num: 55

Candidate Starts for Gubbabump_37:

(21, 26880), (27, 26829), (Start: 52 @26769 has 13 MA's), (Start: 55 @26760 has 127 MA's), (113, 26637), (Start: 116 @26622 has 1 MA's), (132, 26535), (177, 26385), (193, 26328), (197, 26313), (248, 26034), (253, 26004), (272, 25974), (274, 25971), (305, 25866), (309, 25848), (312, 25836), (321, 25803), (336, 25752), (341, 25719),

Gene: Guetzie_36 Start: 26730, Stop: 25579, Start Num: 55

Candidate Starts for Guetzie_36:

(26, 26802), (27, 26799), (Start: 52 @26739 has 13 MA's), (Start: 55 @26730 has 127 MA's), (113, 26619), (114, 26616), (172, 26385), (190, 26322), (197, 26295), (203, 26268), (294, 25908), (299, 25893), (310, 25842), (341, 25716), (345, 25692), (347, 25680),

Gene: Gumball_57 Start: 43615, Stop: 44745, Start Num: 82

Candidate Starts for Gumball_57:

(38, 43522), (Start: 52 @43549 has 13 MA's), (Start: 53 @43552 has 1 MA's), (Start: 60 @43567 has 46 MA's), (Start: 82 @43615 has 3 MA's), (104, 43654), (108, 43666), (130, 43765), (146, 43828), (160, 43882), (171, 43930), (195, 43996), (217, 44110), (220, 44137), (226, 44167), (236, 44212), (306, 44446), (323, 44512), (326, 44521), (330, 44530), (356, 44656), (372, 44737),

Gene: GuyFagieri_66 Start: 50059, Stop: 48929, Start Num: 60

Candidate Starts for GuyFagieri_66:

(18, 50194), (41, 50089), (Start: 60 @50059 has 46 MA's), (131, 49861), (160, 49738), (162, 49726), (203, 49600), (206, 49573), (237, 49411), (257, 49318), (294, 49246), (326, 49120), (329, 49114), (353, 48988),

Gene: Hager_44 Start: 28317, Stop: 29423, Start Num: 65

Candidate Starts for Hager_44:

(Start: 65 @28317 has 47 MA's), (Start: 74 @28338 has 1 MA's), (140, 28548), (158, 28599), (160, 28611), (183, 28707), (209, 28812), (236, 28962), (309, 29175), (344, 29316), (353, 29373),

Gene: Hamlet_37 Start: 27212, Stop: 26034, Start Num: 55

Candidate Starts for Hamlet_37:

(26, 27284), (Start: 55 @27212 has 127 MA's), (113, 27086), (114, 27083), (163, 26885), (172, 26852), (193, 26777), (197, 26762), (248, 26483), (272, 26423), (274, 26420), (276, 26414), (309, 26297), (336, 26201), (341, 26168),

Gene: HanSolo_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for HanSolo_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: HankSprout_38 Start: 26647, Stop: 25472, Start Num: 55

Candidate Starts for HankSprout_38:

(21, 26767), (27, 26716), (Start: 52 @26656 has 13 MA's), (Start: 55 @26647 has 127 MA's), (113, 26524), (Start: 116 @26509 has 1 MA's), (132, 26422), (177, 26272), (193, 26215), (197, 26200), (248, 25921), (253, 25891), (272, 25861), (274, 25858), (305, 25753), (309, 25735), (312, 25723), (321, 25690), (336, 25639), (341, 25606),

Gene: Hasitha_35 Start: 24987, Stop: 23809, Start Num: 61

Candidate Starts for Hasitha_35:

(29, 25059), (37, 25044), (Start: 61 @24987 has 32 MA's), (113, 24873), (193, 24555), (197, 24540), (206, 24489), (239, 24297), (248, 24261), (272, 24201), (274, 24198), (299, 24123), (310, 24072), (339, 23967), (347, 23910),

Gene: Haunter_43 Start: 28275, Stop: 29381, Start Num: 65

Candidate Starts for Haunter_43:

(Start: 65 @28275 has 47 MA's), (Start: 74 @28296 has 1 MA's), (140, 28506), (160, 28569), (183, 28665), (209, 28770), (236, 28920), (309, 29133), (324, 29190), (344, 29274), (353, 29331),

Gene: Hawkeye_60 Start: 42876, Stop: 44036, Start Num: 60

Candidate Starts for Hawkeye_60:

(46, 42849), (Start: 60 @42876 has 46 MA's), (104, 42963), (130, 43074), (160, 43191), (165, 43212), (202, 43332), (219, 43440), (220, 43446), (223, 43458), (236, 43521), (273, 43638), (297, 43695), (323, 43803), (326, 43812), (329, 43818), (330, 43821),

Gene: Helpful_60 Start: 43436, Stop: 44614, Start Num: 60

Candidate Starts for Helpful_60:

(5, 43154), (15, 43247), (Start: 60 @43436 has 46 MA's), (Start: 82 @43484 has 3 MA's), (104, 43523), (108, 43535), (130, 43634), (146, 43697), (160, 43751), (171, 43799), (195, 43865), (217, 43979), (220, 44006), (226, 44036), (236, 44081), (306, 44315), (323, 44381), (326, 44390), (330, 44399), (356, 44525), (372, 44606),

Gene: HerculesXL_36 Start: 25428, Stop: 24247, Start Num: 55

Candidate Starts for HerculesXL_36:

(10, 25644), (17, 25581), (22, 25536), (26, 25500), (Start: 55 @25428 has 127 MA's), (113, 25299), (122, 25251), (182, 25032), (185, 25020), (188, 25014), (193, 24990), (197, 24975), (206, 24924), (221, 24834), (253, 24666), (266, 24648), (276, 24627), (310, 24507), (321, 24465), (336, 24414), (341, 24381), (345, 24357), (347, 24345),

Gene: Hexbug_49 Start: 32527, Stop: 31505, Start Num: 101

Candidate Starts for Hexbug_49:

(Start: 44 @32659 has 3 MA's), (78, 32575), (84, 32563), (Start: 101 @32527 has 3 MA's), (134, 32383), (147, 32353), (155, 32329), (171, 32266), (185, 32209), (202, 32140), (204, 32134), (206, 32116), (211, 32083), (220, 32029), (228, 32005), (237, 31978), (252, 31909), (279, 31864), (288, 31849), (294, 31828), (302, 31801), (303, 31798), (305, 31783), (316, 31735), (322, 31717), (351, 31570),

Gene: Hiddenleaf_43 Start: 28072, Stop: 29199, Start Num: 65

Candidate Starts for Hiddenleaf_43:

(1, 27679), (3, 27745), (4, 27760), (Start: 65 @28072 has 47 MA's), (Start: 74 @28093 has 1 MA's), (115, 28189), (140, 28303), (160, 28366), (183, 28462), (209, 28567), (236, 28717), (293, 28885), (309, 28951), (324, 29008), (344, 29092), (353, 29149),

Gene: HippoPololi_39 Start: 29421, Stop: 28390, Start Num: 96

Candidate Starts for HippoPololi_39:

(Start: 96 @29421 has 17 MA's), (113, 29382), (134, 29268), (155, 29214), (166, 29172), (171, 29151), (197, 29049), (204, 29019), (261, 28779), (280, 28749), (303, 28686), (309, 28653), (313, 28635), (316, 28623),

Gene: Horseradish_43 Start: 29685, Stop: 28657, Start Num: 103

Candidate Starts for Horseradish_43:

(28, 29859), (46, 29814), (Start: 103 @29685 has 22 MA's), (155, 29490), (171, 29427), (202, 29301), (211, 29244), (220, 29190), (237, 29139), (288, 29010), (291, 29001), (294, 28989), (305, 28944), (309, 28926), (313, 28908), (339, 28806), (351, 28731),

Gene: HubbaBubba_62 Start: 48109, Stop: 47129, Start Num: 136

Candidate Starts for HubbaBubba_62:

(136, 48109), (143, 48085), (152, 48046), (153, 48043), (160, 48016), (164, 47998), (178, 47941), (220, 47743), (223, 47731), (237, 47665), (242, 47638), (252, 47581), (281, 47485), (296, 47440), (297, 47437), (301, 47425), (309, 47383), (326, 47320), (330, 47311), (349, 47209), (350, 47203), (357, 47179),

Gene: HungryHenry_37 Start: 26772, Stop: 25597, Start Num: 55

Candidate Starts for HungryHenry_37:

(21, 26892), (27, 26841), (Start: 52 @26781 has 13 MA's), (Start: 55 @26772 has 127 MA's), (113, 26649), (Start: 116 @26634 has 1 MA's), (132, 26547), (177, 26397), (193, 26340), (197, 26325), (248, 26046), (253, 26016), (272, 25986), (274, 25983), (305, 25878), (309, 25860), (312, 25848), (321, 25815), (336, 25764), (341, 25731),

Gene: Huwbert_79 Start: 48394, Stop: 49503, Start Num: 72

Candidate Starts for Huwbert_79:

(36, 48307), (47, 48334), (Start: 72 @48394 has 2 MA's), (83, 48424), (113, 48490), (117, 48517), (160, 48673), (169, 48706), (175, 48730), (208, 48871), (228, 48976), (313, 49252), (316, 49264), (317, 49267), (318, 49270), (319, 49273), (326, 49297), (338, 49336), (347, 49399), (349, 49411),

Gene: IDyn_65 Start: 49575, Stop: 48376, Start Num: 65

Candidate Starts for IDyn_65:

(Start: 52 @49602 has 13 MA's), (Start: 65 @49575 has 47 MA's), (136, 49356), (143, 49332), (152, 49293), (153, 49290), (160, 49263), (164, 49245), (178, 49188), (220, 48990), (223, 48978), (237, 48912), (242, 48885), (252, 48828), (281, 48732), (296, 48687), (297, 48684), (301, 48672), (309, 48630), (326, 48567), (330, 48558), (349, 48456), (350, 48450), (357, 48426),

Gene: Ilzat_37 Start: 26783, Stop: 25608, Start Num: 55

Candidate Starts for Ilzat_37:

(21, 26903), (27, 26852), (Start: 52 @26792 has 13 MA's), (Start: 55 @26783 has 127 MA's), (113, 26660), (Start: 116 @26645 has 1 MA's), (132, 26558), (177, 26408), (193, 26351), (197, 26336), (248, 26057), (253, 26027), (272, 25997), (274, 25994), (305, 25889), (309, 25871), (312, 25859), (321, 25826), (336, 25775), (341, 25742),

Gene: Indlulamithi_68 Start: 48569, Stop: 49600, Start Num: 66

Candidate Starts for Indlulamithi_68:

(Start: 66 @48569 has 10 MA's), (73, 48584), (112, 48671), (115, 48686), (120, 48710), (Start: 138 @48794 has 1 MA's), (150, 48845), (163, 48896), (179, 48959), (197, 48995), (201, 49013), (202, 49019), (210, 49076), (226, 49166), (236, 49211), (247, 49250), (307, 49316), (324, 49379), (326, 49385), (336, 49415),

Gene: Inventa_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Inventa_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: loannes_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for loannes_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (Start: 116 @26944 has 1 MA's), (132, 26857), (177, 26707), (193, 26650), (197, 26635), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: Ixel_36 Start: 25399, Stop: 24230, Start Num: 61

Candidate Starts for Ixel_36:

(20, 25537), (32, 25465), (Start: 61 @25399 has 32 MA's), (113, 25285), (182, 25018), (188, 25000), (193, 24976), (197, 24961), (206, 24910), (221, 24820), (248, 24682), (341, 24367), (345, 24343),

Gene: JDawG_42 Start: 28489, Stop: 29616, Start Num: 65

Candidate Starts for JDawG_42:

(1, 28096), (4, 28177), (Start: 65 @28489 has 47 MA's), (Start: 74 @28510 has 1 MA's), (140, 28720), (160, 28783), (183, 28879), (209, 28984), (236, 29134), (293, 29302), (309, 29368), (344, 29509), (353, 29566),

Gene: JacoRen57_39 Start: 32689, Stop: 31700, Start Num: 116

Candidate Starts for JacoRen57_39:

(Start: 103 @32731 has 22 MA's), (108, 32719), (Start: 116 @32689 has 1 MA's), (140, 32566), (147, 32542), (160, 32500), (165, 32479), (171, 32455), (188, 32389), (189, 32383), (197, 32353), (202, 32329), (204, 32323), (206, 32305), (209, 32296), (213, 32263), (218, 32230), (236, 32170), (240, 32146), (244, 32134), (248, 32122), (261, 32083), (309, 31951), (313, 31933),

Gene: Jalebi_64 Start: 44890, Stop: 46053, Start Num: 63

Candidate Starts for Jalebi_64:

(Start: 63 @44890 has 31 MA's), (73, 44905), (121, 45034), (139, 45124), (140, 45127), (151, 45163), (160, 45196), (195, 45310), (203, 45337), (209, 45376), (210, 45391), (216, 45421), (220, 45451), (226, 45481), (237, 45529), (281, 45664), (309, 45766), (323, 45820), (326, 45829), (330, 45838), (337, 45862), (352, 45955), (372, 46045),

Gene: Jamemuya19_65 Start: 42672, Stop: 43889, Start Num: 63

Candidate Starts for Jamemuya19_65:

(Start: 63 @42672 has 31 MA's), (73, 42687), (121, 42816), (139, 42906), (140, 42909), (151, 42945), (160, 42978), (195, 43092), (203, 43119), (209, 43158), (210, 43173), (216, 43203), (220, 43233), (226, 43263), (237, 43311), (281, 43500), (323, 43656), (326, 43665), (330, 43674), (337, 43698), (346, 43752), (352, 43791), (372, 43881),

Gene: Jamzy_47 Start: 30741, Stop: 29719, Start Num: 98

Candidate Starts for Jamzy_47:

(Start: 98 @30741 has 3 MA's), (134, 30594), (147, 30564), (171, 30477), (185, 30420), (197, 30375), (202, 30351), (204, 30345), (211, 30294), (220, 30240), (228, 30216), (237, 30189), (303, 30012), (305, 29997), (316, 29949), (339, 29859),

Gene: Janus167_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Janus167_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: JasonD_42 Start: 27633, Stop: 26452, Start Num: 55

Candidate Starts for JasonD_42:

(26, 27705), (Start: 52 @27642 has 13 MA's), (Start: 55 @27633 has 127 MA's), (113, 27504), (168, 27288), (177, 27252), (185, 27225), (193, 27195), (197, 27180), (248, 26901), (253, 26871), (272, 26841), (274, 26838), (277, 26829), (309, 26715), (321, 26670), (341, 26586), (355, 26511),

Gene: JasperRussell_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for JasperRussell_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Jemerald_39 Start: 27469, Stop: 26306, Start Num: 63

Candidate Starts for Jemerald_39:

(26, 27556), (Start: 55 @27484 has 127 MA's), (Start: 63 @27469 has 31 MA's), (94, 27406), (113, 27361), (122, 27313), (177, 27109), (188, 27076), (193, 27052), (197, 27037), (206, 26986), (272, 26698), (294, 26635), (298, 26623), (309, 26572), (341, 26443), (345, 26419), (347, 26407),

Gene: Jenos_41 Start: 28279, Stop: 27101, Start Num: 55

Candidate Starts for Jenos_41:

(26, 28351), (Start: 55 @28279 has 127 MA's), (87, 28216), (113, 28153), (168, 27937), (193, 27844), (197, 27829), (239, 27586), (248, 27550), (253, 27520), (272, 27490), (309, 27364), (321, 27319), (341, 27235), (355, 27160),

Gene: Jerbirus_38 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Jerbirus_38:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: JeriBeth_38 Start: 26630, Stop: 25455, Start Num: 55

Candidate Starts for JeriBeth_38:

(21, 26750), (27, 26699), (Start: 52 @26639 has 13 MA's), (Start: 55 @26630 has 127 MA's), (113, 26507), (Start: 116 @26492 has 1 MA's), (132, 26405), (177, 26255), (193, 26198), (197, 26183), (248, 25904), (253, 25874), (272, 25844), (274, 25841), (305, 25736), (309, 25718), (312, 25706), (321, 25673), (336, 25622), (341, 25589),

Gene: Jifall16_66 Start: 53318, Stop: 52119, Start Num: 60

Candidate Starts for Jifall16_66:

(Start: 60 @53318 has 46 MA's), (152, 53030), (153, 53027), (159, 53006), (160, 53000), (220, 52727), (223, 52715), (226, 52697), (234, 52664), (237, 52649), (253, 52562), (281, 52475), (286, 52460), (296, 52430), (297, 52427), (309, 52373), (324, 52316), (325, 52313), (326, 52310), (330, 52301), (350, 52193), (357, 52169),

Gene: JingleBells_43 Start: 28193, Stop: 29350, Start Num: 65

Candidate Starts for JingleBells_43:

(1, 27800), (4, 27881), (Start: 65 @28193 has 47 MA's), (Start: 74 @28214 has 1 MA's), (140, 28424), (160, 28487), (183, 28583), (209, 28688), (236, 28838), (291, 29030), (293, 29036), (309, 29102), (344, 29243), (353, 29300),

Gene: Jingles_36 Start: 26659, Stop: 25496, Start Num: 52

Candidate Starts for Jingles_36:

(27, 26719), (Start: 52 @26659 has 13 MA's), (Start: 100 @26569 has 2 MA's), (113, 26533), (114, 26530), (172, 26299), (193, 26224), (197, 26209), (203, 26182), (236, 26002), (294, 25822), (299, 25807), (341, 25630), (347, 25594), (355, 25555),

Gene: Juanyo_36 Start: 26603, Stop: 25416, Start Num: 57

Candidate Starts for Juanyo_36:

(26, 26675), (Start: 53 @26612 has 1 MA's), (Start: 57 @26603 has 1 MA's), (113, 26480), (Start: 116 @26465 has 1 MA's), (163, 26279), (190, 26174), (193, 26162), (197, 26147), (206, 26096), (253, 25838), (274, 25805), (284, 25772), (299, 25730), (310, 25679), (321, 25637), (336, 25586), (345, 25529), (347, 25517),

Gene: Juicer_39 Start: 27469, Stop: 26306, Start Num: 63

Candidate Starts for Juicer_39:

(26, 27556), (Start: 55 @27484 has 127 MA's), (Start: 63 @27469 has 31 MA's), (94, 27406), (113, 27361), (122, 27313), (177, 27109), (188, 27076), (193, 27052), (197, 27037), (206, 26986), (272, 26698), (294, 26635), (298, 26623), (309, 26572), (341, 26443), (345, 26419), (347, 26407),

Gene: Kabluna_69 Start: 52277, Stop: 51069, Start Num: 65

Candidate Starts for Kabluna_69:

(Start: 65 @52277 has 47 MA's), (136, 52055), (143, 52031), (146, 52016), (152, 51992), (153, 51989), (160, 51962), (178, 51887), (206, 51770), (223, 51674), (237, 51608), (256, 51497), (274, 51449), (281, 51428), (295, 51386), (301, 51368), (309, 51326), (323, 51272), (326, 51263), (330, 51254), (350, 51146),

Gene: Kale_37 Start: 26782, Stop: 25607, Start Num: 55

Candidate Starts for Kale_37:

(21, 26902), (27, 26851), (Start: 52 @26791 has 13 MA's), (Start: 55 @26782 has 127 MA's), (113, 26659), (Start: 116 @26644 has 1 MA's), (177, 26407), (193, 26350), (248, 26056), (253, 26026), (272, 25996), (274, 25993), (305, 25888), (309, 25870), (312, 25858), (321, 25825), (336, 25774), (341, 25741),

Gene: KandZ_56 Start: 43281, Stop: 44411, Start Num: 82

Candidate Starts for KandZ_56:

(Start: 60 @43233 has 46 MA's), (Start: 82 @43281 has 3 MA's), (104, 43320), (108, 43332), (130, 43431), (146, 43494), (160, 43548), (171, 43596), (195, 43662), (217, 43776), (220, 43803), (226, 43833), (236, 43878), (306, 44112), (323, 44178), (326, 44187), (330, 44196), (356, 44322), (372, 44403),

Gene: KannH_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for KannH_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Karate_42 Start: 28845, Stop: 29999, Start Num: 65

Candidate Starts for Karate_42:

(Start: 65 @28845 has 47 MA's), (Start: 74 @28866 has 1 MA's), (140, 29076), (160, 29139), (183, 29235), (209, 29340), (236, 29490), (266, 29616), (281, 29646), (309, 29751), (344, 29892), (353, 29949),

Gene: KatChan_38 Start: 26321, Stop: 25158, Start Num: 61

Candidate Starts for KatChan_38:

(Start: 61 @26321 has 32 MA's), (73, 26309), (113, 26210), (114, 26207), (155, 26045), (193, 25901), (197, 25886), (206, 25835), (221, 25745), (248, 25607), (253, 25577), (272, 25547), (294, 25484), (299, 25469), (347, 25256),

Gene: Kate_44 Start: 28852, Stop: 30006, Start Num: 65

Candidate Starts for Kate_44:

(1, 28453), (Start: 65 @28852 has 47 MA's), (Start: 74 @28873 has 1 MA's), (140, 29083), (160, 29146), (183, 29242), (209, 29347), (236, 29497), (253, 29587), (266, 29623), (281, 29653), (309, 29758), (324, 29815), (344, 29899), (353, 29956),

Gene: Kauala_36 Start: 26645, Stop: 25482, Start Num: 52

Candidate Starts for Kauala_36:

(27, 26705), (Start: 52 @26645 has 13 MA's), (Start: 100 @26555 has 2 MA's), (113, 26519), (114, 26516), (172, 26285), (193, 26210), (197, 26195), (203, 26168), (236, 25988), (299, 25793), (341, 25616), (345, 25592), (347, 25580), (355, 25541),

Gene: KayGee_44 Start: 31626, Stop: 30580, Start Num: 103

Candidate Starts for KayGee_44:

(89, 31656), (Start: 99 @31632 has 1 MA's), (Start: 103 @31626 has 22 MA's), (140, 31461), (147, 31437), (150, 31428), (160, 31395), (171, 31350), (197, 31248), (211, 31167), (228, 31089), (240, 31041), (278, 30948), (293, 30912), (303, 30879), (304, 30873), (305, 30864), (308, 30849), (313, 30828), (317, 30813), (345, 30684), (347, 30672), (348, 30666), (351, 30651),

Gene: KidneyBean_67 Start: 53442, Stop: 52243, Start Num: 60

Candidate Starts for KidneyBean_67:

(Start: 60 @53442 has 46 MA's), (152, 53154), (153, 53151), (159, 53130), (160, 53124), (220, 52851), (223, 52839), (226, 52821), (234, 52788), (237, 52773), (253, 52686), (281, 52599), (286, 52584), (296, 52554), (297, 52551), (309, 52497), (324, 52440), (325, 52437), (326, 52434), (330, 52425), (350, 52317), (357, 52293),

Gene: KimJongPhill_82 Start: 60719, Stop: 61843, Start Num: 79

Candidate Starts for KimJongPhill_82:

(6, 60410), (11, 60458), (43, 60635), (Start: 79 @60719 has 2 MA's), (113, 60797), (117, 60824), (126, 60866), (154, 60986), (171, 61052), (175, 61064), (185, 61109), (188, 61118), (197, 61160), (202, 61184), (204, 61190), (208, 61214), (228, 61319), (239, 61364), (242, 61373), (269, 61451), (303, 61550), (313, 61601), (328, 61649), (334, 61676), (341, 61709), (347, 61745), (359, 61811), (365, 61835),

Gene: Kimchi1738_70 Start: 50509, Stop: 49391, Start Num: 69

Candidate Starts for Kimchi1738_70:

(Start: 69 @50509 has 10 MA's), (120, 50374), (131, 50323), (160, 50209), (170, 50167), (178, 50134), (199, 50071), (201, 50062), (203, 50053), (209, 50017), (216, 49963), (250, 49780), (320, 49591), (326, 49570), (336, 49540), (348, 49468), (351, 49453), (352, 49444),

Gene: KingJulien_37 Start: 27202, Stop: 26024, Start Num: 55

Candidate Starts for KingJulien_37:

(26, 27274), (Start: 52 @27211 has 13 MA's), (Start: 55 @27202 has 127 MA's), (113, 27076), (114, 27073), (172, 26842), (193, 26767), (197, 26752), (248, 26473), (272, 26413), (274, 26410), (309, 26287), (336, 26191), (341, 26158),

Gene: Klimt_37 Start: 26762, Stop: 25587, Start Num: 55

Candidate Starts for Klimt_37:

(21, 26882), (27, 26831), (Start: 52 @26771 has 13 MA's), (Start: 55 @26762 has 127 MA's), (113, 26639), (119, 26606), (177, 26387), (193, 26330), (248, 26036), (253, 26006), (272, 25976), (274, 25973), (305, 25868), (309, 25850), (312, 25838), (321, 25805), (336, 25754), (341, 25721),

Gene: Knox_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for Knox_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: Koji_36 Start: 26838, Stop: 25675, Start Num: 52

Candidate Starts for Koji_36:

(27, 26898), (Start: 52 @26838 has 13 MA's), (Start: 100 @26748 has 2 MA's), (113, 26712), (114, 26709), (172, 26478), (190, 26415), (193, 26403), (197, 26388), (203, 26361), (236, 26181), (246, 26136), (294, 26001), (299, 25986), (341, 25809), (347, 25773), (355, 25734),

Gene: Konstantine_71 Start: 50914, Stop: 52203, Start Num: 50

Candidate Starts for Konstantine_71:

(34, 50875), (Start: 44 @50899 has 3 MA's), (Start: 50 @50914 has 8 MA's), (105, 51028), (111, 51046), (120, 51088), (159, 51262), (160, 51268), (171, 51319), (198, 51433), (202, 51451), (203, 51454), (205, 51469), (209, 51490), (231, 51622), (233, 51628), (290, 51811), (297, 51829), (309, 51883), (325, 51943), (337, 51979), (353, 52075),

Gene: Kors_47 Start: 29786, Stop: 30883, Start Num: 68

Candidate Starts for Kors_47:

(Start: 39 @29732 has 1 MA's), (Start: 68 @29786 has 3 MA's), (71, 29789), (Start: 74 @29795 has 1 MA's), (140, 30005), (142, 30011), (158, 30056), (160, 30068), (176, 30131), (183, 30164), (209, 30269), (238, 30431), (293, 30566), (301, 30590), (346, 30782), (353, 30830),

Gene: Krampus_43 Start: 28852, Stop: 30006, Start Num: 65

Candidate Starts for Krampus_43:

(1, 28453), (Start: 65 @28852 has 47 MA's), (Start: 74 @28873 has 1 MA's), (140, 29083), (160, 29146), (183, 29242), (209, 29347), (236, 29497), (253, 29587), (266, 29623), (281, 29653), (309,

29758), (324, 29815), (344, 29899), (353, 29956),

Gene: Kurt_66 Start: 53312, Stop: 52113, Start Num: 60

Candidate Starts for Kurt_66:

(Start: 60 @53312 has 46 MA's), (152, 53024), (153, 53021), (159, 53000), (160, 52994), (220, 52721), (223, 52709), (226, 52691), (234, 52658), (237, 52643), (253, 52556), (281, 52469), (286, 52454), (296, 52424), (297, 52421), (309, 52367), (324, 52310), (325, 52307), (326, 52304), (330, 52295), (350, 52187), (357, 52163),

Gene: Kurt1_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Kurt1_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Labelle_80 Start: 52685, Stop: 53917, Start Num: 56

Candidate Starts for Labelle_80:

(Start: 56 @52685 has 3 MA's), (87, 52739), (107, 52778), (108, 52781), (111, 52790), (118, 52823), (123, 52847), (158, 53012), (160, 53024), (180, 53105), (199, 53189), (204, 53210), (209, 53252), (233, 53390), (243, 53441), (252, 53492), (281, 53528), (297, 53576), (309, 53630), (326, 53693), (360, 53861), (370, 53903),

Gene: Lambo_63 Start: 43490, Stop: 44707, Start Num: 63

Candidate Starts for Lambo_63:

(Start: 63 @43490 has 31 MA's), (73, 43505), (121, 43634), (139, 43724), (140, 43727), (151, 43763), (160, 43796), (195, 43910), (203, 43937), (209, 43976), (210, 43991), (216, 44021), (220, 44051), (226, 44081), (237, 44129), (309, 44420), (323, 44474), (326, 44483), (330, 44492), (337, 44516), (352, 44609), (372, 44699),

Gene: Lauer_39 Start: 32447, Stop: 31389, Start Num: 92

Candidate Starts for Lauer_39:

(Start: 92 @32447 has 1 MA's), (129, 32321), (140, 32270), (147, 32246), (150, 32237), (160, 32204), (171, 32159), (197, 32057), (211, 31976), (228, 31898), (240, 31850), (278, 31757), (293, 31721), (303, 31688), (304, 31682), (305, 31673), (313, 31637), (317, 31622), (345, 31493), (347, 31481), (348, 31475), (351, 31460),

Gene: Leafus_37 Start: 27347, Stop: 26169, Start Num: 55

Candidate Starts for Leafus_37:

(26, 27419), (Start: 55 @27347 has 127 MA's), (113, 27221), (114, 27218), (163, 27020), (172, 26987), (193, 26912), (197, 26897), (248, 26618), (272, 26558), (274, 26555), (276, 26549), (309, 26432), (336, 26336), (341, 26303),

Gene: Leopard_73 Start: 50916, Stop: 52133, Start Num: 60

Candidate Starts for Leopard_73:

(Start: 60 @50916 has 46 MA's), (Start: 74 @50943 has 1 MA's), (97, 50997), (111, 51042), (125, 51108), (127, 51120), (137, 51168), (141, 51180), (148, 51210), (149, 51213), (158, 51240), (163, 51267), (197, 51396), (214, 51516), (216, 51522), (233, 51612), (241, 51654), (245, 51672), (249, 51690), (283, 51753), (306, 51837), (326, 51912), (329, 51918), (330, 51921), (344, 51990), (346, 51999), (354, 52044), (366, 52101),

Gene: Librie_35 Start: 24974, Stop: 23796, Start Num: 61

Candidate Starts for Librie_35:

(29, 25046), (37, 25031), (Start: 61 @24974 has 32 MA's), (113, 24860), (193, 24542), (197, 24527), (206, 24476), (239, 24284), (248, 24248), (272, 24188), (274, 24185), (299, 24110), (310, 24059), (339, 23954), (347, 23897),

Gene: LilTerminator_36 Start: 24996, Stop: 23818, Start Num: 61

Candidate Starts for LilTerminator_36:

(29, 25068), (37, 25053), (Start: 61 @24996 has 32 MA's), (113, 24882), (124, 24825), (193, 24564), (197, 24549), (206, 24498), (239, 24306), (248, 24270), (272, 24210), (274, 24207), (299, 24132), (310, 24081), (339, 23976), (347, 23919),

Gene: Lila22_66 Start: 44442, Stop: 45659, Start Num: 63

Candidate Starts for Lila22_66:

(Start: 63 @44442 has 31 MA's), (73, 44457), (121, 44586), (139, 44676), (140, 44679), (151, 44715), (160, 44748), (195, 44862), (203, 44889), (209, 44928), (210, 44943), (216, 44973), (220, 45003), (226, 45033), (237, 45081), (323, 45426), (326, 45435), (330, 45444), (337, 45468), (352, 45561), (372, 45651),

Gene: Lizz_66 Start: 47161, Stop: 46163, Start Num: 67

Candidate Starts for Lizz_66:

(45, 47212), (Start: 67 @47161 has 7 MA's), (73, 47149), (160, 46870), (161, 46867), (196, 46738), (203, 46711), (209, 46675), (220, 46600), (223, 46588), (236, 46525), (316, 46384), (326, 46351), (330, 46342), (344, 46270), (345, 46264), (361, 46180),

Gene: Lollipop1437_70 Start: 53959, Stop: 52760, Start Num: 54

Candidate Starts for Lollipop1437_70:

(Start: 54 @53959 has 2 MA's), (Start: 58 @53950 has 3 MA's), (130, 53752), (151, 53659), (152, 53656), (153, 53653), (160, 53626), (164, 53608), (178, 53551), (223, 53356), (224, 53353), (226, 53338), (237, 53290), (259, 53176), (264, 53164), (281, 53116), (297, 53068), (309, 53014), (326, 52951), (330, 52942), (352, 52822),

Gene: LordBart_46 Start: 29704, Stop: 30792, Start Num: 74

Candidate Starts for LordBart_46:

(Start: 39 @29641 has 1 MA's), (Start: 68 @29695 has 3 MA's), (71, 29698), (Start: 74 @29704 has 1 MA's), (140, 29914), (142, 29920), (158, 29965), (160, 29977), (176, 30040), (183, 30073), (209, 30178), (238, 30340), (293, 30475), (301, 30499), (346, 30691), (353, 30739),

Gene: Lovelyunicorn_38 Start: 27083, Stop: 25908, Start Num: 55

Candidate Starts for Lovelyunicorn_38:

(21, 27203), (27, 27152), (Start: 52 @27092 has 13 MA's), (Start: 55 @27083 has 127 MA's), (113, 26960), (132, 26858), (177, 26708), (193, 26651), (248, 26357), (253, 26327), (272, 26297), (274, 26294), (305, 26189), (309, 26171), (312, 26159), (321, 26126), (336, 26075), (341, 26042),

Gene: Lucky3_36 Start: 26754, Stop: 25594, Start Num: 52

Candidate Starts for Lucky3_36:

(26, 26817), (27, 26814), (Start: 52 @26754 has 13 MA's), (113, 26634), (114, 26631), (172, 26400), (197, 26310), (203, 26283), (294, 25923), (299, 25908), (310, 25857), (341, 25731), (345, 25707), (347, 25695),

Gene: LuckyLeo_62 Start: 43297, Stop: 44457, Start Num: 63

Candidate Starts for LuckyLeo_62:

(Start: 63 @43297 has 31 MA's), (73, 43312), (121, 43441), (139, 43531), (153, 43576), (160, 43603), (203, 43744), (210, 43795), (216, 43825), (220, 43855), (237, 43933), (249, 43993), (250, 44008), (260, 44029), (281, 44068), (283, 44074), (311, 44176), (323, 44224), (326, 44233), (337, 44266),

(352, 44359), (372, 44449),

Gene: Ludgate_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Ludgate_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Luna18_38 Start: 26321, Stop: 25158, Start Num: 61

Candidate Starts for Luna18_38:

(Start: 61 @26321 has 32 MA's), (73, 26309), (113, 26210), (114, 26207), (155, 26045), (193, 25901), (197, 25886), (206, 25835), (221, 25745), (248, 25607), (253, 25577), (272, 25547), (294, 25484), (299, 25469), (347, 25256),

Gene: MAnor_44 Start: 31980, Stop: 30922, Start Num: 96

Candidate Starts for MAnor_44:

(86, 32004), (Start: 96 @31980 has 17 MA's), (129, 31854), (140, 31803), (150, 31770), (160, 31737), (171, 31692), (197, 31590), (203, 31563), (211, 31509), (228, 31431), (236, 31407), (240, 31383), (278, 31290), (303, 31221), (304, 31215), (305, 31206), (313, 31170), (314, 31167), (317, 31155), (339, 31068), (345, 31026), (347, 31014), (348, 31008), (351, 30993),

Gene: MCubed_37 Start: 26822, Stop: 25659, Start Num: 61

Candidate Starts for MCubed_37:

(40, 26858), (Start: 44 @26849 has 3 MA's), (Start: 61 @26822 has 32 MA's), (113, 26711), (122, 26663), (172, 26477), (182, 26444), (188, 26426), (193, 26402), (197, 26387), (206, 26336), (221, 26246), (248, 26108), (253, 26078), (272, 26048), (274, 26045), (282, 26021), (310, 25919), (336, 25826), (341, 25793), (345, 25769), (347, 25757),

Gene: MScarn_45 Start: 29939, Stop: 28908, Start Num: 103

Candidate Starts for MScarn_45:

(46, 30068), (Start: 57 @30038 has 1 MA's), (Start: 80 @29984 has 1 MA's), (85, 29975), (Start: 103 @29939 has 22 MA's), (134, 29798), (171, 29681), (185, 29624), (202, 29555), (209, 29522), (220, 29444), (237, 29393), (305, 29198), (309, 29180), (313, 29162), (335, 29078), (339, 29060),

Gene: MaVan_39 Start: 29709, Stop: 28678, Start Num: 96

Candidate Starts for MaVan_39:

(Start: 96 @29709 has 17 MA's), (113, 29670), (124, 29613), (134, 29556), (147, 29526), (166, 29460), (171, 29439), (197, 29337), (204, 29307), (209, 29280), (216, 29232), (220, 29202), (280, 29037), (309, 28941), (313, 28923), (317, 28908),

Gene: MacGully_76 Start: 53240, Stop: 52086, Start Num: 60

Candidate Starts for MacGully_76:

(41, 53291), (Start: 60 @53240 has 46 MA's), (131, 53042), (153, 52946), (160, 52919), (162, 52907), (171, 52871), (203, 52781), (236, 52595), (237, 52592), (245, 52550), (256, 52490), (297, 52394), (326, 52277), (329, 52271), (352, 52148), (353, 52145),

Gene: Maco6_41 Start: 31189, Stop: 30173, Start Num: 96

Candidate Starts for Maco6_41:

(Start: 96 @31189 has 17 MA's), (123, 31096), (124, 31093), (145, 31006), (171, 30919), (185, 30862), (189, 30847), (202, 30793), (240, 30610), (305, 30439), (308, 30424), (313, 30403), (329, 30355), (344, 30277), (353, 30226), (358, 30205),

Gene: Madruga_79 Start: 52639, Stop: 53871, Start Num: 56

Candidate Starts for Madruga_79:

(Start: 56 @52639 has 3 MA's), (87, 52693), (108, 52735), (111, 52744), (118, 52777), (123, 52801), (158, 52966), (160, 52978), (180, 53059), (199, 53143), (204, 53164), (209, 53206), (233, 53344), (243, 53395), (252, 53446), (281, 53482), (297, 53530), (309, 53584), (326, 53647), (360, 53815), (370, 53857),

Gene: MaeLinda_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for MaeLinda_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (Start: 116 @26944 has 1 MA's), (177, 26707), (193, 26650), (197, 26635), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: ManRay_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for ManRay_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (Start: 116 @26642 has 1 MA's), (177, 26405), (193, 26348), (197, 26333), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: Mandalorian_35 Start: 26523, Stop: 25345, Start Num: 61

Candidate Starts for Mandalorian_35:

(Start: 61 @26523 has 32 MA's), (108, 26424), (113, 26409), (Start: 116 @26394 has 1 MA's), (188, 26115), (190, 26103), (193, 26091), (197, 26076), (206, 26025), (248, 25797), (253, 25767), (272, 25737), (274, 25734), (294, 25674), (299, 25659), (310, 25608), (336, 25515), (347, 25446),

Gene: Margaret_48 Start: 31484, Stop: 30459, Start Num: 99

Candidate Starts for Margaret_48:

(Start: 99 @31484 has 1 MA's), (108, 31466), (Start: 109 @31463 has 1 MA's), (134, 31337), (147, 31307), (171, 31220), (185, 31163), (202, 31094), (204, 31088), (211, 31037), (220, 30983), (228, 30959), (237, 30932), (252, 30863), (279, 30818), (288, 30803), (302, 30755), (303, 30752), (305, 30737), (316, 30689), (322, 30671), (351, 30524),

Gene: Marietta_68 Start: 49875, Stop: 48676, Start Num: 65

Candidate Starts for Marietta_68:

(Start: 65 @49875 has 47 MA's), (136, 49656), (143, 49632), (152, 49593), (153, 49590), (160, 49563), (164, 49545), (178, 49488), (220, 49290), (237, 49212), (242, 49185), (252, 49128), (253, 49125), (281, 49032), (296, 48987), (297, 48984), (301, 48972), (309, 48930), (326, 48867), (330, 48858), (349, 48756), (350, 48750), (357, 48726),

Gene: Martin_39 Start: 27087, Stop: 25912, Start Num: 55

Candidate Starts for Martin_39:

(21, 27207), (27, 27156), (Start: 52 @27096 has 13 MA's), (Start: 55 @27087 has 127 MA's), (113, 26964), (Start: 116 @26949 has 1 MA's), (177, 26712), (193, 26655), (197, 26640), (248, 26361), (253, 26331), (272, 26301), (274, 26298), (305, 26193), (309, 26175), (312, 26163), (321, 26130), (336, 26079), (341, 26046),

Gene: Maselop_67 Start: 50089, Stop: 48926, Start Num: 60

Candidate Starts for Maselop_67:

(18, 50227), (41, 50119), (Start: 60 @50089 has 46 MA's), (131, 49891), (160, 49768), (162, 49756), (203, 49630), (206, 49603), (237, 49441), (270, 49297), (289, 49258), (297, 49234), (326, 49117), (329, 49111), (353, 48985),

Gene: Mayweather_46 Start: 32259, Stop: 31201, Start Num: 96

Candidate Starts for Mayweather_46:

(86, 32283), (Start: 96 @32259 has 17 MA's), (129, 32133), (140, 32082), (147, 32058), (150, 32049), (160, 32016), (171, 31971), (197, 31869), (211, 31788), (228, 31710), (240, 31662), (278, 31569), (303, 31500), (304, 31494), (305, 31485), (313, 31449), (314, 31446), (317, 31434), (345, 31305), (347, 31293), (348, 31287), (351, 31272),

Gene: McGalleon_40 Start: 28490, Stop: 27312, Start Num: 55

Candidate Starts for McGalleon_40:

(26, 28562), (Start: 55 @28490 has 127 MA's), (113, 28364), (168, 28148), (193, 28055), (197, 28040), (248, 27761), (251, 27737), (253, 27731), (272, 27701), (309, 27575), (321, 27530), (341, 27446), (355, 27371),

Gene: Megatron06_68 Start: 50660, Stop: 51949, Start Num: 50

Candidate Starts for Megatron06_68:

(34, 50621), (Start: 44 @50645 has 3 MA's), (Start: 50 @50660 has 8 MA's), (105, 50774), (108, 50783), (111, 50792), (120, 50834), (159, 51008), (160, 51014), (171, 51065), (198, 51179), (202, 51197), (203, 51200), (205, 51215), (209, 51236), (231, 51368), (233, 51374), (274, 51512), (290, 51557), (297, 51575), (309, 51629), (325, 51689), (337, 51725), (353, 51821),

Gene: MerCougar_69 Start: 54002, Stop: 52794, Start Num: 65

Candidate Starts for MerCougar_69:

(Start: 65 @54002 has 47 MA's), (136, 53780), (143, 53756), (152, 53717), (153, 53714), (160, 53687), (178, 53612), (223, 53399), (237, 53333), (253, 53246), (256, 53222), (274, 53174), (297, 53105), (301, 53093), (309, 53051), (323, 52997), (326, 52988), (330, 52979), (350, 52871), (352, 52859),

Gene: Mercedes_32 Start: 23957, Stop: 22776, Start Num: 61

Candidate Starts for Mercedes_32:

(Start: 61 @23957 has 32 MA's), (113, 23843), (177, 23591), (190, 23537), (193, 23525), (206, 23459), (248, 23231), (253, 23201), (274, 23168), (299, 23093), (310, 23042), (336, 22949), (347, 22880),

Gene: MillyPhilly_38 Start: 27075, Stop: 25900, Start Num: 55

Candidate Starts for MillyPhilly_38:

(21, 27195), (27, 27144), (Start: 52 @27084 has 13 MA's), (Start: 55 @27075 has 127 MA's), (113, 26952), (Start: 116 @26937 has 1 MA's), (177, 26700), (193, 26643), (197, 26628), (248, 26349), (253, 26319), (272, 26289), (274, 26286), (305, 26181), (309, 26163), (312, 26151), (321, 26118), (336, 26067), (341, 26034),

Gene: Mima20_66 Start: 44053, Stop: 45216, Start Num: 63

Candidate Starts for Mima20_66:

(Start: 63 @44053 has 31 MA's), (73, 44068), (121, 44197), (139, 44287), (140, 44290), (151, 44326), (160, 44359), (195, 44473), (203, 44500), (209, 44539), (210, 44554), (216, 44584), (220, 44614), (226, 44644), (237, 44692), (281, 44827), (309, 44929), (323, 44983), (326, 44992), (330, 45001), (337, 45025), (352, 45118), (372, 45208),

Gene: MoiGyank_68 Start: 44818, Stop: 45981, Start Num: 63

Candidate Starts for MoiGyank_68:

(Start: 63 @44818 has 31 MA's), (73, 44833), (121, 44962), (139, 45052), (140, 45055), (151, 45091), (160, 45124), (195, 45238), (203, 45265), (209, 45304), (210, 45319), (216, 45349), (220, 45379), (226, 45409), (237, 45457), (281, 45592), (309, 45694), (323, 45748), (326, 45757), (330, 45766), (337, 45790), (352, 45883), (372, 45973),

Gene: MonChoix_36 Start: 27095, Stop: 25917, Start Num: 55

Candidate Starts for MonChoix_36:

(23, 27194), (25, 27173), (26, 27167), (Start: 55 @27095 has 127 MA's), (113, 26969), (119, 26936), (132, 26867), (172, 26735), (177, 26717), (193, 26660), (197, 26645), (239, 26402), (248, 26366), (253, 26336), (272, 26306), (274, 26303), (309, 26180), (312, 26168), (321, 26135), (336, 26084), (341, 26051),

Gene: MontyDev_71 Start: 51361, Stop: 52530, Start Num: 66

Candidate Starts for MontyDev_71:

(Start: 66 @51361 has 10 MA's), (73, 51376), (91, 51418), (108, 51451), (157, 51652), (160, 51667), (197, 51799), (209, 51862), (210, 51877), (232, 51994), (293, 52195), (295, 52201), (297, 52207), (298, 52210), (324, 52318), (326, 52324), (353, 52456), (367, 52516),

Gene: Mopey_58 Start: 43111, Stop: 44289, Start Num: 60

Candidate Starts for Mopey_58:

(5, 42829), (7, 42859), (15, 42922), (Start: 60 @43111 has 46 MA's), (Start: 82 @43159 has 3 MA's), (104, 43198), (108, 43210), (130, 43309), (146, 43372), (160, 43426), (171, 43474), (195, 43540), (217, 43654), (220, 43681), (226, 43711), (236, 43756), (306, 43990), (323, 44056), (326, 44065), (330, 44074), (356, 44200), (372, 44281),

Gene: Morrigan_38 Start: 26342, Stop: 25179, Start Num: 61

Candidate Starts for Morrigan_38:

(Start: 61 @26342 has 32 MA's), (73, 26330), (113, 26231), (177, 25979), (182, 25964), (188, 25946), (190, 25934), (193, 25922), (197, 25907), (206, 25856), (248, 25628), (276, 25559), (294, 25505), (336, 25346), (347, 25277),

Gene: MortySmith_41 Start: 27877, Stop: 29034, Start Num: 65

Candidate Starts for MortySmith_41:

(1, 27484), (4, 27565), (Start: 65 @27877 has 47 MA's), (Start: 74 @27898 has 1 MA's), (140, 28108), (160, 28171), (183, 28267), (209, 28372), (236, 28522), (291, 28714), (293, 28720), (309, 28786), (344, 28927), (353, 28984),

Gene: MrMiyagi_76 Start: 48172, Stop: 49212, Start Num: 60

Candidate Starts for MrMiyagi_76:

(46, 48133), (Start: 60 @48172 has 46 MA's), (Start: 66 @48181 has 10 MA's), (73, 48196), (Start: 80 @48217 has 1 MA's), (115, 48298), (Start: 138 @48406 has 1 MA's), (150, 48457), (161, 48496), (171, 48541), (174, 48550), (206, 48664), (210, 48688), (230, 48799), (300, 48892), (309, 48934), (326, 48997), (336, 49027), (352, 49126),

Gene: MrWorldwide_38 Start: 27085, Stop: 25910, Start Num: 55

Candidate Starts for MrWorldwide_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (Start: 116 @26947 has 1 MA's), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: Muddy_43 Start: 32421, Stop: 31405, Start Num: 96

Candidate Starts for Muddy_43:

(Start: 96 @32421 has 17 MA's), (123, 32328), (124, 32325), (145, 32238), (171, 32151), (185, 32094), (189, 32079), (202, 32025), (240, 31842), (305, 31671), (308, 31656), (313, 31635), (329, 31587), (344, 31509), (353, 31458), (358, 31437),

Gene: MunkgeeRoachy_39 Start: 29253, Stop: 28222, Start Num: 103

Candidate Starts for MunkgeeRoachy_39:

(Start: 103 @29253 has 22 MA's), (147, 29082), (171, 28995), (185, 28938), (202, 28869), (209, 28836), (220, 28758), (237, 28707), (305, 28512), (309, 28494), (313, 28476), (335, 28392), (339, 28374),

Gene: NadineRae_67 Start: 49484, Stop: 48285, Start Num: 65

Candidate Starts for NadineRae_67:

(Start: 65 @49484 has 47 MA's), (136, 49265), (143, 49241), (152, 49202), (153, 49199), (160, 49172), (164, 49154), (178, 49097), (220, 48899), (237, 48821), (242, 48794), (281, 48641), (296, 48596), (297, 48593), (301, 48581), (309, 48539), (326, 48476), (330, 48467), (349, 48365), (350, 48359), (357, 48335),

Gene: Nagem_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Nagem_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (119, 26922), (177, 26703), (193, 26646), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: NarutoRun_43 Start: 28820, Stop: 29974, Start Num: 65

Candidate Starts for NarutoRun_43:

(1, 28421), (Start: 65 @28820 has 47 MA's), (Start: 74 @28841 has 1 MA's), (107, 28910), (140, 29051), (160, 29114), (183, 29210), (209, 29315), (236, 29465), (253, 29555), (266, 29591), (281, 29621), (309, 29726), (324, 29783), (344, 29867), (353, 29924),

Gene: NatB6_66 Start: 52381, Stop: 51182, Start Num: 60

Candidate Starts for NatB6_66:

(Start: 60 @52381 has 46 MA's), (152, 52093), (153, 52090), (159, 52069), (160, 52063), (220, 51790), (223, 51778), (226, 51760), (234, 51727), (237, 51712), (253, 51625), (281, 51538), (286, 51523), (296, 51493), (297, 51490), (309, 51436), (324, 51379), (325, 51376), (326, 51373), (330, 51364), (350, 51256), (357, 51232),

Gene: Nattles_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Nattles_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (177, 26392), (193, 26335), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Nebulous_35 Start: 27982, Stop: 26807, Start Num: 61

Candidate Starts for Nebulous_35:

(19, 28126), (29, 28054), (33, 28048), (Start: 61 @27982 has 32 MA's), (113, 27868), (160, 27682), (193, 27550), (197, 27535), (206, 27484), (221, 27394), (272, 27196), (294, 27133), (336, 26974), (341, 26941), (345, 26917), (355, 26866),

Gene: Neferthema_35 Start: 27068, Stop: 25893, Start Num: 61

Candidate Starts for Neferthema_35:

(Start: 61 @27068 has 32 MA's), (113, 26954), (160, 26768), (188, 26660), (190, 26648), (193, 26636), (197, 26621), (206, 26570), (221, 26480), (336, 26060), (341, 26027), (355, 25952),

Gene: Neptune_43 Start: 28820, Stop: 29974, Start Num: 65

Candidate Starts for Neptune_43:

(1, 28421), (Start: 65 @28820 has 47 MA's), (Start: 74 @28841 has 1 MA's), (140, 29051), (160, 29114), (183, 29210), (209, 29315), (236, 29465), (253, 29555), (266, 29591), (281, 29621), (309,

29726), (324, 29783), (344, 29867), (353, 29924),

Gene: Nibbles_38 Start: 29396, Stop: 28365, Start Num: 96

Candidate Starts for Nibbles_38:

(Start: 96 @29396 has 17 MA's), (113, 29357), (124, 29300), (134, 29243), (147, 29213), (166, 29147), (171, 29126), (197, 29024), (204, 28994), (209, 28967), (216, 28919), (220, 28889), (280, 28724), (309, 28628), (313, 28610), (317, 28595),

Gene: NickSell_38 Start: 27087, Stop: 25909, Start Num: 55

Candidate Starts for NickSell_38:

(21, 27207), (27, 27156), (Start: 52 @27096 has 13 MA's), (Start: 55 @27087 has 127 MA's), (113, 26964), (Start: 116 @26949 has 1 MA's), (177, 26712), (193, 26655), (197, 26640), (248, 26361), (253, 26331), (272, 26301), (274, 26298), (305, 26193), (309, 26175), (312, 26163), (321, 26130), (336, 26079), (341, 26046),

Gene: Nilo_71 Start: 51718, Stop: 52887, Start Num: 66

Candidate Starts for Nilo_71:

(Start: 66 @51718 has 10 MA's), (73, 51733), (91, 51775), (108, 51808), (157, 52009), (160, 52024), (197, 52156), (209, 52219), (210, 52234), (226, 52324), (232, 52351), (293, 52552), (295, 52558), (297, 52564), (324, 52675), (326, 52681), (353, 52813), (367, 52873),

Gene: Nina_40 Start: 29915, Stop: 28884, Start Num: 103

Candidate Starts for Nina_40:

(Start: 99 @29921 has 1 MA's), (Start: 103 @29915 has 22 MA's), (171, 29657), (185, 29600), (202, 29531), (209, 29498), (220, 29420), (237, 29369), (305, 29174), (309, 29156), (313, 29138), (335, 29054), (339, 29036),

Gene: NoShow_51 Start: 35399, Stop: 34308, Start Num: 77

Candidate Starts for NoShow_51:

(75, 35402), (Start: 77 @35399 has 1 MA's), (140, 35174), (147, 35150), (161, 35105), (166, 35084), (169, 35075), (171, 35063), (188, 34997), (189, 34991), (197, 34961), (202, 34937), (204, 34931), (209, 34904), (213, 34871), (228, 34802), (251, 34712), (261, 34691), (278, 34667), (292, 34634), (313, 34544), (351, 34376), (353, 34364), (358, 34343),

Gene: Nodigi_49 Start: 32513, Stop: 31491, Start Num: 101

Candidate Starts for Nodigi_49:

(84, 32543), (90, 32528), (Start: 101 @32513 has 3 MA's), (129, 32396), (134, 32369), (147, 32339), (155, 32315), (171, 32252), (185, 32195), (202, 32126), (204, 32120), (206, 32102), (211, 32069), (220, 32015), (228, 31991), (237, 31964), (251, 31898), (252, 31895), (279, 31850), (288, 31835), (294, 31814), (302, 31787), (305, 31769), (316, 31721), (351, 31556),

Gene: NorManre_69 Start: 44890, Stop: 46107, Start Num: 63

Candidate Starts for NorManre_69:

(Start: 63 @44890 has 31 MA's), (73, 44905), (121, 45034), (139, 45124), (140, 45127), (151, 45163), (160, 45196), (195, 45310), (203, 45337), (209, 45376), (210, 45391), (216, 45421), (220, 45451), (226, 45481), (237, 45529), (309, 45820), (323, 45874), (326, 45883), (330, 45892), (337, 45916), (352, 46009), (372, 46099),

Gene: NosilaM_69 Start: 53310, Stop: 52105, Start Num: 65

Candidate Starts for NosilaM_69:

(Start: 65 @53310 has 47 MA's), (136, 53091), (143, 53067), (152, 53028), (153, 53025), (160, 52998), (223, 52710), (237, 52644), (256, 52533), (274, 52485), (301, 52404), (309, 52362), (323, 52308), (326, 52299), (330, 52290), (350, 52182),

Gene: Nova_56 Start: 43563, Stop: 44741, Start Num: 60

Candidate Starts for Nova_56:

(5, 43281), (7, 43311), (35, 43497), (Start: 60 @43563 has 46 MA's), (Start: 82 @43611 has 3 MA's), (104, 43650), (108, 43662), (130, 43761), (146, 43824), (160, 43878), (171, 43926), (195, 43992), (217, 44106), (220, 44133), (226, 44163), (236, 44208), (306, 44442), (323, 44508), (326, 44517), (330, 44526), (356, 44652), (372, 44733),

Gene: NovaSharks_67 Start: 42658, Stop: 43875, Start Num: 63

Candidate Starts for NovaSharks_67:

(Start: 63 @42658 has 31 MA's), (73, 42673), (121, 42802), (139, 42892), (140, 42895), (151, 42931), (160, 42964), (195, 43078), (203, 43105), (209, 43144), (210, 43159), (216, 43189), (220, 43219), (226, 43249), (237, 43297), (281, 43486), (323, 43642), (326, 43651), (330, 43660), (337, 43684), (346, 43738), (352, 43777), (372, 43867),

Gene: NovumRegina_66 Start: 52690, Stop: 51491, Start Num: 60

Candidate Starts for NovumRegina_66:

(Start: 60 @52690 has 46 MA's), (152, 52402), (153, 52399), (159, 52378), (160, 52372), (220, 52099), (223, 52087), (226, 52069), (234, 52036), (237, 52021), (253, 51934), (281, 51847), (286, 51832), (296, 51802), (297, 51799), (309, 51745), (324, 51688), (325, 51685), (326, 51682), (330, 51673), (350, 51565), (357, 51541),

Gene: Nucci_35 Start: 26518, Stop: 25340, Start Num: 61

Candidate Starts for Nucci_35:

(Start: 61 @26518 has 32 MA's), (108, 26419), (113, 26404), (Start: 116 @26389 has 1 MA's), (188, 26110), (190, 26098), (193, 26086), (197, 26071), (206, 26020), (248, 25792), (253, 25762), (272, 25732), (274, 25729), (294, 25669), (299, 25654), (310, 25603), (336, 25510), (347, 25441),

Gene: Oaker_67 Start: 50680, Stop: 52002, Start Num: 50

Candidate Starts for Oaker_67:

(34, 50641), (Start: 44 @50665 has 3 MA's), (Start: 50 @50680 has 8 MA's), (105, 50794), (108, 50803), (111, 50812), (120, 50854), (159, 51028), (160, 51034), (171, 51085), (198, 51232), (202, 51250), (203, 51253), (205, 51268), (209, 51289), (231, 51421), (233, 51427), (290, 51610), (297, 51628), (309, 51682), (325, 51742), (337, 51778), (353, 51874),

Gene: Oats_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for Oats_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (Start: 116 @26642 has 1 MA's), (177, 26405), (193, 26348), (197, 26333), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: OldNelly_38 Start: 27084, Stop: 25909, Start Num: 55

Candidate Starts for OldNelly_38:

(21, 27204), (27, 27153), (Start: 52 @27093 has 13 MA's), (Start: 55 @27084 has 127 MA's), (113, 26961), (Start: 116 @26946 has 1 MA's), (177, 26709), (193, 26652), (248, 26358), (253, 26328), (272, 26298), (274, 26295), (305, 26190), (309, 26172), (312, 26160), (321, 26127), (336, 26076), (341, 26043),

Gene: Onyinye_74 Start: 50783, Stop: 52000, Start Num: 60

Candidate Starts for Onyinye_74:

(Start: 60 @50783 has 46 MA's), (Start: 74 @50810 has 1 MA's), (97, 50864), (111, 50909), (125, 50975), (127, 50987), (141, 51047), (148, 51077), (149, 51080), (158, 51107), (163, 51134), (197,

51263), (214, 51383), (216, 51389), (233, 51479), (241, 51521), (245, 51539), (249, 51557), (283, 51620), (306, 51704), (326, 51779), (329, 51785), (330, 51788), (344, 51857), (346, 51866), (354, 51911), (366, 51968),

Gene: Orla_49 Start: 32486, Stop: 31464, Start Num: 101

Candidate Starts for Orla_49:

(Start: 44 @32618 has 3 MA's), (78, 32534), (84, 32522), (Start: 101 @32486 has 3 MA's), (134, 32342), (147, 32312), (155, 32288), (171, 32225), (185, 32168), (202, 32099), (211, 32042), (220, 31988), (237, 31937), (252, 31868), (279, 31823), (288, 31808), (294, 31787), (302, 31760), (303, 31757), (305, 31742), (316, 31694), (351, 31529),

Gene: OtterstedtS21_65 Start: 43824, Stop: 45041, Start Num: 63

Candidate Starts for OtterstedtS21_65:

(Start: 63 @43824 has 31 MA's), (73, 43839), (121, 43968), (139, 44058), (140, 44061), (151, 44097), (160, 44130), (195, 44244), (203, 44271), (209, 44310), (210, 44325), (216, 44355), (220, 44385), (226, 44415), (237, 44463), (309, 44754), (323, 44808), (326, 44817), (330, 44826), (337, 44850), (352, 44943), (372, 45033),

Gene: Outis_67 Start: 53139, Stop: 51931, Start Num: 65

Candidate Starts for Outis_67:

(Start: 65 @53139 has 47 MA's), (73, 53121), (136, 52917), (143, 52893), (152, 52854), (153, 52851), (160, 52824), (178, 52749), (203, 52662), (223, 52536), (237, 52470), (256, 52359), (274, 52311), (297, 52242), (309, 52188), (323, 52134), (326, 52125), (330, 52116), (350, 52008), (352, 51996),

Gene: OverHedge_43 Start: 28810, Stop: 29964, Start Num: 65

Candidate Starts for OverHedge_43:

(1, 28411), (Start: 65 @28810 has 47 MA's), (Start: 74 @28831 has 1 MA's), (140, 29041), (160, 29104), (183, 29200), (209, 29305), (236, 29455), (253, 29545), (266, 29581), (281, 29611), (309, 29716), (324, 29773), (344, 29857), (353, 29914),

Gene: Oxtober96_38 Start: 27083, Stop: 25908, Start Num: 55

Candidate Starts for Oxtober96_38:

(21, 27203), (27, 27152), (Start: 52 @27092 has 13 MA's), (Start: 55 @27083 has 127 MA's), (113, 26960), (132, 26858), (177, 26708), (193, 26651), (248, 26357), (253, 26327), (272, 26297), (274, 26294), (305, 26189), (309, 26171), (312, 26159), (321, 26126), (336, 26075), (341, 26042),

Gene: P1201_73 Start: 54596, Stop: 53460, Start Num: 62

Candidate Starts for P1201_73:

(62, 54596), (146, 54338), (160, 54287), (161, 54284), (191, 54173), (237, 53918), (297, 53753), (326, 53636), (351, 53519),

Gene: PBI1_54 Start: 43038, Stop: 44216, Start Num: 60

Candidate Starts for PBI1_54:

(5, 42756), (7, 42786), (15, 42849), (Start: 60 @43038 has 46 MA's), (Start: 82 @43086 has 3 MA's), (104, 43125), (108, 43137), (130, 43236), (146, 43299), (160, 43353), (171, 43401), (195, 43467), (217, 43581), (220, 43608), (226, 43638), (236, 43683), (306, 43917), (323, 43983), (326, 43992), (330, 44001), (356, 44127), (372, 44208),

Gene: PHTowN_66 Start: 47159, Stop: 46161, Start Num: 67

Candidate Starts for PHTowN_66:

(45, 47210), (Start: 67 @47159 has 7 MA's), (73, 47147), (160, 46868), (161, 46865), (196, 46736), (203, 46709), (209, 46673), (220, 46598), (223, 46586), (236, 46523), (316, 46382), (326, 46349), (330, 46340), (344, 46268), (345, 46262), (361, 46178),

Gene: PLOT_57 Start: 43090, Stop: 44268, Start Num: 60

Candidate Starts for PLOT_57:

(5, 42808), (15, 42901), (Start: 60 @43090 has 46 MA's), (Start: 82 @43138 has 3 MA's), (104, 43177), (108, 43189), (130, 43288), (146, 43351), (160, 43405), (171, 43453), (195, 43519), (217, 43633), (220, 43660), (226, 43690), (236, 43735), (306, 43969), (323, 44035), (326, 44044), (330, 44053), (356, 44179), (372, 44260),

Gene: Pajaza_34 Start: 25918, Stop: 24758, Start Num: 55

Candidate Starts for Pajaza_34:

(27, 25987), (42, 25954), (Start: 55 @25918 has 127 MA's), (94, 25843), (113, 25798), (135, 25684), (163, 25597), (193, 25489), (206, 25423), (272, 25150), (309, 25024), (327, 24961), (336, 24928), (341, 24895), (347, 24859),

Gene: Papafritta_37 Start: 26788, Stop: 25613, Start Num: 55

Candidate Starts for Papafritta_37:

(21, 26908), (27, 26857), (Start: 52 @26797 has 13 MA's), (Start: 55 @26788 has 127 MA's), (113, 26665), (Start: 116 @26650 has 1 MA's), (132, 26563), (177, 26413), (193, 26356), (197, 26341), (248, 26062), (253, 26032), (272, 26002), (274, 25999), (305, 25894), (309, 25876), (312, 25864), (321, 25831), (336, 25780), (341, 25747),

Gene: Papyrus_69 Start: 51328, Stop: 52497, Start Num: 66

Candidate Starts for Papyrus_69:

(Start: 66 @51328 has 10 MA's), (73, 51343), (91, 51385), (108, 51418), (157, 51619), (160, 51634), (197, 51766), (209, 51829), (210, 51844), (226, 51934), (232, 51961), (293, 52162), (295, 52168), (297, 52174), (324, 52285), (326, 52291), (353, 52423), (367, 52483),

Gene: ParleG_38 Start: 27085, Stop: 25910, Start Num: 55

Candidate Starts for ParleG_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (Start: 116 @26947 has 1 MA's), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: ParvusTarda_64 Start: 43199, Stop: 44413, Start Num: 63

Candidate Starts for ParvusTarda_64:

(Start: 63 @43199 has 31 MA's), (73, 43214), (121, 43343), (Start: 138 @43427 has 1 MA's), (153, 43478), (160, 43505), (195, 43619), (203, 43646), (210, 43697), (213, 43712), (216, 43727), (220, 43757), (237, 43835), (281, 44024), (311, 44132), (323, 44180), (326, 44189), (330, 44198), (337, 44222), (352, 44315), (372, 44405),

Gene: Patience_81 Start: 53552, Stop: 54784, Start Num: 56

Candidate Starts for Patience_81:

(Start: 56 @53552 has 3 MA's), (87, 53606), (107, 53645), (108, 53648), (111, 53657), (118, 53690), (123, 53714), (158, 53879), (160, 53891), (180, 53972), (199, 54056), (204, 54077), (209, 54119), (233, 54257), (243, 54308), (252, 54359), (281, 54395), (297, 54443), (309, 54497), (326, 54560), (360, 54728), (370, 54770),

Gene: Patio_68 Start: 53007, Stop: 51817, Start Num: 58

Candidate Starts for Patio_68:

(Start: 54 @53016 has 2 MA's), (Start: 58 @53007 has 3 MA's), (130, 52809), (151, 52716), (152, 52713), (153, 52710), (160, 52683), (164, 52665), (178, 52608), (223, 52413), (224, 52410), (226, 52395), (237, 52347), (259, 52233), (264, 52221), (281, 52173), (297, 52125), (309, 52071), (326,

52008), (330, 51999), (352, 51879),

Gene: Patos_69 Start: 44889, Stop: 46106, Start Num: 63

Candidate Starts for Patos_69:

(Start: 63 @44889 has 31 MA's), (73, 44904), (121, 45033), (139, 45123), (140, 45126), (151, 45162), (160, 45195), (195, 45309), (203, 45336), (209, 45375), (210, 45390), (216, 45420), (220, 45450), (226, 45480), (237, 45528), (309, 45819), (323, 45873), (326, 45882), (330, 45891), (337, 45915), (352, 46008), (372, 46098),

Gene: Peep_38 Start: 27070, Stop: 25895, Start Num: 55

Candidate Starts for Peep_38:

(21, 27190), (27, 27139), (Start: 52 @27079 has 13 MA's), (Start: 55 @27070 has 127 MA's), (113, 26947), (Start: 116 @26932 has 1 MA's), (177, 26695), (193, 26638), (197, 26623), (248, 26344), (253, 26314), (272, 26284), (274, 26281), (305, 26176), (309, 26158), (312, 26146), (321, 26113), (336, 26062), (341, 26029),

Gene: Penelope2018_57 Start: 43108, Stop: 44286, Start Num: 60

Candidate Starts for Penelope2018_57:

(5, 42826), (15, 42919), (Start: 60 @43108 has 46 MA's), (Start: 82 @43156 has 3 MA's), (104, 43195), (108, 43207), (130, 43306), (146, 43369), (160, 43423), (171, 43471), (195, 43537), (217, 43651), (220, 43678), (226, 43708), (236, 43753), (306, 43987), (323, 44053), (326, 44062), (330, 44071), (356, 44197), (372, 44278),

Gene: Peppino_37 Start: 27195, Stop: 26017, Start Num: 55

Candidate Starts for Peppino_37:

(26, 27267), (Start: 52 @27204 has 13 MA's), (Start: 55 @27195 has 127 MA's), (113, 27069), (114, 27066), (172, 26835), (193, 26760), (197, 26745), (248, 26466), (253, 26436), (272, 26406), (274, 26403), (309, 26280), (336, 26184), (341, 26151),

Gene: PeteyPab_68 Start: 50318, Stop: 49200, Start Num: 69

Candidate Starts for PeteyPab_68:

(Start: 69 @50318 has 10 MA's), (120, 50183), (131, 50132), (146, 50069), (160, 50018), (170, 49976), (178, 49943), (183, 49922), (199, 49880), (201, 49871), (203, 49862), (209, 49826), (216, 49772), (250, 49589), (320, 49400), (326, 49379), (336, 49349), (348, 49277), (351, 49262), (352, 49253),

Gene: Phanita_36 Start: 26789, Stop: 25626, Start Num: 61

Candidate Starts for Phanita_36:

(40, 26825), (Start: 44 @26816 has 3 MA's), (Start: 61 @26789 has 32 MA's), (113, 26678), (122, 26630), (172, 26444), (182, 26411), (188, 26393), (193, 26369), (197, 26354), (206, 26303), (221, 26213), (248, 26075), (253, 26045), (272, 26015), (274, 26012), (282, 25988), (310, 25886), (336, 25793), (341, 25760), (345, 25736), (347, 25724),

Gene: Pharpay_43 Start: 28865, Stop: 30019, Start Num: 65

Candidate Starts for Pharpay_43:

(1, 28466), (Start: 65 @28865 has 47 MA's), (Start: 74 @28886 has 1 MA's), (107, 28955), (140, 29096), (160, 29159), (183, 29255), (209, 29360), (236, 29510), (253, 29600), (266, 29636), (281, 29666), (309, 29771), (324, 29828), (344, 29912), (353, 29969),

Gene: Pherbot_36 Start: 26652, Stop: 25489, Start Num: 52

Candidate Starts for Pherbot_36:

(27, 26712), (Start: 52 @26652 has 13 MA's), (Start: 100 @26562 has 2 MA's), (113, 26526), (114, 26523), (172, 26292), (193, 26217), (197, 26202), (203, 26175), (236, 25995), (246, 25950), (294, 25815), (299, 25800), (341, 25623), (347, 25587), (355, 25548),

Gene: Pherferi_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Pherferi_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Phiderman_38 Start: 27075, Stop: 25900, Start Num: 55

Candidate Starts for Phiderman_38:

(21, 27195), (27, 27144), (Start: 52 @27084 has 13 MA's), (Start: 55 @27075 has 127 MA's), (113, 26952), (Start: 116 @26937 has 1 MA's), (177, 26700), (193, 26643), (197, 26628), (248, 26349), (253, 26319), (272, 26289), (274, 26286), (305, 26181), (309, 26163), (312, 26151), (321, 26118), (336, 26067), (341, 26034),

Gene: Phireproof_38 Start: 27084, Stop: 25909, Start Num: 55

Candidate Starts for Phireproof_38:

(21, 27204), (27, 27153), (Start: 52 @27093 has 13 MA's), (Start: 55 @27084 has 127 MA's), (113, 26961), (132, 26859), (177, 26709), (193, 26652), (248, 26358), (253, 26328), (272, 26298), (274, 26295), (305, 26190), (309, 26172), (312, 26160), (321, 26127), (336, 26076), (341, 26043),

Gene: Phomeo_67 Start: 53314, Stop: 52115, Start Num: 60

Candidate Starts for Phomeo_67:

(Start: 60 @53314 has 46 MA's), (152, 53026), (153, 53023), (159, 53002), (160, 52996), (220, 52723), (223, 52711), (226, 52693), (234, 52660), (237, 52645), (253, 52558), (281, 52471), (286, 52456), (296, 52426), (297, 52423), (309, 52369), (324, 52312), (325, 52309), (326, 52306), (330, 52297), (350, 52189), (357, 52165),

Gene: PhredFlintston_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for PhredFlintston_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Phreeze_66 Start: 49680, Stop: 50969, Start Num: 50

Candidate Starts for Phreeze_66:

(34, 49641), (Start: 44 @49665 has 3 MA's), (Start: 50 @49680 has 8 MA's), (105, 49794), (108, 49803), (111, 49812), (120, 49854), (159, 50028), (160, 50034), (171, 50085), (198, 50199), (202, 50217), (203, 50220), (205, 50235), (209, 50256), (231, 50388), (233, 50394), (274, 50532), (290, 50577), (297, 50595), (309, 50649), (325, 50709), (337, 50745), (353, 50841),

Gene: Phriends_38 Start: 27084, Stop: 25909, Start Num: 55

Candidate Starts for Phriends_38:

(21, 27204), (27, 27153), (Start: 52 @27093 has 13 MA's), (Start: 55 @27084 has 127 MA's), (113, 26961), (Start: 116 @26946 has 1 MA's), (177, 26709), (193, 26652), (248, 26358), (253, 26328), (272, 26298), (274, 26295), (305, 26190), (309, 26172), (312, 26160), (321, 26127), (336, 26076), (341, 26043),

Gene: PhunaPhoke_43 Start: 28838, Stop: 29992, Start Num: 65

Candidate Starts for PhunaPhoke_43:

(1, 28439), (Start: 65 @28838 has 47 MA's), (Start: 74 @28859 has 1 MA's), (140, 29069), (160, 29132), (183, 29228), (209, 29333), (236, 29483), (253, 29573), (266, 29609), (281, 29639), (309,

29744), (324, 29801), (344, 29885), (353, 29942),

Gene: Pikmin_34 Start: 25918, Stop: 24758, Start Num: 55

Candidate Starts for Pikmin_34:

(27, 25987), (42, 25954), (Start: 55 @25918 has 127 MA's), (94, 25843), (113, 25798), (135, 25684), (163, 25597), (193, 25489), (206, 25423), (272, 25150), (309, 25024), (327, 24961), (336, 24928), (341, 24895), (347, 24859),

Gene: Pleakley_75 Start: 52499, Stop: 51309, Start Num: 58

Candidate Starts for Pleakley_75:

(2, 52829), (9, 52727), (Start: 58 @52499 has 3 MA's), (73, 52472), (114, 52379), (140, 52256), (143, 52244), (153, 52202), (160, 52175), (161, 52172), (237, 51842), (253, 51755), (281, 51662), (297, 51614), (326, 51497), (336, 51467), (345, 51410), (350, 51380), (357, 51356),

Gene: Pocket_37 Start: 26771, Stop: 25596, Start Num: 55

Candidate Starts for Pocket_37:

(21, 26891), (27, 26840), (Start: 52 @26780 has 13 MA's), (Start: 55 @26771 has 127 MA's), (113, 26648), (119, 26615), (177, 26396), (193, 26339), (248, 26045), (253, 26015), (272, 25985), (274, 25982), (305, 25877), (309, 25859), (312, 25847), (321, 25814), (336, 25763), (341, 25730),

Gene: Polyuki_67 Start: 50081, Stop: 48915, Start Num: 60

Candidate Starts for Polyuki_67:

(18, 50219), (41, 50111), (Start: 60 @50081 has 46 MA's), (131, 49883), (160, 49760), (178, 49685), (203, 49622), (206, 49595), (222, 49502), (225, 49487), (229, 49463), (236, 49436), (237, 49433), (297, 49223), (307, 49175), (326, 49106), (329, 49100), (353, 48974),

Gene: Pons_44 Start: 31610, Stop: 30552, Start Num: 96

Candidate Starts for Pons_44:

(86, 31634), (Start: 96 @31610 has 17 MA's), (129, 31484), (140, 31433), (147, 31409), (150, 31400), (160, 31367), (171, 31322), (197, 31220), (211, 31139), (228, 31061), (236, 31037), (240, 31013), (244, 31001), (278, 30920), (293, 30884), (303, 30851), (304, 30845), (305, 30836), (308, 30821), (313, 30800), (317, 30785), (345, 30656), (347, 30644), (348, 30638), (351, 30623),

Gene: PotPie_43 Start: 32541, Stop: 31483, Start Num: 96

Candidate Starts for PotPie_43:

(Start: 96 @32541 has 17 MA's), (129, 32415), (134, 32388), (140, 32364), (147, 32340), (150, 32331), (160, 32298), (171, 32253), (197, 32151), (211, 32070), (228, 31992), (240, 31944), (244, 31932), (278, 31851), (303, 31782), (304, 31776), (305, 31767), (308, 31752), (313, 31731), (317, 31716), (339, 31629), (345, 31587), (347, 31575), (348, 31569), (351, 31554),

Gene: PotatoChip_69 Start: 50320, Stop: 49202, Start Num: 69

Candidate Starts for PotatoChip_69:

(Start: 69 @50320 has 10 MA's), (120, 50185), (131, 50134), (146, 50071), (160, 50020), (170, 49978), (178, 49945), (183, 49924), (199, 49882), (201, 49873), (203, 49864), (209, 49828), (216, 49774), (250, 49591), (320, 49402), (326, 49381), (336, 49351), (348, 49279), (351, 49264), (352, 49255),

Gene: Potty_43 Start: 28843, Stop: 29997, Start Num: 65

Candidate Starts for Potty_43:

(1, 28444), (Start: 65 @28843 has 47 MA's), (Start: 74 @28864 has 1 MA's), (140, 29074), (160, 29137), (183, 29233), (209, 29338), (236, 29488), (253, 29578), (266, 29614), (281, 29644), (309, 29749), (324, 29806), (344, 29890), (353, 29947),

Gene: Poultruss_42 Start: 29185, Stop: 30312, Start Num: 65

Candidate Starts for Poultruss_42:

(Start: 65 @29185 has 47 MA's), (Start: 74 @29206 has 1 MA's), (140, 29416), (160, 29479), (183, 29575), (209, 29680), (236, 29830), (293, 29998), (309, 30064), (324, 30121), (344, 30205), (353, 30262),

Gene: Prager_57 Start: 43127, Stop: 44305, Start Num: 60

Candidate Starts for Prager_57:

(5, 42845), (7, 42875), (15, 42938), (Start: 60 @43127 has 46 MA's), (Start: 82 @43175 has 3 MA's), (104, 43214), (108, 43226), (130, 43325), (146, 43388), (160, 43442), (171, 43490), (195, 43556), (217, 43670), (220, 43697), (226, 43727), (236, 43772), (306, 44006), (323, 44072), (326, 44081), (330, 44090), (356, 44216), (372, 44297),

Gene: Predator_68 Start: 49458, Stop: 50774, Start Num: 44

Candidate Starts for Predator_68:

(24, 49386), (31, 49425), (34, 49434), (Start: 44 @49458 has 3 MA's), (Start: 50 @49473 has 8 MA's), (105, 49578), (107, 49584), (111, 49596), (128, 49686), (160, 49818), (163, 49833), (171, 49869), (187, 49932), (191, 49971), (193, 49980), (202, 50022), (206, 50052), (209, 50061), (215, 50106), (227, 50172), (233, 50199), (236, 50214), (247, 50274), (274, 50337), (290, 50382), (305, 50436), (309, 50454), (325, 50514), (337, 50550), (349, 50625), (353, 50646), (356, 50652), (362, 50691), (371, 50727), (373, 50739),

Gene: PrincePhergus_36 Start: 26667, Stop: 25504, Start Num: 52

Candidate Starts for PrincePhergus_36:

(27, 26727), (Start: 52 @26667 has 13 MA's), (Start: 100 @26577 has 2 MA's), (113, 26541), (114, 26538), (172, 26307), (190, 26244), (193, 26232), (197, 26217), (203, 26190), (236, 26010), (294, 25830), (299, 25815), (341, 25638), (347, 25602), (355, 25563),

Gene: PsychoKiller_40 Start: 29791, Stop: 28760, Start Num: 103

Candidate Starts for PsychoKiller_40:

(Start: 103 @29791 has 22 MA's), (147, 29620), (171, 29533), (185, 29476), (202, 29407), (209, 29374), (220, 29296), (237, 29245), (305, 29050), (309, 29032), (313, 29014), (335, 28930), (339, 28912),

Gene: Puissant_69 Start: 49917, Stop: 51227, Start Num: 51

Candidate Starts for Puissant_69:

(14, 49746), (31, 49866), (34, 49875), (Start: 44 @49899 has 3 MA's), (51, 49917), (105, 50019), (111, 50037), (159, 50253), (160, 50259), (167, 50289), (171, 50310), (198, 50457), (202, 50475), (203, 50478), (205, 50493), (206, 50505), (209, 50514), (231, 50646), (233, 50652), (247, 50727), (262, 50778), (290, 50835), (325, 50967), (337, 51003), (349, 51078),

Gene: PuppyEggo_38 Start: 27085, Stop: 25910, Start Num: 55

Candidate Starts for PuppyEggo_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (Start: 116 @26947 has 1 MA's), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: QuadZero_35 Start: 25001, Stop: 23823, Start Num: 61

Candidate Starts for QuadZero_35:

(29, 25073), (37, 25058), (Start: 61 @25001 has 32 MA's), (113, 24887), (193, 24569), (197, 24554), (206, 24503), (239, 24311), (248, 24275), (272, 24215), (274, 24212), (299, 24137), (301, 24131), (310, 24086), (339, 23981), (347, 23924),

Gene: Quartz_36 Start: 26636, Stop: 25458, Start Num: 61

Candidate Starts for Quartz_36:

(Start: 61 @26636 has 32 MA's), (108, 26537), (113, 26522), (Start: 116 @26507 has 1 MA's), (188, 26228), (190, 26216), (193, 26204), (197, 26189), (206, 26138), (248, 25910), (253, 25880), (272, 25850), (274, 25847), (294, 25787), (299, 25772), (310, 25721), (336, 25628), (347, 25559),

Gene: Quasar_41 Start: 30339, Stop: 29308, Start Num: 103

Candidate Starts for Quasar_41:

(Start: 103 @30339 has 22 MA's), (147, 30168), (171, 30081), (185, 30024), (202, 29955), (209, 29922), (220, 29844), (237, 29793), (305, 29598), (309, 29580), (313, 29562), (335, 29478), (339, 29460),

Gene: Raccoon_37 Start: 27170, Stop: 25992, Start Num: 55

Candidate Starts for Raccoon_37:

(26, 27242), (Start: 52 @27179 has 13 MA's), (Start: 55 @27170 has 127 MA's), (113, 27044), (114, 27041), (172, 26810), (193, 26735), (197, 26720), (248, 26441), (253, 26411), (272, 26381), (274, 26378), (309, 26255), (336, 26159), (341, 26126),

Gene: Rachella_43 Start: 28867, Stop: 30000, Start Num: 74

Candidate Starts for Rachella_43:

(1, 28447), (Start: 65 @28846 has 47 MA's), (Start: 74 @28867 has 1 MA's), (107, 28936), (140, 29077), (160, 29140), (183, 29236), (209, 29341), (236, 29491), (253, 29581), (266, 29617), (281, 29647), (309, 29752), (324, 29809), (344, 29893), (353, 29950),

Gene: Ranch_65 Start: 42668, Stop: 43885, Start Num: 63

Candidate Starts for Ranch_65:

(Start: 63 @42668 has 31 MA's), (73, 42683), (121, 42812), (139, 42902), (140, 42905), (151, 42941), (160, 42974), (195, 43088), (203, 43115), (209, 43154), (210, 43169), (216, 43199), (220, 43229), (226, 43259), (235, 43301), (309, 43598), (323, 43652), (326, 43661), (330, 43670), (337, 43694), (352, 43787), (372, 43877),

Gene: RanchParmCat_47 Start: 31601, Stop: 30597, Start Num: 109

Candidate Starts for RanchParmCat_47:

(Start: 99 @31622 has 1 MA's), (108, 31604), (Start: 109 @31601 has 1 MA's), (134, 31475), (147, 31445), (171, 31358), (185, 31301), (202, 31232), (204, 31226), (211, 31175), (220, 31121), (228, 31097), (237, 31070), (252, 31001), (279, 30956), (288, 30941), (302, 30893), (303, 30890), (305, 30875), (316, 30827), (322, 30809), (351, 30662),

Gene: Rapheph_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Rapheph_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: Raptor_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for Raptor_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (119, 26926), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: RazorC_65 Start: 42812, Stop: 44029, Start Num: 63

Candidate Starts for RazorC_65:

(Start: 63 @42812 has 31 MA's), (73, 42827), (121, 42956), (139, 43046), (140, 43049), (151, 43085), (160, 43118), (195, 43232), (203, 43259), (209, 43298), (210, 43313), (216, 43343), (220, 43373), (226, 43403), (237, 43451), (281, 43640), (323, 43796), (326, 43805), (330, 43814), (337, 43838), (346, 43892), (352, 43931), (372, 44021),

Gene: RedBaron_43 Start: 30028, Stop: 28997, Start Num: 103

Candidate Starts for RedBaron_43:

(Start: 103 @30028 has 22 MA's), (134, 29887), (171, 29770), (185, 29713), (202, 29644), (209, 29611), (220, 29533), (237, 29482), (305, 29287), (309, 29269), (313, 29251), (335, 29167), (339, 29149),

Gene: RedRaider_73 Start: 55335, Stop: 54136, Start Num: 54

Candidate Starts for RedRaider_73:

(Start: 54 @55335 has 2 MA's), (Start: 58 @55326 has 3 MA's), (73, 55299), (130, 55128), (151, 55035), (152, 55032), (153, 55029), (160, 55002), (164, 54984), (178, 54927), (223, 54732), (226, 54714), (237, 54666), (242, 54639), (264, 54540), (281, 54492), (297, 54444), (309, 54390), (326, 54327), (330, 54318), (352, 54198),

Gene: Redfield_37 Start: 27202, Stop: 26024, Start Num: 55

Candidate Starts for Redfield_37:

(26, 27274), (Start: 52 @27211 has 13 MA's), (Start: 55 @27202 has 127 MA's), (113, 27076), (114, 27073), (172, 26842), (193, 26767), (248, 26473), (253, 26443), (272, 26413), (274, 26410), (309, 26287), (336, 26191), (341, 26158),

Gene: RenegadeRaider_37 Start: 26510, Stop: 25371, Start Num: 66

Candidate Starts for RenegadeRaider_37:

(Start: 66 @26510 has 10 MA's), (Start: 100 @26444 has 2 MA's), (113, 26408), (114, 26405), (172, 26174), (190, 26111), (193, 26099), (197, 26084), (203, 26057), (236, 25877), (294, 25697), (299, 25682), (341, 25505), (347, 25469), (355, 25430),

Gene: Renzie_38 Start: 27070, Stop: 25895, Start Num: 55

Candidate Starts for Renzie_38:

(21, 27190), (27, 27139), (Start: 52 @27079 has 13 MA's), (Start: 55 @27070 has 127 MA's), (113, 26947), (Start: 116 @26932 has 1 MA's), (177, 26695), (193, 26638), (197, 26623), (248, 26344), (253, 26314), (272, 26284), (274, 26281), (305, 26176), (309, 26158), (312, 26146), (321, 26113), (336, 26062), (341, 26029),

Gene: Rie18_43 Start: 28391, Stop: 29497, Start Num: 65

Candidate Starts for Rie18_43:

(Start: 65 @28391 has 47 MA's), (Start: 74 @28412 has 1 MA's), (140, 28622), (160, 28685), (183, 28781), (209, 28886), (236, 29036), (309, 29249), (344, 29390), (353, 29447),

Gene: RikSengupta_46 Start: 29769, Stop: 30920, Start Num: 39

Candidate Starts for RikSengupta_46:

(Start: 39 @29769 has 1 MA's), (Start: 68 @29823 has 3 MA's), (71, 29826), (Start: 74 @29832 has 1 MA's), (140, 30042), (142, 30048), (158, 30093), (160, 30105), (176, 30168), (183, 30201), (209, 30306), (238, 30468), (293, 30603), (301, 30627), (346, 30819), (353, 30867),

Gene: Riparian_71 Start: 51165, Stop: 52334, Start Num: 66

Candidate Starts for Riparian_71:

(Start: 66 @51165 has 10 MA's), (73, 51180), (91, 51222), (108, 51255), (157, 51456), (160, 51471), (197, 51603), (209, 51666), (210, 51681), (226, 51771), (232, 51798), (293, 51999), (295, 52005), (297, 52011), (324, 52122), (326, 52128), (353, 52260), (367, 52320),

Gene: Riyhil_38 Start: 27088, Stop: 25913, Start Num: 55

Candidate Starts for Riyhil_38:

(21, 27208), (27, 27157), (Start: 52 @27097 has 13 MA's), (Start: 55 @27088 has 127 MA's), (113, 26965), (Start: 116 @26950 has 1 MA's), (132, 26863), (177, 26713), (193, 26656), (248, 26362), (253, 26332), (272, 26302), (274, 26299), (305, 26194), (309, 26176), (312, 26164), (321, 26131), (336, 26080), (341, 26047),

Gene: Robinson_38 Start: 27076, Stop: 25901, Start Num: 55

Candidate Starts for Robinson_38:

(21, 27196), (27, 27145), (Start: 52 @27085 has 13 MA's), (Start: 55 @27076 has 127 MA's), (113, 26953), (Start: 116 @26938 has 1 MA's), (177, 26701), (193, 26644), (197, 26629), (248, 26350), (253, 26320), (272, 26290), (274, 26287), (305, 26182), (309, 26164), (312, 26152), (321, 26119), (336, 26068), (341, 26035),

Gene: Rog141_37 Start: 26767, Stop: 25592, Start Num: 55

Candidate Starts for Rog141_37:

(21, 26887), (27, 26836), (Start: 52 @26776 has 13 MA's), (Start: 55 @26767 has 127 MA's), (113, 26644), (Start: 116 @26629 has 1 MA's), (132, 26542), (177, 26392), (193, 26335), (197, 26320), (248, 26041), (253, 26011), (272, 25981), (274, 25978), (305, 25873), (309, 25855), (312, 25843), (321, 25810), (336, 25759), (341, 25726),

Gene: Rooney_66 Start: 47314, Stop: 46316, Start Num: 67

Candidate Starts for Rooney_66:

(Start: 67 @47314 has 7 MA's), (73, 47302), (160, 47023), (161, 47020), (196, 46891), (203, 46864), (209, 46828), (220, 46753), (223, 46741), (236, 46678), (306, 46579), (316, 46537), (326, 46504), (330, 46495), (344, 46423), (345, 46417), (361, 46333),

Gene: Rope_69 Start: 51321, Stop: 52490, Start Num: 66

Candidate Starts for Rope_69:

(Start: 66 @51321 has 10 MA's), (73, 51336), (91, 51378), (108, 51411), (157, 51612), (160, 51627), (197, 51759), (209, 51822), (210, 51837), (226, 51927), (232, 51954), (293, 52155), (295, 52161), (297, 52167), (324, 52278), (326, 52284), (353, 52416), (367, 52476),

Gene: Rumi_66 Start: 42355, Stop: 43572, Start Num: 63

Candidate Starts for Rumi_66:

(Start: 63 @42355 has 31 MA's), (73, 42370), (121, 42499), (139, 42589), (140, 42592), (151, 42628), (160, 42661), (195, 42775), (203, 42802), (209, 42841), (210, 42856), (216, 42886), (220, 42916), (226, 42946), (237, 42994), (281, 43183), (323, 43339), (326, 43348), (330, 43357), (337, 43381), (346, 43435), (352, 43474), (372, 43564),

Gene: SJay_38 Start: 27079, Stop: 25904, Start Num: 55

Candidate Starts for SJay_38:

(21, 27199), (27, 27148), (Start: 52 @27088 has 13 MA's), (Start: 55 @27079 has 127 MA's), (113, 26956), (119, 26923), (177, 26704), (193, 26647), (248, 26353), (253, 26323), (272, 26293), (274, 26290), (305, 26185), (309, 26167), (312, 26155), (321, 26122), (336, 26071), (341, 26038),

Gene: Sadboi_66 Start: 44538, Stop: 45701, Start Num: 63

Candidate Starts for Sadboi_66:

(Start: 63 @44538 has 31 MA's), (73, 44553), (121, 44682), (139, 44772), (140, 44775), (151, 44811), (160, 44844), (195, 44958), (203, 44985), (209, 45024), (210, 45039), (216, 45069), (220, 45099), (226, 45129), (237, 45177), (250, 45252), (265, 45273), (281, 45312), (309, 45414), (323, 45468), (326, 45477), (330, 45486), (337, 45510), (352, 45603), (372, 45693),

Gene: Sampudon_65 Start: 44890, Stop: 46053, Start Num: 63

Candidate Starts for Sampudon_65:

(Start: 63 @44890 has 31 MA's), (73, 44905), (121, 45034), (139, 45124), (140, 45127), (151, 45163), (160, 45196), (195, 45310), (203, 45337), (209, 45376), (210, 45391), (216, 45421), (220, 45451), (226, 45481), (237, 45529), (281, 45664), (309, 45766), (323, 45820), (326, 45829), (330, 45838), (337, 45862), (352, 45955), (372, 46045),

Gene: Sansa_36 Start: 26883, Stop: 25720, Start Num: 61

Candidate Starts for Sansa_36:

(40, 26919), (Start: 44 @26910 has 3 MA's), (Start: 61 @26883 has 32 MA's), (113, 26772), (114, 26769), (182, 26505), (188, 26487), (193, 26463), (197, 26448), (206, 26397), (221, 26307), (248, 26169), (253, 26139), (272, 26109), (282, 26082), (310, 25980), (336, 25887), (341, 25854), (345, 25830), (347, 25818),

Gene: Saratos_37 Start: 26791, Stop: 25628, Start Num: 61

Candidate Starts for Saratos_37:

(40, 26827), (Start: 44 @26818 has 3 MA's), (Start: 61 @26791 has 32 MA's), (113, 26680), (114, 26677), (122, 26632), (172, 26446), (182, 26413), (188, 26395), (193, 26371), (197, 26356), (206, 26305), (221, 26215), (248, 26077), (253, 26047), (272, 26017), (282, 25990), (310, 25888), (336, 25795), (341, 25762), (345, 25738), (347, 25726),

Gene: Schimmels22_36 Start: 25802, Stop: 24621, Start Num: 55

Candidate Starts for Schimmels22_36:

(10, 26018), (17, 25955), (22, 25910), (26, 25874), (Start: 55 @25802 has 127 MA's), (113, 25673), (122, 25625), (182, 25406), (185, 25394), (188, 25388), (193, 25364), (197, 25349), (206, 25298), (221, 25208), (248, 25070), (253, 25040), (266, 25022), (276, 25001), (310, 24881), (321, 24839), (336, 24788), (341, 24755), (345, 24731), (347, 24719),

Gene: Schnapsidee_37 Start: 27208, Stop: 26030, Start Num: 55

Candidate Starts for Schnapsidee_37:

(26, 27280), (Start: 52 @27217 has 13 MA's), (Start: 55 @27208 has 127 MA's), (113, 27082), (114, 27079), (172, 26848), (193, 26773), (197, 26758), (248, 26479), (253, 26449), (272, 26419), (274, 26416), (309, 26293), (336, 26197), (341, 26164),

Gene: Schubert_35 Start: 26499, Stop: 25312, Start Num: 55

Candidate Starts for Schubert_35:

(13, 26679), (16, 26667), (27, 26568), (42, 26535), (Start: 55 @26499 has 127 MA's), (94, 26412), (108, 26382), (113, 26367), (190, 26070), (193, 26058), (248, 25764), (253, 25734), (272, 25704), (299, 25626), (309, 25578), (321, 25533), (327, 25515), (341, 25449), (347, 25413), (355, 25374),

Gene: Scissor2024_36 Start: 25439, Stop: 24258, Start Num: 55

Candidate Starts for Scissor2024_36:

(10, 25655), (17, 25592), (22, 25547), (26, 25511), (Start: 55 @25439 has 127 MA's), (113, 25310), (122, 25262), (182, 25043), (185, 25031), (188, 25025), (193, 25001), (197, 24986), (206, 24935), (221, 24845), (248, 24707), (253, 24677), (266, 24659), (276, 24638), (310, 24518), (321, 24476), (336, 24425), (341, 24392), (345, 24368), (347, 24356),

Gene: Scuba_76 Start: 52584, Stop: 51394, Start Num: 58

Candidate Starts for Scuba_76:

(8, 52815), (9, 52812), (Start: 58 @52584 has 3 MA's), (64, 52575), (73, 52557), (114, 52464), (140, 52341), (146, 52314), (153, 52287), (160, 52260), (237, 51927), (253, 51840), (281, 51747), (297, 51699), (326, 51582), (333, 51558), (345, 51495), (350, 51465), (357, 51441),

Gene: Sedgewig_37 Start: 26765, Stop: 25590, Start Num: 55

Candidate Starts for Sedgewig_37:

(21, 26885), (27, 26834), (Start: 52 @26774 has 13 MA's), (Start: 55 @26765 has 127 MA's), (113, 26642), (Start: 116 @26627 has 1 MA's), (177, 26390), (193, 26333), (248, 26039), (253, 26009), (272, 25979), (274, 25976), (305, 25871), (309, 25853), (312, 25841), (321, 25808), (336, 25757), (341, 25724),

Gene: Send513_69 Start: 51699, Stop: 52868, Start Num: 66

Candidate Starts for Send513_69:

(Start: 66 @51699 has 10 MA's), (73, 51714), (91, 51756), (108, 51789), (157, 51990), (160, 52005), (197, 52137), (209, 52200), (210, 52215), (232, 52332), (293, 52533), (295, 52539), (297, 52545), (324, 52656), (326, 52662), (353, 52794), (367, 52854),

Gene: ShaiHulud_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for ShaiHulud_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (Start: 116 @26944 has 1 MA's), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: ShakeNBake_66 Start: 47186, Stop: 46188, Start Num: 67

Candidate Starts for ShakeNBake_66:

(45, 47237), (Start: 67 @47186 has 7 MA's), (73, 47174), (160, 46895), (161, 46892), (196, 46763), (203, 46736), (209, 46700), (220, 46625), (223, 46613), (236, 46550), (316, 46409), (326, 46376), (330, 46367), (344, 46295), (345, 46289), (361, 46205),

Gene: Shamu_37 Start: 26812, Stop: 25649, Start Num: 61

Candidate Starts for Shamu_37:

(40, 26848), (Start: 44 @26839 has 3 MA's), (Start: 61 @26812 has 32 MA's), (113, 26701), (114, 26698), (122, 26653), (172, 26467), (182, 26434), (188, 26416), (193, 26392), (197, 26377), (206, 26326), (221, 26236), (248, 26098), (253, 26068), (272, 26038), (282, 26011), (310, 25909), (336, 25816), (341, 25783), (345, 25759), (347, 25747),

Gene: SheckWes_46 Start: 31294, Stop: 30236, Start Num: 102

Candidate Starts for SheckWes_46:

(Start: 102 @31294 has 1 MA's), (129, 31177), (134, 31150), (140, 31126), (150, 31093), (160, 31060), (171, 31015), (197, 30913), (211, 30832), (228, 30754), (236, 30730), (240, 30706), (244, 30694), (278, 30613), (303, 30544), (304, 30538), (305, 30529), (313, 30493), (314, 30490), (317, 30478), (339, 30391), (345, 30349), (347, 30337), (348, 30331), (351, 30316),

Gene: Shee_38 Start: 27075, Stop: 25900, Start Num: 55

Candidate Starts for Shee_38:

(21, 27195), (27, 27144), (Start: 52 @27084 has 13 MA's), (Start: 55 @27075 has 127 MA's), (113, 26952), (Start: 116 @26937 has 1 MA's), (177, 26700), (193, 26643), (248, 26349), (253, 26319), (272, 26289), (274, 26286), (305, 26181), (309, 26163), (312, 26151), (321, 26118), (336, 26067), (341, 26034),

Gene: Shrew_83 Start: 49717, Stop: 50844, Start Num: 70

Candidate Starts for Shrew_83:

(49, 49672), (Start: 70 @49717 has 1 MA's), (113, 49822), (132, 49924), (160, 50005), (169, 50038), (208, 50206), (213, 50242), (301, 50533), (313, 50593), (316, 50605), (323, 50629), (326, 50638), (347, 50740), (349, 50752),

Gene: SilentWarrior_43 Start: 28085, Stop: 29212, Start Num: 65

Candidate Starts for SilentWarrior_43:

(1, 27692), (3, 27758), (4, 27773), (Start: 65 @28085 has 47 MA's), (Start: 74 @28106 has 1 MA's), (115, 28202), (140, 28316), (160, 28379), (183, 28475), (209, 28580), (236, 28730), (293, 28898), (309, 28964), (344, 29105), (353, 29162),

Gene: Sinatra_36 Start: 26663, Stop: 25500, Start Num: 52

Candidate Starts for Sinatra_36:

(27, 26723), (Start: 52 @26663 has 13 MA's), (Start: 100 @26573 has 2 MA's), (113, 26537), (114, 26534), (172, 26303), (193, 26228), (197, 26213), (203, 26186), (236, 26006), (246, 25961), (294, 25826), (299, 25811), (341, 25634), (347, 25598), (355, 25559),

Gene: SirHarley_59 Start: 43598, Stop: 44728, Start Num: 82

Candidate Starts for SirHarley_59:

(38, 43505), (Start: 52 @43532 has 13 MA's), (Start: 53 @43535 has 1 MA's), (Start: 60 @43550 has 46 MA's), (Start: 82 @43598 has 3 MA's), (104, 43637), (108, 43649), (130, 43748), (146, 43811), (160, 43865), (171, 43913), (195, 43979), (217, 44093), (220, 44120), (226, 44150), (236, 44195), (306, 44429), (323, 44495), (326, 44504), (330, 44513), (356, 44639), (372, 44720),

Gene: SirVictor_36 Start: 26730, Stop: 25579, Start Num: 55

Candidate Starts for SirVictor_36:

(26, 26802), (27, 26799), (Start: 52 @26739 has 13 MA's), (Start: 55 @26730 has 127 MA's), (113, 26619), (114, 26616), (172, 26385), (190, 26322), (197, 26295), (203, 26268), (294, 25908), (299, 25893), (310, 25842), (341, 25716), (345, 25692), (347, 25680),

Gene: SketchMex_41 Start: 29869, Stop: 28796, Start Num: 80

Candidate Starts for SketchMex_41:

(46, 29953), (Start: 57 @29923 has 1 MA's), (Start: 80 @29869 has 1 MA's), (85, 29860), (Start: 103 @29824 has 22 MA's), (155, 29629), (171, 29566), (202, 29440), (206, 29416), (220, 29329), (237, 29278), (288, 29149), (305, 29083), (309, 29065), (313, 29047), (335, 28963), (351, 28870),

Gene: Skysand_68 Start: 53458, Stop: 52295, Start Num: 76

Candidate Starts for Skysand_68:

(Start: 76 @53458 has 2 MA's), (130, 53287), (151, 53194), (152, 53191), (153, 53188), (160, 53161), (164, 53143), (178, 53086), (223, 52891), (224, 52888), (226, 52873), (237, 52825), (259, 52711), (264, 52699), (281, 52651), (297, 52603), (309, 52549), (326, 52486), (330, 52477), (352, 52357),

Gene: Snakehole_43 Start: 28023, Stop: 29177, Start Num: 65

Candidate Starts for Snakehole_43:

(1, 27624), (Start: 65 @28023 has 47 MA's), (Start: 74 @28044 has 1 MA's), (140, 28254), (160, 28317), (183, 28413), (209, 28518), (236, 28668), (266, 28794), (281, 28824), (309, 28929), (324, 28986), (344, 29070), (353, 29127),

Gene: SoilGremlin_38 Start: 27081, Stop: 25906, Start Num: 55

Candidate Starts for SoilGremlin_38:

(21, 27201), (27, 27150), (Start: 52 @27090 has 13 MA's), (Start: 55 @27081 has 127 MA's), (113, 26958), (Start: 116 @26943 has 1 MA's), (177, 26706), (193, 26649), (248, 26355), (253, 26325), (272, 26295), (274, 26292), (305, 26187), (309, 26169), (312, 26157), (321, 26124), (336, 26073), (341, 26040),

Gene: SonOfLevi_37 Start: 26762, Stop: 25587, Start Num: 55

Candidate Starts for SonOfLevi_37:

(21, 26882), (27, 26831), (Start: 52 @26771 has 13 MA's), (Start: 55 @26762 has 127 MA's), (113, 26639), (119, 26606), (177, 26387), (193, 26330), (248, 26036), (253, 26006), (272, 25976), (274, 25973), (305, 25868), (309, 25850), (312, 25838), (321, 25805), (336, 25754), (341, 25721),

Gene: Sopespian_40 Start: 29792, Stop: 28761, Start Num: 103

Candidate Starts for Sopespian_40:

(Start: 103 @29792 has 22 MA's), (147, 29621), (171, 29534), (185, 29477), (202, 29408), (209, 29375), (220, 29297), (237, 29246), (305, 29051), (309, 29033), (313, 29015), (335, 28931), (339, 28913),

Gene: Sparcetus_46 Start: 29700, Stop: 30797, Start Num: 68

Candidate Starts for Sparcetus_46:

(42, 29652), (Start: 68 @29700 has 3 MA's), (71, 29703), (Start: 74 @29709 has 1 MA's), (140, 29919), (142, 29925), (158, 29970), (160, 29982), (176, 30045), (183, 30078), (209, 30183), (238, 30345), (293, 30480), (301, 30504), (346, 30696), (353, 30744),

Gene: Stanktossa_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Stanktossa_38:

(21, 27198), (27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (Start: 116 @26940 has 1 MA's), (177, 26703), (193, 26646), (197, 26631), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: StarStruck_67 Start: 53139, Stop: 51931, Start Num: 65

Candidate Starts for StarStruck_67:

(Start: 65 @53139 has 47 MA's), (73, 53121), (136, 52917), (143, 52893), (152, 52854), (153, 52851), (160, 52824), (178, 52749), (203, 52662), (223, 52536), (237, 52470), (256, 52359), (274, 52311), (297, 52242), (309, 52188), (323, 52134), (326, 52125), (330, 52116), (350, 52008), (352, 51996),

Gene: Starburst_42 Start: 29785, Stop: 28754, Start Num: 103

Candidate Starts for Starburst_42:

(Start: 103 @29785 has 22 MA's), (134, 29644), (171, 29527), (185, 29470), (202, 29401), (209, 29368), (220, 29290), (237, 29239), (305, 29044), (309, 29026), (313, 29008), (335, 28924), (339, 28906), (351, 28831),

Gene: SteamedHams_42 Start: 29606, Stop: 28572, Start Num: 103

Candidate Starts for SteamedHams_42:

(Start: 103 @29606 has 22 MA's), (122, 29531), (155, 29411), (171, 29348), (197, 29246), (220, 29111), (288, 28931), (291, 28922), (305, 28865), (309, 28847), (313, 28829), (335, 28745),

Gene: Stickynote_69 Start: 50521, Stop: 49409, Start Num: 69

Candidate Starts for Stickynote_69:

(Start: 69 @50521 has 10 MA's), (131, 50335), (160, 50221), (170, 50179), (178, 50146), (199, 50083), (201, 50074), (203, 50065), (209, 50029), (216, 49975), (250, 49792), (320, 49603), (326, 49582), (336, 49552), (348, 49480), (351, 49465), (352, 49456),

Gene: StingRay_37 Start: 26783, Stop: 25608, Start Num: 55

Candidate Starts for StingRay_37:

(21, 26903), (27, 26852), (Start: 52 @26792 has 13 MA's), (Start: 55 @26783 has 127 MA's), (113, 26660), (Start: 116 @26645 has 1 MA's), (132, 26558), (177, 26408), (193, 26351), (197, 26336), (248, 26057), (253, 26027), (272, 25997), (274, 25994), (305, 25889), (309, 25871), (312, 25859), (321, 25826), (336, 25775), (341, 25742),

Gene: StirfryIV_37 Start: 26776, Stop: 25601, Start Num: 55

Candidate Starts for StirfryIV_37:

(21, 26896), (27, 26845), (Start: 52 @26785 has 13 MA's), (Start: 55 @26776 has 127 MA's), (113, 26653), (Start: 116 @26638 has 1 MA's), (132, 26551), (177, 26401), (193, 26344), (197, 26329), (248, 26050), (253, 26020), (272, 25990), (274, 25987), (305, 25882), (309, 25864), (312, 25852), (321, 25819), (336, 25768), (341, 25735),

Gene: Stormbreaker8_37 Start: 27202, Stop: 26024, Start Num: 55

Candidate Starts for Stormbreaker8_37:

(26, 27274), (Start: 52 @27211 has 13 MA's), (Start: 55 @27202 has 127 MA's), (113, 27076), (114, 27073), (172, 26842), (193, 26767), (197, 26752), (248, 26473), (272, 26413), (274, 26410), (309, 26287), (336, 26191), (341, 26158),

Gene: Strathdee_38 Start: 27083, Stop: 25908, Start Num: 55

Candidate Starts for Strathdee_38:

(21, 27203), (27, 27152), (Start: 52 @27092 has 13 MA's), (Start: 55 @27083 has 127 MA's), (113, 26960), (Start: 116 @26945 has 1 MA's), (132, 26858), (177, 26708), (193, 26651), (248, 26357), (253, 26327), (272, 26297), (274, 26294), (305, 26189), (309, 26171), (312, 26159), (321, 26126), (336, 26075), (341, 26042),

Gene: Sukkupi_67 Start: 51527, Stop: 50328, Start Num: 65

Candidate Starts for Sukkupi_67:

(Start: 65 @51527 has 47 MA's), (136, 51308), (143, 51284), (151, 51248), (152, 51245), (153, 51242), (160, 51215), (164, 51197), (178, 51140), (220, 50942), (237, 50864), (253, 50777), (281, 50684), (286, 50669), (296, 50639), (297, 50636), (301, 50624), (309, 50582), (326, 50519), (330, 50510), (349, 50408), (350, 50402),

Gene: SummitAcademy_42 Start: 31170, Stop: 30112, Start Num: 96

Candidate Starts for SummitAcademy_42:

(Start: 96 @31170 has 17 MA's), (129, 31044), (134, 31017), (140, 30993), (150, 30960), (160, 30927), (171, 30882), (197, 30780), (211, 30699), (228, 30621), (240, 30573), (244, 30561), (278, 30480), (303, 30411), (304, 30405), (305, 30396), (313, 30360), (317, 30345), (339, 30258), (345, 30216), (347, 30204), (348, 30198), (351, 30183),

Gene: SuperSulley_68 Start: 53499, Stop: 52291, Start Num: 65

Candidate Starts for SuperSulley_68:

(Start: 65 @53499 has 47 MA's), (136, 53277), (143, 53253), (152, 53214), (153, 53211), (160, 53184), (164, 53166), (178, 53109), (223, 52896), (237, 52830), (256, 52719), (274, 52671), (301, 52590), (309, 52548), (323, 52494), (326, 52485), (330, 52476), (350, 52368),

Gene: Superfresh_38 Start: 27070, Stop: 25895, Start Num: 55

Candidate Starts for Superfresh_38:

(21, 27190), (27, 27139), (Start: 52 @27079 has 13 MA's), (Start: 55 @27070 has 127 MA's), (113, 26947), (Start: 116 @26932 has 1 MA's), (177, 26695), (193, 26638), (197, 26623), (248, 26344), (253, 26314), (272, 26284), (274, 26281), (305, 26176), (309, 26158), (312, 26146), (321, 26113), (336, 26062), (341, 26029),

Gene: Survivors_39 Start: 29605, Stop: 28574, Start Num: 96

Candidate Starts for Survivors_39:

(Start: 96 @29605 has 17 MA's), (113, 29566), (124, 29509), (134, 29452), (147, 29422), (166, 29356), (171, 29335), (197, 29233), (204, 29203), (209, 29176), (216, 29128), (220, 29098), (280, 28933), (309, 28837), (313, 28819), (317, 28804),

Gene: SweatNTears_42 Start: 29688, Stop: 28657, Start Num: 103

Candidate Starts for SweatNTears_42:

(30, 29856), (46, 29817), (Start: 70 @29763 has 1 MA's), (86, 29724), (90, 29712), (Start: 103 @29688 has 22 MA's), (155, 29493), (171, 29430), (202, 29304), (211, 29247), (220, 29193), (237, 29142), (288, 29013), (291, 29004), (294, 28992), (305, 28947), (309, 28929), (313, 28911), (339, 28809),

Gene: Symere_38 Start: 26763, Stop: 25588, Start Num: 55

Candidate Starts for Symere_38:

(21, 26883), (27, 26832), (Start: 52 @26772 has 13 MA's), (Start: 55 @26763 has 127 MA's), (113, 26640), (Start: 116 @26625 has 1 MA's), (177, 26388), (193, 26331), (248, 26037), (253, 26007), (272, 25977), (274, 25974), (305, 25869), (309, 25851), (312, 25839), (321, 25806), (336, 25755), (341, 25722),

Gene: TatarkaPM_38 Start: 27087, Stop: 25909, Start Num: 55

Candidate Starts for TatarkaPM_38:

(21, 27207), (27, 27156), (Start: 52 @27096 has 13 MA's), (Start: 55 @27087 has 127 MA's), (113, 26964), (Start: 116 @26949 has 1 MA's), (177, 26712), (193, 26655), (197, 26640), (248, 26361), (253, 26331), (272, 26301), (274, 26298), (305, 26193), (309, 26175), (312, 26163), (321, 26130), (336, 26079), (341, 26046),

Gene: Teagan_38 Start: 27078, Stop: 25903, Start Num: 55

Candidate Starts for Teagan_38:

(27, 27147), (Start: 52 @27087 has 13 MA's), (Start: 55 @27078 has 127 MA's), (113, 26955), (132, 26853), (177, 26703), (193, 26646), (248, 26352), (253, 26322), (272, 26292), (274, 26289), (305, 26184), (309, 26166), (312, 26154), (321, 26121), (336, 26070), (341, 26037),

Gene: TeddyBear_37 Start: 26780, Stop: 25605, Start Num: 55

Candidate Starts for TeddyBear_37:

(21, 26900), (27, 26849), (Start: 52 @26789 has 13 MA's), (Start: 55 @26780 has 127 MA's), (113, 26657), (119, 26624), (177, 26405), (193, 26348), (248, 26054), (253, 26024), (272, 25994), (274, 25991), (305, 25886), (309, 25868), (312, 25856), (321, 25823), (336, 25772), (341, 25739),

Gene: Tedro_43 Start: 28325, Stop: 29431, Start Num: 65

Candidate Starts for Tedro_43:

(1, 27932), (4, 28013), (Start: 65 @28325 has 47 MA's), (Start: 74 @28346 has 1 MA's), (140, 28556), (160, 28619), (183, 28715), (209, 28820), (236, 28970), (309, 29183), (324, 29240), (344, 29324), (353, 29381),

Gene: Tenda_37 Start: 26778, Stop: 25603, Start Num: 55

Candidate Starts for Tenda_37:

(21, 26898), (27, 26847), (Start: 52 @26787 has 13 MA's), (Start: 55 @26778 has 127 MA's), (113, 26655), (Start: 116 @26640 has 1 MA's), (177, 26403), (193, 26346), (197, 26331), (248, 26052), (253, 26022), (272, 25992), (274, 25989), (305, 25884), (309, 25866), (312, 25854), (321, 25821), (336, 25770), (341, 25737),

Gene: Thompsone_38 Start: 27085, Stop: 25910, Start Num: 55

Candidate Starts for Thompsone_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: Thorongil_38 Start: 27085, Stop: 25910, Start Num: 55

Candidate Starts for Thorongil_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (Start: 116 @26947 has 1 MA's), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: Thoth_57 Start: 43106, Stop: 44284, Start Num: 60

Candidate Starts for Thoth_57:

(5, 42824), (7, 42854), (15, 42917), (Start: 60 @43106 has 46 MA's), (Start: 82 @43154 has 3 MA's), (104, 43193), (108, 43205), (130, 43304), (146, 43367), (160, 43421), (171, 43469), (195, 43535), (217, 43649), (220, 43676), (226, 43706), (236, 43751), (306, 43985), (323, 44051), (326, 44060), (330, 44069), (356, 44195), (372, 44276),

Gene: Thumb_68 Start: 50115, Stop: 51404, Start Num: 50

Candidate Starts for Thumb_68:

(34, 50076), (Start: 44 @50100 has 3 MA's), (Start: 50 @50115 has 8 MA's), (105, 50229), (108, 50238), (111, 50247), (120, 50289), (159, 50463), (160, 50469), (171, 50520), (198, 50634), (202, 50652), (203, 50655), (205, 50670), (209, 50691), (231, 50823), (233, 50829), (274, 50967), (290, 51012), (297, 51030), (309, 51084), (325, 51144), (337, 51180), (353, 51276),

Gene: Tillicus_61 Start: 43238, Stop: 44398, Start Num: 63

Candidate Starts for Tillicus_61:

(Start: 63 @43238 has 31 MA's), (73, 43253), (121, 43382), (Start: 138 @43466 has 1 MA's), (153, 43517), (160, 43544), (195, 43658), (203, 43685), (209, 43721), (210, 43736), (213, 43751), (216, 43766), (220, 43796), (237, 43874), (249, 43934), (255, 43961), (281, 44009), (283, 44015), (311, 44117), (323, 44165), (326, 44174), (337, 44207), (352, 44300), (372, 44390),

Gene: TinSulphur_38 Start: 27084, Stop: 25909, Start Num: 55

Candidate Starts for TinSulphur_38:

(21, 27204), (27, 27153), (Start: 52 @27093 has 13 MA's), (Start: 55 @27084 has 127 MA's), (113, 26961), (Start: 116 @26946 has 1 MA's), (177, 26709), (193, 26652), (197, 26637), (248, 26358), (253, 26328), (272, 26298), (274, 26295), (305, 26190), (309, 26172), (312, 26160), (321, 26127), (336, 26076), (341, 26043),

Gene: TinyMiny_46 Start: 29721, Stop: 30818, Start Num: 68

Candidate Starts for TinyMiny_46:

(Start: 39 @29667 has 1 MA's), (Start: 68 @29721 has 3 MA's), (71, 29724), (Start: 74 @29730 has 1 MA's), (140, 29940), (142, 29946), (158, 29991), (160, 30003), (176, 30066), (183, 30099), (209, 30204), (238, 30366), (293, 30501), (301, 30525), (346, 30717), (353, 30765),

Gene: Tinyman4_36 Start: 25428, Stop: 24247, Start Num: 55

Candidate Starts for Tinyman4_36:

(10, 25644), (17, 25581), (22, 25536), (26, 25500), (Start: 55 @25428 has 127 MA's), (113, 25299), (122, 25251), (182, 25032), (185, 25020), (188, 25014), (193, 24990), (197, 24975), (206, 24924), (221, 24834), (253, 24666), (266, 24648), (276, 24627), (310, 24507), (321, 24465), (336, 24414), (341, 24381), (345, 24357), (347, 24345),

Gene: Tolls_42 Start: 29711, Stop: 28677, Start Num: 103

Candidate Starts for Tolls_42:

(Start: 103 @29711 has 22 MA's), (122, 29636), (155, 29516), (171, 29453), (197, 29351), (220, 29216), (288, 29036), (291, 29027), (305, 28970), (309, 28952), (313, 28934), (335, 28850),

Gene: Tracker_66 Start: 52125, Stop: 50926, Start Num: 60

Candidate Starts for Tracker_66:

(Start: 60 @52125 has 46 MA's), (152, 51837), (153, 51834), (159, 51813), (160, 51807), (220, 51534), (223, 51522), (226, 51504), (234, 51471), (237, 51456), (253, 51369), (281, 51282), (295, 51240), (296, 51237), (297, 51234), (309, 51180), (324, 51123), (325, 51120), (326, 51117), (330, 51108), (350, 51000), (357, 50976),

Gene: Triscuit_78 Start: 48360, Stop: 49469, Start Num: 72

Candidate Starts for Triscuit_78:

(Start: 72 @48360 has 2 MA's), (83, 48390), (113, 48456), (117, 48483), (160, 48639), (169, 48672), (175, 48696), (208, 48837), (313, 49218), (316, 49230), (317, 49233), (318, 49236), (319, 49239), (326, 49263), (338, 49302), (340, 49317), (347, 49365), (349, 49377),

Gene: Troje_43 Start: 30162, Stop: 29134, Start Num: 103

Candidate Starts for Troje_43:

(46, 30291), (Start: 57 @30261 has 1 MA's), (Start: 80 @30207 has 1 MA's), (85, 30198), (Start: 103 @30162 has 22 MA's), (155, 29967), (171, 29904), (202, 29778), (206, 29754), (220, 29667), (237, 29616), (288, 29487), (305, 29421), (309, 29403), (313, 29385), (335, 29301), (351, 29208),

Gene: Troll4_57 Start: 43237, Stop: 44415, Start Num: 60

Candidate Starts for Troll4_57:

(5, 42955), (7, 42985), (15, 43048), (Start: 60 @43237 has 46 MA's), (Start: 82 @43285 has 3 MA's), (104, 43324), (108, 43336), (130, 43435), (146, 43498), (160, 43552), (171, 43600), (195, 43666), (217, 43780), (220, 43807), (226, 43837), (236, 43882), (306, 44116), (323, 44182), (326, 44191), (330, 44200), (356, 44326), (372, 44407),

Gene: Turuncu_69 Start: 52823, Stop: 51867, Start Num: 138

Candidate Starts for Turuncu_69:

(Start: 138 @52823 has 1 MA's), (144, 52799), (152, 52763), (160, 52733), (171, 52685), (195, 52622), (237, 52403), (253, 52316), (256, 52292), (274, 52244), (297, 52175), (326, 52058), (330, 52049), (333, 52034), (357, 51917),

Gene: Typhonomachy_41 Start: 29500, Stop: 28469, Start Num: 103

Candidate Starts for Typhonomachy_41:

(Start: 103 @29500 has 22 MA's), (134, 29359), (171, 29242), (185, 29185), (202, 29116), (209, 29083), (220, 29005), (237, 28954), (305, 28759), (309, 28741), (313, 28723), (335, 28639), (339, 28621),

Gene: Velene_38 Start: 27083, Stop: 25908, Start Num: 55

Candidate Starts for Velene_38:

(21, 27203), (27, 27152), (Start: 52 @27092 has 13 MA's), (Start: 55 @27083 has 127 MA's), (113, 26960), (132, 26858), (177, 26708), (193, 26651), (248, 26357), (253, 26327), (272, 26297), (274, 26294), (305, 26189), (309, 26171), (312, 26159), (321, 26126), (336, 26075), (341, 26042),

Gene: Vine_45 Start: 31897, Stop: 30839, Start Num: 96

Candidate Starts for Vine_45:

(86, 31921), (Start: 96 @31897 has 17 MA's), (129, 31771), (140, 31720), (147, 31696), (150, 31687), (160, 31654), (171, 31609), (197, 31507), (211, 31426), (228, 31348), (240, 31300), (278, 31207), (293, 31171), (303, 31138), (304, 31132), (305, 31123), (308, 31108), (313, 31087), (317, 31072), (345, 30943), (347, 30931), (348, 30925), (351, 30910),

Gene: Visconti_58 Start: 43117, Stop: 44295, Start Num: 60

Candidate Starts for Visconti_58:

(5, 42835), (7, 42865), (15, 42928), (Start: 60 @43117 has 46 MA's), (Start: 82 @43165 has 3 MA's), (104, 43204), (108, 43216), (130, 43315), (146, 43378), (160, 43432), (171, 43480), (195, 43546),

(217, 43660), (220, 43687), (226, 43717), (236, 43762), (306, 43996), (323, 44062), (326, 44071), (330, 44080), (356, 44206), (372, 44287),

Gene: Vispistious_38 Start: 27094, Stop: 25910, Start Num: 52

Candidate Starts for Vispistious_38:

(21, 27205), (27, 27154), (Start: 52 @27094 has 13 MA's), (Start: 55 @27085 has 127 MA's), (113, 26962), (Start: 116 @26947 has 1 MA's), (132, 26860), (177, 26710), (193, 26653), (248, 26359), (253, 26329), (272, 26299), (274, 26296), (305, 26191), (309, 26173), (312, 26161), (321, 26128), (336, 26077), (341, 26044),

Gene: WaldoWhy_59 Start: 43170, Stop: 44348, Start Num: 60

Candidate Starts for WaldoWhy_59:

(5, 42888), (7, 42918), (15, 42981), (Start: 60 @43170 has 46 MA's), (Start: 82 @43218 has 3 MA's), (104, 43257), (108, 43269), (130, 43368), (146, 43431), (160, 43485), (171, 43533), (195, 43599), (217, 43713), (220, 43740), (226, 43770), (236, 43815), (306, 44049), (323, 44115), (326, 44124), (330, 44133), (356, 44259), (372, 44340),

Gene: Wardwill_37 Start: 25155, Stop: 23977, Start Num: 61

Candidate Starts for Wardwill_37:

(29, 25227), (37, 25212), (Start: 61 @25155 has 32 MA's), (113, 25041), (193, 24723), (197, 24708), (206, 24657), (239, 24465), (248, 24429), (272, 24369), (274, 24366), (299, 24291), (310, 24240), (339, 24135), (347, 24078),

Gene: Weiss13_69 Start: 51402, Stop: 52571, Start Num: 66

Candidate Starts for Weiss13_69:

(Start: 66 @51402 has 10 MA's), (73, 51417), (91, 51459), (108, 51492), (157, 51693), (160, 51708), (197, 51840), (209, 51903), (210, 51918), (226, 52008), (232, 52035), (293, 52236), (295, 52242), (297, 52248), (324, 52359), (326, 52365), (353, 52497), (367, 52557),

Gene: Wentworth_66 Start: 47288, Stop: 46290, Start Num: 67

Candidate Starts for Wentworth_66:

(45, 47339), (Start: 67 @47288 has 7 MA's), (73, 47276), (160, 46997), (161, 46994), (184, 46898), (203, 46838), (209, 46802), (220, 46727), (223, 46715), (234, 46664), (236, 46652), (316, 46511), (326, 46478), (330, 46469), (344, 46397), (345, 46391), (349, 46367),

Gene: WestPM_34 Start: 25285, Stop: 24104, Start Num: 55

Candidate Starts for WestPM_34:

(26, 25357), (Start: 55 @25285 has 127 MA's), (113, 25156), (114, 25153), (122, 25108), (182, 24889), (188, 24871), (193, 24847), (197, 24832), (206, 24781), (221, 24691), (248, 24553), (253, 24523), (276, 24484), (310, 24364), (336, 24271), (341, 24238), (345, 24214), (347, 24202),

Gene: Wheezy_66 Start: 52339, Stop: 51140, Start Num: 60

Candidate Starts for Wheezy_66:

(Start: 60 @52339 has 46 MA's), (152, 52051), (153, 52048), (159, 52027), (160, 52021), (220, 51748), (223, 51736), (226, 51718), (234, 51685), (237, 51670), (253, 51583), (281, 51496), (296, 51451), (297, 51448), (324, 51337), (325, 51334), (326, 51331), (330, 51322), (345, 51244), (350, 51214), (357, 51190),

Gene: WhoseManz_67 Start: 49542, Stop: 48343, Start Num: 65

Candidate Starts for WhoseManz_67:

(Start: 65 @49542 has 47 MA's), (136, 49323), (143, 49299), (152, 49260), (153, 49257), (160, 49230), (164, 49212), (178, 49155), (220, 48957), (237, 48879), (242, 48852), (252, 48795), (253, 48792), (281, 48699), (296, 48654), (297, 48651), (301, 48639), (309, 48597), (326, 48534), (330, 48525),

(349, 48423), (350, 48417), (357, 48393),

Gene: WildNOut_38 Start: 27082, Stop: 25907, Start Num: 55

Candidate Starts for WildNOut_38:

(21, 27202), (27, 27151), (Start: 52 @27091 has 13 MA's), (Start: 55 @27082 has 127 MA's), (113, 26959), (Start: 116 @26944 has 1 MA's), (132, 26857), (177, 26707), (193, 26650), (248, 26356), (253, 26326), (272, 26296), (274, 26293), (305, 26188), (309, 26170), (312, 26158), (321, 26125), (336, 26074), (341, 26041),

Gene: Wilkos_68 Start: 47443, Stop: 46445, Start Num: 67

Candidate Starts for Wilkos_68:

(45, 47494), (Start: 67 @47443 has 7 MA's), (73, 47431), (160, 47152), (161, 47149), (196, 47020), (203, 46993), (209, 46957), (220, 46882), (223, 46870), (234, 46819), (236, 46807), (316, 46666), (326, 46633), (330, 46624), (344, 46552), (345, 46546), (349, 46522),

Gene: WilliamStrong_36 Start: 26624, Stop: 25461, Start Num: 61

Candidate Starts for WilliamStrong_36:

(Start: 61 @26624 has 32 MA's), (73, 26612), (113, 26513), (Start: 116 @26498 has 1 MA's), (177, 26261), (188, 26228), (190, 26216), (193, 26204), (197, 26189), (206, 26138), (221, 26048), (248, 25910), (272, 25850), (294, 25787), (336, 25628), (345, 25571), (347, 25559),

Gene: Winzigespinne_37 Start: 26766, Stop: 25591, Start Num: 55

Candidate Starts for Winzigespinne_37:

(21, 26886), (27, 26835), (Start: 52 @26775 has 13 MA's), (Start: 55 @26766 has 127 MA's), (113, 26643), (Start: 116 @26628 has 1 MA's), (132, 26541), (177, 26391), (193, 26334), (197, 26319), (248, 26040), (253, 26010), (272, 25980), (274, 25977), (305, 25872), (309, 25854), (312, 25842), (321, 25809), (336, 25758), (341, 25725),

Gene: Wojtek_61 Start: 42920, Stop: 44134, Start Num: 63

Candidate Starts for Wojtek_61:

(Start: 63 @42920 has 31 MA's), (73, 42935), (121, 43064), (Start: 138 @43148 has 1 MA's), (153, 43199), (160, 43226), (195, 43340), (203, 43367), (210, 43418), (213, 43433), (216, 43448), (220, 43478), (237, 43556), (281, 43745), (311, 43853), (323, 43901), (326, 43910), (337, 43943), (352, 44036), (372, 44126),

Gene: Wollypog_46 Start: 33478, Stop: 34599, Start Num: 69

Candidate Starts for Wollypog_46:

(Start: 69 @33478 has 10 MA's), (133, 33679), (Start: 138 @33697 has 1 MA's), (156, 33751), (160, 33769), (178, 33844), (220, 34045), (222, 34054), (253, 34210), (277, 34234), (281, 34246), (283, 34252), (295, 34288), (344, 34498), (353, 34549),

Gene: Xenia2_59 Start: 42310, Stop: 43470, Start Num: 63

Candidate Starts for Xenia2_59:

(Start: 52 @42286 has 13 MA's), (Start: 63 @42310 has 31 MA's), (73, 42322), (121, 42451), (139, 42541), (140, 42544), (153, 42586), (160, 42613), (163, 42628), (180, 42694), (203, 42754), (210, 42808), (216, 42838), (220, 42868), (235, 42940), (254, 43033), (263, 43042), (283, 43087), (308, 43180), (323, 43237), (326, 43246), (330, 43255), (337, 43279), (352, 43372),

Gene: Yakult_43 Start: 30412, Stop: 29396, Start Num: 103

Candidate Starts for Yakult_43:

(Start: 103 @30412 has 22 MA's), (Start: 109 @30397 has 1 MA's), (134, 30271), (147, 30241), (171, 30154), (185, 30097), (197, 30052), (202, 30028), (204, 30022), (219, 29923), (220, 29917), (228, 29893), (237, 29866), (303, 29689), (305, 29674), (316, 29626), (332, 29566), (339, 29536),

Gene: Yara_62 Start: 46145, Stop: 45150, Start Num: 69

Candidate Starts for Yara_62:

(Start: 69 @46145 has 10 MA's), (73, 46136), (160, 45857), (161, 45854), (203, 45698), (209, 45662), (212, 45635), (220, 45587), (223, 45575), (234, 45524), (236, 45512), (309, 45401), (316, 45371), (326, 45338), (330, 45329), (344, 45257), (349, 45227),

Gene: Yarn_38 Start: 29471, Stop: 28437, Start Num: 103

Candidate Starts for Yarn_38:

(Start: 103 @29471 has 22 MA's), (155, 29276), (171, 29213), (197, 29111), (220, 28976), (288, 28796), (291, 28787), (305, 28730), (309, 28712), (313, 28694), (335, 28610),

Gene: Yelo_68 Start: 51781, Stop: 52950, Start Num: 66

Candidate Starts for Yelo_68:

(Start: 66 @51781 has 10 MA's), (73, 51796), (91, 51838), (108, 51871), (157, 52072), (160, 52087), (184, 52186), (197, 52219), (209, 52282), (210, 52297), (226, 52387), (232, 52414), (293, 52615), (295, 52621), (297, 52627), (324, 52738), (326, 52744), (353, 52876), (367, 52936),

Gene: Yikes_67 Start: 44984, Stop: 46147, Start Num: 63

Candidate Starts for Yikes_67:

(Start: 63 @44984 has 31 MA's), (73, 44999), (121, 45128), (139, 45218), (140, 45221), (151, 45257), (160, 45290), (195, 45404), (203, 45431), (209, 45470), (210, 45485), (216, 45515), (220, 45545), (226, 45575), (237, 45623), (250, 45698), (265, 45719), (281, 45758), (309, 45860), (323, 45914), (326, 45923), (330, 45932), (337, 45956), (352, 46049), (372, 46139),

Gene: Yindexa_67 Start: 51527, Stop: 50328, Start Num: 65

Candidate Starts for Yindexa_67:

(Start: 65 @51527 has 47 MA's), (136, 51308), (143, 51284), (151, 51248), (152, 51245), (153, 51242), (160, 51215), (164, 51197), (178, 51140), (220, 50942), (237, 50864), (253, 50777), (281, 50684), (286, 50669), (296, 50639), (297, 50636), (301, 50624), (309, 50582), (326, 50519), (330, 50510), (349, 50408), (350, 50402),

Gene: Yucky_46 Start: 31828, Stop: 30779, Start Num: 99

Candidate Starts for Yucky_46:

(Start: 99 @31828 has 1 MA's), (129, 31711), (140, 31660), (147, 31636), (150, 31627), (160, 31594), (171, 31549), (197, 31447), (211, 31366), (228, 31288), (240, 31240), (278, 31147), (293, 31111), (303, 31078), (304, 31072), (305, 31063), (308, 31048), (313, 31027), (314, 31024), (317, 31012), (345, 30883), (347, 30871), (348, 30865), (351, 30850),

Gene: Yummy_43 Start: 29799, Stop: 28771, Start Num: 103

Candidate Starts for Yummy_43:

(28, 29973), (46, 29928), (Start: 103 @29799 has 22 MA's), (155, 29604), (171, 29541), (202, 29415), (211, 29358), (220, 29304), (237, 29253), (288, 29124), (291, 29115), (294, 29103), (305, 29058), (309, 29040), (313, 29022), (339, 28920), (351, 28845),

Gene: YuuY_36 Start: 27283, Stop: 26087, Start Num: 53

Candidate Starts for YuuY_36:

(26, 27346), (Start: 53 @27283 has 1 MA's), (Start: 57 @27274 has 1 MA's), (108, 27166), (113, 27151), (188, 26857), (190, 26845), (193, 26833), (197, 26818), (206, 26767), (248, 26539), (272, 26479), (274, 26476), (294, 26416), (299, 26401), (310, 26350), (321, 26308), (336, 26257), (347, 26188),

Gene: Zada_38 Start: 27054, Stop: 25879, Start Num: 55

Candidate Starts for Zada_38:

(21, 27174), (27, 27123), (Start: 52 @27063 has 13 MA's), (Start: 55 @27054 has 127 MA's), (113, 26931), (Start: 116 @26916 has 1 MA's), (132, 26829), (177, 26679), (193, 26622), (197, 26607), (248, 26328), (253, 26298), (272, 26268), (274, 26265), (305, 26160), (309, 26142), (312, 26130), (321, 26097), (336, 26046), (341, 26013),

Gene: Zany_63 Start: 44385, Stop: 45548, Start Num: 63

Candidate Starts for Zany_63:

(Start: 63 @44385 has 31 MA's), (73, 44400), (121, 44529), (139, 44619), (140, 44622), (151, 44658), (160, 44691), (195, 44805), (203, 44832), (209, 44871), (210, 44886), (216, 44916), (220, 44946), (226, 44976), (237, 45024), (281, 45159), (309, 45261), (323, 45315), (326, 45324), (330, 45333), (337, 45357), (352, 45450), (372, 45540),

Gene: Zareef_41 Start: 29699, Stop: 28668, Start Num: 96

Candidate Starts for Zareef_41:

(Start: 96 @29699 has 17 MA's), (113, 29660), (124, 29603), (134, 29546), (147, 29516), (166, 29450), (171, 29429), (197, 29327), (204, 29297), (209, 29270), (216, 29222), (220, 29192), (280, 29027), (309, 28931), (313, 28913), (317, 28898),

Gene: Zayuliv_35 Start: 25574, Stop: 24396, Start Num: 61

Candidate Starts for Zayuliv_35:

(29, 25646), (37, 25631), (Start: 61 @25574 has 32 MA's), (113, 25460), (193, 25142), (197, 25127), (206, 25076), (239, 24884), (248, 24848), (272, 24788), (274, 24785), (299, 24710), (310, 24659), (339, 24554), (347, 24497),

Gene: Zenitsu_37 Start: 26827, Stop: 25664, Start Num: 61

Candidate Starts for Zenitsu_37:

(40, 26863), (Start: 44 @26854 has 3 MA's), (Start: 61 @26827 has 32 MA's), (113, 26716), (122, 26668), (172, 26482), (182, 26449), (188, 26431), (193, 26407), (197, 26392), (206, 26341), (221, 26251), (248, 26113), (253, 26083), (272, 26053), (274, 26050), (282, 26026), (310, 25924), (336, 25831), (341, 25798), (345, 25774), (347, 25762),

Gene: Zenon_71 Start: 51725, Stop: 52894, Start Num: 66

Candidate Starts for Zenon_71:

(Start: 66 @51725 has 10 MA's), (73, 51740), (91, 51782), (108, 51815), (157, 52016), (160, 52031), (197, 52163), (209, 52226), (210, 52241), (232, 52358), (293, 52559), (295, 52565), (297, 52571), (324, 52682), (326, 52688), (353, 52820), (367, 52880),

Gene: Zepp_36 Start: 25033, Stop: 23855, Start Num: 61

Candidate Starts for Zepp_36:

(29, 25105), (37, 25090), (Start: 61 @25033 has 32 MA's), (113, 24919), (193, 24601), (197, 24586), (206, 24535), (239, 24343), (248, 24307), (272, 24247), (274, 24244), (299, 24169), (310, 24118), (339, 24013), (347, 23956),

Gene: Zion_69 Start: 50318, Stop: 49200, Start Num: 69

Candidate Starts for Zion_69:

(Start: 69 @50318 has 10 MA's), (120, 50183), (131, 50132), (146, 50069), (160, 50018), (170, 49976), (178, 49943), (183, 49922), (199, 49880), (201, 49871), (203, 49862), (209, 49826), (216, 49772), (250, 49589), (320, 49400), (326, 49379), (336, 49349), (348, 49277), (351, 49262), (352, 49253),

Gene: Zuko_80 Start: 60584, Stop: 61708, Start Num: 79

Candidate Starts for Zuko_80:

(11, 60317), (43, 60494), (Start: 79 @60584 has 2 MA's), (106, 60641), (108, 60647), (113, 60662),
(154, 60851), (171, 60917), (175, 60929), (185, 60974), (188, 60983), (197, 61025), (201, 61043),
(202, 61049), (204, 61055), (209, 61082), (215, 61127), (234, 61196), (236, 61208), (242, 61238),
(303, 61415), (307, 61442), (313, 61466), (334, 61541), (341, 61574), (344, 61592), (347, 61610),