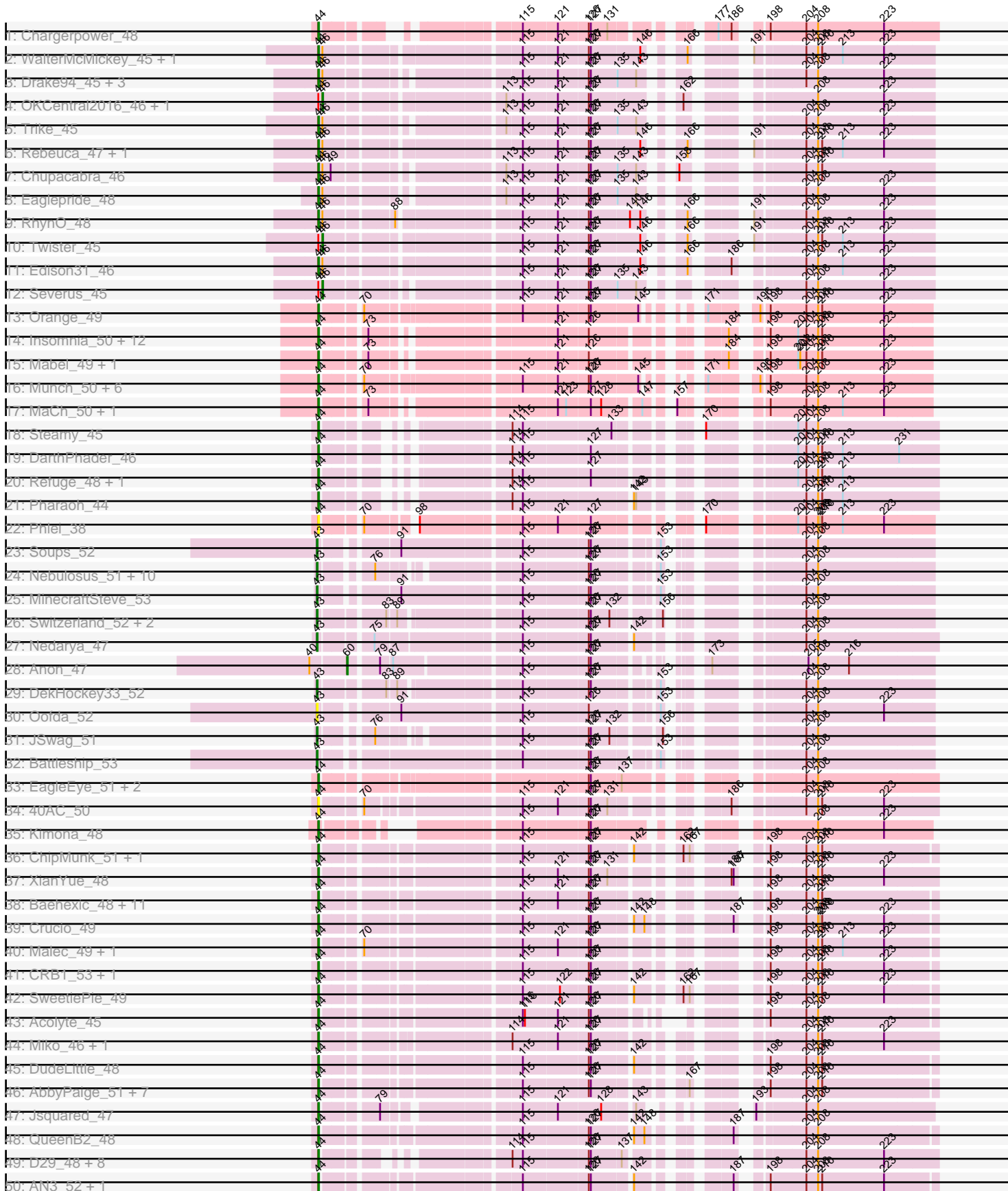
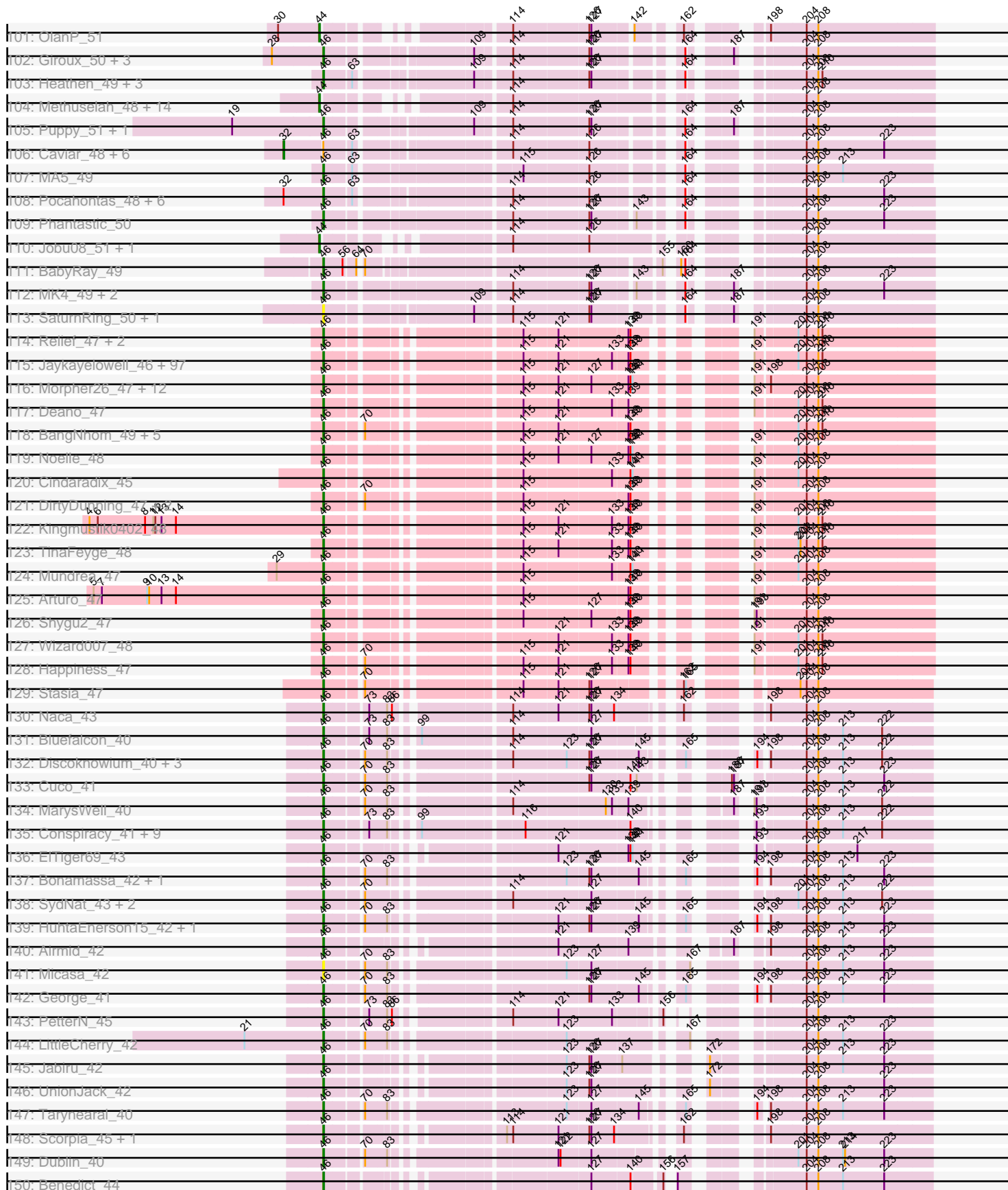


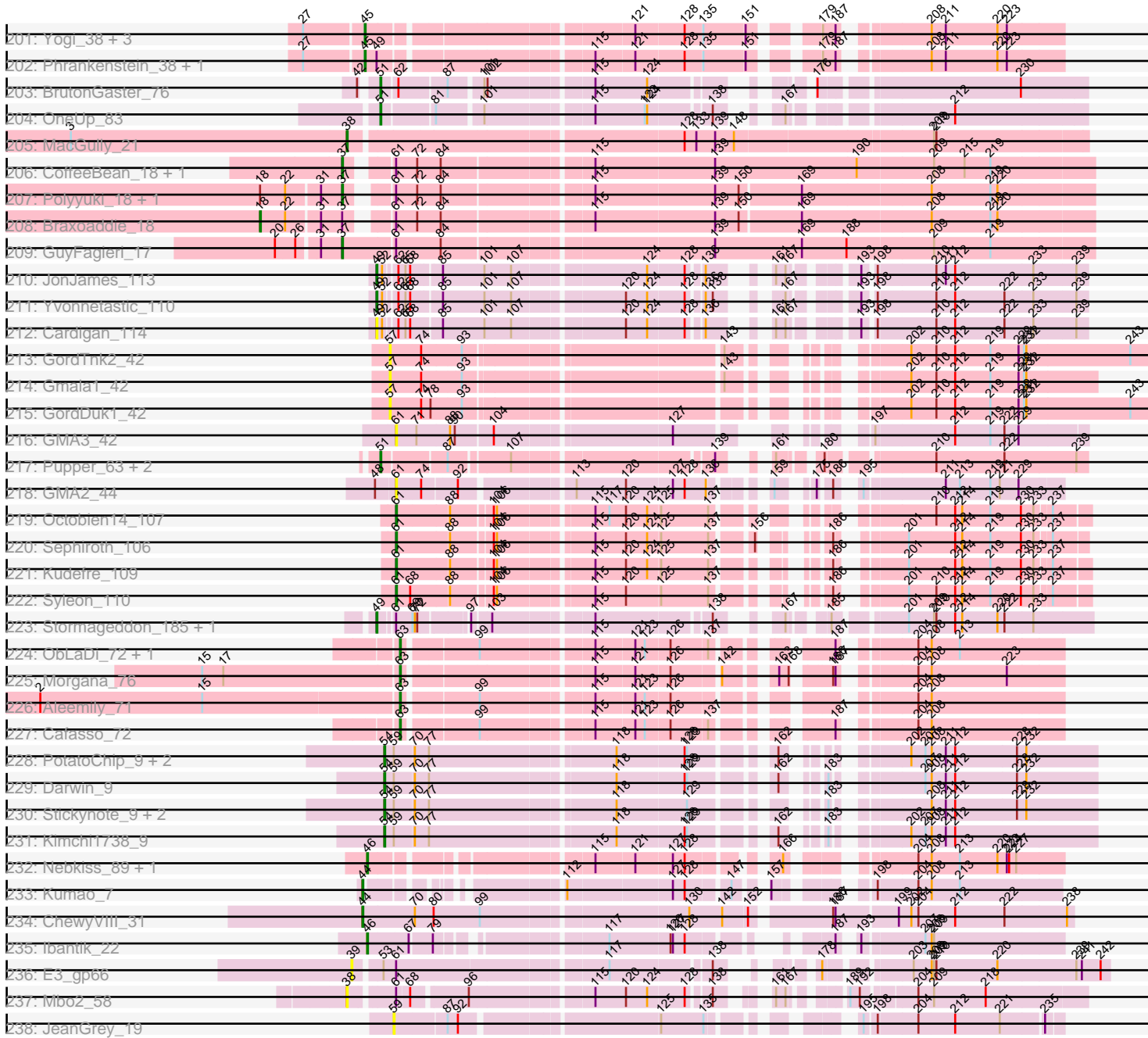
Pham 171087



Pham 171087



Pham 171087



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 171087 Report

This analysis was run 07/09/24 on database version 566.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 171087 has 655 members, 46 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_48
- Track 2 : WalterMcMickey_45, Topanga_45
- Track 3 : Drake94_45, Poompha_46, KittenMittens_44, PeaceMeal1_45
- Track 4 : OKCentral2016_46, Goose_47
- Track 5 : Trike_45
- Track 6 : Rebeuca_47, Kristoff_47
- Track 7 : Chupacabra_46
- Track 8 : Eaglepride_48
- Track 9 : RhynO_48
- Track 10 : Twister_45
- Track 11 : Edison31_46
- Track 12 : Severus_45
- Track 13 : Orange_49
- Track 14 : Insomnia_50, Snape_49, Sham4_49, Et2Brutus_48, Fibonacci_49, Bud_49, Mulciber_49, Petersenfast_48, Jabith_50, Hutc2_49, Ebony_49, Salz_48, TinyTimmy_48
- Track 15 : Mabel_49, Timothy_49
- Track 16 : Munch_50, Lucivia_50, Bowtie_50, Aneem_50, Gilberta_50, Joselito_50, Flaverint_50
- Track 17 : MaCh_50, Bachome_51
- Track 18 : Steamy_45
- Track 19 : DarthPhader_46
- Track 20 : Refuge_48, Zimmer_46
- Track 21 : Pharaoh_44
- Track 22 : Phlei_38
- Track 23 : Soups_52
- Track 24 : Nebulosus_51, KatherineG_53, Anaysia_52, LastResort_51, Epsocamisio_50, ReMo_51, Looper_52, Strosahl_52, Boohoo_52, ShayRa_53, Remus_52
- Track 25 : MinecraftSteve_53
- Track 26 : Switzerland_52, Rosalind_51, Waits_52
- Track 27 : Nedarya_47
- Track 28 : Anon_47

- Track 29 : DekHockey33_52
- Track 30 : Oofda_52
- Track 31 : JSwag_51
- Track 32 : Battleship_53
- Track 33 : EagleEye_51, PainterBoy_50, Lucyedi_50
- Track 34 : 40AC_50
- Track 35 : Kimona_48
- Track 36 : ChipMunk_51, EvilGenius_51
- Track 37 : XianYue_48
- Track 38 : Baehexic_48, Updawg_50, Piro94_49, WideWale_50, Buggy_51, Centaur_50, NaSiaTalie_49, Flare16_49, Drake55_51, MiculUcigas_49, Equemioh13_50, HarryHoudini_50
- Track 39 : Crucio_49
- Track 40 : Malec_49, Larenn_48
- Track 41 : CRB1_53, LadyBird_54
- Track 42 : SweetiePie_49
- Track 43 : Acolyte_45
- Track 44 : Miko_46, Rachaly_48
- Track 45 : DudeLittle_48
- Track 46 : AbbyPaige_51, Agape74_51, Turbido_50, Jerm_51, Dignity_51, LilTurb_50, Smeagan_52, Whabigail7_50
- Track 47 : Jsquared_47
- Track 48 : QueenB2_48
- Track 49 : D29_48, Pomar16_51, Naji_51, DBQu4n_51, Tomathan_51, Kerberos_51, D32_50, Duplo_51, StarStuff_51
- Track 50 : AN3_52, VA6_50
- Track 51 : EZMoney23_47
- Track 52 : Fameo_49, Heffalump_48
- Track 53 : Leogania_49, BiancaTri92_49
- Track 54 : Landor_49, Bactobuster_48
- Track 55 : WeiHuaDA_51
- Track 56 : Deloris_50, BengiVuitton_51
- Track 57 : Dalmatian_50
- Track 58 : Jaan_49
- Track 59 : C3_47, VC3_52, AN9_52, ANI8_52
- Track 60 : BabyBack_48
- Track 61 : SwirlSquare_54
- Track 62 : Trooper_50, TarsusIV_48
- Track 63 : Odin_48
- Track 64 : Benvolio_46, Echild_49
- Track 65 : FiringLine_49, SemperFi_50, QueenBeesly_49
- Track 66 : RedRock_51
- Track 67 : Herbertwm_49
- Track 68 : GaugeLDP_47
- Track 69 : Leviathan_51
- Track 70 : Power_48, Georgie2_50, SnapTap_49
- Track 71 : Journey13_43
- Track 72 : Caraxes_49, Superchunk_48
- Track 73 : Retro23_50
- Track 74 : Loser_51, AnnaL29_51
- Track 75 : Iwokeuplikedis_52
- Track 76 : Changeling_48
- Track 77 : Kalpine_47

- Track 78 : L5_48, Koduck_49
- Track 79 : NothingSpecial_47
- Track 80 : TipsytheTRex_45
- Track 81 : 20ES_52
- Track 82 : KingCyrus_51
- Track 83 : ArcherNM_44
- Track 84 : Che12_51
- Track 85 : First_0051
- Track 86 : Adzzy_51
- Track 87 : Pukovnik_48
- Track 88 : JoshKayV_51
- Track 89 : Colin_49
- Track 90 : NicoleTera_48
- Track 91 : IronMan_49
- Track 92 : Phaded_50
- Track 93 : Ph8s_51
- Track 94 : Trixie_47
- Track 95 : Anselm_50
- Track 96 : MissWhite_48
- Track 97 : Serenity_49
- Track 98 : Anthony_45
- Track 99 : Marius_53, Phranny_53, HaveUMetTed_53, PurpleHaze_52, Pawn_52, Heliosoles_51, Manu_52, PhishRPhriends_50, Kalb97_53, Kalnoky_53, JeppNRM_53, ACFishhook_51, Groupthink_53, Gemma_51, Reba_52
- Track 100 : Malinsilva_54, Wooldri_54, Pembroke_52, SoYo_52, MarQuardt_52, Lilith_53, MadMarie_52, StepMih_52, BreSam8_52, Marie_52, GingkoMaracino_52, Anubis_55, LugYA_55, Tiffany_52, PGHhamlin_54, PotatoSplit_54, JHC117_52, Zetzy_51, Hercules11_52, Microwolf_52, Fernando_52, MuchMore_55, Colbster_52, Grif_52, DaHudson_52, Sabinator_51, Grum1_52, Ollie_52, Phoebe_53, Dieselweasel_53, Taurus_53, GtownJaz_52, Aglet_53, Vix_52, Penny1_53, Stagni_52, MoneyMay_52, EpicPhail_53, Mainiac_52, Cullens_52, P28Green_53, Sabia_52, AugsMagnumOpus_55, Snickers_52, Watson_52, Grub_52, LBerry_53, Beauxregard13_52, JenCasNa_53
- Track 101 : OlanP_51
- Track 102 : Giroux_50, Idleandcovert_50, Pistachio_51, BlueBird_51
- Track 103 : Heathen_49, Fred313_49, HelDan_49, Scout_49
- Track 104 : Methuselah_48, BuzzBuzz_50, Daishi_51, Farber_52, HashRod_53, Misomonster_53, LarryKay_52, AgronaGT15_51, Rummer_51, KADY_52, Louie6_51, Phoxy_52, Spike509_52, Soshari_54, Bxz2_48
- Track 105 : Puppy_51, TNguyen7_50
- Track 106 : Caviar_48, Texage_47, Margo_48, QuinnKiro_47, Veracruz_47, Lambert1_48, Todacoro_48
- Track 107 : MA5_49
- Track 108 : Pocahontas_48, Popcicle_48, ResDef_49, Hookmount_48, Norbert_47, Noella_48, Panamaxus_46
- Track 109 : Phantastic_50
- Track 110 : Jobu08_51, SoilDragon_52
- Track 111 : BabyRay_49
- Track 112 : MK4_49, Isca_48, Rockstar_49
- Track 113 : SaturnRing_50, Bugatti_50
- Track 114 : Relief_47, Lemur_48, Iceman_48
- Track 115 : Jaykayelowell_46, HamSlice_47, Nemo27_48, Wander_48, Blackmoor_48, Phelipe_49, Clarenza_47, Ohfah_49, Annyong_48, Palestino_47,

Thanksgivukkah_47, Baby16_48, LappelDuVide_47, Tinybot_47, Broseidon_48, Abdiel_48, Koreni_47, Skipitt_47, Gadost_48, Nebs_49, Avle17_48, NotAPhaseMom_48, CentreCat_48, Nyxis_48, Funston_47, Morrow_49, Bruiser_47, Iracema64_49, Cocoaberry_48, Houdini22_48, Connomayer_48, Sparxx_49, Pumbaa_48, BubbleTrouble_47, LochMonster_49, Kremtemulon_46, Florean_48, LeoAvram_48, Roosevelt_47, PeterPeter_48, MeeZee_48, Spino_47, Bombshell_48, Pipcraft_46, Dhanush_48, NorthStar_47, Ruin_48, Cintron_47, Alberto7_49, BellusTerra_49, KFPoly_47, Romney_48, Camperdownii_46, Scamp_48, Druantia_48, Eros_48, LittleGuy_48, Holli_47, Eapen_48, Citius_48, Phontbonne_48, Shaka_48, Kamy_48, Kyee_48, OKaNui_48, ICleared_48, Melvin_50, Wilbur_48, Chaph_48, JoongJeon_47, Ulysses_47, Mazhar510_48, TygerBlood_48, Millski_47, TroyPia_49, JetBlade_48, LittleB_48, Caelakin_48, Medusa_48, Phacado_48, Peaches_48, Sabertooth_48, Lunsford_49, Bartimeaus_48, Eurydice_49, Burger_46, Albee_48, Flux_48, Maxo_49, Eris_47, Maverick_48, Eagle_48, Commander_48, TiroTheta9_48, Lorenzo_48, Polymorphads_49, Taquarus_48, YoSam321_48

- Track 116 : Morpher26_47, Cici_47, Xena_46, Datway_47, Perplexer_47, Achebe_46, Badger_46, Bumblebee11_46, AbbysRanger_47, Backyardigan_46, PetiteSangsue_47, Wile_47, Katalie136_47
- Track 117 : Deano_47
- Track 118 : BangNhom_49, LHTSCC_50, Obama12_49, Cerulean_49, ChampagnePapi_50, SheldonCooper_50
- Track 119 : Noelle_48
- Track 120 : Cindaradix_45
- Track 121 : DirtyDunning_47, Phighter1804_48, Kratark_48
- Track 122 : Kingmustik0402_48
- Track 123 : TinaFeyge_48
- Track 124 : Mundrea_47
- Track 125 : Arturo_47
- Track 126 : Shygu2_47
- Track 127 : Wizard007_48
- Track 128 : Happiness_47
- Track 129 : Stasia_47
- Track 130 : Naca_43
- Track 131 : Bluefalcon_40
- Track 132 : Discoknowium_40, Aragog_40, Phlorence_40, Archetta_41
- Track 133 : Cuco_41
- Track 134 : MarysWell_40
- Track 135 : Conspiracy_41, Coog_41, Midas2_41, AgentM_40, Lev2_41, Tiger_40, Jovo_41, PickleBack_41, Theia_39, ForGetIt_41
- Track 136 : EITiger69_43
- Track 137 : Bonamassa_42, Swirley_44
- Track 138 : SydNat_43, Ghouboy_43, Zolita_42
- Track 139 : HuhtaEnerson15_42, Milcery_42
- Track 140 : Airmid_42
- Track 141 : Micasa_42
- Track 142 : George_41
- Track 143 : PetterN_45
- Track 144 : LittleCherry_42
- Track 145 : Jabiru_42
- Track 146 : UnionJack_42
- Track 147 : Tarynearal_40
- Track 148 : Scorpia_45, Chadwick_45
- Track 149 : Dublin_40

- Track 150 : Benedict_44
- Track 151 : Lilbunny_49, Wiks_50, Indra_54, Zaka_51, Jeffabunny_51, Artemis2UCLA_51, Gruunaga_51, WunderPhul_51, ToneTone_48, CloudWang3_51, Helmet_53, Garak_53, Hammer_52, Rifiter_52, Yokurt_51
- Track 152 : Isiphiwo_49, Gladiator_49, Jordennis_51, Newrala_51, Cookiedough_51, SuperAwesome_51, Pmask_51
- Track 153 : Koko_52, Blue7_53
- Track 154 : Dorothea_50, Chartreuse_50, DaVinci_50, SmellyB_51, Kipper29_51, GreedyLawyer_51, McFly_51, JewelBug_52, VohminGhazi_51, Kazan_52, EricB_51
- Track 155 : SuperCallie99_50
- Track 156 : Roksolana_52
- Track 157 : Zulu_51, Tucker_51
- Track 158 : Hexamo_51
- Track 159 : Blinn1_54, Priamo_53
- Track 160 : Candra_51
- Track 161 : Neeharika16_50
- Track 162 : Sheen_49
- Track 163 : EmyBug_48, PackMan_48, Scherzo_49, Fayely_49, Eidsmoe_49, Myxus_49, Ugenie5_46, Conquerage_49, Phonnegut_49, Qobbit_49, Pioneer_49, Phaeder_49, ExplosioNervosa_49, HortumSL17_49, Tubs_49, Spouty_47, Beemo_49, Priya_49, Aliter_49, Alma_49, Catalina_50
- Track 164 : Charm_48, DreamTeam1_48
- Track 165 : BogosyJay_48, Maminiaina_48
- Track 166 : Yecey3_50
- Track 167 : Keziacharles14_49
- Track 168 : Arissanae_48
- Track 169 : Elephantoon_48
- Track 170 : Darrell_50
- Track 171 : Toaka_49
- Track 172 : SheaKeira_48
- Track 173 : LoneWolf_50
- Track 174 : Rahalelujah_49
- Track 175 : Vanisoa_49
- Track 176 : Samora_42
- Track 177 : Vash_40
- Track 178 : Shawty_40
- Track 179 : TG1_37
- Track 180 : Lilbooboo_41
- Track 181 : Sebastisaurus_42
- Track 182 : Rowa_46
- Track 183 : JustBecause_6
- Track 184 : EhyElimayoE_6, Satis_6, Kradal_6
- Track 185 : Nirvana_8
- Track 186 : Frankenweenie_9
- Track 187 : Kela_6
- Track 188 : Alone3_164, LuckySocke_162
- Track 189 : BRock_154
- Track 190 : GiJojo_153
- Track 191 : BobbyDazzler_38, Bryce_38, Natosaleda_38, Nancinator_38, Jester_38, RexFury_38, Rasputin_38, Harlequin_38, Swann_38, Hiro_38, UhSalsa_38, Yoncess_38
- Track 192 : Bradshaw_38, Naiad_38, StCroix_38, Alatin_38
- Track 193 : Partridge_38, Dinger_38

- Track 194 : Lillie_38, Rhodalysa_38, CosmicSans_38, TWAMP_38
- Track 195 : Shuman_38, Espica_38, Belenaria_38
- Track 196 : PhailMary_37
- Track 197 : AppleCloud_36, Krishelle_38
- Track 198 : RGL3_33
- Track 199 : AngryOrchard_36, Takoda_38
- Track 200 : Erik_38
- Track 201 : Yogi_38, RER2_31, Alpacados_37, Bonanza_38
- Track 202 : Phrankenstein_38, Gollum_38
- Track 203 : BrutonGaster_76
- Track 204 : OneUp_83
- Track 205 : MacGully_21
- Track 206 : CoffeeBean_18, Maselop_18
- Track 207 : Polyuyuki_18, Apiary_18
- Track 208 : Braxoaddie_18
- Track 209 : GuyFagieri_17
- Track 210 : JonJames_113
- Track 211 : Yvonnestic_110
- Track 212 : Cardigan_114
- Track 213 : GordTnk2_42
- Track 214 : Gmala1_42
- Track 215 : GordDuk1_42
- Track 216 : GMA3_42
- Track 217 : Pupper_63, CherryTomatoes_64, SCentae_62
- Track 218 : GMA2_44
- Track 219 : Octobien14_107
- Track 220 : Sephiroth_106
- Track 221 : Kudefre_109
- Track 222 : Syleon_110
- Track 223 : Stormageddon_185, RedWattleHog_184
- Track 224 : ObLaDi_72, ModicumRichard_72
- Track 225 : Morgana_76
- Track 226 : Aleemily_71
- Track 227 : Cafasso_72
- Track 228 : PotatoChip_9, Zion_9, PeteyPab_9
- Track 229 : Darwin_9
- Track 230 : Stickynote_9, C3PO_9, Cruella_9
- Track 231 : Kimchi1738_9
- Track 232 : Nebkiss_89, Gaia_90
- Track 233 : Kumao_7
- Track 234 : ChewyVIII_31
- Track 235 : Ibantik_22
- Track 236 : E3_gp66
- Track 237 : Mbo2_58
- Track 238 : JeanGrey_19

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

The start number called the most often in the published annotations is 44, it was called in 296 of the 609 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 20ES_52, 40AC_50, ACFishhook_51, AN3_52, AN9_52, ANI8_52, AbbyPaige_51, Acolyte_45, Adzzy_51, Agape74_51, Aglet_53, AgronaGT15_51, Aliter_49, Alma_49, Aneem_50, AnnaL29_51, Anselm_50, Anubis_55, ArcherNM_44, Arissanae_48, Artemis2UCLA_51, AugsMagnumOpus_55, BabyBack_48, Bachome_51, Bactobuster_48, Baehexic_48, Beauxregard13_52, Beemo_49, BengiVuitton_51, Benvolio_46, BiancaTri92_49, Blinn1_54, Blue7_53, BogosyJay_48, Bowtie_50, BreSam8_52, Bud_49, Buggy_51, BuzzBuzz_50, Bxz2_48, C3_47, CRB1_53, Candra_51, Caraxes_49, Catalina_50, Centaur_50, Changeling_48, Chargerpower_48, Charm_48, Chartreuse_50, Che12_51, ChewyVIII_31, ChipMunk_51, Chupacabra_46, CloudWang3_51, Colbster_52, Colin_49, Conquerage_49, Cookiedough_51, Crucio_49, Cullens_52, D29_48, D32_50, DBQu4n_51, DaHudson_52, DaVinci_50, Daishi_51, Dalmatian_50, Darrell_50, DARTHPhader_46, Deloris_50, Dieselweasel_53, Dignity_51, Dorothea_50, Drake55_51, Drake94_45, DreamTeam1_48, DudeLittle_48, Duplo_51, EZMoney23_47, EagleEye_51, Eaglepride_48, Ebony_49, Echild_49, Edison31_46, Eidsmoe_49, Elephantoon_48, EmyBug_48, EpicPhail_53, Equemioh13_50, EricB_51, Et2Brutus_48, EvilGenius_51, ExplosioNervosa_49, Fameo_49, Farber_52, Fayely_49, Fernando_52, Fibonacci_49, FiringLine_49, First_0051, Flare16_49, Flaverint_50, Garak_53, GaugeLDP_47, Gemma_51, Georgie2_50, Gilberta_50, GingkoMaracino_52, Gladiator_49, GreedyLawyer_51, Grif_52, Groupthink_53, Grub_52, Grum1_52, Gruunaga_51, GtownJaz_52, Hammer_52, HarryHoudini_50, HashRod_53, HaveUMetTed_53, Heffalump_48, Heliosoles_51, Helmet_53, Herbertwm_49, Hercules11_52, Hexamo_51, HortumSL17_49, Hutc2_49, Indra_54, Insomnia_50, IronMan_49, Isiphiwo_49, Iwokeuplikedis_52, JHC117_52, Jaan_49, Jabith_50, Jeffabunny_51, JenCasNa_53, JeppNRM_53, Jerm_51, JewelBug_52, Jobu08_51, Jordennis_51, Joselito_50, JoshKayV_51, Journey13_43, Jsquared_47, KADY_52, Kalb97_53, Kalnoky_53, Kalpine_47, Kazan_52, Kerberos_51, Keziacharles14_49, Kimona_48, KingCyrus_51, Kipper29_51, KittenMittens_44, Koduck_49, Koko_52, Kristoff_47, Kumao_7, L5_48, LBerry_53, LadyBird_54, Landor_49, Larenn_48, LarryKay_52, Leogania_49, Leviathan_51, LilTurb_50, Lilbunny_49, Lilith_53, LoneWolf_50, Loser_51, Louie6_51, Lucivia_50, Lucyedi_50, LugYA_55, MaCh_50, Mabel_49, MadMarie_52, Mainiac_52, Malec_49, Malinsilva_54, Maminiaina_48, Manu_52, MarQuardt_52, Marie_52, Marius_53, McFly_51, Methuselah_48, Microwolf_52, MiculUcigas_49, Miko_46, Misomonster_53, MissWhite_48, MoneyMay_52, MuchMore_55, Mulciber_49, Munch_50, Myxus_49, NaSiaTalie_49, Naji_51, Neeharika16_50, Newrala_51, NicoleTera_48, NothingSpecial_47, Odin_48, OlanP_51, Ollie_52, Orange_49, P28Green_53, PGHhamlin_54, PackMan_48, PainterBoy_50, Pawn_52, PeaceMeal1_45, Pembroke_52, Penny1_53, Petersenfast_48, Ph8s_51, Phaded_50, Phaeder_49, Pharaoh_44, PhishRPhriends_50, Phlei_38, Phoebe_53, Phonnegut_49, Phoxy_52, Phranny_53, Pioneer_49, Piro94_49, Pmask_51, Pomar16_51, Poompha_46, PotatoSplit_54, Power_48, Priamo_53, Priya_49, Pukovnik_48, PurpleHaze_52, Qobbit_49, QueenB2_48, QueenBeesly_49, Rachaly_48, Rahalelujah_49, Reba_52, Rebeuca_47, RedRock_51, Refuge_48, Retro23_50, RhynO_48, Rifter_52, Roksolana_52, Rummer_51, Sabia_52, Sabinator_51, Salz_48, Scherzo_49, SemperFi_50, Serenity_49, Sham4_49, SheaKeira_48, Smeagan_52, SmellyB_51, SnapTap_49, Snape_49, Snickers_52, SoYo_52, SoilDragon_52, Soshari_54, Spike509_52, Spouty_47, Stagni_52, StarStuff_51, Steamy_45, StepMih_52, SuperAwesome_51, SuperCallie99_50, Superchunk_48, SweetiePie_49, SwirlSquare_54, TarsusIV_48, Taurus_53, Tiffany_52, Timothy_49, TinyTimmy_48, TipsytheTRex_45, Toaka_49, Tomathan_51,

ToneTone_48, Topanga_45, Trike_45, Trixie_47, Trooper_50, Tubs_49, Turbido_50, Ugenie5_46, Updawn_50, VA6_50, VC3_52, Vanisoa_49, Vix_52, VohminGhazi_51, WalterMcMickey_45, Watson_52, WeiHuaDA_51, Whabigail7_50, WideWale_50, Wiks_50, Wooldri_54, WunderPhul_51, XianYue_48, Yecey3_50, Yokurt_51, Zaka_51, Zetzy_51, Zimmer_46,

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

- Goose_47, OKCentral2016_46, Severus_45, Twister_45,

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

- AbbysRanger_47, Abdiel_48, Achebe_46, AgentM_40, Airmid_42, Alatin_38, Albee_48, Alberto7_49, Aleemily_71, Alone3_164, Alpacados_37, Anaysia_52, AngryOrchard_36, Anyong_48, Anon_47, Anthony_45, Apiary_18, AppleCloud_36, Aragog_40, Archetta_41, Arturo_47, Avle17_48, BRock_154, Baby16_48, BabyRay_49, Backyardigan_46, Badger_46, BangNhom_49, Bartimeaus_48, Battleship_53, Belenaria_38, BellusTerra_49, Benedict_44, Blackmoor_48, BlueBird_51, Bluefalcon_40, BobbyDazzler_38, Bombshell_48, Bonamassa_42, Bonanza_38, Boohoo_52, Bradshaw_38, Braxoaddie_18, Broseidon_48, Bruiser_47, BrutonGaster_76, Bryce_38, BubbleTrouble_47, Bugatti_50, Bumblebee11_46, Burger_46, C3PO_9, Caelakin_48, Cafasso_72, Camperdownii_46, Cardigan_114, Caviar_48, CentreCat_48, Cerulean_49, Chadwick_45, ChampagnePapi_50, Chaph_48, CherryTomatoes_64, Cici_47, Cindaradix_45, Cintron_47, Citius_48, Clarenza_47, Cocoaberry_48, CoffeeBean_18, Commander_48, Connomayer_48, Conspiracy_41, Coog_41, CosmicSans_38, Cruella_9, Cuco_41, Darwin_9, Datway_47, Deano_47, DekHockey33_52, Dhanush_48, Dinger_38, DirtyDunning_47, Discoknowium_40, Druantia_48, Dublin_40, E3_gp66, Eagle_48, Eapen_48, EhyElimayoE_6, ElTiger69_43, Epsocamisio_50, Erik_38, Eris_47, Eros_48, Espica_38, Eurydice_49, Florean_48, Flux_48, ForGetIt_41, Frankenweenie_9, Fred313_49, Funston_47, GMA2_44, GMA3_42, Gadost_48, Gaia_90, George_41, Ghoulboy_43, GiJojo_153, Giroux_50, Gmala1_42, Gollum_38, GordDuk1_42, GordTnk2_42, GuyFagieri_17, HamSlice_47, Happiness_47, Harlequin_38, Heathen_49, HelDan_49, Hiro_38, Holli_47, Hookmount_48, Houdini22_48, HuhtaEnerson15_42, ICleared_48, Ibantik_22, Iceman_48, Idleandcovert_50, Iracema64_49, Isca_48, JSwag_51, Jabiru_42, Jaykayelowell_46, JeanGrey_19, Jester_38, JetBlade_48, JonJames_113, JoongJeon_47, Jovo_41, JustBecause_6, KFPoly_47, Kampy_48, Katalie136_47, KatherineG_53, Kela_6, Kimchi1738_9, Kingmustik0402_48, Koreni_47, Kradal_6, Kratak_48, Kremtemulon_46, Krishelle_38, Kudrefre_109, Kyee_48, LHTSCC_50, Lambert1_48, LappelDuVide_47, LastResort_51, Lemur_48, LeoAvram_48, Lev2_41, Lilbooboo_41, Lillie_38, LittleB_48, LittleCherry_42, LittleGuy_48, LochMonster_49, Looper_52, Lorenzo_48, LuckySocke_162, Lunsford_49, MA5_49, MK4_49, MacGully_21, Margo_48, MarysWell_40, Maselop_18, Maverick_48, Maxo_49, Mazhar510_48, Mbo2_58, Medusa_48, MeeZee_48, Melvin_50, Micasa_42, Midas2_41, Milcery_42, Millski_47, MinecraftSteve_53, ModicumRichard_72, Morgana_76, Morpher26_47, Morrow_49, Mundrea_47, Naca_43, Naiad_38, Nancinator_38, Natosaleda_38, Nebkiss_89, Nebs_49, Nebulosus_51, Nedarya_47, Nemo27_48, Nirvana_8, Noella_48, Noelle_48, Norbert_47, NorthStar_47, NotAPhaseMom_48, Nyxis_48, OKaNui_48, ObLaDi_72, Obama12_49, Octobien14_107, Ohfah_49, OneUp_83, Oofda_52, Palestino_47, Panamaxus_46, Partridge_38, Peaches_48, Perplexer_47, PeterPeter_48, PeteyPab_9, PetiteSangsue_47, PetterN_45, Phacado_48, PhailMary_37, Phantastic_50, Felipe_49, Phighter1804_48, Phlorence_40, Phontbonne_48, Phrankenstein_38, PickleBack_41, Pipcraft_46, Pistachio_51, Pocahontas_48, Polymorphads_49,

Polyyyuki_18, Popcicle_48, PotatoChip_9, Pumbaa_48, Pupper_63, Puppy_51, QuinnKiro_47, RER2_31, RGL3_33, Rasputin_38, ReMo_51, RedWattleHog_184, Relief_47, Remus_52, ResDef_49, RexFury_38, Rhodalysa_38, Rockstar_49, Romney_48, Roosevelt_47, Rosalind_51, Rowa_46, Ruin_48, SCentae_62, Sabertooth_48, Samora_42, Satis_6, SaturnRing_50, Scamp_48, Scorpia_45, Scout_49, Sebastisaurus_42, Sephiroth_106, Shaka_48, Shawty_40, ShayRa_53, Sheen_49, SheldonCooper_50, Shuman_38, Shygu2_47, Skipitt_47, Soups_52, Sparxx_49, Spino_47, StCroix_38, Stasia_47, Stickynote_9, Stormageddon_185, Strosahl_52, Swann_38, Swirley_44, Switzerland_52, SydNat_43, Syleon_110, TG1_37, TNguyen7_50, TWAMP_38, Takoda_38, Taquarus_48, Tarynearal_40, Texage_47, Thanksgivukkah_47, Theia_39, Tiger_40, TinaFeyge_48, Tinybot_47, TiroTheta9_48, Todacoro_48, TroyPia_49, Tucker_51, TygerBlood_48, UhSalsa_38, Ulysses_47, UnionJack_42, Vash_40, Veracruz_47, Waits_52, Wander_48, Wilbur_48, Wile_47, Wizard007_48, Xena_46, YoSam321_48, Yogi_38, Yoncess_38, Yvonnestic_110, Zion_9, Zolita_42, Zulu_51,

Summary by start number:

Start 18:

- Found in 3 of 655 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 609
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Braxoaddie_18 (CR),

Start 27:

- Found in 35 of 655 (5.3%) of genes in pham
- Manual Annotations of this start: 8 of 609
- Called 22.9% of time when present
- Phage (with cluster) where this start called: Belenaria_38 (CA), CosmicSans_38 (CA), Espica_38 (CA), Lillie_38 (CA), PhailMary_37 (CA), Rhodalysa_38 (CA), Shuman_38 (CA), TWAMP_38 (CA),

Start 32:

- Found in 14 of 655 (2.1%) of genes in pham
- Manual Annotations of this start: 7 of 609
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Caviar_48 (A3), Lambert1_48 (A3), Margo_48 (A3), QuinnKiro_47 (A3), Texage_47 (A3), Todacoro_48 (A3), Veracruz_47 (A3),

Start 35:

- Found in 1 of 655 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 609
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Frankenweenie_9 (BM),

Start 37:

- Found in 6 of 655 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 609
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Apiary_18 (CR), CoffeeBean_18 (CR), GuyFagieri_17 (CR), Maselop_18 (CR), Polyyyuki_18 (CR),

Start 38:

- Found in 2 of 655 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 609
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MacGully_21 (CR), Mbo2_58 (singleton),

Start 39:

- Found in 1 of 655 (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: E3_gp66 (singleton),

Start 41:

- Found in 2 of 655 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 609
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Rowa_46 (BL),

Start 43:

- Found in 21 of 655 (3.2%) of genes in pham
- Manual Annotations of this start: 20 of 609
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_52 (A15), Battleship_53 (A15), Boohoo_52 (A15), DekHockey33_52 (A15), Epsocamisio_50 (A15), JSwag_51 (A15), KatherineG_53 (A15), LastResort_51 (A15), Looper_52 (A15), MinecraftSteve_53 (A15), Nebulosus_51 (A15), Nedarya_47 (A15), Oofda_52 (A15), ReMo_51 (A15), Remus_52 (A15), Rosalind_51 (A15), ShayRa_53 (A15), Soups_52 (A15), Strosahl_52 (A15), Switzerland_52 (A15), Waits_52 (A15),

Start 44:

- Found in 324 of 655 (49.5%) of genes in pham
- Manual Annotations of this start: 296 of 609
- Called 98.8% of time when present
- Phage (with cluster) where this start called: 20ES_52 (A2), 40AC_50 (A17), ACFishhook_51 (A3), AN3_52 (A2), AN9_52 (A2), ANI8_52 (A2), AbbyPaige_51 (A2), Acolyte_45 (A2), Adzzy_51 (A2), Agape74_51 (A2), Aglet_53 (A3), AgronaGT15_51 (A3), Aliter_49 (A9), Alma_49 (A9), Aneem_50 (A11), AnnaL29_51 (A2), Anselm_50 (A2), Anubis_55 (A3), ArcherNM_44 (A2), Arissanae_48 (A9), Artemis2UCLA_51 (A6), AugsMagnumOpus_55 (A3), BabyBack_48 (A2), Bachome_51 (A11), Bactobuster_48 (A2), Baehexic_48 (A2), Beauxregard13_52 (A3), Beemo_49 (A9), BengiVuitton_51 (A2), Benvolio_46 (A2), BiancaTri92_49 (A2), Blinn1_54 (A6), Blue7_53 (A6), BogosyJay_48 (A9), Bowtie_50 (A11), BreSam8_52 (A3), Bud_49 (A11), Buggy_51 (A2), BuzzBuzz_50 (A3), Bxz2_48 (A3), C3_47 (A2), CRB1_53 (A2), Candra_51 (A6), Caraxes_49 (A2), Catalina_50 (A9), Centaur_50 (A2), Changeling_48 (A2), Chargerpower_48 (A), Charm_48 (A9), Chartreuse_50 (A6), Che12_51 (A2), ChewyVIII_31 (singleton), ChipMunk_51 (A2), Chupacabra_46 (A10), CloudWang3_51 (A6), Colbster_52 (A3), Colin_49 (A2), Conquerage_49 (A9), Cookiedough_51 (A6), Crucio_49 (A2), Cullens_52 (A3), D29_48 (A2), D32_50 (A2), DBQu4n_51 (A2), DaHudson_52 (A3), DaVinci_50 (A6), Daishi_51 (A3), Dalmatian_50 (A2), Darrell_50 (A9), DarthPhader_46 (A12), Deloris_50 (A2), Dieselweasel_53 (A3), Dignity_51 (A2), Dorothea_50 (A6), Drake55_51 (A2), Drake94_45 (A10), DreamTeam1_48 (A9), DudeLittle_48 (A2), Duplo_51 (A2),

EZMoney23_47 (A2), EagleEye_51 (A16), Eaglepride_48 (A10), Ebony_49 (A11), Echild_49 (A2), Edison31_46 (A10), Eidsmoe_49 (A9), Elephanto_48 (A9), EmyBug_48 (A9), EpicPhail_53 (A3), Equemioh13_50 (A2), EricB_51 (A6), Et2Brutus_48 (A11), EvilGenius_51 (A2), ExplosioNervosa_49 (A9), Fameo_49 (A2), Farber_52 (A3), Fayely_49 (A9), Fernando_52 (A3), Fibonacci_49 (A11), FiringLine_49 (A2), First_0051 (A2), Flare16_49 (A2), Flaverint_50 (A11), Garak_53 (A6), GaugeLDP_47 (A2), Gemma_51 (A3), Georgie2_50 (A2), Gilberta_50 (A11), GingkoMaracino_52 (A3), Gladiator_49 (A6), GreedyLawyer_51 (A6), Grif_52 (A3), Groupthink_53 (A3), Grub_52 (A3), Grum1_52 (A3), Gruunaga_51 (A6), GtownJaz_52 (A3), Hammer_52 (A6), HarryHoudini_50 (A2), HashRod_53 (A3), HaveUMetTed_53 (A3), Heffalump_48 (A2), Heliosoles_51 (A3), Helmet_53 (A6), Herbertwm_49 (A2), Hercules11_52 (A3), Hexamo_51 (A6), HortumSL17_49 (A9), Hutc2_49 (A11), Indra_54 (A6), Insomnia_50 (A11), IronMan_49 (A2), Isiphiwo_49 (A6), Iwokeuplikedis_52 (A2), JHC117_52 (A3), Jaan_49 (A2), Jabith_50 (A11), Jeffabunny_51 (A6), JenCasNa_53 (A3), JeppNRM_53 (A3), Jerm_51 (A2), JewelBug_52 (A6), Jobu08_51 (A3), Jordennis_51 (A6), Joselito_50 (A11), JoshKayV_51 (A2), Journey13_43 (A2), Jsquared_47 (A2), KADY_52 (A3), Kalb97_53 (A3), Kalnoky_53 (A3), Kalpine_47 (A2), Kazan_52 (A6), Kerberos_51 (A2), Keziacharles14_49 (A9), Kimona_48 (A19), KingCyrus_51 (A2), Kipper29_51 (A6), KittenMittens_44 (A10), Koduck_49 (A2), Koko_52 (A6), Kristoff_47 (A10), Kumao_7 (singleton), L5_48 (A2), LBerry_53 (A3), LadyBird_54 (A2), Landor_49 (A2), Larenn_48 (A2), LarryKay_52 (A3), Leogania_49 (A2), Leviathan_51 (A2), LilTurb_50 (A2), Lilbunny_49 (A6), Lilith_53 (A3), LoneWolf_50 (A9), Loser_51 (A2), Louie6_51 (A3), Lucivia_50 (A11), Lucyedi_50 (A16), LugYA_55 (A3), MaCh_50 (A11), Mabel_49 (A11), MadMarie_52 (A3), Mainiac_52 (A3), Malec_49 (A2), Malinsilva_54 (A3), Maminiaina_48 (A9), Manu_52 (A3), MarQuardt_52 (A3), Marie_52 (A3), Marius_53 (A3), McFly_51 (A6), Methuselah_48 (A3), Microwolf_52 (A3), MiculUcigas_49 (A2), Miko_46 (A2), Misomonster_53 (A3), MissWhite_48 (A2), MoneyMay_52 (A3), MuchMore_55 (A3), Mulciber_49 (A11), Munch_50 (A11), Myxus_49 (A9), NaSiaTalie_49 (A2), Naji_51 (A2), Neeharika16_50 (A6), Newrala_51 (A6), NicoleTera_48 (A2), NothingSpecial_47 (A2), Odin_48 (A2), OlanP_51 (A3), Ollie_52 (A3), Orange_49 (A11), P28Green_53 (A3), PGHhamlin_54 (A3), PackMan_48 (A9), PainterBoy_50 (A16), Pawn_52 (A3), PeaceMeal1_45 (A10), Pembroke_52 (A3), Penny1_53 (A3), Petersenfast_48 (A11), Ph8s_51 (A2), Phaded_50 (A2), Phaeder_49 (A9), Pharaoh_44 (A12), PhishRPhriends_50 (A3), Phlei_38 (A13), Phoebe_53 (A3), Phonnegut_49 (A9), Phoxy_52 (A3), Phranny_53 (A3), Pioneer_49 (A9), Piro94_49 (A2), Pmask_51 (A6), Pomar16_51 (A2), Poompha_46 (A10), PotatoSplit_54 (A3), Power_48 (A2), Priamo_53 (A6), Priya_49 (A9), Pukovnik_48 (A2), PurpleHaze_52 (A3), Qobbit_49 (A9), QueenB2_48 (A2), QueenBeesly_49 (A2), Rachaly_48 (A2), Rahalelujah_49 (A9), Reba_52 (A3), Rebeuca_47 (A10), RedRock_51 (A2), Refuge_48 (A12), Retro23_50 (A2), RhynO_48 (A10), Rifter_52 (A6), Roksolana_52 (A6), Rummer_51 (A3), Sabia_52 (A3), Sabinator_51 (A3), Salz_48 (A11), Scherzo_49 (A9), SemperFi_50 (A2), Serenity_49 (A2), Sham4_49 (A11), SheaKeira_48 (A9), Smeagan_52 (A2), SmellyB_51 (A6), SnapTap_49 (A2), Snape_49 (A11), Snickers_52 (A3), SoYo_52 (A3), SoilDragon_52 (A3), Soshari_54 (A3), Spike509_52 (A3), Spouty_47 (A9), Stagni_52 (A3), StarStuff_51 (A2), Steamy_45 (A12), StepMih_52 (A3), SuperAwesome_51 (A6), SuperCallie99_50 (A6), Superchunk_48 (A2), SweetiePie_49 (A2), SwirlSquare_54 (A2), TarsusIV_48 (A2), Taurus_53 (A3), Tiffany_52 (A3), Timothy_49 (A11), TinyTimmy_48 (A11), TopsytheTRex_45 (A2), Toaka_49 (A9), Tomathan_51 (A2), ToneTone_48 (A6), Topanga_45 (A10), Trike_45 (A10), Trixie_47 (A2), Trooper_50 (A2), Tubs_49 (A9), Turbido_50 (A2), Ugenie5_46 (A9), Updawg_50 (A2), VA6_50 (A2), VC3_52 (A2), Vanisoa_49 (A9), Vix_52 (A3),

VohminGhazi_51 (A6), WalterMcMickey_45 (A10), Watson_52 (A3), WeiHuaDA_51 (A2), Whabigail7_50 (A2), WideWale_50 (A2), Wiks_50 (A6), Wooldri_54 (A3), WunderPhul_51 (A6), XianYue_48 (A2), Yecey3_50 (A9), Yokurt_51 (A6), Zaka_51 (A6), Zetsy_51 (A3), Zimmer_46 (A12),

Start 45:

- Found in 38 of 655 (5.8%) of genes in pham
- Manual Annotations of this start: 28 of 609
- Called 78.9% of time when present
- Phage (with cluster) where this start called: Alatin_38 (CA), Alpacados_37 (CA), AngryOrchard_36 (CA), AppleCloud_36 (CA), BobbyDazzler_38 (CA), Bonanza_38 (CA), Bradshaw_38 (CA), Bryce_38 (CA), Dinger_38 (CA), Erik_38 (CA), Gollum_38 (CA), Harlequin_38 (CA), Hiro_38 (CA), Jester_38 (CA), Krishelle_38 (CA), Naiad_38 (CA), Nancinator_38 (CA), Natosaleda_38 (CA), Partridge_38 (CA), Phrankenstien_38 (CA), RER2_31 (CA), RGL3_33 (CA), Rasputin_38 (CA), RexFury_38 (CA), StCroix_38 (CA), Swann_38 (CA), Takoda_38 (CA), UhSalsa_38 (CA), Yogi_38 (CA), Yoncess_38 (CA),

Start 46:

- Found in 237 of 655 (36.2%) of genes in pham
- Manual Annotations of this start: 208 of 609
- Called 91.1% of time when present
- Phage (with cluster) where this start called: AbbysRanger_47 (A4), Abdiel_48 (A4), Achebe_46 (A4), AgentM_40 (A5), Airmid_42 (A5), Albee_48 (A4), Alberto7_49 (A4), Alone3_164 (BS), Annyong_48 (A4), Anthony_45 (A20), Aragog_40 (A5), Archetta_41 (A5), Arturo_47 (A4), Avle17_48 (A4), BRock_154 (BS), Baby16_48 (A4), BabyRay_49 (A3), Backyardigan_46 (A4), Badger_46 (A4), BangNhom_49 (A4), Bartimeaus_48 (A4), BellusTerra_49 (A4), Benedict_44 (A5), Blackmoor_48 (A4), BlueBird_51 (A3), Bluefalcon_40 (A5), Bombshell_48 (A4), Bonamassa_42 (A5), Broseidon_48 (A4), Bruiser_47 (A4), BubbleTrouble_47 (A4), Bugatti_50 (A3), Bumblebee11_46 (A4), Burger_46 (A4), Caelakin_48 (A4), Camperdownii_46 (A4), CentreCat_48 (A4), Cerulean_49 (A4), Chadwick_45 (A5), ChampagnePapi_50 (A4), Chaph_48 (A4), Cici_47 (A4), Cindaradix_45 (A4), Cintron_47 (A4), Citius_48 (A4), Clarenza_47 (A4), Cocoaberry_48 (A4), Commander_48 (A4), Connomayer_48 (A4), Conspiracy_41 (A5), Coog_41 (A5), Cuco_41 (A5), Datway_47 (A4), Deano_47 (A4), Dhanush_48 (A4), DirtyDunning_47 (A4), Discoknowium_40 (A5), Druantia_48 (A4), Dublin_40 (A5), Eagle_48 (A4), Eapen_48 (A4), ElTiger69_43 (A5), Eris_47 (A4), Eros_48 (A4), Eurydice_49 (A4), Florean_48 (A4), Flux_48 (A4), ForGetIt_41 (A5), Fred313_49 (A3), Funston_47 (A4), Gadost_48 (A4), Gaia_90 (X), George_41 (A5), Ghoulyboy_43 (A5), GiJojo_153 (BS), Giroux_50 (A3), Goose_47 (A10), HamSlice_47 (A4), Happiness_47 (A4), Heathen_49 (A3), HelDan_49 (A3), Holli_47 (A4), Hookmount_48 (A3), Houdini22_48 (A4), HuhtaEnerson15_42 (A5), ICleared_48 (A4), Ibantik_22 (singleton), Iceman_48 (A4), Idleandcovert_50 (A3), Iracema64_49 (A4), Isca_48 (A3), Jabiru_42 (A5), Jaykayelowell_46 (A4), JetBlade_48 (A4), JoongJeon_47 (A4), Jovo_41 (A5), KFPoly_47 (A4), Kampy_48 (A4), Katalie136_47 (A4), Kingmustik0402_48 (A4), Koreni_47 (A4), Kratak_48 (A4), Kremtemulon_46 (A4), Kyee_48 (A4), LHTSCC_50 (A4), LappelDuVide_47 (A4), Lemur_48 (A4), LeoAvram_48 (A4), Lev2_41 (A5), Lilbooboo_41 (BB1), LittleB_48 (A4), LittleCherry_42 (A5), LittleGuy_48 (A4), LochMonster_49 (A4), Lorenzo_48 (A4), LuckySocke_162 (BS), Lunsford_49 (A4), MA5_49 (A3), MK4_49 (A3), MarysWell_40 (A5), Maverick_48 (A4), Maxo_49 (A4), Mazhar510_48 (A4), Medusa_48 (A4), MeeZee_48 (A4), Melvin_50 (A4), Micasa_42 (A5), Midas2_41 (A5), Milcery_42 (A5), Millski_47 (A4), Morpher26_47 (A4), Morrow_49 (A4), Mundrea_47 (A4), Naca_43

(A5), Nebkiss_89 (X), Nebs_49 (A4), Nemo27_48 (A4), Noella_48 (A3), Noelle_48 (A4), Norbert_47 (A3), NorthStar_47 (A4), NotAPhaseMom_48 (A4), Nyxis_48 (A4), OKCentral2016_46 (A10), OKaNui_48 (A4), Obama12_49 (A4), Ohfah_49 (A4), Palestino_47 (A4), Panamaxus_46 (A3), Peaches_48 (A4), Perplexer_47 (A4), PeterPeter_48 (A4), PetiteSangsue_47 (A4), PetterN_45 (A5), Phacado_48 (A4), Phantastic_50 (A3), Felipe_49 (A4), Phighter1804_48 (A4), Phlorence_40 (A5), Phontbonne_48 (A4), PickleBack_41 (A5), Pipcraft_46 (A4), Pistachio_51 (A3), Pocahontas_48 (A3), Polymorphads_49 (A4), Popcicle_48 (A3), Pumbaa_48 (A4), Puppy_51 (A3), Relief_47 (A4), ResDef_49 (A3), Rockstar_49 (A3), Romney_48 (A4), Roosevelt_47 (A4), Ruin_48 (A4), Sabertooth_48 (A4), Samora_42 (BB1), SaturnRing_50 (A3), Scamp_48 (A4), Scorpia_45 (A5), Scout_49 (A3), Sebastisaurus_42 (BB2), Severus_45 (A10), Shaka_48 (A4), Shawty_40 (BB1), Sheen_49 (A7), SheldonCooper_50 (A4), Shygu2_47 (A4), Skipitt_47 (A4), Sparxx_49 (A4), Spino_47 (A4), Stasia_47 (A4), Swirley_44 (A5), SydNat_43 (A5), TG1_37 (BB1), TNguyen7_50 (A3), Taquarus_48 (A4), Tarynearal_40 (A5), Thanksgivukkah_47 (A4), Theia_39 (A5), Tiger_40 (A5), TinaFeyge_48 (A4), Tinybot_47 (A4), TiroTheta9_48 (A4), TroyPia_49 (A4), Twister_45 (A10), TygerBlood_48 (A4), Ulysses_47 (A4), UnionJack_42 (A5), Vash_40 (BB1), Wander_48 (A4), Wilbur_48 (A4), Wile_47 (A4), Wizard007_48 (A4), Xena_46 (A4), YoSam321_48 (A4), Zolita_42 (A5),

Start 49:

- Found in 9 of 655 (1.4%) of genes in pham
- Manual Annotations of this start: 4 of 609
- Called 55.6% of time when present
- Phage (with cluster) where this start called: Cardigan_114 (DD), JonJames_113 (DD), RedWattleHog_184 (DX), Stormageddon_185 (DX), Yvonnestic_110 (DD),

Start 51:

- Found in 5 of 655 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 609
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_76 (CQ2), CherryTomatoes_64 (DO), OneUp_83 (CQ2), Pupper_63 (DO), SCentae_62 (DO),

Start 52:

- Found in 10 of 655 (1.5%) of genes in pham
- Manual Annotations of this start: 5 of 609
- Called 60.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_6 (BM), JustBecause_6 (BM), Kela_6 (BM), Kradal_6 (BM), Nirvana_8 (BM), Satis_6 (BM),

Start 54:

- Found in 8 of 655 (1.2%) of genes in pham
- Manual Annotations of this start: 8 of 609
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_9 (EN), Cruella_9 (EN), Darwin_9 (EN), Kimchi1738_9 (EN), PeteyPab_9 (EN), PotatoChip_9 (EN), Stickynote_9 (EN), Zion_9 (EN),

Start 55:

- Found in 2 of 655 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 609

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tucker_51 (A6), Zulu_51 (A6),

Start 57:

- Found in 3 of 655 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_42 (DF1), GordDuk1_42 (DF1), GordTnk2_42 (DF1),

Start 59:

- Found in 9 of 655 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: JeanGrey_19 (singleton),

Start 60:

- Found in 4 of 655 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 609
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Anon_47 (A15),

Start 61:

- Found in 16 of 655 (2.4%) of genes in pham
- Manual Annotations of this start: 4 of 609
- Called 37.5% of time when present
- Phage (with cluster) where this start called: GMA2_44 (DS), GMA3_42 (DF2), Kudrefre_109 (DU1), Octobien14_107 (DU1), Sephiroth_106 (DU1), Syleon_110 (DU1),

Start 63:

- Found in 24 of 655 (3.7%) of genes in pham
- Manual Annotations of this start: 4 of 609
- Called 20.8% of time when present
- Phage (with cluster) where this start called: Aleemily_71 (DZ), Cafasso_72 (DZ), ModicumRichard_72 (DZ), Morgana_76 (DZ), ObLaDi_72 (DZ),

Summary by clusters:

There are 36 clusters represented in this pham: DO, singleton, DX, BL, BM, DD, DZ, X, BS, DS, A15, A17, A16, A11, A10, A13, A12, DF1, DF2, A3, A2, A5, A4, A7, A6, A9, DU1, BB2, BB1, A, EN, CA, CQ2, CR, A20, A19,

Info for manual annotations of cluster A:

- Start number 44 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A10:

- Start number 44 was manually annotated 13 times for cluster A10.
- Start number 46 was manually annotated 4 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 44 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 44 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A15:

- Start number 43 was manually annotated 20 times for cluster A15.
- Start number 60 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:

- Start number 44 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A19:

- Start number 44 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 44 was manually annotated 99 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 46 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 32 was manually annotated 7 times for cluster A3.
- Start number 44 was manually annotated 80 times for cluster A3.
- Start number 46 was manually annotated 21 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 46 was manually annotated 132 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 46 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 44 was manually annotated 36 times for cluster A6.
- Start number 55 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 46 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:

- Start number 44 was manually annotated 33 times for cluster A9.

Info for manual annotations of cluster BB1:

- Start number 46 was manually annotated 4 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 46 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BL:

- Start number 41 was manually annotated 1 time for cluster BL.

Info for manual annotations of cluster BM:

- Start number 35 was manually annotated 1 time for cluster BM.

- Start number 52 was manually annotated 5 times for cluster BM.

Info for manual annotations of cluster BS:

- Start number 46 was manually annotated 4 times for cluster BS.

Info for manual annotations of cluster CA:

- Start number 27 was manually annotated 8 times for cluster CA.
- Start number 45 was manually annotated 28 times for cluster CA.

Info for manual annotations of cluster CQ2:

- Start number 51 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR:

- Start number 18 was manually annotated 1 time for cluster CR.
- Start number 37 was manually annotated 5 times for cluster CR.
- Start number 38 was manually annotated 1 time for cluster CR.

Info for manual annotations of cluster DD:

- Start number 49 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DO:

- Start number 51 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DU1:

- Start number 61 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DX:

- Start number 49 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster DZ:

- Start number 63 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster EN:

- Start number 54 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster X:

- Start number 46 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 20ES_52 Start: 33612, Stop: 32884, Start Num: 44

Candidate Starts for 20ES_52:

(Start: 44 @33612 has 296 MA's), (115, 33375), (126, 33285), (127, 33282), (204, 33066), (208, 33051), (210, 33045), (223, 32955),

Gene: 40AC_50 Start: 34380, Stop: 33652, Start Num: 44

Candidate Starts for 40AC_50:

(Start: 44 @34380 has 296 MA's), (70, 34335), (115, 34149), (121, 34101), (126, 34059), (127, 34056), (131, 34032), (186, 33915), (204, 33840), (208, 33825), (210, 33819), (223, 33729),

Gene: ACFishhook_51 Start: 33169, Stop: 32471, Start Num: 44

Candidate Starts for ACFishhook_51:

(30, 33229), (Start: 44 @33169 has 296 MA's), (114, 32977), (126, 32872), (127, 32869), (142, 32818), (198, 32701), (204, 32653), (208, 32638),

Gene: AN3_52 Start: 33983, Stop: 33255, Start Num: 44

Candidate Starts for AN3_52:

(Start: 44 @33983 has 296 MA's), (115, 33746), (126, 33656), (127, 33653), (142, 33602), (187, 33509), (198, 33485), (204, 33437), (208, 33422), (210, 33416), (223, 33326),

Gene: AN9_52 Start: 33241, Stop: 32555, Start Num: 44

Candidate Starts for AN9_52:

(Start: 44 @33241 has 296 MA's), (115, 33031), (127, 32938), (128, 32923), (187, 32815), (198, 32791), (201, 32755), (204, 32743), (208, 32728), (213, 32692), (223, 32632),

Gene: ANI8_52 Start: 33241, Stop: 32555, Start Num: 44

Candidate Starts for ANI8_52:

(Start: 44 @33241 has 296 MA's), (115, 33031), (127, 32938), (128, 32923), (187, 32815), (198, 32791), (201, 32755), (204, 32743), (208, 32728), (213, 32692), (223, 32632),

Gene: AbbyPaige_51 Start: 33549, Stop: 32824, Start Num: 44

Candidate Starts for AbbyPaige_51:

(Start: 44 @33549 has 296 MA's), (115, 33315), (126, 33225), (127, 33222), (167, 33120), (198, 33054), (204, 33006), (208, 32991), (210, 32985),

Gene: AbbysRanger_47 Start: 32771, Stop: 32052, Start Num: 46

Candidate Starts for AbbysRanger_47:

(Start: 46 @32771 has 208 MA's), (115, 32543), (121, 32495), (127, 32450), (139, 32399), (140, 32396), (141, 32393), (191, 32300), (198, 32282), (204, 32234), (208, 32219),

Gene: Abdiel_48 Start: 32782, Stop: 32063, Start Num: 46

Candidate Starts for Abdiel_48:

(Start: 46 @32782 has 208 MA's), (115, 32554), (121, 32506), (133, 32431), (139, 32410), (140, 32407), (191, 32311), (201, 32257), (204, 32245), (208, 32230), (210, 32224),

Gene: Achebe_46 Start: 32754, Stop: 32035, Start Num: 46

Candidate Starts for Achebe_46:

(Start: 46 @32754 has 208 MA's), (115, 32526), (121, 32478), (127, 32433), (139, 32382), (140, 32379), (141, 32376), (191, 32283), (198, 32265), (204, 32217), (208, 32202),

Gene: Acolyte_45 Start: 32492, Stop: 31791, Start Num: 44

Candidate Starts for Acolyte_45:

(Start: 44 @32492 has 296 MA's), (115, 32255), (116, 32252), (121, 32207), (126, 32165), (127, 32162), (198, 32021), (204, 31973), (208, 31958),

Gene: Adzzy_51 Start: 31979, Stop: 31275, Start Num: 44

Candidate Starts for Adzzy_51:

(Start: 44 @31979 has 296 MA's), (121, 31724), (126, 31682), (127, 31679), (133, 31649), (137, 31637), (147, 31616), (166, 31580), (170, 31571), (204, 31463), (208, 31448), (213, 31412), (223, 31352),

Gene: Agape74_51 Start: 33534, Stop: 32809, Start Num: 44

Candidate Starts for Agape74_51:

(Start: 44 @33534 has 296 MA's), (115, 33300), (126, 33210), (127, 33207), (167, 33105), (198, 33039), (204, 32991), (208, 32976), (210, 32970),

Gene: AgentM_40 Start: 31476, Stop: 30757, Start Num: 46

Candidate Starts for AgentM_40:

(Start: 46 @31476 has 208 MA's), (73, 31422), (83, 31398), (99, 31374), (116, 31242), (140, 31098), (193, 30999), (204, 30936), (208, 30921), (213, 30885), (222, 30828),

Gene: Aglet_53 Start: 33207, Stop: 32500, Start Num: 44

Candidate Starts for Aglet_53:

(Start: 44 @33207 has 296 MA's), (114, 33015), (126, 32910), (133, 32877), (204, 32682), (208, 32667),

Gene: AgronaGT15_51 Start: 33058, Stop: 32351, Start Num: 44

Candidate Starts for AgronaGT15_51:

(Start: 44 @33058 has 296 MA's), (114, 32866), (204, 32533), (208, 32518),

Gene: Airmid_42 Start: 31520, Stop: 30816, Start Num: 46

Candidate Starts for Airmid_42:

(Start: 46 @31520 has 208 MA's), (121, 31256), (139, 31160), (187, 31067), (198, 31043), (204, 30995), (208, 30980), (213, 30944), (223, 30884),

Gene: Alatin_38 Start: 29237, Stop: 28476, Start Num: 45

Candidate Starts for Alatin_38:

(Start: 27 @29309 has 8 MA's), (Start: 45 @29237 has 28 MA's), (115, 28985), (121, 28937), (128, 28877), (135, 28856), (143, 28829), (151, 28805), (179, 28745), (187, 28730), (208, 28643), (211, 28625), (220, 28559), (223, 28547),

Gene: Albee_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Albee_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Alberto7_49 Start: 33118, Stop: 32399, Start Num: 46

Candidate Starts for Alberto7_49:

(Start: 46 @33118 has 208 MA's), (115, 32890), (121, 32842), (133, 32767), (139, 32746), (140, 32743), (191, 32647), (201, 32593), (204, 32581), (208, 32566), (210, 32560),

Gene: Aleemily_71 Start: 46840, Stop: 47544, Start Num: 63

Candidate Starts for Aleemily_71:

(2, 46390), (15, 46597), (Start: 63 @46840 has 4 MA's), (99, 46924), (115, 47053), (121, 47101), (123, 47113), (126, 47143), (204, 47362), (208, 47377),

Gene: Aliter_49 Start: 32952, Stop: 32248, Start Num: 44

Candidate Starts for Aliter_49:

(Start: 44 @32952 has 296 MA's), (70, 32907), (72, 32904), (73, 32901), (114, 32760), (115, 32745), (121, 32697), (126, 32655), (204, 32436), (208, 32421),

Gene: Alma_49 Start: 33078, Stop: 32374, Start Num: 44

Candidate Starts for Alma_49:

(Start: 44 @33078 has 296 MA's), (70, 33033), (72, 33030), (73, 33027), (114, 32886), (115, 32871), (121, 32823), (126, 32781), (204, 32562), (208, 32547),

Gene: Alone3_164 Start: 87184, Stop: 87894, Start Num: 46

Candidate Starts for Alone3_164:

(Start: 46 @87184 has 208 MA's), (58, 87214), (70, 87235), (105, 87304), (108, 87346), (119, 87445), (120, 87454), (123, 87478), (130, 87532), (143, 87565), (202, 87706), (205, 87718), (209, 87733), (213, 87766), (226, 87835),

Gene: Alpacados_37 Start: 29142, Stop: 28381, Start Num: 45

Candidate Starts for Alpacados_37:

(Start: 27 @29214 has 8 MA's), (Start: 45 @29142 has 28 MA's), (121, 28842), (128, 28782), (135, 28761), (151, 28710), (179, 28650), (187, 28635), (208, 28548), (211, 28530), (220, 28464), (223, 28452),

Gene: Anaysia_52 Start: 31787, Stop: 31089, Start Num: 43

Candidate Starts for Anaysia_52:

(Start: 43 @31787 has 20 MA's), (76, 31730), (115, 31571), (126, 31481), (127, 31478), (153, 31400), (204, 31271), (208, 31256),

Gene: Aneem_50 Start: 32638, Stop: 31919, Start Num: 44

Candidate Starts for Aneem_50:

(Start: 44 @32638 has 296 MA's), (70, 32593), (115, 32401), (121, 32353), (126, 32311), (127, 32308), (145, 32242), (171, 32206), (196, 32155), (198, 32146), (204, 32098), (208, 32083), (223, 31987),

Gene: AngryOrchard_36 Start: 29101, Stop: 28340, Start Num: 45

Candidate Starts for AngryOrchard_36:

(Start: 27 @29173 has 8 MA's), (Start: 45 @29101 has 28 MA's), (115, 28849), (121, 28801), (128, 28741), (135, 28720), (143, 28693), (151, 28669), (179, 28609), (187, 28594), (208, 28507), (211, 28489), (223, 28411),

Gene: AnnaL29_51 Start: 34084, Stop: 33350, Start Num: 44

Candidate Starts for AnnaL29_51:

(Start: 44 @34084 has 296 MA's), (70, 34039), (115, 33847), (121, 33799), (126, 33757), (142, 33703), (167, 33652), (204, 33538), (208, 33523), (210, 33517), (213, 33487), (224, 33424),

Gene: Annyong_48 Start: 32826, Stop: 32107, Start Num: 46

Candidate Starts for Annyong_48:

(Start: 46 @32826 has 208 MA's), (115, 32598), (121, 32550), (133, 32475), (139, 32454), (140, 32451), (191, 32355), (201, 32301), (204, 32289), (208, 32274), (210, 32268),

Gene: Anon_47 Start: 30759, Stop: 30076, Start Num: 60

Candidate Starts for Anon_47:

(40, 30804), (Start: 60 @30759 has 1 MA's), (79, 30726), (87, 30711), (115, 30549), (126, 30459), (127, 30456), (173, 30357), (205, 30255), (208, 30243), (216, 30198),

Gene: Anselm_50 Start: 33465, Stop: 32740, Start Num: 44

Candidate Starts for Anselm_50:

(Start: 44 @33465 has 296 MA's), (115, 33231), (126, 33141), (127, 33138), (142, 33087), (167, 33036), (198, 32970), (204, 32922), (208, 32907), (210, 32901), (213, 32871),

Gene: Anthony_45 Start: 30926, Stop: 30207, Start Num: 46

Candidate Starts for Anthony_45:

(Start: 46 @30926 has 208 MA's), (88, 30842), (126, 30596), (127, 30593), (128, 30578), (137, 30551), (154, 30518), (191, 30461), (198, 30443), (202, 30404), (204, 30395), (208, 30380), (213, 30344), (223, 30284),

Gene: Anubis_55 Start: 33093, Stop: 32386, Start Num: 44

Candidate Starts for Anubis_55:

(Start: 44 @33093 has 296 MA's), (114, 32901), (126, 32796), (133, 32763), (204, 32568), (208, 32553),

Gene: Apiary_18 Start: 8904, Stop: 9791, Start Num: 37

Candidate Starts for Apiary_18:

(Start: 18 @8808 has 1 MA's), (22, 8838), (31, 8877), (Start: 37 @8904 has 5 MA's), (Start: 61 @8943 has 4 MA's), (72, 8970), (84, 9000), (115, 9174), (139, 9324), (150, 9354), (169, 9429), (208, 9588), (219, 9663), (220, 9672),

Gene: AppleCloud_36 Start: 29191, Stop: 28430, Start Num: 45

Candidate Starts for AppleCloud_36:

(Start: 45 @29191 has 28 MA's), (115, 28939), (121, 28891), (128, 28831), (135, 28810), (151, 28759), (179, 28699), (187, 28684), (208, 28597), (211, 28579),

Gene: Aragog_40 Start: 31500, Stop: 30787, Start Num: 46

Candidate Starts for Aragog_40:

(Start: 46 @31500 has 208 MA's), (70, 31452), (83, 31422), (114, 31284), (123, 31209), (126, 31179), (127, 31176), (145, 31110), (165, 31074), (194, 31023), (198, 31014), (204, 30966), (208, 30951), (213, 30915), (222, 30858),

Gene: ArcherNM_44 Start: 33078, Stop: 32347, Start Num: 44

Candidate Starts for ArcherNM_44:

(Start: 44 @33078 has 296 MA's), (115, 32844), (126, 32754), (127, 32751), (182, 32616), (204, 32535), (208, 32520), (210, 32514), (213, 32484), (224, 32421),

Gene: Archetta_41 Start: 32030, Stop: 31317, Start Num: 46

Candidate Starts for Archetta_41:

(Start: 46 @32030 has 208 MA's), (70, 31982), (83, 31952), (114, 31814), (123, 31739), (126, 31709), (127, 31706), (145, 31640), (165, 31604), (194, 31553), (198, 31544), (204, 31496), (208, 31481), (213, 31445), (222, 31388),

Gene: Arissanae_48 Start: 33608, Stop: 32907, Start Num: 44

Candidate Starts for Arissanae_48:

(Start: 44 @33608 has 296 MA's), (114, 33413), (115, 33398), (126, 33308), (131, 33281), (147, 33242), (156, 33221), (186, 33164), (198, 33137), (204, 33089), (208, 33074), (217, 33017),

Gene: Artemis2UCLA_51 Start: 31770, Stop: 31042, Start Num: 44

Candidate Starts for Artemis2UCLA_51:

(Start: 44 @31770 has 296 MA's), (70, 31725), (115, 31533), (121, 31485), (126, 31443), (127, 31440), (145, 31374), (171, 31338), (196, 31287), (198, 31278), (204, 31230), (208, 31215), (224, 31116),

Gene: Arturo_47 Start: 33061, Stop: 32342, Start Num: 46

Candidate Starts for Arturo_47:

(5, 33391), (7, 33379), (9, 33313), (10, 33310), (13, 33292), (14, 33271), (Start: 46 @33061 has 208 MA's), (115, 32833), (139, 32689), (140, 32686), (191, 32590), (204, 32524), (208, 32509),

Gene: AugsMagnumOpus_55 Start: 33198, Stop: 32491, Start Num: 44

Candidate Starts for AugsMagnumOpus_55:

(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: Avle17_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Avle17_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: BRock_154 Start: 82002, Stop: 82691, Start Num: 46

Candidate Starts for BRock_154:

(Start: 46 @82002 has 208 MA's), (70, 82053), (72, 82056), (100, 82104), (105, 82122), (108, 82164), (112, 82200), (123, 82296), (130, 82350), (143, 82383), (148, 82395), (187, 82440), (202, 82503), (209, 82530), (211, 82545), (213, 82563), (224, 82626), (230, 82641),

Gene: Baby16_48 Start: 32792, Stop: 32073, Start Num: 46

Candidate Starts for Baby16_48:

(Start: 46 @32792 has 208 MA's), (115, 32564), (121, 32516), (133, 32441), (139, 32420), (140, 32417), (191, 32321), (201, 32267), (204, 32255), (208, 32240), (210, 32234),

Gene: BabyBack_48 Start: 33801, Stop: 33064, Start Num: 44

Candidate Starts for BabyBack_48:

(Start: 44 @33801 has 296 MA's), (115, 33561), (121, 33513), (126, 33471), (127, 33468), (187, 33324), (198, 33300), (202, 33261), (204, 33252), (208, 33237), (210, 33231),

Gene: BabyRay_49 Start: 32984, Stop: 32262, Start Num: 46

Candidate Starts for BabyRay_49:

(Start: 46 @32984 has 208 MA's), (56, 32957), (64, 32942), (70, 32939), (155, 32576), (160, 32567), (164, 32561), (204, 32444), (208, 32429),

Gene: Bachome_51 Start: 32621, Stop: 31908, Start Num: 44

Candidate Starts for Bachome_51:

(Start: 44 @32621 has 296 MA's), (73, 32570), (121, 32348), (123, 32336), (127, 32303), (128, 32288), (147, 32240), (157, 32216), (198, 32135), (204, 32087), (208, 32072), (213, 32036), (223, 31976),

Gene: Backyardigan_46 Start: 32787, Stop: 32068, Start Num: 46

Candidate Starts for Backyardigan_46:

(Start: 46 @32787 has 208 MA's), (115, 32559), (121, 32511), (127, 32466), (139, 32415), (140, 32412), (141, 32409), (191, 32316), (198, 32298), (204, 32250), (208, 32235),

Gene: Bactobuster_48 Start: 34023, Stop: 33298, Start Num: 44

Candidate Starts for Bactobuster_48:

(Start: 44 @34023 has 296 MA's), (70, 33978), (115, 33789), (121, 33741), (126, 33699), (127, 33696), (198, 33528), (201, 33492), (204, 33480), (208, 33465),

Gene: Badger_46 Start: 32755, Stop: 32036, Start Num: 46

Candidate Starts for Badger_46:

(Start: 46 @32755 has 208 MA's), (115, 32527), (121, 32479), (127, 32434), (139, 32383), (140, 32380), (141, 32377), (191, 32284), (198, 32266), (204, 32218), (208, 32203),

Gene: Baehexic_48 Start: 33242, Stop: 32514, Start Num: 44

Candidate Starts for Baehexic_48:

(Start: 44 @33242 has 296 MA's), (115, 33005), (121, 32957), (126, 32915), (127, 32912), (198, 32744), (204, 32696), (208, 32681), (210, 32675),

Gene: BangNhom_49 Start: 33203, Stop: 32484, Start Num: 46

Candidate Starts for BangNhom_49:

(Start: 46 @33203 has 208 MA's), (70, 33158), (115, 32975), (121, 32927), (139, 32831), (140, 32828), (201, 32678), (204, 32666), (208, 32651), (210, 32645),

Gene: Bartimeaus_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Bartimeaus_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Battleship_53 Start: 31798, Stop: 31070, Start Num: 43

Candidate Starts for Battleship_53:

(Start: 43 @31798 has 20 MA's), (115, 31552), (126, 31462), (127, 31459), (153, 31381), (204, 31252), (208, 31237),

Gene: Beauxregard13_52 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for Beauxregard13_52:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: Beemo_49 Start: 33074, Stop: 32370, Start Num: 44

Candidate Starts for Beemo_49:

(Start: 44 @33074 has 296 MA's), (70, 33029), (72, 33026), (73, 33023), (114, 32882), (115, 32867), (121, 32819), (126, 32777), (204, 32558), (208, 32543),

Gene: Belenaria_38 Start: 29243, Stop: 28410, Start Num: 27

Candidate Starts for Belenaria_38:

(Start: 27 @29243 has 8 MA's), (Start: 45 @29171 has 28 MA's), (115, 28919), (121, 28871), (128, 28811), (135, 28790), (151, 28739), (179, 28679), (187, 28664), (208, 28577), (211, 28559), (220, 28493), (223, 28481),

Gene: BellusTerra_49 Start: 32782, Stop: 32063, Start Num: 46

Candidate Starts for BellusTerra_49:

(Start: 46 @32782 has 208 MA's), (115, 32554), (121, 32506), (133, 32431), (139, 32410), (140, 32407), (191, 32311), (201, 32257), (204, 32245), (208, 32230), (210, 32224),

Gene: Benedict_44 Start: 31695, Stop: 30988, Start Num: 46

Candidate Starts for Benedict_44:

(Start: 46 @31695 has 208 MA's), (127, 31386), (140, 31332), (156, 31296), (157, 31293), (204, 31167), (208, 31152), (213, 31116), (223, 31056),

Gene: BengiVuitton_51 Start: 33565, Stop: 32837, Start Num: 44

Candidate Starts for BengiVuitton_51:

(Start: 44 @33565 has 296 MA's), (115, 33328), (126, 33238), (127, 33235), (162, 33139), (167, 33133), (177, 33109), (187, 33091), (204, 33019), (208, 33004), (210, 32998), (223, 32908),

Gene: Benvolio_46 Start: 32496, Stop: 31771, Start Num: 44

Candidate Starts for Benvolio_46:

(Start: 44 @32496 has 296 MA's), (115, 32262), (126, 32172), (127, 32169), (142, 32118), (177, 32043), (204, 31953), (208, 31938), (210, 31932), (223, 31842),

Gene: BiancaTri92_49 Start: 33867, Stop: 33133, Start Num: 44

Candidate Starts for BiancaTri92_49:

(Start: 44 @33867 has 296 MA's), (115, 33630), (121, 33582), (126, 33540), (127, 33537), (198, 33369), (204, 33321), (208, 33306), (210, 33300), (213, 33270),

Gene: Blackmoor_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Blackmoor_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Blinn1_54 Start: 32178, Stop: 31468, Start Num: 44

Candidate Starts for Blinn1_54:

(Start: 44 @32178 has 296 MA's), (70, 32133), (115, 31941), (144, 31794), (187, 31728), (204, 31656), (208, 31641), (210, 31635), (224, 31542),

Gene: Blue7_53 Start: 31875, Stop: 31138, Start Num: 44

Candidate Starts for Blue7_53:

(Start: 44 @31875 has 296 MA's), (70, 31830), (115, 31638), (121, 31590), (127, 31545), (143, 31479), (204, 31326), (208, 31311), (224, 31212),

Gene: BlueBird_51 Start: 33076, Stop: 32348, Start Num: 46

Candidate Starts for BlueBird_51:

(28, 33145), (Start: 46 @33076 has 208 MA's), (109, 32896), (114, 32854), (126, 32749), (127, 32746), (164, 32647), (187, 32602), (204, 32530), (208, 32515),

Gene: Bluefalcon_40 Start: 31994, Stop: 31275, Start Num: 46

Candidate Starts for Bluefalcon_40:

(Start: 46 @31994 has 208 MA's), (73, 31940), (83, 31916), (99, 31892), (114, 31778), (127, 31670), (204, 31454), (208, 31439), (213, 31403), (222, 31346),

Gene: BobbyDazzler_38 Start: 29216, Stop: 28455, Start Num: 45

Candidate Starts for BobbyDazzler_38:

(Start: 27 @29288 has 8 MA's), (Start: 45 @29216 has 28 MA's), (115, 28964), (121, 28916), (128, 28856), (135, 28835), (151, 28784), (179, 28724), (187, 28709), (208, 28622), (211, 28604), (220, 28538), (223, 28526),

Gene: BogosyJay_48 Start: 32795, Stop: 32091, Start Num: 44

Candidate Starts for BogosyJay_48:

(Start: 44 @32795 has 296 MA's), (72, 32747), (73, 32744), (114, 32603), (115, 32588), (121, 32540), (126, 32498), (204, 32279), (208, 32264), (209, 32261), (210, 32258),

Gene: Bombshell_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Bombshell_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Bonamassa_42 Start: 32019, Stop: 31306, Start Num: 46

Candidate Starts for Bonamassa_42:

(Start: 46 @32019 has 208 MA's), (70, 31971), (83, 31941), (123, 31728), (126, 31698), (127, 31695), (145, 31629), (165, 31593), (194, 31542), (198, 31533), (204, 31485), (208, 31470), (213, 31434),

(223, 31374),

Gene: Bonanza_38 Start: 29144, Stop: 28383, Start Num: 45

Candidate Starts for Bonanza_38:

(Start: 27 @29216 has 8 MA's), (Start: 45 @29144 has 28 MA's), (121, 28844), (128, 28784), (135, 28763), (151, 28712), (179, 28652), (187, 28637), (208, 28550), (211, 28532), (220, 28466), (223, 28454),

Gene: Boohoo_52 Start: 31787, Stop: 31089, Start Num: 43

Candidate Starts for Boohoo_52:

(Start: 43 @31787 has 20 MA's), (76, 31730), (115, 31571), (126, 31481), (127, 31478), (153, 31400), (204, 31271), (208, 31256),

Gene: Bowtie_50 Start: 32645, Stop: 31926, Start Num: 44

Candidate Starts for Bowtie_50:

(Start: 44 @32645 has 296 MA's), (70, 32600), (115, 32408), (121, 32360), (126, 32318), (127, 32315), (145, 32249), (171, 32213), (196, 32162), (198, 32153), (204, 32105), (208, 32090), (223, 31994),

Gene: Bradshaw_38 Start: 29170, Stop: 28409, Start Num: 45

Candidate Starts for Bradshaw_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (143, 28762), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: Braxoaddie_18 Start: 8796, Stop: 9779, Start Num: 18

Candidate Starts for Braxoaddie_18:

(Start: 18 @8796 has 1 MA's), (22, 8826), (31, 8865), (Start: 37 @8892 has 5 MA's), (Start: 61 @8931 has 4 MA's), (72, 8958), (84, 8988), (115, 9162), (139, 9312), (150, 9342), (169, 9417), (208, 9576), (219, 9651), (220, 9660),

Gene: BreSam8_52 Start: 33200, Stop: 32493, Start Num: 44

Candidate Starts for BreSam8_52:

(Start: 44 @33200 has 296 MA's), (114, 33008), (126, 32903), (133, 32870), (204, 32675), (208, 32660),

Gene: Broseidon_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Broseidon_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Bruiser_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Bruiser_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: BrutonGaster_76 Start: 53061, Stop: 53798, Start Num: 51

Candidate Starts for BrutonGaster_76:

(42, 53046), (Start: 51 @53061 has 5 MA's), (62, 53079), (87, 53133), (101, 53169), (102, 53172), (115, 53292), (124, 53358), (176, 53487), (230, 53718),

Gene: Bryce_38 Start: 29145, Stop: 28384, Start Num: 45

Candidate Starts for Bryce_38:

(Start: 27 @29217 has 8 MA's), (Start: 45 @29145 has 28 MA's), (115, 28893), (121, 28845), (128, 28785), (135, 28764), (151, 28713), (179, 28653), (187, 28638), (208, 28551), (211, 28533), (220, 28467), (223, 28455),

Gene: BubbleTrouble_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for BubbleTrouble_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Bud_49 Start: 32195, Stop: 31482, Start Num: 44

Candidate Starts for Bud_49:

(Start: 44 @32195 has 296 MA's), (73, 32144), (121, 31922), (126, 31880), (184, 31739), (198, 31709), (201, 31673), (204, 31661), (208, 31646), (210, 31640), (223, 31550),

Gene: Bugatti_50 Start: 33076, Stop: 32348, Start Num: 46

Candidate Starts for Bugatti_50:

(Start: 46 @33076 has 208 MA's), (109, 32896), (114, 32854), (126, 32749), (127, 32746), (164, 32647), (187, 32602), (204, 32530), (208, 32515),

Gene: Buggy_51 Start: 33612, Stop: 32884, Start Num: 44

Candidate Starts for Buggy_51:

(Start: 44 @33612 has 296 MA's), (115, 33375), (121, 33327), (126, 33285), (127, 33282), (198, 33114), (204, 33066), (208, 33051), (210, 33045),

Gene: Bumblebee11_46 Start: 32757, Stop: 32038, Start Num: 46

Candidate Starts for Bumblebee11_46:

(Start: 46 @32757 has 208 MA's), (115, 32529), (121, 32481), (127, 32436), (139, 32385), (140, 32382), (141, 32379), (191, 32286), (198, 32268), (204, 32220), (208, 32205),

Gene: Burger_46 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Burger_46:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: BuzzBuzz_50 Start: 33237, Stop: 32530, Start Num: 44

Candidate Starts for BuzzBuzz_50:

(Start: 44 @33237 has 296 MA's), (114, 33045), (204, 32712), (208, 32697),

Gene: Bxz2_48 Start: 33244, Stop: 32537, Start Num: 44

Candidate Starts for Bxz2_48:

(Start: 44 @33244 has 296 MA's), (114, 33052), (204, 32719), (208, 32704),

Gene: C3_47 Start: 33241, Stop: 32555, Start Num: 44

Candidate Starts for C3_47:

(Start: 44 @33241 has 296 MA's), (115, 33031), (127, 32938), (128, 32923), (187, 32815), (198, 32791), (201, 32755), (204, 32743), (208, 32728), (213, 32692), (223, 32632),

Gene: C3PO_9 Start: 4740, Stop: 5513, Start Num: 54

Candidate Starts for C3PO_9:

(Start: 54 @4740 has 8 MA's), (59, 4752), (70, 4776), (77, 4794), (118, 5016), (129, 5103), (183, 5214), (208, 5304), (211, 5322), (212, 5334), (228, 5412), (232, 5424),

Gene: CRB1_53 Start: 33955, Stop: 33227, Start Num: 44

Candidate Starts for CRB1_53:

(Start: 44 @33955 has 296 MA's), (115, 33718), (126, 33628), (127, 33625), (198, 33457), (204, 33409), (208, 33394), (210, 33388), (223, 33298),

Gene: Caelakin_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Caelakin_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Cafasso_72 Start: 47063, Stop: 47767, Start Num: 63

Candidate Starts for Cafasso_72:

(Start: 63 @47063 has 4 MA's), (99, 47147), (115, 47276), (121, 47324), (123, 47336), (126, 47366), (137, 47411), (187, 47513), (204, 47585), (208, 47600),

Gene: Camperdownii_46 Start: 32454, Stop: 31735, Start Num: 46

Candidate Starts for Camperdownii_46:

(Start: 46 @32454 has 208 MA's), (115, 32226), (121, 32178), (133, 32103), (139, 32082), (140, 32079), (191, 31983), (201, 31929), (204, 31917), (208, 31902), (210, 31896),

Gene: Candra_51 Start: 32121, Stop: 31384, Start Num: 44

Candidate Starts for Candra_51:

(Start: 44 @32121 has 296 MA's), (70, 32076), (115, 31884), (128, 31776), (140, 31734), (186, 31647), (204, 31572), (210, 31551), (224, 31458),

Gene: Caraxes_49 Start: 31632, Stop: 30928, Start Num: 44

Candidate Starts for Caraxes_49:

(Start: 44 @31632 has 296 MA's), (105, 31536), (126, 31335), (127, 31332), (137, 31290), (147, 31269), (170, 31224), (204, 31116), (208, 31101), (209, 31098), (210, 31095), (223, 31005),

Gene: Cardigan_114 Start: 64862, Stop: 65608, Start Num: 49

Candidate Starts for Cardigan_114:

(Start: 49 @64862 has 4 MA's), (Start: 52 @64868 has 5 MA's), (62, 64880), (65, 64889), (68, 64895), (85, 64928), (101, 64979), (107, 65012), (120, 65141), (124, 65168), (128, 65213), (136, 65228), (161, 65267), (167, 65279), (193, 65339), (198, 65351), (210, 65420), (212, 65444), (222, 65507), (233, 65543), (239, 65594),

Gene: Catalina_50 Start: 33025, Stop: 32321, Start Num: 44

Candidate Starts for Catalina_50:

(Start: 44 @33025 has 296 MA's), (70, 32980), (72, 32977), (73, 32974), (114, 32833), (115, 32818), (121, 32770), (126, 32728), (204, 32509), (208, 32494),

Gene: Caviar_48 Start: 33068, Stop: 32286, Start Num: 32

Candidate Starts for Caviar_48:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Centaur_50 Start: 33459, Stop: 32731, Start Num: 44

Candidate Starts for Centaur_50:

(Start: 44 @33459 has 296 MA's), (115, 33222), (121, 33174), (126, 33132), (127, 33129), (198, 32961), (204, 32913), (208, 32898), (210, 32892),

Gene: CentreCat_48 Start: 32784, Stop: 32065, Start Num: 46

Candidate Starts for CentreCat_48:

(Start: 46 @32784 has 208 MA's), (115, 32556), (121, 32508), (133, 32433), (139, 32412), (140, 32409), (191, 32313), (201, 32259), (204, 32247), (208, 32232), (210, 32226),

Gene: Cerulean_49 Start: 33204, Stop: 32485, Start Num: 46

Candidate Starts for Cerulean_49:

(Start: 46 @33204 has 208 MA's), (70, 33159), (115, 32976), (121, 32928), (139, 32832), (140, 32829), (201, 32679), (204, 32667), (208, 32652), (210, 32646),

Gene: Chadwick_45 Start: 31672, Stop: 30968, Start Num: 46

Candidate Starts for Chadwick_45:

(Start: 46 @31672 has 208 MA's), (113, 31477), (114, 31471), (121, 31408), (126, 31366), (127, 31363), (134, 31330), (162, 31264), (198, 31195), (204, 31147), (208, 31132),

Gene: ChampagnePapi_50 Start: 33203, Stop: 32484, Start Num: 46

Candidate Starts for ChampagnePapi_50:

(Start: 46 @33203 has 208 MA's), (70, 33158), (115, 32975), (121, 32927), (139, 32831), (140, 32828), (201, 32678), (204, 32666), (208, 32651), (210, 32645),

Gene: Changeling_48 Start: 33661, Stop: 32930, Start Num: 44

Candidate Starts for Changeling_48:

(Start: 44 @33661 has 296 MA's), (115, 33427), (126, 33337), (127, 33334), (167, 33232), (187, 33190), (198, 33166), (204, 33118), (208, 33103), (210, 33097), (213, 33067), (224, 33004),

Gene: Chaph_48 Start: 32792, Stop: 32073, Start Num: 46

Candidate Starts for Chaph_48:

(Start: 46 @32792 has 208 MA's), (115, 32564), (121, 32516), (133, 32441), (139, 32420), (140, 32417), (191, 32321), (201, 32267), (204, 32255), (208, 32240), (210, 32234),

Gene: Chargerpower_48 Start: 31983, Stop: 31276, Start Num: 44

Candidate Starts for Chargerpower_48:

(Start: 44 @31983 has 296 MA's), (115, 31773), (121, 31725), (126, 31683), (127, 31680), (131, 31656), (177, 31554), (186, 31539), (198, 31512), (204, 31464), (208, 31449), (223, 31353),

Gene: Charm_48 Start: 32829, Stop: 32122, Start Num: 44

Candidate Starts for Charm_48:

(Start: 44 @32829 has 296 MA's), (114, 32634), (115, 32619), (121, 32571), (131, 32502), (186, 32385), (191, 32376), (204, 32310), (208, 32295),

Gene: Chartreuse_50 Start: 31481, Stop: 30744, Start Num: 44

Candidate Starts for Chartreuse_50:

(Start: 44 @31481 has 296 MA's), (70, 31436), (115, 31244), (128, 31136), (140, 31094), (186, 31007), (204, 30932), (208, 30917), (210, 30911), (224, 30818),

Gene: Che12_51 Start: 32066, Stop: 31362, Start Num: 44

Candidate Starts for Che12_51:

(Start: 44 @32066 has 296 MA's), (122, 31808), (127, 31766), (137, 31724), (147, 31703), (166, 31667), (170, 31658), (204, 31550), (208, 31535), (213, 31499), (223, 31439),

Gene: CherryTomatoes_64 Start: 21847, Stop: 22584, Start Num: 51

Candidate Starts for CherryTomatoes_64:

(Start: 51 @21847 has 5 MA's), (87, 21919), (107, 21988), (139, 22216), (161, 22243), (180, 22282), (210, 22396), (222, 22483), (239, 22570),

Gene: ChewyVIII_31 Start: 14882, Stop: 15733, Start Num: 44

Candidate Starts for ChewyVIII_31:

(Start: 44 @14882 has 296 MA's), (70, 14948), (80, 14972), (99, 15029), (130, 15275), (142, 15317), (152, 15347), (186, 15437), (187, 15440), (199, 15515), (202, 15530), (204, 15539), (212, 15584), (222, 15647), (238, 15725),

Gene: ChipMunk_51 Start: 34806, Stop: 34081, Start Num: 44

Candidate Starts for ChipMunk_51:

(Start: 44 @34806 has 296 MA's), (115, 34572), (126, 34482), (127, 34479), (142, 34428), (162, 34383), (167, 34377), (198, 34311), (204, 34263), (208, 34248), (210, 34242),

Gene: Chupacabra_46 Start: 32406, Stop: 31678, Start Num: 44

Candidate Starts for Chupacabra_46:

(Start: 44 @32406 has 296 MA's), (Start: 46 @32400 has 208 MA's), (Start: 49 @32388 has 4 MA's), (113, 32190), (115, 32169), (121, 32121), (126, 32079), (127, 32076), (135, 32040), (143, 32013), (158, 31986), (204, 31860), (208, 31845), (210, 31839),

Gene: Cici_47 Start: 32772, Stop: 32053, Start Num: 46

Candidate Starts for Cici_47:

(Start: 46 @32772 has 208 MA's), (115, 32544), (121, 32496), (127, 32451), (139, 32400), (140, 32397), (141, 32394), (191, 32301), (198, 32283), (204, 32235), (208, 32220),

Gene: Cindaradix_45 Start: 32397, Stop: 31678, Start Num: 46

Candidate Starts for Cindaradix_45:

(Start: 46 @32397 has 208 MA's), (115, 32169), (133, 32046), (140, 32022), (141, 32019), (191, 31926), (201, 31872), (204, 31860), (208, 31845),

Gene: Cintron_47 Start: 32761, Stop: 32042, Start Num: 46

Candidate Starts for Cintron_47:

(Start: 46 @32761 has 208 MA's), (115, 32533), (121, 32485), (133, 32410), (139, 32389), (140, 32386), (191, 32290), (201, 32236), (204, 32224), (208, 32209), (210, 32203),

Gene: Citius_48 Start: 32802, Stop: 32083, Start Num: 46

Candidate Starts for Citius_48:

(Start: 46 @32802 has 208 MA's), (115, 32574), (121, 32526), (133, 32451), (139, 32430), (140, 32427), (191, 32331), (201, 32277), (204, 32265), (208, 32250), (210, 32244),

Gene: Clarenza_47 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Clarenza_47:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: CloudWang3_51 Start: 31870, Stop: 31142, Start Num: 44

Candidate Starts for CloudWang3_51:

(Start: 44 @31870 has 296 MA's), (70, 31825), (115, 31633), (121, 31585), (126, 31543), (127, 31540), (145, 31474), (171, 31438), (196, 31387), (198, 31378), (204, 31330), (208, 31315), (224, 31216),

Gene: Cocoaberry_48 Start: 32785, Stop: 32066, Start Num: 46

Candidate Starts for Cocoaberry_48:

(Start: 46 @32785 has 208 MA's), (115, 32557), (121, 32509), (133, 32434), (139, 32413), (140, 32410), (191, 32314), (201, 32260), (204, 32248), (208, 32233), (210, 32227),

Gene: CoffeeBean_18 Start: 8823, Stop: 9716, Start Num: 37

Candidate Starts for CoffeeBean_18:

(Start: 37 @8823 has 5 MA's), (Start: 61 @8865 has 4 MA's), (72, 8892), (84, 8922), (115, 9096), (139, 9246), (190, 9426), (209, 9516), (215, 9555), (219, 9588),

Gene: Colbster_52 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for Colbster_52:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: Colin_49 Start: 33432, Stop: 32701, Start Num: 44

Candidate Starts for Colin_49:

(Start: 44 @33432 has 296 MA's), (Start: 60 @33402 has 1 MA's), (70, 33387), (121, 33150), (126, 33108), (127, 33105), (142, 33054), (198, 32937), (204, 32889), (208, 32874), (213, 32838),

Gene: Commander_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Commander_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Connomayer_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Connomayer_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Conquerage_49 Start: 33048, Stop: 32344, Start Num: 44

Candidate Starts for Conquerage_49:

(Start: 44 @33048 has 296 MA's), (70, 33003), (72, 33000), (73, 32997), (114, 32856), (115, 32841), (121, 32793), (126, 32751), (204, 32532), (208, 32517),

Gene: Conspiracy_41 Start: 31718, Stop: 30999, Start Num: 46

Candidate Starts for Conspiracy_41:

(Start: 46 @31718 has 208 MA's), (73, 31664), (83, 31640), (99, 31616), (116, 31484), (140, 31340), (193, 31241), (204, 31178), (208, 31163), (213, 31127), (222, 31070),

Gene: Coog_41 Start: 31816, Stop: 31097, Start Num: 46

Candidate Starts for Coog_41:

(Start: 46 @31816 has 208 MA's), (73, 31762), (83, 31738), (99, 31714), (116, 31582), (140, 31438), (193, 31339), (204, 31276), (208, 31261), (213, 31225), (222, 31168),

Gene: Cookiedough_51 Start: 32094, Stop: 31360, Start Num: 44

Candidate Starts for Cookiedough_51:

(Start: 44 @32094 has 296 MA's), (70, 32049), (87, 32013), (115, 31857), (126, 31767), (127, 31764), (139, 31713), (186, 31623), (187, 31620), (198, 31596), (204, 31548), (208, 31533), (210, 31527), (224, 31434),

Gene: CosmicSans_38 Start: 29242, Stop: 28409, Start Num: 27

Candidate Starts for CosmicSans_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (143, 28762), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: Crucio_49 Start: 33049, Stop: 32324, Start Num: 44

Candidate Starts for Crucio_49:

(Start: 44 @33049 has 296 MA's), (115, 32815), (126, 32725), (127, 32722), (142, 32671), (148, 32656), (187, 32578), (198, 32554), (204, 32506), (208, 32491), (209, 32488), (210, 32485), (223, 32395),

Gene: Cruella_9 Start: 4740, Stop: 5513, Start Num: 54

Candidate Starts for Cruella_9:

(Start: 54 @4740 has 8 MA's), (59, 4752), (70, 4776), (77, 4794), (118, 5016), (129, 5103), (183, 5214), (208, 5304), (211, 5322), (212, 5334), (228, 5412), (232, 5424),

Gene: Cuco_41 Start: 31773, Stop: 31054, Start Num: 46

Candidate Starts for Cuco_41:

(Start: 46 @31773 has 208 MA's), (70, 31725), (83, 31695), (126, 31452), (127, 31449), (140, 31395), (143, 31386), (186, 31308), (187, 31305), (204, 31233), (208, 31218), (213, 31182), (223, 31122),

Gene: Cullens_52 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for Cullens_52:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: D29_48 Start: 32823, Stop: 32116, Start Num: 44

Candidate Starts for D29_48:

(Start: 44 @32823 has 296 MA's), (114, 32628), (115, 32613), (126, 32523), (127, 32520), (137, 32478), (204, 32304), (208, 32289), (223, 32193),

Gene: D32_50 Start: 32823, Stop: 32116, Start Num: 44

Candidate Starts for D32_50:

(Start: 44 @32823 has 296 MA's), (114, 32628), (115, 32613), (126, 32523), (127, 32520), (137, 32478), (204, 32304), (208, 32289), (223, 32193),

Gene: DBQu4n_51 Start: 32822, Stop: 32115, Start Num: 44

Candidate Starts for DBQu4n_51:

(Start: 44 @32822 has 296 MA's), (114, 32627), (115, 32612), (126, 32522), (127, 32519), (137, 32477), (204, 32303), (208, 32288), (223, 32192),

Gene: DaHudson_52 Start: 33199, Stop: 32492, Start Num: 44

Candidate Starts for DaHudson_52:

(Start: 44 @33199 has 296 MA's), (114, 33007), (126, 32902), (133, 32869), (204, 32674), (208, 32659),

Gene: DaVinci_50 Start: 31535, Stop: 30798, Start Num: 44

Candidate Starts for DaVinci_50:

(Start: 44 @31535 has 296 MA's), (70, 31490), (115, 31298), (128, 31190), (140, 31148), (186, 31061), (204, 30986), (208, 30971), (210, 30965), (224, 30872),

Gene: Daishi_51 Start: 32078, Stop: 31371, Start Num: 44

Candidate Starts for Daishi_51:

(Start: 44 @32078 has 296 MA's), (114, 31886), (204, 31553), (208, 31538),

Gene: Dalmatian_50 Start: 33441, Stop: 32716, Start Num: 44

Candidate Starts for Dalmatian_50:

(Start: 44 @33441 has 296 MA's), (115, 33207), (126, 33117), (127, 33114), (142, 33063), (167, 33012), (198, 32946), (204, 32898), (208, 32883), (210, 32877), (213, 32847), (223, 32787),

Gene: Darrell_50 Start: 33640, Stop: 32939, Start Num: 44

Candidate Starts for Darrell_50:

(Start: 44 @33640 has 296 MA's), (114, 33445), (115, 33430), (121, 33382), (126, 33340), (131, 33313), (143, 33283), (147, 33274), (156, 33253), (186, 33196), (204, 33121), (208, 33106),

Gene: DARTHPhader_46 Start: 33859, Stop: 33155, Start Num: 44

Candidate Starts for DARTHPhader_46:

(Start: 44 @33859 has 296 MA's), (114, 33667), (115, 33652), (127, 33559), (201, 33355), (204, 33343), (208, 33328), (210, 33322), (213, 33292), (231, 33211),

Gene: Darwin_9 Start: 4738, Stop: 5511, Start Num: 54

Candidate Starts for Darwin_9:

(Start: 54 @4738 has 8 MA's), (59, 4750), (70, 4774), (77, 4792), (118, 5014), (128, 5098), (129, 5101), (162, 5182), (183, 5212), (207, 5296), (208, 5302), (211, 5320), (212, 5332), (228, 5410), (232, 5422),

Gene: Datway_47 Start: 32743, Stop: 32024, Start Num: 46

Candidate Starts for Datway_47:

(Start: 46 @32743 has 208 MA's), (115, 32515), (121, 32467), (127, 32422), (139, 32371), (140, 32368), (141, 32365), (191, 32272), (198, 32254), (204, 32206), (208, 32191),

Gene: Deano_47 Start: 32789, Stop: 32070, Start Num: 46

Candidate Starts for Deano_47:

(Start: 46 @32789 has 208 MA's), (115, 32561), (121, 32513), (133, 32438), (139, 32417), (191, 32318), (201, 32264), (204, 32252), (208, 32237), (210, 32231),

Gene: DekHockey33_52 Start: 32026, Stop: 31304, Start Num: 43

Candidate Starts for DekHockey33_52:

(Start: 43 @32026 has 20 MA's), (83, 31948), (89, 31936), (115, 31786), (126, 31696), (127, 31693), (153, 31615), (204, 31486), (208, 31471),

Gene: Deloris_50 Start: 33234, Stop: 32506, Start Num: 44

Candidate Starts for Deloris_50:

(Start: 44 @33234 has 296 MA's), (115, 32997), (126, 32907), (127, 32904), (162, 32808), (167, 32802), (177, 32778), (187, 32760), (204, 32688), (208, 32673), (210, 32667), (223, 32577),

Gene: Dhanush_48 Start: 32784, Stop: 32065, Start Num: 46

Candidate Starts for Dhanush_48:

(Start: 46 @32784 has 208 MA's), (115, 32556), (121, 32508), (133, 32433), (139, 32412), (140, 32409), (191, 32313), (201, 32259), (204, 32247), (208, 32232), (210, 32226),

Gene: Dieselweasel_53 Start: 33209, Stop: 32502, Start Num: 44

Candidate Starts for Dieselweasel_53:

(Start: 44 @33209 has 296 MA's), (114, 33017), (126, 32912), (133, 32879), (204, 32684), (208, 32669),

Gene: Dignity_51 Start: 33614, Stop: 32889, Start Num: 44

Candidate Starts for Dignity_51:

(Start: 44 @33614 has 296 MA's), (115, 33380), (126, 33290), (127, 33287), (167, 33185), (198, 33119), (204, 33071), (208, 33056), (210, 33050),

Gene: Dinger_38 Start: 29233, Stop: 28472, Start Num: 45

Candidate Starts for Dinger_38:

(Start: 27 @29305 has 8 MA's), (Start: 45 @29233 has 28 MA's), (115, 28981), (121, 28933), (128, 28873), (135, 28852), (151, 28801), (179, 28741), (187, 28726), (208, 28639), (211, 28621),

Gene: DirtyDunning_47 Start: 32802, Stop: 32083, Start Num: 46

Candidate Starts for DirtyDunning_47:

(Start: 46 @32802 has 208 MA's), (70, 32757), (115, 32574), (139, 32430), (140, 32427), (191, 32331), (204, 32265), (208, 32250),

Gene: Discoknowium_40 Start: 31509, Stop: 30796, Start Num: 46

Candidate Starts for Discoknowium_40:

(Start: 46 @31509 has 208 MA's), (70, 31461), (83, 31431), (114, 31293), (123, 31218), (126, 31188), (127, 31185), (145, 31119), (165, 31083), (194, 31032), (198, 31023), (204, 30975), (208, 30960), (213, 30924), (222, 30867),

Gene: Dorothea_50 Start: 32104, Stop: 31367, Start Num: 44

Candidate Starts for Dorothea_50:

(Start: 44 @32104 has 296 MA's), (70, 32059), (115, 31867), (128, 31759), (140, 31717), (186, 31630), (204, 31555), (208, 31540), (210, 31534), (224, 31441),

Gene: Drake55_51 Start: 33535, Stop: 32807, Start Num: 44

Candidate Starts for Drake55_51:

(Start: 44 @33535 has 296 MA's), (115, 33298), (121, 33250), (126, 33208), (127, 33205), (198, 33037), (204, 32989), (208, 32974), (210, 32968),

Gene: Drake94_45 Start: 31682, Stop: 30954, Start Num: 44

Candidate Starts for Drake94_45:

(Start: 44 @31682 has 296 MA's), (Start: 46 @31676 has 208 MA's), (115, 31445), (121, 31397), (126, 31355), (127, 31352), (135, 31316), (143, 31289), (204, 31136), (208, 31121), (223, 31025),

Gene: DreamTeam1_48 Start: 32703, Stop: 31996, Start Num: 44

Candidate Starts for DreamTeam1_48:

(Start: 44 @32703 has 296 MA's), (114, 32508), (115, 32493), (121, 32445), (131, 32376), (186, 32259), (191, 32250), (204, 32184), (208, 32169),

Gene: Druantia_48 Start: 32784, Stop: 32065, Start Num: 46

Candidate Starts for Druantia_48:

(Start: 46 @32784 has 208 MA's), (115, 32556), (121, 32508), (133, 32433), (139, 32412), (140, 32409), (191, 32313), (201, 32259), (204, 32247), (208, 32232), (210, 32226),

Gene: Dublin_40 Start: 31537, Stop: 30818, Start Num: 46

Candidate Starts for Dublin_40:

(Start: 46 @31537 has 208 MA's), (70, 31489), (83, 31459), (121, 31258), (122, 31255), (127, 31213), (201, 31009), (204, 30997), (208, 30982), (213, 30946), (214, 30943), (223, 30886),

Gene: DudeLittle_48 Start: 33183, Stop: 32458, Start Num: 44

Candidate Starts for DudeLittle_48:

(Start: 44 @33183 has 296 MA's), (115, 32949), (126, 32859), (127, 32856), (142, 32805), (198, 32688), (204, 32640), (208, 32625), (210, 32619),

Gene: Duplo_51 Start: 32860, Stop: 32153, Start Num: 44

Candidate Starts for Duplo_51:

(Start: 44 @32860 has 296 MA's), (114, 32665), (115, 32650), (126, 32560), (127, 32557), (137, 32515), (204, 32341), (208, 32326), (223, 32230),

Gene: E3_gp66 Start: 25499, Stop: 26308, Start Num: 39

Candidate Starts for E3_gp66:

(39, 25499), (53, 25529), (Start: 61 @25544 has 4 MA's), (117, 25793), (138, 25910), (178, 25973), (203, 26063), (208, 26084), (209, 26087), (210, 26090), (220, 26168), (239, 26267), (241, 26273), (242, 26297),

Gene: EZMoney23_47 Start: 32987, Stop: 32256, Start Num: 44

Candidate Starts for EZMoney23_47:

(Start: 44 @32987 has 296 MA's), (70, 32942), (114, 32768), (115, 32753), (126, 32663), (127, 32660), (142, 32609), (204, 32444), (208, 32429), (210, 32423), (223, 32333),

Gene: Eagle_48 Start: 32806, Stop: 32087, Start Num: 46

Candidate Starts for Eagle_48:

(Start: 46 @32806 has 208 MA's), (115, 32578), (121, 32530), (133, 32455), (139, 32434), (140, 32431), (191, 32335), (201, 32281), (204, 32269), (208, 32254), (210, 32248),

Gene: EagleEye_51 Start: 32618, Stop: 31875, Start Num: 44

Candidate Starts for EagleEye_51:

(Start: 44 @32618 has 296 MA's), (126, 32291), (127, 32288), (137, 32246), (204, 32063), (208, 32048),

Gene: Eaglepride_48 Start: 32476, Stop: 31748, Start Num: 44

Candidate Starts for Eaglepride_48:

(Start: 44 @32476 has 296 MA's), (Start: 46 @32470 has 208 MA's), (113, 32260), (115, 32239), (121, 32191), (126, 32149), (127, 32146), (135, 32110), (143, 32083), (204, 31930), (208, 31915), (223, 31819),

Gene: Eapen_48 Start: 32776, Stop: 32057, Start Num: 46

Candidate Starts for Eapen_48:

(Start: 46 @32776 has 208 MA's), (115, 32548), (121, 32500), (133, 32425), (139, 32404), (140, 32401), (191, 32305), (201, 32251), (204, 32239), (208, 32224), (210, 32218),

Gene: Ebony_49 Start: 32212, Stop: 31499, Start Num: 44

Candidate Starts for Ebony_49:

(Start: 44 @32212 has 296 MA's), (73, 32161), (121, 31939), (126, 31897), (184, 31756), (198, 31726), (201, 31690), (204, 31678), (208, 31663), (210, 31657), (223, 31567),

Gene: Echild_49 Start: 32520, Stop: 31795, Start Num: 44

Candidate Starts for Echild_49:

(Start: 44 @32520 has 296 MA's), (115, 32286), (126, 32196), (127, 32193), (142, 32142), (177, 32067), (204, 31977), (208, 31962), (210, 31956), (223, 31866),

Gene: Edison31_46 Start: 32435, Stop: 31698, Start Num: 44

Candidate Starts for Edison31_46:

(Start: 44 @32435 has 296 MA's), (Start: 46 @32429 has 208 MA's), (115, 32189), (121, 32141), (126, 32099), (127, 32096), (146, 32027), (166, 31994), (186, 31955), (204, 31880), (208, 31865), (213, 31829), (223, 31769),

Gene: EhyElimayoE_6 Start: 3780, Stop: 2992, Start Num: 52

Candidate Starts for EhyElimayoE_6:

(34, 3849), (Start: 52 @3780 has 5 MA's), (56, 3771), (62, 3759), (115, 3513), (120, 3474), (128, 3399), (171, 3309), (181, 3288), (200, 3219), (206, 3195), (208, 3183), (220, 3099), (227, 3075), (240, 2997),

Gene: Eidsmoe_49 Start: 33088, Stop: 32384, Start Num: 44

Candidate Starts for Eidsmoe_49:

(Start: 44 @33088 has 296 MA's), (70, 33043), (72, 33040), (73, 33037), (114, 32896), (115, 32881), (121, 32833), (126, 32791), (204, 32572), (208, 32557),

Gene: EITiger69_43 Start: 31689, Stop: 30985, Start Num: 46

Candidate Starts for EITiger69_43:

(Start: 46 @31689 has 208 MA's), (121, 31425), (139, 31329), (140, 31326), (141, 31323), (193, 31227), (204, 31164), (208, 31149), (217, 31092),

Gene: Elephantoon_48 Start: 32391, Stop: 31690, Start Num: 44

Candidate Starts for Elephantoon_48:

(Start: 44 @32391 has 296 MA's), (114, 32196), (121, 32133), (126, 32091), (131, 32064), (143, 32034), (147, 32025), (156, 32004), (186, 31947), (204, 31872), (208, 31857),

Gene: EmyBug_48 Start: 33090, Stop: 32386, Start Num: 44

Candidate Starts for EmyBug_48:

(Start: 44 @33090 has 296 MA's), (70, 33045), (72, 33042), (73, 33039), (114, 32898), (115, 32883), (121, 32835), (126, 32793), (204, 32574), (208, 32559),

Gene: EpicPhail_53 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for EpicPhail_53:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: Epsocamisio_50 Start: 31322, Stop: 30624, Start Num: 43

Candidate Starts for Epsocamisio_50:

(Start: 43 @31322 has 20 MA's), (76, 31265), (115, 31106), (126, 31016), (127, 31013), (153, 30935), (204, 30806), (208, 30791),

Gene: Equemioh13_50 Start: 33361, Stop: 32633, Start Num: 44

Candidate Starts for Equemioh13_50:

(Start: 44 @33361 has 296 MA's), (115, 33124), (121, 33076), (126, 33034), (127, 33031), (198, 32863), (204, 32815), (208, 32800), (210, 32794),

Gene: EricB_51 Start: 32078, Stop: 31341, Start Num: 44

Candidate Starts for EricB_51:

(Start: 44 @32078 has 296 MA's), (70, 32033), (115, 31841), (128, 31733), (140, 31691), (186, 31604), (204, 31529), (208, 31514), (210, 31508), (224, 31415),

Gene: Erik_38 Start: 29168, Stop: 28407, Start Num: 45

Candidate Starts for Erik_38:

(25, 29255), (Start: 27 @29240 has 8 MA's), (Start: 45 @29168 has 28 MA's), (Start: 49 @29153 has 4 MA's), (115, 28916), (121, 28868), (128, 28808), (135, 28787), (151, 28736), (179, 28676), (187, 28661), (208, 28574), (211, 28556), (220, 28490), (223, 28478),

Gene: Eris_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Eris_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Eros_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Eros_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Espica_38 Start: 29243, Stop: 28410, Start Num: 27

Candidate Starts for Espica_38:

(Start: 27 @29243 has 8 MA's), (Start: 45 @29171 has 28 MA's), (115, 28919), (121, 28871), (128, 28811), (135, 28790), (151, 28739), (179, 28679), (187, 28664), (208, 28577), (211, 28559), (220, 28493), (223, 28481),

Gene: Et2Brutus_48 Start: 32172, Stop: 31459, Start Num: 44

Candidate Starts for Et2Brutus_48:

(Start: 44 @32172 has 296 MA's), (73, 32121), (121, 31899), (126, 31857), (184, 31716), (198, 31686), (201, 31650), (204, 31638), (208, 31623), (210, 31617), (223, 31527),

Gene: Eurydice_49 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Eurydice_49:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: EvilGenius_51 Start: 34810, Stop: 34085, Start Num: 44

Candidate Starts for EvilGenius_51:

(Start: 44 @34810 has 296 MA's), (115, 34576), (126, 34486), (127, 34483), (142, 34432), (162, 34387), (167, 34381), (198, 34315), (204, 34267), (208, 34252), (210, 34246),

Gene: ExplosioNervosa_49 Start: 33108, Stop: 32404, Start Num: 44

Candidate Starts for ExplosioNervosa_49:

(Start: 44 @33108 has 296 MA's), (70, 33063), (72, 33060), (73, 33057), (114, 32916), (115, 32901), (121, 32853), (126, 32811), (204, 32592), (208, 32577),

Gene: Fameo_49 Start: 33359, Stop: 32634, Start Num: 44

Candidate Starts for Fameo_49:

(Start: 44 @33359 has 296 MA's), (115, 33125), (126, 33035), (127, 33032), (142, 32981), (148, 32966), (187, 32888), (204, 32816), (208, 32801), (210, 32795),

Gene: Farber_52 Start: 33199, Stop: 32492, Start Num: 44

Candidate Starts for Farber_52:

(Start: 44 @33199 has 296 MA's), (114, 33007), (204, 32674), (208, 32659),

Gene: Fayely_49 Start: 33057, Stop: 32353, Start Num: 44

Candidate Starts for Fayely_49:

(Start: 44 @33057 has 296 MA's), (70, 33012), (72, 33009), (73, 33006), (114, 32865), (115, 32850), (121, 32802), (126, 32760), (204, 32541), (208, 32526),

Gene: Fernando_52 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for Fernando_52:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: Fibonacci_49 Start: 32187, Stop: 31474, Start Num: 44

Candidate Starts for Fibonacci_49:

(Start: 44 @32187 has 296 MA's), (73, 32136), (121, 31914), (126, 31872), (184, 31731), (198, 31701), (201, 31665), (204, 31653), (208, 31638), (210, 31632), (223, 31542),

Gene: FiringLine_49 Start: 33030, Stop: 32305, Start Num: 44

Candidate Starts for FiringLine_49:

(Start: 44 @33030 has 296 MA's), (115, 32796), (126, 32706), (127, 32703), (142, 32652), (162, 32607), (167, 32601), (198, 32535), (204, 32487), (208, 32472), (210, 32466), (223, 32376),

Gene: First_0051 Start: 33488, Stop: 32760, Start Num: 44

Candidate Starts for First_0051:

(Start: 44 @33488 has 296 MA's), (115, 33251), (126, 33161), (127, 33158), (167, 33056), (198, 32990), (204, 32942), (208, 32927), (210, 32921), (223, 32831),

Gene: Flare16_49 Start: 33120, Stop: 32392, Start Num: 44

Candidate Starts for Flare16_49:

(Start: 44 @33120 has 296 MA's), (115, 32883), (121, 32835), (126, 32793), (127, 32790), (198, 32622), (204, 32574), (208, 32559), (210, 32553),

Gene: Flaverint_50 Start: 32639, Stop: 31920, Start Num: 44

Candidate Starts for Flaverint_50:

(Start: 44 @32639 has 296 MA's), (70, 32594), (115, 32402), (121, 32354), (126, 32312), (127, 32309), (145, 32243), (171, 32207), (196, 32156), (198, 32147), (204, 32099), (208, 32084), (223, 31988),

Gene: Florean_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Florean_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Flux_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Flux_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: ForGetIt_41 Start: 31743, Stop: 31024, Start Num: 46

Candidate Starts for ForGetIt_41:

(Start: 46 @31743 has 208 MA's), (73, 31689), (83, 31665), (99, 31641), (116, 31509), (140, 31365), (193, 31266), (204, 31203), (208, 31188), (213, 31152), (222, 31095),

Gene: Frankenweenie_9 Start: 4386, Stop: 3541, Start Num: 35

Candidate Starts for Frankenweenie_9:

(1, 4770), (16, 4524), (24, 4440), (Start: 35 @4386 has 1 MA's), (Start: 52 @4323 has 5 MA's), (56, 4314), (62, 4302), (110, 4128), (120, 4023), (171, 3858), (181, 3837), (200, 3768), (206, 3744), (208, 3732), (227, 3624), (240, 3546),

Gene: Fred313_49 Start: 32649, Stop: 31921, Start Num: 46

Candidate Starts for Fred313_49:

(Start: 46 @32649 has 208 MA's), (Start: 63 @32613 has 4 MA's), (109, 32469), (114, 32427), (126, 32322), (127, 32319), (164, 32220), (204, 32103), (208, 32088), (210, 32082),

Gene: Funston_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Funston_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: GMA2_44 Start: 44773, Stop: 44075, Start Num: 61

Candidate Starts for GMA2_44:

(48, 44797), (Start: 61 @44773 has 4 MA's), (74, 44743), (92, 44701), (113, 44575), (120, 44512), (127, 44455), (128, 44440), (136, 44413), (159, 44368), (175, 44341), (186, 44329), (195, 44314), (211, 44221), (213, 44203), (219, 44164), (221, 44152), (229, 44128),

Gene: GMA3_42 Start: 42519, Stop: 41794, Start Num: 61

Candidate Starts for GMA3_42:

(Start: 61 @42519 has 4 MA's), (71, 42495), (88, 42453), (90, 42447), (104, 42402), (127, 42195), (197, 42054), (212, 41958), (219, 41913), (222, 41895), (229, 41877),

Gene: Gadost_48 Start: 32785, Stop: 32066, Start Num: 46

Candidate Starts for Gadost_48:

(Start: 46 @32785 has 208 MA's), (115, 32557), (121, 32509), (133, 32434), (139, 32413), (140, 32410), (191, 32314), (201, 32260), (204, 32248), (208, 32233), (210, 32227),

Gene: Gaia_90 Start: 53810, Stop: 54535, Start Num: 46

Candidate Starts for Gaia_90:

(Start: 46 @53810 has 208 MA's), (115, 54044), (121, 54092), (127, 54137), (128, 54152), (166, 54236), (204, 54353), (208, 54368), (213, 54404), (220, 54452), (223, 54464), (224, 54467), (227, 54476),

Gene: Garak_53 Start: 32237, Stop: 31509, Start Num: 44

Candidate Starts for Garak_53:

(Start: 44 @32237 has 296 MA's), (70, 32192), (115, 32000), (121, 31952), (126, 31910), (127, 31907), (145, 31841), (171, 31805), (196, 31754), (198, 31745), (204, 31697), (208, 31682), (224, 31583),

Gene: GaugeLDP_47 Start: 33391, Stop: 32687, Start Num: 44

Candidate Starts for GaugeLDP_47:

(Start: 44 @33391 has 296 MA's), (111, 33226), (115, 33184), (121, 33136), (123, 33124), (126, 33094), (127, 33091), (187, 32947), (198, 32923), (202, 32884), (204, 32875), (208, 32860), (210, 32854),

Gene: Gemma_51 Start: 33093, Stop: 32395, Start Num: 44

Candidate Starts for Gemma_51:

(30, 33153), (Start: 44 @33093 has 296 MA's), (114, 32901), (126, 32796), (127, 32793), (142, 32742), (198, 32625), (204, 32577), (208, 32562),

Gene: George_41 Start: 31961, Stop: 31248, Start Num: 46

Candidate Starts for George_41:

(Start: 46 @31961 has 208 MA's), (70, 31913), (83, 31883), (126, 31640), (127, 31637), (145, 31571), (165, 31535), (194, 31484), (198, 31475), (204, 31427), (208, 31412), (213, 31376), (223, 31316),

Gene: Georgie2_50 Start: 33075, Stop: 32350, Start Num: 44

Candidate Starts for Georgie2_50:

(Start: 44 @33075 has 296 MA's), (115, 32841), (126, 32751), (127, 32748), (142, 32697), (148, 32682), (187, 32604), (198, 32580), (204, 32532), (208, 32517), (210, 32511), (223, 32421),

Gene: Ghoulboy_43 Start: 32480, Stop: 31761, Start Num: 46

Candidate Starts for Ghoulboy_43:

(Start: 46 @32480 has 208 MA's), (70, 32432), (114, 32264), (127, 32156), (201, 31952), (204, 31940), (208, 31925), (213, 31889), (222, 31832),

Gene: GiJojo_153 Start: 86545, Stop: 87249, Start Num: 46

Candidate Starts for GiJojo_153:

(Start: 46 @86545 has 208 MA's), (50, 86560), (100, 86647), (105, 86665), (108, 86707), (120, 86815), (123, 86839), (128, 86887), (130, 86893), (136, 86911), (148, 86938), (156, 86953), (202, 87061), (210, 87091), (213, 87121),

Gene: Gilberta_50 Start: 32629, Stop: 31910, Start Num: 44

Candidate Starts for Gilberta_50:

(Start: 44 @32629 has 296 MA's), (70, 32584), (115, 32392), (121, 32344), (126, 32302), (127, 32299), (145, 32233), (171, 32197), (196, 32146), (198, 32137), (204, 32089), (208, 32074), (223, 31978),

Gene: GingkoMaracino_52 Start: 33092, Stop: 32385, Start Num: 44

Candidate Starts for GingkoMaracino_52:

(Start: 44 @33092 has 296 MA's), (114, 32900), (126, 32795), (133, 32762), (204, 32567), (208, 32552),

Gene: Giroux_50 Start: 33075, Stop: 32347, Start Num: 46

Candidate Starts for Giroux_50:

(28, 33144), (Start: 46 @33075 has 208 MA's), (109, 32895), (114, 32853), (126, 32748), (127, 32745), (164, 32646), (187, 32601), (204, 32529), (208, 32514),

Gene: Gladiator_49 Start: 31406, Stop: 30672, Start Num: 44

Candidate Starts for Gladiator_49:

(Start: 44 @31406 has 296 MA's), (70, 31361), (87, 31325), (115, 31169), (126, 31079), (127, 31076), (139, 31025), (186, 30935), (187, 30932), (198, 30908), (204, 30860), (208, 30845), (210, 30839), (224, 30746),

Gene: Gmala1_42 Start: 41527, Stop: 40772, Start Num: 57

Candidate Starts for Gmala1_42:

(57, 41527), (74, 41491), (93, 41443), (143, 41146), (202, 41005), (210, 40975), (212, 40951), (219, 40906), (229, 40870), (231, 40864), (232, 40861),

Gene: Gollum_38 Start: 29170, Stop: 28409, Start Num: 45

Candidate Starts for Gollum_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (Start: 49 @29155 has 4 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: Goose_47 Start: 32213, Stop: 31482, Start Num: 46

Candidate Starts for Goose_47:

(Start: 44 @32219 has 296 MA's), (Start: 46 @32213 has 208 MA's), (113, 31994), (115, 31973), (121, 31925), (126, 31883), (127, 31880), (162, 31784), (208, 31649), (223, 31553),

Gene: GordDuk1_42 Start: 41470, Stop: 40643, Start Num: 57

Candidate Starts for GordDuk1_42:

(57, 41470), (74, 41434), (78, 41422), (93, 41386), (202, 40948), (210, 40918), (212, 40894), (219, 40849), (229, 40813), (231, 40807), (232, 40804), (243, 40672),

Gene: GordTnk2_42 Start: 41436, Stop: 40609, Start Num: 57

Candidate Starts for GordTnk2_42:

(57, 41436), (74, 41400), (93, 41352), (143, 41055), (202, 40914), (210, 40884), (212, 40860), (219, 40815), (229, 40779), (231, 40773), (232, 40770), (243, 40638),

Gene: GreedyLawyer_51 Start: 32085, Stop: 31348, Start Num: 44

Candidate Starts for GreedyLawyer_51:

(Start: 44 @32085 has 296 MA's), (70, 32040), (115, 31848), (128, 31740), (140, 31698), (186, 31611), (204, 31536), (208, 31521), (210, 31515), (224, 31422),

Gene: Grif_52 Start: 33281, Stop: 32574, Start Num: 44

Candidate Starts for Grif_52:

(Start: 44 @33281 has 296 MA's), (114, 33089), (126, 32984), (133, 32951), (204, 32756), (208, 32741),

Gene: Groupthink_53 Start: 33097, Stop: 32399, Start Num: 44

Candidate Starts for Groupthink_53:

(30, 33157), (Start: 44 @33097 has 296 MA's), (114, 32905), (126, 32800), (127, 32797), (142, 32746), (198, 32629), (204, 32581), (208, 32566),

Gene: Grub_52 Start: 33198, Stop: 32491, Start Num: 44

Candidate Starts for Grub_52:

(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: Grum1_52 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for Grum1_52:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: Gruunaga_51 Start: 32073, Stop: 31345, Start Num: 44

Candidate Starts for Gruunaga_51:

(Start: 44 @32073 has 296 MA's), (70, 32028), (115, 31836), (121, 31788), (126, 31746), (127, 31743), (145, 31677), (171, 31641), (196, 31590), (198, 31581), (204, 31533), (208, 31518), (224, 31419),

Gene: GtownJaz_52 Start: 33208, Stop: 32501, Start Num: 44

Candidate Starts for GtownJaz_52:

(Start: 44 @33208 has 296 MA's), (114, 33016), (126, 32911), (133, 32878), (204, 32683), (208, 32668),

Gene: GuyFagieri_17 Start: 8422, Stop: 9339, Start Num: 37

Candidate Starts for GuyFagieri_17:

(20, 8347), (26, 8371), (31, 8395), (Start: 37 @8422 has 5 MA's), (Start: 61 @8485 has 4 MA's), (84, 8542), (139, 8866), (169, 8977), (188, 9034), (209, 9139), (219, 9211),

Gene: HamSlice_47 Start: 32779, Stop: 32060, Start Num: 46

Candidate Starts for HamSlice_47:

(Start: 46 @32779 has 208 MA's), (115, 32551), (121, 32503), (133, 32428), (139, 32407), (140, 32404), (191, 32308), (201, 32254), (204, 32242), (208, 32227), (210, 32221),

Gene: Hammer_52 Start: 31676, Stop: 30948, Start Num: 44

Candidate Starts for Hammer_52:

(Start: 44 @31676 has 296 MA's), (70, 31631), (115, 31439), (121, 31391), (126, 31349), (127, 31346), (145, 31280), (171, 31244), (196, 31193), (198, 31184), (204, 31136), (208, 31121), (224, 31022),

Gene: Happiness_47 Start: 32786, Stop: 32067, Start Num: 46

Candidate Starts for Happiness_47:

(Start: 46 @32786 has 208 MA's), (70, 32741), (115, 32558), (121, 32510), (133, 32435), (139, 32414), (140, 32411), (191, 32315), (201, 32261), (204, 32249), (208, 32234), (210, 32228),

Gene: Harlequin_38 Start: 29175, Stop: 28414, Start Num: 45

Candidate Starts for Harlequin_38:

(Start: 27 @29247 has 8 MA's), (Start: 45 @29175 has 28 MA's), (115, 28923), (121, 28875), (128, 28815), (135, 28794), (151, 28743), (179, 28683), (187, 28668), (208, 28581), (211, 28563), (220, 28497), (223, 28485),

Gene: HarryHoudini_50 Start: 33544, Stop: 32816, Start Num: 44

Candidate Starts for HarryHoudini_50:

(Start: 44 @33544 has 296 MA's), (115, 33307), (121, 33259), (126, 33217), (127, 33214), (198, 33046), (204, 32998), (208, 32983), (210, 32977),

Gene: HashRod_53 Start: 33237, Stop: 32530, Start Num: 44

Candidate Starts for HashRod_53:

(Start: 44 @33237 has 296 MA's), (114, 33045), (204, 32712), (208, 32697),

Gene: HaveUMetTed_53 Start: 33079, Stop: 32381, Start Num: 44

Candidate Starts for HaveUMetTed_53:

(30, 33139), (Start: 44 @33079 has 296 MA's), (114, 32887), (126, 32782), (127, 32779), (142, 32728), (198, 32611), (204, 32563), (208, 32548),

Gene: Heathen_49 Start: 32705, Stop: 31977, Start Num: 46

Candidate Starts for Heathen_49:

(Start: 46 @32705 has 208 MA's), (Start: 63 @32669 has 4 MA's), (109, 32525), (114, 32483), (126, 32378), (127, 32375), (164, 32276), (204, 32159), (208, 32144), (210, 32138),

Gene: Heffalump_48 Start: 33827, Stop: 33102, Start Num: 44

Candidate Starts for Heffalump_48:

(Start: 44 @33827 has 296 MA's), (115, 33593), (126, 33503), (127, 33500), (142, 33449), (148, 33434), (187, 33356), (204, 33284), (208, 33269), (210, 33263),

Gene: HelDan_49 Start: 32957, Stop: 32229, Start Num: 46

Candidate Starts for HelDan_49:

(Start: 46 @32957 has 208 MA's), (Start: 63 @32921 has 4 MA's), (109, 32777), (114, 32735), (126, 32630), (127, 32627), (164, 32528), (204, 32411), (208, 32396), (210, 32390),

Gene: Heliosoles_51 Start: 33100, Stop: 32402, Start Num: 44

Candidate Starts for Heliosoles_51:

(30, 33160), (Start: 44 @33100 has 296 MA's), (114, 32908), (126, 32803), (127, 32800), (142, 32749), (198, 32632), (204, 32584), (208, 32569),

Gene: Helmet_53 Start: 32237, Stop: 31509, Start Num: 44

Candidate Starts for Helmet_53:

(Start: 44 @32237 has 296 MA's), (70, 32192), (115, 32000), (121, 31952), (126, 31910), (127, 31907), (145, 31841), (171, 31805), (196, 31754), (198, 31745), (204, 31697), (208, 31682), (224, 31583),

Gene: Herbertwm_49 Start: 32914, Stop: 32186, Start Num: 44

Candidate Starts for Herbertwm_49:

(Start: 44 @32914 has 296 MA's), (115, 32677), (126, 32587), (142, 32533), (187, 32440), (204, 32368), (208, 32353), (210, 32347), (223, 32257),

Gene: Hercules11_52 Start: 33215, Stop: 32508, Start Num: 44

Candidate Starts for Hercules11_52:

(Start: 44 @33215 has 296 MA's), (114, 33023), (126, 32918), (133, 32885), (204, 32690), (208, 32675),

Gene: Hexamo_51 Start: 31858, Stop: 31130, Start Num: 44

Candidate Starts for Hexamo_51:

(Start: 44 @31858 has 296 MA's), (70, 31813), (87, 31777), (115, 31621), (121, 31573), (126, 31531), (127, 31528), (145, 31462), (171, 31426), (196, 31375), (198, 31366), (204, 31318), (208, 31303), (224, 31204),

Gene: Hiro_38 Start: 29430, Stop: 28669, Start Num: 45

Candidate Starts for Hiro_38:

(Start: 27 @29502 has 8 MA's), (Start: 45 @29430 has 28 MA's), (115, 29178), (121, 29130), (128, 29070), (135, 29049), (151, 28998), (179, 28938), (187, 28923), (208, 28836), (211, 28818), (220, 28752), (223, 28740),

Gene: Holli_47 Start: 32571, Stop: 31852, Start Num: 46

Candidate Starts for Holli_47:

(Start: 46 @32571 has 208 MA's), (115, 32343), (121, 32295), (133, 32220), (139, 32199), (140, 32196), (191, 32100), (201, 32046), (204, 32034), (208, 32019), (210, 32013),

Gene: Hookmount_48 Start: 33015, Stop: 32287, Start Num: 46

Candidate Starts for Hookmount_48:

(Start: 32 @33069 has 7 MA's), (Start: 46 @33015 has 208 MA's), (Start: 63 @32979 has 4 MA's), (114, 32793), (126, 32688), (164, 32586), (204, 32469), (208, 32454), (223, 32358),

Gene: HortumSL17_49 Start: 33024, Stop: 32320, Start Num: 44

Candidate Starts for HortumSL17_49:

(Start: 44 @33024 has 296 MA's), (70, 32979), (72, 32976), (73, 32973), (114, 32832), (115, 32817), (121, 32769), (126, 32727), (204, 32508), (208, 32493),

Gene: Houdini22_48 Start: 32785, Stop: 32066, Start Num: 46

Candidate Starts for Houdini22_48:

(Start: 46 @32785 has 208 MA's), (115, 32557), (121, 32509), (133, 32434), (139, 32413), (140, 32410), (191, 32314), (201, 32260), (204, 32248), (208, 32233), (210, 32227),

Gene: HuhtaEnerson15_42 Start: 31952, Stop: 31239, Start Num: 46

Candidate Starts for HuhtaEnerson15_42:

(Start: 46 @31952 has 208 MA's), (70, 31904), (83, 31874), (121, 31673), (126, 31631), (127, 31628), (145, 31562), (165, 31526), (194, 31475), (198, 31466), (204, 31418), (208, 31403), (213, 31367), (223, 31307),

Gene: Hutc2_49 Start: 32187, Stop: 31474, Start Num: 44

Candidate Starts for Hutc2_49:

(Start: 44 @32187 has 296 MA's), (73, 32136), (121, 31914), (126, 31872), (184, 31731), (198, 31701), (201, 31665), (204, 31653), (208, 31638), (210, 31632), (223, 31542),

Gene: ICleared_48 Start: 32810, Stop: 32091, Start Num: 46

Candidate Starts for ICleared_48:

(Start: 46 @32810 has 208 MA's), (115, 32582), (121, 32534), (133, 32459), (139, 32438), (140, 32435), (191, 32339), (201, 32285), (204, 32273), (208, 32258), (210, 32252),

Gene: Ibantik_22 Start: 10154, Stop: 9441, Start Num: 46

Candidate Starts for Ibantik_22:

(Start: 46 @10154 has 208 MA's), (67, 10103), (79, 10079), (117, 9902), (126, 9827), (127, 9824), (128, 9809), (187, 9698), (193, 9686), (207, 9614), (208, 9608), (209, 9605),

Gene: Iceman_48 Start: 33067, Stop: 32348, Start Num: 46

Candidate Starts for Iceman_48:

(Start: 46 @33067 has 208 MA's), (115, 32839), (121, 32791), (139, 32695), (140, 32692), (191, 32596), (201, 32542), (204, 32530), (208, 32515), (210, 32509),

Gene: Idleandcovert_50 Start: 33076, Stop: 32348, Start Num: 46

Candidate Starts for Idleandcovert_50:

(28, 33145), (Start: 46 @33076 has 208 MA's), (109, 32896), (114, 32854), (126, 32749), (127, 32746), (164, 32647), (187, 32602), (204, 32530), (208, 32515),

Gene: Indra_54 Start: 32238, Stop: 31510, Start Num: 44

Candidate Starts for Indra_54:

(Start: 44 @32238 has 296 MA's), (70, 32193), (115, 32001), (121, 31953), (126, 31911), (127, 31908), (145, 31842), (171, 31806), (196, 31755), (198, 31746), (204, 31698), (208, 31683), (224, 31584),

Gene: Insomnia_50 Start: 32692, Stop: 31979, Start Num: 44

Candidate Starts for Insomnia_50:

(Start: 44 @32692 has 296 MA's), (73, 32641), (121, 32419), (126, 32377), (184, 32236), (198, 32206), (201, 32170), (204, 32158), (208, 32143), (210, 32137), (223, 32047),

Gene: Iracema64_49 Start: 33045, Stop: 32326, Start Num: 46

Candidate Starts for Iracema64_49:

(Start: 46 @33045 has 208 MA's), (115, 32817), (121, 32769), (133, 32694), (139, 32673), (140, 32670), (191, 32574), (201, 32520), (204, 32508), (208, 32493), (210, 32487),

Gene: IronMan_49 Start: 34206, Stop: 33481, Start Num: 44

Candidate Starts for IronMan_49:

(Start: 44 @34206 has 296 MA's), (70, 34161), (115, 33972), (121, 33924), (126, 33882), (127, 33879), (131, 33855), (162, 33783), (167, 33777), (186, 33738), (187, 33735), (198, 33711), (204, 33663), (208, 33648), (210, 33642), (223, 33552),

Gene: Isca_48 Start: 32511, Stop: 31777, Start Num: 46

Candidate Starts for Isca_48:

(Start: 46 @32511 has 208 MA's), (114, 32283), (126, 32178), (127, 32175), (143, 32121), (164, 32076), (187, 32031), (204, 31959), (208, 31944), (223, 31848),

Gene: Isiphiwo_49 Start: 31619, Stop: 30885, Start Num: 44

Candidate Starts for Isiphiwo_49:

(Start: 44 @31619 has 296 MA's), (70, 31574), (87, 31538), (115, 31382), (126, 31292), (127, 31289), (139, 31238), (186, 31148), (187, 31145), (198, 31121), (204, 31073), (208, 31058), (210, 31052), (224, 30959),

Gene: Iwokeuplikedis_52 Start: 33124, Stop: 32420, Start Num: 44

Candidate Starts for Iwokeuplikedis_52:

(Start: 44 @33124 has 296 MA's), (115, 32917), (121, 32869), (123, 32857), (126, 32827), (127, 32824), (131, 32800), (133, 32794), (187, 32680), (204, 32608), (208, 32593), (210, 32587), (223, 32497),

Gene: JHC117_52 Start: 33205, Stop: 32498, Start Num: 44

Candidate Starts for JHC117_52:

(Start: 44 @33205 has 296 MA's), (114, 33013), (126, 32908), (133, 32875), (204, 32680), (208, 32665),

Gene: JSwag_51 Start: 31511, Stop: 30810, Start Num: 43

Candidate Starts for JSwag_51:

(Start: 43 @31511 has 20 MA's), (76, 31454), (115, 31295), (126, 31205), (127, 31202), (132, 31175), (156, 31118), (204, 30992), (208, 30977),

Gene: Jaan_49 Start: 34372, Stop: 33647, Start Num: 44

Candidate Starts for Jaan_49:

(Start: 44 @34372 has 296 MA's), (70, 34327), (115, 34138), (121, 34090), (126, 34048), (127, 34045), (147, 33982), (166, 33946), (167, 33943), (198, 33877), (201, 33841), (204, 33829), (208, 33814),

Gene: Jabiru_42 Start: 31562, Stop: 30858, Start Num: 46

Candidate Starts for Jabiru_42:

(Start: 46 @31562 has 208 MA's), (123, 31286), (126, 31256), (127, 31253), (137, 31211), (172, 31139), (204, 31037), (208, 31022), (213, 30986), (223, 30926),

Gene: Jabith_50 Start: 32693, Stop: 31980, Start Num: 44

Candidate Starts for Jabith_50:

(Start: 44 @32693 has 296 MA's), (73, 32642), (121, 32420), (126, 32378), (184, 32237), (198, 32207), (201, 32171), (204, 32159), (208, 32144), (210, 32138), (223, 32048),

Gene: Jaykayelowell_46 Start: 32774, Stop: 32055, Start Num: 46

Candidate Starts for Jaykayelowell_46:

(Start: 46 @32774 has 208 MA's), (115, 32546), (121, 32498), (133, 32423), (139, 32402), (140, 32399), (191, 32303), (201, 32249), (204, 32237), (208, 32222), (210, 32216),

Gene: JeanGrey_19 Start: 9759, Stop: 10466, Start Num: 59

Candidate Starts for JeanGrey_19:

(59, 9759), (87, 9822), (92, 9834), (125, 10065), (135, 10119), (195, 10236), (198, 10248), (204, 10296), (212, 10341), (221, 10398), (235, 10449),

Gene: Jeffabunny_51 Start: 31894, Stop: 31166, Start Num: 44

Candidate Starts for Jeffabunny_51:

(Start: 44 @31894 has 296 MA's), (70, 31849), (115, 31657), (121, 31609), (126, 31567), (127, 31564), (145, 31498), (171, 31462), (196, 31411), (198, 31402), (204, 31354), (208, 31339), (224, 31240),

Gene: JenCasNa_53 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for JenCasNa_53:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: JeppNRM_53 Start: 33098, Stop: 32400, Start Num: 44

Candidate Starts for JeppNRM_53:

(30, 33158), (Start: 44 @33098 has 296 MA's), (114, 32906), (126, 32801), (127, 32798), (142, 32747), (198, 32630), (204, 32582), (208, 32567),

Gene: Jerm_51 Start: 33607, Stop: 32882, Start Num: 44

Candidate Starts for Jerm_51:

(Start: 44 @33607 has 296 MA's), (115, 33373), (126, 33283), (127, 33280), (167, 33178), (198, 33112), (204, 33064), (208, 33049), (210, 33043),

Gene: Jester_38 Start: 29106, Stop: 28345, Start Num: 45

Candidate Starts for Jester_38:

(Start: 27 @29178 has 8 MA's), (Start: 45 @29106 has 28 MA's), (115, 28854), (121, 28806), (128, 28746), (135, 28725), (151, 28674), (179, 28614), (187, 28599), (208, 28512), (211, 28494), (220, 28428), (223, 28416),

Gene: JetBlade_48 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for JetBlade_48:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: JewelBug_52 Start: 32255, Stop: 31518, Start Num: 44

Candidate Starts for JewelBug_52:

(Start: 44 @32255 has 296 MA's), (70, 32210), (115, 32018), (128, 31910), (140, 31868), (186, 31781), (204, 31706), (208, 31691), (210, 31685), (224, 31592),

Gene: Jobu08_51 Start: 33038, Stop: 32331, Start Num: 44

Candidate Starts for Jobu08_51:

(Start: 44 @33038 has 296 MA's), (114, 32846), (126, 32741), (204, 32513), (208, 32498),

Gene: JonJames_113 Start: 65373, Stop: 66119, Start Num: 49

Candidate Starts for JonJames_113:

(Start: 49 @65373 has 4 MA's), (Start: 52 @65379 has 5 MA's), (62, 65391), (65, 65400), (68, 65406), (85, 65439), (101, 65490), (107, 65523), (124, 65679), (128, 65724), (136, 65739), (161, 65778), (167, 65790), (193, 65850), (198, 65862), (210, 65931), (211, 65943), (212, 65955), (233, 66054), (239, 66105),

Gene: JoongJeon_47 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for JoongJeon_47:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Jordennis_51 Start: 31769, Stop: 31035, Start Num: 44

Candidate Starts for Jordennis_51:

(Start: 44 @31769 has 296 MA's), (70, 31724), (87, 31688), (115, 31532), (126, 31442), (127, 31439), (139, 31388), (186, 31298), (187, 31295), (198, 31271), (204, 31223), (208, 31208), (210, 31202), (224, 31109),

Gene: Joselito_50 Start: 32638, Stop: 31919, Start Num: 44

Candidate Starts for Joselito_50:

(Start: 44 @32638 has 296 MA's), (70, 32593), (115, 32401), (121, 32353), (126, 32311), (127, 32308), (145, 32242), (171, 32206), (196, 32155), (198, 32146), (204, 32098), (208, 32083), (223, 31987),

Gene: JoshKayV_51 Start: 33688, Stop: 32963, Start Num: 44

Candidate Starts for JoshKayV_51:

(Start: 44 @33688 has 296 MA's), (115, 33454), (126, 33364), (127, 33361), (142, 33310), (198, 33193), (204, 33145), (208, 33130), (210, 33124), (223, 33034),

Gene: Journey13_43 Start: 31444, Stop: 30737, Start Num: 44

Candidate Starts for Journey13_43:

(Start: 44 @31444 has 296 MA's), (121, 31186), (122, 31183), (123, 31174), (126, 31144), (127, 31141), (130, 31120), (174, 31018), (204, 30925), (208, 30910), (223, 30814),

Gene: Jovo_41 Start: 31999, Stop: 31280, Start Num: 46

Candidate Starts for Jovo_41:

(Start: 46 @31999 has 208 MA's), (73, 31945), (83, 31921), (99, 31897), (116, 31765), (140, 31621), (193, 31522), (204, 31459), (208, 31444), (213, 31408), (222, 31351),

Gene: Jsquared_47 Start: 31938, Stop: 31240, Start Num: 44

Candidate Starts for Jsquared_47:

(Start: 44 @31938 has 296 MA's), (79, 31872), (115, 31707), (121, 31659), (128, 31599), (143, 31560), (193, 31485), (204, 31422), (208, 31407),

Gene: JustBecause_6 Start: 3465, Stop: 2683, Start Num: 52

Candidate Starts for JustBecause_6:

(31, 3534), (Start: 52 @3465 has 5 MA's), (56, 3456), (62, 3444), (65, 3435), (110, 3270), (112, 3237), (124, 3138), (128, 3090), (153, 3030), (162, 3018), (171, 3000), (181, 2979), (200, 2910), (206, 2886), (208, 2874), (227, 2766), (240, 2688),

Gene: KADY_52 Start: 33237, Stop: 32530, Start Num: 44

Candidate Starts for KADY_52:

(Start: 44 @33237 has 296 MA's), (114, 33045), (204, 32712), (208, 32697),

Gene: KFPoly_47 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for KFPoly_47:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: Kalb97_53 Start: 33096, Stop: 32398, Start Num: 44

Candidate Starts for Kalb97_53:

(30, 33156), (Start: 44 @33096 has 296 MA's), (114, 32904), (126, 32799), (127, 32796), (142, 32745), (198, 32628), (204, 32580), (208, 32565),

Gene: Kalnoky_53 Start: 33094, Stop: 32396, Start Num: 44

Candidate Starts for Kalnoky_53:

(30, 33154), (Start: 44 @33094 has 296 MA's), (114, 32902), (126, 32797), (127, 32794), (142, 32743), (198, 32626), (204, 32578), (208, 32563),

Gene: Kalpine_47 Start: 33330, Stop: 32599, Start Num: 44

Candidate Starts for Kalpine_47:

(Start: 44 @33330 has 296 MA's), (70, 33285), (115, 33096), (121, 33048), (126, 33006), (127, 33003), (142, 32952), (198, 32835), (204, 32787), (208, 32772), (213, 32736), (223, 32676),

Gene: Kampy_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Kampy_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Katalie136_47 Start: 32757, Stop: 32038, Start Num: 46

Candidate Starts for Katalie136_47:

(Start: 46 @32757 has 208 MA's), (115, 32529), (121, 32481), (127, 32436), (139, 32385), (140, 32382), (141, 32379), (191, 32286), (198, 32268), (204, 32220), (208, 32205),

Gene: KatherineG_53 Start: 32002, Stop: 31304, Start Num: 43

Candidate Starts for KatherineG_53:

(Start: 43 @32002 has 20 MA's), (76, 31945), (115, 31786), (126, 31696), (127, 31693), (153, 31615), (204, 31486), (208, 31471),

Gene: Kazan_52 Start: 32091, Stop: 31354, Start Num: 44

Candidate Starts for Kazan_52:

(Start: 44 @32091 has 296 MA's), (70, 32046), (115, 31854), (128, 31746), (140, 31704), (186, 31617), (204, 31542), (208, 31527), (210, 31521), (224, 31428),

Gene: Kela_6 Start: 3456, Stop: 2674, Start Num: 52

Candidate Starts for Kela_6:

(31, 3525), (Start: 52 @3456 has 5 MA's), (56, 3447), (62, 3435), (65, 3426), (110, 3261), (112, 3228), (120, 3156), (124, 3129), (128, 3081), (153, 3021), (162, 3009), (171, 2991), (181, 2970), (200, 2901), (206, 2877), (208, 2865), (227, 2757), (240, 2679),

Gene: Kerberos_51 Start: 32822, Stop: 32115, Start Num: 44

Candidate Starts for Kerberos_51:

(Start: 44 @32822 has 296 MA's), (114, 32627), (115, 32612), (126, 32522), (127, 32519), (137, 32477), (204, 32303), (208, 32288), (223, 32192),

Gene: Keziacharles14_49 Start: 34058, Stop: 33357, Start Num: 44

Candidate Starts for Keziacharles14_49:

(Start: 44 @34058 has 296 MA's), (114, 33863), (115, 33848), (126, 33758), (131, 33731), (147, 33692), (156, 33671), (157, 33668), (186, 33614), (204, 33539), (208, 33524), (210, 33518), (217, 33467),

Gene: Kimchi1738_9 Start: 4740, Stop: 5513, Start Num: 54

Candidate Starts for Kimchi1738_9:

(Start: 54 @4740 has 8 MA's), (59, 4752), (70, 4776), (77, 4794), (118, 5016), (128, 5100), (129, 5103), (162, 5184), (183, 5214), (202, 5280), (207, 5298), (208, 5304), (211, 5322), (212, 5334),

Gene: Kimona_48 Start: 31365, Stop: 30673, Start Num: 44

Candidate Starts for Kimona_48:

(Start: 44 @31365 has 296 MA's), (115, 31161), (126, 31071), (127, 31068), (208, 30837), (223, 30741),

Gene: KingCyrus_51 Start: 34805, Stop: 34080, Start Num: 44

Candidate Starts for KingCyrus_51:

(Start: 44 @34805 has 296 MA's), (126, 34481), (127, 34478), (162, 34382), (167, 34376), (198, 34310), (204, 34262), (208, 34247), (210, 34241),

Gene: Kingmustik0402_48 Start: 32770, Stop: 32051, Start Num: 46

Candidate Starts for Kingmustik0402_48:

(4, 33106), (6, 33094), (8, 33025), (11, 33013), (12, 33010), (13, 33001), (14, 32980), (Start: 46 @32770 has 208 MA's), (115, 32542), (121, 32494), (133, 32419), (139, 32398), (140, 32395), (191, 32299), (201, 32245), (204, 32233), (208, 32218), (210, 32212),

Gene: Kipper29_51 Start: 32104, Stop: 31367, Start Num: 44

Candidate Starts for Kipper29_51:

(Start: 44 @32104 has 296 MA's), (70, 32059), (115, 31867), (128, 31759), (140, 31717), (186, 31630), (204, 31555), (208, 31540), (210, 31534), (224, 31441),

Gene: KittenMittens_44 Start: 31690, Stop: 30962, Start Num: 44

Candidate Starts for KittenMittens_44:

(Start: 44 @31690 has 296 MA's), (Start: 46 @31684 has 208 MA's), (115, 31453), (121, 31405), (126, 31363), (127, 31360), (135, 31324), (143, 31297), (204, 31144), (208, 31129), (223, 31033),

Gene: Koduck_49 Start: 32263, Stop: 31532, Start Num: 44

Candidate Starts for Koduck_49:

(Start: 44 @32263 has 296 MA's), (70, 32218), (115, 32023), (121, 31975), (125, 31945), (126, 31933), (127, 31930), (128, 31915), (166, 31831), (198, 31762), (204, 31714), (208, 31699), (223, 31603),

Gene: Koko_52 Start: 32224, Stop: 31487, Start Num: 44

Candidate Starts for Koko_52:

(Start: 44 @32224 has 296 MA's), (70, 32179), (115, 31987), (121, 31939), (127, 31894), (143, 31828), (204, 31675), (208, 31660), (224, 31561),

Gene: Koreni_47 Start: 32462, Stop: 31743, Start Num: 46

Candidate Starts for Koreni_47:

(Start: 46 @32462 has 208 MA's), (115, 32234), (121, 32186), (133, 32111), (139, 32090), (140, 32087), (191, 31991), (201, 31937), (204, 31925), (208, 31910), (210, 31904),

Gene: Kradal_6 Start: 3780, Stop: 2992, Start Num: 52

Candidate Starts for Kradal_6:

(34, 3849), (Start: 52 @3780 has 5 MA's), (56, 3771), (62, 3759), (115, 3513), (120, 3474), (128, 3399), (171, 3309), (181, 3288), (200, 3219), (206, 3195), (208, 3183), (220, 3099), (227, 3075), (240, 2997),

Gene: Kratak_48 Start: 32944, Stop: 32225, Start Num: 46

Candidate Starts for Kratak_48:

(Start: 46 @32944 has 208 MA's), (70, 32899), (115, 32716), (139, 32572), (140, 32569), (191, 32473), (204, 32407), (208, 32392),

Gene: Kremtemulon_46 Start: 32732, Stop: 32013, Start Num: 46

Candidate Starts for Kremtemulon_46:

(Start: 46 @32732 has 208 MA's), (115, 32504), (121, 32456), (133, 32381), (139, 32360), (140, 32357), (191, 32261), (201, 32207), (204, 32195), (208, 32180), (210, 32174),

Gene: Krishelle_38 Start: 29533, Stop: 28772, Start Num: 45

Candidate Starts for Krishelle_38:

(Start: 45 @29533 has 28 MA's), (115, 29281), (121, 29233), (128, 29173), (135, 29152), (151, 29101), (179, 29041), (187, 29026), (208, 28939), (211, 28921),

Gene: Kristoff_47 Start: 32787, Stop: 32050, Start Num: 44

Candidate Starts for Kristoff_47:

(Start: 44 @32787 has 296 MA's), (Start: 46 @32781 has 208 MA's), (115, 32541), (121, 32493), (126, 32451), (127, 32448), (146, 32379), (166, 32346), (191, 32298), (204, 32232), (208, 32217), (210, 32211), (213, 32181), (223, 32121),

Gene: Kudetre_109 Start: 60671, Stop: 61387, Start Num: 61

Candidate Starts for Kudetre_109:

(Start: 61 @60671 has 4 MA's), (88, 60734), (104, 60779), (106, 60782), (115, 60890), (120, 60929), (124, 60956), (125, 60971), (137, 61031), (186, 61112), (201, 61169), (212, 61226), (214, 61235), (219, 61271), (230, 61310), (233, 61325), (237, 61343),

Gene: Kumao_7 Start: 2568, Stop: 1870, Start Num: 44

Candidate Starts for Kumao_7:

(Start: 44 @2568 has 296 MA's), (112, 2391), (127, 2265), (128, 2250), (147, 2202), (157, 2178), (198, 2097), (204, 2049), (208, 2034), (213, 1998),

Gene: Kyee_48 Start: 32779, Stop: 32060, Start Num: 46

Candidate Starts for Kyee_48:

(Start: 46 @32779 has 208 MA's), (115, 32551), (121, 32503), (133, 32428), (139, 32407), (140, 32404), (191, 32308), (201, 32254), (204, 32242), (208, 32227), (210, 32221),

Gene: L5_48 Start: 32338, Stop: 31607, Start Num: 44

Candidate Starts for L5_48:

(Start: 44 @32338 has 296 MA's), (70, 32293), (115, 32098), (121, 32050), (125, 32020), (126, 32008), (127, 32005), (128, 31990), (166, 31906), (198, 31837), (204, 31789), (208, 31774), (223, 31678),

Gene: LBerry_53 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for LBerry_53:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: LHTSCC_50 Start: 33203, Stop: 32484, Start Num: 46

Candidate Starts for LHTSCC_50:

(Start: 46 @33203 has 208 MA's), (70, 33158), (115, 32975), (121, 32927), (139, 32831), (140, 32828), (201, 32678), (204, 32666), (208, 32651), (210, 32645),

Gene: LadyBird_54 Start: 33923, Stop: 33195, Start Num: 44

Candidate Starts for LadyBird_54:

(Start: 44 @33923 has 296 MA's), (115, 33686), (126, 33596), (127, 33593), (198, 33425), (204, 33377), (208, 33362), (210, 33356), (223, 33266),

Gene: Lambert1_48 Start: 33068, Stop: 32286, Start Num: 32

Candidate Starts for Lambert1_48:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Landor_49 Start: 34284, Stop: 33559, Start Num: 44

Candidate Starts for Landor_49:

(Start: 44 @34284 has 296 MA's), (70, 34239), (115, 34050), (121, 34002), (126, 33960), (127, 33957), (198, 33789), (201, 33753), (204, 33741), (208, 33726),

Gene: LappelDuVide_47 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for LappelDuVide_47:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Larenn_48 Start: 33223, Stop: 32495, Start Num: 44

Candidate Starts for Larenn_48:

(Start: 44 @33223 has 296 MA's), (70, 33178), (115, 32986), (121, 32938), (126, 32896), (127, 32893), (198, 32725), (204, 32677), (208, 32662), (210, 32656), (213, 32626), (223, 32566),

Gene: LarryKay_52 Start: 33239, Stop: 32532, Start Num: 44

Candidate Starts for LarryKay_52:

(Start: 44 @33239 has 296 MA's), (114, 33047), (204, 32714), (208, 32699),

Gene: LastResort_51 Start: 31563, Stop: 30865, Start Num: 43

Candidate Starts for LastResort_51:

(Start: 43 @31563 has 20 MA's), (76, 31506), (115, 31347), (126, 31257), (127, 31254), (153, 31176), (204, 31047), (208, 31032),

Gene: Lemur_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Lemur_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: LeoAvram_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for LeoAvram_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Leogania_49 Start: 34245, Stop: 33511, Start Num: 44

Candidate Starts for Leogania_49:

(Start: 44 @34245 has 296 MA's), (115, 34008), (121, 33960), (126, 33918), (127, 33915), (198, 33747), (204, 33699), (208, 33684), (210, 33678), (213, 33648),

Gene: Lev2_41 Start: 31631, Stop: 30912, Start Num: 46

Candidate Starts for Lev2_41:

(Start: 46 @31631 has 208 MA's), (73, 31577), (83, 31553), (99, 31529), (116, 31397), (140, 31253), (193, 31154), (204, 31091), (208, 31076), (213, 31040), (222, 30983),

Gene: Leviathan_51 Start: 33663, Stop: 32938, Start Num: 44

Candidate Starts for Leviathan_51:

(Start: 44 @33663 has 296 MA's), (115, 33429), (123, 33369), (126, 33339), (127, 33336), (167, 33234), (198, 33168), (204, 33120), (208, 33105), (210, 33099),

Gene: LilTurb_50 Start: 33496, Stop: 32771, Start Num: 44

Candidate Starts for LilTurb_50:

(Start: 44 @33496 has 296 MA's), (115, 33262), (126, 33172), (127, 33169), (167, 33067), (198, 33001), (204, 32953), (208, 32938), (210, 32932),

Gene: Lilbooboo_41 Start: 31881, Stop: 32585, Start Num: 46

Candidate Starts for Lilbooboo_41:

(Start: 46 @31881 has 208 MA's), (115, 32106), (120, 32145), (137, 32244), (150, 32274), (174, 32310), (187, 32331), (208, 32418), (222, 32511), (223, 32514),

Gene: Lilbunny_49 Start: 31868, Stop: 31140, Start Num: 44

Candidate Starts for Lilbunny_49:

(Start: 44 @31868 has 296 MA's), (70, 31823), (115, 31631), (121, 31583), (126, 31541), (127, 31538), (145, 31472), (171, 31436), (196, 31385), (198, 31376), (204, 31328), (208, 31313), (224, 31214),

Gene: Lilit_53 Start: 33199, Stop: 32492, Start Num: 44

Candidate Starts for Lilit_53:

(Start: 44 @33199 has 296 MA's), (114, 33007), (126, 32902), (133, 32869), (204, 32674), (208, 32659),

Gene: Lillie_38 Start: 29242, Stop: 28409, Start Num: 27

Candidate Starts for Lillie_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (143, 28762), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: LittleB_48 Start: 32782, Stop: 32063, Start Num: 46

Candidate Starts for LittleB_48:

(Start: 46 @32782 has 208 MA's), (115, 32554), (121, 32506), (133, 32431), (139, 32410), (140, 32407), (191, 32311), (201, 32257), (204, 32245), (208, 32230), (210, 32224),

Gene: LittleCherry_42 Start: 31971, Stop: 31249, Start Num: 46

Candidate Starts for LittleCherry_42:

(21, 32082), (Start: 46 @31971 has 208 MA's), (70, 31923), (83, 31893), (123, 31680), (167, 31536), (204, 31428), (208, 31413), (213, 31377), (223, 31317),

Gene: LittleGuy_48 Start: 32677, Stop: 31958, Start Num: 46

Candidate Starts for LittleGuy_48:

(Start: 46 @32677 has 208 MA's), (115, 32449), (121, 32401), (133, 32326), (139, 32305), (140, 32302), (191, 32206), (201, 32152), (204, 32140), (208, 32125), (210, 32119),

Gene: LochMonster_49 Start: 33017, Stop: 32298, Start Num: 46

Candidate Starts for LochMonster_49:

(Start: 46 @33017 has 208 MA's), (115, 32789), (121, 32741), (133, 32666), (139, 32645), (140, 32642), (191, 32546), (201, 32492), (204, 32480), (208, 32465), (210, 32459),

Gene: LoneWolf_50 Start: 33013, Stop: 32309, Start Num: 44

Candidate Starts for LoneWolf_50:

(Start: 44 @33013 has 296 MA's), (72, 32965), (73, 32962), (114, 32821), (115, 32806), (126, 32716), (204, 32497), (208, 32482),

Gene: Looper_52 Start: 31540, Stop: 30842, Start Num: 43

Candidate Starts for Looper_52:

(Start: 43 @31540 has 20 MA's), (76, 31483), (115, 31324), (126, 31234), (127, 31231), (153, 31153), (204, 31024), (208, 31009),

Gene: Lorenzo_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Lorenzo_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Loser_51 Start: 34033, Stop: 33299, Start Num: 44

Candidate Starts for Loser_51:

(Start: 44 @34033 has 296 MA's), (70, 33988), (115, 33796), (121, 33748), (126, 33706), (142, 33652), (167, 33601), (204, 33487), (208, 33472), (210, 33466), (213, 33436), (224, 33373),

Gene: Louie6_51 Start: 33238, Stop: 32531, Start Num: 44

Candidate Starts for Louie6_51:

(Start: 44 @33238 has 296 MA's), (114, 33046), (204, 32713), (208, 32698),

Gene: Lucivia_50 Start: 32687, Stop: 31968, Start Num: 44

Candidate Starts for Lucivia_50:

(Start: 44 @32687 has 296 MA's), (70, 32642), (115, 32450), (121, 32402), (126, 32360), (127, 32357), (145, 32291), (171, 32255), (196, 32204), (198, 32195), (204, 32147), (208, 32132), (223, 32036),

Gene: LuckySocke_162 Start: 85689, Stop: 86399, Start Num: 46

Candidate Starts for LuckySocke_162:

(Start: 46 @85689 has 208 MA's), (58, 85719), (70, 85740), (105, 85809), (108, 85851), (119, 85950), (120, 85959), (123, 85983), (130, 86037), (143, 86070), (202, 86211), (205, 86223), (209, 86238), (213, 86271), (226, 86340),

Gene: Lucyedi_50 Start: 32813, Stop: 32070, Start Num: 44

Candidate Starts for Lucyedi_50:

(Start: 44 @32813 has 296 MA's), (126, 32486), (127, 32483), (137, 32441), (204, 32258), (208, 32243),

Gene: LugYA_55 Start: 33207, Stop: 32500, Start Num: 44

Candidate Starts for LugYA_55:

(Start: 44 @33207 has 296 MA's), (114, 33015), (126, 32910), (133, 32877), (204, 32682), (208, 32667),

Gene: Lunsford_49 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for Lunsford_49:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: MA5_49 Start: 32411, Stop: 31680, Start Num: 46

Candidate Starts for MA5_49:

(Start: 46 @32411 has 208 MA's), (Start: 63 @32375 has 4 MA's), (115, 32168), (126, 32078), (164, 31976), (204, 31859), (208, 31844), (213, 31808),

Gene: MK4_49 Start: 32496, Stop: 31762, Start Num: 46

Candidate Starts for MK4_49:

(Start: 46 @32496 has 208 MA's), (114, 32268), (126, 32163), (127, 32160), (143, 32106), (164, 32061), (187, 32016), (204, 31944), (208, 31929), (223, 31833),

Gene: MaCh_50 Start: 32620, Stop: 31907, Start Num: 44

Candidate Starts for MaCh_50:

(Start: 44 @32620 has 296 MA's), (73, 32569), (121, 32347), (123, 32335), (127, 32302), (128, 32287), (147, 32239), (157, 32215), (198, 32134), (204, 32086), (208, 32071), (213, 32035), (223,

31975),

Gene: Mabel_49 Start: 32222, Stop: 31509, Start Num: 44

Candidate Starts for Mabel_49:

(Start: 44 @32222 has 296 MA's), (73, 32171), (121, 31949), (126, 31907), (184, 31766), (198, 31736), (201, 31700), (202, 31697), (204, 31688), (208, 31673), (210, 31667), (223, 31577),

Gene: MacGully_21 Start: 8379, Stop: 9269, Start Num: 38

Candidate Starts for MacGully_21:

(3, 8028), (Start: 38 @8379 has 1 MA's), (128, 8775), (133, 8790), (139, 8814), (148, 8838), (209, 9078), (210, 9081),

Gene: MadMarie_52 Start: 33208, Stop: 32501, Start Num: 44

Candidate Starts for MadMarie_52:

(Start: 44 @33208 has 296 MA's), (114, 33016), (126, 32911), (133, 32878), (204, 32683), (208, 32668),

Gene: Mainiac_52 Start: 33200, Stop: 32493, Start Num: 44

Candidate Starts for Mainiac_52:

(Start: 44 @33200 has 296 MA's), (114, 33008), (126, 32903), (133, 32870), (204, 32675), (208, 32660),

Gene: Malec_49 Start: 33787, Stop: 33059, Start Num: 44

Candidate Starts for Malec_49:

(Start: 44 @33787 has 296 MA's), (70, 33742), (115, 33550), (121, 33502), (126, 33460), (127, 33457), (198, 33289), (204, 33241), (208, 33226), (210, 33220), (213, 33190), (223, 33130),

Gene: Malinsilva_54 Start: 33198, Stop: 32491, Start Num: 44

Candidate Starts for Malinsilva_54:

(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: Maminiaina_48 Start: 32777, Stop: 32073, Start Num: 44

Candidate Starts for Maminiaina_48:

(Start: 44 @32777 has 296 MA's), (72, 32729), (73, 32726), (114, 32585), (115, 32570), (121, 32522), (126, 32480), (204, 32261), (208, 32246), (209, 32243), (210, 32240),

Gene: Manu_52 Start: 33097, Stop: 32399, Start Num: 44

Candidate Starts for Manu_52:

(30, 33157), (Start: 44 @33097 has 296 MA's), (114, 32905), (126, 32800), (127, 32797), (142, 32746), (198, 32629), (204, 32581), (208, 32566),

Gene: MarQuardt_52 Start: 33208, Stop: 32501, Start Num: 44

Candidate Starts for MarQuardt_52:

(Start: 44 @33208 has 296 MA's), (114, 33016), (126, 32911), (133, 32878), (204, 32683), (208, 32668),

Gene: Margo_48 Start: 33094, Stop: 32312, Start Num: 32

Candidate Starts for Margo_48:

(Start: 32 @33094 has 7 MA's), (Start: 46 @33040 has 208 MA's), (Start: 63 @33004 has 4 MA's), (114, 32818), (126, 32713), (164, 32611), (204, 32494), (208, 32479), (223, 32383),

Gene: Marie_52 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for Marie_52:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: Marius_53 Start: 33094, Stop: 32396, Start Num: 44

Candidate Starts for Marius_53:

(30, 33154), (Start: 44 @33094 has 296 MA's), (114, 32902), (126, 32797), (127, 32794), (142, 32743), (198, 32626), (204, 32578), (208, 32563),

Gene: MarysWell_40 Start: 31825, Stop: 31112, Start Num: 46

Candidate Starts for MarysWell_40:

(Start: 46 @31825 has 208 MA's), (70, 31777), (83, 31747), (114, 31609), (130, 31480), (133, 31471), (139, 31450), (187, 31363), (191, 31357), (193, 31354), (204, 31291), (208, 31276), (213, 31240), (222, 31183),

Gene: Maselop_18 Start: 8899, Stop: 9792, Start Num: 37

Candidate Starts for Maselop_18:

(Start: 37 @8899 has 5 MA's), (Start: 61 @8941 has 4 MA's), (72, 8968), (84, 8998), (115, 9172), (139, 9322), (190, 9502), (209, 9592), (215, 9631), (219, 9664),

Gene: Maverick_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Maverick_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Maxo_49 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Maxo_49:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Mazhar510_48 Start: 32782, Stop: 32063, Start Num: 46

Candidate Starts for Mazhar510_48:

(Start: 46 @32782 has 208 MA's), (115, 32554), (121, 32506), (133, 32431), (139, 32410), (140, 32407), (191, 32311), (201, 32257), (204, 32245), (208, 32230), (210, 32224),

Gene: Mbo2_58 Start: 46625, Stop: 45849, Start Num: 38

Candidate Starts for Mbo2_58:

(Start: 38 @46625 has 1 MA's), (Start: 61 @46577 has 4 MA's), (68, 46562), (96, 46499), (115, 46358), (120, 46319), (124, 46292), (128, 46247), (138, 46223), (161, 46187), (167, 46175), (189, 46130), (192, 46118), (204, 46058), (209, 46040), (218, 45974),

Gene: McFly_51 Start: 32085, Stop: 31348, Start Num: 44

Candidate Starts for McFly_51:

(Start: 44 @32085 has 296 MA's), (70, 32040), (115, 31848), (128, 31740), (140, 31698), (186, 31611), (204, 31536), (208, 31521), (210, 31515), (224, 31422),

Gene: Medusa_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Medusa_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: MeeZee_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for MeeZee_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Melvin_50 Start: 32776, Stop: 32057, Start Num: 46

Candidate Starts for Melvin_50:

(Start: 46 @32776 has 208 MA's), (115, 32548), (121, 32500), (133, 32425), (139, 32404), (140, 32401), (191, 32305), (201, 32251), (204, 32239), (208, 32224), (210, 32218),

Gene: Methuselah_48 Start: 33233, Stop: 32526, Start Num: 44

Candidate Starts for Methuselah_48:

(Start: 44 @33233 has 296 MA's), (114, 33041), (204, 32708), (208, 32693),

Gene: Micasa_42 Start: 32101, Stop: 31379, Start Num: 46

Candidate Starts for Micasa_42:

(Start: 46 @32101 has 208 MA's), (70, 32053), (83, 32023), (123, 31810), (127, 31777), (167, 31666), (204, 31558), (208, 31543), (213, 31507), (223, 31447),

Gene: Microwolf_52 Start: 33207, Stop: 32500, Start Num: 44

Candidate Starts for Microwolf_52:

(Start: 44 @33207 has 296 MA's), (114, 33015), (126, 32910), (133, 32877), (204, 32682), (208, 32667),

Gene: MiculUcigas_49 Start: 33020, Stop: 32292, Start Num: 44

Candidate Starts for MiculUcigas_49:

(Start: 44 @33020 has 296 MA's), (115, 32783), (121, 32735), (126, 32693), (127, 32690), (198, 32522), (204, 32474), (208, 32459), (210, 32453),

Gene: Midas2_41 Start: 31816, Stop: 31097, Start Num: 46

Candidate Starts for Midas2_41:

(Start: 46 @31816 has 208 MA's), (73, 31762), (83, 31738), (99, 31714), (116, 31582), (140, 31438), (193, 31339), (204, 31276), (208, 31261), (213, 31225), (222, 31168),

Gene: Miko_46 Start: 33176, Stop: 32445, Start Num: 44

Candidate Starts for Miko_46:

(Start: 44 @33176 has 296 MA's), (114, 32957), (121, 32894), (126, 32852), (127, 32849), (204, 32633), (208, 32618), (210, 32612), (223, 32522),

Gene: Milcery_42 Start: 31929, Stop: 31216, Start Num: 46

Candidate Starts for Milcery_42:

(Start: 46 @31929 has 208 MA's), (70, 31881), (83, 31851), (121, 31650), (126, 31608), (127, 31605), (145, 31539), (165, 31503), (194, 31452), (198, 31443), (204, 31395), (208, 31380), (213, 31344), (223, 31284),

Gene: Millski_47 Start: 32782, Stop: 32063, Start Num: 46

Candidate Starts for Millski_47:

(Start: 46 @32782 has 208 MA's), (115, 32554), (121, 32506), (133, 32431), (139, 32410), (140, 32407), (191, 32311), (201, 32257), (204, 32245), (208, 32230), (210, 32224),

Gene: MinecraftSteve_53 Start: 31802, Stop: 31074, Start Num: 43

Candidate Starts for MinecraftSteve_53:

(Start: 43 @31802 has 20 MA's), (91, 31712), (115, 31556), (126, 31466), (127, 31463), (153, 31385), (204, 31256), (208, 31241),

Gene: Misomonster_53 Start: 33236, Stop: 32529, Start Num: 44
Candidate Starts for Misomonster_53:
(Start: 44 @33236 has 296 MA's), (114, 33044), (204, 32711), (208, 32696),

Gene: MissWhite_48 Start: 31539, Stop: 30817, Start Num: 44
Candidate Starts for MissWhite_48:
(Start: 44 @31539 has 296 MA's), (70, 31494), (115, 31308), (121, 31260), (126, 31218), (127, 31215), (145, 31149), (171, 31113), (196, 31062), (198, 31053), (204, 31005), (208, 30990), (223, 30894),

Gene: ModicumRichard_72 Start: 47212, Stop: 47916, Start Num: 63
Candidate Starts for ModicumRichard_72:
(Start: 63 @47212 has 4 MA's), (99, 47296), (115, 47425), (121, 47473), (123, 47485), (126, 47515), (137, 47560), (187, 47662), (204, 47734), (208, 47749), (213, 47785),

Gene: MoneyMay_52 Start: 33206, Stop: 32499, Start Num: 44
Candidate Starts for MoneyMay_52:
(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: Morgana_76 Start: 48827, Stop: 49531, Start Num: 63
Candidate Starts for Morgana_76:
(15, 48581), (17, 48608), (Start: 63 @48827 has 4 MA's), (115, 49040), (121, 49088), (126, 49130), (142, 49184), (163, 49229), (168, 49241), (186, 49274), (187, 49277), (204, 49349), (208, 49364), (223, 49460),

Gene: Morpher26_47 Start: 32778, Stop: 32059, Start Num: 46
Candidate Starts for Morpher26_47:
(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (127, 32457), (139, 32406), (140, 32403), (141, 32400), (191, 32307), (198, 32289), (204, 32241), (208, 32226),

Gene: Morrow_49 Start: 32787, Stop: 32068, Start Num: 46
Candidate Starts for Morrow_49:
(Start: 46 @32787 has 208 MA's), (115, 32559), (121, 32511), (133, 32436), (139, 32415), (140, 32412), (191, 32316), (201, 32262), (204, 32250), (208, 32235), (210, 32229),

Gene: MuchMore_55 Start: 33198, Stop: 32491, Start Num: 44
Candidate Starts for MuchMore_55:
(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: Mulciber_49 Start: 32184, Stop: 31471, Start Num: 44
Candidate Starts for Mulciber_49:
(Start: 44 @32184 has 296 MA's), (73, 32133), (121, 31911), (126, 31869), (184, 31728), (198, 31698), (201, 31662), (204, 31650), (208, 31635), (210, 31629), (223, 31539),

Gene: Munch_50 Start: 32638, Stop: 31919, Start Num: 44
Candidate Starts for Munch_50:
(Start: 44 @32638 has 296 MA's), (70, 32593), (115, 32401), (121, 32353), (126, 32311), (127, 32308), (145, 32242), (171, 32206), (196, 32155), (198, 32146), (204, 32098), (208, 32083), (223, 31987),

Gene: Mundrea_47 Start: 32765, Stop: 32046, Start Num: 46

Candidate Starts for Mundrea_47:

(29, 32828), (Start: 46 @32765 has 208 MA's), (115, 32537), (133, 32414), (140, 32390), (141, 32387), (191, 32294), (201, 32240), (204, 32228), (208, 32213),

Gene: Myxus_49 Start: 33024, Stop: 32320, Start Num: 44

Candidate Starts for Myxus_49:

(Start: 44 @33024 has 296 MA's), (70, 32979), (72, 32976), (73, 32973), (114, 32832), (115, 32817), (121, 32769), (126, 32727), (204, 32508), (208, 32493),

Gene: NaSiaTalie_49 Start: 33117, Stop: 32389, Start Num: 44

Candidate Starts for NaSiaTalie_49:

(Start: 44 @33117 has 296 MA's), (115, 32880), (121, 32832), (126, 32790), (127, 32787), (198, 32619), (204, 32571), (208, 32556), (210, 32550),

Gene: Naca_43 Start: 32243, Stop: 31527, Start Num: 46

Candidate Starts for Naca_43:

(Start: 46 @32243 has 208 MA's), (73, 32189), (83, 32165), (86, 32162), (114, 32030), (121, 31967), (126, 31925), (127, 31922), (134, 31889), (162, 31823), (198, 31754), (204, 31706), (208, 31691),

Gene: Naiad_38 Start: 29183, Stop: 28422, Start Num: 45

Candidate Starts for Naiad_38:

(Start: 27 @29255 has 8 MA's), (Start: 45 @29183 has 28 MA's), (115, 28931), (121, 28883), (128, 28823), (135, 28802), (143, 28775), (151, 28751), (179, 28691), (187, 28676), (208, 28589), (211, 28571), (220, 28505), (223, 28493),

Gene: Naji_51 Start: 32823, Stop: 32116, Start Num: 44

Candidate Starts for Naji_51:

(Start: 44 @32823 has 296 MA's), (114, 32628), (115, 32613), (126, 32523), (127, 32520), (137, 32478), (204, 32304), (208, 32289), (223, 32193),

Gene: Nancinator_38 Start: 29171, Stop: 28410, Start Num: 45

Candidate Starts for Nancinator_38:

(Start: 27 @29243 has 8 MA's), (Start: 45 @29171 has 28 MA's), (115, 28919), (121, 28871), (128, 28811), (135, 28790), (151, 28739), (179, 28679), (187, 28664), (208, 28577), (211, 28559), (220, 28493), (223, 28481),

Gene: Natosaleda_38 Start: 29170, Stop: 28409, Start Num: 45

Candidate Starts for Natosaleda_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: Nebkiss_89 Start: 52422, Stop: 53147, Start Num: 46

Candidate Starts for Nebkiss_89:

(Start: 46 @52422 has 208 MA's), (115, 52656), (121, 52704), (127, 52749), (128, 52764), (166, 52848), (204, 52965), (208, 52980), (213, 53016), (220, 53064), (223, 53076), (224, 53079), (227, 53088),

Gene: Nebs_49 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Nebs_49:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Nebulosus_51 Start: 31559, Stop: 30861, Start Num: 43

Candidate Starts for Nebulosus_51:

(Start: 43 @31559 has 20 MA's), (76, 31502), (115, 31343), (126, 31253), (127, 31250), (153, 31172), (204, 31043), (208, 31028),

Gene: Nedarya_47 Start: 31008, Stop: 30265, Start Num: 43

Candidate Starts for Nedarya_47:

(Start: 43 @31008 has 20 MA's), (75, 30945), (115, 30762), (126, 30672), (127, 30669), (142, 30618), (204, 30453), (208, 30438),

Gene: Neeharika16_50 Start: 31545, Stop: 30808, Start Num: 44

Candidate Starts for Neeharika16_50:

(Start: 44 @31545 has 296 MA's), (70, 31500), (115, 31308), (121, 31260), (123, 31248), (126, 31218), (127, 31215), (157, 31125), (204, 30996), (208, 30981), (210, 30975), (224, 30882),

Gene: Nemo27_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Nemo27_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Newrala_51 Start: 32093, Stop: 31359, Start Num: 44

Candidate Starts for Newrala_51:

(Start: 44 @32093 has 296 MA's), (70, 32048), (87, 32012), (115, 31856), (126, 31766), (127, 31763), (139, 31712), (186, 31622), (187, 31619), (198, 31595), (204, 31547), (208, 31532), (210, 31526), (224, 31433),

Gene: NicoleTera_48 Start: 33381, Stop: 32650, Start Num: 44

Candidate Starts for NicoleTera_48:

(Start: 44 @33381 has 296 MA's), (82, 33309), (114, 33162), (115, 33147), (121, 33099), (126, 33057), (127, 33054), (198, 32886), (204, 32838), (208, 32823), (210, 32817), (213, 32787),

Gene: Nirvana_8 Start: 4133, Stop: 3351, Start Num: 52

Candidate Starts for Nirvana_8:

(Start: 52 @4133 has 5 MA's), (56, 4124), (62, 4112), (110, 3938), (120, 3833), (128, 3758), (162, 3686), (171, 3668), (181, 3647), (197, 3614), (200, 3578), (206, 3554), (208, 3542), (227, 3434), (240, 3356),

Gene: Noella_48 Start: 33015, Stop: 32287, Start Num: 46

Candidate Starts for Noella_48:

(Start: 32 @33069 has 7 MA's), (Start: 46 @33015 has 208 MA's), (Start: 63 @32979 has 4 MA's), (114, 32793), (126, 32688), (164, 32586), (204, 32469), (208, 32454), (223, 32358),

Gene: Noelle_48 Start: 33067, Stop: 32348, Start Num: 46

Candidate Starts for Noelle_48:

(Start: 46 @33067 has 208 MA's), (115, 32839), (121, 32791), (127, 32746), (139, 32695), (140, 32692), (141, 32689), (191, 32596), (201, 32542), (204, 32530), (208, 32515),

Gene: Norbert_47 Start: 33014, Stop: 32286, Start Num: 46

Candidate Starts for Norbert_47:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: NorthStar_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for NorthStar_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: NotAPhaseMom_48 Start: 32785, Stop: 32066, Start Num: 46

Candidate Starts for NotAPhaseMom_48:

(Start: 46 @32785 has 208 MA's), (115, 32557), (121, 32509), (133, 32434), (139, 32413), (140, 32410), (191, 32314), (201, 32260), (204, 32248), (208, 32233), (210, 32227),

Gene: NothingSpecial_47 Start: 33635, Stop: 32904, Start Num: 44

Candidate Starts for NothingSpecial_47:

(Start: 44 @33635 has 296 MA's), (Start: 60 @33605 has 1 MA's), (115, 33398), (121, 33350), (126, 33308), (127, 33305), (130, 33284), (162, 33209), (198, 33134), (201, 33098), (204, 33086), (208, 33071), (210, 33065), (223, 32975),

Gene: Nyxis_48 Start: 32671, Stop: 31952, Start Num: 46

Candidate Starts for Nyxis_48:

(Start: 46 @32671 has 208 MA's), (115, 32443), (121, 32395), (133, 32320), (139, 32299), (140, 32296), (191, 32200), (201, 32146), (204, 32134), (208, 32119), (210, 32113),

Gene: OKCentral2016_46 Start: 32116, Stop: 31385, Start Num: 46

Candidate Starts for OKCentral2016_46:

(Start: 44 @32122 has 296 MA's), (Start: 46 @32116 has 208 MA's), (113, 31897), (115, 31876), (121, 31828), (126, 31786), (127, 31783), (162, 31687), (208, 31552), (223, 31456),

Gene: OKaNui_48 Start: 32831, Stop: 32112, Start Num: 46

Candidate Starts for OKaNui_48:

(Start: 46 @32831 has 208 MA's), (115, 32603), (121, 32555), (133, 32480), (139, 32459), (140, 32456), (191, 32360), (201, 32306), (204, 32294), (208, 32279), (210, 32273),

Gene: ObLaDi_72 Start: 47184, Stop: 47888, Start Num: 63

Candidate Starts for ObLaDi_72:

(Start: 63 @47184 has 4 MA's), (99, 47268), (115, 47397), (121, 47445), (123, 47457), (126, 47487), (137, 47532), (187, 47634), (204, 47706), (208, 47721), (213, 47757),

Gene: Obama12_49 Start: 33205, Stop: 32486, Start Num: 46

Candidate Starts for Obama12_49:

(Start: 46 @33205 has 208 MA's), (70, 33160), (115, 32977), (121, 32929), (139, 32833), (140, 32830), (201, 32680), (204, 32668), (208, 32653), (210, 32647),

Gene: Octobien14_107 Start: 59811, Stop: 60539, Start Num: 61

Candidate Starts for Octobien14_107:

(Start: 61 @59811 has 4 MA's), (88, 59874), (104, 59919), (106, 59922), (115, 60030), (117, 60048), (120, 60069), (124, 60096), (125, 60111), (137, 60171), (210, 60354), (212, 60378), (214, 60387), (219, 60423), (230, 60462), (233, 60477), (237, 60495),

Gene: Odin_48 Start: 31799, Stop: 31077, Start Num: 44

Candidate Starts for Odin_48:

(Start: 44 @31799 has 296 MA's), (83, 31724), (86, 31721), (122, 31523), (126, 31484), (127, 31481), (137, 31439), (147, 31418), (170, 31373), (204, 31265), (208, 31250), (209, 31247), (210, 31244), (223, 31154),

Gene: Ohfah_49 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Ohfah_49:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: OlanP_51 Start: 33267, Stop: 32569, Start Num: 44

Candidate Starts for OlanP_51:

(30, 33327), (Start: 44 @33267 has 296 MA's), (114, 33075), (126, 32970), (127, 32967), (142, 32916), (162, 32871), (198, 32799), (204, 32751), (208, 32736),

Gene: Ollie_52 Start: 33077, Stop: 32370, Start Num: 44

Candidate Starts for Ollie_52:

(Start: 44 @33077 has 296 MA's), (114, 32885), (126, 32780), (133, 32747), (204, 32552), (208, 32537),

Gene: OneUp_83 Start: 54980, Stop: 55717, Start Num: 51

Candidate Starts for OneUp_83:

(Start: 51 @54980 has 5 MA's), (81, 55037), (101, 55088), (115, 55211), (123, 55274), (124, 55277), (138, 55346), (167, 55388), (212, 55553),

Gene: Oofda_52 Start: 31445, Stop: 30717, Start Num: 43

Candidate Starts for Oofda_52:

(Start: 43 @31445 has 20 MA's), (91, 31355), (115, 31199), (126, 31109), (153, 31028), (204, 30899), (208, 30884), (223, 30788),

Gene: Orange_49 Start: 32187, Stop: 31468, Start Num: 44

Candidate Starts for Orange_49:

(Start: 44 @32187 has 296 MA's), (70, 32142), (115, 31950), (121, 31902), (126, 31860), (127, 31857), (145, 31791), (171, 31755), (196, 31704), (198, 31695), (204, 31647), (208, 31632), (210, 31626), (223, 31536),

Gene: P28Green_53 Start: 33209, Stop: 32502, Start Num: 44

Candidate Starts for P28Green_53:

(Start: 44 @33209 has 296 MA's), (114, 33017), (126, 32912), (133, 32879), (204, 32684), (208, 32669),

Gene: PGHhamlin_54 Start: 33198, Stop: 32491, Start Num: 44

Candidate Starts for PGHhamlin_54:

(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: PackMan_48 Start: 33024, Stop: 32320, Start Num: 44

Candidate Starts for PackMan_48:

(Start: 44 @33024 has 296 MA's), (70, 32979), (72, 32976), (73, 32973), (114, 32832), (115, 32817), (121, 32769), (126, 32727), (204, 32508), (208, 32493),

Gene: PainterBoy_50 Start: 32749, Stop: 32006, Start Num: 44

Candidate Starts for PainterBoy_50:

(Start: 44 @32749 has 296 MA's), (126, 32422), (127, 32419), (137, 32377), (204, 32194), (208, 32179),

Gene: Palestino_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Palestino_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Panamaxus_46 Start: 33014, Stop: 32286, Start Num: 46

Candidate Starts for Panamaxus_46:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Partridge_38 Start: 29332, Stop: 28571, Start Num: 45

Candidate Starts for Partridge_38:

(Start: 27 @29404 has 8 MA's), (Start: 45 @29332 has 28 MA's), (115, 29080), (121, 29032), (128, 28972), (135, 28951), (151, 28900), (179, 28840), (187, 28825), (208, 28738), (211, 28720),

Gene: Pawn_52 Start: 33101, Stop: 32403, Start Num: 44

Candidate Starts for Pawn_52:

(30, 33161), (Start: 44 @33101 has 296 MA's), (114, 32909), (126, 32804), (127, 32801), (142, 32750), (198, 32633), (204, 32585), (208, 32570),

Gene: PeaceMeal1_45 Start: 31691, Stop: 30963, Start Num: 44

Candidate Starts for PeaceMeal1_45:

(Start: 44 @31691 has 296 MA's), (Start: 46 @31685 has 208 MA's), (115, 31454), (121, 31406), (126, 31364), (127, 31361), (135, 31325), (143, 31298), (204, 31145), (208, 31130), (223, 31034),

Gene: Peaches_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Peaches_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Pembroke_52 Start: 33207, Stop: 32500, Start Num: 44

Candidate Starts for Pembroke_52:

(Start: 44 @33207 has 296 MA's), (114, 33015), (126, 32910), (133, 32877), (204, 32682), (208, 32667),

Gene: Penny1_53 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for Penny1_53:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: Perplexer_47 Start: 32754, Stop: 32035, Start Num: 46

Candidate Starts for Perplexer_47:

(Start: 46 @32754 has 208 MA's), (115, 32526), (121, 32478), (127, 32433), (139, 32382), (140, 32379), (141, 32376), (191, 32283), (198, 32265), (204, 32217), (208, 32202),

Gene: PeterPeter_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for PeterPeter_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Petersenfast_48 Start: 32189, Stop: 31476, Start Num: 44

Candidate Starts for Petersenfast_48:

(Start: 44 @32189 has 296 MA's), (73, 32138), (121, 31916), (126, 31874), (184, 31733), (198, 31703), (201, 31667), (204, 31655), (208, 31640), (210, 31634), (223, 31544),

Gene: PeteyPab_9 Start: 4717, Stop: 5490, Start Num: 54

Candidate Starts for PeteyPab_9:

(Start: 54 @4717 has 8 MA's), (59, 4729), (70, 4753), (77, 4771), (118, 4993), (128, 5077), (129, 5080), (162, 5161), (202, 5257), (207, 5275), (208, 5281), (211, 5299), (212, 5311), (228, 5389), (232, 5401),

Gene: PetiteSangsue_47 Start: 32757, Stop: 32038, Start Num: 46

Candidate Starts for PetiteSangsue_47:

(Start: 46 @32757 has 208 MA's), (115, 32529), (121, 32481), (127, 32436), (139, 32385), (140, 32382), (141, 32379), (191, 32286), (198, 32268), (204, 32220), (208, 32205),

Gene: PetterN_45 Start: 31663, Stop: 30968, Start Num: 46

Candidate Starts for PetterN_45:

(Start: 46 @31663 has 208 MA's), (73, 31609), (83, 31585), (86, 31582), (114, 31450), (121, 31387), (133, 31312), (156, 31258), (204, 31147), (208, 31132),

Gene: Ph8s_51 Start: 32414, Stop: 31710, Start Num: 44

Candidate Starts for Ph8s_51:

(Start: 44 @32414 has 296 MA's), (126, 32117), (127, 32114), (133, 32084), (137, 32072), (147, 32051), (162, 32018), (166, 32015), (170, 32006), (204, 31898), (208, 31883), (213, 31847), (223, 31787),

Gene: Phacado_48 Start: 32780, Stop: 32061, Start Num: 46

Candidate Starts for Phacado_48:

(Start: 46 @32780 has 208 MA's), (115, 32552), (121, 32504), (133, 32429), (139, 32408), (140, 32405), (191, 32309), (201, 32255), (204, 32243), (208, 32228), (210, 32222),

Gene: Phaded_50 Start: 34266, Stop: 33541, Start Num: 44

Candidate Starts for Phaded_50:

(Start: 44 @34266 has 296 MA's), (70, 34221), (115, 34032), (121, 33984), (126, 33942), (127, 33939), (147, 33876), (166, 33840), (167, 33837), (198, 33771), (201, 33735), (204, 33723), (208, 33708), (223, 33612),

Gene: Phaeder_49 Start: 33024, Stop: 32320, Start Num: 44

Candidate Starts for Phaeder_49:

(Start: 44 @33024 has 296 MA's), (70, 32979), (72, 32976), (73, 32973), (114, 32832), (115, 32817), (121, 32769), (126, 32727), (204, 32508), (208, 32493),

Gene: PhailMary_37 Start: 29564, Stop: 28731, Start Num: 27

Candidate Starts for PhailMary_37:

(Start: 27 @29564 has 8 MA's), (Start: 45 @29492 has 28 MA's), (121, 29192), (128, 29132), (135, 29111), (151, 29060), (179, 29000), (187, 28985), (208, 28898), (211, 28880), (220, 28814), (223, 28802),

Gene: Phantastic_50 Start: 32700, Stop: 31966, Start Num: 46

Candidate Starts for Phantastic_50:

(Start: 46 @32700 has 208 MA's), (114, 32472), (126, 32367), (127, 32364), (143, 32310), (164, 32265), (204, 32148), (208, 32133), (223, 32037),

Gene: Pharaoh_44 Start: 32794, Stop: 32087, Start Num: 44

Candidate Starts for Pharaoh_44:

(Start: 44 @32794 has 296 MA's), (114, 32599), (115, 32584), (142, 32440), (143, 32437), (204, 32275), (208, 32260), (210, 32254), (213, 32224),

Gene: Phelipe_49 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Phelipe_49:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Phighter1804_48 Start: 32847, Stop: 32128, Start Num: 46

Candidate Starts for Phighter1804_48:

(Start: 46 @32847 has 208 MA's), (70, 32802), (115, 32619), (139, 32475), (140, 32472), (191, 32376), (204, 32310), (208, 32295),

Gene: PhishRPhriends_50 Start: 32275, Stop: 31577, Start Num: 44

Candidate Starts for PhishRPhriends_50:

(30, 32335), (Start: 44 @32275 has 296 MA's), (114, 32083), (126, 31978), (127, 31975), (142, 31924), (198, 31807), (204, 31759), (208, 31744),

Gene: Phlei_38 Start: 32546, Stop: 31824, Start Num: 44

Candidate Starts for Phlei_38:

(Start: 44 @32546 has 296 MA's), (70, 32501), (98, 32447), (115, 32315), (121, 32267), (127, 32222), (170, 32114), (201, 32018), (204, 32006), (208, 31991), (209, 31988), (210, 31985), (213, 31955), (223, 31895),

Gene: Phlorence_40 Start: 31500, Stop: 30787, Start Num: 46

Candidate Starts for Phlorence_40:

(Start: 46 @31500 has 208 MA's), (70, 31452), (83, 31422), (114, 31284), (123, 31209), (126, 31179), (127, 31176), (145, 31110), (165, 31074), (194, 31023), (198, 31014), (204, 30966), (208, 30951), (213, 30915), (222, 30858),

Gene: Phoebe_53 Start: 33199, Stop: 32492, Start Num: 44

Candidate Starts for Phoebe_53:

(Start: 44 @33199 has 296 MA's), (114, 33007), (126, 32902), (133, 32869), (204, 32674), (208, 32659),

Gene: Phonnegut_49 Start: 33073, Stop: 32369, Start Num: 44

Candidate Starts for Phonnegut_49:

(Start: 44 @33073 has 296 MA's), (70, 33028), (72, 33025), (73, 33022), (114, 32881), (115, 32866), (121, 32818), (126, 32776), (204, 32557), (208, 32542),

Gene: Phontbonne_48 Start: 32672, Stop: 31953, Start Num: 46

Candidate Starts for Phontbonne_48:

(Start: 46 @32672 has 208 MA's), (115, 32444), (121, 32396), (133, 32321), (139, 32300), (140, 32297), (191, 32201), (201, 32147), (204, 32135), (208, 32120), (210, 32114),

Gene: Phoxy_52 Start: 33234, Stop: 32527, Start Num: 44

Candidate Starts for Phoxy_52:

(Start: 44 @33234 has 296 MA's), (114, 33042), (204, 32709), (208, 32694),

Gene: Phrankenstein_38 Start: 29116, Stop: 28355, Start Num: 45

Candidate Starts for Phrankenstein_38:

(Start: 27 @29188 has 8 MA's), (Start: 45 @29116 has 28 MA's), (Start: 49 @29101 has 4 MA's), (115, 28864), (121, 28816), (128, 28756), (135, 28735), (151, 28684), (179, 28624), (187, 28609), (208, 28522), (211, 28504), (220, 28438), (223, 28426),

Gene: Phranny_53 Start: 33083, Stop: 32385, Start Num: 44

Candidate Starts for Phranny_53:

(30, 33143), (Start: 44 @33083 has 296 MA's), (114, 32891), (126, 32786), (127, 32783), (142, 32732), (198, 32615), (204, 32567), (208, 32552),

Gene: PickleBack_41 Start: 31632, Stop: 30913, Start Num: 46

Candidate Starts for PickleBack_41:

(Start: 46 @31632 has 208 MA's), (73, 31578), (83, 31554), (99, 31530), (116, 31398), (140, 31254), (193, 31155), (204, 31092), (208, 31077), (213, 31041), (222, 30984),

Gene: Pioneer_49 Start: 33073, Stop: 32369, Start Num: 44

Candidate Starts for Pioneer_49:

(Start: 44 @33073 has 296 MA's), (70, 33028), (72, 33025), (73, 33022), (114, 32881), (115, 32866), (121, 32818), (126, 32776), (204, 32557), (208, 32542),

Gene: Pipcraft_46 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Pipcraft_46:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Piro94_49 Start: 33461, Stop: 32733, Start Num: 44

Candidate Starts for Piro94_49:

(Start: 44 @33461 has 296 MA's), (115, 33224), (121, 33176), (126, 33134), (127, 33131), (198, 32963), (204, 32915), (208, 32900), (210, 32894),

Gene: Pistachio_51 Start: 32623, Stop: 31895, Start Num: 46

Candidate Starts for Pistachio_51:

(28, 32692), (Start: 46 @32623 has 208 MA's), (109, 32443), (114, 32401), (126, 32296), (127, 32293), (164, 32194), (187, 32149), (204, 32077), (208, 32062),

Gene: Pmask_51 Start: 32094, Stop: 31360, Start Num: 44

Candidate Starts for Pmask_51:

(Start: 44 @32094 has 296 MA's), (70, 32049), (87, 32013), (115, 31857), (126, 31767), (127, 31764), (139, 31713), (186, 31623), (187, 31620), (198, 31596), (204, 31548), (208, 31533), (210, 31527), (224, 31434),

Gene: Pocahontas_48 Start: 33011, Stop: 32283, Start Num: 46

Candidate Starts for Pocahontas_48:

(Start: 32 @33065 has 7 MA's), (Start: 46 @33011 has 208 MA's), (Start: 63 @32975 has 4 MA's), (114, 32789), (126, 32684), (164, 32582), (204, 32465), (208, 32450), (223, 32354),

Gene: Polymorphads_49 Start: 32774, Stop: 32055, Start Num: 46

Candidate Starts for Polymorphads_49:

(Start: 46 @32774 has 208 MA's), (115, 32546), (121, 32498), (133, 32423), (139, 32402), (140, 32399), (191, 32303), (201, 32249), (204, 32237), (208, 32222), (210, 32216),

Gene: Polyzuki_18 Start: 8915, Stop: 9802, Start Num: 37

Candidate Starts for Polyzuki_18:

(Start: 18 @8819 has 1 MA's), (22, 8849), (31, 8888), (Start: 37 @8915 has 5 MA's), (Start: 61 @8954 has 4 MA's), (72, 8981), (84, 9011), (115, 9185), (139, 9335), (150, 9365), (169, 9440), (208, 9599), (219, 9674), (220, 9683),

Gene: Pomar16_51 Start: 32863, Stop: 32156, Start Num: 44

Candidate Starts for Pomar16_51:

(Start: 44 @32863 has 296 MA's), (114, 32668), (115, 32653), (126, 32563), (127, 32560), (137, 32518), (204, 32344), (208, 32329), (223, 32233),

Gene: Poompha_46 Start: 31689, Stop: 30961, Start Num: 44

Candidate Starts for Poompha_46:

(Start: 44 @31689 has 296 MA's), (Start: 46 @31683 has 208 MA's), (115, 31452), (121, 31404), (126, 31362), (127, 31359), (135, 31323), (143, 31296), (204, 31143), (208, 31128), (223, 31032),

Gene: Popcicle_48 Start: 33011, Stop: 32283, Start Num: 46

Candidate Starts for Popcicle_48:

(Start: 32 @33065 has 7 MA's), (Start: 46 @33011 has 208 MA's), (Start: 63 @32975 has 4 MA's), (114, 32789), (126, 32684), (164, 32582), (204, 32465), (208, 32450), (223, 32354),

Gene: PotatoChip_9 Start: 4719, Stop: 5492, Start Num: 54

Candidate Starts for PotatoChip_9:

(Start: 54 @4719 has 8 MA's), (59, 4731), (70, 4755), (77, 4773), (118, 4995), (128, 5079), (129, 5082), (162, 5163), (202, 5259), (207, 5277), (208, 5283), (211, 5301), (212, 5313), (228, 5391), (232, 5403),

Gene: PotatoSplit_54 Start: 33210, Stop: 32503, Start Num: 44

Candidate Starts for PotatoSplit_54:

(Start: 44 @33210 has 296 MA's), (114, 33018), (126, 32913), (133, 32880), (204, 32685), (208, 32670),

Gene: Power_48 Start: 33083, Stop: 32358, Start Num: 44

Candidate Starts for Power_48:

(Start: 44 @33083 has 296 MA's), (115, 32849), (126, 32759), (127, 32756), (142, 32705), (148, 32690), (187, 32612), (198, 32588), (204, 32540), (208, 32525), (210, 32519), (223, 32429),

Gene: Priamo_53 Start: 31850, Stop: 31140, Start Num: 44

Candidate Starts for Priamo_53:

(Start: 44 @31850 has 296 MA's), (70, 31805), (115, 31613), (144, 31466), (187, 31400), (204, 31328), (208, 31313), (210, 31307), (224, 31214),

Gene: Priya_49 Start: 33091, Stop: 32387, Start Num: 44

Candidate Starts for Priya_49:

(Start: 44 @33091 has 296 MA's), (70, 33046), (72, 33043), (73, 33040), (114, 32899), (115, 32884), (121, 32836), (126, 32794), (204, 32575), (208, 32560),

Gene: Pukovnik_48 Start: 33871, Stop: 33143, Start Num: 44

Candidate Starts for Pukovnik_48:

(Start: 44 @33871 has 296 MA's), (115, 33634), (121, 33586), (126, 33544), (127, 33541), (187, 33397), (204, 33325), (208, 33310), (210, 33304),

Gene: Pumbaa_48 Start: 32726, Stop: 32007, Start Num: 46

Candidate Starts for Pumbaa_48:

(Start: 46 @32726 has 208 MA's), (115, 32498), (121, 32450), (133, 32375), (139, 32354), (140, 32351), (191, 32255), (201, 32201), (204, 32189), (208, 32174), (210, 32168),

Gene: Pupper_63 Start: 21949, Stop: 22686, Start Num: 51

Candidate Starts for Pupper_63:

(Start: 51 @21949 has 5 MA's), (87, 22021), (107, 22090), (139, 22318), (161, 22345), (180, 22384), (210, 22498), (222, 22585), (239, 22672),

Gene: Puppy_51 Start: 32696, Stop: 31968, Start Num: 46

Candidate Starts for Puppy_51:

(19, 32822), (Start: 46 @32696 has 208 MA's), (109, 32516), (114, 32474), (126, 32369), (127, 32366), (164, 32267), (187, 32222), (204, 32150), (208, 32135),

Gene: PurpleHaze_52 Start: 33096, Stop: 32398, Start Num: 44

Candidate Starts for PurpleHaze_52:

(30, 33156), (Start: 44 @33096 has 296 MA's), (114, 32904), (126, 32799), (127, 32796), (142, 32745), (198, 32628), (204, 32580), (208, 32565),

Gene: Qobbit_49 Start: 33053, Stop: 32349, Start Num: 44

Candidate Starts for Qobbit_49:

(Start: 44 @33053 has 296 MA's), (70, 33008), (72, 33005), (73, 33002), (114, 32861), (115, 32846), (121, 32798), (126, 32756), (204, 32537), (208, 32522),

Gene: QueenB2_48 Start: 33043, Stop: 32318, Start Num: 44

Candidate Starts for QueenB2_48:

(Start: 44 @33043 has 296 MA's), (115, 32809), (126, 32719), (127, 32716), (142, 32665), (148, 32650), (187, 32572), (204, 32500), (208, 32485),

Gene: QueenBeesly_49 Start: 33030, Stop: 32305, Start Num: 44

Candidate Starts for QueenBeesly_49:

(Start: 44 @33030 has 296 MA's), (115, 32796), (126, 32706), (127, 32703), (142, 32652), (162, 32607), (167, 32601), (198, 32535), (204, 32487), (208, 32472), (210, 32466), (223, 32376),

Gene: QuinnKiro_47 Start: 33068, Stop: 32286, Start Num: 32

Candidate Starts for QuinnKiro_47:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: RER2_31 Start: 26042, Stop: 25281, Start Num: 45

Candidate Starts for RER2_31:

(Start: 27 @26114 has 8 MA's), (Start: 45 @26042 has 28 MA's), (121, 25742), (128, 25682), (135, 25661), (151, 25610), (179, 25550), (187, 25535), (208, 25448), (211, 25430), (220, 25364), (223, 25352),

Gene: RGL3_33 Start: 26970, Stop: 26239, Start Num: 45

Candidate Starts for RGL3_33:

(30, 27033), (Start: 45 @26970 has 28 MA's), (47, 26958), (95, 26871), (115, 26727), (128, 26619), (137, 26595), (173, 26520), (186, 26496), (208, 26406), (211, 26388), (213, 26370),

Gene: Rachaly_48 Start: 33353, Stop: 32622, Start Num: 44

Candidate Starts for Rachaly_48:

(Start: 44 @33353 has 296 MA's), (114, 33134), (121, 33071), (126, 33029), (127, 33026), (204, 32810), (208, 32795), (210, 32789), (223, 32699),

Gene: Rahalelujah_49 Start: 32557, Stop: 31856, Start Num: 44

Candidate Starts for Rahalelujah_49:

(Start: 44 @32557 has 296 MA's), (115, 32347), (121, 32299), (126, 32257), (131, 32230), (143, 32200), (147, 32191), (156, 32170), (186, 32113), (204, 32038), (208, 32023),

Gene: Rasputin_38 Start: 29140, Stop: 28379, Start Num: 45

Candidate Starts for Rasputin_38:

(Start: 27 @29212 has 8 MA's), (Start: 45 @29140 has 28 MA's), (115, 28888), (121, 28840), (128, 28780), (135, 28759), (151, 28708), (179, 28648), (187, 28633), (208, 28546), (211, 28528), (220, 28462), (223, 28450),

Gene: ReMo_51 Start: 31560, Stop: 30862, Start Num: 43

Candidate Starts for ReMo_51:

(Start: 43 @31560 has 20 MA's), (76, 31503), (115, 31344), (126, 31254), (127, 31251), (153, 31173), (204, 31044), (208, 31029),

Gene: Reba_52 Start: 32756, Stop: 32058, Start Num: 44

Candidate Starts for Reba_52:

(30, 32816), (Start: 44 @32756 has 296 MA's), (114, 32564), (126, 32459), (127, 32456), (142, 32405), (198, 32288), (204, 32240), (208, 32225),

Gene: Rebeuca_47 Start: 32788, Stop: 32051, Start Num: 44

Candidate Starts for Rebeuca_47:

(Start: 44 @32788 has 296 MA's), (Start: 46 @32782 has 208 MA's), (115, 32542), (121, 32494), (126, 32452), (127, 32449), (146, 32380), (166, 32347), (191, 32299), (204, 32233), (208, 32218), (210, 32212), (213, 32182), (223, 32122),

Gene: RedRock_51 Start: 34246, Stop: 33512, Start Num: 44

Candidate Starts for RedRock_51:

(Start: 44 @34246 has 296 MA's), (70, 34201), (115, 34009), (121, 33961), (126, 33919), (127, 33916), (142, 33865), (167, 33814), (204, 33700), (208, 33685), (210, 33679), (213, 33649), (224, 33586),

Gene: RedWattleHog_184 Start: 115100, Stop: 115843, Start Num: 49

Candidate Starts for RedWattleHog_184:

(Start: 49 @115100 has 4 MA's), (Start: 61 @115115 has 4 MA's), (69, 115136), (70, 115139), (72, 115142), (97, 115193), (103, 115214), (115, 115328), (138, 115463), (167, 115505), (185, 115538), (201, 115613), (209, 115643), (210, 115646), (212, 115670), (214, 115679), (220, 115724), (222, 115733), (233, 115769),

Gene: Refuge_48 Start: 34235, Stop: 33531, Start Num: 44

Candidate Starts for Refuge_48:

(Start: 44 @34235 has 296 MA's), (114, 34043), (115, 34028), (127, 33935), (201, 33731), (204, 33719), (208, 33704), (210, 33698), (213, 33668),

Gene: Relief_47 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Relief_47:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Remus_52 Start: 31485, Stop: 30787, Start Num: 43

Candidate Starts for Remus_52:

(Start: 43 @31485 has 20 MA's), (76, 31428), (115, 31269), (126, 31179), (127, 31176), (153, 31098), (204, 30969), (208, 30954),

Gene: ResDef_49 Start: 33014, Stop: 32286, Start Num: 46

Candidate Starts for ResDef_49:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Retro23_50 Start: 33437, Stop: 32712, Start Num: 44

Candidate Starts for Retro23_50:

(Start: 44 @33437 has 296 MA's), (115, 33203), (126, 33113), (127, 33110), (142, 33059), (198, 32942), (204, 32894), (208, 32879), (210, 32873), (213, 32843),

Gene: RexFury_38 Start: 29201, Stop: 28440, Start Num: 45

Candidate Starts for RexFury_38:

(Start: 27 @29273 has 8 MA's), (Start: 45 @29201 has 28 MA's), (115, 28949), (121, 28901), (128, 28841), (135, 28820), (151, 28769), (179, 28709), (187, 28694), (208, 28607), (211, 28589), (220, 28523), (223, 28511),

Gene: Rhodalysa_38 Start: 29242, Stop: 28409, Start Num: 27

Candidate Starts for Rhodalysa_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (143, 28762), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: RhynO_48 Start: 32587, Stop: 31850, Start Num: 44

Candidate Starts for RhynO_48:

(Start: 44 @32587 has 296 MA's), (Start: 46 @32581 has 208 MA's), (88, 32494), (115, 32341), (121, 32293), (126, 32251), (127, 32248), (140, 32194), (146, 32179), (166, 32146), (191, 32098), (204, 32032), (208, 32017), (223, 31921),

Gene: Rifter_52 Start: 31639, Stop: 30911, Start Num: 44

Candidate Starts for Rifter_52:

(Start: 44 @31639 has 296 MA's), (70, 31594), (115, 31402), (121, 31354), (126, 31312), (127, 31309), (145, 31243), (171, 31207), (196, 31156), (198, 31147), (204, 31099), (208, 31084), (224, 30985),

Gene: Rockstar_49 Start: 32505, Stop: 31771, Start Num: 46

Candidate Starts for Rockstar_49:

(Start: 46 @32505 has 208 MA's), (114, 32277), (126, 32172), (127, 32169), (143, 32115), (164, 32070), (187, 32025), (204, 31953), (208, 31938), (223, 31842),

Gene: Roksolana_52 Start: 32130, Stop: 31396, Start Num: 44

Candidate Starts for Roksolana_52:

(Start: 44 @32130 has 296 MA's), (70, 32085), (115, 31893), (126, 31803), (127, 31800), (139, 31749), (186, 31659), (187, 31656), (198, 31632), (204, 31584), (208, 31569), (210, 31563), (224, 31470),

Gene: Romney_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Romney_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Roosevelt_47 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Roosevelt_47:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Rosalind_51 Start: 31718, Stop: 30993, Start Num: 43

Candidate Starts for Rosalind_51:

(Start: 43 @31718 has 20 MA's), (83, 31640), (89, 31628), (115, 31478), (126, 31388), (127, 31385), (132, 31358), (156, 31301), (204, 31175), (208, 31160),

Gene: Rowa_46 Start: 33718, Stop: 34437, Start Num: 41

Candidate Starts for Rowa_46:

(33, 33679), (Start: 41 @33718 has 1 MA's), (Start: 46 @33733 has 208 MA's), (94, 33829), (115, 33961), (116, 33964), (119, 33991), (125, 34042), (126, 34054), (127, 34057), (128, 34072), (193, 34195), (201, 34246), (208, 34273), (209, 34276), (210, 34279), (213, 34309), (223, 34369), (225, 34375), (236, 34423),

Gene: Ruin_48 Start: 32774, Stop: 32055, Start Num: 46

Candidate Starts for Ruin_48:

(Start: 46 @32774 has 208 MA's), (115, 32546), (121, 32498), (133, 32423), (139, 32402), (140, 32399), (191, 32303), (201, 32249), (204, 32237), (208, 32222), (210, 32216),

Gene: Rummer_51 Start: 33237, Stop: 32530, Start Num: 44

Candidate Starts for Rummer_51:

(Start: 44 @33237 has 296 MA's), (114, 33045), (204, 32712), (208, 32697),

Gene: SCentae_62 Start: 21703, Stop: 22440, Start Num: 51

Candidate Starts for SCentae_62:

(Start: 51 @21703 has 5 MA's), (87, 21775), (107, 21844), (139, 22072), (161, 22099), (180, 22138), (210, 22252), (222, 22339), (239, 22426),

Gene: Sabertooth_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Sabertooth_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Sabia_52 Start: 33200, Stop: 32493, Start Num: 44

Candidate Starts for Sabia_52:

(Start: 44 @33200 has 296 MA's), (114, 33008), (126, 32903), (133, 32870), (204, 32675), (208, 32660),

Gene: Sabinator_51 Start: 33205, Stop: 32498, Start Num: 44

Candidate Starts for Sabinator_51:

(Start: 44 @33205 has 296 MA's), (114, 33013), (126, 32908), (133, 32875), (204, 32680), (208, 32665),

Gene: Salz_48 Start: 32160, Stop: 31447, Start Num: 44

Candidate Starts for Salz_48:

(Start: 44 @32160 has 296 MA's), (73, 32109), (121, 31887), (126, 31845), (184, 31704), (198, 31674), (201, 31638), (204, 31626), (208, 31611), (210, 31605), (223, 31515),

Gene: Samora_42 Start: 32452, Stop: 33144, Start Num: 46

Candidate Starts for Samora_42:

(Start: 46 @32452 has 208 MA's), (56, 32479), (115, 32668), (117, 32686), (127, 32764), (208, 32977), (210, 32983), (223, 33073),

Gene: Satis_6 Start: 3776, Stop: 2988, Start Num: 52

Candidate Starts for Satis_6:

(34, 3845), (Start: 52 @3776 has 5 MA's), (56, 3767), (62, 3755), (115, 3509), (120, 3470), (128, 3395), (171, 3305), (181, 3284), (200, 3215), (206, 3191), (208, 3179), (220, 3095), (227, 3071), (240, 2993),

Gene: SaturnRing_50 Start: 33076, Stop: 32348, Start Num: 46

Candidate Starts for SaturnRing_50:

(Start: 46 @33076 has 208 MA's), (109, 32896), (114, 32854), (126, 32749), (127, 32746), (164, 32647), (187, 32602), (204, 32530), (208, 32515),

Gene: Scamp_48 Start: 32783, Stop: 32064, Start Num: 46

Candidate Starts for Scamp_48:

(Start: 46 @32783 has 208 MA's), (115, 32555), (121, 32507), (133, 32432), (139, 32411), (140, 32408), (191, 32312), (201, 32258), (204, 32246), (208, 32231), (210, 32225),

Gene: Scherzo_49 Start: 33262, Stop: 32558, Start Num: 44

Candidate Starts for Scherzo_49:

(Start: 44 @33262 has 296 MA's), (70, 33217), (72, 33214), (73, 33211), (114, 33070), (115, 33055), (121, 33007), (126, 32965), (204, 32746), (208, 32731),

Gene: Scorpia_45 Start: 31749, Stop: 31045, Start Num: 46

Candidate Starts for Scorpia_45:

(Start: 46 @31749 has 208 MA's), (113, 31554), (114, 31548), (121, 31485), (126, 31443), (127, 31440), (134, 31407), (162, 31341), (198, 31272), (204, 31224), (208, 31209),

Gene: Scout_49 Start: 32204, Stop: 31476, Start Num: 46

Candidate Starts for Scout_49:

(Start: 46 @32204 has 208 MA's), (Start: 63 @32168 has 4 MA's), (109, 32024), (114, 31982), (126, 31877), (127, 31874), (164, 31775), (204, 31658), (208, 31643), (210, 31637),

Gene: Sebastisaurus_42 Start: 32978, Stop: 33688, Start Num: 46

Candidate Starts for Sebastisaurus_42:

(Start: 46 @32978 has 208 MA's), (64, 33020), (66, 33023), (79, 33047), (88, 33062), (112, 33161), (119, 33224), (120, 33233), (127, 33290), (128, 33305), (136, 33329), (158, 33380), (162, 33386), (174, 33416), (208, 33524), (209, 33527), (210, 33530), (213, 33560), (231, 33641), (234, 33665),

Gene: SemperFi_50 Start: 33298, Stop: 32573, Start Num: 44

Candidate Starts for SemperFi_50:

(Start: 44 @33298 has 296 MA's), (115, 33064), (126, 32974), (127, 32971), (142, 32920), (162, 32875), (167, 32869), (198, 32803), (204, 32755), (208, 32740), (210, 32734), (223, 32644),

Gene: Sephiroth_106 Start: 60622, Stop: 61335, Start Num: 61

Candidate Starts for Sephiroth_106:

(Start: 61 @60622 has 4 MA's), (88, 60685), (104, 60730), (106, 60733), (115, 60841), (120, 60880), (124, 60907), (125, 60922), (137, 60982), (156, 61024), (186, 61063), (201, 61120), (212, 61177), (214, 61186), (219, 61222), (230, 61261), (233, 61276), (237, 61294),

Gene: Serenity_49 Start: 32189, Stop: 31464, Start Num: 44

Candidate Starts for Serenity_49:

(Start: 44 @32189 has 296 MA's), (115, 31958), (121, 31910), (123, 31898), (128, 31850), (193, 31709), (204, 31646), (208, 31631),

Gene: Severus_45 Start: 31683, Stop: 30961, Start Num: 46

Candidate Starts for Severus_45:

(Start: 44 @31689 has 296 MA's), (Start: 46 @31683 has 208 MA's), (115, 31452), (121, 31404), (126, 31362), (127, 31359), (135, 31323), (143, 31296), (204, 31143), (208, 31128), (223, 31032),

Gene: Shaka_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Shaka_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Sham4_49 Start: 32188, Stop: 31475, Start Num: 44

Candidate Starts for Sham4_49:

(Start: 44 @32188 has 296 MA's), (73, 32137), (121, 31915), (126, 31873), (184, 31732), (198, 31702), (201, 31666), (204, 31654), (208, 31639), (210, 31633), (223, 31543),

Gene: Shawty_40 Start: 31544, Stop: 32257, Start Num: 46

Candidate Starts for Shawty_40:

(Start: 46 @31544 has 208 MA's), (115, 31772), (117, 31790), (120, 31811), (127, 31868), (128, 31883), (137, 31910), (147, 31931), (150, 31940), (174, 31976), (208, 32084), (209, 32087), (210, 32090), (213, 32120), (227, 32192), (231, 32201),

Gene: ShayRa_53 Start: 31764, Stop: 31066, Start Num: 43

Candidate Starts for ShayRa_53:

(Start: 43 @31764 has 20 MA's), (76, 31707), (115, 31548), (126, 31458), (127, 31455), (153, 31377), (204, 31248), (208, 31233),

Gene: SheaKeira_48 Start: 32614, Stop: 31907, Start Num: 44

Candidate Starts for SheaKeira_48:

(Start: 44 @32614 has 296 MA's), (114, 32419), (115, 32404), (121, 32356), (131, 32287), (191, 32161), (204, 32095), (208, 32080), (223, 31984),

Gene: Sheen_49 Start: 35012, Stop: 34317, Start Num: 46

Candidate Starts for Sheen_49:

(19, 35141), (Start: 46 @35012 has 208 MA's), (64, 34970), (72, 34964), (115, 34808), (149, 34637), (162, 34616), (174, 34589), (204, 34499), (208, 34484), (230, 34370),

Gene: SheldonCooper_50 Start: 33204, Stop: 32485, Start Num: 46

Candidate Starts for SheldonCooper_50:

(Start: 46 @33204 has 208 MA's), (70, 33159), (115, 32976), (121, 32928), (139, 32832), (140, 32829), (201, 32679), (204, 32667), (208, 32652), (210, 32646),

Gene: Shuman_38 Start: 29255, Stop: 28422, Start Num: 27

Candidate Starts for Shuman_38:

(Start: 27 @29255 has 8 MA's), (Start: 45 @29183 has 28 MA's), (115, 28931), (121, 28883), (128, 28823), (135, 28802), (151, 28751), (179, 28691), (187, 28676), (208, 28589), (211, 28571), (220, 28505), (223, 28493),

Gene: Shygu2_47 Start: 32757, Stop: 32038, Start Num: 46

Candidate Starts for Shygu2_47:

(Start: 46 @32757 has 208 MA's), (115, 32529), (127, 32436), (139, 32385), (140, 32382), (191, 32286), (193, 32283), (204, 32220), (208, 32205),

Gene: Skipitt_47 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for Skipitt_47:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: Smeagan_52 Start: 33750, Stop: 33025, Start Num: 44

Candidate Starts for Smeagan_52:

(Start: 44 @33750 has 296 MA's), (115, 33516), (126, 33426), (127, 33423), (167, 33321), (198, 33255), (204, 33207), (208, 33192), (210, 33186),

Gene: SmellyB_51 Start: 32085, Stop: 31348, Start Num: 44

Candidate Starts for SmellyB_51:

(Start: 44 @32085 has 296 MA's), (70, 32040), (115, 31848), (128, 31740), (140, 31698), (186, 31611), (204, 31536), (208, 31521), (210, 31515), (224, 31422),

Gene: SnapTap_49 Start: 33109, Stop: 32384, Start Num: 44

Candidate Starts for SnapTap_49:

(Start: 44 @33109 has 296 MA's), (115, 32875), (126, 32785), (127, 32782), (142, 32731), (148, 32716), (187, 32638), (198, 32614), (204, 32566), (208, 32551), (210, 32545), (223, 32455),

Gene: Snape_49 Start: 32186, Stop: 31473, Start Num: 44

Candidate Starts for Snape_49:

(Start: 44 @32186 has 296 MA's), (73, 32135), (121, 31913), (126, 31871), (184, 31730), (198, 31700), (201, 31664), (204, 31652), (208, 31637), (210, 31631), (223, 31541),

Gene: Snickers_52 Start: 33180, Stop: 32473, Start Num: 44

Candidate Starts for Snickers_52:

(Start: 44 @33180 has 296 MA's), (114, 32988), (126, 32883), (133, 32850), (204, 32655), (208, 32640),

Gene: SoYo_52 Start: 33118, Stop: 32411, Start Num: 44

Candidate Starts for SoYo_52:

(Start: 44 @33118 has 296 MA's), (114, 32926), (126, 32821), (133, 32788), (204, 32593), (208, 32578),

Gene: SoilDragon_52 Start: 32654, Stop: 31947, Start Num: 44

Candidate Starts for SoilDragon_52:

(Start: 44 @32654 has 296 MA's), (114, 32462), (126, 32357), (204, 32129), (208, 32114),

Gene: Soshari_54 Start: 33233, Stop: 32526, Start Num: 44

Candidate Starts for Soshari_54:

(Start: 44 @33233 has 296 MA's), (114, 33041), (204, 32708), (208, 32693),

Gene: Soups_52 Start: 31793, Stop: 31065, Start Num: 43

Candidate Starts for Soups_52:

(Start: 43 @31793 has 20 MA's), (91, 31703), (115, 31547), (126, 31457), (127, 31454), (153, 31376), (204, 31247), (208, 31232),

Gene: Sparxx_49 Start: 32776, Stop: 32057, Start Num: 46

Candidate Starts for Sparxx_49:

(Start: 46 @32776 has 208 MA's), (115, 32548), (121, 32500), (133, 32425), (139, 32404), (140, 32401), (191, 32305), (201, 32251), (204, 32239), (208, 32224), (210, 32218),

Gene: Spike509_52 Start: 33234, Stop: 32527, Start Num: 44

Candidate Starts for Spike509_52:

(Start: 44 @33234 has 296 MA's), (114, 33042), (204, 32709), (208, 32694),

Gene: Spino_47 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for Spino_47:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Spouty_47 Start: 33090, Stop: 32386, Start Num: 44

Candidate Starts for Spouty_47:

(Start: 44 @33090 has 296 MA's), (70, 33045), (72, 33042), (73, 33039), (114, 32898), (115, 32883), (121, 32835), (126, 32793), (204, 32574), (208, 32559),

Gene: StCroix_38 Start: 29183, Stop: 28422, Start Num: 45

Candidate Starts for StCroix_38:

(Start: 27 @29255 has 8 MA's), (Start: 45 @29183 has 28 MA's), (115, 28931), (121, 28883), (128, 28823), (135, 28802), (143, 28775), (151, 28751), (179, 28691), (187, 28676), (208, 28589), (211, 28571), (220, 28505), (223, 28493),

Gene: Stagni_52 Start: 33209, Stop: 32502, Start Num: 44

Candidate Starts for Stagni_52:

(Start: 44 @33209 has 296 MA's), (114, 33017), (126, 32912), (133, 32879), (204, 32684), (208, 32669),

Gene: StarStuff_51 Start: 32825, Stop: 32118, Start Num: 44

Candidate Starts for StarStuff_51:

(Start: 44 @32825 has 296 MA's), (114, 32630), (115, 32615), (126, 32525), (127, 32522), (137, 32480), (204, 32306), (208, 32291), (223, 32195),

Gene: Stasia_47 Start: 32652, Stop: 31936, Start Num: 46

Candidate Starts for Stasia_47:

(Start: 46 @32652 has 208 MA's), (70, 32607), (115, 32424), (121, 32376), (126, 32334), (127, 32331), (162, 32235), (165, 32232), (202, 32124), (204, 32115), (208, 32100),

Gene: Steamy_45 Start: 32519, Stop: 31815, Start Num: 44

Candidate Starts for Steamy_45:

(Start: 44 @32519 has 296 MA's), (114, 32327), (115, 32312), (133, 32189), (170, 32111), (201, 32015), (204, 32003), (208, 31988),

Gene: StepMih_52 Start: 33200, Stop: 32493, Start Num: 44

Candidate Starts for StepMih_52:

(Start: 44 @33200 has 296 MA's), (114, 33008), (126, 32903), (133, 32870), (204, 32675), (208, 32660),

Gene: Stickynote_9 Start: 4738, Stop: 5511, Start Num: 54

Candidate Starts for Stickynote_9:

(Start: 54 @4738 has 8 MA's), (59, 4750), (70, 4774), (77, 4792), (118, 5014), (129, 5101), (183, 5212), (208, 5302), (211, 5320), (212, 5332), (228, 5410), (232, 5422),

Gene: Stormageddon_185 Start: 116065, Stop: 116808, Start Num: 49

Candidate Starts for Stormageddon_185:

(Start: 49 @116065 has 4 MA's), (Start: 61 @116080 has 4 MA's), (69, 116101), (70, 116104), (72, 116107), (97, 116158), (103, 116179), (115, 116293), (138, 116428), (167, 116470), (185, 116503), (201, 116578), (209, 116608), (210, 116611), (212, 116635), (214, 116644), (220, 116689), (222,

116698), (233, 116734),

Gene: Strosahl_52 Start: 31485, Stop: 30787, Start Num: 43

Candidate Starts for Strosahl_52:

(Start: 43 @31485 has 20 MA's), (76, 31428), (115, 31269), (126, 31179), (127, 31176), (153, 31098), (204, 30969), (208, 30954),

Gene: SuperAwesome_51 Start: 32093, Stop: 31359, Start Num: 44

Candidate Starts for SuperAwesome_51:

(Start: 44 @32093 has 296 MA's), (70, 32048), (87, 32012), (115, 31856), (126, 31766), (127, 31763), (139, 31712), (186, 31622), (187, 31619), (198, 31595), (204, 31547), (208, 31532), (210, 31526), (224, 31433),

Gene: SuperCallie99_50 Start: 31966, Stop: 31232, Start Num: 44

Candidate Starts for SuperCallie99_50:

(Start: 44 @31966 has 296 MA's), (70, 31921), (115, 31729), (121, 31681), (126, 31639), (127, 31636), (139, 31585), (186, 31495), (187, 31492), (198, 31468), (204, 31420), (208, 31405), (210, 31399), (224, 31306),

Gene: Superchunk_48 Start: 31632, Stop: 30928, Start Num: 44

Candidate Starts for Superchunk_48:

(Start: 44 @31632 has 296 MA's), (105, 31536), (126, 31335), (127, 31332), (137, 31290), (147, 31269), (170, 31224), (204, 31116), (208, 31101), (209, 31098), (210, 31095), (223, 31005),

Gene: Swann_38 Start: 29170, Stop: 28409, Start Num: 45

Candidate Starts for Swann_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: SweetiePie_49 Start: 33238, Stop: 32513, Start Num: 44

Candidate Starts for SweetiePie_49:

(Start: 44 @33238 has 296 MA's), (115, 33004), (122, 32953), (126, 32914), (127, 32911), (142, 32860), (162, 32815), (167, 32809), (198, 32743), (204, 32695), (208, 32680), (210, 32674), (223, 32584),

Gene: SwirlSquare_54 Start: 32323, Stop: 31595, Start Num: 44

Candidate Starts for SwirlSquare_54:

(Start: 44 @32323 has 296 MA's), (115, 32092), (121, 32044), (126, 32002), (127, 31999), (137, 31957), (167, 31897), (170, 31891), (201, 31795), (204, 31783), (208, 31768), (213, 31732), (223, 31672),

Gene: Swirley_44 Start: 32293, Stop: 31580, Start Num: 46

Candidate Starts for Swirley_44:

(Start: 46 @32293 has 208 MA's), (70, 32245), (83, 32215), (123, 32002), (126, 31972), (127, 31969), (145, 31903), (165, 31867), (194, 31816), (198, 31807), (204, 31759), (208, 31744), (213, 31708), (223, 31648),

Gene: Switzerland_52 Start: 31898, Stop: 31173, Start Num: 43

Candidate Starts for Switzerland_52:

(Start: 43 @31898 has 20 MA's), (83, 31820), (89, 31808), (115, 31658), (126, 31568), (127, 31565), (132, 31538), (156, 31481), (204, 31355), (208, 31340),

Gene: SydNat_43 Start: 32489, Stop: 31770, Start Num: 46

Candidate Starts for SydNat_43:

(Start: 46 @32489 has 208 MA's), (70, 32441), (114, 32273), (127, 32165), (201, 31961), (204, 31949), (208, 31934), (213, 31898), (222, 31841),

Gene: Syleon_110 Start: 61211, Stop: 61927, Start Num: 61

Candidate Starts for Syleon_110:

(Start: 61 @61211 has 4 MA's), (68, 61229), (88, 61274), (104, 61319), (106, 61322), (115, 61430), (120, 61469), (125, 61511), (137, 61571), (186, 61652), (201, 61709), (210, 61742), (212, 61766), (214, 61775), (219, 61811), (230, 61850), (233, 61865), (237, 61883),

Gene: TG1_37 Start: 30675, Stop: 31379, Start Num: 46

Candidate Starts for TG1_37:

(23, 30573), (36, 30639), (Start: 41 @30660 has 1 MA's), (Start: 46 @30675 has 208 MA's), (94, 30774), (116, 30906), (117, 30921), (127, 30999), (208, 31215), (210, 31221), (217, 31272), (222, 31308), (234, 31356),

Gene: TNguyen7_50 Start: 33043, Stop: 32315, Start Num: 46

Candidate Starts for TNguyen7_50:

(19, 33169), (Start: 46 @33043 has 208 MA's), (109, 32863), (114, 32821), (126, 32716), (127, 32713), (164, 32614), (187, 32569), (204, 32497), (208, 32482),

Gene: TWAMP_38 Start: 29242, Stop: 28409, Start Num: 27

Candidate Starts for TWAMP_38:

(Start: 27 @29242 has 8 MA's), (Start: 45 @29170 has 28 MA's), (115, 28918), (121, 28870), (128, 28810), (135, 28789), (143, 28762), (151, 28738), (179, 28678), (187, 28663), (208, 28576), (211, 28558), (220, 28492), (223, 28480),

Gene: Takoda_38 Start: 29143, Stop: 28382, Start Num: 45

Candidate Starts for Takoda_38:

(Start: 27 @29215 has 8 MA's), (Start: 45 @29143 has 28 MA's), (115, 28891), (121, 28843), (128, 28783), (135, 28762), (143, 28735), (151, 28711), (179, 28651), (187, 28636), (208, 28549), (211, 28531), (223, 28453),

Gene: Taquarus_48 Start: 32784, Stop: 32065, Start Num: 46

Candidate Starts for Taquarus_48:

(Start: 46 @32784 has 208 MA's), (115, 32556), (121, 32508), (133, 32433), (139, 32412), (140, 32409), (191, 32313), (201, 32259), (204, 32247), (208, 32232), (210, 32226),

Gene: TarsusIV_48 Start: 33069, Stop: 32335, Start Num: 44

Candidate Starts for TarsusIV_48:

(Start: 44 @33069 has 296 MA's), (115, 32826), (121, 32778), (126, 32736), (127, 32733), (198, 32565), (204, 32517), (208, 32502), (210, 32496), (223, 32406),

Gene: Tarynearal_40 Start: 31735, Stop: 31022, Start Num: 46

Candidate Starts for Tarynearal_40:

(Start: 46 @31735 has 208 MA's), (70, 31687), (83, 31657), (123, 31444), (127, 31411), (145, 31345), (165, 31309), (194, 31258), (198, 31249), (204, 31201), (208, 31186), (213, 31150), (223, 31090),

Gene: Taurus_53 Start: 33206, Stop: 32499, Start Num: 44

Candidate Starts for Taurus_53:

(Start: 44 @33206 has 296 MA's), (114, 33014), (126, 32909), (133, 32876), (204, 32681), (208, 32666),

Gene: Texage_47 Start: 33069, Stop: 32287, Start Num: 32

Candidate Starts for Texage_47:

(Start: 32 @33069 has 7 MA's), (Start: 46 @33015 has 208 MA's), (Start: 63 @32979 has 4 MA's), (114, 32793), (126, 32688), (164, 32586), (204, 32469), (208, 32454), (223, 32358),

Gene: Thanksgivukkah_47 Start: 32779, Stop: 32060, Start Num: 46

Candidate Starts for Thanksgivukkah_47:

(Start: 46 @32779 has 208 MA's), (115, 32551), (121, 32503), (133, 32428), (139, 32407), (140, 32404), (191, 32308), (201, 32254), (204, 32242), (208, 32227), (210, 32221),

Gene: Theia_39 Start: 31764, Stop: 31045, Start Num: 46

Candidate Starts for Theia_39:

(Start: 46 @31764 has 208 MA's), (73, 31710), (83, 31686), (99, 31662), (116, 31530), (140, 31386), (193, 31287), (204, 31224), (208, 31209), (213, 31173), (222, 31116),

Gene: Tiffany_52 Start: 33092, Stop: 32385, Start Num: 44

Candidate Starts for Tiffany_52:

(Start: 44 @33092 has 296 MA's), (114, 32900), (126, 32795), (133, 32762), (204, 32567), (208, 32552),

Gene: Tiger_40 Start: 31297, Stop: 30578, Start Num: 46

Candidate Starts for Tiger_40:

(Start: 46 @31297 has 208 MA's), (73, 31243), (83, 31219), (99, 31195), (116, 31063), (140, 30919), (193, 30820), (204, 30757), (208, 30742), (213, 30706), (222, 30649),

Gene: Timothy_49 Start: 32163, Stop: 31450, Start Num: 44

Candidate Starts for Timothy_49:

(Start: 44 @32163 has 296 MA's), (73, 32112), (121, 31890), (126, 31848), (184, 31707), (198, 31677), (201, 31641), (202, 31638), (204, 31629), (208, 31614), (210, 31608), (223, 31518),

Gene: TinaFeyge_48 Start: 32776, Stop: 32057, Start Num: 46

Candidate Starts for TinaFeyge_48:

(Start: 46 @32776 has 208 MA's), (115, 32548), (121, 32500), (133, 32425), (139, 32404), (140, 32401), (191, 32305), (201, 32251), (202, 32248), (204, 32239), (208, 32224), (210, 32218),

Gene: TinyTimmy_48 Start: 32206, Stop: 31493, Start Num: 44

Candidate Starts for TinyTimmy_48:

(Start: 44 @32206 has 296 MA's), (73, 32155), (121, 31933), (126, 31891), (184, 31750), (198, 31720), (201, 31684), (204, 31672), (208, 31657), (210, 31651), (223, 31561),

Gene: Tinybot_47 Start: 32808, Stop: 32089, Start Num: 46

Candidate Starts for Tinybot_47:

(Start: 46 @32808 has 208 MA's), (115, 32580), (121, 32532), (133, 32457), (139, 32436), (140, 32433), (191, 32337), (201, 32283), (204, 32271), (208, 32256), (210, 32250),

Gene: TipsytheTRex_45 Start: 32262, Stop: 31537, Start Num: 44

Candidate Starts for TipsytheTRex_45:

(Start: 44 @32262 has 296 MA's), (115, 32031), (121, 31983), (128, 31923), (193, 31782), (204, 31719), (208, 31704),

Gene: TiroTheta9_48 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for TiroTheta9_48:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: Toaka_49 Start: 32819, Stop: 32118, Start Num: 44

Candidate Starts for Toaka_49:

(Start: 44 @32819 has 296 MA's), (114, 32624), (115, 32609), (121, 32561), (126, 32519), (131, 32492), (147, 32453), (156, 32432), (186, 32375), (204, 32300), (208, 32285), (213, 32249),

Gene: Todacoro_48 Start: 33068, Stop: 32286, Start Num: 32

Candidate Starts for Todacoro_48:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Tomathan_51 Start: 32822, Stop: 32115, Start Num: 44

Candidate Starts for Tomathan_51:

(Start: 44 @32822 has 296 MA's), (114, 32627), (115, 32612), (126, 32522), (127, 32519), (137, 32477), (204, 32303), (208, 32288), (223, 32192),

Gene: ToneTone_48 Start: 31800, Stop: 31072, Start Num: 44

Candidate Starts for ToneTone_48:

(Start: 44 @31800 has 296 MA's), (70, 31755), (115, 31563), (121, 31515), (126, 31473), (127, 31470), (145, 31404), (171, 31368), (196, 31317), (198, 31308), (204, 31260), (208, 31245), (224, 31146),

Gene: Topanga_45 Start: 32437, Stop: 31700, Start Num: 44

Candidate Starts for Topanga_45:

(Start: 44 @32437 has 296 MA's), (Start: 46 @32431 has 208 MA's), (115, 32191), (121, 32143), (126, 32101), (127, 32098), (146, 32029), (166, 31996), (191, 31948), (204, 31882), (208, 31867), (210, 31861), (213, 31831), (223, 31771),

Gene: Trike_45 Start: 31697, Stop: 30969, Start Num: 44

Candidate Starts for Trike_45:

(Start: 44 @31697 has 296 MA's), (Start: 46 @31691 has 208 MA's), (113, 31481), (115, 31460), (121, 31412), (126, 31370), (127, 31367), (135, 31331), (143, 31304), (204, 31151), (208, 31136), (223, 31040),

Gene: Trixie_47 Start: 33165, Stop: 32434, Start Num: 44

Candidate Starts for Trixie_47:

(Start: 44 @33165 has 296 MA's), (70, 33120), (115, 32931), (121, 32883), (126, 32841), (127, 32838), (142, 32787), (198, 32670), (204, 32622), (208, 32607),

Gene: Trooper_50 Start: 33465, Stop: 32737, Start Num: 44

Candidate Starts for Trooper_50:

(Start: 44 @33465 has 296 MA's), (115, 33228), (121, 33180), (126, 33138), (127, 33135), (198, 32967), (204, 32919), (208, 32904), (210, 32898), (223, 32808),

Gene: TroyPia_49 Start: 32779, Stop: 32060, Start Num: 46

Candidate Starts for TroyPia_49:

(Start: 46 @32779 has 208 MA's), (115, 32551), (121, 32503), (133, 32428), (139, 32407), (140, 32404), (191, 32308), (201, 32254), (204, 32242), (208, 32227), (210, 32221),

Gene: Tubs_49 Start: 33024, Stop: 32320, Start Num: 44

Candidate Starts for Tubs_49:

(Start: 44 @33024 has 296 MA's), (70, 32979), (72, 32976), (73, 32973), (114, 32832), (115, 32817), (121, 32769), (126, 32727), (204, 32508), (208, 32493),

Gene: Tucker_51 Start: 31669, Stop: 30959, Start Num: 55

Candidate Starts for Tucker_51:

(Start: 55 @31669 has 2 MA's), (114, 31474), (121, 31411), (127, 31366), (128, 31351), (143, 31300), (204, 31147), (208, 31132), (210, 31126), (224, 31033),

Gene: Turbido_50 Start: 33493, Stop: 32768, Start Num: 44

Candidate Starts for Turbido_50:

(Start: 44 @33493 has 296 MA's), (115, 33259), (126, 33169), (127, 33166), (167, 33064), (198, 32998), (204, 32950), (208, 32935), (210, 32929),

Gene: Twister_45 Start: 32342, Stop: 31611, Start Num: 46

Candidate Starts for Twister_45:

(Start: 44 @32348 has 296 MA's), (Start: 46 @32342 has 208 MA's), (115, 32102), (121, 32054), (126, 32012), (127, 32009), (146, 31940), (166, 31907), (191, 31859), (204, 31793), (208, 31778), (210, 31772), (213, 31742), (223, 31682),

Gene: TygerBlood_48 Start: 32781, Stop: 32062, Start Num: 46

Candidate Starts for TygerBlood_48:

(Start: 46 @32781 has 208 MA's), (115, 32553), (121, 32505), (133, 32430), (139, 32409), (140, 32406), (191, 32310), (201, 32256), (204, 32244), (208, 32229), (210, 32223),

Gene: Ugenie5_46 Start: 33261, Stop: 32557, Start Num: 44

Candidate Starts for Ugenie5_46:

(Start: 44 @33261 has 296 MA's), (70, 33216), (72, 33213), (73, 33210), (114, 33069), (115, 33054), (121, 33006), (126, 32964), (204, 32745), (208, 32730),

Gene: UhSalsa_38 Start: 29171, Stop: 28410, Start Num: 45

Candidate Starts for UhSalsa_38:

(Start: 27 @29243 has 8 MA's), (Start: 45 @29171 has 28 MA's), (115, 28919), (121, 28871), (128, 28811), (135, 28790), (151, 28739), (179, 28679), (187, 28664), (208, 28577), (211, 28559), (220, 28493), (223, 28481),

Gene: Ulysses_47 Start: 32458, Stop: 31739, Start Num: 46

Candidate Starts for Ulysses_47:

(Start: 46 @32458 has 208 MA's), (115, 32230), (121, 32182), (133, 32107), (139, 32086), (140, 32083), (191, 31987), (201, 31933), (204, 31921), (208, 31906), (210, 31900),

Gene: UnionJack_42 Start: 31250, Stop: 30546, Start Num: 46

Candidate Starts for UnionJack_42:

(Start: 46 @31250 has 208 MA's), (123, 30974), (126, 30944), (127, 30941), (172, 30827), (204, 30725), (208, 30710), (223, 30614),

Gene: Updawg_50 Start: 33361, Stop: 32633, Start Num: 44

Candidate Starts for Updawg_50:

(Start: 44 @33361 has 296 MA's), (115, 33124), (121, 33076), (126, 33034), (127, 33031), (198, 32863), (204, 32815), (208, 32800), (210, 32794),

Gene: VA6_50 Start: 33457, Stop: 32729, Start Num: 44

Candidate Starts for VA6_50:

(Start: 44 @33457 has 296 MA's), (115, 33220), (126, 33130), (127, 33127), (142, 33076), (187, 32983), (198, 32959), (204, 32911), (208, 32896), (210, 32890), (223, 32800),

Gene: VC3_52 Start: 33241, Stop: 32555, Start Num: 44

Candidate Starts for VC3_52:

(Start: 44 @33241 has 296 MA's), (115, 33031), (127, 32938), (128, 32923), (187, 32815), (198, 32791), (201, 32755), (204, 32743), (208, 32728), (213, 32692), (223, 32632),

Gene: Vanisoa_49 Start: 33845, Stop: 33144, Start Num: 44

Candidate Starts for Vanisoa_49:

(Start: 44 @33845 has 296 MA's), (114, 33650), (115, 33635), (121, 33587), (126, 33545), (143, 33488), (147, 33479), (156, 33458), (186, 33401), (204, 33326), (208, 33311),

Gene: Vash_40 Start: 31693, Stop: 32385, Start Num: 46

Candidate Starts for Vash_40:

(Start: 46 @31693 has 208 MA's), (70, 31741), (115, 31909), (127, 32005), (208, 32218), (210, 32224), (223, 32314),

Gene: Veracruz_47 Start: 33068, Stop: 32286, Start Num: 32

Candidate Starts for Veracruz_47:

(Start: 32 @33068 has 7 MA's), (Start: 46 @33014 has 208 MA's), (Start: 63 @32978 has 4 MA's), (114, 32792), (126, 32687), (164, 32585), (204, 32468), (208, 32453), (223, 32357),

Gene: Vix_52 Start: 33289, Stop: 32582, Start Num: 44

Candidate Starts for Vix_52:

(Start: 44 @33289 has 296 MA's), (114, 33097), (126, 32992), (133, 32959), (204, 32764), (208, 32749),

Gene: VohminGhazi_51 Start: 32086, Stop: 31349, Start Num: 44

Candidate Starts for VohminGhazi_51:

(Start: 44 @32086 has 296 MA's), (70, 32041), (115, 31849), (128, 31741), (140, 31699), (186, 31612), (204, 31537), (208, 31522), (210, 31516), (224, 31423),

Gene: Waits_52 Start: 31687, Stop: 30962, Start Num: 43

Candidate Starts for Waits_52:

(Start: 43 @31687 has 20 MA's), (83, 31609), (89, 31597), (115, 31447), (126, 31357), (127, 31354), (132, 31327), (156, 31270), (204, 31144), (208, 31129),

Gene: WalterMcMickey_45 Start: 32348, Stop: 31611, Start Num: 44

Candidate Starts for WalterMcMickey_45:

(Start: 44 @32348 has 296 MA's), (Start: 46 @32342 has 208 MA's), (115, 32102), (121, 32054), (126, 32012), (127, 32009), (146, 31940), (166, 31907), (191, 31859), (204, 31793), (208, 31778), (210, 31772), (213, 31742), (223, 31682),

Gene: Wander_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Wander_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Watson_52 Start: 33198, Stop: 32491, Start Num: 44

Candidate Starts for Watson_52:

(Start: 44 @33198 has 296 MA's), (114, 33006), (126, 32901), (133, 32868), (204, 32673), (208, 32658),

Gene: WeiHuaDA_51 Start: 34006, Stop: 33275, Start Num: 44

Candidate Starts for WeiHuaDA_51:

(Start: 44 @34006 has 296 MA's), (Start: 60 @33976 has 1 MA's), (70, 33961), (115, 33772), (121, 33724), (126, 33682), (127, 33679), (142, 33628), (198, 33511), (204, 33463), (208, 33448), (213, 33412),

Gene: Whabigail7_50 Start: 33478, Stop: 32753, Start Num: 44

Candidate Starts for Whabigail7_50:

(Start: 44 @33478 has 296 MA's), (115, 33244), (126, 33154), (127, 33151), (167, 33049), (198, 32983), (204, 32935), (208, 32920), (210, 32914),

Gene: WideWale_50 Start: 33361, Stop: 32633, Start Num: 44

Candidate Starts for WideWale_50:

(Start: 44 @33361 has 296 MA's), (115, 33124), (121, 33076), (126, 33034), (127, 33031), (198, 32863), (204, 32815), (208, 32800), (210, 32794),

Gene: Wiks_50 Start: 31868, Stop: 31140, Start Num: 44

Candidate Starts for Wiks_50:

(Start: 44 @31868 has 296 MA's), (70, 31823), (115, 31631), (121, 31583), (126, 31541), (127, 31538), (145, 31472), (171, 31436), (196, 31385), (198, 31376), (204, 31328), (208, 31313), (224, 31214),

Gene: Wilbur_48 Start: 32778, Stop: 32059, Start Num: 46

Candidate Starts for Wilbur_48:

(Start: 46 @32778 has 208 MA's), (115, 32550), (121, 32502), (133, 32427), (139, 32406), (140, 32403), (191, 32307), (201, 32253), (204, 32241), (208, 32226), (210, 32220),

Gene: Wile_47 Start: 32788, Stop: 32069, Start Num: 46

Candidate Starts for Wile_47:

(Start: 46 @32788 has 208 MA's), (115, 32560), (121, 32512), (127, 32467), (139, 32416), (140, 32413), (141, 32410), (191, 32317), (198, 32299), (204, 32251), (208, 32236),

Gene: Wizard007_48 Start: 32786, Stop: 32067, Start Num: 46

Candidate Starts for Wizard007_48:

(Start: 46 @32786 has 208 MA's), (121, 32510), (133, 32435), (139, 32414), (140, 32411), (191, 32315), (201, 32261), (204, 32249), (208, 32234), (210, 32228),

Gene: Wooldri_54 Start: 33118, Stop: 32411, Start Num: 44

Candidate Starts for Wooldri_54:

(Start: 44 @33118 has 296 MA's), (114, 32926), (126, 32821), (133, 32788), (204, 32593), (208, 32578),

Gene: WunderPhul_51 Start: 31866, Stop: 31138, Start Num: 44

Candidate Starts for WunderPhul_51:

(Start: 44 @31866 has 296 MA's), (70, 31821), (115, 31629), (121, 31581), (126, 31539), (127, 31536), (145, 31470), (171, 31434), (196, 31383), (198, 31374), (204, 31326), (208, 31311), (224, 31212),

Gene: Xena_46 Start: 32754, Stop: 32035, Start Num: 46

Candidate Starts for Xena_46:

(Start: 46 @32754 has 208 MA's), (115, 32526), (121, 32478), (127, 32433), (139, 32382), (140, 32379), (141, 32376), (191, 32283), (198, 32265), (204, 32217), (208, 32202),

Gene: XianYue_48 Start: 32830, Stop: 32096, Start Num: 44

Candidate Starts for XianYue_48:

(Start: 44 @32830 has 296 MA's), (115, 32593), (121, 32545), (126, 32503), (127, 32500), (131, 32476), (186, 32359), (187, 32356), (198, 32332), (204, 32284), (208, 32269), (210, 32263), (223, 32173),

Gene: Yecey3_50 Start: 32497, Stop: 31787, Start Num: 44

Candidate Starts for Yecey3_50:

(Start: 44 @32497 has 296 MA's), (70, 32452), (115, 32284), (126, 32194), (186, 32050), (204, 31975), (208, 31960),

Gene: YoSam321_48 Start: 32775, Stop: 32056, Start Num: 46

Candidate Starts for YoSam321_48:

(Start: 46 @32775 has 208 MA's), (115, 32547), (121, 32499), (133, 32424), (139, 32403), (140, 32400), (191, 32304), (201, 32250), (204, 32238), (208, 32223), (210, 32217),

Gene: Yogi_38 Start: 29144, Stop: 28383, Start Num: 45

Candidate Starts for Yogi_38:

(Start: 27 @29216 has 8 MA's), (Start: 45 @29144 has 28 MA's), (121, 28844), (128, 28784), (135, 28763), (151, 28712), (179, 28652), (187, 28637), (208, 28550), (211, 28532), (220, 28466), (223, 28454),

Gene: Yokurt_51 Start: 31868, Stop: 31140, Start Num: 44

Candidate Starts for Yokurt_51:

(Start: 44 @31868 has 296 MA's), (70, 31823), (115, 31631), (121, 31583), (126, 31541), (127, 31538), (145, 31472), (171, 31436), (196, 31385), (198, 31376), (204, 31328), (208, 31313), (224, 31214),

Gene: Yoncess_38 Start: 29145, Stop: 28384, Start Num: 45

Candidate Starts for Yoncess_38:

(Start: 27 @29217 has 8 MA's), (Start: 45 @29145 has 28 MA's), (115, 28893), (121, 28845), (128, 28785), (135, 28764), (151, 28713), (179, 28653), (187, 28638), (208, 28551), (211, 28533), (220, 28467), (223, 28455),

Gene: Yvonnetastic_110 Start: 62558, Stop: 63304, Start Num: 49

Candidate Starts for Yvonnetastic_110:

(Start: 49 @62558 has 4 MA's), (Start: 52 @62564 has 5 MA's), (62, 62576), (65, 62585), (68, 62591), (85, 62624), (101, 62675), (107, 62708), (120, 62837), (124, 62864), (128, 62909), (136, 62924), (138, 62933), (167, 62975), (193, 63035), (198, 63047), (210, 63116), (212, 63140), (222, 63203), (233, 63239), (239, 63290),

Gene: Zaka_51 Start: 31868, Stop: 31140, Start Num: 44

Candidate Starts for Zaka_51:

(Start: 44 @31868 has 296 MA's), (70, 31823), (115, 31631), (121, 31583), (126, 31541), (127, 31538), (145, 31472), (171, 31436), (196, 31385), (198, 31376), (204, 31328), (208, 31313), (224, 31214),

Gene: Zetzy_51 Start: 32769, Stop: 32062, Start Num: 44

Candidate Starts for Zetzy_51:

(Start: 44 @32769 has 296 MA's), (114, 32577), (126, 32472), (133, 32439), (204, 32244), (208, 32229),

Gene: Zimmer_46 Start: 33726, Stop: 33022, Start Num: 44

Candidate Starts for Zimmer_46:

(Start: 44 @33726 has 296 MA's), (114, 33534), (115, 33519), (127, 33426), (201, 33222), (204, 33210), (208, 33195), (210, 33189), (213, 33159),

Gene: Zion_9 Start: 4717, Stop: 5490, Start Num: 54

Candidate Starts for Zion_9:

(Start: 54 @4717 has 8 MA's), (59, 4729), (70, 4753), (77, 4771), (118, 4993), (128, 5077), (129, 5080), (162, 5161), (202, 5257), (207, 5275), (208, 5281), (211, 5299), (212, 5311), (228, 5389), (232, 5401),

Gene: Zolita_42 Start: 32493, Stop: 31774, Start Num: 46

Candidate Starts for Zolita_42:

(Start: 46 @32493 has 208 MA's), (70, 32445), (114, 32277), (127, 32169), (201, 31965), (204, 31953), (208, 31938), (213, 31902), (222, 31845),

Gene: Zulu_51 Start: 31650, Stop: 30940, Start Num: 55

Candidate Starts for Zulu_51:

(Start: 55 @31650 has 2 MA's), (114, 31455), (121, 31392), (127, 31347), (128, 31332), (143, 31281), (204, 31128), (208, 31113), (210, 31107), (224, 31014),