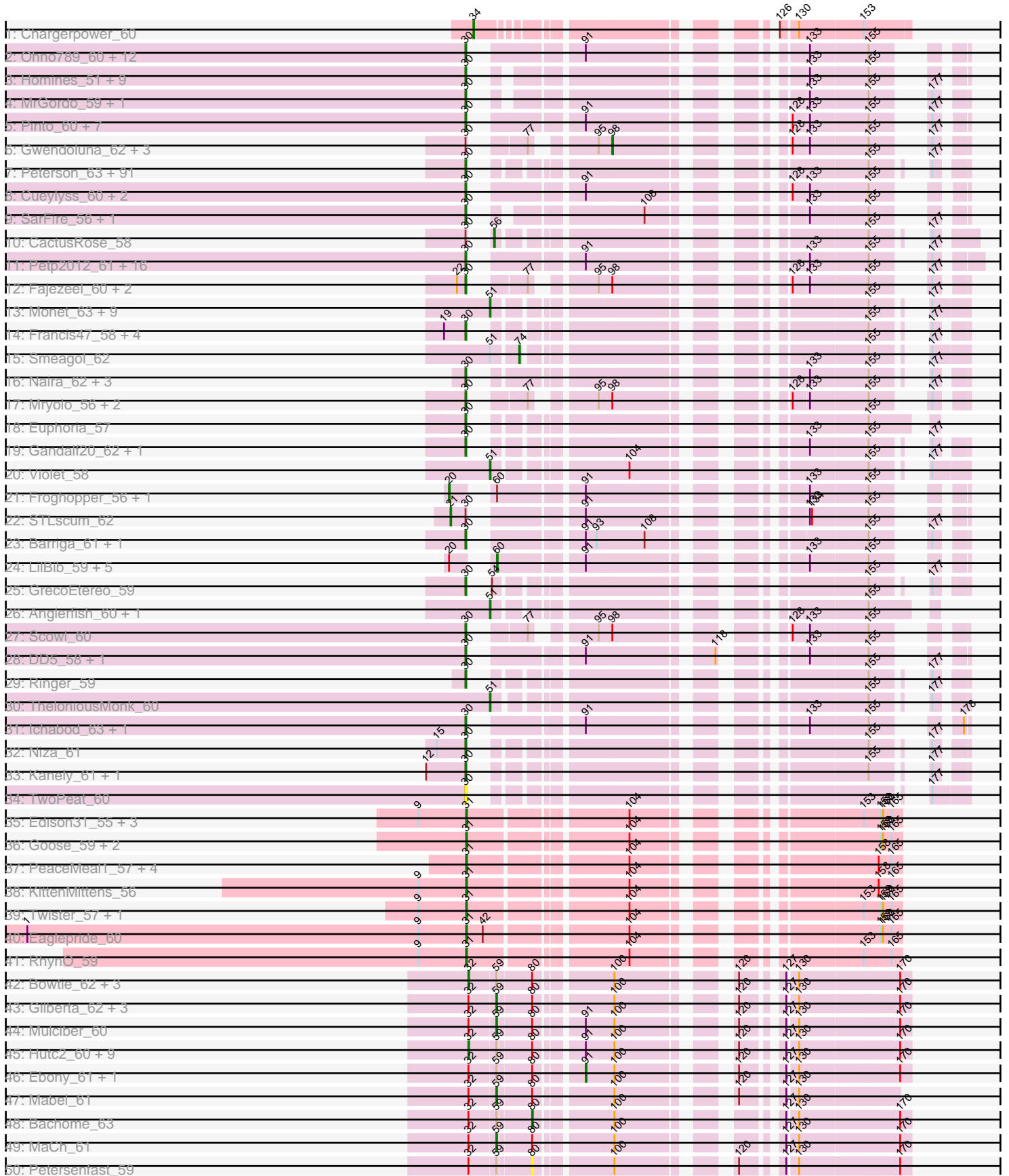
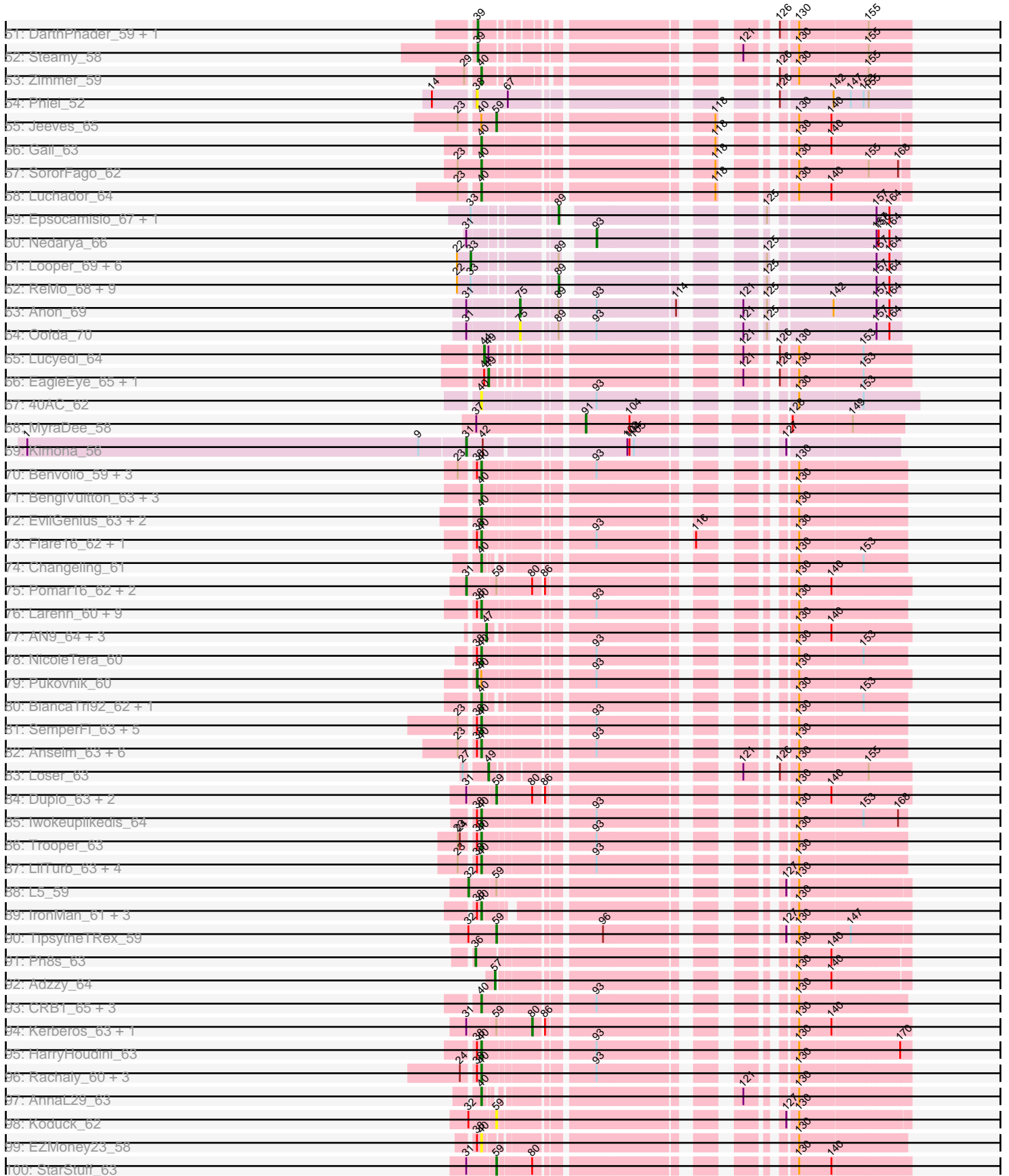


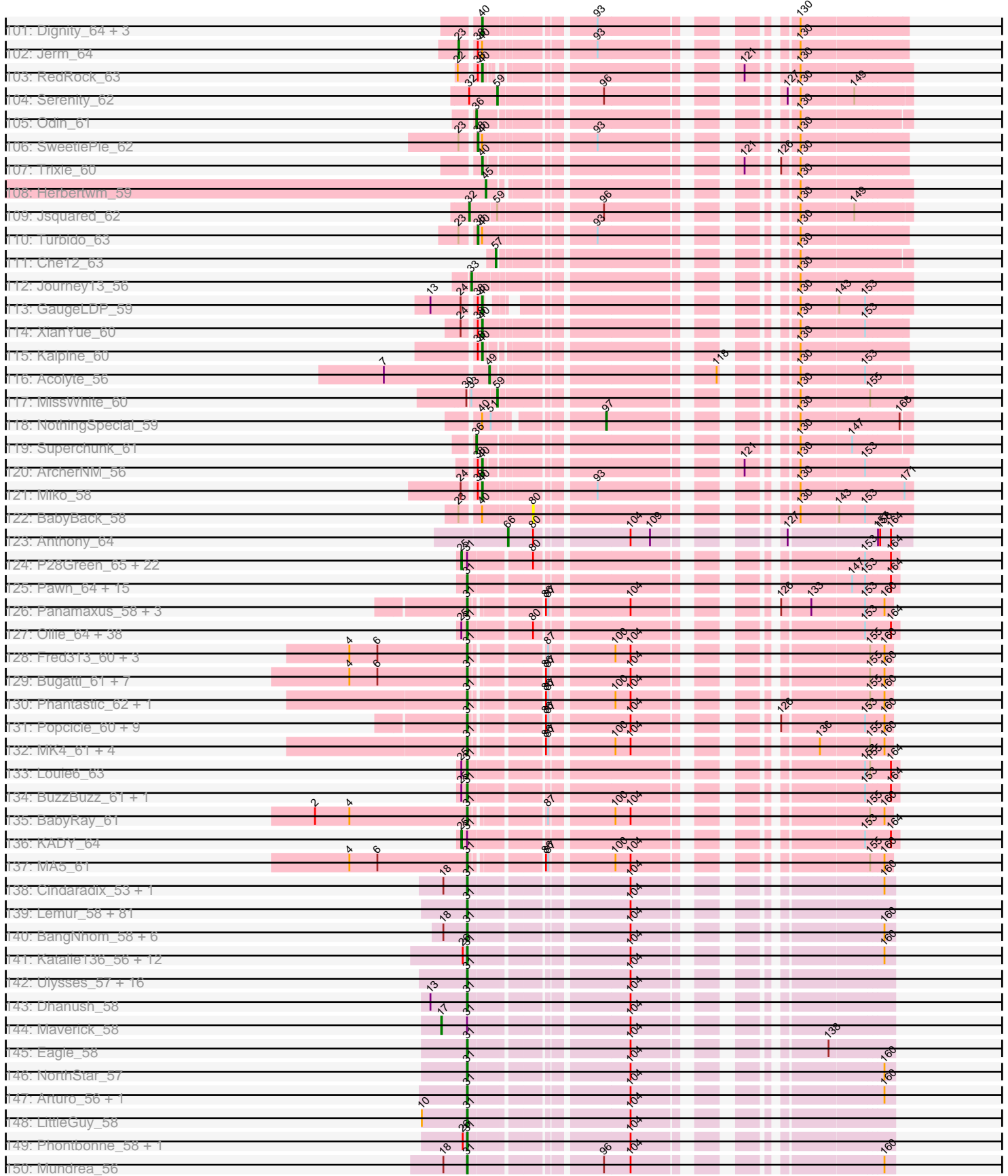
Pham 157450



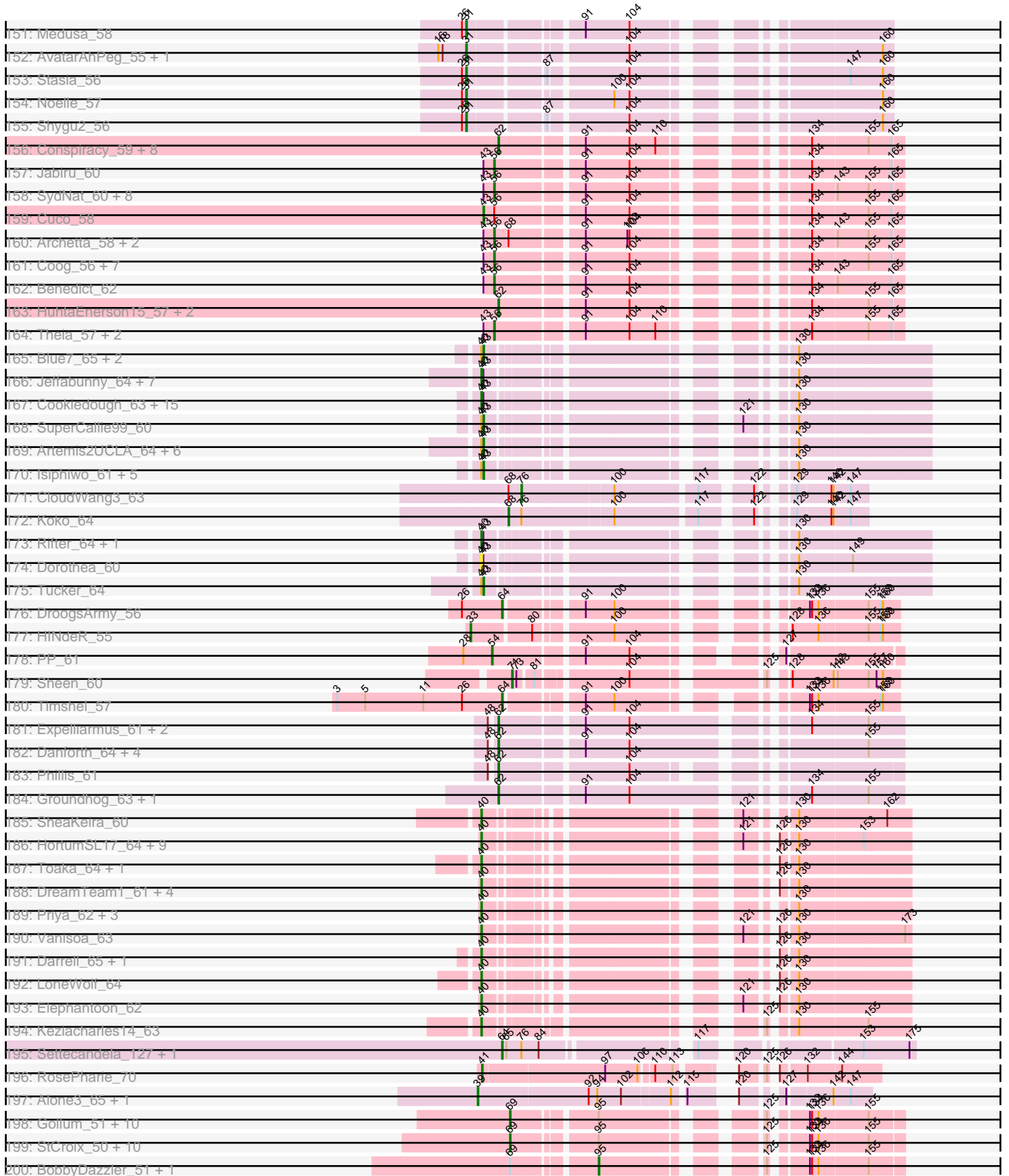
Pham 157450



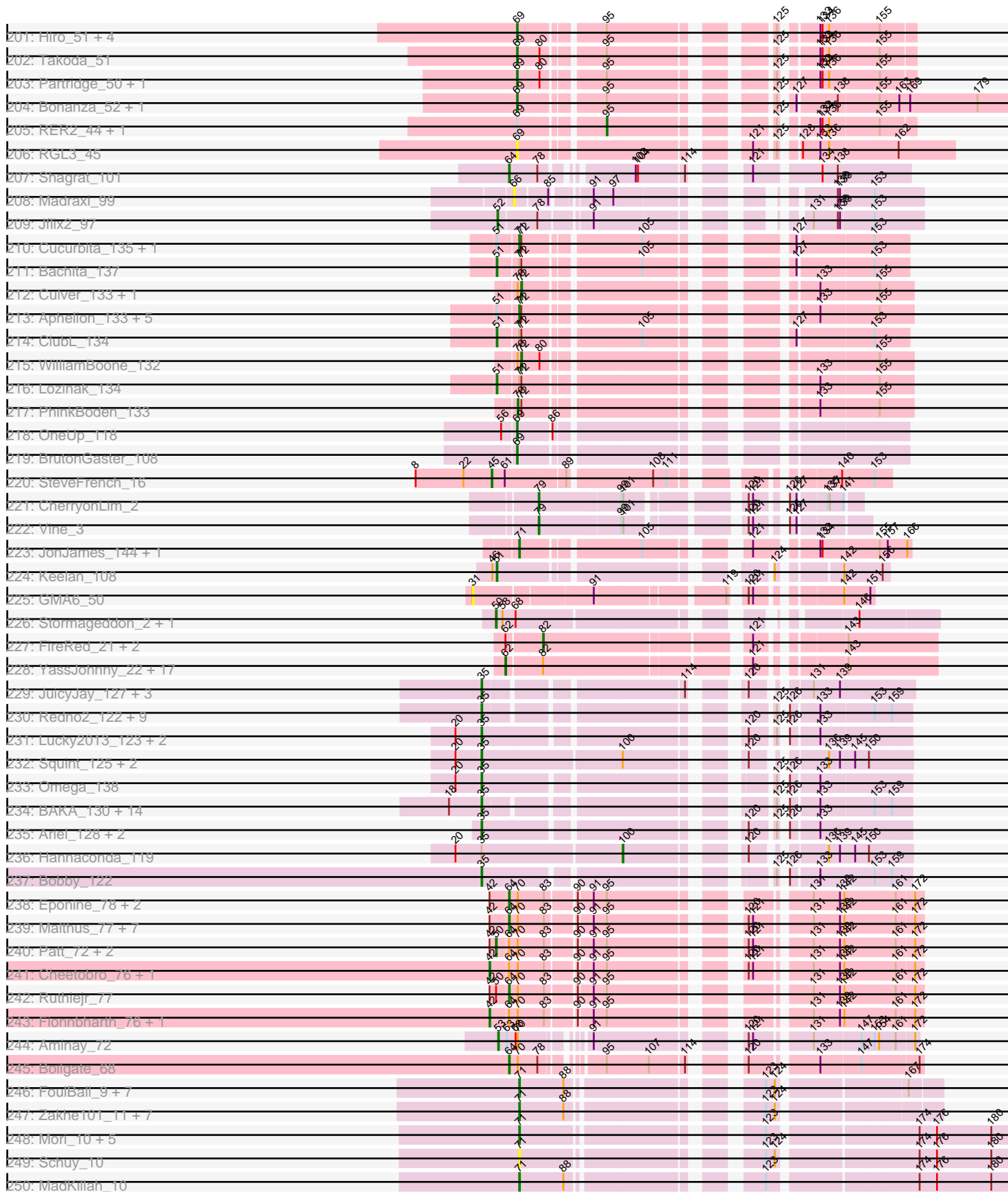
Pham 157450



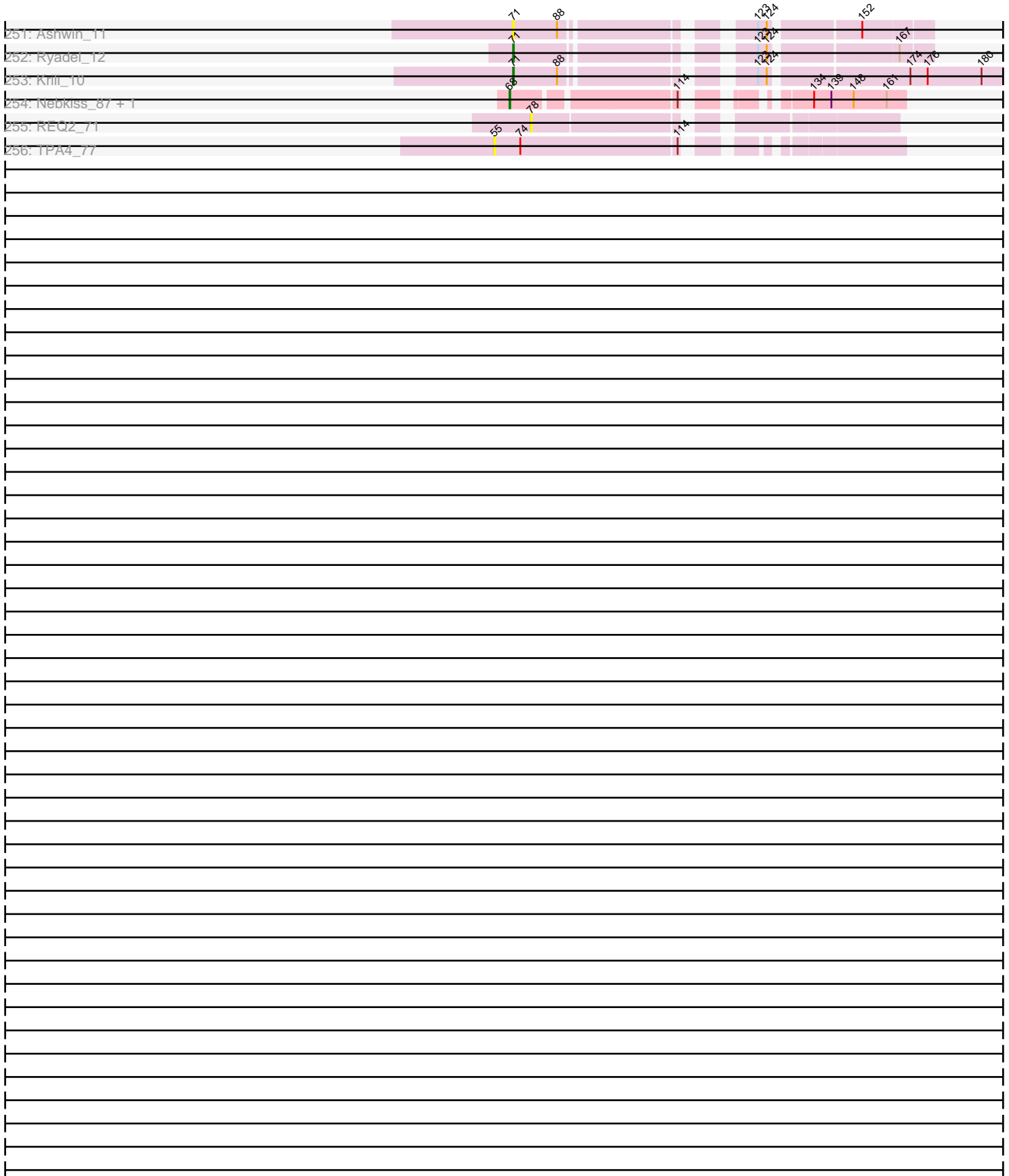
Pham 157450



Pham 157450



Pham 157450



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 157450 Report

This analysis was run 04/13/24 on database version 558.

Pham number 157450 has 963 members, 67 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_60
- Track 2 : Ohno789_60, PSullivan_58, Beatrix_59, PherrisBueller_58, Dreamboat_60, Pita2_62, GageAP_60, Bethlehem_59, Bexan_57, StrongArm_58, Jasper_60, Pari_62, SpikeBT_58
- Track 3 : Homines_51, MaryBeth_58, SkiPole_64, Corvo_60, MetalQZJ_57, Carlyle_59, Paraselene_57, Dynamix_61, Switzer_60, Doom_58
- Track 4 : MrGordo_59, Big3_58
- Track 5 : Pinto_60, DreamCatcher_63, Rufus_61, BPBiebs31_61, Atkinbua_63, RidgeCB_59, Rubeus_59, Lopton_59
- Track 6 : Gwendoluna_62, IgnatiusPatJac_59, Teodoridan_57, BluSpix_57
- Track 7 : Peterson_63, Buttons_57, Sagefire_62, Kenmech_64, Wheeler_59, Watermelon_60, Oogway_59, Solon_57, Dexes_59, Tripl3t_62, Marge_58, Museum_61, Sumter_55, Magnito_59, Eyeball_61, Target_61, Briton15_64, Ruotula_62, Gompeii16_59, A6_53, SwissCheese_60, ConceptII_62, Bruns_58, Tasp14_63, Bircsak_59, Marsha_59, HanShotFirst_61, Killigrew_59, Dulcie_61, StewieG_56, Licorice_61, Kugel_59, Smairt_63, JackSparrow_62, Abbyshoes_62, Rajelicia_61, Seabiscuit_63, Blue_58, Bigfoot_53, Dussy_61, Lesedi_55, HarryOW_59, BK1_53, Parliament_61, Chanagan_55, Perseus_60, DrFeelGood_57, Edtherson_59, Zeuska_59, Adahisdi_60, Aeneas_63, Nerujay_62, PattyP_62, Abrogate_590, Marcell_56, Kykar_60, Fushigi_56, Hermia_57, Magnar_57, Burton_60, Crispicous1_57, Sibs6_62, Ashballer_62, Ajay_60, Petruchio_58, Applejack_56, Moose_58, Pippin_60, Snazzy_58, Forsytheast_58, BaconJack_65, Ciao_58, McGuire_61, Bxb1_54, Paphu_59, JC27_62, BillKnuckles_57, Fascinus_55, Mule_58, Hope4ever_61, Pelly_60, PhrostyMug_60, Trouble_61, Zeeculate_57, Jorgensen_60, Seanderson_59, BigPaolini_58, Zephyr_61, BeesKnees_62, Norz_61, Lamina13_63, Traft412_62
- Track 8 : Cueyliss_60, Graduation_63, Bones_59
- Track 9 : SarFire_56, Thor_56
- Track 10 : CactusRose_58
- Track 11 : Petp2012_61, HermioneGrange_61, Tote_56, Jerm2_61, PascalRango_59, PinkPlastic_60, MPlant7149_59, NEHalo_57, JuliaChild_61, Bob3_59, Makemake_61, Molly_62, Arlo_58, Rohr_61, AFIS_56, Swole_60, BigMau_62
- Track 12 : Fajezeel_60, Acme_61, Greg_60
- Track 13 : Monet_63, Arcanine_62, Topgun_58, Rutherford_62, ILeeKay_62, Wilkins_58, Rhynn_58, Slagathor_62, KBG_60, Treddle_61
- Track 14 : Francis47_58, PacerPaul_59, Agaliana_55, Papez_62, Maroc7_57

- Track 15 : Smeagol_62
- Track 16 : Naira_62, Alvin_58, Fenn_62, Squee_60
- Track 17 : Mryolo_56, Gyzlar_55, Michley_62
- Track 18 : Euphoria_57
- Track 19 : Gandalf20_62, Espresso_57
- Track 20 : Violet_58
- Track 21 : Froghopper_56, Alsfro_64
- Track 22 : STLscum_62
- Track 23 : Barriga_61, Nhonho_58
- Track 24 : LilBib_59, Sunshine924_61, KyMonks1A_62, Turj99_57, QTRlifeCrisis_62, KSSJEB_59
- Track 25 : GrecoEtereo_59
- Track 26 : Anglerfish_60, Manatee_60
- Track 27 : Scowl_60
- Track 28 : DD5_58, Lockley_57
- Track 29 : Ringer_59
- Track 30 : TheloniousMonk_60
- Track 31 : Ichabod_63, U2_58
- Track 32 : Niza_61
- Track 33 : Kanely_61, Altman_62
- Track 34 : TwoPeat_60
- Track 35 : Edison31_55, Topanga_56, Kristoff_58, Rebeuca_59
- Track 36 : Goose_59, OKCentral2016_58, Chupacabra_57
- Track 37 : PeaceMeal1_57, Severus_57, Drake94_57, Poompha_57, Trike_56
- Track 38 : KittenMittens_56
- Track 39 : Twister_57, WalterMcMickey_57
- Track 40 : Eaglepride_60
- Track 41 : RhynO_59
- Track 42 : Bowtie_62, Timothy_61, Flaverint_62, Lucivia_62
- Track 43 : Gilberta_62, Snape_61, Orange_60, Sham4_61
- Track 44 : Mulciber_60
- Track 45 : Hutc2_60, Insomnia_60, Bud_60, Aneem_62, Jabith_62, Et2Brutus_60, Joselito_62, TinyTimmy_59, Munch_61, Fibonacci_61
- Track 46 : Ebony_61, Salz_60
- Track 47 : Mabel_61
- Track 48 : Bachome_63
- Track 49 : MaCh_61
- Track 50 : Petersenfast_59
- Track 51 : DarthPhader_59, Refuge_59
- Track 52 : Steamy_58
- Track 53 : Zimmer_59
- Track 54 : Phlei_52
- Track 55 : Jeeves_65
- Track 56 : Gail_63
- Track 57 : SororFago_62
- Track 58 : Luchador_64
- Track 59 : Epsocamisio_67, Nebulosus_68
- Track 60 : Nedarya_66
- Track 61 : Looper_69, Boohoo_70, Rosalind_68, DekHockey33_71, KatherineG_70, Soups_70, Waits_70
- Track 62 : ReMo_68, Anaysia_70, Remus_70, LastResort_68, Battleship_72, MinecraftSteve_70, JSwag_69, ShayRa_70, Switzerland_69, Strosahl_70
- Track 63 : Anon_69

- Track 64 : Oofda_70
- Track 65 : Lucyedi_64
- Track 66 : EagleEye_65, PainterBoy_64
- Track 67 : 40AC_62
- Track 68 : MyraDee_58
- Track 69 : Kimona_56
- Track 70 : Benvolio_59, Power_61, JoshKayV_64, Echild_62
- Track 71 : BengiVuitton_63, AN3_65, VA6_63, Deloris_63
- Track 72 : EvilGenius_63, KingCyrus_63, ChipMunk_64
- Track 73 : Flare16_62, NaSiaTalie_62
- Track 74 : Changeling_61
- Track 75 : Pomar16_62, DBQu4n_63, D29_59
- Track 76 : Larenn_60, Equemioh13_62, Centaur_63, Baehexic_61, Malec_61, Piro94_62, Updawg_63, Jaan_62, MiculUcigas_62, WideWale_63
- Track 77 : AN9_64, ANI8_64, C3_58, VC3_64
- Track 78 : NicoleTera_60
- Track 79 : Pukovnik_60
- Track 80 : BiancaTri92_62, Leogania_62
- Track 81 : SemperFi_63, QueenBeesly_62, Georgie2_63, SnapTap_62, Crucio_62, FiringLine_62
- Track 82 : Anselm_63, Dalmatian_63, QueenB2_61, DudeLittle_61, Fameo_62, Retro23_63, Heffalump_61
- Track 83 : Loser_63
- Track 84 : Duplo_63, D32_62, Naji_63
- Track 85 : Iwokeuplikedis_64
- Track 86 : Trooper_63
- Track 87 : LilTurb_63, AbbyPaige_64, Agape74_64, Buggy_64, Drake55_64
- Track 88 : L5_59
- Track 89 : IronMan_61, Landor_61, Bactobuster_60, Phaded_61
- Track 90 : TipsytheTRex_59
- Track 91 : Ph8s_63
- Track 92 : Adzzy_64
- Track 93 : CRB1_65, LadyBird_67, 20ES_65, First_0064
- Track 94 : Kerberos_63, Tomathan_63
- Track 95 : HarryHoudini_63
- Track 96 : Rachaly_60, BobSwaget_57, TarsusIV_59, Lokk_58
- Track 97 : AnnaL29_63
- Track 98 : Koduck_62
- Track 99 : EZMoney23_58
- Track 100 : StarStuff_63
- Track 101 : Dignity_64, Leviathan_64, Smeagan_65, Whabigail7_63
- Track 102 : Jerm_64
- Track 103 : RedRock_63
- Track 104 : Serenity_62
- Track 105 : Odin_61
- Track 106 : SweetiePie_62
- Track 107 : Trixie_60
- Track 108 : Herbertwm_59
- Track 109 : Jsquared_62
- Track 110 : Turbido_63
- Track 111 : Che12_63
- Track 112 : Journey13_56
- Track 113 : GaugeLDP_59

- Track 114 : XianYue_60
- Track 115 : Kalpine_60
- Track 116 : Acolyte_56
- Track 117 : MissWhite_60
- Track 118 : NothingSpecial_59
- Track 119 : Superchunk_61
- Track 120 : ArcherNM_56
- Track 121 : Miko_58
- Track 122 : BabyBack_58
- Track 123 : Anthony_64
- Track 124 : P28Green_65, Jobu08_62, Stagni_64, Malinsilva_66, LBerry_65, Rummer_63, Grub_64, Sabia_64, Lilith_64, Methuselah_59, Marie_62, Anubis_67, Pembroke_64, SoYo_64, Snickers_63, Microwolf_62, MadMarie_64, PotatoSplit_65, Tiffany_63, DaHudson_63, JenCasNa_65, Taurus_65, Grum1_64
- Track 125 : Pawn_64, Heliosoles_63, JeppNRM_65, ACFishhook_62, Kalb97_65, Gemma_63, Manu_64, Kalnoky_65, PhishRPhriends_62, HaveUMetTed_65, Groupthink_65, OlanP_63, Reba_64, Marius_65, PurpleHaze_64, Phranny_65
- Track 126 : Panamaxus_58, Lambert1_60, Caviar_60, Margo_60
- Track 127 : Ollie_64, MoneyMay_63, HashRod_65, AgronaGT15_63, Phoxy_64, Wooldri_66, Bxz2_59, Spike509_64, GtownJaz_64, Cullens_64, Beauxregard13_64, SoilDragon_64, Vix_62, LugYA_67, Penny1_65, Hercules11_64, PGHhamlin_66, EpicPhail_65, Dieselweasel_65, MarQuardt_64, Aglet_65, GingkoMaracino_64, BreSam8_64, Mainiac_64, Watson_63, Soshari_66, Farber_64, Zetzy_63, Phoebe_65, JHC117_62, Daishi_63, Grif_64, StepMih_63, Sabinator_63, Fernando_64, MuchMore_67, Colbster_63, LarryKay_64, AugsMagnumOpus_67
- Track 128 : Fred313_60, HelDan_61, Scout_61, Heathen_61
- Track 129 : Bugatti_61, Giroux_61, Idleandcovert_61, TNguyen7_62, Puppy_62, Pistachio_62, BlueBird_63, SaturnRing_61
- Track 130 : Phantastic_62, Rockstar_59
- Track 131 : Popcicle_60, Noella_60, ResDef_60, Veracruz_59, Hookmount_60, Todacoro_60, Pocahontas_60, QuinnKiro_59, Texage_59, Norbert_58
- Track 132 : MK4_61, JF4_59, B1_54, JF2_59, Isca_60
- Track 133 : Louie6_63
- Track 134 : BuzzBuzz_61, Misomonster_65
- Track 135 : BabyRay_61
- Track 136 : KADY_64
- Track 137 : MA5_61
- Track 138 : Cindaradix_53, Miramae_55
- Track 139 : Lemur_58, Nyxis_58, Morrow_59, Chaph_58, JetBlade_58, TroyPia_59, LittleB_58, Phacado_58, Wizard007_58, BubbleTrouble_57, Skipitt_57, Kremtemulon_55, Roosevelt_57, Florean_58, MeeZee_58, Camperdownii_56, Pipcraft_56, Commander_58, Taquarus_58, CentreCat_58, Connomayer_58, Eros_58, Blackmoor_58, Peaches_57, Deano_57, Shaka_57, Citius_58, Eapen_58, Annyong_58, Palestino_57, Funston_57, OKaNui_58, JoongJeon_57, Mazhar510_58, Lunsford_58, TygerBlood_58, Koreni_57, Millski_57, Gadost_58, Avle17_58, Caelakin_58, Sabertooth_58, Melvin_60, Broseidon_58, Bartimeaus_58, Bruiser_57, Burger_56, NotAPhaseMom_58, Houdini22_58, Flux_58, Maxo_59, Romney_57, Sparxx_59, Lorenzo_58, Pumbaa_58, TiroTheta9_58, YoSam321_58, Kingmustik0402_58, Jaykayelowell_56, Relief_57, TinaFeyge_57, Wander_58, Clarenza_57, PeterPeter_58, Nemo27_58, Polymorphads_59, Bombshell_58, Ruin_58, Albee_58, Wilbur_58, Alberto7_59, KFPoly_57, Thanksgivukkah_57, Baby16_58, Scamp_58, LappelDuVide_56, Druantia_58, Holli_57, HamSlice_56, Cocoaberry_58, Kyeey_58, Kamy_57

- Track 140 : BangNhom_58, ChampagnePapi_60, Obama12_59, Cerulean_59, Happiness_57, LHTSCC_60, SheldonCooper_59
- Track 141 : Katalie136_56, Badger_55, Bumblebee11_55, Cici_56, Xena_55, Datway_56, AbbysRanger_56, PetiteSangsue_56, Perplexer_56, Wile_56, Achebe_55, Morpher26_56, Backyardigan_54
- Track 142 : Ulysses_57, Phighter1804_58, Iceman_58, DirtyDunning_57, Eurydice_59, LeoAvram_57, Spino_57, BellusTerra_59, Ohfah_59, Nebs_59, Iracema64_59, Cintron_57, LochMonster_59, ICleared_58, Felipe_59, Tinybot_57, Abdiel_58
- Track 143 : Dhanush_58
- Track 144 : Maverick_58
- Track 145 : Eagle_58
- Track 146 : NorthStar_57
- Track 147 : Arturo_56, Kratak_57
- Track 148 : LittleGuy_58
- Track 149 : Phontbonne_58, Eris_57
- Track 150 : Mundrea_56
- Track 151 : Medusa_58
- Track 152 : AvatarAhPeg_55, Stink_52
- Track 153 : Stasia_56
- Track 154 : Noelle_57
- Track 155 : Shygu2_56
- Track 156 : Conspiracy_59, Phlorence_57, Tiger_58, ForGetIt_59, Jovo_59, AgentM_58, PickleBack_59, Lev2_59, Aragog_58
- Track 157 : Jabiru_60
- Track 158 : SydNat_60, PetterN_64, Scorpia_63, Chadwick_61, Ghoulboy_60, Airmid_59, Zolita_59, Naca_59, EITiger69_61
- Track 159 : Cuco_58
- Track 160 : Archetta_58, Bluefalcon_56, Discoknowium_57
- Track 161 : Coog_56, UnionJack_60, George_55, MarysWell_58, Midas2_56, Swirley_59, Milcery_57, LittleCherry_57
- Track 162 : Benedict_62
- Track 163 : HuhtaEnerson15_57, Bonamassa_56, Tarynearal_55
- Track 164 : Theia_57, Dublin_58, Micasa_56
- Track 165 : Blue7_65, Hammer_64, Roksolana_65
- Track 166 : Jeffabunny_64, Hexamo_64, ToneTone_61, Gladiator_61, Yokurt_63, Helmet_65, Indra_67, Garak_65
- Track 167 : Cookiedough_63, Blinn1_66, Priamo_65, JewelBug_63, VohminGhazi_63, Kazan_64, DaVinci_61, BABullseye_56, Jordennis_62, Candra_61, Pmask_62, EricB_62, Neeharika16_60, Newrala_63, GreedyLawyer_61, Kipper29_63
- Track 168 : SuperCallie99_60
- Track 169 : Artemis2UCLA_64, WunderPhul_64, CloudWang3_65, Wiks_63, Zaka_64, Koko_66, Zulu_65
- Track 170 : Isiphiwo_61, SuperAwesome_63, Chartreuse_60, Hoot_58, SmellyB_63, McFly_63
- Track 171 : CloudWang3_63
- Track 172 : Koko_64
- Track 173 : Rifter_64, Gruunaga_64
- Track 174 : Dorothea_60
- Track 175 : Tucker_64
- Track 176 : DroogsArmy_56
- Track 177 : HINdeR_55

- Track 178 : PP_61
- Track 179 : Sheen_60
- Track 180 : Timshel_57
- Track 181 : Expelliarmus_61, Dixon_63, Smeadley_64
- Track 182 : Danforth_64, Stephig9_63, Saintus_59, Roary_65, NearlyHeadless_64
- Track 183 : Phillis_61
- Track 184 : Groundhog_63, Astro_64
- Track 185 : SheaKeira_60
- Track 186 : HortumSL17_64, Tubs_63, Beemo_64, Aliter_64, Alma_62, Scherzo_64, Myxus_63, Ugenie5_60, Phonnegut_64, Phaeder_63
- Track 187 : Toaka_64, Rahalelujah_63
- Track 188 : DreamTeam1_61, Arissanae_62, Charm_61, BogosyJay_62, Maminiaina_62
- Track 189 : Priya_62, Eidsmoe_62, Fayely_62, Conquerage_62
- Track 190 : Vanisoa_63
- Track 191 : Darrell_65, Yecey3_64
- Track 192 : LoneWolf_64
- Track 193 : Elephantoon_62
- Track 194 : Keziacharles14_63
- Track 195 : Settecandela_127, Phrappuccino_127
- Track 196 : RosePharie_70
- Track 197 : Alone3_65, LuckySocke_64
- Track 198 : Gollum_51, Belenaria_51, Phrankenstein_51, RexFury_50, Shuman_51, Nancinator_51, UhSalsa_51, Natosaleda_50, Espica_51, AppleCloud_48, PhailMary_50
- Track 199 : StCroix_50, Lillie_51, Rhodalysa_51, Bradshaw_51, Swann_51, CosmicSans_51, Naiad_50, TWAMP_51, Alatin_50, Rasputin_51, Erik_51
- Track 200 : BobbyDazzler_51, Yoncess_50
- Track 201 : Hiro_51, Jester_50, Harlequin_50, Bryce_50, Alpacados_50
- Track 202 : Takoda_51
- Track 203 : Partridge_50, Dinger_50
- Track 204 : Bonanza_52, Yogi_51
- Track 205 : RER2_44, Krishelle_51
- Track 206 : RGL3_45
- Track 207 : Shagrat_101
- Track 208 : Madraxi_99
- Track 209 : Jflix2_97
- Track 210 : Cucurbita_135, Engineer_136
- Track 211 : Bachita_137
- Track 212 : Culver_133, Norvs_132
- Track 213 : Aphelion_133, Abscondus_133, Toniann_134, Smoothie_135, Miskis_133, Dusty_130
- Track 214 : ClubL_134
- Track 215 : WilliamBoone_132
- Track 216 : Lozinak_134
- Track 217 : PhinkBoden_133
- Track 218 : OneUp_118
- Track 219 : BrutonGaster_108
- Track 220 : SteveFrench_16
- Track 221 : CherryonLim_2
- Track 222 : Vine_3
- Track 223 : JonJames_144, Yvonnetastic_141
- Track 224 : Keelan_108

- Track 225 : GMA6_50
- Track 226 : Stormageddon_2, RedWattleHog_2
- Track 227 : FireRed_21, Porky_21, PhatBacter_21
- Track 228 : YassJohnny_22, Teaspoon_22, Murica_20, Bruin_21, Bask21_21, Harella_20, Emmina_22, HufflyPuff_20, Phaux_20, BigBubba_22, Nala_21, Pumpkin_23, xkcd_22, Hopey_23, Stank_24, Tuco_22, 244_23, Manda_22
- Track 229 : JuicyJay_127, NihilNomen_132, Bombitas_118, Beem_132
- Track 230 : Redno2_122, Kalah2_121, DmpstrDiver_130, Constella_120, Yeet_122, Ejimix_124, Halley_132, Thibault_112, Pound_119, Dallas_131
- Track 231 : Lucky2013_123, LittleE_131, Porcelain_126
- Track 232 : Squint_125, KashFlow_124, MiaZeal_127
- Track 233 : Omega_138
- Track 234 : BAKA_130, Hughesyang_130, Dove_123, HokkenD_120, Duke13_125, Schatzie_126, Odette_132, ThreeRngTarjay_126, Minerva_129, Klein_127, Wanda_129, Phoebus_131, EricMillard_122, Zelink_125, Optimus_121
- Track 235 : Ariel_128, Courthouse_123, Superphikiman_125
- Track 236 : Hannaconda_119
- Track 237 : Bobby_122
- Track 238 : Eponine_78, Taquito_75, Wintermute_76
- Track 239 : Malthus_77, Chancellor_76, JF1_76, SamScheppers_75, Slarp_76, Y2_73, Juliette_78, Y10_73
- Track 240 : Patt_72, MissDaisy_73, Reptar3000_73
- Track 241 : Cheetobro_76, OmniCritical_76
- Track 242 : Ruthiejr_77
- Track 243 : Fionnbharth_76, Mitti_76
- Track 244 : Aminay_72
- Track 245 : Boilgate_68
- Track 246 : FoulBall_9, Idergollasper_9, SchoolBus_9, Familton_10, JangDynasty_9, Blessica_9, Catdawg_9, TelAviv_9
- Track 247 : Zakhe101_11, Winget_10, Corndog_11, Wildflower_10, Firecracker_10, YungJamal_11, Bora_10, Smooch_11
- Track 248 : Mori_10, Shida_10, Alkhayr_10, Murai_10, Vorrps_10, NiebruSaylor_10
- Track 249 : Schuy_10
- Track 250 : MadKillah_10
- Track 251 : Ashwin_11
- Track 252 : Ryadel_12
- Track 253 : Krili_10
- Track 254 : Nebkiss_87, Gaia_88
- Track 255 : REQ2_71
- Track 256 : TPA4_77

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

The start number called the most often in the published annotations is 31, it was called in 240 of the 896 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_62, AbbysRanger_56, Abdiel_58, Achebe_55, Aglet_65, AgronaGT15_63, Albee_58, Alberto7_59, Annyong_58, Arturo_56, AugsMagnumOpus_67, AvatarAhPeg_55, Avle17_58, B1_54, Baby16_58,

BabyRay_61, Backyardigan_54, Badger_55, BangNhom_58, Bartimeaus_58, Beauxregard13_64, BellusTerra_59, Blackmoor_58, BlueBird_63, Bombshell_58, BreSam8_64, Broseidon_58, Bruiser_57, BubbleTrouble_57, Bugatti_61, Bumblebee11_55, Burger_56, BuzzBuzz_61, Bxz2_59, Caelakin_58, Camperdownii_56, Caviar_60, CentreCat_58, Cerulean_59, ChampagnePapi_60, Chaph_58, Chupacabra_57, Cici_56, Cindaradix_53, Cintron_57, Citius_58, Clarenza_57, Cocoaberry_58, Colbster_63, Commander_58, Connomayer_58, Cullens_64, D29_59, DBQu4n_63, Daishi_63, Datway_56, Deano_57, Dhanush_58, Dieselweasel_65, DirtyDunning_57, Drake94_57, Druantia_58, Eagle_58, Eaglepride_60, Eapen_58, Edison31_55, EpicPhail_65, Eris_57, Eros_58, Eurydice_59, Farber_64, Fernando_64, Florean_58, Flux_58, Fred313_60, Funston_57, GMA6_50, Gadost_58, Gemma_63, GingkoMaracino_64, Giroux_61, Goose_59, Grif_64, Groupthink_65, GtownJaz_64, HamSlice_56, Happiness_57, HashRod_65, HaveUMetTed_65, Heathen_61, HelDan_61, Heliosoles_63, Hercules11_64, Holli_57, Hookmount_60, Houdini22_58, ICleared_58, Iceman_58, Idleandcovert_61, Iracema64_59, Isca_60, JF2_59, JF4_59, JHC117_62, Jaykayelowell_56, JeppNRM_65, JetBlade_58, JoongJeon_57, KFPoly_57, Kalb97_65, Kalnoky_65, Kampy_57, Katalie136_56, Kimona_56, Kingmustik0402_58, KittenMittens_56, Koreni_57, Kratak_57, Kremtemulon_55, Kristoff_58, Kyee_58, LHTSCC_60, Lambert1_60, LappelDuVide_56, LarryKay_64, Lemur_58, LeoAvram_57, LittleB_58, LittleGuy_58, LochMonster_59, Lorenzo_58, Louie6_63, LugYA_67, Lunsford_58, MA5_61, MK4_61, Mainiac_64, Manu_64, MarQuardt_64, Margo_60, Marius_65, Maxo_59, Mazhar510_58, Medusa_58, MeeZee_58, Melvin_60, Millski_57, Miramae_55, Misomonster_65, MoneyMay_63, Morpher26_56, Morrow_59, MuchMore_67, Mundrea_56, Nebs_59, Nemo27_58, Noella_60, Noelle_57, Norbert_58, NorthStar_57, NotAPhaseMom_58, Nyxis_58, OKCentral2016_58, OKaNui_58, Obama12_59, Ohfah_59, OlanP_63, Ollie_64, PGHhamlin_66, Palestino_57, Panamaxus_58, Pawn_64, PeaceMeal1_57, Peaches_57, Penny1_65, Perplexer_56, PeterPeter_58, PetiteSangsue_56, Phacado_58, Phantastic_62, Felipe_59, Phighter1804_58, PhishRPhriends_62, Phoebe_65, Phontbonne_58, Phoxy_64, Phranny_65, Pipcraft_56, Pistachio_62, Pocahontas_60, Polymorphads_59, Pomar16_62, Poompha_57, Popcicle_60, Pumbaa_58, Puppy_62, PurpleHaze_64, QuinnKiro_59, Reba_64, Rebeuca_59, Relief_57, ResDef_60, RhynO_59, Rockstar_59, Romney_57, Roosevelt_57, Ruin_58, Sabertooth_58, Sabinator_63, SaturnRing_61, Scamp_58, Scout_61, Severus_57, Shaka_57, SheldonCooper_59, Shygu2_56, Skipitt_57, SoilDragon_64, Soshari_66, Sparxx_59, Spike509_64, Spino_57, Stasia_56, StepMih_63, Stink_52, TNguyen7_62, Taquarus_58, Texage_59, Thanksgivukkah_57, TinaFeyge_57, Tinybot_57, TiroTheta9_58, Todacoro_60, Topanga_56, Trike_56, TroyPia_59, Twister_57, TygerBlood_58, Ulysses_57, Veracruz_59, Vix_62, WalterMcMickey_57, Wander_58, Watson_63, Wilbur_58, Wile_56, Wizard007_58, Wooldri_66, Xena_55, YoSam321_58, Zetzy_63,

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

- Anon_69, Anubis_67, D32_62, DaHudson_63, Duplo_63, Grub_64, Grum1_64, JenCasNa_65, Jobu08_62, KADY_64, Kerberos_63, LBerry_65, Lilith_64, MadMarie_64, Malinsilva_66, Marie_62, Maverick_58, Methuselah_59, Microwolf_62, Naji_63, Nedarya_66, Oofda_70, P28Green_65, Pembroke_64, PotatoSplit_65, Rummer_63, Sabia_64, Snickers_63, SoYo_64, Stagni_64, StarStuff_63, Taurus_65, Tiffany_63, Tomathan_63,

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

• 20ES_65, 244_23, 40AC_62, A6_53, AFIS_56, AN3_65, AN9_64, ANI8_64, AbbyPaige_64, Abbysshoes_62, Abrogate_590, Abscondus_133, Acme_61, Acolyte_56, Adahisdi_60, Adzzy_64, Aeneas_63, Agaliana_55, Agape74_64, AgentM_58, Airmid_59, Ajay_60, Alatin_50, Aliter_64, Alkhayr_10, Alma_62, Alone3_65, Alpacados_50, Alsfro_64, Altman_62, Alvin_58, Aminay_72, Anaysia_70, Aneem_62, Anglerfish_60, AnnaL29_63, Anselm_63, Anthony_64, Aphelion_133, AppleCloud_48, Applejack_56, Aragog_58, Arcanine_62, ArcherNM_56, Archetta_58, Ariel_128, Arissanae_62, Arlo_58, Artemis2UCLA_64, Ashballer_62, Ashwin_11, Astro_64, Atkinbua_63, BABullseye_56, BAKA_130, BK1_53, BPBiabs31_61, BabyBack_58, Bachita_137, Bachome_63, BaconJack_65, Bactobuster_60, Baehexic_61, Barriga_61, Bask21_21, Battleship_72, Beatrix_59, Beem_132, Beemo_64, BeesKnees_62, Belenaria_51, Benedict_62, BengiVuitton_63, Benvolio_59, Bethlehem_59, Bexan_57, BiancaTri92_62, Big3_58, BigBubba_22, BigMau_62, BigPaolini_58, Bigfoot_53, BillKnuckles_57, Bircsak_59, Blessica_9, Blinn1_66, BluSpix_57, Blue7_65, Blue_58, Bluefalcon_56, Bob3_59, BobSwaget_57, BobbyDazzler_51, Bobby_122, BogosyJay_62, Boilgate_68, Bombitas_118, Bonamassa_56, Bonanza_52, Bones_59, Boohoo_70, Bora_10, Bowtie_62, Bradshaw_51, Briton15_64, Bruin_21, Bruns_58, BrutonGaster_108, Bryce_50, Bud_60, Buggy_64, Burton_60, Buttons_57, Bxb1_54, C3_58, CRB1_65, CactusRose_58, Candra_61, Carlyle_59, Catdawg_9, Centaur_63, Chadwick_61, Chanagan_55, Chancellor_76, Changeling_61, Chargerpower_60, Charm_61, Chartreuse_60, Che12_63, Cheetobro_76, CherryonLim_2, ChipMunk_64, Ciao_58, CloudWang3_63, CloudWang3_65, ClubL_134, Conceptll_62, Conquerage_62, Conspiracy_59, Constella_120, Coog_56, Cookiedough_63, Corndog_11, Corvo_60, CosmicSans_51, Courthouse_123, Crispicous1_57, Crucio_62, Cuco_58, Cucurbita_135, Cueyllyss_60, Culver_133, DD5_58, DaVinci_61, Dallas_131, Dalmatian_63, Danforth_64, Darrell_65, DarthPhader_59, DekHockey33_71, Deloris_63, Dexes_59, Dignity_64, Dinger_50, Discoknowium_57, Dixon_63, DmpstrDiver_130, Doom_58, Dorothea_60, Dove_123, DrFeelGood_57, Drake55_64, DreamCatcher_63, DreamTeam1_61, Dreamboat_60, DroogsArmy_56, Dublin_58, DudeLittle_61, Duke13_125, Dulcie_61, Dussy_61, Dusty_130, Dynamix_61, EZMoney23_58, EagleEye_65, Ebony_61, Echild_62, Edtherson_59, Eidsmoe_62, Ejimix_124, EITiger69_61, Elephantoon_62, Emmina_22, Engineer_136, Eponine_78, Epsocamisio_67, Equemioh13_62, EricB_62, EricMillard_122, Erik_51, Espica_51, Espresso_57, Et2Brutus_60, Euphoria_57, EvilGenius_63, Expelliarmus_61, Eyeball_61, Fajezeel_60, Fameo_62, Familton_10, Fascinus_55, Fayely_62, Fenn_62, Fibonacci_61, Fionnbharth_76, FireRed_21, Firecracker_10, FiringLine_62, First_0064, Flare16_62, Flaverint_62, ForGetIt_59, Forsytheast_58, FoulBall_9, Francis47_58, Froghopper_56, Fushigi_56, GageAP_60, Gaia_88, Gail_63, Gandalf20_62, Garak_65, GaugeLDP_59, George_55, Georgie2_63, Ghoulyboy_60, Gilberta_62, Gladiator_61, Gollum_51, Gompeii16_59, Graduation_63, GrecoEtereo_59, GreedyLawyer_61, Greg_60, Groundhog_63, Gruunaga_64, Gwendoluna_62, Gyzlar_55, HINdeR_55, Halley_132, Hammer_64, HanShotFirst_61, Hannaconda_119, Harella_20, Harlequin_50, HarryHoudini_63, HarryOW_59, Heffalump_61, Helmet_65, Herbertwm_59, Hermia_57, HermioneGrange_61, Hexamo_64, Hiro_51, HokkenD_120, Homines_51, Hoot_58, Hope4ever_61, Hopey_23, HortumSL17_64, HufflyPuff_20, Hughesyang_130, HuhtaEnerson15_57, Hutc2_60, ILeeKay_62, Ichabod_63, Idergollasper_9, IgnatiusPatJac_59, Indra_67, Insomnia_60, IronMan_61, Isiphiwo_61, Iwokeuplikedis_64, JC27_62, JF1_76, JSwag_69, Jaan_62, Jabiru_60, Jabith_62, JackSparrow_62, JangDynasty_9, Jasper_60, Jeeves_65, Jeffabunny_64, Jerm2_61, Jerm_64, Jester_50, JewelBug_63, Jflix2_97, JonJames_144, Jordennis_62, Jorgensen_60, Joselito_62, JoshKayV_64, Journey13_56, Jovo_59, Jsquared_62,

JuicyJay_127, JuliaChild_61, Juliette_78, KBG_60, KSSJEB_59, Kalah2_121, Kalpine_60, Kanely_61, KashFlow_124, KatherineG_70, Kazan_64, Keelan_108, Kenmech_64, Keziacharles14_63, Killigrew_59, KingCyrus_63, Kipper29_63, Klein_127, Koduck_62, Koko_64, Koko_66, Krili_10, Krishelle_51, Kugel_59, KyMonks1A_62, Kykar_60, L5_59, LadyBird_67, Lamina13_63, Landor_61, Larenn_60, LastResort_68, Leogania_62, Lesedi_55, Lev2_59, Leviathan_64, Licorice_61, LilBib_59, LilTurb_63, Lillie_51, LittleCherry_57, LittleE_131, Lockley_57, Lokk_58, LoneWolf_64, Looper_69, Lopton_59, Loser_63, Lozinak_134, Luchador_64, Lucivia_62, Lucky2013_123, LuckySocke_64, Lucyedi_64, MPlant7149_59, MaCh_61, Mabel_61, MadKillah_10, Madraxi_99, Magnar_57, Magnito_59, Makemake_61, Malec_61, Malthus_77, Maminiaina_62, Manatee_60, Manda_22, Marcell_56, Marge_58, Maroc7_57, Marsha_59, MaryBeth_58, MarysWell_58, McFly_63, McGuire_61, MetalQZJ_57, MiaZeal_127, Micasa_56, Michley_62, MiculUcigas_62, Midas2_56, Miko_58, Milcery_57, MinecraftSteve_70, Minerva_129, Miskis_133, MissDaisy_73, MissWhite_60, Mitti_76, Molly_62, Monet_63, Moose_58, Mori_10, MrGordo_59, Mryolo_56, Mulciber_60, Mule_58, Munch_61, Murai_10, Murica_20, Museum_61, MyraDee_58, Myxus_63, NEHalo_57, NaSiaTalie_62, Naca_59, Naiad_50, Naira_62, Nala_21, Nancinator_51, Natosaleda_50, NearlyHeadless_64, Nebkiss_87, Nebulosus_68, Neeharika16_60, Nerujay_62, Newrala_63, Nhonho_58, NicoleTera_60, NiebruSaylor_10, NihilNomen_132, Niza_61, Norvs_132, Norz_61, NothingSpecial_59, Odette_132, Odin_61, Ohno789_60, Omega_138, OmniCritical_76, OneUp_118, Oogway_59, Optimus_121, Orange_60, PP_61, PSullivan_58, PacerPaul_59, PainterBoy_64, Papez_62, Paphu_59, Paraselene_57, Pari_62, Parliament_61, Partridge_50, PascalRango_59, Patt_72, PattyP_62, Pelly_60, Perseus_60, Petersenfast_59, Peterson_63, Petp2012_61, Petruchio_58, PetterN_64, Ph8s_63, Phaded_61, Phaeder_63, PhailMary_50, PhatBacter_21, Phaux_20, PherrisBueller_58, Phillis_61, PhinkBoden_133, Phlei_52, Phlorence_57, Phoebus_131, Phonnegut_64, Phrankenstein_51, Phrappuccino_127, PhrostyMug_60, PickleBack_59, PinkPlastic_60, Pinto_60, Pippin_60, Piro94_62, Pita2_62, Pmask_62, Porcelain_126, Porky_21, Pound_119, Power_61, Priamo_65, Priya_62, Pukovnik_60, Pumpkin_23, QTRlifeCrisis_62, QueenB2_61, QueenBeesly_62, REQ2_71, RER2_44, RGL3_45, Rachaly_60, Rahalelujah_63, Rajelicia_61, Rasputin_51, ReMo_68, RedRock_63, RedWattleHog_2, Redno2_122, Refuge_59, Remus_70, Reptar3000_73, Retro23_63, RexFury_50, Rhodalysa_51, Rhynn_58, RidgeCB_59, Rifter_64, Ringer_59, Roary_65, Rohr_61, Roksolana_65, Rosalind_68, RosePharie_70, Rubeus_59, Rufus_61, Ruotula_62, Rutherferd_62, Ruthiejr_77, Ryadel_12, STLscum_62, Sagefire_62, Saintus_59, Salz_60, SamScheppers_75, SarFire_56, Schatzie_126, Scherzo_64, SchoolBus_9, Schuy_10, Scorpia_63, Scowl_60, Seabiscuit_63, Seanderson_59, SemperFi_63, Serenity_62, Settecandela_127, Shagrat_101, Sham4_61, ShayRa_70, SheaKeira_60, Sheen_60, Shida_10, Shuman_51, Sibs6_62, SkiPole_64, Slagathor_62, Slarp_76, Smairt_63, Smeadley_64, Smeagan_65, Smeagol_62, SmellyB_63, Smooch_11, Smoothie_135, SnapTap_62, Snape_61, Snazzy_58, Solon_57, SororFago_62, Soups_70, SpikeBT_58, Squee_60, Squint_125, StCroix_50, Stank_24, Steamy_58, Stephig9_63, SteveFrench_16, StewieG_56, Stormageddon_2, StrongArm_58, Strosahl_70, Sumter_55, Sunshine924_61, SuperAwesome_63, SuperCallie99_60, Superchunk_61, Superphikiman_125, Swann_51, SweetiePie_62, Swirley_59, SwissCheese_60, Switzer_60, Switzerland_69, Swole_60, SydNat_60, TPA4_77, TWAMP_51, Takoda_51, Taquito_75, Target_61, TarsusIV_59, Tarynearal_55, Tasp14_63, Teaspoon_22, TelAviv_9, Teodoridan_57, Theia_57, TheloniousMonk_60, Thibault_112, Thor_56, ThreeRngTarjay_126, Tiger_58, Timothy_61, Timshel_57, TinyTimmy_59,

TipsytheTRex_59, Toaka_64, ToneTone_61, Toniann_134, Topgun_58, Tote_56, Traft412_62, Treddle_61, Tripl3t_62, Trixie_60, Trooper_63, Trouble_61, Tubs_63, Tucker_64, Tuco_22, Turbido_63, Turj99_57, TwoPeat_60, U2_58, Ugenie5_60, UhSalsa_51, UnionJack_60, Updawg_63, VA6_63, VC3_64, Vanisoa_63, Vine_3, Violet_58, VohminGhazi_63, Vorrrps_10, Waits_70, Wanda_129, Watermelon_60, Whabigail7_63, Wheeler_59, WideWale_63, Wiks_63, Wildflower_10, Wilkins_58, WilliamBoone_132, Winget_10, Wintermute_76, WunderPhul_64, XianYue_60, Y10_73, Y2_73, YassJohnny_22, Yecey3_64, Yeet_122, Yogi_51, Yokurt_63, Yoncess_50, YungJamal_11, Yvonnetastic_141, Zaka_64, Zakhe101_11, Zeeculate_57, Zelink_125, Zephyr_61, Zeuska_59, Zimmer_59, Zolita_59, Zulu_65, xkcd_22,

Summary by start number:

Start 17:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Maverick_58 (A4),

Start 20:

- Found in 16 of 963 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 896
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Alsfro_64 (A1), Frogopper_56 (A1),

Start 21:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: STLscum_62 (A1),

Start 23:

- Found in 30 of 963 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 3.3% of time when present
- Phage (with cluster) where this start called: Jerm_64 (A2),

Start 25:

- Found in 66 of 963 (6.9%) of genes in pham
- Manual Annotations of this start: 23 of 896
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Anubis_67 (A3), DaHudson_63 (A3), Grub_64 (A3), Grum1_64 (A3), JenCasNa_65 (A3), Jobu08_62 (A3), KADY_64 (A3), LBerry_65 (A3), Lilith_64 (A3), MadMarie_64 (A3), Malinsilva_66 (A3), Marie_62 (A3), Methuselah_59 (A3), Microwolf_62 (A3), P28Green_65 (A3), Pembroke_64 (A3), PotatoSplit_65 (A3), Rummer_63 (A3), Sabia_64 (A3), Snickers_63 (A3), SoYo_64 (A3), Stagni_64 (A3), Taurus_65 (A3), Tiffany_63 (A3),

Start 30:

- Found in 185 of 963 (19.2%) of genes in pham
- Manual Annotations of this start: 168 of 896
- Called 96.2% of time when present

- Phage (with cluster) where this start called: A6_53 (A1), AFIS_56 (A1), Abbyshoes_62 (A1), Abrogate_590 (A1), Acme_61 (A1), Adahisdi_60 (A1), Aeneas_63 (A1), Agaliana_55 (A1), Ajay_60 (A1), Altman_62 (A1), Alvin_58 (A1), Applejack_56 (A1), Arlo_58 (A1), Ashballer_62 (A1), Atkinbua_63 (A1), BK1_53 (A1), BPBiabs31_61 (A1), BaconJack_65 (A1), Barriga_61 (A1), Beatrix_59 (A1), BeesKnees_62 (A1), Bethlehem_59 (A1), Bexan_57 (A1), Big3_58 (A1), BigMau_62 (A1), BigPaolini_58 (A1), Bigfoot_53 (A1), BillKnuckles_57 (A1), Bircsak_59 (A1), Blue_58 (A1), Bob3_59 (A1), Bones_59 (A1), Briton15_64 (A1), Bruns_58 (A1), Burton_60 (A1), Buttons_57 (A1), Bxb1_54 (A1), Carlyle_59 (A1), Chanagan_55 (A1), Ciao_58 (A1), Conceptll_62 (A1), Corvo_60 (A1), Crispicous1_57 (A1), Cueyllyss_60 (A1), DD5_58 (A1), Dexes_59 (A1), Doom_58 (A1), DrFeelGood_57 (A1), DreamCatcher_63 (A1), Dreamboat_60 (A1), Dulcie_61 (A1), Dussy_61 (A1), Dynamix_61 (A1), Edtherson_59 (A1), Espresso_57 (A1), Euphoria_57 (A1), Eyeball_61 (A1), Fajezeel_60 (A1), Fascinus_55 (A1), Fenn_62 (A1), Forsytheast_58 (A1), Francis47_58 (A1), Fushigi_56 (A1), GageAP_60 (A1), Gandalf20_62 (A1), Gompeii16_59 (A1), Graduation_63 (A1), GrecoEtereo_59 (A1), Greg_60 (A1), Gyzlar_55 (A1), HanShotFirst_61 (A1), HarryOW_59 (A1), Hermia_57 (A1), HermioneGrange_61 (A1), Homines_51 (A1), Hope4ever_61 (A1), Ichabod_63 (A1), JC27_62 (A1), JackSparrow_62 (A1), Jasper_60 (A1), Jerm2_61 (A1), Jorgensen_60 (A1), JuliaChild_61 (A1), Kanely_61 (A1), Kenmech_64 (A1), Killigrew_59 (A1), Kugel_59 (A1), Kykar_60 (A1), Lamina13_63 (A1), Lesedi_55 (A1), Licorice_61 (A1), Lockley_57 (A1), Lopton_59 (A1), MPlant7149_59 (A1), Magnar_57 (A1), Magnito_59 (A1), Makemake_61 (A1), Marcell_56 (A1), Marge_58 (A1), Maroc7_57 (A1), Marsha_59 (A1), MaryBeth_58 (A1), McGuire_61 (A1), MetalQZJ_57 (A1), Michley_62 (A1), Molly_62 (A1), Moose_58 (A1), MrGordo_59 (A1), Mryolo_56 (A1), Mule_58 (A1), Museum_61 (A1), NEHalo_57 (A1), Naira_62 (A1), Nerujay_62 (A1), Nhonho_58 (A1), Niza_61 (A1), Norz_61 (A1), Ohno789_60 (A1), Oogway_59 (A1), PSullivan_58 (A1), PacerPaul_59 (A1), Papez_62 (A1), Paphu_59 (A1), Paraselene_57 (A1), Pari_62 (A1), Parliament_61 (A1), PascalRango_59 (A1), PattyP_62 (A1), Pelly_60 (A1), Perseus_60 (A1), Peterson_63 (A1), Petp2012_61 (A1), Petruchio_58 (A1), PherrisBueller_58 (A1), PhrostyMug_60 (A1), PinkPlastic_60 (A1), Pinto_60 (A1), Pippin_60 (A1), Pita2_62 (A1), Rajelicia_61 (A1), RidgeCB_59 (A1), Ringer_59 (A1), Rohr_61 (A1), Rubeus_59 (A1), Rufus_61 (A1), Ruotula_62 (A1), Sagefire_62 (A1), SarFire_56 (A1), Scowl_60 (A1), Seabiscuit_63 (A1), Seanderson_59 (A1), Sibs6_62 (A1), SkiPole_64 (A1), Smairt_63 (A1), Snazzy_58 (A1), Solon_57 (A1), SpikeBT_58 (A1), Squee_60 (A1), StewieG_56 (A1), StrongArm_58 (A1), Sumter_55 (A1), SwissCheese_60 (A1), Switzer_60 (A1), Swole_60 (A1), Target_61 (A1), Tasp14_63 (A1), Thor_56 (A1), Tote_56 (A1), Traft412_62 (A1), Trip13t_62 (A1), Trouble_61 (A1), TwoPeat_60 (A1), U2_58 (A1), Watermelon_60 (A1), Wheeler_59 (A1), Zeeculate_57 (A1), Zephyr_61 (A1), Zeuska_59 (A1),

Start 31:

- Found in 285 of 963 (29.6%) of genes in pham
- Manual Annotations of this start: 240 of 896
- Called 88.1% of time when present
- Phage (with cluster) where this start called: ACFishhook_62 (A3), AbbysRanger_56 (A4), Abdiel_58 (A4), Achebe_55 (A4), Aglet_65 (A3), AgronaGT15_63 (A3), Albee_58 (A4), Alberto7_59 (A4), Annyong_58 (A4), Arturo_56 (A4), AugsMagnumOpus_67 (A3), AvatarAhPeg_55 (A4), Avle17_58 (A4), B1_54 (A3), Baby16_58 (A4), BabyRay_61 (A3), Backyardigan_54 (A4), Badger_55 (A4), BangNhom_58 (A4), Bartimeaus_58 (A4), Beauxregard13_64 (A3), BellusTerra_59 (A4), Blackmoor_58 (A4), BlueBird_63 (A3), Bombshell_58 (A4), BreSam8_64 (A3),

Broseidon_58 (A4), Bruiser_57 (A4), BubbleTrouble_57 (A4), Bugatti_61 (A3), Bumblebee11_55 (A4), Burger_56 (A4), BuzzBuzz_61 (A3), Bxz2_59 (A3), Caelakin_58 (A4), Camperdownii_56 (A4), Caviar_60 (A3), CentreCat_58 (A4), Cerulean_59 (A4), ChampagnePapi_60 (A4), Chaph_58 (A4), Chupacabra_57 (A10), Cici_56 (A4), Cindaradix_53 (A4), Cintron_57 (A4), Citius_58 (A4), Clarenza_57 (A4), Cocoaberry_58 (A4), Colbster_63 (A3), Commander_58 (A4), Connomayer_58 (A4), Cullens_64 (A3), D29_59 (A2), DBQu4n_63 (A2), Daishi_63 (A3), Datway_56 (A4), Deano_57 (A4), Dhanush_58 (A4), Dieselweasel_65 (A3), DirtyDunning_57 (A4), Drake94_57 (A10), Druantia_58 (A4), Eagle_58 (A4), Eaglepride_60 (A10), Eapen_58 (A4), Edison31_55 (A10), EpicPhail_65 (A3), Eris_57 (A4), Eros_58 (A4), Eurydice_59 (A4), Farber_64 (A3), Fernando_64 (A3), Florean_58 (A4), Flux_58 (A4), Fred313_60 (A3), Funston_57 (A4), GMA6_50 (DQ), Gadost_58 (A4), Gemma_63 (A3), GingkoMaracino_64 (A3), Giroux_61 (A3), Goose_59 (A10), Grif_64 (A3), Groupthink_65 (A3), GtownJaz_64 (A3), HamSlice_56 (A4), Happiness_57 (A4), HashRod_65 (A3), HaveUMetTed_65 (A3), Heathen_61 (A3), HelDan_61 (A3), Heliosoles_63 (A3), Hercules11_64 (A3), Holli_57 (A4), Hookmount_60 (A3), Houdini22_58 (A4), ICleared_58 (A4), Iceman_58 (A4), Idleandcovert_61 (A3), Iracema64_59 (A4), Isca_60 (A3), JF2_59 (A3), JF4_59 (A3), JHC117_62 (A3), Jaykayelowell_56 (A4), JeppNRM_65 (A3), JetBlade_58 (A4), JoongJeon_57 (A4), KFPoly_57 (A4), Kalb97_65 (A3), Kalnoky_65 (A3), Kampy_57 (A4), Katalie136_56 (A4), Kimona_56 (A19), Kingmustik0402_58 (A4), KittenMittens_56 (A10), Koreni_57 (A4), Kratark_57 (A4), Kremtemulon_55 (A4), Kristoff_58 (A10), Kyee_58 (A4), LHTSCC_60 (A4), Lambert1_60 (A3), LappelDuVide_56 (A4), LarryKay_64 (A3), Lemur_58 (A4), LeoAvram_57 (A4), LittleB_58 (A4), LittleGuy_58 (A4), LochMonster_59 (A4), Lorenzo_58 (A4), Louie6_63 (A3), LugYA_67 (A3), Lunsford_58 (A4), MA5_61 (A3), MK4_61 (A3), Mainiac_64 (A3), Manu_64 (A3), MarQuardt_64 (A3), Margo_60 (A3), Marius_65 (A3), Maxo_59 (A4), Mazhar510_58 (A4), Medusa_58 (A4), MeeZee_58 (A4), Melvin_60 (A4), Millski_57 (A4), Miramae_55 (A4), Misomonster_65 (A3), MoneyMay_63 (A3), Morpher26_56 (A4), Morrow_59 (A4), MuchMore_67 (A3), Mundrea_56 (A4), Nebs_59 (A4), Nemo27_58 (A4), Noella_60 (A3), Noelle_57 (A4), Norbert_58 (A3), NorthStar_57 (A4), NotAPhaseMom_58 (A4), Nyxis_58 (A4), OKCentral2016_58 (A10), OKaNui_58 (A4), Obama12_59 (A4), Ohfah_59 (A4), OlanP_63 (A3), Ollie_64 (A3), PGHhamlin_66 (A3), Palestino_57 (A4), Panamaxus_58 (A3), Pawn_64 (A3), PeaceMeal1_57 (A10), Peaches_57 (A4), Penny1_65 (A3), Perplexer_56 (A4), PeterPeter_58 (A4), PetiteSangsue_56 (A4), Phacado_58 (A4), Phantastic_62 (A3), Felipe_59 (A4), Phighter1804_58 (A4), PhishRPhriends_62 (A3), Phoebe_65 (A3), Phontbonne_58 (A4), Phoxy_64 (A3), Phranny_65 (A3), Pipcraft_56 (A4), Pistachio_62 (A3), Pocahontas_60 (A3), Polymorphads_59 (A4), Pomar16_62 (A2), Poompha_57 (A10), Popcicle_60 (A3), Pumbaa_58 (A4), Puppy_62 (A3), PurpleHaze_64 (A3), QuinnKiro_59 (A3), Reba_64 (A3), Rebeuca_59 (A10), Relief_57 (A4), ResDef_60 (A3), RhynO_59 (A10), Rockstar_59 (A3), Romney_57 (A4), Roosevelt_57 (A4), Ruin_58 (A4), Sabertooth_58 (A4), Sabinator_63 (A3), SaturnRing_61 (A3), Scamp_58 (A4), Scout_61 (A3), Severus_57 (A10), Shaka_57 (A4), SheldonCooper_59 (A4), Shygu2_56 (A4), Skipitt_57 (A4), SoilDragon_64 (A3), Soshari_66 (A3), Sparxx_59 (A4), Spike509_64 (A3), Spino_57 (A4), Stasia_56 (A4), StepMih_63 (A3), Stink_52 (A4), TNguyen7_62 (A3), Taquarus_58 (A4), Texage_59 (A3), Thanksgivukkah_57 (A4), TinaFeyge_57 (A4), Tinybot_57 (A4), TiroTheta9_58 (A4), Todacoro_60 (A3), Topanga_56 (A10), Trike_56 (A10), TroyPia_59 (A4), Twister_57 (A10), TygerBlood_58 (A4), Ulysses_57 (A4), Veracruz_59 (A3), Vix_62 (A3), WalterMcMickey_57 (A10), Wander_58 (A4), Watson_63 (A3), Wilbur_58 (A4), Wile_56 (A4), Wizard007_58 (A4), Wooldri_66 (A3), Xena_55 (A4), YoSam321_58

(A4), Zetzy_63 (A3),

Start 32:

- Found in 30 of 963 (3.1%) of genes in pham
- Manual Annotations of this start: 14 of 896
- Called 53.3% of time when present
- Phage (with cluster) where this start called: Aneem_62 (A11), Bowtie_62 (A11), Bud_60 (A11), Et2Brutus_60 (A11), Fibonacci_61 (A11), Flaverint_62 (A11), Hutc2_60 (A11), Insomnia_60 (A11), Jabith_62 (A11), Joselito_62 (A11), Jsquared_62 (A2), L5_59 (A2), Lucivia_62 (A11), Munch_61 (A11), Timothy_61 (A11), TinyTimmy_59 (A11),

Start 33:

- Found in 22 of 963 (2.3%) of genes in pham
- Manual Annotations of this start: 9 of 896
- Called 40.9% of time when present
- Phage (with cluster) where this start called: Boohoo_70 (A15), DekHockey33_71 (A15), HINdeR_55 (A7), Journey13_56 (A2), KatherineG_70 (A15), Looper_69 (A15), Rosalind_68 (A15), Soups_70 (A15), Waits_70 (A15),

Start 34:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chargerpower_60 (A),

Start 35:

- Found in 41 of 963 (4.3%) of genes in pham
- Manual Annotations of this start: 38 of 896
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Ariel_128 (J), BAKA_130 (J), Beem_132 (J), Bobby_122 (J), Bombitas_118 (J), Constella_120 (J), Courthouse_123 (J), Dallas_131 (J), DmpstrDiver_130 (J), Dove_123 (J), Duke13_125 (J), Ejimix_124 (J), EricMillard_122 (J), Halley_132 (J), HokkenD_120 (J), Hughesyang_130 (J), JuicyJay_127 (J), Kalah2_121 (J), KashFlow_124 (J), Klein_127 (J), LittleE_131 (J), Lucky2013_123 (J), MiaZeal_127 (J), Minerva_129 (J), NihilNomen_132 (J), Odette_132 (J), Omega_138 (J), Optimus_121 (J), Phoebus_131 (J), Porcelain_126 (J), Pound_119 (J), Redno2_122 (J), Schatzie_126 (J), Squint_125 (J), Superphikiman_125 (J), Thibault_112 (J), ThreeRngTarjay_126 (J), Wanda_129 (J), Yeet_122 (J), Zelink_125 (J),

Start 36:

- Found in 3 of 963 (0.3%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Odin_61 (A2), Ph8s_63 (A2), Superchunk_61 (A2),

Start 38:

- Found in 58 of 963 (6.0%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 6.9% of time when present

- Phage (with cluster) where this start called: Phlei_52 (A13), Pukovnik_60 (A2), SweetiePie_62 (A2), Turbido_63 (A2),

Start 39:

- Found in 5 of 963 (0.5%) of genes in pham
- Manual Annotations of this start: 5 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3_65 (BS), DARTHPhader_59 (A12), LuckySocke_64 (BS), Refuge_59 (A12), Steamy_58 (A12),

Start 40:

- Found in 158 of 963 (16.4%) of genes in pham
- Manual Annotations of this start: 121 of 896
- Called 84.2% of time when present
- Phage (with cluster) where this start called: 20ES_65 (A2), 40AC_62 (A17), AN3_65 (A2), AbbyPaige_64 (A2), Agape74_64 (A2), Aliter_64 (A9), Alma_62 (A9), AnnaL29_63 (A2), Anselm_63 (A2), ArcherNM_56 (A2), Arissanae_62 (A9), BABullseye_56 (A6), Bactobuster_60 (A2), Baehexic_61 (A2), Beemo_64 (A9), BengiVuitton_63 (A2), Benvolio_59 (A2), BiancaTri92_62 (A2), Blinn1_66 (A6), BobSwaget_57 (A2), BogosyJay_62 (A9), Bugsy_64 (A2), CRB1_65 (A2), Candra_61 (A6), Centaur_63 (A2), Changeling_61 (A2), Charm_61 (A9), ChipMunk_64 (A2), Conquerage_62 (A9), Cookiedough_63 (A6), Crucio_62 (A2), DaVinci_61 (A6), Dalmatian_63 (A2), Darrell_65 (A9), Deloris_63 (A2), Dignity_64 (A2), Dorothea_60 (A6), Drake55_64 (A2), DreamTeam1_61 (A9), DudeLittle_61 (A2), EZMoney23_58 (A2), Echild_62 (A2), Eidsmoe_62 (A9), Elephantoon_62 (A9), Equemioh13_62 (A2), EricB_62 (A6), EvilGenius_63 (A2), Fameo_62 (A2), Fayely_62 (A9), FiringLine_62 (A2), First_0064 (A2), Flare16_62 (A2), Gail_63 (A14), Garak_65 (A6), GaugeLDP_59 (A2), Georgie2_63 (A2), Gladiator_61 (A6), GreedyLawyer_61 (A6), Gruunaga_64 (A6), HarryHoudini_63 (A2), Heffalump_61 (A2), Helmet_65 (A6), Hexamo_64 (A6), HortumSL17_64 (A9), Indra_67 (A6), IronMan_61 (A2), Iwokeuplikedis_64 (A2), Jaan_62 (A2), Jeffabunny_64 (A6), JewelBug_63 (A6), Jordennis_62 (A6), JoshKayV_64 (A2), Kalpine_60 (A2), Kazan_64 (A6), Keziacharles14_63 (A9), KingCyrus_63 (A2), Kipper29_63 (A6), LadyBird_67 (A2), Landor_61 (A2), Larenn_60 (A2), Leogania_62 (A2), Leviathan_64 (A2), LiiTurb_63 (A2), Lokk_58 (A2), LoneWolf_64 (A9), Luchador_64 (A14), Malec_61 (A2), Maminiaina_62 (A9), MiculUcigas_62 (A2), Miko_58 (A2), Myxus_63 (A9), NaSiaTalie_62 (A2), Neeharika16_60 (A6), Newrala_63 (A6), NicoleTera_60 (A2), Phaded_61 (A2), Phaeder_63 (A9), Phonnegut_64 (A9), Piro94_62 (A2), Pmask_62 (A6), Power_61 (A2), Priamo_65 (A6), Priya_62 (A9), QueenB2_61 (A2), QueenBeesly_62 (A2), Rachaly_60 (A2), Rahalelujah_63 (A9), RedRock_63 (A2), Retro23_63 (A2), Rifter_64 (A6), Scherzo_64 (A9), SemperFi_63 (A2), SheaKeira_60 (A9), Smeagan_65 (A2), SnapTap_62 (A2), SororFago_62 (A14), TarsusIV_59 (A2), Toaka_64 (A9), ToneTone_61 (A6), Trixie_60 (A2), Trooper_63 (A2), Tubs_63 (A9), Ugenie5_60 (A9), Updawg_63 (A2), VA6_63 (A2), Vanisoa_63 (A9), VohminGhazi_63 (A6), Whabigail7_63 (A2), WideWale_63 (A2), XianYue_60 (A2), Yecey3_64 (A9), Yokurt_63 (A6), Zimmer_59 (A12),

Start 41:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RosePharie_70 (BF),

Start 42:

- Found in 21 of 963 (2.2%) of genes in pham
- Manual Annotations of this start: 4 of 896
- Called 19.0% of time when present
- Phage (with cluster) where this start called: Cheetobro_76 (K4), Fionnbharth_76 (K4), Mitti_76 (K4), OmniCritical_76 (K4),

Start 43:

- Found in 71 of 963 (7.4%) of genes in pham
- Manual Annotations of this start: 18 of 896
- Called 26.8% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_64 (A6), Blue7_65 (A6), Chartreuse_60 (A6), CloudWang3_65 (A6), Cuco_58 (A5), Hammer_64 (A6), Hoot_58 (A6), Isiphiwo_61 (A6), Koko_66 (A6), McFly_63 (A6), Roksolana_65 (A6), SmellyB_63 (A6), SuperAwesome_63 (A6), SuperCallie99_60 (A6), Tucker_64 (A6), Wiks_63 (A6), WunderPhul_64 (A6), Zaka_64 (A6), Zulu_65 (A6),

Start 44:

- Found in 3 of 963 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Lucyedi_64 (A16),

Start 45:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Herbertwm_59 (A2), SteveFrench_16 (CS2),

Start 47:

- Found in 4 of 963 (0.4%) of genes in pham
- Manual Annotations of this start: 4 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AN9_64 (A2), ANI8_64 (A2), C3_58 (A2), VC3_64 (A2),

Start 49:

- Found in 5 of 963 (0.5%) of genes in pham
- Manual Annotations of this start: 4 of 896
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Acolyte_56 (A2), EagleEye_65 (A16), Loser_63 (A2), PainterBoy_64 (A16),

Start 50:

- Found in 6 of 963 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 896
- Called 83.3% of time when present
- Phage (with cluster) where this start called: MissDaisy_73 (K4), Patt_72 (K4), RedWattleHog_2 (DX), Reptar3000_73 (K4), Stormageddon_2 (DX),

Start 51:

- Found in 28 of 963 (2.9%) of genes in pham

- Manual Annotations of this start: 18 of 896
- Called 64.3% of time when present
- Phage (with cluster) where this start called: Anglerfish_60 (A1), Arcanine_62 (A1), Bachita_137 (CQ1), ClubL_134 (CQ1), ILeeKay_62 (A1), KBG_60 (A1), Keelan_108 (DP), Lozinak_134 (CQ1), Manatee_60 (A1), Monet_63 (A1), Rhynn_58 (A1), Rutherford_62 (A1), Slagathor_62 (A1), TheloniousMonk_60 (A1), Topgun_58 (A1), Treddle_61 (A1), Violet_58 (A1), Wilkins_58 (A1),

Start 52:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JfliX2_97 (CF),

Start 53:

- Found in 1 of 963 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aminay_72 (K7),

Start 54:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PP_61 (A7),

Start 55:

- Found in 1 of 963 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4_77 (singleton),

Start 56:

- Found in 28 of 963 (2.9%) of genes in pham
- Manual Annotations of this start: 25 of 896
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Airmid_59 (A5), Archetta_58 (A5), Benedict_62 (A5), Bluefalcon_56 (A5), CactusRose_58 (A1), Chadwick_61 (A5), Coog_56 (A5), Discoknowium_57 (A5), Dublin_58 (A5), EITiger69_61 (A5), George_55 (A5), Ghoulboy_60 (A5), Jabiru_60 (A5), LittleCherry_57 (A5), MarysWell_58 (A5), Micasa_56 (A5), Midas2_56 (A5), Milcery_57 (A5), Naca_59 (A5), PetterN_64 (A5), Scorpia_63 (A5), Swirley_59 (A5), SydNat_60 (A5), Theia_57 (A5), UnionJack_60 (A5), Zolita_59 (A5),

Start 57:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adzzy_64 (A2), Che12_63 (A2),

Start 59:

- Found in 41 of 963 (4.3%) of genes in pham
- Manual Annotations of this start: 15 of 896

- Called 39.0% of time when present
- Phage (with cluster) where this start called: D32_62 (A2), Duplo_63 (A2), Gilberta_62 (A11), Jeeves_65 (A14), Koduck_62 (A2), MaCh_61 (A11), Mabel_61 (A11), MissWhite_60 (A2), Mulciber_60 (A11), Naji_63 (A2), Orange_60 (A11), Serenity_62 (A2), Sham4_61 (A11), Snape_61 (A11), StarStuff_63 (A2), TipsytheTRex_59 (A2),

Start 60:

- Found in 8 of 963 (0.8%) of genes in pham
- Manual Annotations of this start: 4 of 896
- Called 75.0% of time when present
- Phage (with cluster) where this start called: KSSJEB_59 (A1), KyMonks1A_62 (A1), LilBib_59 (A1), QTRlifeCrisis_62 (A1), Sunshine924_61 (A1), Turj99_57 (A1),

Start 62:

- Found in 44 of 963 (4.6%) of genes in pham
- Manual Annotations of this start: 38 of 896
- Called 93.2% of time when present
- Phage (with cluster) where this start called: 244_23 (E), AgentM_58 (A5), Aragog_58 (A5), Astro_64 (A8), Bask21_21 (E), BigBubba_22 (E), Bonamassa_56 (A5), Bruin_21 (E), Conspiracy_59 (A5), Danforth_64 (A8), Dixon_63 (A8), Emmina_22 (E), Expelliarmus_61 (A8), ForGetIt_59 (A5), Groundhog_63 (A8), Harella_20 (E), Hopey_23 (E), HufflyPuff_20 (E), HuhtaEnerson15_57 (A5), Jovo_59 (A5), Lev2_59 (A5), Manda_22 (E), Murica_20 (E), Nala_21 (E), NearlyHeadless_64 (A8), Phaux_20 (E), Phillis_61 (A8), Phlorence_57 (A5), PickleBack_59 (A5), Pumpkin_23 (E), Roary_65 (A8), Saintus_59 (A8), Smeadley_64 (A8), Stank_24 (E), Stephig9_63 (A8), Tarynearal_55 (A5), Teaspoon_22 (E), Tiger_58 (A5), Tuco_22 (E), YassJohnny_22 (E), xkcd_22 (E),

Start 64:

- Found in 25 of 963 (2.6%) of genes in pham
- Manual Annotations of this start: 18 of 896
- Called 72.0% of time when present
- Phage (with cluster) where this start called: Boilgate_68 (K8), Chancellor_76 (K4), DroogsArmy_56 (A7), Eponine_78 (K4), JF1_76 (K4), Juliette_78 (K4), Malthus_77 (K4), Phrappuccino_127 (AA), Ruthiejr_77 (K4), SamScheppers_75 (K4), Settecandela_127 (AA), Shagrat_101 (CF), Slarp_76 (K4), Taquito_75 (K4), Timshel_57 (A7), Wintermute_76 (K4), Y10_73 (K4), Y2_73 (K4),

Start 66:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_64 (A20), Madraxi_99 (CF),

Start 68:

- Found in 10 of 963 (1.0%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Gaia_88 (X), Koko_64 (A6), Nebkiss_87 (X),

Start 69:

- Found in 39 of 963 (4.0%) of genes in pham
- Manual Annotations of this start: 34 of 896
- Called 89.7% of time when present
- Phage (with cluster) where this start called: Alatin_50 (CA), Alpacados_50 (CA), AppleCloud_48 (CA), Belenaria_51 (CA), Bonanza_52 (CA), Bradshaw_51 (CA), BrutonGaster_108 (CQ2), Bryce_50 (CA), CosmicSans_51 (CA), Dinger_50 (CA), Erik_51 (CA), Espica_51 (CA), Gollum_51 (CA), Harlequin_50 (CA), Hiro_51 (CA), Jester_50 (CA), Lillie_51 (CA), Naiad_50 (CA), Nancinator_51 (CA), Natosaleda_50 (CA), OneUp_118 (CQ2), Partridge_50 (CA), PhailMary_50 (CA), Phrankenstein_51 (CA), RGL3_45 (CA), Rasputin_51 (CA), RexFury_50 (CA), Rhodalysa_51 (CA), Shuman_51 (CA), StCroix_50 (CA), Swann_51 (CA), TWAMP_51 (CA), Takoda_51 (CA), UhSalsa_51 (CA), Yogi_51 (CA),

Start 70:

- Found in 25 of 963 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 4.0% of time when present
- Phage (with cluster) where this start called: PhinkBoden_133 (CQ1),

Start 71:

- Found in 41 of 963 (4.3%) of genes in pham
- Manual Annotations of this start: 29 of 896
- Called 92.7% of time when present
- Phage (with cluster) where this start called: Abscondus_133 (CQ), Alkhayr_10 (O), Aphelion_133 (CQ1), Ashwin_11 (O), Blessica_9 (O), Bora_10 (O), Catdawg_9 (O), Corndog_11 (O), Cucurbita_135 (CQ1), Dusty_130 (CQ), Engineer_136 (CQ1), Familton_10 (O), Firecracker_10 (O), FoulBall_9 (O), Idergollasper_9 (O), JangDynasty_9 (O), JonJames_144 (DD), Krili_10 (O), MadKillah_10 (O), Miskis_133 (CQ), Mori_10 (O), Murai_10 (O), NiebruSaylor_10 (O), Ryadel_12 (O), SchoolBus_9 (O), Schuy_10 (O), Sheen_60 (A7), Shida_10 (O), Smooch_11 (O), Smoothie_135 (CQ1), TelAviv_9 (O), Toniann_134 (CQ1), Vorrps_10 (O), Wildflower_10 (O), Winget_10 (O), YungJamal_11 (O), Yvonnestic_141 (DD), Zakhe101_11 (O),

Start 72:

- Found in 15 of 963 (1.6%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Culver_133 (CQ1), Norvs_132 (CQ), WilliamBoone_132 (CQ1),

Start 74:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Smeagol_62 (A1),

Start 75:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_69 (A15), Oofda_70 (A15),

Start 76:

- Found in 4 of 963 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 25.0% of time when present
- Phage (with cluster) where this start called: CloudWang3_63 (A6),

Start 78:

- Found in 4 of 963 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: REQ2_71 (singleton),

Start 79:

- Found in 2 of 963 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 896
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryonLim_2 (CT), Vine_3 (CT),

Start 80:

- Found in 103 of 963 (10.7%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 4.9% of time when present
- Phage (with cluster) where this start called: BabyBack_58 (A2), Bachome_63 (A11), Kerberos_63 (A2), Petersenfast_59 (A11), Tomathan_63 (A2),

Start 82:

- Found in 21 of 963 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 14.3% of time when present
- Phage (with cluster) where this start called: FireRed_21 (E), PhatBacter_21 (E), Porky_21 (E),

Start 89:

- Found in 22 of 963 (2.3%) of genes in pham
- Manual Annotations of this start: 12 of 896
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Anaysia_70 (A15), Battleship_72 (A15), Epsocamisio_67 (A15), JSwag_69 (A15), LastResort_68 (A15), MinecraftSteve_70 (A15), Nebulosus_68 (A15), ReMo_68 (A15), Remus_70 (A15), ShayRa_70 (A15), Strosahl_70 (A15), Switzerland_69 (A15),

Start 91:

- Found in 145 of 963 (15.1%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 2.1% of time when present
- Phage (with cluster) where this start called: Ebony_61 (A11), MyraDee_58 (A18), Salz_60 (A11),

Start 93:

- Found in 61 of 963 (6.3%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 1.6% of time when present
- Phage (with cluster) where this start called: Nedarya_66 (A15),

Start 95:

- Found in 67 of 963 (7.0%) of genes in pham
- Manual Annotations of this start: 3 of 896
- Called 6.0% of time when present
- Phage (with cluster) where this start called: BobbyDazzler_51 (CA), Krishelle_51 (CA), RER2_44 (CA), Yoncess_50 (CA),

Start 97:

- Found in 3 of 963 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 33.3% of time when present
- Phage (with cluster) where this start called: NothingSpecial_59 (A2),

Start 98:

- Found in 11 of 963 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 36.4% of time when present
- Phage (with cluster) where this start called: BluSpix_57 (A1), Gwendoluna_62 (A1), IgnatiusPatJac_59 (A1), Teodoridan_57 (A1),

Start 100:

- Found in 48 of 963 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 896
- Called 2.1% of time when present
- Phage (with cluster) where this start called: Hannaconda_119 (J),

Summary by clusters:

There are 43 clusters represented in this pham: A, singleton, DD, K4, BF, K7, DX, BS, K8, DP, DQ, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, CQ1, CS2, AA, E, CA, J, CF, O, CQ2, X, CQ, CT, A20,

Info for manual annotations of cluster A:

- Start number 34 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 20 was manually annotated 2 times for cluster A1.
- Start number 21 was manually annotated 1 time for cluster A1.
- Start number 30 was manually annotated 168 times for cluster A1.
- Start number 51 was manually annotated 14 times for cluster A1.
- Start number 56 was manually annotated 1 time for cluster A1.
- Start number 60 was manually annotated 4 times for cluster A1.
- Start number 74 was manually annotated 1 time for cluster A1.
- Start number 98 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:

- Start number 31 was manually annotated 16 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 32 was manually annotated 12 times for cluster A11.
- Start number 59 was manually annotated 7 times for cluster A11.
- Start number 80 was manually annotated 1 time for cluster A11.
- Start number 91 was manually annotated 2 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 39 was manually annotated 3 times for cluster A12.
- Start number 40 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:

- Start number 40 was manually annotated 3 times for cluster A14.
- Start number 59 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A15:

- Start number 33 was manually annotated 7 times for cluster A15.
- Start number 75 was manually annotated 1 time for cluster A15.
- Start number 89 was manually annotated 12 times for cluster A15.
- Start number 93 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:

- Start number 44 was manually annotated 1 time for cluster A16.
- Start number 49 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 91 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 31 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 23 was manually annotated 1 time for cluster A2.
- Start number 31 was manually annotated 3 times for cluster A2.
- Start number 32 was manually annotated 2 times for cluster A2.
- Start number 33 was manually annotated 1 time for cluster A2.
- Start number 36 was manually annotated 3 times for cluster A2.
- Start number 38 was manually annotated 3 times for cluster A2.
- Start number 40 was manually annotated 68 times for cluster A2.
- Start number 45 was manually annotated 1 time for cluster A2.
- Start number 47 was manually annotated 4 times for cluster A2.
- Start number 49 was manually annotated 2 times for cluster A2.
- Start number 57 was manually annotated 2 times for cluster A2.
- Start number 59 was manually annotated 7 times for cluster A2.
- Start number 80 was manually annotated 2 times for cluster A2.
- Start number 97 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:

- Start number 66 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 25 was manually annotated 23 times for cluster A3.
- Start number 31 was manually annotated 88 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 17 was manually annotated 1 time for cluster A4.
- Start number 31 was manually annotated 132 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 43 was manually annotated 1 time for cluster A5.
- Start number 56 was manually annotated 24 times for cluster A5.
- Start number 62 was manually annotated 12 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 40 was manually annotated 22 times for cluster A6.
- Start number 43 was manually annotated 17 times for cluster A6.
- Start number 68 was manually annotated 1 time for cluster A6.
- Start number 76 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 33 was manually annotated 1 time for cluster A7.
- Start number 54 was manually annotated 1 time for cluster A7.
- Start number 64 was manually annotated 2 times for cluster A7.
- Start number 71 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

- Start number 62 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 40 was manually annotated 27 times for cluster A9.

Info for manual annotations of cluster AA:

- Start number 64 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster BF:

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

Info for manual annotations of cluster BS:

- Start number 39 was manually annotated 2 times for cluster BS.

Info for manual annotations of cluster CA:

- Start number 69 was manually annotated 32 times for cluster CA.
- Start number 95 was manually annotated 3 times for cluster CA.

Info for manual annotations of cluster CF:

- Start number 52 was manually annotated 1 time for cluster CF.
- Start number 64 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CQ:

- Start number 72 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 51 was manually annotated 3 times for cluster CQ1.
- Start number 70 was manually annotated 1 time for cluster CQ1.
- Start number 71 was manually annotated 5 times for cluster CQ1.
- Start number 72 was manually annotated 2 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 69 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CS2:

- Start number 45 was manually annotated 1 time for cluster CS2.

Info for manual annotations of cluster CT:

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

Info for manual annotations of cluster DD:

- Start number 71 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DP:

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

Info for manual annotations of cluster DX:

- Start number 50 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster E:

- Start number 62 was manually annotated 15 times for cluster E.
- Start number 82 was manually annotated 3 times for cluster E.

Info for manual annotations of cluster J:

- Start number 35 was manually annotated 38 times for cluster J.
- Start number 100 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K4:

- Start number 42 was manually annotated 4 times for cluster K4.
- Start number 50 was manually annotated 3 times for cluster K4.
- Start number 64 was manually annotated 12 times for cluster K4.

Info for manual annotations of cluster K7:

- Start number 53 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 64 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster O:

- Start number 71 was manually annotated 21 times for cluster O.

Info for manual annotations of cluster X:

- Start number 68 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 20ES_65 Start: 40275, Stop: 39802, Start Num: 40

Candidate Starts for 20ES_65:

(Start: 40 @40275 has 121 MA's), (Start: 93 @40146 has 1 MA's), (130, 39945),

Gene: 244_23 Start: 13095, Stop: 13610, Start Num: 62

Candidate Starts for 244_23:

(Start: 62 @13095 has 38 MA's), (Start: 82 @13140 has 3 MA's), (121, 13392), (143, 13488),

Gene: 40AC_62 Start: 41010, Stop: 40516, Start Num: 40
Candidate Starts for 40AC_62:
(Start: 40 @41010 has 121 MA's), (Start: 93 @40878 has 1 MA's), (130, 40677), (153, 40590),

Gene: A6_53 Start: 38565, Stop: 38089, Start Num: 30
Candidate Starts for A6_53:
(Start: 30 @38565 has 168 MA's), (155, 38160), (177, 38121),

Gene: ACFishhook_62 Start: 39579, Stop: 39103, Start Num: 31
Candidate Starts for ACFishhook_62:
(Start: 31 @39579 has 240 MA's), (147, 39165), (153, 39147), (164, 39114),

Gene: AFIS_56 Start: 39287, Stop: 38796, Start Num: 30
Candidate Starts for AFIS_56:
(Start: 30 @39287 has 168 MA's), (Start: 91 @39173 has 3 MA's), (133, 38945), (155, 38867), (177, 38828),

Gene: AN3_65 Start: 38990, Stop: 38517, Start Num: 40
Candidate Starts for AN3_65:
(Start: 40 @38990 has 121 MA's), (130, 38660),

Gene: AN9_64 Start: 40015, Stop: 39551, Start Num: 47
Candidate Starts for AN9_64:
(Start: 47 @40015 has 4 MA's), (130, 39700), (140, 39655),

Gene: ANI8_64 Start: 40015, Stop: 39551, Start Num: 47
Candidate Starts for ANI8_64:
(Start: 47 @40015 has 4 MA's), (130, 39700), (140, 39655),

Gene: AbbyPaige_64 Start: 40244, Stop: 39771, Start Num: 40
Candidate Starts for AbbyPaige_64:
(Start: 23 @40268 has 1 MA's), (Start: 38 @40250 has 3 MA's), (Start: 40 @40244 has 121 MA's),
(Start: 93 @40115 has 1 MA's), (130, 39914),

Gene: AbbysRanger_56 Start: 38817, Stop: 38347, Start Num: 31
Candidate Starts for AbbysRanger_56:
(26, 38823), (Start: 31 @38817 has 240 MA's), (104, 38628), (160, 38361),

Gene: Abbysshoes_62 Start: 41333, Stop: 40857, Start Num: 30
Candidate Starts for Abbysshoes_62:
(Start: 30 @41333 has 168 MA's), (155, 40928), (177, 40889),

Gene: Abdiel_58 Start: 38979, Stop: 38509, Start Num: 31
Candidate Starts for Abdiel_58:
(Start: 31 @38979 has 240 MA's), (104, 38790),

Gene: Abrogate_590 Start: 42339, Stop: 41845, Start Num: 30
Candidate Starts for Abrogate_590:
(Start: 30 @42339 has 168 MA's), (155, 41934), (177, 41895),

Gene: Abscondus_133 Start: 73681, Stop: 74124, Start Num: 71
Candidate Starts for Abscondus_133:

(Start: 51 @73654 has 18 MA's), (Start: 71 @73681 has 29 MA's), (Start: 72 @73684 has 3 MA's),
(133, 74002), (155, 74080),

Gene: Achebe_55 Start: 38800, Stop: 38330, Start Num: 31
Candidate Starts for Achebe_55:
(26, 38806), (Start: 31 @38800 has 240 MA's), (104, 38611), (160, 38344),

Gene: Acme_61 Start: 40894, Stop: 40409, Start Num: 30
Candidate Starts for Acme_61:
(22, 40906), (Start: 30 @40894 has 168 MA's), (77, 40846), (Start: 95 @40786 has 3 MA's), (Start: 98
@40768 has 1 MA's), (128, 40597), (133, 40576), (155, 40498), (177, 40459),

Gene: Acolyte_56 Start: 38910, Stop: 38446, Start Num: 49
Candidate Starts for Acolyte_56:
(7, 39048), (Start: 49 @38910 has 4 MA's), (118, 38655), (130, 38592), (153, 38505),

Gene: Adahisdi_60 Start: 41973, Stop: 41479, Start Num: 30
Candidate Starts for Adahisdi_60:
(Start: 30 @41973 has 168 MA's), (155, 41568), (177, 41529),

Gene: Adzzy_64 Start: 38861, Stop: 38406, Start Num: 57
Candidate Starts for Adzzy_64:
(Start: 57 @38861 has 2 MA's), (130, 38552), (140, 38507),

Gene: Aeneas_63 Start: 42758, Stop: 42216, Start Num: 30
Candidate Starts for Aeneas_63:
(Start: 30 @42758 has 168 MA's), (155, 42353), (177, 42266),

Gene: Agaliana_55 Start: 37546, Stop: 37070, Start Num: 30
Candidate Starts for Agaliana_55:
(19, 37576), (Start: 30 @37546 has 168 MA's), (155, 37141), (177, 37102),

Gene: Agape74_64 Start: 40238, Stop: 39765, Start Num: 40
Candidate Starts for Agape74_64:
(Start: 23 @40262 has 1 MA's), (Start: 38 @40244 has 3 MA's), (Start: 40 @40238 has 121 MA's),
(Start: 93 @40109 has 1 MA's), (130, 39908),

Gene: AgentM_58 Start: 39657, Stop: 39199, Start Num: 62
Candidate Starts for AgentM_58:
(Start: 62 @39657 has 38 MA's), (Start: 91 @39555 has 3 MA's), (104, 39495), (110, 39459), (134,
39318), (155, 39243), (165, 39213),

Gene: Aglet_65 Start: 39622, Stop: 39146, Start Num: 31
Candidate Starts for Aglet_65:
(Start: 25 @39628 has 23 MA's), (Start: 31 @39622 has 240 MA's), (Start: 80 @39547 has 3 MA's),
(153, 39190), (164, 39157),

Gene: AgronaGT15_63 Start: 39470, Stop: 38994, Start Num: 31
Candidate Starts for AgronaGT15_63:
(Start: 25 @39476 has 23 MA's), (Start: 31 @39470 has 240 MA's), (Start: 80 @39395 has 3 MA's),
(153, 39038), (164, 39005),

Gene: Airmid_59 Start: 39805, Stop: 39341, Start Num: 56

Candidate Starts for Airmid_59:

(Start: 43 @39820 has 18 MA's), (Start: 56 @39805 has 25 MA's), (Start: 91 @39697 has 3 MA's), (104, 39637), (134, 39460), (143, 39427), (155, 39385), (165, 39355),

Gene: Ajay_60 Start: 40949, Stop: 40473, Start Num: 30

Candidate Starts for Ajay_60:

(Start: 30 @40949 has 168 MA's), (155, 40544), (177, 40505),

Gene: Alatin_50 Start: 36875, Stop: 36435, Start Num: 69

Candidate Starts for Alatin_50:

(Start: 69 @36875 has 34 MA's), (Start: 95 @36773 has 3 MA's), (125, 36596), (133, 36557), (134, 36554), (136, 36545), (155, 36479),

Gene: Albee_58 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Albee_58:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Alberto7_59 Start: 39315, Stop: 38845, Start Num: 31

Candidate Starts for Alberto7_59:

(Start: 31 @39315 has 240 MA's), (104, 39126),

Gene: Aliter_64 Start: 39965, Stop: 39501, Start Num: 40

Candidate Starts for Aliter_64:

(Start: 40 @39965 has 121 MA's), (121, 39698), (126, 39671), (130, 39650), (153, 39563),

Gene: Alkhayr_10 Start: 3488, Stop: 2868, Start Num: 71

Candidate Starts for Alkhayr_10:

(Start: 71 @3488 has 29 MA's), (123, 3215), (174, 3026), (176, 3002), (180, 2927),

Gene: Alma_62 Start: 39997, Stop: 39533, Start Num: 40

Candidate Starts for Alma_62:

(Start: 40 @39997 has 121 MA's), (121, 39730), (126, 39703), (130, 39682), (153, 39595),

Gene: Alone3_65 Start: 23323, Stop: 23781, Start Num: 39

Candidate Starts for Alone3_65:

(Start: 39 @23323 has 5 MA's), (92, 23473), (94, 23485), (102, 23518), (112, 23581), (115, 23593), (120, 23632), (127, 23674), (142, 23731), (147, 23752),

Gene: Alpacados_50 Start: 36768, Stop: 36328, Start Num: 69

Candidate Starts for Alpacados_50:

(Start: 69 @36768 has 34 MA's), (Start: 95 @36666 has 3 MA's), (125, 36489), (133, 36450), (134, 36447), (136, 36438), (155, 36372),

Gene: Alsfro_64 Start: 40578, Stop: 40075, Start Num: 20

Candidate Starts for Alsfro_64:

(Start: 20 @40578 has 2 MA's), (Start: 60 @40554 has 4 MA's), (Start: 91 @40449 has 3 MA's), (133, 40221), (155, 40143),

Gene: Altman_62 Start: 41055, Stop: 40579, Start Num: 30

Candidate Starts for Altman_62:

(12, 41109), (Start: 30 @41055 has 168 MA's), (155, 40650), (177, 40611),

Gene: Alvin_58 Start: 40262, Stop: 39786, Start Num: 30

Candidate Starts for Alvin_58:

(Start: 30 @40262 has 168 MA's), (133, 39935), (155, 39857), (177, 39818),

Gene: Aminay_72 Start: 47263, Stop: 47727, Start Num: 53

Candidate Starts for Aminay_72:

(Start: 53 @47263 has 1 MA's), (63, 47275), (Start: 68 @47287 has 3 MA's), (Start: 70 @47290 has 1 MA's), (Start: 91 @47359 has 3 MA's), (120, 47521), (121, 47527), (131, 47590), (147, 47653), (153, 47671), (154, 47677), (161, 47698), (172, 47722),

Gene: Anaysia_70 Start: 39921, Stop: 39553, Start Num: 89

Candidate Starts for Anaysia_70:

(22, 40029), (Start: 33 @40011 has 9 MA's), (Start: 89 @39921 has 12 MA's), (125, 39711), (157, 39585), (164, 39567),

Gene: Aneem_62 Start: 39371, Stop: 38874, Start Num: 32

Candidate Starts for Aneem_62:

(Start: 32 @39371 has 14 MA's), (Start: 59 @39335 has 15 MA's), (Start: 80 @39293 has 3 MA's), (Start: 91 @39239 has 3 MA's), (Start: 100 @39200 has 1 MA's), (120, 39077), (127, 39035), (130, 39023), (170, 38888),

Gene: Anglerfish_60 Start: 41203, Stop: 40730, Start Num: 51

Candidate Starts for Anglerfish_60:

(Start: 51 @41203 has 18 MA's), (155, 40798),

Gene: AnnaL29_63 Start: 40449, Stop: 39985, Start Num: 40

Candidate Starts for AnnaL29_63:

(Start: 40 @40449 has 121 MA's), (121, 40182), (130, 40134),

Gene: Annyong_58 Start: 39023, Stop: 38553, Start Num: 31

Candidate Starts for Annyong_58:

(Start: 31 @39023 has 240 MA's), (104, 38834),

Gene: Anon_69 Start: 39947, Stop: 39528, Start Num: 75

Candidate Starts for Anon_69:

(Start: 31 @40010 has 240 MA's), (Start: 75 @39947 has 1 MA's), (Start: 89 @39905 has 12 MA's), (Start: 93 @39863 has 1 MA's), (114, 39758), (121, 39710), (125, 39686), (142, 39614), (157, 39560), (164, 39542),

Gene: Anselm_63 Start: 40154, Stop: 39681, Start Num: 40

Candidate Starts for Anselm_63:

(Start: 23 @40178 has 1 MA's), (Start: 38 @40160 has 3 MA's), (Start: 40 @40154 has 121 MA's), (Start: 93 @40025 has 1 MA's), (130, 39824),

Gene: Anthony_64 Start: 40512, Stop: 40060, Start Num: 66

Candidate Starts for Anthony_64:

(Start: 66 @40512 has 1 MA's), (Start: 80 @40479 has 3 MA's), (104, 40365), (109, 40338), (127, 40221), (157, 40107), (158, 40104), (164, 40089),

Gene: Anubis_67 Start: 39514, Stop: 39032, Start Num: 25

Candidate Starts for Anubis_67:

(Start: 25 @39514 has 23 MA's), (Start: 31 @39508 has 240 MA's), (Start: 80 @39433 has 3 MA's), (153, 39076), (164, 39043),

Gene: Aphelion_133 Start: 74553, Stop: 74996, Start Num: 71
Candidate Starts for Aphelion_133:
(Start: 51 @74526 has 18 MA's), (Start: 71 @74553 has 29 MA's), (Start: 72 @74556 has 3 MA's),
(133, 74874), (155, 74952),

Gene: AppleCloud_48 Start: 36593, Stop: 36153, Start Num: 69
Candidate Starts for AppleCloud_48:
(Start: 69 @36593 has 34 MA's), (Start: 95 @36491 has 3 MA's), (125, 36314), (133, 36275), (134,
36272), (136, 36263), (155, 36197),

Gene: Applejack_56 Start: 38708, Stop: 38214, Start Num: 30
Candidate Starts for Applejack_56:
(Start: 30 @38708 has 168 MA's), (155, 38303), (177, 38264),

Gene: Aragog_58 Start: 39677, Stop: 39219, Start Num: 62
Candidate Starts for Aragog_58:
(Start: 62 @39677 has 38 MA's), (Start: 91 @39575 has 3 MA's), (104, 39515), (110, 39479), (134,
39338), (155, 39263), (165, 39233),

Gene: Arcanine_62 Start: 41927, Stop: 41433, Start Num: 51
Candidate Starts for Arcanine_62:
(Start: 51 @41927 has 18 MA's), (155, 41522), (177, 41483),

Gene: ArcherNM_56 Start: 39476, Stop: 39009, Start Num: 40
Candidate Starts for ArcherNM_56:
(Start: 38 @39482 has 3 MA's), (Start: 40 @39476 has 121 MA's), (121, 39200), (130, 39152), (153,
39065),

Gene: Archetta_58 Start: 40093, Stop: 39629, Start Num: 56
Candidate Starts for Archetta_58:
(Start: 43 @40108 has 18 MA's), (Start: 56 @40093 has 25 MA's), (Start: 68 @40075 has 3 MA's),
(Start: 91 @39985 has 3 MA's), (103, 39928), (104, 39925), (134, 39748), (143, 39715), (155, 39673),
(165, 39643),

Gene: Ariel_128 Start: 67671, Stop: 68153, Start Num: 35
Candidate Starts for Ariel_128:
(Start: 35 @67671 has 38 MA's), (120, 67965), (125, 67995), (126, 67998), (133, 68034),

Gene: Arissanae_62 Start: 40531, Stop: 40067, Start Num: 40
Candidate Starts for Arissanae_62:
(Start: 40 @40531 has 121 MA's), (126, 40237), (130, 40216),

Gene: Arlo_58 Start: 40325, Stop: 39816, Start Num: 30
Candidate Starts for Arlo_58:
(Start: 30 @40325 has 168 MA's), (Start: 91 @40211 has 3 MA's), (133, 39983), (155, 39905), (177,
39866),

Gene: Artemis2UCLA_64 Start: 38697, Stop: 38197, Start Num: 43
Candidate Starts for Artemis2UCLA_64:
(Start: 40 @38700 has 121 MA's), (Start: 43 @38697 has 18 MA's), (130, 38373),

Gene: Arturo_56 Start: 39090, Stop: 38620, Start Num: 31
Candidate Starts for Arturo_56:

(Start: 31 @39090 has 240 MA's), (104, 38901), (160, 38634),

Gene: Ashballer_62 Start: 41283, Stop: 40810, Start Num: 30

Candidate Starts for Ashballer_62:

(Start: 30 @41283 has 168 MA's), (155, 40878), (177, 40839),

Gene: Ashwin_11 Start: 3811, Stop: 3326, Start Num: 71

Candidate Starts for Ashwin_11:

(Start: 71 @3811 has 29 MA's), (88, 3751), (123, 3538), (124, 3526), (152, 3415),

Gene: Astro_64 Start: 39492, Stop: 39004, Start Num: 62

Candidate Starts for Astro_64:

(Start: 62 @39492 has 38 MA's), (Start: 91 @39390 has 3 MA's), (104, 39330), (134, 39126), (155, 39051),

Gene: Atkinbua_63 Start: 40753, Stop: 40265, Start Num: 30

Candidate Starts for Atkinbua_63:

(Start: 30 @40753 has 168 MA's), (Start: 91 @40639 has 3 MA's), (128, 40432), (133, 40411), (155, 40333), (177, 40294),

Gene: AugsMagnumOpus_67 Start: 39613, Stop: 39137, Start Num: 31

Candidate Starts for AugsMagnumOpus_67:

(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: AvatarAhPeg_55 Start: 38602, Stop: 38132, Start Num: 31

Candidate Starts for AvatarAhPeg_55:

(16, 38641), (18, 38635), (Start: 31 @38602 has 240 MA's), (104, 38413), (160, 38146),

Gene: Avle17_58 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Avle17_58:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: B1_54 Start: 37539, Stop: 37081, Start Num: 31

Candidate Starts for B1_54:

(Start: 31 @37539 has 240 MA's), (86, 37461), (87, 37458), (Start: 100 @37380 has 1 MA's), (104, 37359), (136, 37176), (155, 37110), (160, 37092),

Gene: BABullseye_56 Start: 36255, Stop: 35752, Start Num: 40

Candidate Starts for BABullseye_56:

(Start: 40 @36255 has 121 MA's), (Start: 43 @36252 has 18 MA's), (130, 35928),

Gene: BAKA_130 Start: 70647, Stop: 71123, Start Num: 35

Candidate Starts for BAKA_130:

(18, 70602), (Start: 35 @70647 has 38 MA's), (125, 70965), (126, 70968), (133, 71004), (153, 71076), (159, 71097),

Gene: BK1_53 Start: 38565, Stop: 38089, Start Num: 30

Candidate Starts for BK1_53:

(Start: 30 @38565 has 168 MA's), (155, 38160), (177, 38121),

Gene: BPBiabs31_61 Start: 41242, Stop: 40751, Start Num: 30

Candidate Starts for BPBiabs31_61:

(Start: 30 @41242 has 168 MA's), (Start: 91 @41128 has 3 MA's), (128, 40921), (133, 40900), (155, 40822), (177, 40783),

Gene: Baby16_58 Start: 38989, Stop: 38519, Start Num: 31

Candidate Starts for Baby16_58:

(Start: 31 @38989 has 240 MA's), (104, 38800),

Gene: BabyBack_58 Start: 40186, Stop: 39767, Start Num: 80

Candidate Starts for BabyBack_58:

(Start: 23 @40270 has 1 MA's), (Start: 40 @40246 has 121 MA's), (Start: 80 @40186 has 3 MA's), (130, 39916), (143, 39865), (153, 39829),

Gene: BabyRay_61 Start: 39335, Stop: 38877, Start Num: 31

Candidate Starts for BabyRay_61:

(2, 39545), (4, 39497), (Start: 31 @39335 has 240 MA's), (87, 39254), (Start: 100 @39176 has 1 MA's), (104, 39155), (155, 38906), (160, 38888),

Gene: Bachita_137 Start: 74674, Stop: 75138, Start Num: 51

Candidate Starts for Bachita_137:

(Start: 51 @74674 has 18 MA's), (Start: 71 @74701 has 29 MA's), (Start: 72 @74704 has 3 MA's), (105, 74848), (127, 74995), (153, 75094),

Gene: Bachome_63 Start: 39273, Stop: 38854, Start Num: 80

Candidate Starts for Bachome_63:

(Start: 32 @39351 has 14 MA's), (Start: 59 @39315 has 15 MA's), (Start: 80 @39273 has 3 MA's), (Start: 100 @39180 has 1 MA's), (127, 39015), (130, 39003), (170, 38868),

Gene: Backyardigan_54 Start: 38833, Stop: 38363, Start Num: 31

Candidate Starts for Backyardigan_54:

(26, 38839), (Start: 31 @38833 has 240 MA's), (104, 38644), (160, 38377),

Gene: BaconJack_65 Start: 43677, Stop: 43183, Start Num: 30

Candidate Starts for BaconJack_65:

(Start: 30 @43677 has 168 MA's), (155, 43272), (177, 43233),

Gene: Bactobuster_60 Start: 40544, Stop: 40080, Start Num: 40

Candidate Starts for Bactobuster_60:

(Start: 38 @40550 has 3 MA's), (Start: 40 @40544 has 121 MA's), (130, 40229),

Gene: Badger_55 Start: 38801, Stop: 38331, Start Num: 31

Candidate Starts for Badger_55:

(26, 38807), (Start: 31 @38801 has 240 MA's), (104, 38612), (160, 38345),

Gene: Baehexic_61 Start: 39719, Stop: 39246, Start Num: 40

Candidate Starts for Baehexic_61:

(Start: 38 @39725 has 3 MA's), (Start: 40 @39719 has 121 MA's), (Start: 93 @39590 has 1 MA's), (130, 39389),

Gene: BangNhom_58 Start: 39381, Stop: 38911, Start Num: 31

Candidate Starts for BangNhom_58:

(18, 39414), (Start: 31 @39381 has 240 MA's), (104, 39192), (160, 38925),

Gene: Barriga_61 Start: 39467, Stop: 38976, Start Num: 30

Candidate Starts for Barriga_61:
(Start: 30 @39467 has 168 MA's), (Start: 91 @39353 has 3 MA's), (Start: 93 @39338 has 1 MA's),
(108, 39272), (155, 39047), (177, 39008),

Gene: Bartimeaus_58 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Bartimeaus_58:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Bask21_21 Start: 12000, Stop: 12515, Start Num: 62
Candidate Starts for Bask21_21:
(Start: 62 @12000 has 38 MA's), (Start: 82 @12045 has 3 MA's), (121, 12297), (143, 12393),

Gene: Battleship_72 Start: 40127, Stop: 39759, Start Num: 89
Candidate Starts for Battleship_72:
(22, 40235), (Start: 33 @40217 has 9 MA's), (Start: 89 @40127 has 12 MA's), (125, 39917), (157,
39791), (164, 39773),

Gene: Beatrix_59 Start: 41420, Stop: 40932, Start Num: 30
Candidate Starts for Beatrix_59:
(Start: 30 @41420 has 168 MA's), (Start: 91 @41306 has 3 MA's), (133, 41078), (155, 41000),

Gene: Beauxregard13_64 Start: 39625, Stop: 39149, Start Num: 31
Candidate Starts for Beauxregard13_64:
(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's),
(153, 39193), (164, 39160),

Gene: Beem_132 Start: 72197, Stop: 72676, Start Num: 35
Candidate Starts for Beem_132:
(Start: 35 @72197 has 38 MA's), (114, 72440), (120, 72482), (131, 72539), (139, 72575),

Gene: Beemo_64 Start: 40135, Stop: 39671, Start Num: 40
Candidate Starts for Beemo_64:
(Start: 40 @40135 has 121 MA's), (121, 39868), (126, 39841), (130, 39820), (153, 39733),

Gene: BeesKnees_62 Start: 40320, Stop: 39844, Start Num: 30
Candidate Starts for BeesKnees_62:
(Start: 30 @40320 has 168 MA's), (155, 39915), (177, 39876),

Gene: Belenaria_51 Start: 36741, Stop: 36301, Start Num: 69
Candidate Starts for Belenaria_51:
(Start: 69 @36741 has 34 MA's), (Start: 95 @36639 has 3 MA's), (125, 36462), (133, 36423), (134,
36420), (136, 36411), (155, 36345),

Gene: BellusTerra_59 Start: 38979, Stop: 38509, Start Num: 31
Candidate Starts for BellusTerra_59:
(Start: 31 @38979 has 240 MA's), (104, 38790),

Gene: Benedict_62 Start: 40094, Stop: 39630, Start Num: 56
Candidate Starts for Benedict_62:
(Start: 43 @40109 has 18 MA's), (Start: 56 @40094 has 25 MA's), (Start: 91 @39986 has 3 MA's),
(104, 39926), (134, 39749), (143, 39716), (165, 39644),

Gene: BengiVuitton_63 Start: 40246, Stop: 39773, Start Num: 40

Candidate Starts for BengiVuitton_63:
(Start: 40 @40246 has 121 MA's), (130, 39916),

Gene: Benvolio_59 Start: 39261, Stop: 38788, Start Num: 40
Candidate Starts for Benvolio_59:
(Start: 23 @39285 has 1 MA's), (Start: 38 @39267 has 3 MA's), (Start: 40 @39261 has 121 MA's),
(Start: 93 @39132 has 1 MA's), (130, 38931),

Gene: Bethlehem_59 Start: 41973, Stop: 41485, Start Num: 30
Candidate Starts for Bethlehem_59:
(Start: 30 @41973 has 168 MA's), (Start: 91 @41859 has 3 MA's), (133, 41631), (155, 41553),

Gene: Bexan_57 Start: 41199, Stop: 40711, Start Num: 30
Candidate Starts for Bexan_57:
(Start: 30 @41199 has 168 MA's), (Start: 91 @41085 has 3 MA's), (133, 40857), (155, 40779),

Gene: BiancaTri92_62 Start: 40305, Stop: 39844, Start Num: 40
Candidate Starts for BiancaTri92_62:
(Start: 40 @40305 has 121 MA's), (130, 39987), (153, 39900),

Gene: Big3_58 Start: 41020, Stop: 40550, Start Num: 30
Candidate Starts for Big3_58:
(Start: 30 @41020 has 168 MA's), (133, 40699), (155, 40621), (177, 40582),

Gene: BigBubba_22 Start: 12584, Stop: 13099, Start Num: 62
Candidate Starts for BigBubba_22:
(Start: 62 @12584 has 38 MA's), (Start: 82 @12629 has 3 MA's), (121, 12881), (143, 12977),

Gene: BigMau_62 Start: 41034, Stop: 40525, Start Num: 30
Candidate Starts for BigMau_62:
(Start: 30 @41034 has 168 MA's), (Start: 91 @40920 has 3 MA's), (133, 40692), (155, 40614), (177, 40575),

Gene: BigPaolini_58 Start: 38863, Stop: 38387, Start Num: 30
Candidate Starts for BigPaolini_58:
(Start: 30 @38863 has 168 MA's), (155, 38458), (177, 38419),

Gene: Bigfoot_53 Start: 39818, Stop: 39342, Start Num: 30
Candidate Starts for Bigfoot_53:
(Start: 30 @39818 has 168 MA's), (155, 39413), (177, 39374),

Gene: BillKnuckles_57 Start: 41852, Stop: 41361, Start Num: 30
Candidate Starts for BillKnuckles_57:
(Start: 30 @41852 has 168 MA's), (155, 41447), (177, 41408),

Gene: Bircsak_59 Start: 42473, Stop: 41979, Start Num: 30
Candidate Starts for Bircsak_59:
(Start: 30 @42473 has 168 MA's), (155, 42068), (177, 42029),

Gene: Blackmoor_58 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Blackmoor_58:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Blessica_9 Start: 3100, Stop: 2615, Start Num: 71
Candidate Starts for Blessica_9:
(Start: 71 @3100 has 29 MA's), (88, 3040), (123, 2827), (124, 2815), (167, 2656),

Gene: Blinn1_66 Start: 38784, Stop: 38281, Start Num: 40
Candidate Starts for Blinn1_66:
(Start: 40 @38784 has 121 MA's), (Start: 43 @38781 has 18 MA's), (130, 38457),

Gene: BluSpix_57 Start: 36177, Stop: 35836, Start Num: 98
Candidate Starts for BluSpix_57:
(Start: 30 @36303 has 168 MA's), (77, 36255), (Start: 95 @36195 has 3 MA's), (Start: 98 @36177 has 1 MA's), (128, 36006), (133, 35985), (155, 35907), (177, 35868),

Gene: Blue_58 Start: 40895, Stop: 40419, Start Num: 30
Candidate Starts for Blue_58:
(Start: 30 @40895 has 168 MA's), (155, 40490), (177, 40451),

Gene: Blue7_65 Start: 38791, Stop: 38291, Start Num: 43
Candidate Starts for Blue7_65:
(Start: 40 @38794 has 121 MA's), (Start: 43 @38791 has 18 MA's), (130, 38467),

Gene: BlueBird_63 Start: 39379, Stop: 38921, Start Num: 31
Candidate Starts for BlueBird_63:
(4, 39541), (6, 39502), (Start: 31 @39379 has 240 MA's), (86, 39301), (87, 39298), (104, 39199), (155, 38950), (160, 38932),

Gene: Bluefalcon_56 Start: 40113, Stop: 39649, Start Num: 56
Candidate Starts for Bluefalcon_56:
(Start: 43 @40128 has 18 MA's), (Start: 56 @40113 has 25 MA's), (Start: 68 @40095 has 3 MA's), (Start: 91 @40005 has 3 MA's), (103, 39948), (104, 39945), (134, 39768), (143, 39735), (155, 39693), (165, 39663),

Gene: Bob3_59 Start: 40291, Stop: 39782, Start Num: 30
Candidate Starts for Bob3_59:
(Start: 30 @40291 has 168 MA's), (Start: 91 @40177 has 3 MA's), (133, 39949), (155, 39871), (177, 39832),

Gene: BobSwaget_57 Start: 38507, Stop: 38028, Start Num: 40
Candidate Starts for BobSwaget_57:
(24, 38528), (Start: 38 @38513 has 3 MA's), (Start: 40 @38507 has 121 MA's), (Start: 93 @38378 has 1 MA's), (130, 38177),

Gene: Bobby_122 Start: 72295, Stop: 72777, Start Num: 35
Candidate Starts for Bobby_122:
(Start: 35 @72295 has 38 MA's), (125, 72619), (126, 72622), (133, 72658), (153, 72730), (159, 72751),

Gene: BobbyDazzler_51 Start: 36743, Stop: 36405, Start Num: 95
Candidate Starts for BobbyDazzler_51:
(Start: 69 @36845 has 34 MA's), (Start: 95 @36743 has 3 MA's), (125, 36566), (133, 36527), (134, 36524), (136, 36515), (155, 36449),

Gene: BogosyJay_62 Start: 39932, Stop: 39468, Start Num: 40

Candidate Starts for BogosyJay_62:

(Start: 40 @39932 has 121 MA's), (126, 39638), (130, 39617),

Gene: Boilgate_68 Start: 50932, Stop: 51387, Start Num: 64

Candidate Starts for Boilgate_68:

(Start: 64 @50932 has 18 MA's), (Start: 70 @50944 has 1 MA's), (78, 50971), (Start: 95 @51031 has 3 MA's), (107, 51088), (114, 51133), (120, 51175), (133, 51253), (147, 51307), (174, 51382),

Gene: Bombitas_118 Start: 69608, Stop: 70087, Start Num: 35

Candidate Starts for Bombitas_118:

(Start: 35 @69608 has 38 MA's), (114, 69851), (120, 69893), (131, 69950), (139, 69986),

Gene: Bombshell_58 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Bombshell_58:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Bonamassa_56 Start: 39499, Stop: 39041, Start Num: 62

Candidate Starts for Bonamassa_56:

(Start: 62 @39499 has 38 MA's), (Start: 91 @39397 has 3 MA's), (104, 39337), (134, 39160), (155, 39085), (165, 39055),

Gene: Bonanza_52 Start: 37150, Stop: 36578, Start Num: 69

Candidate Starts for Bonanza_52:

(Start: 69 @37150 has 34 MA's), (Start: 95 @37048 has 3 MA's), (125, 36871), (127, 36859), (138, 36808), (155, 36754), (163, 36730), (169, 36715), (179, 36622),

Gene: Bones_59 Start: 41515, Stop: 41027, Start Num: 30

Candidate Starts for Bones_59:

(Start: 30 @41515 has 168 MA's), (Start: 91 @41401 has 3 MA's), (128, 41194), (133, 41173), (155, 41095),

Gene: Boohoo_70 Start: 40011, Stop: 39553, Start Num: 33

Candidate Starts for Boohoo_70:

(22, 40029), (Start: 33 @40011 has 9 MA's), (Start: 89 @39921 has 12 MA's), (125, 39711), (157, 39585), (164, 39567),

Gene: Bora_10 Start: 3501, Stop: 3016, Start Num: 71

Candidate Starts for Bora_10:

(Start: 71 @3501 has 29 MA's), (88, 3441), (123, 3228), (124, 3216),

Gene: Bowtie_62 Start: 39378, Stop: 38881, Start Num: 32

Candidate Starts for Bowtie_62:

(Start: 32 @39378 has 14 MA's), (Start: 59 @39342 has 15 MA's), (Start: 80 @39300 has 3 MA's), (Start: 100 @39207 has 1 MA's), (120, 39084), (127, 39042), (130, 39030), (170, 38895),

Gene: Bradshaw_51 Start: 36808, Stop: 36368, Start Num: 69

Candidate Starts for Bradshaw_51:

(Start: 69 @36808 has 34 MA's), (Start: 95 @36706 has 3 MA's), (125, 36529), (133, 36490), (134, 36487), (136, 36478), (155, 36412),

Gene: BreSam8_64 Start: 39615, Stop: 39139, Start Num: 31

Candidate Starts for BreSam8_64:

(Start: 25 @39621 has 23 MA's), (Start: 31 @39615 has 240 MA's), (Start: 80 @39540 has 3 MA's),
(153, 39183), (164, 39150),

Gene: Briton15_64 Start: 42512, Stop: 42018, Start Num: 30
Candidate Starts for Briton15_64:
(Start: 30 @42512 has 168 MA's), (155, 42107), (177, 42068),

Gene: Broseidon_58 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Broseidon_58:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Bruin_21 Start: 12841, Stop: 13356, Start Num: 62
Candidate Starts for Bruin_21:
(Start: 62 @12841 has 38 MA's), (Start: 82 @12886 has 3 MA's), (121, 13138), (143, 13234),

Gene: Bruiser_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Bruiser_57:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Bruns_58 Start: 39437, Stop: 38961, Start Num: 30
Candidate Starts for Bruns_58:
(Start: 30 @39437 has 168 MA's), (155, 39032), (177, 38993),

Gene: BrutonGaster_108 Start: 68282, Stop: 68719, Start Num: 69
Candidate Starts for BrutonGaster_108:
(Start: 69 @68282 has 34 MA's),

Gene: Bryce_50 Start: 36553, Stop: 36113, Start Num: 69
Candidate Starts for Bryce_50:
(Start: 69 @36553 has 34 MA's), (Start: 95 @36451 has 3 MA's), (125, 36274), (133, 36235), (134,
36232), (136, 36223), (155, 36157),

Gene: BubbleTrouble_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for BubbleTrouble_57:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Bud_60 Start: 38925, Stop: 38428, Start Num: 32
Candidate Starts for Bud_60:
(Start: 32 @38925 has 14 MA's), (Start: 59 @38889 has 15 MA's), (Start: 80 @38847 has 3 MA's),
(Start: 91 @38793 has 3 MA's), (Start: 100 @38754 has 1 MA's), (120, 38631), (127, 38589), (130,
38577), (170, 38442),

Gene: Bugatti_61 Start: 39379, Stop: 38921, Start Num: 31
Candidate Starts for Bugatti_61:
(4, 39541), (6, 39502), (Start: 31 @39379 has 240 MA's), (86, 39301), (87, 39298), (104, 39199), (155,
38950), (160, 38932),

Gene: Buggy_64 Start: 40295, Stop: 39822, Start Num: 40
Candidate Starts for Buggy_64:
(Start: 23 @40319 has 1 MA's), (Start: 38 @40301 has 3 MA's), (Start: 40 @40295 has 121 MA's),
(Start: 93 @40166 has 1 MA's), (130, 39965),

Gene: Bumblebee11_55 Start: 38803, Stop: 38333, Start Num: 31

Candidate Starts for Bumblebee11_55:
(26, 38809), (Start: 31 @38803 has 240 MA's), (104, 38614), (160, 38347),

Gene: Burger_56 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Burger_56:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Burton_60 Start: 42081, Stop: 41587, Start Num: 30
Candidate Starts for Burton_60:
(Start: 30 @42081 has 168 MA's), (155, 41676), (177, 41637),

Gene: Buttons_57 Start: 38386, Stop: 37910, Start Num: 30
Candidate Starts for Buttons_57:
(Start: 30 @38386 has 168 MA's), (155, 37981), (177, 37942),

Gene: BuzzBuzz_61 Start: 39649, Stop: 39173, Start Num: 31
Candidate Starts for BuzzBuzz_61:
(Start: 25 @39655 has 23 MA's), (Start: 31 @39649 has 240 MA's), (153, 39217), (164, 39184),

Gene: Bxb1_54 Start: 39137, Stop: 38661, Start Num: 30
Candidate Starts for Bxb1_54:
(Start: 30 @39137 has 168 MA's), (155, 38732), (177, 38693),

Gene: Bxz2_59 Start: 39656, Stop: 39180, Start Num: 31
Candidate Starts for Bxz2_59:
(Start: 25 @39662 has 23 MA's), (Start: 31 @39656 has 240 MA's), (Start: 80 @39581 has 3 MA's),
(153, 39224), (164, 39191),

Gene: C3_58 Start: 40015, Stop: 39551, Start Num: 47
Candidate Starts for C3_58:
(Start: 47 @40015 has 4 MA's), (130, 39700), (140, 39655),

Gene: CRB1_65 Start: 40792, Stop: 40319, Start Num: 40
Candidate Starts for CRB1_65:
(Start: 40 @40792 has 121 MA's), (Start: 93 @40663 has 1 MA's), (130, 40462),

Gene: CactusRose_58 Start: 40570, Stop: 40085, Start Num: 56
Candidate Starts for CactusRose_58:
(Start: 30 @40576 has 168 MA's), (Start: 56 @40570 has 25 MA's), (155, 40171), (177, 40132),

Gene: Caelakin_58 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Caelakin_58:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Camperdownii_56 Start: 38652, Stop: 38182, Start Num: 31
Candidate Starts for Camperdownii_56:
(Start: 31 @38652 has 240 MA's), (104, 38463),

Gene: Candra_61 Start: 38619, Stop: 38116, Start Num: 40
Candidate Starts for Candra_61:
(Start: 40 @38619 has 121 MA's), (Start: 43 @38616 has 18 MA's), (130, 38292),

Gene: Carlyle_59 Start: 39172, Stop: 38705, Start Num: 30

Candidate Starts for Carlyle_59:
(Start: 30 @39172 has 168 MA's), (133, 38851), (155, 38773),

Gene: Catdawg_9 Start: 3150, Stop: 2665, Start Num: 71
Candidate Starts for Catdawg_9:
(Start: 71 @3150 has 29 MA's), (88, 3090), (123, 2877), (124, 2865), (167, 2706),

Gene: Caviar_60 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for Caviar_60:
(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (133, 38987),
(153, 38915), (160, 38891),

Gene: Centaur_63 Start: 39933, Stop: 39460, Start Num: 40
Candidate Starts for Centaur_63:
(Start: 38 @39939 has 3 MA's), (Start: 40 @39933 has 121 MA's), (Start: 93 @39804 has 1 MA's),
(130, 39603),

Gene: CentreCat_58 Start: 38981, Stop: 38511, Start Num: 31
Candidate Starts for CentreCat_58:
(Start: 31 @38981 has 240 MA's), (104, 38792),

Gene: Cerulean_59 Start: 39382, Stop: 38912, Start Num: 31
Candidate Starts for Cerulean_59:
(18, 39415), (Start: 31 @39382 has 240 MA's), (104, 39193), (160, 38926),

Gene: Chadwick_61 Start: 39781, Stop: 39317, Start Num: 56
Candidate Starts for Chadwick_61:
(Start: 43 @39796 has 18 MA's), (Start: 56 @39781 has 25 MA's), (Start: 91 @39673 has 3 MA's),
(104, 39613), (134, 39436), (143, 39403), (155, 39361), (165, 39331),

Gene: ChampagnePapi_60 Start: 39381, Stop: 38911, Start Num: 31
Candidate Starts for ChampagnePapi_60:
(18, 39414), (Start: 31 @39381 has 240 MA's), (104, 39192), (160, 38925),

Gene: Chanagan_55 Start: 38471, Stop: 37995, Start Num: 30
Candidate Starts for Chanagan_55:
(Start: 30 @38471 has 168 MA's), (155, 38066), (177, 38027),

Gene: Chancellor_76 Start: 48376, Stop: 48852, Start Num: 64
Candidate Starts for Chancellor_76:
(Start: 42 @48352 has 4 MA's), (Start: 64 @48376 has 18 MA's), (Start: 70 @48388 has 1 MA's), (83,
48424), (90, 48460), (Start: 91 @48478 has 3 MA's), (Start: 95 @48496 has 3 MA's), (120, 48640),
(121, 48646), (131, 48709), (139, 48745), (142, 48748), (161, 48817), (172, 48841),

Gene: Changeling_61 Start: 40336, Stop: 39878, Start Num: 40
Candidate Starts for Changeling_61:
(Start: 40 @40336 has 121 MA's), (130, 40021), (153, 39934),

Gene: Chaph_58 Start: 38989, Stop: 38519, Start Num: 31
Candidate Starts for Chaph_58:
(Start: 31 @38989 has 240 MA's), (104, 38800),

Gene: Chargerpower_60 Start: 38484, Stop: 38008, Start Num: 34

Candidate Starts for Chargerpower_60:
(Start: 34 @38484 has 1 MA's), (126, 38175), (130, 38154), (153, 38067),

Gene: Charm_61 Start: 39663, Stop: 39199, Start Num: 40
Candidate Starts for Charm_61:
(Start: 40 @39663 has 121 MA's), (126, 39369), (130, 39348),

Gene: Chartreuse_60 Start: 37967, Stop: 37467, Start Num: 43
Candidate Starts for Chartreuse_60:
(Start: 40 @37970 has 121 MA's), (Start: 43 @37967 has 18 MA's), (130, 37643),

Gene: Che12_63 Start: 38822, Stop: 38367, Start Num: 57
Candidate Starts for Che12_63:
(Start: 57 @38822 has 2 MA's), (130, 38513),

Gene: Cheetobro_76 Start: 48349, Stop: 48849, Start Num: 42
Candidate Starts for Cheetobro_76:
(Start: 42 @48349 has 4 MA's), (Start: 64 @48373 has 18 MA's), (Start: 70 @48385 has 1 MA's), (83, 48421), (90, 48457), (Start: 91 @48475 has 3 MA's), (Start: 95 @48493 has 3 MA's), (120, 48637), (121, 48643), (131, 48706), (139, 48742), (142, 48745), (161, 48814), (172, 48838),

Gene: CherryonLim_2 Start: 640, Stop: 990, Start Num: 79
Candidate Starts for CherryonLim_2:
(Start: 79 @640 has 2 MA's), (99, 748), (101, 751), (120, 874), (121, 880), (126, 907), (127, 916), (135, 949), (137, 952), (141, 970),

Gene: ChipMunk_64 Start: 41504, Stop: 41031, Start Num: 40
Candidate Starts for ChipMunk_64:
(Start: 40 @41504 has 121 MA's), (130, 41174),

Gene: Chupacabra_57 Start: 38882, Stop: 38397, Start Num: 31
Candidate Starts for Chupacabra_57:
(Start: 31 @38882 has 240 MA's), (104, 38690), (159, 38426), (160, 38423), (165, 38411),

Gene: Ciao_58 Start: 39844, Stop: 39368, Start Num: 30
Candidate Starts for Ciao_58:
(Start: 30 @39844 has 168 MA's), (155, 39439), (177, 39400),

Gene: Cici_56 Start: 38818, Stop: 38348, Start Num: 31
Candidate Starts for Cici_56:
(26, 38824), (Start: 31 @38818 has 240 MA's), (104, 38629), (160, 38362),

Gene: Cindaradix_53 Start: 38448, Stop: 37978, Start Num: 31
Candidate Starts for Cindaradix_53:
(18, 38481), (Start: 31 @38448 has 240 MA's), (104, 38259), (160, 37992),

Gene: Cintron_57 Start: 38955, Stop: 38485, Start Num: 31
Candidate Starts for Cintron_57:
(Start: 31 @38955 has 240 MA's), (104, 38766),

Gene: Citius_58 Start: 38999, Stop: 38529, Start Num: 31
Candidate Starts for Citius_58:
(Start: 31 @38999 has 240 MA's), (104, 38810),

Gene: Clarenza_57 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Clarenza_57:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: CloudWang3_63 Start: 38546, Stop: 38136, Start Num: 76

Candidate Starts for CloudWang3_63:

(Start: 68 @38564 has 3 MA's), (Start: 76 @38546 has 1 MA's), (Start: 100 @38423 has 1 MA's), (117, 38318), (122, 38258), (129, 38228), (140, 38183), (142, 38180), (147, 38159),

Gene: CloudWang3_65 Start: 39209, Stop: 38709, Start Num: 43

Candidate Starts for CloudWang3_65:

(Start: 40 @39212 has 121 MA's), (Start: 43 @39209 has 18 MA's), (130, 38885),

Gene: ClubL_134 Start: 73245, Stop: 73709, Start Num: 51

Candidate Starts for ClubL_134:

(Start: 51 @73245 has 18 MA's), (Start: 71 @73272 has 29 MA's), (Start: 72 @73275 has 3 MA's), (105, 73419), (127, 73566), (153, 73665),

Gene: Cocoaberry_58 Start: 38982, Stop: 38512, Start Num: 31

Candidate Starts for Cocoaberry_58:

(Start: 31 @38982 has 240 MA's), (104, 38793),

Gene: Colbster_63 Start: 39625, Stop: 39149, Start Num: 31

Candidate Starts for Colbster_63:

(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's), (153, 39193), (164, 39160),

Gene: Commander_58 Start: 38977, Stop: 38507, Start Num: 31

Candidate Starts for Commander_58:

(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: ConceptII_62 Start: 41910, Stop: 41434, Start Num: 30

Candidate Starts for ConceptII_62:

(Start: 30 @41910 has 168 MA's), (155, 41505), (177, 41466),

Gene: Connomayer_58 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Connomayer_58:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Conquerage_62 Start: 39766, Stop: 39302, Start Num: 40

Candidate Starts for Conquerage_62:

(Start: 40 @39766 has 121 MA's), (130, 39451),

Gene: Conspiracy_59 Start: 39899, Stop: 39441, Start Num: 62

Candidate Starts for Conspiracy_59:

(Start: 62 @39899 has 38 MA's), (Start: 91 @39797 has 3 MA's), (104, 39737), (110, 39701), (134, 39560), (155, 39485), (165, 39455),

Gene: Constella_120 Start: 67734, Stop: 68210, Start Num: 35

Candidate Starts for Constella_120:

(Start: 35 @67734 has 38 MA's), (125, 68052), (126, 68055), (133, 68091), (153, 68163), (159, 68184),

Gene: Coog_56 Start: 39869, Stop: 39405, Start Num: 56

Candidate Starts for Coog_56:

(Start: 43 @39884 has 18 MA's), (Start: 56 @39869 has 25 MA's), (Start: 91 @39761 has 3 MA's), (104, 39701), (134, 39524), (155, 39449), (165, 39419),

Gene: Cookiedough_63 Start: 38598, Stop: 38095, Start Num: 40

Candidate Starts for Cookiedough_63:

(Start: 40 @38598 has 121 MA's), (Start: 43 @38595 has 18 MA's), (130, 38271),

Gene: Corndog_11 Start: 3793, Stop: 3308, Start Num: 71

Candidate Starts for Corndog_11:

(Start: 71 @3793 has 29 MA's), (88, 3733), (123, 3520), (124, 3508),

Gene: Corvo_60 Start: 41389, Stop: 40922, Start Num: 30

Candidate Starts for Corvo_60:

(Start: 30 @41389 has 168 MA's), (133, 41068), (155, 40990),

Gene: CosmicSans_51 Start: 36799, Stop: 36359, Start Num: 69

Candidate Starts for CosmicSans_51:

(Start: 69 @36799 has 34 MA's), (Start: 95 @36697 has 3 MA's), (125, 36520), (133, 36481), (134, 36478), (136, 36469), (155, 36403),

Gene: Courthouse_123 Start: 67271, Stop: 67753, Start Num: 35

Candidate Starts for Courthouse_123:

(Start: 35 @67271 has 38 MA's), (120, 67565), (125, 67595), (126, 67598), (133, 67634),

Gene: Crispicous1_57 Start: 39629, Stop: 39138, Start Num: 30

Candidate Starts for Crispicous1_57:

(Start: 30 @39629 has 168 MA's), (155, 39224), (177, 39185),

Gene: Crucio_62 Start: 39921, Stop: 39448, Start Num: 40

Candidate Starts for Crucio_62:

(Start: 23 @39945 has 1 MA's), (Start: 38 @39927 has 3 MA's), (Start: 40 @39921 has 121 MA's), (Start: 93 @39792 has 1 MA's), (130, 39591),

Gene: Cuco_58 Start: 39744, Stop: 39265, Start Num: 43

Candidate Starts for Cuco_58:

(Start: 43 @39744 has 18 MA's), (Start: 56 @39729 has 25 MA's), (Start: 91 @39621 has 3 MA's), (104, 39561), (134, 39384), (155, 39309), (165, 39279),

Gene: Cucurbita_135 Start: 75014, Stop: 75451, Start Num: 71

Candidate Starts for Cucurbita_135:

(Start: 51 @74987 has 18 MA's), (Start: 71 @75014 has 29 MA's), (Start: 72 @75017 has 3 MA's), (105, 75161), (127, 75308), (153, 75407),

Gene: Cueyllyss_60 Start: 41715, Stop: 41227, Start Num: 30

Candidate Starts for Cueyllyss_60:

(Start: 30 @41715 has 168 MA's), (Start: 91 @41601 has 3 MA's), (128, 41394), (133, 41373), (155, 41295),

Gene: Cullens_64 Start: 39621, Stop: 39145, Start Num: 31

Candidate Starts for Cullens_64:

(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's), (153, 39189), (164, 39156),

Gene: Culver_133 Start: 73010, Stop: 73450, Start Num: 72

Candidate Starts for Culver_133:

(Start: 70 @73007 has 1 MA's), (Start: 72 @73010 has 3 MA's), (133, 73328), (155, 73406),

Gene: D29_59 Start: 39612, Stop: 39115, Start Num: 31

Candidate Starts for D29_59:

(Start: 31 @39612 has 240 MA's), (Start: 59 @39576 has 15 MA's), (Start: 80 @39534 has 3 MA's), (86, 39522), (130, 39264), (140, 39219),

Gene: D32_62 Start: 39576, Stop: 39115, Start Num: 59

Candidate Starts for D32_62:

(Start: 31 @39612 has 240 MA's), (Start: 59 @39576 has 15 MA's), (Start: 80 @39534 has 3 MA's), (86, 39522), (130, 39264), (140, 39219),

Gene: DBQu4n_63 Start: 39593, Stop: 39096, Start Num: 31

Candidate Starts for DBQu4n_63:

(Start: 31 @39593 has 240 MA's), (Start: 59 @39557 has 15 MA's), (Start: 80 @39515 has 3 MA's), (86, 39503), (130, 39245), (140, 39200),

Gene: DD5_58 Start: 40745, Stop: 40257, Start Num: 30

Candidate Starts for DD5_58:

(Start: 30 @40745 has 168 MA's), (Start: 91 @40631 has 3 MA's), (118, 40478), (133, 40403), (155, 40325),

Gene: DaHudson_63 Start: 39620, Stop: 39138, Start Num: 25

Candidate Starts for DaHudson_63:

(Start: 25 @39620 has 23 MA's), (Start: 31 @39614 has 240 MA's), (Start: 80 @39539 has 3 MA's), (153, 39182), (164, 39149),

Gene: DaVinci_61 Start: 38024, Stop: 37521, Start Num: 40

Candidate Starts for DaVinci_61:

(Start: 40 @38024 has 121 MA's), (Start: 43 @38021 has 18 MA's), (130, 37697),

Gene: Daishi_63 Start: 38490, Stop: 38014, Start Num: 31

Candidate Starts for Daishi_63:

(Start: 25 @38496 has 23 MA's), (Start: 31 @38490 has 240 MA's), (Start: 80 @38415 has 3 MA's), (153, 38058), (164, 38025),

Gene: Dallas_131 Start: 71712, Stop: 72188, Start Num: 35

Candidate Starts for Dallas_131:

(Start: 35 @71712 has 38 MA's), (125, 72030), (126, 72033), (133, 72069), (153, 72141), (159, 72162),

Gene: Dalmatian_63 Start: 40127, Stop: 39654, Start Num: 40

Candidate Starts for Dalmatian_63:

(Start: 23 @40151 has 1 MA's), (Start: 38 @40133 has 3 MA's), (Start: 40 @40127 has 121 MA's), (Start: 93 @39998 has 1 MA's), (130, 39797),

Gene: Danforth_64 Start: 39555, Stop: 39067, Start Num: 62

Candidate Starts for Danforth_64:

(48, 39561), (Start: 62 @39555 has 38 MA's), (Start: 91 @39453 has 3 MA's), (104, 39393), (155, 39114),

Gene: Darrell_65 Start: 40606, Stop: 40142, Start Num: 40
Candidate Starts for Darrell_65:
(Start: 40 @40606 has 121 MA's), (126, 40312), (130, 40291),

Gene: DarthPhader_59 Start: 40882, Stop: 40415, Start Num: 39
Candidate Starts for DarthPhader_59:
(Start: 39 @40882 has 5 MA's), (126, 40585), (130, 40564), (155, 40471),

Gene: Datway_56 Start: 38789, Stop: 38319, Start Num: 31
Candidate Starts for Datway_56:
(26, 38795), (Start: 31 @38789 has 240 MA's), (104, 38600), (160, 38333),

Gene: Deano_57 Start: 38986, Stop: 38516, Start Num: 31
Candidate Starts for Deano_57:
(Start: 31 @38986 has 240 MA's), (104, 38797),

Gene: DekHockey33_71 Start: 40303, Stop: 39845, Start Num: 33
Candidate Starts for DekHockey33_71:
(22, 40321), (Start: 33 @40303 has 9 MA's), (Start: 89 @40213 has 12 MA's), (125, 40003), (157, 39877), (164, 39859),

Gene: Deloris_63 Start: 39942, Stop: 39469, Start Num: 40
Candidate Starts for Deloris_63:
(Start: 40 @39942 has 121 MA's), (130, 39612),

Gene: Dexes_59 Start: 40748, Stop: 40272, Start Num: 30
Candidate Starts for Dexes_59:
(Start: 30 @40748 has 168 MA's), (155, 40343), (177, 40304),

Gene: Dhanush_58 Start: 38981, Stop: 38511, Start Num: 31
Candidate Starts for Dhanush_58:
(13, 39032), (Start: 31 @38981 has 240 MA's), (104, 38792),

Gene: Dieselweasel_65 Start: 39624, Stop: 39148, Start Num: 31
Candidate Starts for Dieselweasel_65:
(Start: 25 @39630 has 23 MA's), (Start: 31 @39624 has 240 MA's), (Start: 80 @39549 has 3 MA's), (153, 39192), (164, 39159),

Gene: Dignity_64 Start: 40318, Stop: 39845, Start Num: 40
Candidate Starts for Dignity_64:
(Start: 40 @40318 has 121 MA's), (Start: 93 @40189 has 1 MA's), (130, 39988),

Gene: Dinger_50 Start: 36941, Stop: 36501, Start Num: 69
Candidate Starts for Dinger_50:
(Start: 69 @36941 has 34 MA's), (Start: 80 @36911 has 3 MA's), (Start: 95 @36839 has 3 MA's), (125, 36662), (133, 36623), (134, 36620), (136, 36611), (155, 36545),

Gene: DirtyDunning_57 Start: 38990, Stop: 38520, Start Num: 31
Candidate Starts for DirtyDunning_57:
(Start: 31 @38990 has 240 MA's), (104, 38801),

Gene: Discoknowium_57 Start: 39572, Stop: 39108, Start Num: 56

Candidate Starts for Discoknowium_57:

(Start: 43 @39587 has 18 MA's), (Start: 56 @39572 has 25 MA's), (Start: 68 @39554 has 3 MA's), (Start: 91 @39464 has 3 MA's), (103, 39407), (104, 39404), (134, 39227), (143, 39194), (155, 39152), (165, 39122),

Gene: Dixon_63 Start: 39075, Stop: 38587, Start Num: 62

Candidate Starts for Dixon_63:

(48, 39081), (Start: 62 @39075 has 38 MA's), (Start: 91 @38973 has 3 MA's), (104, 38913), (134, 38709), (155, 38634),

Gene: DmpstrDiver_130 Start: 71014, Stop: 71490, Start Num: 35

Candidate Starts for DmpstrDiver_130:

(Start: 35 @71014 has 38 MA's), (125, 71332), (126, 71335), (133, 71371), (153, 71443), (159, 71464),

Gene: Doom_58 Start: 41322, Stop: 40855, Start Num: 30

Candidate Starts for Doom_58:

(Start: 30 @41322 has 168 MA's), (133, 41001), (155, 40923),

Gene: Dorothea_60 Start: 38596, Stop: 38093, Start Num: 40

Candidate Starts for Dorothea_60:

(Start: 40 @38596 has 121 MA's), (Start: 43 @38593 has 18 MA's), (130, 38269), (149, 38197),

Gene: Dove_123 Start: 66658, Stop: 67134, Start Num: 35

Candidate Starts for Dove_123:

(18, 66613), (Start: 35 @66658 has 38 MA's), (125, 66976), (126, 66979), (133, 67015), (153, 67087), (159, 67108),

Gene: DrFeelGood_57 Start: 39707, Stop: 39231, Start Num: 30

Candidate Starts for DrFeelGood_57:

(Start: 30 @39707 has 168 MA's), (155, 39302), (177, 39263),

Gene: Drake55_64 Start: 40018, Stop: 39545, Start Num: 40

Candidate Starts for Drake55_64:

(Start: 23 @40042 has 1 MA's), (Start: 38 @40024 has 3 MA's), (Start: 40 @40018 has 121 MA's), (Start: 93 @39889 has 1 MA's), (130, 39688),

Gene: Drake94_57 Start: 38129, Stop: 37644, Start Num: 31

Candidate Starts for Drake94_57:

(Start: 31 @38129 has 240 MA's), (104, 37937), (158, 37676), (165, 37658),

Gene: DreamCatcher_63 Start: 41385, Stop: 40897, Start Num: 30

Candidate Starts for DreamCatcher_63:

(Start: 30 @41385 has 168 MA's), (Start: 91 @41271 has 3 MA's), (128, 41064), (133, 41043), (155, 40965), (177, 40926),

Gene: DreamTeam1_61 Start: 39495, Stop: 39031, Start Num: 40

Candidate Starts for DreamTeam1_61:

(Start: 40 @39495 has 121 MA's), (126, 39201), (130, 39180),

Gene: Dreamboat_60 Start: 39615, Stop: 39127, Start Num: 30

Candidate Starts for Dreamboat_60:

(Start: 30 @39615 has 168 MA's), (Start: 91 @39501 has 3 MA's), (133, 39273), (155, 39195),

Gene: DroogsArmy_56 Start: 41388, Stop: 40951, Start Num: 64

Candidate Starts for DroogsArmy_56:

(26, 41439), (Start: 64 @41388 has 18 MA's), (Start: 91 @41301 has 3 MA's), (Start: 100 @41262 has 1 MA's), (133, 41070), (134, 41067), (136, 41058), (155, 40992), (159, 40977), (160, 40974),

Gene: Druantia_58 Start: 38981, Stop: 38511, Start Num: 31

Candidate Starts for Druantia_58:

(Start: 31 @38981 has 240 MA's), (104, 38792),

Gene: Dublin_58 Start: 39805, Stop: 39341, Start Num: 56

Candidate Starts for Dublin_58:

(Start: 43 @39820 has 18 MA's), (Start: 56 @39805 has 25 MA's), (Start: 91 @39697 has 3 MA's), (104, 39637), (110, 39601), (134, 39460), (155, 39385), (165, 39355),

Gene: DudeLittle_61 Start: 39893, Stop: 39420, Start Num: 40

Candidate Starts for DudeLittle_61:

(Start: 23 @39917 has 1 MA's), (Start: 38 @39899 has 3 MA's), (Start: 40 @39893 has 121 MA's), (Start: 93 @39764 has 1 MA's), (130, 39563),

Gene: Duke13_125 Start: 68315, Stop: 68791, Start Num: 35

Candidate Starts for Duke13_125:

(18, 68270), (Start: 35 @68315 has 38 MA's), (125, 68633), (126, 68636), (133, 68672), (153, 68744), (159, 68765),

Gene: Dulcie_61 Start: 42341, Stop: 41865, Start Num: 30

Candidate Starts for Dulcie_61:

(Start: 30 @42341 has 168 MA's), (155, 41936), (177, 41897),

Gene: Duplo_63 Start: 39613, Stop: 39152, Start Num: 59

Candidate Starts for Duplo_63:

(Start: 31 @39649 has 240 MA's), (Start: 59 @39613 has 15 MA's), (Start: 80 @39571 has 3 MA's), (86, 39559), (130, 39301), (140, 39256),

Gene: Dussy_61 Start: 41353, Stop: 40877, Start Num: 30

Candidate Starts for Dussy_61:

(Start: 30 @41353 has 168 MA's), (155, 40948), (177, 40909),

Gene: Dusty_130 Start: 73243, Stop: 73686, Start Num: 71

Candidate Starts for Dusty_130:

(Start: 51 @73216 has 18 MA's), (Start: 71 @73243 has 29 MA's), (Start: 72 @73246 has 3 MA's), (133, 73564), (155, 73642),

Gene: Dynamix_61 Start: 40132, Stop: 39665, Start Num: 30

Candidate Starts for Dynamix_61:

(Start: 30 @40132 has 168 MA's), (133, 39811), (155, 39733),

Gene: EZMoney23_58 Start: 39411, Stop: 38947, Start Num: 40

Candidate Starts for EZMoney23_58:

(Start: 38 @39417 has 3 MA's), (Start: 40 @39411 has 121 MA's), (130, 39090),

Gene: Eagle_58 Start: 39003, Stop: 38533, Start Num: 31
Candidate Starts for Eagle_58:
(Start: 31 @39003 has 240 MA's), (104, 38814), (138, 38619),

Gene: EagleEye_65 Start: 39846, Stop: 39388, Start Num: 49
Candidate Starts for EagleEye_65:
(Start: 44 @39852 has 1 MA's), (Start: 49 @39846 has 4 MA's), (121, 39585), (126, 39558), (130, 39537), (153, 39450),

Gene: Eaglepride_60 Start: 39072, Stop: 38587, Start Num: 31
Candidate Starts for Eaglepride_60:
(1, 39684), (9, 39138), (Start: 31 @39072 has 240 MA's), (Start: 42 @39051 has 4 MA's), (104, 38880), (159, 38616), (160, 38613), (165, 38601),

Gene: Eapen_58 Start: 38973, Stop: 38503, Start Num: 31
Candidate Starts for Eapen_58:
(Start: 31 @38973 has 240 MA's), (104, 38784),

Gene: Ebony_61 Start: 38810, Stop: 38445, Start Num: 91
Candidate Starts for Ebony_61:
(Start: 32 @38942 has 14 MA's), (Start: 59 @38906 has 15 MA's), (Start: 80 @38864 has 3 MA's), (Start: 91 @38810 has 3 MA's), (Start: 100 @38771 has 1 MA's), (120, 38648), (127, 38606), (130, 38594), (170, 38459),

Gene: Echild_62 Start: 39285, Stop: 38812, Start Num: 40
Candidate Starts for Echild_62:
(Start: 23 @39309 has 1 MA's), (Start: 38 @39291 has 3 MA's), (Start: 40 @39285 has 121 MA's), (Start: 93 @39156 has 1 MA's), (130, 38955),

Gene: Edison31_55 Start: 38915, Stop: 38430, Start Num: 31
Candidate Starts for Edison31_55:
(9, 38981), (Start: 31 @38915 has 240 MA's), (104, 38723), (153, 38480), (159, 38459), (160, 38456), (165, 38444),

Gene: Edtherson_59 Start: 41316, Stop: 40822, Start Num: 30
Candidate Starts for Edtherson_59:
(Start: 30 @41316 has 168 MA's), (155, 40911), (177, 40872),

Gene: Eidsmoe_62 Start: 39758, Stop: 39294, Start Num: 40
Candidate Starts for Eidsmoe_62:
(Start: 40 @39758 has 121 MA's), (130, 39443),

Gene: Ejimix_124 Start: 71780, Stop: 72256, Start Num: 35
Candidate Starts for Ejimix_124:
(Start: 35 @71780 has 38 MA's), (125, 72098), (126, 72101), (133, 72137), (153, 72209), (159, 72230),

Gene: EITiger69_61 Start: 40029, Stop: 39565, Start Num: 56
Candidate Starts for EITiger69_61:
(Start: 43 @40044 has 18 MA's), (Start: 56 @40029 has 25 MA's), (Start: 91 @39921 has 3 MA's), (104, 39861), (134, 39684), (143, 39651), (155, 39609), (165, 39579),

Gene: Elephantoon_62 Start: 39345, Stop: 38881, Start Num: 40

Candidate Starts for Elephantoon_62:
(Start: 40 @39345 has 121 MA's), (121, 39078), (126, 39051), (130, 39030),

Gene: Emmina_22 Start: 12652, Stop: 13167, Start Num: 62
Candidate Starts for Emmina_22:
(Start: 62 @12652 has 38 MA's), (Start: 82 @12697 has 3 MA's), (121, 12949), (143, 13045),

Gene: Engineer_136 Start: 74674, Stop: 75111, Start Num: 71
Candidate Starts for Engineer_136:
(Start: 51 @74647 has 18 MA's), (Start: 71 @74674 has 29 MA's), (Start: 72 @74677 has 3 MA's),
(105, 74821), (127, 74968), (153, 75067),

Gene: EpicPhail_65 Start: 39625, Stop: 39149, Start Num: 31
Candidate Starts for EpicPhail_65:
(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's),
(153, 39193), (164, 39160),

Gene: Eponine_78 Start: 49220, Stop: 49696, Start Num: 64
Candidate Starts for Eponine_78:
(Start: 42 @49196 has 4 MA's), (Start: 64 @49220 has 18 MA's), (Start: 70 @49232 has 1 MA's), (83,
49268), (90, 49304), (Start: 91 @49322 has 3 MA's), (Start: 95 @49340 has 3 MA's), (131, 49553),
(139, 49589), (142, 49592), (161, 49661), (172, 49685),

Gene: Epsocamisio_67 Start: 39456, Stop: 39088, Start Num: 89
Candidate Starts for Epsocamisio_67:
(Start: 33 @39546 has 9 MA's), (Start: 89 @39456 has 12 MA's), (125, 39246), (157, 39120), (164,
39102),

Gene: Equemioh13_62 Start: 39838, Stop: 39365, Start Num: 40
Candidate Starts for Equemioh13_62:
(Start: 38 @39844 has 3 MA's), (Start: 40 @39838 has 121 MA's), (Start: 93 @39709 has 1 MA's),
(130, 39508),

Gene: EricB_62 Start: 38576, Stop: 38073, Start Num: 40
Candidate Starts for EricB_62:
(Start: 40 @38576 has 121 MA's), (Start: 43 @38573 has 18 MA's), (130, 38249),

Gene: EricMillard_122 Start: 70284, Stop: 70760, Start Num: 35
Candidate Starts for EricMillard_122:
(18, 70239), (Start: 35 @70284 has 38 MA's), (125, 70602), (126, 70605), (133, 70641), (153, 70713),
(159, 70734),

Gene: Erik_51 Start: 36731, Stop: 36291, Start Num: 69
Candidate Starts for Erik_51:
(Start: 69 @36731 has 34 MA's), (Start: 95 @36629 has 3 MA's), (125, 36452), (133, 36413), (134,
36410), (136, 36401), (155, 36335),

Gene: Eris_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Eris_57:
(26, 38984), (Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Eros_58 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Eros_58:

(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Espica_51 Start: 36741, Stop: 36301, Start Num: 69

Candidate Starts for Espica_51:

(Start: 69 @36741 has 34 MA's), (Start: 95 @36639 has 3 MA's), (125, 36462), (133, 36423), (134, 36420), (136, 36411), (155, 36345),

Gene: Espresso_57 Start: 40763, Stop: 40287, Start Num: 30

Candidate Starts for Espresso_57:

(Start: 30 @40763 has 168 MA's), (133, 40436), (155, 40358), (177, 40319),

Gene: Et2Brutus_60 Start: 38905, Stop: 38408, Start Num: 32

Candidate Starts for Et2Brutus_60:

(Start: 32 @38905 has 14 MA's), (Start: 59 @38869 has 15 MA's), (Start: 80 @38827 has 3 MA's), (Start: 91 @38773 has 3 MA's), (Start: 100 @38734 has 1 MA's), (120, 38611), (127, 38569), (130, 38557), (170, 38422),

Gene: Euphoria_57 Start: 40039, Stop: 39566, Start Num: 30

Candidate Starts for Euphoria_57:

(Start: 30 @40039 has 168 MA's), (155, 39634),

Gene: Eurydice_59 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Eurydice_59:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: EvilGenius_63 Start: 41505, Stop: 41032, Start Num: 40

Candidate Starts for EvilGenius_63:

(Start: 40 @41505 has 121 MA's), (130, 41175),

Gene: Expelliarmus_61 Start: 39279, Stop: 38791, Start Num: 62

Candidate Starts for Expelliarmus_61:

(48, 39285), (Start: 62 @39279 has 38 MA's), (Start: 91 @39177 has 3 MA's), (104, 39117), (134, 38913), (155, 38838),

Gene: Eyeball_61 Start: 41486, Stop: 40992, Start Num: 30

Candidate Starts for Eyeball_61:

(Start: 30 @41486 has 168 MA's), (155, 41081), (177, 41042),

Gene: Fajezeel_60 Start: 40184, Stop: 39717, Start Num: 30

Candidate Starts for Fajezeel_60:

(22, 40196), (Start: 30 @40184 has 168 MA's), (77, 40136), (Start: 95 @40076 has 3 MA's), (Start: 98 @40058 has 1 MA's), (128, 39887), (133, 39866), (155, 39788), (177, 39749),

Gene: Fameo_62 Start: 40252, Stop: 39779, Start Num: 40

Candidate Starts for Fameo_62:

(Start: 23 @40276 has 1 MA's), (Start: 38 @40258 has 3 MA's), (Start: 40 @40252 has 121 MA's), (Start: 93 @40123 has 1 MA's), (130, 39922),

Gene: Familton_10 Start: 3151, Stop: 2666, Start Num: 71

Candidate Starts for Familton_10:

(Start: 71 @3151 has 29 MA's), (88, 3091), (123, 2878), (124, 2866), (167, 2707),

Gene: Farber_64 Start: 39611, Stop: 39135, Start Num: 31

Candidate Starts for Farber_64:

(Start: 25 @39617 has 23 MA's), (Start: 31 @39611 has 240 MA's), (Start: 80 @39536 has 3 MA's),
(153, 39179), (164, 39146),

Gene: Fascinus_55 Start: 40332, Stop: 39856, Start Num: 30

Candidate Starts for Fascinus_55:

(Start: 30 @40332 has 168 MA's), (155, 39927), (177, 39888),

Gene: Fayely_62 Start: 39727, Stop: 39263, Start Num: 40

Candidate Starts for Fayely_62:

(Start: 40 @39727 has 121 MA's), (130, 39412),

Gene: Fenn_62 Start: 42121, Stop: 41645, Start Num: 30

Candidate Starts for Fenn_62:

(Start: 30 @42121 has 168 MA's), (133, 41794), (155, 41716), (177, 41677),

Gene: Fernando_64 Start: 39621, Stop: 39145, Start Num: 31

Candidate Starts for Fernando_64:

(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's),
(153, 39189), (164, 39156),

Gene: Fibonacci_61 Start: 38911, Stop: 38414, Start Num: 32

Candidate Starts for Fibonacci_61:

(Start: 32 @38911 has 14 MA's), (Start: 59 @38875 has 15 MA's), (Start: 80 @38833 has 3 MA's),
(Start: 91 @38779 has 3 MA's), (Start: 100 @38740 has 1 MA's), (120, 38617), (127, 38575), (130,
38563), (170, 38428),

Gene: Fionnbharth_76 Start: 48594, Stop: 49094, Start Num: 42

Candidate Starts for Fionnbharth_76:

(Start: 42 @48594 has 4 MA's), (Start: 64 @48618 has 18 MA's), (Start: 70 @48630 has 1 MA's), (83,
48666), (90, 48702), (Start: 91 @48720 has 3 MA's), (Start: 95 @48738 has 3 MA's), (131, 48951),
(139, 48987), (142, 48990), (161, 49059), (172, 49083),

Gene: FireRed_21 Start: 12888, Stop: 13358, Start Num: 82

Candidate Starts for FireRed_21:

(Start: 62 @12843 has 38 MA's), (Start: 82 @12888 has 3 MA's), (121, 13140), (143, 13236),

Gene: Firecracker_10 Start: 3502, Stop: 3017, Start Num: 71

Candidate Starts for Firecracker_10:

(Start: 71 @3502 has 29 MA's), (88, 3442), (123, 3229), (124, 3217),

Gene: FiringLine_62 Start: 39902, Stop: 39429, Start Num: 40

Candidate Starts for FiringLine_62:

(Start: 23 @39926 has 1 MA's), (Start: 38 @39908 has 3 MA's), (Start: 40 @39902 has 121 MA's),
(Start: 93 @39773 has 1 MA's), (130, 39572),

Gene: First_0064 Start: 40175, Stop: 39702, Start Num: 40

Candidate Starts for First_0064:

(Start: 40 @40175 has 121 MA's), (Start: 93 @40046 has 1 MA's), (130, 39845),

Gene: Flare16_62 Start: 39594, Stop: 39121, Start Num: 40

Candidate Starts for Flare16_62:

(Start: 38 @39600 has 3 MA's), (Start: 40 @39594 has 121 MA's), (Start: 93 @39465 has 1 MA's), (116, 39354), (130, 39264),

Gene: Flaverint_62 Start: 39369, Stop: 38872, Start Num: 32

Candidate Starts for Flaverint_62:

(Start: 32 @39369 has 14 MA's), (Start: 59 @39333 has 15 MA's), (Start: 80 @39291 has 3 MA's), (Start: 100 @39198 has 1 MA's), (120, 39075), (127, 39033), (130, 39021), (170, 38886),

Gene: Florean_58 Start: 38977, Stop: 38507, Start Num: 31

Candidate Starts for Florean_58:

(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: Flux_58 Start: 38977, Stop: 38507, Start Num: 31

Candidate Starts for Flux_58:

(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: ForGetIt_59 Start: 39924, Stop: 39466, Start Num: 62

Candidate Starts for ForGetIt_59:

(Start: 62 @39924 has 38 MA's), (Start: 91 @39822 has 3 MA's), (104, 39762), (110, 39726), (134, 39585), (155, 39510), (165, 39480),

Gene: Forsytheast_58 Start: 39605, Stop: 39129, Start Num: 30

Candidate Starts for Forsytheast_58:

(Start: 30 @39605 has 168 MA's), (155, 39200), (177, 39161),

Gene: FoulBall_9 Start: 3151, Stop: 2666, Start Num: 71

Candidate Starts for FoulBall_9:

(Start: 71 @3151 has 29 MA's), (88, 3091), (123, 2878), (124, 2866), (167, 2707),

Gene: Francis47_58 Start: 41390, Stop: 40914, Start Num: 30

Candidate Starts for Francis47_58:

(19, 41420), (Start: 30 @41390 has 168 MA's), (155, 40985), (177, 40946),

Gene: Fred313_60 Start: 38975, Stop: 38514, Start Num: 31

Candidate Starts for Fred313_60:

(4, 39137), (6, 39098), (Start: 31 @38975 has 240 MA's), (87, 38891), (Start: 100 @38813 has 1 MA's), (104, 38792), (155, 38543), (160, 38525),

Gene: Froghopper_56 Start: 39110, Stop: 38598, Start Num: 20

Candidate Starts for Froghopper_56:

(Start: 20 @39110 has 2 MA's), (Start: 60 @39077 has 4 MA's), (Start: 91 @38972 has 3 MA's), (133, 38744), (155, 38666),

Gene: Funston_57 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Funston_57:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Fushigi_56 Start: 38866, Stop: 38390, Start Num: 30

Candidate Starts for Fushigi_56:

(Start: 30 @38866 has 168 MA's), (155, 38461), (177, 38422),

Gene: GMA6_50 Start: 43670, Stop: 43215, Start Num: 31

Candidate Starts for GMA6_50:

(Start: 31 @43670 has 240 MA's), (Start: 91 @43520 has 3 MA's), (119, 43364), (120, 43352), (121, 43346), (142, 43253), (151, 43220),

Gene: Gadost_58 Start: 38982, Stop: 38512, Start Num: 31

Candidate Starts for Gadost_58:

(Start: 31 @38982 has 240 MA's), (104, 38793),

Gene: GageAP_60 Start: 40954, Stop: 40466, Start Num: 30

Candidate Starts for GageAP_60:

(Start: 30 @40954 has 168 MA's), (Start: 91 @40840 has 3 MA's), (133, 40612), (155, 40534),

Gene: Gaia_88 Start: 51215, Stop: 51658, Start Num: 68

Candidate Starts for Gaia_88:

(Start: 68 @51215 has 3 MA's), (114, 51422), (134, 51533), (139, 51557), (148, 51587), (161, 51632),

Gene: Gail_63 Start: 40699, Stop: 40220, Start Num: 40

Candidate Starts for Gail_63:

(Start: 40 @40699 has 121 MA's), (118, 40429), (130, 40366), (140, 40321),

Gene: Gandalf20_62 Start: 42048, Stop: 41572, Start Num: 30

Candidate Starts for Gandalf20_62:

(Start: 30 @42048 has 168 MA's), (133, 41721), (155, 41643), (177, 41604),

Gene: Garak_65 Start: 39067, Stop: 38564, Start Num: 40

Candidate Starts for Garak_65:

(Start: 40 @39067 has 121 MA's), (Start: 43 @39064 has 18 MA's), (130, 38740),

Gene: GaugeLDP_59 Start: 39772, Stop: 39320, Start Num: 40

Candidate Starts for GaugeLDP_59:

(13, 39835), (24, 39793), (Start: 38 @39778 has 3 MA's), (Start: 40 @39772 has 121 MA's), (130, 39469), (143, 39418), (153, 39382),

Gene: Gemma_63 Start: 39503, Stop: 39027, Start Num: 31

Candidate Starts for Gemma_63:

(Start: 31 @39503 has 240 MA's), (147, 39089), (153, 39071), (164, 39038),

Gene: George_55 Start: 39399, Stop: 38935, Start Num: 56

Candidate Starts for George_55:

(Start: 43 @39414 has 18 MA's), (Start: 56 @39399 has 25 MA's), (Start: 91 @39291 has 3 MA's), (104, 39231), (134, 39054), (155, 38979), (165, 38949),

Gene: Georgie2_63 Start: 39947, Stop: 39474, Start Num: 40

Candidate Starts for Georgie2_63:

(Start: 23 @39971 has 1 MA's), (Start: 38 @39953 has 3 MA's), (Start: 40 @39947 has 121 MA's), (Start: 93 @39818 has 1 MA's), (130, 39617),

Gene: Ghouboy_60 Start: 40367, Stop: 39903, Start Num: 56

Candidate Starts for Ghouboy_60:

(Start: 43 @40382 has 18 MA's), (Start: 56 @40367 has 25 MA's), (Start: 91 @40259 has 3 MA's), (104, 40199), (134, 40022), (143, 39989), (155, 39947), (165, 39917),

Gene: Gilberta_62 Start: 39326, Stop: 38865, Start Num: 59

Candidate Starts for Gilberta_62:

(Start: 32 @39362 has 14 MA's), (Start: 59 @39326 has 15 MA's), (Start: 80 @39284 has 3 MA's),
(Start: 100 @39191 has 1 MA's), (120, 39068), (127, 39026), (130, 39014), (170, 38879),

Gene: GingkoMaracino_64 Start: 39507, Stop: 39031, Start Num: 31

Candidate Starts for GingkoMaracino_64:

(Start: 25 @39513 has 23 MA's), (Start: 31 @39507 has 240 MA's), (Start: 80 @39432 has 3 MA's),
(153, 39075), (164, 39042),

Gene: Giroux_61 Start: 39378, Stop: 38920, Start Num: 31

Candidate Starts for Giroux_61:

(4, 39540), (6, 39501), (Start: 31 @39378 has 240 MA's), (86, 39300), (87, 39297), (104, 39198), (155,
38949), (160, 38931),

Gene: Gladiator_61 Start: 38292, Stop: 37789, Start Num: 40

Candidate Starts for Gladiator_61:

(Start: 40 @38292 has 121 MA's), (Start: 43 @38289 has 18 MA's), (130, 37965),

Gene: Gollum_51 Start: 36797, Stop: 36357, Start Num: 69

Candidate Starts for Gollum_51:

(Start: 69 @36797 has 34 MA's), (Start: 95 @36695 has 3 MA's), (125, 36518), (133, 36479), (134,
36476), (136, 36467), (155, 36401),

Gene: Gompeii16_59 Start: 42474, Stop: 41980, Start Num: 30

Candidate Starts for Gompeii16_59:

(Start: 30 @42474 has 168 MA's), (155, 42069), (177, 42030),

Gene: Goose_59 Start: 38698, Stop: 38213, Start Num: 31

Candidate Starts for Goose_59:

(Start: 31 @38698 has 240 MA's), (104, 38506), (159, 38242), (160, 38239), (165, 38227),

Gene: Graduation_63 Start: 41787, Stop: 41299, Start Num: 30

Candidate Starts for Graduation_63:

(Start: 30 @41787 has 168 MA's), (Start: 91 @41673 has 3 MA's), (128, 41466), (133, 41445), (155,
41367),

Gene: GrecoEtereo_59 Start: 39952, Stop: 39476, Start Num: 30

Candidate Starts for GrecoEtereo_59:

(Start: 30 @39952 has 168 MA's), (Start: 54 @39949 has 1 MA's), (155, 39547), (177, 39508),

Gene: GreedyLawyer_61 Start: 38583, Stop: 38080, Start Num: 40

Candidate Starts for GreedyLawyer_61:

(Start: 40 @38583 has 121 MA's), (Start: 43 @38580 has 18 MA's), (130, 38256),

Gene: Greg_60 Start: 40184, Stop: 39717, Start Num: 30

Candidate Starts for Greg_60:

(22, 40196), (Start: 30 @40184 has 168 MA's), (77, 40136), (Start: 95 @40076 has 3 MA's), (Start: 98
@40058 has 1 MA's), (128, 39887), (133, 39866), (155, 39788), (177, 39749),

Gene: Grif_64 Start: 39696, Stop: 39220, Start Num: 31

Candidate Starts for Grif_64:

(Start: 25 @39702 has 23 MA's), (Start: 31 @39696 has 240 MA's), (Start: 80 @39621 has 3 MA's),
(153, 39264), (164, 39231),

Gene: Groundhog_63 Start: 39470, Stop: 38982, Start Num: 62
Candidate Starts for Groundhog_63:
(Start: 62 @39470 has 38 MA's), (Start: 91 @39368 has 3 MA's), (104, 39308), (134, 39104), (155, 39029),

Gene: Groupthink_65 Start: 39507, Stop: 39031, Start Num: 31
Candidate Starts for Groupthink_65:
(Start: 31 @39507 has 240 MA's), (147, 39093), (153, 39075), (164, 39042),

Gene: Grub_64 Start: 39619, Stop: 39137, Start Num: 25
Candidate Starts for Grub_64:
(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: Grum1_64 Start: 39627, Stop: 39145, Start Num: 25
Candidate Starts for Grum1_64:
(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's), (153, 39189), (164, 39156),

Gene: Gruunaga_64 Start: 38991, Stop: 38488, Start Num: 40
Candidate Starts for Gruunaga_64:
(Start: 40 @38991 has 121 MA's), (Start: 43 @38988 has 18 MA's), (130, 38664),

Gene: GtownJaz_64 Start: 39623, Stop: 39147, Start Num: 31
Candidate Starts for GtownJaz_64:
(Start: 25 @39629 has 23 MA's), (Start: 31 @39623 has 240 MA's), (Start: 80 @39548 has 3 MA's), (153, 39191), (164, 39158),

Gene: Gwendoluna_62 Start: 42178, Stop: 41837, Start Num: 98
Candidate Starts for Gwendoluna_62:
(Start: 30 @42304 has 168 MA's), (77, 42256), (Start: 95 @42196 has 3 MA's), (Start: 98 @42178 has 1 MA's), (128, 42007), (133, 41986), (155, 41908), (177, 41869),

Gene: Gyzlar_55 Start: 38257, Stop: 37790, Start Num: 30
Candidate Starts for Gyzlar_55:
(Start: 30 @38257 has 168 MA's), (77, 38209), (Start: 95 @38149 has 3 MA's), (Start: 98 @38131 has 1 MA's), (128, 37960), (133, 37939), (155, 37861), (177, 37822),

Gene: HINdeR_55 Start: 41083, Stop: 40607, Start Num: 33
Candidate Starts for HINdeR_55:
(Start: 33 @41083 has 9 MA's), (Start: 80 @41011 has 3 MA's), (Start: 100 @40918 has 1 MA's), (128, 40750), (136, 40714), (155, 40648), (159, 40633), (160, 40630),

Gene: Halley_132 Start: 72096, Stop: 72572, Start Num: 35
Candidate Starts for Halley_132:
(Start: 35 @72096 has 38 MA's), (125, 72414), (126, 72417), (133, 72453), (153, 72525), (159, 72546),

Gene: HamSlice_56 Start: 38976, Stop: 38506, Start Num: 31
Candidate Starts for HamSlice_56:
(Start: 31 @38976 has 240 MA's), (104, 38787),

Gene: Hammer_64 Start: 38595, Stop: 38095, Start Num: 43

Candidate Starts for Hammer_64:

(Start: 40 @38598 has 121 MA's), (Start: 43 @38595 has 18 MA's), (130, 38271),

Gene: HanShotFirst_61 Start: 42461, Stop: 41967, Start Num: 30

Candidate Starts for HanShotFirst_61:

(Start: 30 @42461 has 168 MA's), (155, 42056), (177, 42017),

Gene: Hannaconda_119 Start: 67166, Stop: 67480, Start Num: 100

Candidate Starts for Hannaconda_119:

(Start: 20 @66944 has 2 MA's), (Start: 35 @66980 has 38 MA's), (Start: 100 @67166 has 1 MA's), (120, 67289), (136, 67367), (139, 67382), (145, 67403), (150, 67421),

Gene: Happiness_57 Start: 38964, Stop: 38494, Start Num: 31

Candidate Starts for Happiness_57:

(18, 38997), (Start: 31 @38964 has 240 MA's), (104, 38775), (160, 38508),

Gene: Harella_20 Start: 12950, Stop: 13465, Start Num: 62

Candidate Starts for Harella_20:

(Start: 62 @12950 has 38 MA's), (Start: 82 @12995 has 3 MA's), (121, 13247), (143, 13343),

Gene: Harlequin_50 Start: 36583, Stop: 36143, Start Num: 69

Candidate Starts for Harlequin_50:

(Start: 69 @36583 has 34 MA's), (Start: 95 @36481 has 3 MA's), (125, 36304), (133, 36265), (134, 36262), (136, 36253), (155, 36187),

Gene: HarryHoudini_63 Start: 40037, Stop: 39558, Start Num: 40

Candidate Starts for HarryHoudini_63:

(Start: 38 @40043 has 3 MA's), (Start: 40 @40037 has 121 MA's), (Start: 93 @39908 has 1 MA's), (130, 39707), (170, 39572),

Gene: HarryOW_59 Start: 40618, Stop: 40124, Start Num: 30

Candidate Starts for HarryOW_59:

(Start: 30 @40618 has 168 MA's), (155, 40213), (177, 40174),

Gene: HashRod_65 Start: 39649, Stop: 39173, Start Num: 31

Candidate Starts for HashRod_65:

(Start: 25 @39655 has 23 MA's), (Start: 31 @39649 has 240 MA's), (Start: 80 @39574 has 3 MA's), (153, 39217), (164, 39184),

Gene: HaveUMetTed_65 Start: 39492, Stop: 39016, Start Num: 31

Candidate Starts for HaveUMetTed_65:

(Start: 31 @39492 has 240 MA's), (147, 39078), (153, 39060), (164, 39027),

Gene: Heathen_61 Start: 39073, Stop: 38612, Start Num: 31

Candidate Starts for Heathen_61:

(4, 39235), (6, 39196), (Start: 31 @39073 has 240 MA's), (87, 38989), (Start: 100 @38911 has 1 MA's), (104, 38890), (155, 38641), (160, 38623),

Gene: Heffalump_61 Start: 40720, Stop: 40247, Start Num: 40

Candidate Starts for Heffalump_61:

(Start: 23 @40744 has 1 MA's), (Start: 38 @40726 has 3 MA's), (Start: 40 @40720 has 121 MA's), (Start: 93 @40591 has 1 MA's), (130, 40390),

Gene: HelDan_61 Start: 39289, Stop: 38828, Start Num: 31
Candidate Starts for HelDan_61:
(4, 39451), (6, 39412), (Start: 31 @39289 has 240 MA's), (87, 39205), (Start: 100 @39127 has 1 MA's), (104, 39106), (155, 38857), (160, 38839),

Gene: Heliosoles_63 Start: 39510, Stop: 39034, Start Num: 31
Candidate Starts for Heliosoles_63:
(Start: 31 @39510 has 240 MA's), (147, 39096), (153, 39078), (164, 39045),

Gene: Helmet_65 Start: 39067, Stop: 38564, Start Num: 40
Candidate Starts for Helmet_65:
(Start: 40 @39067 has 121 MA's), (Start: 43 @39064 has 18 MA's), (130, 38740),

Gene: Herbertwm_59 Start: 39513, Stop: 39046, Start Num: 45
Candidate Starts for Herbertwm_59:
(Start: 45 @39513 has 2 MA's), (130, 39195),

Gene: Hercules11_64 Start: 39630, Stop: 39154, Start Num: 31
Candidate Starts for Hercules11_64:
(Start: 25 @39636 has 23 MA's), (Start: 31 @39630 has 240 MA's), (Start: 80 @39555 has 3 MA's), (153, 39198), (164, 39165),

Gene: Hermia_57 Start: 40625, Stop: 40149, Start Num: 30
Candidate Starts for Hermia_57:
(Start: 30 @40625 has 168 MA's), (155, 40220), (177, 40181),

Gene: HermioneGrange_61 Start: 41528, Stop: 41019, Start Num: 30
Candidate Starts for HermioneGrange_61:
(Start: 30 @41528 has 168 MA's), (Start: 91 @41414 has 3 MA's), (133, 41186), (155, 41108), (177, 41069),

Gene: Hexamo_64 Start: 38697, Stop: 38194, Start Num: 40
Candidate Starts for Hexamo_64:
(Start: 40 @38697 has 121 MA's), (Start: 43 @38694 has 18 MA's), (130, 38370),

Gene: Hiro_51 Start: 37059, Stop: 36619, Start Num: 69
Candidate Starts for Hiro_51:
(Start: 69 @37059 has 34 MA's), (Start: 95 @36957 has 3 MA's), (125, 36780), (133, 36741), (134, 36738), (136, 36729), (155, 36663),

Gene: HokkenD_120 Start: 70459, Stop: 70935, Start Num: 35
Candidate Starts for HokkenD_120:
(18, 70414), (Start: 35 @70459 has 38 MA's), (125, 70777), (126, 70780), (133, 70816), (153, 70888), (159, 70909),

Gene: Holli_57 Start: 38768, Stop: 38298, Start Num: 31
Candidate Starts for Holli_57:
(Start: 31 @38768 has 240 MA's), (104, 38579),

Gene: Homines_51 Start: 36156, Stop: 35689, Start Num: 30
Candidate Starts for Homines_51:
(Start: 30 @36156 has 168 MA's), (133, 35835), (155, 35757),

Gene: Hookmount_60 Start: 39339, Stop: 38881, Start Num: 31
Candidate Starts for Hookmount_60:
(Start: 31 @39339 has 240 MA's), (86, 39261), (87, 39258), (104, 39159), (126, 39024), (153, 38916),
(160, 38892),

Gene: Hoot_58 Start: 36431, Stop: 35931, Start Num: 43
Candidate Starts for Hoot_58:
(Start: 40 @36434 has 121 MA's), (Start: 43 @36431 has 18 MA's), (130, 36107),

Gene: Hope4ever_61 Start: 40934, Stop: 40458, Start Num: 30
Candidate Starts for Hope4ever_61:
(Start: 30 @40934 has 168 MA's), (155, 40529), (177, 40490),

Gene: Hopey_23 Start: 13092, Stop: 13607, Start Num: 62
Candidate Starts for Hopey_23:
(Start: 62 @13092 has 38 MA's), (Start: 82 @13137 has 3 MA's), (121, 13389), (143, 13485),

Gene: HortumSL17_64 Start: 40037, Stop: 39573, Start Num: 40
Candidate Starts for HortumSL17_64:
(Start: 40 @40037 has 121 MA's), (121, 39770), (126, 39743), (130, 39722), (153, 39635),

Gene: Houdini22_58 Start: 38982, Stop: 38512, Start Num: 31
Candidate Starts for Houdini22_58:
(Start: 31 @38982 has 240 MA's), (104, 38793),

Gene: HufflyPuff_20 Start: 12799, Stop: 13314, Start Num: 62
Candidate Starts for HufflyPuff_20:
(Start: 62 @12799 has 38 MA's), (Start: 82 @12844 has 3 MA's), (121, 13096), (143, 13192),

Gene: Hughesyang_130 Start: 71821, Stop: 72297, Start Num: 35
Candidate Starts for Hughesyang_130:
(18, 71776), (Start: 35 @71821 has 38 MA's), (125, 72139), (126, 72142), (133, 72178), (153, 72250),
(159, 72271),

Gene: HuhtaEnerson15_57 Start: 39393, Stop: 38935, Start Num: 62
Candidate Starts for HuhtaEnerson15_57:
(Start: 62 @39393 has 38 MA's), (Start: 91 @39291 has 3 MA's), (104, 39231), (134, 39054), (155,
38979), (165, 38949),

Gene: Hutc2_60 Start: 38911, Stop: 38414, Start Num: 32
Candidate Starts for Hutc2_60:
(Start: 32 @38911 has 14 MA's), (Start: 59 @38875 has 15 MA's), (Start: 80 @38833 has 3 MA's),
(Start: 91 @38779 has 3 MA's), (Start: 100 @38740 has 1 MA's), (120, 38617), (127, 38575), (130,
38563), (170, 38428),

Gene: ICleared_58 Start: 39007, Stop: 38537, Start Num: 31
Candidate Starts for ICleared_58:
(Start: 31 @39007 has 240 MA's), (104, 38818),

Gene: ILeeKay_62 Start: 40792, Stop: 40316, Start Num: 51
Candidate Starts for ILeeKay_62:
(Start: 51 @40792 has 18 MA's), (155, 40387), (177, 40348),

Gene: Iceman_58 Start: 39264, Stop: 38794, Start Num: 31

Candidate Starts for Iceman_58:

(Start: 31 @39264 has 240 MA's), (104, 39075),

Gene: Ichabod_63 Start: 41655, Stop: 41167, Start Num: 30

Candidate Starts for Ichabod_63:

(Start: 30 @41655 has 168 MA's), (Start: 91 @41541 has 3 MA's), (133, 41313), (155, 41235), (178, 41172),

Gene: Idergollasper_9 Start: 3151, Stop: 2666, Start Num: 71

Candidate Starts for Idergollasper_9:

(Start: 71 @3151 has 29 MA's), (88, 3091), (123, 2878), (124, 2866), (167, 2707),

Gene: Idleandcovert_61 Start: 39379, Stop: 38921, Start Num: 31

Candidate Starts for Idleandcovert_61:

(4, 39541), (6, 39502), (Start: 31 @39379 has 240 MA's), (86, 39301), (87, 39298), (104, 39199), (155, 38950), (160, 38932),

Gene: IgnatiusPatJac_59 Start: 40122, Stop: 39781, Start Num: 98

Candidate Starts for IgnatiusPatJac_59:

(Start: 30 @40248 has 168 MA's), (77, 40200), (Start: 95 @40140 has 3 MA's), (Start: 98 @40122 has 1 MA's), (128, 39951), (133, 39930), (155, 39852), (177, 39813),

Gene: Indra_67 Start: 39068, Stop: 38565, Start Num: 40

Candidate Starts for Indra_67:

(Start: 40 @39068 has 121 MA's), (Start: 43 @39065 has 18 MA's), (130, 38741),

Gene: Insomnia_60 Start: 39422, Stop: 38925, Start Num: 32

Candidate Starts for Insomnia_60:

(Start: 32 @39422 has 14 MA's), (Start: 59 @39386 has 15 MA's), (Start: 80 @39344 has 3 MA's), (Start: 91 @39290 has 3 MA's), (Start: 100 @39251 has 1 MA's), (120, 39128), (127, 39086), (130, 39074), (170, 38939),

Gene: Iracema64_59 Start: 39242, Stop: 38772, Start Num: 31

Candidate Starts for Iracema64_59:

(Start: 31 @39242 has 240 MA's), (104, 39053),

Gene: IronMan_61 Start: 40727, Stop: 40263, Start Num: 40

Candidate Starts for IronMan_61:

(Start: 38 @40733 has 3 MA's), (Start: 40 @40727 has 121 MA's), (130, 40412),

Gene: Isca_60 Start: 38838, Stop: 38380, Start Num: 31

Candidate Starts for Isca_60:

(Start: 31 @38838 has 240 MA's), (86, 38760), (87, 38757), (Start: 100 @38679 has 1 MA's), (104, 38658), (136, 38475), (155, 38409), (160, 38391),

Gene: Isiphiwo_61 Start: 38147, Stop: 37647, Start Num: 43

Candidate Starts for Isiphiwo_61:

(Start: 40 @38150 has 121 MA's), (Start: 43 @38147 has 18 MA's), (130, 37823),

Gene: Iwokeuplikedis_64 Start: 39742, Stop: 39266, Start Num: 40

Candidate Starts for Iwokeuplikedis_64:

(Start: 38 @39748 has 3 MA's), (Start: 40 @39742 has 121 MA's), (Start: 93 @39610 has 1 MA's), (130, 39409), (153, 39322), (168, 39277),

Gene: JC27_62 Start: 40972, Stop: 40499, Start Num: 30

Candidate Starts for JC27_62:

(Start: 30 @40972 has 168 MA's), (155, 40567), (177, 40528),

Gene: JF1_76 Start: 48583, Stop: 49059, Start Num: 64

Candidate Starts for JF1_76:

(Start: 42 @48559 has 4 MA's), (Start: 64 @48583 has 18 MA's), (Start: 70 @48595 has 1 MA's), (83, 48631), (90, 48667), (Start: 91 @48685 has 3 MA's), (Start: 95 @48703 has 3 MA's), (120, 48847), (121, 48853), (131, 48916), (139, 48952), (142, 48955), (161, 49024), (172, 49048),

Gene: JF2_59 Start: 37539, Stop: 37081, Start Num: 31

Candidate Starts for JF2_59:

(Start: 31 @37539 has 240 MA's), (86, 37461), (87, 37458), (Start: 100 @37380 has 1 MA's), (104, 37359), (136, 37176), (155, 37110), (160, 37092),

Gene: JF4_59 Start: 37539, Stop: 37081, Start Num: 31

Candidate Starts for JF4_59:

(Start: 31 @37539 has 240 MA's), (86, 37461), (87, 37458), (Start: 100 @37380 has 1 MA's), (104, 37359), (136, 37176), (155, 37110), (160, 37092),

Gene: JHC117_62 Start: 39620, Stop: 39144, Start Num: 31

Candidate Starts for JHC117_62:

(Start: 25 @39626 has 23 MA's), (Start: 31 @39620 has 240 MA's), (Start: 80 @39545 has 3 MA's), (153, 39188), (164, 39155),

Gene: JSwag_69 Start: 39645, Stop: 39277, Start Num: 89

Candidate Starts for JSwag_69:

(22, 39753), (Start: 33 @39735 has 9 MA's), (Start: 89 @39645 has 12 MA's), (125, 39435), (157, 39309), (164, 39291),

Gene: Jaan_62 Start: 40899, Stop: 40423, Start Num: 40

Candidate Starts for Jaan_62:

(Start: 38 @40905 has 3 MA's), (Start: 40 @40899 has 121 MA's), (Start: 93 @40773 has 1 MA's), (130, 40572),

Gene: Jabiru_60 Start: 39948, Stop: 39484, Start Num: 56

Candidate Starts for Jabiru_60:

(Start: 43 @39963 has 18 MA's), (Start: 56 @39948 has 25 MA's), (Start: 91 @39840 has 3 MA's), (104, 39780), (134, 39603), (165, 39498),

Gene: Jabith_62 Start: 39423, Stop: 38926, Start Num: 32

Candidate Starts for Jabith_62:

(Start: 32 @39423 has 14 MA's), (Start: 59 @39387 has 15 MA's), (Start: 80 @39345 has 3 MA's), (Start: 91 @39291 has 3 MA's), (Start: 100 @39252 has 1 MA's), (120, 39129), (127, 39087), (130, 39075), (170, 38940),

Gene: JackSparrow_62 Start: 40844, Stop: 40368, Start Num: 30

Candidate Starts for JackSparrow_62:

(Start: 30 @40844 has 168 MA's), (155, 40439), (177, 40400),

Gene: JangDynasty_9 Start: 3240, Stop: 2755, Start Num: 71
Candidate Starts for JangDynasty_9:
(Start: 71 @3240 has 29 MA's), (88, 3180), (123, 2967), (124, 2955), (167, 2796),

Gene: Jasper_60 Start: 39501, Stop: 39013, Start Num: 30
Candidate Starts for Jasper_60:
(Start: 30 @39501 has 168 MA's), (Start: 91 @39387 has 3 MA's), (133, 39159), (155, 39081),

Gene: Jaykayelowell_56 Start: 38971, Stop: 38501, Start Num: 31
Candidate Starts for Jaykayelowell_56:
(Start: 31 @38971 has 240 MA's), (104, 38782),

Gene: Jeeves_65 Start: 39660, Stop: 39199, Start Num: 59
Candidate Starts for Jeeves_65:
(Start: 23 @39705 has 1 MA's), (Start: 40 @39681 has 121 MA's), (Start: 59 @39660 has 15 MA's),
(118, 39408), (130, 39345), (140, 39300),

Gene: Jeffabunny_64 Start: 38694, Stop: 38191, Start Num: 40
Candidate Starts for Jeffabunny_64:
(Start: 40 @38694 has 121 MA's), (Start: 43 @38691 has 18 MA's), (130, 38367),

Gene: JenCasNa_65 Start: 39627, Stop: 39145, Start Num: 25
Candidate Starts for JenCasNa_65:
(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's),
(153, 39189), (164, 39156),

Gene: JeppNRM_65 Start: 39508, Stop: 39032, Start Num: 31
Candidate Starts for JeppNRM_65:
(Start: 31 @39508 has 240 MA's), (147, 39094), (153, 39076), (164, 39043),

Gene: Jerm_64 Start: 40334, Stop: 39837, Start Num: 23
Candidate Starts for Jerm_64:
(Start: 23 @40334 has 1 MA's), (Start: 38 @40316 has 3 MA's), (Start: 40 @40310 has 121 MA's),
(Start: 93 @40181 has 1 MA's), (130, 39980),

Gene: Jerm2_61 Start: 41783, Stop: 41274, Start Num: 30
Candidate Starts for Jerm2_61:
(Start: 30 @41783 has 168 MA's), (Start: 91 @41669 has 3 MA's), (133, 41441), (155, 41363), (177,
41324),

Gene: Jester_50 Start: 36514, Stop: 36074, Start Num: 69
Candidate Starts for Jester_50:
(Start: 69 @36514 has 34 MA's), (Start: 95 @36412 has 3 MA's), (125, 36235), (133, 36196), (134,
36193), (136, 36184), (155, 36118),

Gene: JetBlade_58 Start: 38972, Stop: 38502, Start Num: 31
Candidate Starts for JetBlade_58:
(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: JewelBug_63 Start: 38855, Stop: 38352, Start Num: 40
Candidate Starts for JewelBug_63:
(Start: 40 @38855 has 121 MA's), (Start: 43 @38852 has 18 MA's), (130, 38528),

Gene: Jflix2_97 Start: 55540, Stop: 56004, Start Num: 52

Candidate Starts for Jflix2_97:

(Start: 52 @55540 has 1 MA's), (78, 55591), (Start: 91 @55654 has 3 MA's), (131, 55858), (138, 55891), (139, 55894), (153, 55939),

Gene: Jobu08_62 Start: 39459, Stop: 38977, Start Num: 25

Candidate Starts for Jobu08_62:

(Start: 25 @39459 has 23 MA's), (Start: 31 @39453 has 240 MA's), (Start: 80 @39378 has 3 MA's), (153, 39021), (164, 38988),

Gene: JonJames_144 Start: 81140, Stop: 81580, Start Num: 71

Candidate Starts for JonJames_144:

(Start: 71 @81140 has 29 MA's), (105, 81287), (121, 81389), (133, 81461), (134, 81464), (155, 81539), (157, 81548), (166, 81575),

Gene: JoongJeon_57 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for JoongJeon_57:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Jordennis_62 Start: 38336, Stop: 37833, Start Num: 40

Candidate Starts for Jordennis_62:

(Start: 40 @38336 has 121 MA's), (Start: 43 @38333 has 18 MA's), (130, 38009),

Gene: Jorgensen_60 Start: 40253, Stop: 39777, Start Num: 30

Candidate Starts for Jorgensen_60:

(Start: 30 @40253 has 168 MA's), (155, 39848), (177, 39809),

Gene: Joselito_62 Start: 39371, Stop: 38874, Start Num: 32

Candidate Starts for Joselito_62:

(Start: 32 @39371 has 14 MA's), (Start: 59 @39335 has 15 MA's), (Start: 80 @39293 has 3 MA's), (Start: 91 @39239 has 3 MA's), (Start: 100 @39200 has 1 MA's), (120, 39077), (127, 39035), (130, 39023), (170, 38888),

Gene: JoshKayV_64 Start: 40374, Stop: 39901, Start Num: 40

Candidate Starts for JoshKayV_64:

(Start: 23 @40398 has 1 MA's), (Start: 38 @40380 has 3 MA's), (Start: 40 @40374 has 121 MA's), (Start: 93 @40245 has 1 MA's), (130, 40044),

Gene: Journey13_56 Start: 38287, Stop: 37796, Start Num: 33

Candidate Starts for Journey13_56:

(Start: 33 @38287 has 9 MA's), (130, 37945),

Gene: Jovo_59 Start: 40180, Stop: 39722, Start Num: 62

Candidate Starts for Jovo_59:

(Start: 62 @40180 has 38 MA's), (Start: 91 @40078 has 3 MA's), (104, 40018), (110, 39982), (134, 39841), (155, 39766), (165, 39736),

Gene: Jsquared_62 Start: 39264, Stop: 38770, Start Num: 32

Candidate Starts for Jsquared_62:

(Start: 32 @39264 has 14 MA's), (Start: 59 @39228 has 15 MA's), (96, 39108), (130, 38916), (149, 38844),

Gene: JuicyJay_127 Start: 73333, Stop: 73812, Start Num: 35

Candidate Starts for JuicyJay_127:

(Start: 35 @73333 has 38 MA's), (114, 73576), (120, 73618), (131, 73675), (139, 73711),

Gene: JuliaChild_61 Start: 41268, Stop: 40759, Start Num: 30

Candidate Starts for JuliaChild_61:

(Start: 30 @41268 has 168 MA's), (Start: 91 @41154 has 3 MA's), (133, 40926), (155, 40848), (177, 40809),

Gene: Juliette_78 Start: 48681, Stop: 49157, Start Num: 64

Candidate Starts for Juliette_78:

(Start: 42 @48657 has 4 MA's), (Start: 64 @48681 has 18 MA's), (Start: 70 @48693 has 1 MA's), (83, 48729), (90, 48765), (Start: 91 @48783 has 3 MA's), (Start: 95 @48801 has 3 MA's), (120, 48945), (121, 48951), (131, 49014), (139, 49050), (142, 49053), (161, 49122), (172, 49146),

Gene: KADY_64 Start: 39655, Stop: 39173, Start Num: 25

Candidate Starts for KADY_64:

(Start: 25 @39655 has 23 MA's), (Start: 31 @39649 has 240 MA's), (153, 39217), (164, 39184),

Gene: KBG_60 Start: 42235, Stop: 41759, Start Num: 51

Candidate Starts for KBG_60:

(Start: 51 @42235 has 18 MA's), (155, 41830), (177, 41791),

Gene: KFPoly_57 Start: 38972, Stop: 38502, Start Num: 31

Candidate Starts for KFPoly_57:

(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: KSSJEB_59 Start: 39920, Stop: 39441, Start Num: 60

Candidate Starts for KSSJEB_59:

(Start: 20 @39953 has 2 MA's), (Start: 60 @39920 has 4 MA's), (Start: 91 @39815 has 3 MA's), (133, 39587), (155, 39509),

Gene: Kalah2_121 Start: 70627, Stop: 71103, Start Num: 35

Candidate Starts for Kalah2_121:

(Start: 35 @70627 has 38 MA's), (125, 70945), (126, 70948), (133, 70984), (153, 71056), (159, 71077),

Gene: Kalb97_65 Start: 39506, Stop: 39030, Start Num: 31

Candidate Starts for Kalb97_65:

(Start: 31 @39506 has 240 MA's), (147, 39092), (153, 39074), (164, 39041),

Gene: Kalnoky_65 Start: 39504, Stop: 39028, Start Num: 31

Candidate Starts for Kalnoky_65:

(Start: 31 @39504 has 240 MA's), (147, 39090), (153, 39072), (164, 39039),

Gene: Kalpine_60 Start: 40011, Stop: 39547, Start Num: 40

Candidate Starts for Kalpine_60:

(Start: 38 @40017 has 3 MA's), (Start: 40 @40011 has 121 MA's), (130, 39690),

Gene: Kampy_57 Start: 38980, Stop: 38510, Start Num: 31

Candidate Starts for Kampy_57:

(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Kanely_61 Start: 40832, Stop: 40356, Start Num: 30

Candidate Starts for Kanely_61:

(12, 40886), (Start: 30 @40832 has 168 MA's), (155, 40427), (177, 40388),

Gene: KashFlow_124 Start: 68762, Stop: 69262, Start Num: 35

Candidate Starts for KashFlow_124:

(Start: 20 @68726 has 2 MA's), (Start: 35 @68762 has 38 MA's), (Start: 100 @68948 has 1 MA's), (120, 69071), (136, 69149), (139, 69164), (145, 69185), (150, 69203),

Gene: Katalie136_56 Start: 38803, Stop: 38333, Start Num: 31

Candidate Starts for Katalie136_56:

(26, 38809), (Start: 31 @38803 has 240 MA's), (104, 38614), (160, 38347),

Gene: KatherineG_70 Start: 40208, Stop: 39750, Start Num: 33

Candidate Starts for KatherineG_70:

(22, 40226), (Start: 33 @40208 has 9 MA's), (Start: 89 @40118 has 12 MA's), (125, 39908), (157, 39782), (164, 39764),

Gene: Kazan_64 Start: 38589, Stop: 38086, Start Num: 40

Candidate Starts for Kazan_64:

(Start: 40 @38589 has 121 MA's), (Start: 43 @38586 has 18 MA's), (130, 38262),

Gene: Keelan_108 Start: 53763, Stop: 54188, Start Num: 51

Candidate Starts for Keelan_108:

(46, 53757), (Start: 51 @53763 has 18 MA's), (124, 54063), (142, 54132), (156, 54180),

Gene: Kenmech_64 Start: 42479, Stop: 42003, Start Num: 30

Candidate Starts for Kenmech_64:

(Start: 30 @42479 has 168 MA's), (155, 42074), (177, 42035),

Gene: Kerberos_63 Start: 39533, Stop: 39114, Start Num: 80

Candidate Starts for Kerberos_63:

(Start: 31 @39611 has 240 MA's), (Start: 59 @39575 has 15 MA's), (Start: 80 @39533 has 3 MA's), (86, 39521), (130, 39263), (140, 39218),

Gene: Keziacharles14_63 Start: 41109, Stop: 40636, Start Num: 40

Candidate Starts for Keziacharles14_63:

(Start: 40 @41109 has 121 MA's), (125, 40809), (130, 40785), (155, 40692),

Gene: Killigrew_59 Start: 41027, Stop: 40536, Start Num: 30

Candidate Starts for Killigrew_59:

(Start: 30 @41027 has 168 MA's), (155, 40622), (177, 40583),

Gene: Kimona_56 Start: 37464, Stop: 36982, Start Num: 31

Candidate Starts for Kimona_56:

(1, 38073), (9, 37527), (Start: 31 @37464 has 240 MA's), (Start: 42 @37443 has 4 MA's), (103, 37275), (104, 37272), (105, 37266), (127, 37128),

Gene: KingCyrus_63 Start: 41500, Stop: 41027, Start Num: 40

Candidate Starts for KingCyrus_63:

(Start: 40 @41500 has 121 MA's), (130, 41170),

Gene: Kingmustik0402_58 Start: 38967, Stop: 38497, Start Num: 31

Candidate Starts for Kingmustik0402_58:

(Start: 31 @38967 has 240 MA's), (104, 38778),

Gene: Kipper29_63 Start: 38602, Stop: 38099, Start Num: 40

Candidate Starts for Kipper29_63:

(Start: 40 @38602 has 121 MA's), (Start: 43 @38599 has 18 MA's), (130, 38275),

Gene: KittenMittens_56 Start: 38137, Stop: 37652, Start Num: 31

Candidate Starts for KittenMittens_56:

(9, 38203), (Start: 31 @38137 has 240 MA's), (104, 37945), (158, 37684), (165, 37666),

Gene: Klein_127 Start: 69017, Stop: 69493, Start Num: 35

Candidate Starts for Klein_127:

(18, 68972), (Start: 35 @69017 has 38 MA's), (125, 69335), (126, 69338), (133, 69374), (153, 69446), (159, 69467),

Gene: Koduck_62 Start: 39165, Stop: 38707, Start Num: 59

Candidate Starts for Koduck_62:

(Start: 32 @39201 has 14 MA's), (Start: 59 @39165 has 15 MA's), (127, 38865), (130, 38853),

Gene: Koko_64 Start: 38904, Stop: 38476, Start Num: 68

Candidate Starts for Koko_64:

(Start: 68 @38904 has 3 MA's), (Start: 76 @38886 has 1 MA's), (Start: 100 @38763 has 1 MA's), (117, 38658), (122, 38598), (129, 38568), (140, 38523), (142, 38520), (147, 38499),

Gene: Koko_66 Start: 39549, Stop: 39049, Start Num: 43

Candidate Starts for Koko_66:

(Start: 40 @39552 has 121 MA's), (Start: 43 @39549 has 18 MA's), (130, 39225),

Gene: Koreni_57 Start: 38659, Stop: 38189, Start Num: 31

Candidate Starts for Koreni_57:

(Start: 31 @38659 has 240 MA's), (104, 38470),

Gene: Kratak_57 Start: 38973, Stop: 38503, Start Num: 31

Candidate Starts for Kratak_57:

(Start: 31 @38973 has 240 MA's), (104, 38784), (160, 38517),

Gene: Kremtemulon_55 Start: 38926, Stop: 38456, Start Num: 31

Candidate Starts for Kremtemulon_55:

(Start: 31 @38926 has 240 MA's), (104, 38737),

Gene: Krili_10 Start: 3334, Stop: 2714, Start Num: 71

Candidate Starts for Krili_10:

(Start: 71 @3334 has 29 MA's), (88, 3274), (123, 3061), (124, 3049), (174, 2872), (176, 2848), (180, 2773),

Gene: Krishelle_51 Start: 37066, Stop: 36728, Start Num: 95

Candidate Starts for Krishelle_51:

(Start: 69 @37168 has 34 MA's), (Start: 95 @37066 has 3 MA's), (125, 36889), (133, 36850), (134, 36847), (136, 36838), (155, 36772),

Gene: Kristoff_58 Start: 39273, Stop: 38788, Start Num: 31

Candidate Starts for Kristoff_58:

(9, 39339), (Start: 31 @39273 has 240 MA's), (104, 39081), (153, 38838), (159, 38817), (160, 38814), (165, 38802),

Gene: Kugel_59 Start: 41080, Stop: 40604, Start Num: 30
Candidate Starts for Kugel_59:
(Start: 30 @41080 has 168 MA's), (155, 40675), (177, 40636),

Gene: KyMonks1A_62 Start: 40498, Stop: 40019, Start Num: 60
Candidate Starts for KyMonks1A_62:
(Start: 20 @40531 has 2 MA's), (Start: 60 @40498 has 4 MA's), (Start: 91 @40393 has 3 MA's), (133, 40165), (155, 40087),

Gene: Kyee_58 Start: 38976, Stop: 38506, Start Num: 31
Candidate Starts for Kyee_58:
(Start: 31 @38976 has 240 MA's), (104, 38787),

Gene: Kykar_60 Start: 41045, Stop: 40566, Start Num: 30
Candidate Starts for Kykar_60:
(Start: 30 @41045 has 168 MA's), (155, 40640), (177, 40601),

Gene: L5_59 Start: 39288, Stop: 38794, Start Num: 32
Candidate Starts for L5_59:
(Start: 32 @39288 has 14 MA's), (Start: 59 @39252 has 15 MA's), (127, 38952), (130, 38940),

Gene: LBerry_65 Start: 39631, Stop: 39149, Start Num: 25
Candidate Starts for LBerry_65:
(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's), (153, 39193), (164, 39160),

Gene: LHTSCC_60 Start: 39381, Stop: 38911, Start Num: 31
Candidate Starts for LHTSCC_60:
(18, 39414), (Start: 31 @39381 has 240 MA's), (104, 39192), (160, 38925),

Gene: LadyBird_67 Start: 40754, Stop: 40281, Start Num: 40
Candidate Starts for LadyBird_67:
(Start: 40 @40754 has 121 MA's), (Start: 93 @40625 has 1 MA's), (130, 40424),

Gene: Lambert1_60 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for Lambert1_60:
(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (133, 38987), (153, 38915), (160, 38891),

Gene: Lamina13_63 Start: 41833, Stop: 41354, Start Num: 30
Candidate Starts for Lamina13_63:
(Start: 30 @41833 has 168 MA's), (155, 41428), (177, 41389),

Gene: Landor_61 Start: 40805, Stop: 40341, Start Num: 40
Candidate Starts for Landor_61:
(Start: 38 @40811 has 3 MA's), (Start: 40 @40805 has 121 MA's), (130, 40490),

Gene: LappelDuVide_56 Start: 38977, Stop: 38507, Start Num: 31
Candidate Starts for LappelDuVide_56:
(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: Larenn_60 Start: 39871, Stop: 39398, Start Num: 40
Candidate Starts for Larenn_60:
(Start: 38 @39877 has 3 MA's), (Start: 40 @39871 has 121 MA's), (Start: 93 @39742 has 1 MA's),
(130, 39541),

Gene: LarryKay_64 Start: 39651, Stop: 39175, Start Num: 31
Candidate Starts for LarryKay_64:
(Start: 25 @39657 has 23 MA's), (Start: 31 @39651 has 240 MA's), (Start: 80 @39576 has 3 MA's),
(153, 39219), (164, 39186),

Gene: LastResort_68 Start: 39697, Stop: 39329, Start Num: 89
Candidate Starts for LastResort_68:
(22, 39805), (Start: 33 @39787 has 9 MA's), (Start: 89 @39697 has 12 MA's), (125, 39487), (157,
39361), (164, 39343),

Gene: Lemur_58 Start: 38975, Stop: 38505, Start Num: 31
Candidate Starts for Lemur_58:
(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: LeoAvram_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for LeoAvram_57:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Leogania_62 Start: 40683, Stop: 40222, Start Num: 40
Candidate Starts for Leogania_62:
(Start: 40 @40683 has 121 MA's), (130, 40365), (153, 40278),

Gene: Lesedi_55 Start: 38817, Stop: 38341, Start Num: 30
Candidate Starts for Lesedi_55:
(Start: 30 @38817 has 168 MA's), (155, 38412), (177, 38373),

Gene: Lev2_59 Start: 39812, Stop: 39354, Start Num: 62
Candidate Starts for Lev2_59:
(Start: 62 @39812 has 38 MA's), (Start: 91 @39710 has 3 MA's), (104, 39650), (110, 39614), (134,
39473), (155, 39398), (165, 39368),

Gene: Leviathan_64 Start: 40367, Stop: 39894, Start Num: 40
Candidate Starts for Leviathan_64:
(Start: 40 @40367 has 121 MA's), (Start: 93 @40238 has 1 MA's), (130, 40037),

Gene: Licorice_61 Start: 42319, Stop: 41828, Start Num: 30
Candidate Starts for Licorice_61:
(Start: 30 @42319 has 168 MA's), (155, 41914), (177, 41875),

Gene: LilBib_59 Start: 41629, Stop: 41150, Start Num: 60
Candidate Starts for LilBib_59:
(Start: 20 @41662 has 2 MA's), (Start: 60 @41629 has 4 MA's), (Start: 91 @41524 has 3 MA's), (133,
41296), (155, 41218),

Gene: LilTurb_63 Start: 40192, Stop: 39719, Start Num: 40
Candidate Starts for LilTurb_63:

(Start: 23 @40216 has 1 MA's), (Start: 38 @40198 has 3 MA's), (Start: 40 @40192 has 121 MA's), (Start: 93 @40063 has 1 MA's), (130, 39862),

Gene: Lilith_64 Start: 39620, Stop: 39138, Start Num: 25

Candidate Starts for Lilith_64:

(Start: 25 @39620 has 23 MA's), (Start: 31 @39614 has 240 MA's), (Start: 80 @39539 has 3 MA's), (153, 39182), (164, 39149),

Gene: Lillie_51 Start: 36799, Stop: 36359, Start Num: 69

Candidate Starts for Lillie_51:

(Start: 69 @36799 has 34 MA's), (Start: 95 @36697 has 3 MA's), (125, 36520), (133, 36481), (134, 36478), (136, 36469), (155, 36403),

Gene: LittleB_58 Start: 38979, Stop: 38509, Start Num: 31

Candidate Starts for LittleB_58:

(Start: 31 @38979 has 240 MA's), (104, 38790),

Gene: LittleCherry_57 Start: 39419, Stop: 38955, Start Num: 56

Candidate Starts for LittleCherry_57:

(Start: 43 @39434 has 18 MA's), (Start: 56 @39419 has 25 MA's), (Start: 91 @39311 has 3 MA's), (104, 39251), (134, 39074), (155, 38999), (165, 38969),

Gene: LittleE_131 Start: 70513, Stop: 70995, Start Num: 35

Candidate Starts for LittleE_131:

(Start: 20 @70477 has 2 MA's), (Start: 35 @70513 has 38 MA's), (120, 70807), (125, 70837), (126, 70840), (133, 70876),

Gene: LittleGuy_58 Start: 38874, Stop: 38404, Start Num: 31

Candidate Starts for LittleGuy_58:

(10, 38937), (Start: 31 @38874 has 240 MA's), (104, 38685),

Gene: LochMonster_59 Start: 39214, Stop: 38744, Start Num: 31

Candidate Starts for LochMonster_59:

(Start: 31 @39214 has 240 MA's), (104, 39025),

Gene: Lockley_57 Start: 39907, Stop: 39419, Start Num: 30

Candidate Starts for Lockley_57:

(Start: 30 @39907 has 168 MA's), (Start: 91 @39793 has 3 MA's), (118, 39640), (133, 39565), (155, 39487),

Gene: Lokk_58 Start: 39131, Stop: 38652, Start Num: 40

Candidate Starts for Lokk_58:

(24, 39152), (Start: 38 @39137 has 3 MA's), (Start: 40 @39131 has 121 MA's), (Start: 93 @39002 has 1 MA's), (130, 38801),

Gene: LoneWolf_64 Start: 40067, Stop: 39603, Start Num: 40

Candidate Starts for LoneWolf_64:

(Start: 40 @40067 has 121 MA's), (126, 39773), (130, 39752),

Gene: Looper_69 Start: 39699, Stop: 39241, Start Num: 33

Candidate Starts for Looper_69:

(22, 39717), (Start: 33 @39699 has 9 MA's), (Start: 89 @39609 has 12 MA's), (125, 39399), (157, 39273), (164, 39255),

Gene: Lopton_59 Start: 42300, Stop: 41809, Start Num: 30

Candidate Starts for Lopton_59:

(Start: 30 @42300 has 168 MA's), (Start: 91 @42186 has 3 MA's), (128, 41979), (133, 41958), (155, 41880), (177, 41841),

Gene: Lorenzo_58 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Lorenzo_58:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Loser_63 Start: 40393, Stop: 39932, Start Num: 49

Candidate Starts for Loser_63:

(27, 40420), (Start: 49 @40393 has 4 MA's), (121, 40129), (126, 40102), (130, 40081), (155, 39988),

Gene: Louie6_63 Start: 39650, Stop: 39174, Start Num: 31

Candidate Starts for Louie6_63:

(Start: 25 @39656 has 23 MA's), (Start: 31 @39650 has 240 MA's), (153, 39218), (155, 39212), (164, 39185),

Gene: Lozinak_134 Start: 74307, Stop: 74777, Start Num: 51

Candidate Starts for Lozinak_134:

(Start: 51 @74307 has 18 MA's), (Start: 71 @74334 has 29 MA's), (Start: 72 @74337 has 3 MA's), (133, 74655), (155, 74733),

Gene: Luchador_64 Start: 41264, Stop: 40782, Start Num: 40

Candidate Starts for Luchador_64:

(Start: 23 @41288 has 1 MA's), (Start: 40 @41264 has 121 MA's), (118, 40991), (130, 40928), (140, 40883),

Gene: Lucivia_62 Start: 39420, Stop: 38923, Start Num: 32

Candidate Starts for Lucivia_62:

(Start: 32 @39420 has 14 MA's), (Start: 59 @39384 has 15 MA's), (Start: 80 @39342 has 3 MA's), (Start: 100 @39249 has 1 MA's), (120, 39126), (127, 39084), (130, 39072), (170, 38937),

Gene: Lucky2013_123 Start: 67390, Stop: 67872, Start Num: 35

Candidate Starts for Lucky2013_123:

(Start: 20 @67354 has 2 MA's), (Start: 35 @67390 has 38 MA's), (120, 67684), (125, 67714), (126, 67717), (133, 67753),

Gene: LuckySocke_64 Start: 22633, Stop: 23091, Start Num: 39

Candidate Starts for LuckySocke_64:

(Start: 39 @22633 has 5 MA's), (92, 22783), (94, 22795), (102, 22828), (112, 22891), (115, 22903), (120, 22942), (127, 22984), (142, 23041), (147, 23062),

Gene: Lucyedi_64 Start: 40048, Stop: 39584, Start Num: 44

Candidate Starts for Lucyedi_64:

(Start: 44 @40048 has 1 MA's), (Start: 49 @40042 has 4 MA's), (121, 39781), (126, 39754), (130, 39733), (153, 39646),

Gene: LugYA_67 Start: 39622, Stop: 39146, Start Num: 31

Candidate Starts for LugYA_67:

(Start: 25 @39628 has 23 MA's), (Start: 31 @39622 has 240 MA's), (Start: 80 @39547 has 3 MA's), (153, 39190), (164, 39157),

Gene: Lunsford_58 Start: 38972, Stop: 38502, Start Num: 31
Candidate Starts for Lunsford_58:
(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: MA5_61 Start: 38739, Stop: 38281, Start Num: 31
Candidate Starts for MA5_61:
(4, 38901), (6, 38862), (Start: 31 @38739 has 240 MA's), (86, 38661), (87, 38658), (Start: 100 @38580 has 1 MA's), (104, 38559), (155, 38310), (160, 38292),

Gene: MK4_61 Start: 38823, Stop: 38365, Start Num: 31
Candidate Starts for MK4_61:
(Start: 31 @38823 has 240 MA's), (86, 38745), (87, 38742), (Start: 100 @38664 has 1 MA's), (104, 38643), (136, 38460), (155, 38394), (160, 38376),

Gene: MPlant7149_59 Start: 39416, Stop: 38907, Start Num: 30
Candidate Starts for MPlant7149_59:
(Start: 30 @39416 has 168 MA's), (Start: 91 @39302 has 3 MA's), (133, 39074), (155, 38996), (177, 38957),

Gene: MaCh_61 Start: 39314, Stop: 38853, Start Num: 59
Candidate Starts for MaCh_61:
(Start: 32 @39350 has 14 MA's), (Start: 59 @39314 has 15 MA's), (Start: 80 @39272 has 3 MA's), (Start: 100 @39179 has 1 MA's), (127, 39014), (130, 39002), (170, 38867),

Gene: Mabel_61 Start: 39331, Stop: 38885, Start Num: 59
Candidate Starts for Mabel_61:
(Start: 32 @39367 has 14 MA's), (Start: 59 @39331 has 15 MA's), (Start: 80 @39289 has 3 MA's), (Start: 100 @39196 has 1 MA's), (120, 39073), (127, 39031), (130, 39019),

Gene: MadKillah_10 Start: 3349, Stop: 2729, Start Num: 71
Candidate Starts for MadKillah_10:
(Start: 71 @3349 has 29 MA's), (88, 3289), (123, 3076), (174, 2887), (176, 2863), (180, 2788),

Gene: MadMarie_64 Start: 39629, Stop: 39147, Start Num: 25
Candidate Starts for MadMarie_64:
(Start: 25 @39629 has 23 MA's), (Start: 31 @39623 has 240 MA's), (Start: 80 @39548 has 3 MA's), (153, 39191), (164, 39158),

Gene: Madraxi_99 Start: 57728, Stop: 58162, Start Num: 66
Candidate Starts for Madraxi_99:
(Start: 66 @57728 has 1 MA's), (85, 57770), (Start: 91 @57812 has 3 MA's), (Start: 97 @57839 has 1 MA's), (138, 58049), (139, 58052), (153, 58097),

Gene: Magnar_57 Start: 40432, Stop: 39956, Start Num: 30
Candidate Starts for Magnar_57:
(Start: 30 @40432 has 168 MA's), (155, 40027), (177, 39988),

Gene: Magnito_59 Start: 40568, Stop: 40074, Start Num: 30
Candidate Starts for Magnito_59:
(Start: 30 @40568 has 168 MA's), (155, 40163), (177, 40124),

Gene: Mainiac_64 Start: 39615, Stop: 39139, Start Num: 31

Candidate Starts for Mainiac_64:

(Start: 25 @39621 has 23 MA's), (Start: 31 @39615 has 240 MA's), (Start: 80 @39540 has 3 MA's), (153, 39183), (164, 39150),

Gene: Makemake_61 Start: 41889, Stop: 41380, Start Num: 30

Candidate Starts for Makemake_61:

(Start: 30 @41889 has 168 MA's), (Start: 91 @41775 has 3 MA's), (133, 41547), (155, 41469), (177, 41430),

Gene: Malec_61 Start: 40438, Stop: 39965, Start Num: 40

Candidate Starts for Malec_61:

(Start: 38 @40444 has 3 MA's), (Start: 40 @40438 has 121 MA's), (Start: 93 @40309 has 1 MA's), (130, 40108),

Gene: Malinsilva_66 Start: 39619, Stop: 39137, Start Num: 25

Candidate Starts for Malinsilva_66:

(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: Malthus_77 Start: 48369, Stop: 48845, Start Num: 64

Candidate Starts for Malthus_77:

(Start: 42 @48345 has 4 MA's), (Start: 64 @48369 has 18 MA's), (Start: 70 @48381 has 1 MA's), (83, 48417), (90, 48453), (Start: 91 @48471 has 3 MA's), (Start: 95 @48489 has 3 MA's), (120, 48633), (121, 48639), (131, 48702), (139, 48738), (142, 48741), (161, 48810), (172, 48834),

Gene: Maminiaina_62 Start: 39914, Stop: 39450, Start Num: 40

Candidate Starts for Maminiaina_62:

(Start: 40 @39914 has 121 MA's), (126, 39620), (130, 39599),

Gene: Manatee_60 Start: 40549, Stop: 40076, Start Num: 51

Candidate Starts for Manatee_60:

(Start: 51 @40549 has 18 MA's), (155, 40144),

Gene: Manda_22 Start: 13303, Stop: 13818, Start Num: 62

Candidate Starts for Manda_22:

(Start: 62 @13303 has 38 MA's), (Start: 82 @13348 has 3 MA's), (121, 13600), (143, 13696),

Gene: Manu_64 Start: 39507, Stop: 39031, Start Num: 31

Candidate Starts for Manu_64:

(Start: 31 @39507 has 240 MA's), (147, 39093), (153, 39075), (164, 39042),

Gene: MarQuardt_64 Start: 39623, Stop: 39147, Start Num: 31

Candidate Starts for MarQuardt_64:

(Start: 25 @39629 has 23 MA's), (Start: 31 @39623 has 240 MA's), (Start: 80 @39548 has 3 MA's), (153, 39191), (164, 39158),

Gene: Marcell_56 Start: 39439, Stop: 38963, Start Num: 30

Candidate Starts for Marcell_56:

(Start: 30 @39439 has 168 MA's), (155, 39034), (177, 38995),

Gene: Marge_58 Start: 40328, Stop: 39852, Start Num: 30

Candidate Starts for Marge_58:

(Start: 30 @40328 has 168 MA's), (155, 39923), (177, 39884),

Gene: Margo_60 Start: 39364, Stop: 38906, Start Num: 31
Candidate Starts for Margo_60:
(Start: 31 @39364 has 240 MA's), (86, 39286), (87, 39283), (104, 39184), (126, 39049), (133, 39013),
(153, 38941), (160, 38917),

Gene: Marie_62 Start: 39627, Stop: 39145, Start Num: 25
Candidate Starts for Marie_62:
(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's),
(153, 39189), (164, 39156),

Gene: Marius_65 Start: 39504, Stop: 39028, Start Num: 31
Candidate Starts for Marius_65:
(Start: 31 @39504 has 240 MA's), (147, 39090), (153, 39072), (164, 39039),

Gene: Maroc7_57 Start: 40727, Stop: 40251, Start Num: 30
Candidate Starts for Maroc7_57:
(19, 40757), (Start: 30 @40727 has 168 MA's), (155, 40322), (177, 40283),

Gene: Marsha_59 Start: 41914, Stop: 41420, Start Num: 30
Candidate Starts for Marsha_59:
(Start: 30 @41914 has 168 MA's), (155, 41509), (177, 41470),

Gene: MaryBeth_58 Start: 40766, Stop: 40299, Start Num: 30
Candidate Starts for MaryBeth_58:
(Start: 30 @40766 has 168 MA's), (133, 40445), (155, 40367),

Gene: MarysWell_58 Start: 40048, Stop: 39584, Start Num: 56
Candidate Starts for MarysWell_58:
(Start: 43 @40063 has 18 MA's), (Start: 56 @40048 has 25 MA's), (Start: 91 @39940 has 3 MA's),
(104, 39880), (134, 39703), (155, 39628), (165, 39598),

Gene: Maverick_58 Start: 39014, Stop: 38508, Start Num: 17
Candidate Starts for Maverick_58:
(Start: 17 @39014 has 1 MA's), (Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Maxo_59 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Maxo_59:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Mazhar510_58 Start: 38979, Stop: 38509, Start Num: 31
Candidate Starts for Mazhar510_58:
(Start: 31 @38979 has 240 MA's), (104, 38790),

Gene: McFly_63 Start: 38580, Stop: 38080, Start Num: 43
Candidate Starts for McFly_63:
(Start: 40 @38583 has 121 MA's), (Start: 43 @38580 has 18 MA's), (130, 38256),

Gene: McGuire_61 Start: 40092, Stop: 39616, Start Num: 30
Candidate Starts for McGuire_61:
(Start: 30 @40092 has 168 MA's), (155, 39687), (177, 39648),

Gene: Medusa_58 Start: 38977, Stop: 38507, Start Num: 31

Candidate Starts for Medusa_58:

(26, 38983), (Start: 31 @38977 has 240 MA's), (Start: 91 @38848 has 3 MA's), (104, 38788),

Gene: MeeZee_58 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for MeeZee_58:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Melvin_60 Start: 38973, Stop: 38503, Start Num: 31

Candidate Starts for Melvin_60:

(Start: 31 @38973 has 240 MA's), (104, 38784),

Gene: MetalQZJ_57 Start: 40766, Stop: 40299, Start Num: 30

Candidate Starts for MetalQZJ_57:

(Start: 30 @40766 has 168 MA's), (133, 40445), (155, 40367),

Gene: Methuselah_59 Start: 39651, Stop: 39169, Start Num: 25

Candidate Starts for Methuselah_59:

(Start: 25 @39651 has 23 MA's), (Start: 31 @39645 has 240 MA's), (Start: 80 @39570 has 3 MA's), (153, 39213), (164, 39180),

Gene: MiaZeal_127 Start: 67986, Stop: 68486, Start Num: 35

Candidate Starts for MiaZeal_127:

(Start: 20 @67950 has 2 MA's), (Start: 35 @67986 has 38 MA's), (Start: 100 @68172 has 1 MA's), (120, 68295), (136, 68373), (139, 68388), (145, 68409), (150, 68427),

Gene: Micasa_56 Start: 39770, Stop: 39306, Start Num: 56

Candidate Starts for Micasa_56:

(Start: 43 @39785 has 18 MA's), (Start: 56 @39770 has 25 MA's), (Start: 91 @39662 has 3 MA's), (104, 39602), (110, 39566), (134, 39425), (155, 39350), (165, 39320),

Gene: Michley_62 Start: 41020, Stop: 40535, Start Num: 30

Candidate Starts for Michley_62:

(Start: 30 @41020 has 168 MA's), (77, 40972), (Start: 95 @40912 has 3 MA's), (Start: 98 @40894 has 1 MA's), (128, 40723), (133, 40702), (155, 40624), (177, 40585),

Gene: Microwolf_62 Start: 39643, Stop: 39161, Start Num: 25

Candidate Starts for Microwolf_62:

(Start: 25 @39643 has 23 MA's), (Start: 31 @39637 has 240 MA's), (Start: 80 @39562 has 3 MA's), (153, 39205), (164, 39172),

Gene: MiculUcigas_62 Start: 39497, Stop: 39024, Start Num: 40

Candidate Starts for MiculUcigas_62:

(Start: 38 @39503 has 3 MA's), (Start: 40 @39497 has 121 MA's), (Start: 93 @39368 has 1 MA's), (130, 39167),

Gene: Midas2_56 Start: 39869, Stop: 39405, Start Num: 56

Candidate Starts for Midas2_56:

(Start: 43 @39884 has 18 MA's), (Start: 56 @39869 has 25 MA's), (Start: 91 @39761 has 3 MA's), (104, 39701), (134, 39524), (155, 39449), (165, 39419),

Gene: Miko_58 Start: 39909, Stop: 39430, Start Num: 40

Candidate Starts for Miko_58:

(24, 39930), (Start: 38 @39915 has 3 MA's), (Start: 40 @39909 has 121 MA's), (Start: 93 @39780 has 1 MA's), (130, 39579), (171, 39441),

Gene: Milcery_57 Start: 39367, Stop: 38903, Start Num: 56

Candidate Starts for Milcery_57:

(Start: 43 @39382 has 18 MA's), (Start: 56 @39367 has 25 MA's), (Start: 91 @39259 has 3 MA's), (104, 39199), (134, 39022), (155, 38947), (165, 38917),

Gene: Millski_57 Start: 38979, Stop: 38509, Start Num: 31

Candidate Starts for Millski_57:

(Start: 31 @38979 has 240 MA's), (104, 38790),

Gene: MinecraftSteve_70 Start: 39933, Stop: 39565, Start Num: 89

Candidate Starts for MinecraftSteve_70:

(22, 40041), (Start: 33 @40023 has 9 MA's), (Start: 89 @39933 has 12 MA's), (125, 39723), (157, 39597), (164, 39579),

Gene: Minerva_129 Start: 70422, Stop: 70898, Start Num: 35

Candidate Starts for Minerva_129:

(18, 70377), (Start: 35 @70422 has 38 MA's), (125, 70740), (126, 70743), (133, 70779), (153, 70851), (159, 70872),

Gene: Miramae_55 Start: 38264, Stop: 37794, Start Num: 31

Candidate Starts for Miramae_55:

(18, 38297), (Start: 31 @38264 has 240 MA's), (104, 38075), (160, 37808),

Gene: Miskis_133 Start: 73766, Stop: 74209, Start Num: 71

Candidate Starts for Miskis_133:

(Start: 51 @73739 has 18 MA's), (Start: 71 @73766 has 29 MA's), (Start: 72 @73769 has 3 MA's), (133, 74087), (155, 74165),

Gene: Misomonster_65 Start: 39648, Stop: 39172, Start Num: 31

Candidate Starts for Misomonster_65:

(Start: 25 @39654 has 23 MA's), (Start: 31 @39648 has 240 MA's), (153, 39216), (164, 39183),

Gene: MissDaisy_73 Start: 47265, Stop: 47756, Start Num: 50

Candidate Starts for MissDaisy_73:

(Start: 42 @47256 has 4 MA's), (Start: 50 @47265 has 5 MA's), (Start: 64 @47280 has 18 MA's), (Start: 70 @47292 has 1 MA's), (83, 47328), (90, 47364), (Start: 91 @47382 has 3 MA's), (Start: 95 @47400 has 3 MA's), (120, 47544), (121, 47550), (131, 47613), (139, 47649), (142, 47652), (161, 47721), (172, 47745),

Gene: MissWhite_60 Start: 38373, Stop: 37915, Start Num: 59

Candidate Starts for MissWhite_60:

(Start: 30 @38409 has 168 MA's), (Start: 33 @38406 has 9 MA's), (Start: 59 @38373 has 15 MA's), (130, 38061), (155, 37968),

Gene: Mitti_76 Start: 48500, Stop: 49000, Start Num: 42

Candidate Starts for Mitti_76:

(Start: 42 @48500 has 4 MA's), (Start: 64 @48524 has 18 MA's), (Start: 70 @48536 has 1 MA's), (83, 48572), (90, 48608), (Start: 91 @48626 has 3 MA's), (Start: 95 @48644 has 3 MA's), (131, 48857), (139, 48893), (142, 48896), (161, 48965), (172, 48989),

Gene: Molly_62 Start: 41197, Stop: 40688, Start Num: 30
Candidate Starts for Molly_62:
(Start: 30 @41197 has 168 MA's), (Start: 91 @41083 has 3 MA's), (133, 40855), (155, 40777), (177, 40738),

Gene: Monet_63 Start: 42683, Stop: 42189, Start Num: 51
Candidate Starts for Monet_63:
(Start: 51 @42683 has 18 MA's), (155, 42278), (177, 42239),

Gene: MoneyMay_63 Start: 39621, Stop: 39145, Start Num: 31
Candidate Starts for MoneyMay_63:
(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's), (153, 39189), (164, 39156),

Gene: Moose_58 Start: 39605, Stop: 39129, Start Num: 30
Candidate Starts for Moose_58:
(Start: 30 @39605 has 168 MA's), (155, 39200), (177, 39161),

Gene: Mori_10 Start: 3349, Stop: 2729, Start Num: 71
Candidate Starts for Mori_10:
(Start: 71 @3349 has 29 MA's), (123, 3076), (174, 2887), (176, 2863), (180, 2788),

Gene: Morpher26_56 Start: 38824, Stop: 38354, Start Num: 31
Candidate Starts for Morpher26_56:
(26, 38830), (Start: 31 @38824 has 240 MA's), (104, 38635), (160, 38368),

Gene: Morrow_59 Start: 38984, Stop: 38514, Start Num: 31
Candidate Starts for Morrow_59:
(Start: 31 @38984 has 240 MA's), (104, 38795),

Gene: MrGordo_59 Start: 40260, Stop: 39790, Start Num: 30
Candidate Starts for MrGordo_59:
(Start: 30 @40260 has 168 MA's), (133, 39939), (155, 39861), (177, 39822),

Gene: Mryolo_56 Start: 40302, Stop: 39835, Start Num: 30
Candidate Starts for Mryolo_56:
(Start: 30 @40302 has 168 MA's), (77, 40254), (Start: 95 @40194 has 3 MA's), (Start: 98 @40176 has 1 MA's), (128, 40005), (133, 39984), (155, 39906), (177, 39867),

Gene: MuchMore_67 Start: 39613, Stop: 39137, Start Num: 31
Candidate Starts for MuchMore_67:
(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: Mulciber_60 Start: 38872, Stop: 38411, Start Num: 59
Candidate Starts for Mulciber_60:
(Start: 32 @38908 has 14 MA's), (Start: 59 @38872 has 15 MA's), (Start: 80 @38830 has 3 MA's), (Start: 91 @38776 has 3 MA's), (Start: 100 @38737 has 1 MA's), (120, 38614), (127, 38572), (130, 38560), (170, 38425),

Gene: Mule_58 Start: 40131, Stop: 39637, Start Num: 30
Candidate Starts for Mule_58:
(Start: 30 @40131 has 168 MA's), (155, 39726), (177, 39687),

Gene: Munch_61 Start: 39371, Stop: 38874, Start Num: 32

Candidate Starts for Munch_61:

(Start: 32 @39371 has 14 MA's), (Start: 59 @39335 has 15 MA's), (Start: 80 @39293 has 3 MA's), (Start: 91 @39239 has 3 MA's), (Start: 100 @39200 has 1 MA's), (120, 39077), (127, 39035), (130, 39023), (170, 38888),

Gene: Mundrea_56 Start: 38816, Stop: 38346, Start Num: 31

Candidate Starts for Mundrea_56:

(18, 38849), (Start: 31 @38816 has 240 MA's), (96, 38663), (104, 38627), (160, 38360),

Gene: Murai_10 Start: 3349, Stop: 2729, Start Num: 71

Candidate Starts for Murai_10:

(Start: 71 @3349 has 29 MA's), (123, 3076), (174, 2887), (176, 2863), (180, 2788),

Gene: Murica_20 Start: 12799, Stop: 13314, Start Num: 62

Candidate Starts for Murica_20:

(Start: 62 @12799 has 38 MA's), (Start: 82 @12844 has 3 MA's), (121, 13096), (143, 13192),

Gene: Museum_61 Start: 41999, Stop: 41505, Start Num: 30

Candidate Starts for Museum_61:

(Start: 30 @41999 has 168 MA's), (155, 41594), (177, 41555),

Gene: MyraDee_58 Start: 36584, Stop: 36225, Start Num: 91

Candidate Starts for MyraDee_58:

(37, 36716), (Start: 91 @36584 has 3 MA's), (104, 36524), (128, 36374), (149, 36293),

Gene: Myxus_63 Start: 40037, Stop: 39573, Start Num: 40

Candidate Starts for Myxus_63:

(Start: 40 @40037 has 121 MA's), (121, 39770), (126, 39743), (130, 39722), (153, 39635),

Gene: NEHalo_57 Start: 40355, Stop: 39864, Start Num: 30

Candidate Starts for NEHalo_57:

(Start: 30 @40355 has 168 MA's), (Start: 91 @40241 has 3 MA's), (133, 40013), (155, 39935), (177, 39896),

Gene: NaSiaTalie_62 Start: 39591, Stop: 39118, Start Num: 40

Candidate Starts for NaSiaTalie_62:

(Start: 38 @39597 has 3 MA's), (Start: 40 @39591 has 121 MA's), (Start: 93 @39462 has 1 MA's), (116, 39351), (130, 39261),

Gene: Naca_59 Start: 40333, Stop: 39869, Start Num: 56

Candidate Starts for Naca_59:

(Start: 43 @40348 has 18 MA's), (Start: 56 @40333 has 25 MA's), (Start: 91 @40225 has 3 MA's), (104, 40165), (134, 39988), (143, 39955), (155, 39913), (165, 39883),

Gene: Naiad_50 Start: 36821, Stop: 36381, Start Num: 69

Candidate Starts for Naiad_50:

(Start: 69 @36821 has 34 MA's), (Start: 95 @36719 has 3 MA's), (125, 36542), (133, 36503), (134, 36500), (136, 36491), (155, 36425),

Gene: Naira_62 Start: 42177, Stop: 41692, Start Num: 30

Candidate Starts for Naira_62:

(Start: 30 @42177 has 168 MA's), (133, 41841), (155, 41763), (177, 41724),

Gene: Naji_63 Start: 39576, Stop: 39115, Start Num: 59

Candidate Starts for Naji_63:

(Start: 31 @39612 has 240 MA's), (Start: 59 @39576 has 15 MA's), (Start: 80 @39534 has 3 MA's), (86, 39522), (130, 39264), (140, 39219),

Gene: Nala_21 Start: 12841, Stop: 13356, Start Num: 62

Candidate Starts for Nala_21:

(Start: 62 @12841 has 38 MA's), (Start: 82 @12886 has 3 MA's), (121, 13138), (143, 13234),

Gene: Nancinator_51 Start: 36741, Stop: 36301, Start Num: 69

Candidate Starts for Nancinator_51:

(Start: 69 @36741 has 34 MA's), (Start: 95 @36639 has 3 MA's), (125, 36462), (133, 36423), (134, 36420), (136, 36411), (155, 36345),

Gene: Natosaleda_50 Start: 36740, Stop: 36300, Start Num: 69

Candidate Starts for Natosaleda_50:

(Start: 69 @36740 has 34 MA's), (Start: 95 @36638 has 3 MA's), (125, 36461), (133, 36422), (134, 36419), (136, 36410), (155, 36344),

Gene: NearlyHeadless_64 Start: 39321, Stop: 38833, Start Num: 62

Candidate Starts for NearlyHeadless_64:

(48, 39327), (Start: 62 @39321 has 38 MA's), (Start: 91 @39219 has 3 MA's), (104, 39159), (155, 38880),

Gene: Nebkiss_87 Start: 49827, Stop: 50270, Start Num: 68

Candidate Starts for Nebkiss_87:

(Start: 68 @49827 has 3 MA's), (114, 50034), (134, 50145), (139, 50169), (148, 50199), (161, 50244),

Gene: Nebs_59 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Nebs_59:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Nebulosus_68 Start: 39693, Stop: 39325, Start Num: 89

Candidate Starts for Nebulosus_68:

(Start: 33 @39783 has 9 MA's), (Start: 89 @39693 has 12 MA's), (125, 39483), (157, 39357), (164, 39339),

Gene: Nedarya_66 Start: 39619, Stop: 39284, Start Num: 93

Candidate Starts for Nedarya_66:

(Start: 31 @39748 has 240 MA's), (Start: 93 @39619 has 1 MA's), (157, 39316), (158, 39313), (164, 39298),

Gene: Neeharika16_60 Start: 38043, Stop: 37540, Start Num: 40

Candidate Starts for Neeharika16_60:

(Start: 40 @38043 has 121 MA's), (Start: 43 @38040 has 18 MA's), (130, 37716),

Gene: Nemo27_58 Start: 38977, Stop: 38507, Start Num: 31

Candidate Starts for Nemo27_58:

(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: Nerujay_62 Start: 42048, Stop: 41554, Start Num: 30

Candidate Starts for Nerujay_62:
(Start: 30 @42048 has 168 MA's), (155, 41643), (177, 41604),

Gene: Newrala_63 Start: 38585, Stop: 38082, Start Num: 40
Candidate Starts for Newrala_63:
(Start: 40 @38585 has 121 MA's), (Start: 43 @38582 has 18 MA's), (130, 38258),

Gene: Nhonho_58 Start: 41316, Stop: 40777, Start Num: 30
Candidate Starts for Nhonho_58:
(Start: 30 @41316 has 168 MA's), (Start: 91 @41202 has 3 MA's), (Start: 93 @41187 has 1 MA's),
(108, 41121), (155, 40896), (177, 40809),

Gene: NicoleTera_60 Start: 39899, Stop: 39426, Start Num: 40
Candidate Starts for NicoleTera_60:
(Start: 38 @39905 has 3 MA's), (Start: 40 @39899 has 121 MA's), (Start: 93 @39770 has 1 MA's),
(130, 39569), (153, 39482),

Gene: NiebruSaylor_10 Start: 3349, Stop: 2729, Start Num: 71
Candidate Starts for NiebruSaylor_10:
(Start: 71 @3349 has 29 MA's), (123, 3076), (174, 2887), (176, 2863), (180, 2788),

Gene: NihilNomen_132 Start: 71278, Stop: 71757, Start Num: 35
Candidate Starts for NihilNomen_132:
(Start: 35 @71278 has 38 MA's), (114, 71521), (120, 71563), (131, 71620), (139, 71656),

Gene: Niza_61 Start: 41915, Stop: 41439, Start Num: 30
Candidate Starts for Niza_61:
(15, 41954), (Start: 30 @41915 has 168 MA's), (155, 41510), (177, 41471),

Gene: Noella_60 Start: 39339, Stop: 38881, Start Num: 31
Candidate Starts for Noella_60:
(Start: 31 @39339 has 240 MA's), (86, 39261), (87, 39258), (104, 39159), (126, 39024), (153, 38916),
(160, 38892),

Gene: Noelle_57 Start: 39125, Stop: 38655, Start Num: 31
Candidate Starts for Noelle_57:
(26, 39131), (Start: 31 @39125 has 240 MA's), (Start: 100 @38957 has 1 MA's), (104, 38936), (160,
38669),

Gene: Norbert_58 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for Norbert_58:
(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (153, 38915),
(160, 38891),

Gene: NorthStar_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for NorthStar_57:
(Start: 31 @38978 has 240 MA's), (104, 38789), (160, 38522),

Gene: Norvs_132 Start: 73732, Stop: 74172, Start Num: 72
Candidate Starts for Norvs_132:
(Start: 70 @73729 has 1 MA's), (Start: 72 @73732 has 3 MA's), (133, 74050), (155, 74128),

Gene: Norz_61 Start: 43144, Stop: 42650, Start Num: 30

Candidate Starts for Norz_61:
(Start: 30 @43144 has 168 MA's), (155, 42739), (177, 42700),

Gene: NotAPhaseMom_58 Start: 38982, Stop: 38512, Start Num: 31
Candidate Starts for NotAPhaseMom_58:
(Start: 31 @38982 has 240 MA's), (104, 38793),

Gene: NothingSpecial_59 Start: 39991, Stop: 39656, Start Num: 97
Candidate Starts for NothingSpecial_59:
(Start: 40 @40126 has 121 MA's), (Start: 51 @40114 has 18 MA's), (Start: 97 @39991 has 1 MA's),
(130, 39802), (168, 39670),

Gene: Nyxis_58 Start: 38868, Stop: 38398, Start Num: 31
Candidate Starts for Nyxis_58:
(Start: 31 @38868 has 240 MA's), (104, 38679),

Gene: OKCentral2016_58 Start: 38601, Stop: 38116, Start Num: 31
Candidate Starts for OKCentral2016_58:
(Start: 31 @38601 has 240 MA's), (104, 38409), (159, 38145), (160, 38142), (165, 38130),

Gene: OKaNui_58 Start: 39028, Stop: 38558, Start Num: 31
Candidate Starts for OKaNui_58:
(Start: 31 @39028 has 240 MA's), (104, 38839),

Gene: Obama12_59 Start: 39365, Stop: 38895, Start Num: 31
Candidate Starts for Obama12_59:
(18, 39398), (Start: 31 @39365 has 240 MA's), (104, 39176), (160, 38909),

Gene: Odette_132 Start: 72376, Stop: 72852, Start Num: 35
Candidate Starts for Odette_132:
(18, 72331), (Start: 35 @72376 has 38 MA's), (125, 72694), (126, 72697), (133, 72733), (153, 72805),
(159, 72826),

Gene: Odin_61 Start: 38966, Stop: 38484, Start Num: 36
Candidate Starts for Odin_61:
(Start: 36 @38966 has 3 MA's), (130, 38630),

Gene: Ohfah_59 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Ohfah_59:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Ohno789_60 Start: 41078, Stop: 40590, Start Num: 30
Candidate Starts for Ohno789_60:
(Start: 30 @41078 has 168 MA's), (Start: 91 @40964 has 3 MA's), (133, 40736), (155, 40658),

Gene: OlanP_63 Start: 39680, Stop: 39204, Start Num: 31
Candidate Starts for OlanP_63:
(Start: 31 @39680 has 240 MA's), (147, 39266), (153, 39248), (164, 39215),

Gene: Ollie_64 Start: 39492, Stop: 39016, Start Num: 31
Candidate Starts for Ollie_64:
(Start: 25 @39498 has 23 MA's), (Start: 31 @39492 has 240 MA's), (Start: 80 @39417 has 3 MA's),
(153, 39060), (164, 39027),

Gene: Omega_138 Start: 72194, Stop: 72676, Start Num: 35

Candidate Starts for Omega_138:

(Start: 20 @72158 has 2 MA's), (Start: 35 @72194 has 38 MA's), (125, 72518), (126, 72521), (133, 72557),

Gene: OmniCritical_76 Start: 48433, Stop: 48933, Start Num: 42

Candidate Starts for OmniCritical_76:

(Start: 42 @48433 has 4 MA's), (Start: 64 @48457 has 18 MA's), (Start: 70 @48469 has 1 MA's), (83, 48505), (90, 48541), (Start: 91 @48559 has 3 MA's), (Start: 95 @48577 has 3 MA's), (120, 48721), (121, 48727), (131, 48790), (139, 48826), (142, 48829), (161, 48898), (172, 48922),

Gene: OneUp_118 Start: 72254, Stop: 72691, Start Num: 69

Candidate Starts for OneUp_118:

(Start: 56 @72236 has 25 MA's), (Start: 69 @72254 has 34 MA's), (86, 72293),

Gene: Oofda_70 Start: 39947, Stop: 39528, Start Num: 75

Candidate Starts for Oofda_70:

(Start: 31 @40010 has 240 MA's), (Start: 75 @39947 has 1 MA's), (Start: 89 @39905 has 12 MA's), (Start: 93 @39863 has 1 MA's), (121, 39710), (125, 39686), (157, 39560), (164, 39542),

Gene: Oogway_59 Start: 41560, Stop: 41066, Start Num: 30

Candidate Starts for Oogway_59:

(Start: 30 @41560 has 168 MA's), (155, 41155), (177, 41116),

Gene: Optimus_121 Start: 68818, Stop: 69294, Start Num: 35

Candidate Starts for Optimus_121:

(18, 68773), (Start: 35 @68818 has 38 MA's), (125, 69136), (126, 69139), (133, 69175), (153, 69247), (159, 69268),

Gene: Orange_60 Start: 38884, Stop: 38423, Start Num: 59

Candidate Starts for Orange_60:

(Start: 32 @38920 has 14 MA's), (Start: 59 @38884 has 15 MA's), (Start: 80 @38842 has 3 MA's), (Start: 100 @38749 has 1 MA's), (120, 38626), (127, 38584), (130, 38572), (170, 38437),

Gene: P28Green_65 Start: 39630, Stop: 39148, Start Num: 25

Candidate Starts for P28Green_65:

(Start: 25 @39630 has 23 MA's), (Start: 31 @39624 has 240 MA's), (Start: 80 @39549 has 3 MA's), (153, 39192), (164, 39159),

Gene: PGHhamlin_66 Start: 39613, Stop: 39137, Start Num: 31

Candidate Starts for PGHhamlin_66:

(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: PP_61 Start: 43275, Stop: 42814, Start Num: 54

Candidate Starts for PP_61:

(28, 43314), (Start: 54 @43275 has 1 MA's), (Start: 91 @43164 has 3 MA's), (104, 43104), (127, 42960),

Gene: PSullivan_58 Start: 39335, Stop: 38847, Start Num: 30

Candidate Starts for PSullivan_58:

(Start: 30 @39335 has 168 MA's), (Start: 91 @39221 has 3 MA's), (133, 38993), (155, 38915),

Gene: PacerPaul_59 Start: 40757, Stop: 40281, Start Num: 30
Candidate Starts for PacerPaul_59:
(19, 40787), (Start: 30 @40757 has 168 MA's), (155, 40352), (177, 40313),

Gene: PainterBoy_64 Start: 40001, Stop: 39543, Start Num: 49
Candidate Starts for PainterBoy_64:
(Start: 44 @40007 has 1 MA's), (Start: 49 @40001 has 4 MA's), (121, 39740), (126, 39713), (130, 39692), (153, 39605),

Gene: Palestino_57 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for Palestino_57:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Panamaxus_58 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for Panamaxus_58:
(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (133, 38987), (153, 38915), (160, 38891),

Gene: Papez_62 Start: 42285, Stop: 41809, Start Num: 30
Candidate Starts for Papez_62:
(19, 42315), (Start: 30 @42285 has 168 MA's), (155, 41880), (177, 41841),

Gene: Paphu_59 Start: 41191, Stop: 40712, Start Num: 30
Candidate Starts for Paphu_59:
(Start: 30 @41191 has 168 MA's), (155, 40786), (177, 40747),

Gene: Paraselene_57 Start: 40822, Stop: 40355, Start Num: 30
Candidate Starts for Paraselene_57:
(Start: 30 @40822 has 168 MA's), (133, 40501), (155, 40423),

Gene: Pari_62 Start: 40283, Stop: 39795, Start Num: 30
Candidate Starts for Pari_62:
(Start: 30 @40283 has 168 MA's), (Start: 91 @40169 has 3 MA's), (133, 39941), (155, 39863),

Gene: Parliament_61 Start: 42983, Stop: 42507, Start Num: 30
Candidate Starts for Parliament_61:
(Start: 30 @42983 has 168 MA's), (155, 42578), (177, 42539),

Gene: Partridge_50 Start: 37097, Stop: 36657, Start Num: 69
Candidate Starts for Partridge_50:
(Start: 69 @37097 has 34 MA's), (Start: 80 @37067 has 3 MA's), (Start: 95 @36995 has 3 MA's), (125, 36818), (133, 36779), (134, 36776), (136, 36767), (155, 36701),

Gene: PascalRango_59 Start: 40576, Stop: 40085, Start Num: 30
Candidate Starts for PascalRango_59:
(Start: 30 @40576 has 168 MA's), (Start: 91 @40462 has 3 MA's), (133, 40234), (155, 40156), (177, 40117),

Gene: Patt_72 Start: 46986, Stop: 47477, Start Num: 50
Candidate Starts for Patt_72:
(Start: 42 @46977 has 4 MA's), (Start: 50 @46986 has 5 MA's), (Start: 64 @47001 has 18 MA's), (Start: 70 @47013 has 1 MA's), (83, 47049), (90, 47085), (Start: 91 @47103 has 3 MA's), (Start: 95

@47121 has 3 MA's), (120, 47265), (121, 47271), (131, 47334), (139, 47370), (142, 47373), (161, 47442), (172, 47466),

Gene: PattyP_62 Start: 41975, Stop: 41481, Start Num: 30
Candidate Starts for PattyP_62:
(Start: 30 @41975 has 168 MA's), (155, 41570), (177, 41531),

Gene: Pawn_64 Start: 39511, Stop: 39035, Start Num: 31
Candidate Starts for Pawn_64:
(Start: 31 @39511 has 240 MA's), (147, 39097), (153, 39079), (164, 39046),

Gene: PeaceMeal1_57 Start: 38138, Stop: 37653, Start Num: 31
Candidate Starts for PeaceMeal1_57:
(Start: 31 @38138 has 240 MA's), (104, 37946), (158, 37685), (165, 37667),

Gene: Peaches_57 Start: 38977, Stop: 38507, Start Num: 31
Candidate Starts for Peaches_57:
(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: Pelly_60 Start: 41987, Stop: 41493, Start Num: 30
Candidate Starts for Pelly_60:
(Start: 30 @41987 has 168 MA's), (155, 41582), (177, 41543),

Gene: Pembroke_64 Start: 39628, Stop: 39146, Start Num: 25
Candidate Starts for Pembroke_64:
(Start: 25 @39628 has 23 MA's), (Start: 31 @39622 has 240 MA's), (Start: 80 @39547 has 3 MA's),
(153, 39190), (164, 39157),

Gene: Penny1_65 Start: 39625, Stop: 39149, Start Num: 31
Candidate Starts for Penny1_65:
(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's),
(153, 39193), (164, 39160),

Gene: Perplexer_56 Start: 38800, Stop: 38330, Start Num: 31
Candidate Starts for Perplexer_56:
(26, 38806), (Start: 31 @38800 has 240 MA's), (104, 38611), (160, 38344),

Gene: Perseus_60 Start: 42536, Stop: 42042, Start Num: 30
Candidate Starts for Perseus_60:
(Start: 30 @42536 has 168 MA's), (155, 42131), (177, 42092),

Gene: PeterPeter_58 Start: 38975, Stop: 38505, Start Num: 31
Candidate Starts for PeterPeter_58:
(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Petersenfast_59 Start: 38841, Stop: 38422, Start Num: 80
Candidate Starts for Petersenfast_59:
(Start: 32 @38919 has 14 MA's), (Start: 59 @38883 has 15 MA's), (Start: 80 @38841 has 3 MA's),
(Start: 100 @38748 has 1 MA's), (120, 38625), (127, 38583), (130, 38571), (170, 38436),

Gene: Peterson_63 Start: 42504, Stop: 42028, Start Num: 30
Candidate Starts for Peterson_63:
(Start: 30 @42504 has 168 MA's), (155, 42099), (177, 42060),

Gene: PetiteSangsue_56 Start: 38803, Stop: 38333, Start Num: 31
Candidate Starts for PetiteSangsue_56:
(26, 38809), (Start: 31 @38803 has 240 MA's), (104, 38614), (160, 38347),

Gene: Petp2012_61 Start: 42483, Stop: 41974, Start Num: 30
Candidate Starts for Petp2012_61:
(Start: 30 @42483 has 168 MA's), (Start: 91 @42369 has 3 MA's), (133, 42141), (155, 42063), (177, 42024),

Gene: Petruccio_58 Start: 39710, Stop: 39234, Start Num: 30
Candidate Starts for Petruccio_58:
(Start: 30 @39710 has 168 MA's), (155, 39305), (177, 39266),

Gene: PetterN_64 Start: 40079, Stop: 39615, Start Num: 56
Candidate Starts for PetterN_64:
(Start: 43 @40094 has 18 MA's), (Start: 56 @40079 has 25 MA's), (Start: 91 @39971 has 3 MA's),
(104, 39911), (134, 39734), (143, 39701), (155, 39659), (165, 39629),

Gene: Ph8s_63 Start: 39149, Stop: 38667, Start Num: 36
Candidate Starts for Ph8s_63:
(Start: 36 @39149 has 3 MA's), (130, 38813), (140, 38768),

Gene: Phacado_58 Start: 38977, Stop: 38507, Start Num: 31
Candidate Starts for Phacado_58:
(Start: 31 @38977 has 240 MA's), (104, 38788),

Gene: Phaded_61 Start: 40784, Stop: 40320, Start Num: 40
Candidate Starts for Phaded_61:
(Start: 38 @40790 has 3 MA's), (Start: 40 @40784 has 121 MA's), (130, 40469),

Gene: Phaeder_63 Start: 39912, Stop: 39448, Start Num: 40
Candidate Starts for Phaeder_63:
(Start: 40 @39912 has 121 MA's), (121, 39645), (126, 39618), (130, 39597), (153, 39510),

Gene: PhailMary_50 Start: 37121, Stop: 36681, Start Num: 69
Candidate Starts for PhailMary_50:
(Start: 69 @37121 has 34 MA's), (Start: 95 @37019 has 3 MA's), (125, 36842), (133, 36803), (134, 36800), (136, 36791), (155, 36725),

Gene: Phantastic_62 Start: 39000, Stop: 38542, Start Num: 31
Candidate Starts for Phantastic_62:
(Start: 31 @39000 has 240 MA's), (86, 38922), (87, 38919), (Start: 100 @38841 has 1 MA's), (104, 38820), (155, 38571), (160, 38553),

Gene: PhatBacter_21 Start: 12888, Stop: 13358, Start Num: 82
Candidate Starts for PhatBacter_21:
(Start: 62 @12843 has 38 MA's), (Start: 82 @12888 has 3 MA's), (121, 13140), (143, 13236),

Gene: Phaux_20 Start: 12841, Stop: 13356, Start Num: 62
Candidate Starts for Phaux_20:
(Start: 62 @12841 has 38 MA's), (Start: 82 @12886 has 3 MA's), (121, 13138), (143, 13234),

Gene: Phelipe_59 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Phelipe_59:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: PherrisBueller_58 Start: 39152, Stop: 38664, Start Num: 30

Candidate Starts for PherrisBueller_58:

(Start: 30 @39152 has 168 MA's), (Start: 91 @39038 has 3 MA's), (133, 38810), (155, 38732),

Gene: Phighter1804_58 Start: 39039, Stop: 38569, Start Num: 31

Candidate Starts for Phighter1804_58:

(Start: 31 @39039 has 240 MA's), (104, 38850),

Gene: Phillis_61 Start: 38769, Stop: 38311, Start Num: 62

Candidate Starts for Phillis_61:

(48, 38775), (Start: 62 @38769 has 38 MA's), (104, 38607),

Gene: PhinkBoden_133 Start: 74594, Stop: 75037, Start Num: 70

Candidate Starts for PhinkBoden_133:

(Start: 70 @74594 has 1 MA's), (Start: 72 @74597 has 3 MA's), (133, 74915), (155, 74993),

Gene: PhishRPhriends_62 Start: 38688, Stop: 38212, Start Num: 31

Candidate Starts for PhishRPhriends_62:

(Start: 31 @38688 has 240 MA's), (147, 38274), (153, 38256), (164, 38223),

Gene: Phlei_52 Start: 39642, Stop: 39148, Start Num: 38

Candidate Starts for Phlei_52:

(14, 39696), (Start: 38 @39642 has 3 MA's), (67, 39600), (126, 39318), (142, 39249), (147, 39228), (153, 39210), (155, 39204),

Gene: Phlorence_57 Start: 39557, Stop: 39099, Start Num: 62

Candidate Starts for Phlorence_57:

(Start: 62 @39557 has 38 MA's), (Start: 91 @39455 has 3 MA's), (104, 39395), (110, 39359), (134, 39218), (155, 39143), (165, 39113),

Gene: Phoebe_65 Start: 39614, Stop: 39138, Start Num: 31

Candidate Starts for Phoebe_65:

(Start: 25 @39620 has 23 MA's), (Start: 31 @39614 has 240 MA's), (Start: 80 @39539 has 3 MA's), (153, 39182), (164, 39149),

Gene: Phoebus_131 Start: 73175, Stop: 73651, Start Num: 35

Candidate Starts for Phoebus_131:

(18, 73130), (Start: 35 @73175 has 38 MA's), (125, 73493), (126, 73496), (133, 73532), (153, 73604), (159, 73625),

Gene: Phonnegut_64 Start: 40134, Stop: 39670, Start Num: 40

Candidate Starts for Phonnegut_64:

(Start: 40 @40134 has 121 MA's), (121, 39867), (126, 39840), (130, 39819), (153, 39732),

Gene: Phontbonne_58 Start: 38869, Stop: 38399, Start Num: 31

Candidate Starts for Phontbonne_58:

(26, 38875), (Start: 31 @38869 has 240 MA's), (104, 38680),

Gene: Phoxy_64 Start: 39646, Stop: 39170, Start Num: 31

Candidate Starts for Phoxy_64:

(Start: 25 @39652 has 23 MA's), (Start: 31 @39646 has 240 MA's), (Start: 80 @39571 has 3 MA's), (153, 39214), (164, 39181),

Gene: Phrankenstein_51 Start: 36745, Stop: 36305, Start Num: 69

Candidate Starts for Phrankenstein_51:

(Start: 69 @36745 has 34 MA's), (Start: 95 @36643 has 3 MA's), (125, 36466), (133, 36427), (134, 36424), (136, 36415), (155, 36349),

Gene: Phranny_65 Start: 39493, Stop: 39017, Start Num: 31

Candidate Starts for Phranny_65:

(Start: 31 @39493 has 240 MA's), (147, 39079), (153, 39061), (164, 39028),

Gene: Phrappuccino_127 Start: 92973, Stop: 93443, Start Num: 64

Candidate Starts for Phrappuccino_127:

(Start: 64 @92973 has 18 MA's), (65, 92979), (Start: 76 @93000 has 1 MA's), (84, 93024), (117, 93201), (153, 93378), (175, 93438),

Gene: PhrostyMug_60 Start: 42305, Stop: 41811, Start Num: 30

Candidate Starts for PhrostyMug_60:

(Start: 30 @42305 has 168 MA's), (155, 41900), (177, 41861),

Gene: PickleBack_59 Start: 39734, Stop: 39276, Start Num: 62

Candidate Starts for PickleBack_59:

(Start: 62 @39734 has 38 MA's), (Start: 91 @39632 has 3 MA's), (104, 39572), (110, 39536), (134, 39395), (155, 39320), (165, 39290),

Gene: PinkPlastic_60 Start: 40448, Stop: 39939, Start Num: 30

Candidate Starts for PinkPlastic_60:

(Start: 30 @40448 has 168 MA's), (Start: 91 @40334 has 3 MA's), (133, 40106), (155, 40028), (177, 39989),

Gene: Pinto_60 Start: 40635, Stop: 40147, Start Num: 30

Candidate Starts for Pinto_60:

(Start: 30 @40635 has 168 MA's), (Start: 91 @40521 has 3 MA's), (128, 40314), (133, 40293), (155, 40215), (177, 40176),

Gene: Pipcraft_56 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Pipcraft_56:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Pippin_60 Start: 40237, Stop: 39761, Start Num: 30

Candidate Starts for Pippin_60:

(Start: 30 @40237 has 168 MA's), (155, 39832), (177, 39793),

Gene: Piro94_62 Start: 39944, Stop: 39471, Start Num: 40

Candidate Starts for Piro94_62:

(Start: 38 @39950 has 3 MA's), (Start: 40 @39944 has 121 MA's), (Start: 93 @39815 has 1 MA's), (130, 39614),

Gene: Pistachio_62 Start: 38926, Stop: 38468, Start Num: 31

Candidate Starts for Pistachio_62:

(4, 39088), (6, 39049), (Start: 31 @38926 has 240 MA's), (86, 38848), (87, 38845), (104, 38746), (155, 38497), (160, 38479),

Gene: Pita2_62 Start: 40832, Stop: 40344, Start Num: 30

Candidate Starts for Pita2_62:

(Start: 30 @40832 has 168 MA's), (Start: 91 @40718 has 3 MA's), (133, 40490), (155, 40412),

Gene: Pmask_62 Start: 38586, Stop: 38083, Start Num: 40

Candidate Starts for Pmask_62:

(Start: 40 @38586 has 121 MA's), (Start: 43 @38583 has 18 MA's), (130, 38259),

Gene: Pocahontas_60 Start: 39335, Stop: 38877, Start Num: 31

Candidate Starts for Pocahontas_60:

(Start: 31 @39335 has 240 MA's), (86, 39257), (87, 39254), (104, 39155), (126, 39020), (153, 38912), (160, 38888),

Gene: Polymorphads_59 Start: 38971, Stop: 38501, Start Num: 31

Candidate Starts for Polymorphads_59:

(Start: 31 @38971 has 240 MA's), (104, 38782),

Gene: Pomar16_62 Start: 39652, Stop: 39155, Start Num: 31

Candidate Starts for Pomar16_62:

(Start: 31 @39652 has 240 MA's), (Start: 59 @39616 has 15 MA's), (Start: 80 @39574 has 3 MA's), (86, 39562), (130, 39304), (140, 39259),

Gene: Poompha_57 Start: 38136, Stop: 37651, Start Num: 31

Candidate Starts for Poompha_57:

(Start: 31 @38136 has 240 MA's), (104, 37944), (158, 37683), (165, 37665),

Gene: Popcicle_60 Start: 39335, Stop: 38877, Start Num: 31

Candidate Starts for Popcicle_60:

(Start: 31 @39335 has 240 MA's), (86, 39257), (87, 39254), (104, 39155), (126, 39020), (153, 38912), (160, 38888),

Gene: Porcelain_126 Start: 68336, Stop: 68818, Start Num: 35

Candidate Starts for Porcelain_126:

(Start: 20 @68300 has 2 MA's), (Start: 35 @68336 has 38 MA's), (120, 68630), (125, 68660), (126, 68663), (133, 68699),

Gene: Porky_21 Start: 12697, Stop: 13167, Start Num: 82

Candidate Starts for Porky_21:

(Start: 62 @12652 has 38 MA's), (Start: 82 @12697 has 3 MA's), (121, 12949), (143, 13045),

Gene: PotatoSplit_65 Start: 39631, Stop: 39149, Start Num: 25

Candidate Starts for PotatoSplit_65:

(Start: 25 @39631 has 23 MA's), (Start: 31 @39625 has 240 MA's), (Start: 80 @39550 has 3 MA's), (153, 39193), (164, 39160),

Gene: Pound_119 Start: 69558, Stop: 70034, Start Num: 35

Candidate Starts for Pound_119:

(Start: 35 @69558 has 38 MA's), (125, 69876), (126, 69879), (133, 69915), (153, 69987), (159, 70008),

Gene: Power_61 Start: 39955, Stop: 39482, Start Num: 40
Candidate Starts for Power_61:
(Start: 23 @39979 has 1 MA's), (Start: 38 @39961 has 3 MA's), (Start: 40 @39955 has 121 MA's),
(Start: 93 @39826 has 1 MA's), (130, 39625),

Gene: Priamo_65 Start: 38402, Stop: 37899, Start Num: 40
Candidate Starts for Priamo_65:
(Start: 40 @38402 has 121 MA's), (Start: 43 @38399 has 18 MA's), (130, 38075),

Gene: Priya_62 Start: 39761, Stop: 39297, Start Num: 40
Candidate Starts for Priya_62:
(Start: 40 @39761 has 121 MA's), (130, 39446),

Gene: Pukovnik_60 Start: 40454, Stop: 39969, Start Num: 38
Candidate Starts for Pukovnik_60:
(Start: 38 @40454 has 3 MA's), (Start: 40 @40448 has 121 MA's), (Start: 93 @40319 has 1 MA's),
(130, 40118),

Gene: Pumbaa_58 Start: 38923, Stop: 38453, Start Num: 31
Candidate Starts for Pumbaa_58:
(Start: 31 @38923 has 240 MA's), (104, 38734),

Gene: Pumpkin_23 Start: 12895, Stop: 13410, Start Num: 62
Candidate Starts for Pumpkin_23:
(Start: 62 @12895 has 38 MA's), (Start: 82 @12940 has 3 MA's), (121, 13192), (143, 13288),

Gene: Puppy_62 Start: 38998, Stop: 38540, Start Num: 31
Candidate Starts for Puppy_62:
(4, 39160), (6, 39121), (Start: 31 @38998 has 240 MA's), (86, 38920), (87, 38917), (104, 38818), (155,
38569), (160, 38551),

Gene: PurpleHaze_64 Start: 39506, Stop: 39030, Start Num: 31
Candidate Starts for PurpleHaze_64:
(Start: 31 @39506 has 240 MA's), (147, 39092), (153, 39074), (164, 39041),

Gene: QTRlifeCrisis_62 Start: 40840, Stop: 40361, Start Num: 60
Candidate Starts for QTRlifeCrisis_62:
(Start: 20 @40873 has 2 MA's), (Start: 60 @40840 has 4 MA's), (Start: 91 @40735 has 3 MA's), (133,
40507), (155, 40429),

Gene: QueenB2_61 Start: 39933, Stop: 39460, Start Num: 40
Candidate Starts for QueenB2_61:
(Start: 23 @39957 has 1 MA's), (Start: 38 @39939 has 3 MA's), (Start: 40 @39933 has 121 MA's),
(Start: 93 @39804 has 1 MA's), (130, 39603),

Gene: QueenBeesly_62 Start: 39902, Stop: 39429, Start Num: 40
Candidate Starts for QueenBeesly_62:
(Start: 23 @39926 has 1 MA's), (Start: 38 @39908 has 3 MA's), (Start: 40 @39902 has 121 MA's),
(Start: 93 @39773 has 1 MA's), (130, 39572),

Gene: QuinnKiro_59 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for QuinnKiro_59:

(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (153, 38915), (160, 38891),

Gene: REQ2_71 Start: 43984, Stop: 44421, Start Num: 78
Candidate Starts for REQ2_71:
(78, 43984),

Gene: RER2_44 Start: 33569, Stop: 33231, Start Num: 95
Candidate Starts for RER2_44:
(Start: 69 @33671 has 34 MA's), (Start: 95 @33569 has 3 MA's), (125, 33392), (133, 33353), (134, 33350), (136, 33341), (155, 33275),

Gene: RGL3_45 Start: 34664, Stop: 34167, Start Num: 69
Candidate Starts for RGL3_45:
(Start: 69 @34664 has 34 MA's), (121, 34409), (125, 34385), (128, 34370), (133, 34346), (136, 34334), (162, 34244),

Gene: Rachaly_60 Start: 40054, Stop: 39575, Start Num: 40
Candidate Starts for Rachaly_60:
(24, 40075), (Start: 38 @40060 has 3 MA's), (Start: 40 @40054 has 121 MA's), (Start: 93 @39925 has 1 MA's), (130, 39724),

Gene: Rahalelujah_63 Start: 39667, Stop: 39203, Start Num: 40
Candidate Starts for Rahalelujah_63:
(Start: 40 @39667 has 121 MA's), (126, 39373), (130, 39352),

Gene: Rajelicia_61 Start: 42461, Stop: 41967, Start Num: 30
Candidate Starts for Rajelicia_61:
(Start: 30 @42461 has 168 MA's), (155, 42056), (177, 42017),

Gene: Rasputin_51 Start: 36769, Stop: 36329, Start Num: 69
Candidate Starts for Rasputin_51:
(Start: 69 @36769 has 34 MA's), (Start: 95 @36667 has 3 MA's), (125, 36490), (133, 36451), (134, 36448), (136, 36439), (155, 36373),

Gene: ReMo_68 Start: 39694, Stop: 39326, Start Num: 89
Candidate Starts for ReMo_68:
(22, 39802), (Start: 33 @39784 has 9 MA's), (Start: 89 @39694 has 12 MA's), (125, 39484), (157, 39358), (164, 39340),

Gene: Reba_64 Start: 39166, Stop: 38690, Start Num: 31
Candidate Starts for Reba_64:
(Start: 31 @39166 has 240 MA's), (147, 38752), (153, 38734), (164, 38701),

Gene: Rebeuca_59 Start: 39274, Stop: 38789, Start Num: 31
Candidate Starts for Rebeuca_59:
(9, 39340), (Start: 31 @39274 has 240 MA's), (104, 39082), (153, 38839), (159, 38818), (160, 38815), (165, 38803),

Gene: RedRock_63 Start: 40708, Stop: 40244, Start Num: 40
Candidate Starts for RedRock_63:
(22, 40732), (Start: 38 @40714 has 3 MA's), (Start: 40 @40708 has 121 MA's), (121, 40441), (130, 40393),

Gene: RedWattleHog_2 Start: 2195, Stop: 2695, Start Num: 50

Candidate Starts for RedWattleHog_2:

(Start: 50 @2195 has 5 MA's), (58, 2204), (Start: 68 @2222 has 3 MA's), (146, 2591),

Gene: Redno2_122 Start: 68608, Stop: 69084, Start Num: 35

Candidate Starts for Redno2_122:

(Start: 35 @68608 has 38 MA's), (125, 68926), (126, 68929), (133, 68965), (153, 69037), (159, 69058),

Gene: Refuge_59 Start: 40894, Stop: 40418, Start Num: 39

Candidate Starts for Refuge_59:

(Start: 39 @40894 has 5 MA's), (126, 40588), (130, 40567), (155, 40474),

Gene: Relief_57 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Relief_57:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Remus_70 Start: 39685, Stop: 39317, Start Num: 89

Candidate Starts for Remus_70:

(22, 39793), (Start: 33 @39775 has 9 MA's), (Start: 89 @39685 has 12 MA's), (125, 39475), (157, 39349), (164, 39331),

Gene: Reptar3000_73 Start: 46975, Stop: 47466, Start Num: 50

Candidate Starts for Reptar3000_73:

(Start: 42 @46966 has 4 MA's), (Start: 50 @46975 has 5 MA's), (Start: 64 @46990 has 18 MA's), (Start: 70 @47002 has 1 MA's), (83, 47038), (90, 47074), (Start: 91 @47092 has 3 MA's), (Start: 95 @47110 has 3 MA's), (120, 47254), (121, 47260), (131, 47323), (139, 47359), (142, 47362), (161, 47431), (172, 47455),

Gene: ResDef_60 Start: 39338, Stop: 38880, Start Num: 31

Candidate Starts for ResDef_60:

(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (153, 38915), (160, 38891),

Gene: Retro23_63 Start: 40147, Stop: 39674, Start Num: 40

Candidate Starts for Retro23_63:

(Start: 23 @40171 has 1 MA's), (Start: 38 @40153 has 3 MA's), (Start: 40 @40147 has 121 MA's), (Start: 93 @40018 has 1 MA's), (130, 39817),

Gene: RexFury_50 Start: 36830, Stop: 36390, Start Num: 69

Candidate Starts for RexFury_50:

(Start: 69 @36830 has 34 MA's), (Start: 95 @36728 has 3 MA's), (125, 36551), (133, 36512), (134, 36509), (136, 36500), (155, 36434),

Gene: Rhodalysa_51 Start: 36799, Stop: 36359, Start Num: 69

Candidate Starts for Rhodalysa_51:

(Start: 69 @36799 has 34 MA's), (Start: 95 @36697 has 3 MA's), (125, 36520), (133, 36481), (134, 36478), (136, 36469), (155, 36403),

Gene: RhynO_59 Start: 39076, Stop: 38591, Start Num: 31

Candidate Starts for RhynO_59:

(9, 39142), (Start: 31 @39076 has 240 MA's), (104, 38884), (153, 38641), (165, 38605),

Gene: Rhynn_58 Start: 40371, Stop: 39877, Start Num: 51
Candidate Starts for Rhynn_58:
(Start: 51 @40371 has 18 MA's), (155, 39966), (177, 39927),

Gene: RidgeCB_59 Start: 40611, Stop: 40120, Start Num: 30
Candidate Starts for RidgeCB_59:
(Start: 30 @40611 has 168 MA's), (Start: 91 @40497 has 3 MA's), (128, 40290), (133, 40269), (155, 40191), (177, 40152),

Gene: Rifter_64 Start: 38194, Stop: 37691, Start Num: 40
Candidate Starts for Rifter_64:
(Start: 40 @38194 has 121 MA's), (Start: 43 @38191 has 18 MA's), (130, 37867),

Gene: Ringer_59 Start: 41503, Stop: 41027, Start Num: 30
Candidate Starts for Ringer_59:
(Start: 30 @41503 has 168 MA's), (155, 41098), (177, 41059),

Gene: Roary_65 Start: 39540, Stop: 39052, Start Num: 62
Candidate Starts for Roary_65:
(48, 39546), (Start: 62 @39540 has 38 MA's), (Start: 91 @39438 has 3 MA's), (104, 39378), (155, 39099),

Gene: Rockstar_59 Start: 38832, Stop: 38374, Start Num: 31
Candidate Starts for Rockstar_59:
(Start: 31 @38832 has 240 MA's), (86, 38754), (87, 38751), (Start: 100 @38673 has 1 MA's), (104, 38652), (155, 38403), (160, 38385),

Gene: Rohr_61 Start: 41829, Stop: 41320, Start Num: 30
Candidate Starts for Rohr_61:
(Start: 30 @41829 has 168 MA's), (Start: 91 @41715 has 3 MA's), (133, 41487), (155, 41409), (177, 41370),

Gene: Roksolana_65 Start: 39025, Stop: 38525, Start Num: 43
Candidate Starts for Roksolana_65:
(Start: 40 @39028 has 121 MA's), (Start: 43 @39025 has 18 MA's), (130, 38701),

Gene: Romney_57 Start: 38975, Stop: 38505, Start Num: 31
Candidate Starts for Romney_57:
(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Roosevelt_57 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Roosevelt_57:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Rosalind_68 Start: 39942, Stop: 39484, Start Num: 33
Candidate Starts for Rosalind_68:
(22, 39960), (Start: 33 @39942 has 9 MA's), (Start: 89 @39852 has 12 MA's), (125, 39642), (157, 39516), (164, 39498),

Gene: RosePharie_70 Start: 35737, Stop: 36186, Start Num: 41
Candidate Starts for RosePharie_70:

(Start: 41 @35737 has 1 MA's), (Start: 97 @35896 has 1 MA's), (106, 35941), (110, 35956), (113, 35980), (120, 36025), (125, 36055), (126, 36058), (132, 36088), (144, 36133),

Gene: Rubeus_59 Start: 38428, Stop: 37940, Start Num: 30

Candidate Starts for Rubeus_59:

(Start: 30 @38428 has 168 MA's), (Start: 91 @38314 has 3 MA's), (128, 38107), (133, 38086), (155, 38008), (177, 37969),

Gene: Rufus_61 Start: 41112, Stop: 40603, Start Num: 30

Candidate Starts for Rufus_61:

(Start: 30 @41112 has 168 MA's), (Start: 91 @40998 has 3 MA's), (128, 40791), (133, 40770), (155, 40692), (177, 40653),

Gene: Ruin_58 Start: 38971, Stop: 38501, Start Num: 31

Candidate Starts for Ruin_58:

(Start: 31 @38971 has 240 MA's), (104, 38782),

Gene: Rummer_63 Start: 39655, Stop: 39173, Start Num: 25

Candidate Starts for Rummer_63:

(Start: 25 @39655 has 23 MA's), (Start: 31 @39649 has 240 MA's), (Start: 80 @39574 has 3 MA's), (153, 39217), (164, 39184),

Gene: Ruotula_62 Start: 42625, Stop: 42149, Start Num: 30

Candidate Starts for Ruotula_62:

(Start: 30 @42625 has 168 MA's), (155, 42220), (177, 42181),

Gene: Rutherferd_62 Start: 42187, Stop: 41699, Start Num: 51

Candidate Starts for Rutherferd_62:

(Start: 51 @42187 has 18 MA's), (155, 41788), (177, 41749),

Gene: Ruthiejr_77 Start: 48468, Stop: 48944, Start Num: 64

Candidate Starts for Ruthiejr_77:

(Start: 42 @48444 has 4 MA's), (Start: 50 @48453 has 5 MA's), (Start: 64 @48468 has 18 MA's), (Start: 70 @48480 has 1 MA's), (83, 48516), (90, 48552), (Start: 91 @48570 has 3 MA's), (Start: 95 @48588 has 3 MA's), (131, 48801), (139, 48837), (142, 48840), (161, 48909), (172, 48933),

Gene: Ryadel_12 Start: 3926, Stop: 3441, Start Num: 71

Candidate Starts for Ryadel_12:

(Start: 71 @3926 has 29 MA's), (123, 3653), (124, 3641), (167, 3482),

Gene: STLscum_62 Start: 41452, Stop: 40943, Start Num: 21

Candidate Starts for STLscum_62:

(Start: 21 @41452 has 1 MA's), (Start: 30 @41431 has 168 MA's), (Start: 91 @41317 has 3 MA's), (133, 41089), (134, 41086), (155, 41011),

Gene: Sabertooth_58 Start: 38980, Stop: 38510, Start Num: 31

Candidate Starts for Sabertooth_58:

(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Sabia_64 Start: 39636, Stop: 39154, Start Num: 25

Candidate Starts for Sabia_64:

(Start: 25 @39636 has 23 MA's), (Start: 31 @39630 has 240 MA's), (Start: 80 @39555 has 3 MA's), (153, 39198), (164, 39165),

Gene: Sabinator_63 Start: 39620, Stop: 39144, Start Num: 31
Candidate Starts for Sabinator_63:
(Start: 25 @39626 has 23 MA's), (Start: 31 @39620 has 240 MA's), (Start: 80 @39545 has 3 MA's),
(153, 39188), (164, 39155),

Gene: Sagefire_62 Start: 42491, Stop: 41997, Start Num: 30
Candidate Starts for Sagefire_62:
(Start: 30 @42491 has 168 MA's), (155, 42086), (177, 42047),

Gene: Saintus_59 Start: 36205, Stop: 35717, Start Num: 62
Candidate Starts for Saintus_59:
(48, 36211), (Start: 62 @36205 has 38 MA's), (Start: 91 @36103 has 3 MA's), (104, 36043), (155,
35764),

Gene: Salz_60 Start: 38758, Stop: 38393, Start Num: 91
Candidate Starts for Salz_60:
(Start: 32 @38890 has 14 MA's), (Start: 59 @38854 has 15 MA's), (Start: 80 @38812 has 3 MA's),
(Start: 91 @38758 has 3 MA's), (Start: 100 @38719 has 1 MA's), (120, 38596), (127, 38554), (130,
38542), (170, 38407),

Gene: SamScheppers_75 Start: 48848, Stop: 49324, Start Num: 64
Candidate Starts for SamScheppers_75:
(Start: 42 @48824 has 4 MA's), (Start: 64 @48848 has 18 MA's), (Start: 70 @48860 has 1 MA's), (83,
48896), (90, 48932), (Start: 91 @48950 has 3 MA's), (Start: 95 @48968 has 3 MA's), (120, 49112),
(121, 49118), (131, 49181), (139, 49217), (142, 49220), (161, 49289), (172, 49313),

Gene: SarFire_56 Start: 39557, Stop: 39090, Start Num: 30
Candidate Starts for SarFire_56:
(Start: 30 @39557 has 168 MA's), (108, 39383), (133, 39236), (155, 39158),

Gene: SaturnRing_61 Start: 39379, Stop: 38921, Start Num: 31
Candidate Starts for SaturnRing_61:
(4, 39541), (6, 39502), (Start: 31 @39379 has 240 MA's), (86, 39301), (87, 39298), (104, 39199), (155,
38950), (160, 38932),

Gene: Scamp_58 Start: 38980, Stop: 38510, Start Num: 31
Candidate Starts for Scamp_58:
(Start: 31 @38980 has 240 MA's), (104, 38791),

Gene: Schatzie_126 Start: 71271, Stop: 71747, Start Num: 35
Candidate Starts for Schatzie_126:
(18, 71226), (Start: 35 @71271 has 38 MA's), (125, 71589), (126, 71592), (133, 71628), (153, 71700),
(159, 71721),

Gene: Scherzo_64 Start: 40323, Stop: 39859, Start Num: 40
Candidate Starts for Scherzo_64:
(Start: 40 @40323 has 121 MA's), (121, 40056), (126, 40029), (130, 40008), (153, 39921),

Gene: SchoolBus_9 Start: 3151, Stop: 2666, Start Num: 71
Candidate Starts for SchoolBus_9:
(Start: 71 @3151 has 29 MA's), (88, 3091), (123, 2878), (124, 2866), (167, 2707),

Gene: Schuy_10 Start: 3349, Stop: 2729, Start Num: 71
Candidate Starts for Schuy_10:
(Start: 71 @3349 has 29 MA's), (123, 3076), (124, 3064), (174, 2887), (176, 2863), (180, 2788),

Gene: Scorpia_63 Start: 40138, Stop: 39674, Start Num: 56
Candidate Starts for Scorpia_63:
(Start: 43 @40153 has 18 MA's), (Start: 56 @40138 has 25 MA's), (Start: 91 @40030 has 3 MA's),
(104, 39970), (134, 39793), (143, 39760), (155, 39718), (165, 39688),

Gene: Scout_61 Start: 38536, Stop: 38075, Start Num: 31
Candidate Starts for Scout_61:
(4, 38698), (6, 38659), (Start: 31 @38536 has 240 MA's), (87, 38452), (Start: 100 @38374 has 1
MA's), (104, 38353), (155, 38104), (160, 38086),

Gene: Scowl_60 Start: 40383, Stop: 39919, Start Num: 30
Candidate Starts for Scowl_60:
(Start: 30 @40383 has 168 MA's), (77, 40335), (Start: 95 @40275 has 3 MA's), (Start: 98 @40257 has
1 MA's), (128, 40086), (133, 40065), (155, 39987),

Gene: Seabiscuit_63 Start: 40354, Stop: 39878, Start Num: 30
Candidate Starts for Seabiscuit_63:
(Start: 30 @40354 has 168 MA's), (155, 39949), (177, 39910),

Gene: Seanderson_59 Start: 41817, Stop: 41326, Start Num: 30
Candidate Starts for Seanderson_59:
(Start: 30 @41817 has 168 MA's), (155, 41412), (177, 41373),

Gene: SemperFi_63 Start: 40170, Stop: 39697, Start Num: 40
Candidate Starts for SemperFi_63:
(Start: 23 @40194 has 1 MA's), (Start: 38 @40176 has 3 MA's), (Start: 40 @40170 has 121 MA's),
(Start: 93 @40041 has 1 MA's), (130, 39840),

Gene: Serenity_62 Start: 39280, Stop: 38822, Start Num: 59
Candidate Starts for Serenity_62:
(Start: 32 @39319 has 14 MA's), (Start: 59 @39280 has 15 MA's), (96, 39160), (127, 38980), (130,
38968), (149, 38896),

Gene: Settecandela_127 Start: 92973, Stop: 93443, Start Num: 64
Candidate Starts for Settecandela_127:
(Start: 64 @92973 has 18 MA's), (65, 92979), (Start: 76 @93000 has 1 MA's), (84, 93024), (117,
93201), (153, 93378), (175, 93438),

Gene: Severus_57 Start: 38136, Stop: 37651, Start Num: 31
Candidate Starts for Severus_57:
(Start: 31 @38136 has 240 MA's), (104, 37944), (158, 37683), (165, 37665),

Gene: Shagrat_101 Start: 53858, Stop: 54307, Start Num: 64
Candidate Starts for Shagrat_101:
(Start: 64 @53858 has 18 MA's), (78, 53897), (103, 53996), (104, 53999), (114, 54059), (121, 54107),
(134, 54188), (138, 54209),

Gene: Shaka_57 Start: 38975, Stop: 38505, Start Num: 31
Candidate Starts for Shaka_57:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Sham4_61 Start: 38882, Stop: 38421, Start Num: 59

Candidate Starts for Sham4_61:

(Start: 32 @38918 has 14 MA's), (Start: 59 @38882 has 15 MA's), (Start: 80 @38840 has 3 MA's),
(Start: 100 @38747 has 1 MA's), (120, 38624), (127, 38582), (130, 38570), (170, 38435),

Gene: ShayRa_70 Start: 39881, Stop: 39513, Start Num: 89

Candidate Starts for ShayRa_70:

(22, 39989), (Start: 33 @39971 has 9 MA's), (Start: 89 @39881 has 12 MA's), (125, 39671), (157,
39545), (164, 39527),

Gene: SheaKeira_60 Start: 39511, Stop: 39047, Start Num: 40

Candidate Starts for SheaKeira_60:

(Start: 40 @39511 has 121 MA's), (121, 39244), (130, 39196), (162, 39079),

Gene: Sheen_60 Start: 42174, Stop: 41725, Start Num: 71

Candidate Starts for Sheen_60:

(Start: 71 @42174 has 29 MA's), (73, 42168), (81, 42150), (104, 42039), (125, 41883), (128, 41868),
(142, 41811), (143, 41808), (155, 41766), (157, 41757), (160, 41748),

Gene: SheldonCooper_59 Start: 39382, Stop: 38912, Start Num: 31

Candidate Starts for SheldonCooper_59:

(18, 39415), (Start: 31 @39382 has 240 MA's), (104, 39193), (160, 38926),

Gene: Shida_10 Start: 3398, Stop: 2778, Start Num: 71

Candidate Starts for Shida_10:

(Start: 71 @3398 has 29 MA's), (123, 3125), (174, 2936), (176, 2912), (180, 2837),

Gene: Shuman_51 Start: 36753, Stop: 36313, Start Num: 69

Candidate Starts for Shuman_51:

(Start: 69 @36753 has 34 MA's), (Start: 95 @36651 has 3 MA's), (125, 36474), (133, 36435), (134,
36432), (136, 36423), (155, 36357),

Gene: Shygu2_56 Start: 38854, Stop: 38384, Start Num: 31

Candidate Starts for Shygu2_56:

(26, 38860), (Start: 31 @38854 has 240 MA's), (87, 38764), (104, 38665), (160, 38398),

Gene: Sibs6_62 Start: 39463, Stop: 38969, Start Num: 30

Candidate Starts for Sibs6_62:

(Start: 30 @39463 has 168 MA's), (155, 39058), (177, 39019),

Gene: SkiPole_64 Start: 41080, Stop: 40613, Start Num: 30

Candidate Starts for SkiPole_64:

(Start: 30 @41080 has 168 MA's), (133, 40759), (155, 40681),

Gene: Skipitt_57 Start: 38972, Stop: 38502, Start Num: 31

Candidate Starts for Skipitt_57:

(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: Slagathor_62 Start: 42823, Stop: 42329, Start Num: 51

Candidate Starts for Slagathor_62:

(Start: 51 @42823 has 18 MA's), (155, 42418), (177, 42379),

Gene: Slarp_76 Start: 48376, Stop: 48852, Start Num: 64

Candidate Starts for Slarp_76:

(Start: 42 @48352 has 4 MA's), (Start: 64 @48376 has 18 MA's), (Start: 70 @48388 has 1 MA's), (83, 48424), (90, 48460), (Start: 91 @48478 has 3 MA's), (Start: 95 @48496 has 3 MA's), (120, 48640), (121, 48646), (131, 48709), (139, 48745), (142, 48748), (161, 48817), (172, 48841),

Gene: Smairt_63 Start: 43299, Stop: 42805, Start Num: 30

Candidate Starts for Smairt_63:

(Start: 30 @43299 has 168 MA's), (155, 42894), (177, 42855),

Gene: Smeadley_64 Start: 39401, Stop: 38913, Start Num: 62

Candidate Starts for Smeadley_64:

(48, 39407), (Start: 62 @39401 has 38 MA's), (Start: 91 @39299 has 3 MA's), (104, 39239), (134, 39035), (155, 38960),

Gene: Smeagan_65 Start: 40454, Stop: 39981, Start Num: 40

Candidate Starts for Smeagan_65:

(Start: 40 @40454 has 121 MA's), (Start: 93 @40325 has 1 MA's), (130, 40124),

Gene: Smeagol_62 Start: 42613, Stop: 42152, Start Num: 74

Candidate Starts for Smeagol_62:

(Start: 51 @42646 has 18 MA's), (Start: 74 @42613 has 1 MA's), (155, 42241), (177, 42202),

Gene: SmellyB_63 Start: 38580, Stop: 38080, Start Num: 43

Candidate Starts for SmellyB_63:

(Start: 40 @38583 has 121 MA's), (Start: 43 @38580 has 18 MA's), (130, 38256),

Gene: Smooch_11 Start: 3755, Stop: 3270, Start Num: 71

Candidate Starts for Smooch_11:

(Start: 71 @3755 has 29 MA's), (88, 3695), (123, 3482), (124, 3470),

Gene: Smoothie_135 Start: 74334, Stop: 74777, Start Num: 71

Candidate Starts for Smoothie_135:

(Start: 51 @74307 has 18 MA's), (Start: 71 @74334 has 29 MA's), (Start: 72 @74337 has 3 MA's), (133, 74655), (155, 74733),

Gene: SnapTap_62 Start: 39981, Stop: 39508, Start Num: 40

Candidate Starts for SnapTap_62:

(Start: 23 @40005 has 1 MA's), (Start: 38 @39987 has 3 MA's), (Start: 40 @39981 has 121 MA's), (Start: 93 @39852 has 1 MA's), (130, 39651),

Gene: Snape_61 Start: 38874, Stop: 38413, Start Num: 59

Candidate Starts for Snape_61:

(Start: 32 @38910 has 14 MA's), (Start: 59 @38874 has 15 MA's), (Start: 80 @38832 has 3 MA's), (Start: 100 @38739 has 1 MA's), (120, 38616), (127, 38574), (130, 38562), (170, 38427),

Gene: Snazzy_58 Start: 39917, Stop: 39441, Start Num: 30

Candidate Starts for Snazzy_58:

(Start: 30 @39917 has 168 MA's), (155, 39512), (177, 39473),

Gene: Snickers_63 Start: 39601, Stop: 39119, Start Num: 25

Candidate Starts for Snickers_63:

(Start: 25 @39601 has 23 MA's), (Start: 31 @39595 has 240 MA's), (Start: 80 @39520 has 3 MA's),
(153, 39163), (164, 39130),

Gene: SoYo_64 Start: 39539, Stop: 39057, Start Num: 25

Candidate Starts for SoYo_64:

(Start: 25 @39539 has 23 MA's), (Start: 31 @39533 has 240 MA's), (Start: 80 @39458 has 3 MA's),
(153, 39101), (164, 39068),

Gene: SoilDragon_64 Start: 39069, Stop: 38593, Start Num: 31

Candidate Starts for SoilDragon_64:

(Start: 25 @39075 has 23 MA's), (Start: 31 @39069 has 240 MA's), (Start: 80 @38994 has 3 MA's),
(153, 38637), (164, 38604),

Gene: Solon_57 Start: 39789, Stop: 39313, Start Num: 30

Candidate Starts for Solon_57:

(Start: 30 @39789 has 168 MA's), (155, 39384), (177, 39345),

Gene: SororFago_62 Start: 40593, Stop: 40114, Start Num: 40

Candidate Starts for SororFago_62:

(Start: 23 @40626 has 1 MA's), (Start: 40 @40593 has 121 MA's), (118, 40320), (130, 40257), (155,
40164), (168, 40125),

Gene: Soshari_66 Start: 39645, Stop: 39169, Start Num: 31

Candidate Starts for Soshari_66:

(Start: 25 @39651 has 23 MA's), (Start: 31 @39645 has 240 MA's), (Start: 80 @39570 has 3 MA's),
(153, 39213), (164, 39180),

Gene: Soups_70 Start: 40234, Stop: 39776, Start Num: 33

Candidate Starts for Soups_70:

(22, 40252), (Start: 33 @40234 has 9 MA's), (Start: 89 @40144 has 12 MA's), (125, 39934), (157,
39808), (164, 39790),

Gene: Sparxx_59 Start: 38973, Stop: 38503, Start Num: 31

Candidate Starts for Sparxx_59:

(Start: 31 @38973 has 240 MA's), (104, 38784),

Gene: Spike509_64 Start: 39646, Stop: 39170, Start Num: 31

Candidate Starts for Spike509_64:

(Start: 25 @39652 has 23 MA's), (Start: 31 @39646 has 240 MA's), (Start: 80 @39571 has 3 MA's),
(153, 39214), (164, 39181),

Gene: SpikeBT_58 Start: 40212, Stop: 39724, Start Num: 30

Candidate Starts for SpikeBT_58:

(Start: 30 @40212 has 168 MA's), (Start: 91 @40098 has 3 MA's), (133, 39870), (155, 39792),

Gene: Spino_57 Start: 38978, Stop: 38508, Start Num: 31

Candidate Starts for Spino_57:

(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: Squee_60 Start: 40635, Stop: 40159, Start Num: 30

Candidate Starts for Squee_60:

(Start: 30 @40635 has 168 MA's), (133, 40308), (155, 40230), (177, 40191),

Gene: Squint_125 Start: 68099, Stop: 68599, Start Num: 35

Candidate Starts for Squint_125:

(Start: 20 @68063 has 2 MA's), (Start: 35 @68099 has 38 MA's), (Start: 100 @68285 has 1 MA's), (120, 68408), (136, 68486), (139, 68501), (145, 68522), (150, 68540),

Gene: StCroix_50 Start: 36821, Stop: 36381, Start Num: 69

Candidate Starts for StCroix_50:

(Start: 69 @36821 has 34 MA's), (Start: 95 @36719 has 3 MA's), (125, 36542), (133, 36503), (134, 36500), (136, 36491), (155, 36425),

Gene: Stagni_64 Start: 39630, Stop: 39148, Start Num: 25

Candidate Starts for Stagni_64:

(Start: 25 @39630 has 23 MA's), (Start: 31 @39624 has 240 MA's), (Start: 80 @39549 has 3 MA's), (153, 39192), (164, 39159),

Gene: Stank_24 Start: 13327, Stop: 13842, Start Num: 62

Candidate Starts for Stank_24:

(Start: 62 @13327 has 38 MA's), (Start: 82 @13372 has 3 MA's), (121, 13624), (143, 13720),

Gene: StarStuff_63 Start: 39578, Stop: 39117, Start Num: 59

Candidate Starts for StarStuff_63:

(Start: 31 @39614 has 240 MA's), (Start: 59 @39578 has 15 MA's), (Start: 80 @39536 has 3 MA's), (130, 39266), (140, 39221),

Gene: Stasia_56 Start: 38728, Stop: 38258, Start Num: 31

Candidate Starts for Stasia_56:

(26, 38734), (Start: 31 @38728 has 240 MA's), (87, 38638), (104, 38539), (147, 38314), (160, 38272),

Gene: Steamy_58 Start: 39493, Stop: 39017, Start Num: 39

Candidate Starts for Steamy_58:

(Start: 39 @39493 has 5 MA's), (121, 39214), (130, 39166), (155, 39073),

Gene: StepMih_63 Start: 39615, Stop: 39139, Start Num: 31

Candidate Starts for StepMih_63:

(Start: 25 @39621 has 23 MA's), (Start: 31 @39615 has 240 MA's), (Start: 80 @39540 has 3 MA's), (153, 39183), (164, 39150),

Gene: Stephig9_63 Start: 39335, Stop: 38874, Start Num: 62

Candidate Starts for Stephig9_63:

(48, 39341), (Start: 62 @39335 has 38 MA's), (Start: 91 @39233 has 3 MA's), (104, 39173), (155, 38921),

Gene: SteveFrench_16 Start: 15937, Stop: 16392, Start Num: 45

Candidate Starts for SteveFrench_16:

(8, 15832), (22, 15898), (Start: 45 @15937 has 2 MA's), (61, 15955), (Start: 89 @16036 has 12 MA's), (108, 16144), (111, 16162), (140, 16327), (153, 16369),

Gene: StewieG_56 Start: 37309, Stop: 36833, Start Num: 30

Candidate Starts for StewieG_56:

(Start: 30 @37309 has 168 MA's), (155, 36904), (177, 36865),

Gene: Stink_52 Start: 38544, Stop: 38074, Start Num: 31

Candidate Starts for Stink_52:

(16, 38583), (18, 38577), (Start: 31 @38544 has 240 MA's), (104, 38355), (160, 38088),

Gene: Stormageddon_2 Start: 2195, Stop: 2695, Start Num: 50

Candidate Starts for Stormageddon_2:

(Start: 50 @2195 has 5 MA's), (58, 2204), (Start: 68 @2222 has 3 MA's), (146, 2591),

Gene: StrongArm_58 Start: 41327, Stop: 40839, Start Num: 30

Candidate Starts for StrongArm_58:

(Start: 30 @41327 has 168 MA's), (Start: 91 @41213 has 3 MA's), (133, 40985), (155, 40907),

Gene: Strosahl_70 Start: 39685, Stop: 39317, Start Num: 89

Candidate Starts for Strosahl_70:

(22, 39793), (Start: 33 @39775 has 9 MA's), (Start: 89 @39685 has 12 MA's), (125, 39475), (157, 39349), (164, 39331),

Gene: Sumter_55 Start: 40525, Stop: 40049, Start Num: 30

Candidate Starts for Sumter_55:

(Start: 30 @40525 has 168 MA's), (155, 40120), (177, 40081),

Gene: Sunshine924_61 Start: 39697, Stop: 39218, Start Num: 60

Candidate Starts for Sunshine924_61:

(Start: 20 @39730 has 2 MA's), (Start: 60 @39697 has 4 MA's), (Start: 91 @39592 has 3 MA's), (133, 39364), (155, 39286),

Gene: SuperAwesome_63 Start: 38585, Stop: 38085, Start Num: 43

Candidate Starts for SuperAwesome_63:

(Start: 40 @38588 has 121 MA's), (Start: 43 @38585 has 18 MA's), (130, 38261),

Gene: SuperCallie99_60 Start: 38467, Stop: 37967, Start Num: 43

Candidate Starts for SuperCallie99_60:

(Start: 40 @38470 has 121 MA's), (Start: 43 @38467 has 18 MA's), (121, 38191), (130, 38143),

Gene: Superchunk_61 Start: 38582, Stop: 38100, Start Num: 36

Candidate Starts for Superchunk_61:

(Start: 36 @38582 has 3 MA's), (130, 38246), (147, 38177),

Gene: Superphikiman_125 Start: 67553, Stop: 68035, Start Num: 35

Candidate Starts for Superphikiman_125:

(Start: 35 @67553 has 38 MA's), (120, 67847), (125, 67877), (126, 67880), (133, 67916),

Gene: Swann_51 Start: 36797, Stop: 36357, Start Num: 69

Candidate Starts for Swann_51:

(Start: 69 @36797 has 34 MA's), (Start: 95 @36695 has 3 MA's), (125, 36518), (133, 36479), (134, 36476), (136, 36467), (155, 36401),

Gene: SweetiePie_62 Start: 40119, Stop: 39640, Start Num: 38

Candidate Starts for SweetiePie_62:

(Start: 23 @40137 has 1 MA's), (Start: 38 @40119 has 3 MA's), (Start: 40 @40113 has 121 MA's), (Start: 93 @39984 has 1 MA's), (130, 39783),

Gene: Swirley_59 Start: 39758, Stop: 39294, Start Num: 56

Candidate Starts for Swirley_59:

(Start: 43 @39773 has 18 MA's), (Start: 56 @39758 has 25 MA's), (Start: 91 @39650 has 3 MA's), (104, 39590), (134, 39413), (155, 39338), (165, 39308),

Gene: SwissCheese_60 Start: 40105, Stop: 39629, Start Num: 30

Candidate Starts for SwissCheese_60:

(Start: 30 @40105 has 168 MA's), (155, 39700), (177, 39661),

Gene: Switzer_60 Start: 42152, Stop: 41685, Start Num: 30

Candidate Starts for Switzer_60:

(Start: 30 @42152 has 168 MA's), (133, 41831), (155, 41753),

Gene: Switzerland_69 Start: 40020, Stop: 39652, Start Num: 89

Candidate Starts for Switzerland_69:

(22, 40128), (Start: 33 @40110 has 9 MA's), (Start: 89 @40020 has 12 MA's), (125, 39810), (157, 39684), (164, 39666),

Gene: Swole_60 Start: 40742, Stop: 40233, Start Num: 30

Candidate Starts for Swole_60:

(Start: 30 @40742 has 168 MA's), (Start: 91 @40628 has 3 MA's), (133, 40400), (155, 40322), (177, 40283),

Gene: SydNat_60 Start: 40376, Stop: 39912, Start Num: 56

Candidate Starts for SydNat_60:

(Start: 43 @40391 has 18 MA's), (Start: 56 @40376 has 25 MA's), (Start: 91 @40268 has 3 MA's), (104, 40208), (134, 40031), (143, 39998), (155, 39956), (165, 39926),

Gene: TNguyen7_62 Start: 39345, Stop: 38887, Start Num: 31

Candidate Starts for TNguyen7_62:

(4, 39507), (6, 39468), (Start: 31 @39345 has 240 MA's), (86, 39267), (87, 39264), (104, 39165), (155, 38916), (160, 38898),

Gene: TPA4_77 Start: 51945, Stop: 52427, Start Num: 55

Candidate Starts for TPA4_77:

(55, 51945), (Start: 74 @51981 has 1 MA's), (114, 52194),

Gene: TWAMP_51 Start: 36799, Stop: 36359, Start Num: 69

Candidate Starts for TWAMP_51:

(Start: 69 @36799 has 34 MA's), (Start: 95 @36697 has 3 MA's), (125, 36520), (133, 36481), (134, 36478), (136, 36469), (155, 36403),

Gene: Takoda_51 Start: 36982, Stop: 36542, Start Num: 69

Candidate Starts for Takoda_51:

(Start: 69 @36982 has 34 MA's), (Start: 80 @36952 has 3 MA's), (Start: 95 @36880 has 3 MA's), (125, 36703), (133, 36664), (134, 36661), (136, 36652), (155, 36586),

Gene: Taquarus_58 Start: 38981, Stop: 38511, Start Num: 31

Candidate Starts for Taquarus_58:

(Start: 31 @38981 has 240 MA's), (104, 38792),

Gene: Taquito_75 Start: 48581, Stop: 49057, Start Num: 64

Candidate Starts for Taquito_75:

(Start: 42 @48557 has 4 MA's), (Start: 64 @48581 has 18 MA's), (Start: 70 @48593 has 1 MA's), (83, 48629), (90, 48665), (Start: 91 @48683 has 3 MA's), (Start: 95 @48701 has 3 MA's), (131, 48914),

(139, 48950), (142, 48953), (161, 49022), (172, 49046),

Gene: Target_61 Start: 39917, Stop: 39420, Start Num: 30

Candidate Starts for Target_61:

(Start: 30 @39917 has 168 MA's), (155, 39512), (177, 39473),

Gene: TarsusIV_59 Start: 39575, Stop: 39102, Start Num: 40

Candidate Starts for TarsusIV_59:

(24, 39596), (Start: 38 @39581 has 3 MA's), (Start: 40 @39575 has 121 MA's), (Start: 93 @39446 has 1 MA's), (130, 39245),

Gene: Tarynearal_55 Start: 39197, Stop: 38739, Start Num: 62

Candidate Starts for Tarynearal_55:

(Start: 62 @39197 has 38 MA's), (Start: 91 @39095 has 3 MA's), (104, 39035), (134, 38858), (155, 38783), (165, 38753),

Gene: Tasp14_63 Start: 42472, Stop: 41978, Start Num: 30

Candidate Starts for Tasp14_63:

(Start: 30 @42472 has 168 MA's), (155, 42067), (177, 42028),

Gene: Taurus_65 Start: 39627, Stop: 39145, Start Num: 25

Candidate Starts for Taurus_65:

(Start: 25 @39627 has 23 MA's), (Start: 31 @39621 has 240 MA's), (Start: 80 @39546 has 3 MA's), (153, 39189), (164, 39156),

Gene: Teaspoon_22 Start: 12777, Stop: 13292, Start Num: 62

Candidate Starts for Teaspoon_22:

(Start: 62 @12777 has 38 MA's), (Start: 82 @12822 has 3 MA's), (121, 13074), (143, 13170),

Gene: TelAviv_9 Start: 3148, Stop: 2663, Start Num: 71

Candidate Starts for TelAviv_9:

(Start: 71 @3148 has 29 MA's), (88, 3088), (123, 2875), (124, 2863), (167, 2704),

Gene: Teodoridan_57 Start: 39474, Stop: 39133, Start Num: 98

Candidate Starts for Teodoridan_57:

(Start: 30 @39600 has 168 MA's), (77, 39552), (Start: 95 @39492 has 3 MA's), (Start: 98 @39474 has 1 MA's), (128, 39303), (133, 39282), (155, 39204), (177, 39165),

Gene: Texage_59 Start: 39339, Stop: 38881, Start Num: 31

Candidate Starts for Texage_59:

(Start: 31 @39339 has 240 MA's), (86, 39261), (87, 39258), (104, 39159), (126, 39024), (153, 38916), (160, 38892),

Gene: Thanksgivukkah_57 Start: 38976, Stop: 38506, Start Num: 31

Candidate Starts for Thanksgivukkah_57:

(Start: 31 @38976 has 240 MA's), (104, 38787),

Gene: Theia_57 Start: 40029, Stop: 39565, Start Num: 56

Candidate Starts for Theia_57:

(Start: 43 @40044 has 18 MA's), (Start: 56 @40029 has 25 MA's), (Start: 91 @39921 has 3 MA's), (104, 39861), (110, 39825), (134, 39684), (155, 39609), (165, 39579),

Gene: TheloniousMonk_60 Start: 42235, Stop: 41762, Start Num: 51

Candidate Starts for TheloniousMonk_60:
(Start: 51 @42235 has 18 MA's), (155, 41833), (177, 41794),

Gene: Thibault_112 Start: 65943, Stop: 66419, Start Num: 35
Candidate Starts for Thibault_112:
(Start: 35 @65943 has 38 MA's), (125, 66261), (126, 66264), (133, 66300), (153, 66372), (159, 66393),

Gene: Thor_56 Start: 38915, Stop: 38448, Start Num: 30
Candidate Starts for Thor_56:
(Start: 30 @38915 has 168 MA's), (108, 38741), (133, 38594), (155, 38516),

Gene: ThreeRngTarjay_126 Start: 71766, Stop: 72242, Start Num: 35
Candidate Starts for ThreeRngTarjay_126:
(18, 71721), (Start: 35 @71766 has 38 MA's), (125, 72084), (126, 72087), (133, 72123), (153, 72195), (159, 72216),

Gene: Tiffany_63 Start: 39513, Stop: 39031, Start Num: 25
Candidate Starts for Tiffany_63:
(Start: 25 @39513 has 23 MA's), (Start: 31 @39507 has 240 MA's), (Start: 80 @39432 has 3 MA's), (153, 39075), (164, 39042),

Gene: Tiger_58 Start: 39478, Stop: 39020, Start Num: 62
Candidate Starts for Tiger_58:
(Start: 62 @39478 has 38 MA's), (Start: 91 @39376 has 3 MA's), (104, 39316), (110, 39280), (134, 39139), (155, 39064), (165, 39034),

Gene: Timothy_61 Start: 38887, Stop: 38390, Start Num: 32
Candidate Starts for Timothy_61:
(Start: 32 @38887 has 14 MA's), (Start: 59 @38851 has 15 MA's), (Start: 80 @38809 has 3 MA's), (Start: 100 @38716 has 1 MA's), (120, 38593), (127, 38551), (130, 38539), (170, 38404),

Gene: Timshel_57 Start: 41460, Stop: 41023, Start Num: 64
Candidate Starts for Timshel_57:
(3, 41685), (5, 41646), (11, 41565), (26, 41511), (Start: 64 @41460 has 18 MA's), (Start: 91 @41373 has 3 MA's), (Start: 100 @41334 has 1 MA's), (133, 41142), (134, 41139), (136, 41130), (159, 41049), (160, 41046),

Gene: TinaFeyge_57 Start: 38973, Stop: 38503, Start Num: 31
Candidate Starts for TinaFeyge_57:
(Start: 31 @38973 has 240 MA's), (104, 38784),

Gene: TinyTimmy_59 Start: 38936, Stop: 38439, Start Num: 32
Candidate Starts for TinyTimmy_59:
(Start: 32 @38936 has 14 MA's), (Start: 59 @38900 has 15 MA's), (Start: 80 @38858 has 3 MA's), (Start: 91 @38804 has 3 MA's), (Start: 100 @38765 has 1 MA's), (120, 38642), (127, 38600), (130, 38588), (170, 38453),

Gene: Tinybot_57 Start: 39005, Stop: 38535, Start Num: 31
Candidate Starts for Tinybot_57:
(Start: 31 @39005 has 240 MA's), (104, 38816),

Gene: TipsytheTRex_59 Start: 39350, Stop: 38892, Start Num: 59

Candidate Starts for TopsytheTRex_59:

(Start: 32 @39389 has 14 MA's), (Start: 59 @39350 has 15 MA's), (96, 39230), (127, 39050), (130, 39038), (147, 38969),

Gene: TiroTheta9_58 Start: 38972, Stop: 38502, Start Num: 31

Candidate Starts for TiroTheta9_58:

(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: Toaka_64 Start: 40139, Stop: 39675, Start Num: 40

Candidate Starts for Toaka_64:

(Start: 40 @40139 has 121 MA's), (126, 39845), (130, 39824),

Gene: Todacoro_60 Start: 39338, Stop: 38880, Start Num: 31

Candidate Starts for Todacoro_60:

(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (153, 38915), (160, 38891),

Gene: Tomathan_63 Start: 39583, Stop: 39164, Start Num: 80

Candidate Starts for Tomathan_63:

(Start: 31 @39661 has 240 MA's), (Start: 59 @39625 has 15 MA's), (Start: 80 @39583 has 3 MA's), (86, 39571), (130, 39313), (140, 39268),

Gene: ToneTone_61 Start: 38627, Stop: 38124, Start Num: 40

Candidate Starts for ToneTone_61:

(Start: 40 @38627 has 121 MA's), (Start: 43 @38624 has 18 MA's), (130, 38300),

Gene: Toniann_134 Start: 73864, Stop: 74307, Start Num: 71

Candidate Starts for Toniann_134:

(Start: 51 @73837 has 18 MA's), (Start: 71 @73864 has 29 MA's), (Start: 72 @73867 has 3 MA's), (133, 74185), (155, 74263),

Gene: Topanga_56 Start: 38918, Stop: 38433, Start Num: 31

Candidate Starts for Topanga_56:

(9, 38984), (Start: 31 @38918 has 240 MA's), (104, 38726), (153, 38483), (159, 38462), (160, 38459), (165, 38447),

Gene: Topgun_58 Start: 39675, Stop: 39199, Start Num: 51

Candidate Starts for Topgun_58:

(Start: 51 @39675 has 18 MA's), (155, 39270), (177, 39231),

Gene: Tote_56 Start: 38009, Stop: 37500, Start Num: 30

Candidate Starts for Tote_56:

(Start: 30 @38009 has 168 MA's), (Start: 91 @37895 has 3 MA's), (133, 37667), (155, 37589), (177, 37550),

Gene: Traft412_62 Start: 41416, Stop: 40925, Start Num: 30

Candidate Starts for Traft412_62:

(Start: 30 @41416 has 168 MA's), (155, 41011), (177, 40972),

Gene: Treddle_61 Start: 42195, Stop: 41701, Start Num: 51

Candidate Starts for Treddle_61:

(Start: 51 @42195 has 18 MA's), (155, 41790), (177, 41751),

Gene: Trike_56 Start: 38142, Stop: 37657, Start Num: 31
Candidate Starts for Trike_56:
(Start: 31 @38142 has 240 MA's), (104, 37950), (158, 37689), (165, 37671),

Gene: Tripl3t_62 Start: 43127, Stop: 42633, Start Num: 30
Candidate Starts for Tripl3t_62:
(Start: 30 @43127 has 168 MA's), (155, 42722), (177, 42683),

Gene: Trixie_60 Start: 39882, Stop: 39415, Start Num: 40
Candidate Starts for Trixie_60:
(Start: 40 @39882 has 121 MA's), (121, 39606), (126, 39579), (130, 39558),

Gene: Trooper_63 Start: 40302, Stop: 39829, Start Num: 40
Candidate Starts for Trooper_63:
(Start: 23 @40326 has 1 MA's), (24, 40323), (Start: 38 @40308 has 3 MA's), (Start: 40 @40302 has 121 MA's), (Start: 93 @40173 has 1 MA's), (130, 39972),

Gene: Trouble_61 Start: 41329, Stop: 40853, Start Num: 30
Candidate Starts for Trouble_61:
(Start: 30 @41329 has 168 MA's), (155, 40924), (177, 40885),

Gene: TroyPia_59 Start: 38976, Stop: 38506, Start Num: 31
Candidate Starts for TroyPia_59:
(Start: 31 @38976 has 240 MA's), (104, 38787),

Gene: Tubs_63 Start: 39912, Stop: 39448, Start Num: 40
Candidate Starts for Tubs_63:
(Start: 40 @39912 has 121 MA's), (121, 39645), (126, 39618), (130, 39597), (153, 39510),

Gene: Tucker_64 Start: 38793, Stop: 38293, Start Num: 43
Candidate Starts for Tucker_64:
(Start: 40 @38796 has 121 MA's), (Start: 43 @38793 has 18 MA's), (130, 38469),

Gene: Tuco_22 Start: 13333, Stop: 13848, Start Num: 62
Candidate Starts for Tuco_22:
(Start: 62 @13333 has 38 MA's), (Start: 82 @13378 has 3 MA's), (121, 13630), (143, 13726),

Gene: Turbido_63 Start: 40194, Stop: 39715, Start Num: 38
Candidate Starts for Turbido_63:
(Start: 23 @40212 has 1 MA's), (Start: 38 @40194 has 3 MA's), (Start: 40 @40188 has 121 MA's), (Start: 93 @40059 has 1 MA's), (130, 39858),

Gene: Turj99_57 Start: 41394, Stop: 40915, Start Num: 60
Candidate Starts for Turj99_57:
(Start: 20 @41427 has 2 MA's), (Start: 60 @41394 has 4 MA's), (Start: 91 @41289 has 3 MA's), (133, 41061), (155, 40983),

Gene: Twister_57 Start: 38835, Stop: 38350, Start Num: 31
Candidate Starts for Twister_57:
(9, 38901), (Start: 31 @38835 has 240 MA's), (104, 38643), (153, 38400), (159, 38379), (160, 38376), (165, 38364),

Gene: TwoPeat_60 Start: 41579, Stop: 41085, Start Num: 30

Candidate Starts for TwoPeat_60:
(Start: 30 @41579 has 168 MA's), (177, 41135),

Gene: TygerBlood_58 Start: 38978, Stop: 38508, Start Num: 31
Candidate Starts for TygerBlood_58:
(Start: 31 @38978 has 240 MA's), (104, 38789),

Gene: U2_58 Start: 41121, Stop: 40633, Start Num: 30
Candidate Starts for U2_58:
(Start: 30 @41121 has 168 MA's), (Start: 91 @41007 has 3 MA's), (133, 40779), (155, 40701), (178, 40638),

Gene: Ugenie5_60 Start: 40322, Stop: 39858, Start Num: 40
Candidate Starts for Ugenie5_60:
(Start: 40 @40322 has 121 MA's), (121, 40055), (126, 40028), (130, 40007), (153, 39920),

Gene: UhSalsa_51 Start: 36741, Stop: 36301, Start Num: 69
Candidate Starts for UhSalsa_51:
(Start: 69 @36741 has 34 MA's), (Start: 95 @36639 has 3 MA's), (125, 36462), (133, 36423), (134, 36420), (136, 36411), (155, 36345),

Gene: Ulysses_57 Start: 38655, Stop: 38185, Start Num: 31
Candidate Starts for Ulysses_57:
(Start: 31 @38655 has 240 MA's), (104, 38466),

Gene: UnionJack_60 Start: 39620, Stop: 39156, Start Num: 56
Candidate Starts for UnionJack_60:
(Start: 43 @39635 has 18 MA's), (Start: 56 @39620 has 25 MA's), (Start: 91 @39512 has 3 MA's), (104, 39452), (134, 39275), (155, 39200), (165, 39170),

Gene: Updawg_63 Start: 39838, Stop: 39365, Start Num: 40
Candidate Starts for Updawg_63:
(Start: 38 @39844 has 3 MA's), (Start: 40 @39838 has 121 MA's), (Start: 93 @39709 has 1 MA's), (130, 39508),

Gene: VA6_63 Start: 40168, Stop: 39695, Start Num: 40
Candidate Starts for VA6_63:
(Start: 40 @40168 has 121 MA's), (130, 39838),

Gene: VC3_64 Start: 40015, Stop: 39551, Start Num: 47
Candidate Starts for VC3_64:
(Start: 47 @40015 has 4 MA's), (130, 39700), (140, 39655),

Gene: Vanisoa_63 Start: 41016, Stop: 40552, Start Num: 40
Candidate Starts for Vanisoa_63:
(Start: 40 @41016 has 121 MA's), (121, 40749), (126, 40722), (130, 40701), (173, 40560),

Gene: Veracruz_59 Start: 39338, Stop: 38880, Start Num: 31
Candidate Starts for Veracruz_59:
(Start: 31 @39338 has 240 MA's), (86, 39260), (87, 39257), (104, 39158), (126, 39023), (153, 38915), (160, 38891),

Gene: Vine_3 Start: 1265, Stop: 1630, Start Num: 79

Candidate Starts for Vine_3:

(Start: 79 @1265 has 2 MA's), (99, 1373), (101, 1376), (120, 1499), (121, 1505), (126, 1532), (127, 1541),

Gene: Violet_58 Start: 42553, Stop: 42059, Start Num: 51

Candidate Starts for Violet_58:

(Start: 51 @42553 has 18 MA's), (104, 42397), (155, 42148), (177, 42109),

Gene: Vix_62 Start: 39704, Stop: 39228, Start Num: 31

Candidate Starts for Vix_62:

(Start: 25 @39710 has 23 MA's), (Start: 31 @39704 has 240 MA's), (Start: 80 @39629 has 3 MA's), (153, 39272), (164, 39239),

Gene: VohminGhazi_63 Start: 38584, Stop: 38081, Start Num: 40

Candidate Starts for VohminGhazi_63:

(Start: 40 @38584 has 121 MA's), (Start: 43 @38581 has 18 MA's), (130, 38257),

Gene: Vorrps_10 Start: 3349, Stop: 2729, Start Num: 71

Candidate Starts for Vorrps_10:

(Start: 71 @3349 has 29 MA's), (123, 3076), (174, 2887), (176, 2863), (180, 2788),

Gene: Waits_70 Start: 40007, Stop: 39549, Start Num: 33

Candidate Starts for Waits_70:

(22, 40025), (Start: 33 @40007 has 9 MA's), (Start: 89 @39917 has 12 MA's), (125, 39707), (157, 39581), (164, 39563),

Gene: WalterMcMickey_57 Start: 38835, Stop: 38350, Start Num: 31

Candidate Starts for WalterMcMickey_57:

(9, 38901), (Start: 31 @38835 has 240 MA's), (104, 38643), (153, 38400), (159, 38379), (160, 38376), (165, 38364),

Gene: Wanda_129 Start: 68901, Stop: 69377, Start Num: 35

Candidate Starts for Wanda_129:

(18, 68856), (Start: 35 @68901 has 38 MA's), (125, 69219), (126, 69222), (133, 69258), (153, 69330), (159, 69351),

Gene: Wander_58 Start: 38975, Stop: 38505, Start Num: 31

Candidate Starts for Wander_58:

(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Watermelon_60 Start: 40292, Stop: 39816, Start Num: 30

Candidate Starts for Watermelon_60:

(Start: 30 @40292 has 168 MA's), (155, 39887), (177, 39848),

Gene: Watson_63 Start: 39613, Stop: 39137, Start Num: 31

Candidate Starts for Watson_63:

(Start: 25 @39619 has 23 MA's), (Start: 31 @39613 has 240 MA's), (Start: 80 @39538 has 3 MA's), (153, 39181), (164, 39148),

Gene: Whabigail7_63 Start: 40173, Stop: 39700, Start Num: 40

Candidate Starts for Whabigail7_63:

(Start: 40 @40173 has 121 MA's), (Start: 93 @40044 has 1 MA's), (130, 39843),

Gene: Wheeler_59 Start: 40097, Stop: 39621, Start Num: 30
Candidate Starts for Wheeler_59:
(Start: 30 @40097 has 168 MA's), (155, 39692), (177, 39653),

Gene: WideWale_63 Start: 39838, Stop: 39365, Start Num: 40
Candidate Starts for WideWale_63:
(Start: 38 @39844 has 3 MA's), (Start: 40 @39838 has 121 MA's), (Start: 93 @39709 has 1 MA's),
(130, 39508),

Gene: Wiks_63 Start: 38695, Stop: 38195, Start Num: 43
Candidate Starts for Wiks_63:
(Start: 40 @38698 has 121 MA's), (Start: 43 @38695 has 18 MA's), (130, 38371),

Gene: Wilbur_58 Start: 38975, Stop: 38505, Start Num: 31
Candidate Starts for Wilbur_58:
(Start: 31 @38975 has 240 MA's), (104, 38786),

Gene: Wildflower_10 Start: 3463, Stop: 2978, Start Num: 71
Candidate Starts for Wildflower_10:
(Start: 71 @3463 has 29 MA's), (88, 3403), (123, 3190), (124, 3178),

Gene: Wile_56 Start: 38834, Stop: 38364, Start Num: 31
Candidate Starts for Wile_56:
(26, 38840), (Start: 31 @38834 has 240 MA's), (104, 38645), (160, 38378),

Gene: Wilkins_58 Start: 39605, Stop: 39129, Start Num: 51
Candidate Starts for Wilkins_58:
(Start: 51 @39605 has 18 MA's), (155, 39200), (177, 39161),

Gene: WilliamBoone_132 Start: 71530, Stop: 71970, Start Num: 72
Candidate Starts for WilliamBoone_132:
(Start: 70 @71527 has 1 MA's), (Start: 72 @71530 has 3 MA's), (Start: 80 @71554 has 3 MA's), (155,
71926),

Gene: Winget_10 Start: 3502, Stop: 3017, Start Num: 71
Candidate Starts for Winget_10:
(Start: 71 @3502 has 29 MA's), (88, 3442), (123, 3229), (124, 3217),

Gene: Wintermute_76 Start: 48607, Stop: 49083, Start Num: 64
Candidate Starts for Wintermute_76:
(Start: 42 @48583 has 4 MA's), (Start: 64 @48607 has 18 MA's), (Start: 70 @48619 has 1 MA's), (83,
48655), (90, 48691), (Start: 91 @48709 has 3 MA's), (Start: 95 @48727 has 3 MA's), (131, 48940),
(139, 48976), (142, 48979), (161, 49048), (172, 49072),

Gene: Wizard007_58 Start: 38983, Stop: 38513, Start Num: 31
Candidate Starts for Wizard007_58:
(Start: 31 @38983 has 240 MA's), (104, 38794),

Gene: Wooldri_66 Start: 39533, Stop: 39057, Start Num: 31
Candidate Starts for Wooldri_66:
(Start: 25 @39539 has 23 MA's), (Start: 31 @39533 has 240 MA's), (Start: 80 @39458 has 3 MA's),
(153, 39101), (164, 39068),

Gene: WunderPhul_64 Start: 38693, Stop: 38193, Start Num: 43
Candidate Starts for WunderPhul_64:
(Start: 40 @38696 has 121 MA's), (Start: 43 @38693 has 18 MA's), (130, 38369),

Gene: Xena_55 Start: 38800, Stop: 38330, Start Num: 31
Candidate Starts for Xena_55:
(26, 38806), (Start: 31 @38800 has 240 MA's), (104, 38611), (160, 38344),

Gene: XianYue_60 Start: 39341, Stop: 38868, Start Num: 40
Candidate Starts for XianYue_60:
(24, 39362), (Start: 38 @39347 has 3 MA's), (Start: 40 @39341 has 121 MA's), (130, 39011), (153, 38924),

Gene: Y10_73 Start: 48583, Stop: 49059, Start Num: 64
Candidate Starts for Y10_73:
(Start: 42 @48559 has 4 MA's), (Start: 64 @48583 has 18 MA's), (Start: 70 @48595 has 1 MA's), (83, 48631), (90, 48667), (Start: 91 @48685 has 3 MA's), (Start: 95 @48703 has 3 MA's), (120, 48847), (121, 48853), (131, 48916), (139, 48952), (142, 48955), (161, 49024), (172, 49048),

Gene: Y2_73 Start: 48583, Stop: 49059, Start Num: 64
Candidate Starts for Y2_73:
(Start: 42 @48559 has 4 MA's), (Start: 64 @48583 has 18 MA's), (Start: 70 @48595 has 1 MA's), (83, 48631), (90, 48667), (Start: 91 @48685 has 3 MA's), (Start: 95 @48703 has 3 MA's), (120, 48847), (121, 48853), (131, 48916), (139, 48952), (142, 48955), (161, 49024), (172, 49048),

Gene: YassJohnny_22 Start: 13333, Stop: 13848, Start Num: 62
Candidate Starts for YassJohnny_22:
(Start: 62 @13333 has 38 MA's), (Start: 82 @13378 has 3 MA's), (121, 13630), (143, 13726),

Gene: Yecey3_64 Start: 39908, Stop: 39444, Start Num: 40
Candidate Starts for Yecey3_64:
(Start: 40 @39908 has 121 MA's), (126, 39614), (130, 39593),

Gene: Yeet_122 Start: 70488, Stop: 70964, Start Num: 35
Candidate Starts for Yeet_122:
(Start: 35 @70488 has 38 MA's), (125, 70806), (126, 70809), (133, 70845), (153, 70917), (159, 70938),

Gene: YoSam321_58 Start: 38972, Stop: 38502, Start Num: 31
Candidate Starts for YoSam321_58:
(Start: 31 @38972 has 240 MA's), (104, 38783),

Gene: Yogi_51 Start: 37150, Stop: 36578, Start Num: 69
Candidate Starts for Yogi_51:
(Start: 69 @37150 has 34 MA's), (Start: 95 @37048 has 3 MA's), (125, 36871), (127, 36859), (138, 36808), (155, 36754), (163, 36730), (169, 36715), (179, 36622),

Gene: Yokurt_63 Start: 38698, Stop: 38195, Start Num: 40
Candidate Starts for Yokurt_63:
(Start: 40 @38698 has 121 MA's), (Start: 43 @38695 has 18 MA's), (130, 38371),

Gene: Yoncess_50 Start: 36451, Stop: 36113, Start Num: 95
Candidate Starts for Yoncess_50:

(Start: 69 @36553 has 34 MA's), (Start: 95 @36451 has 3 MA's), (125, 36274), (133, 36235), (134, 36232), (136, 36223), (155, 36157),

Gene: YungJamal_11 Start: 3791, Stop: 3306, Start Num: 71
Candidate Starts for YungJamal_11:
(Start: 71 @3791 has 29 MA's), (88, 3731), (123, 3518), (124, 3506),

Gene: Yvonnetastic_141 Start: 77774, Stop: 78214, Start Num: 71
Candidate Starts for Yvonnetastic_141:
(Start: 71 @77774 has 29 MA's), (105, 77921), (121, 78023), (133, 78095), (134, 78098), (155, 78173), (157, 78182), (166, 78209),

Gene: Zaka_64 Start: 38695, Stop: 38195, Start Num: 43
Candidate Starts for Zaka_64:
(Start: 40 @38698 has 121 MA's), (Start: 43 @38695 has 18 MA's), (130, 38371),

Gene: Zakhe101_11 Start: 3815, Stop: 3330, Start Num: 71
Candidate Starts for Zakhe101_11:
(Start: 71 @3815 has 29 MA's), (88, 3755), (123, 3542), (124, 3530),

Gene: Zeeculate_57 Start: 41042, Stop: 40566, Start Num: 30
Candidate Starts for Zeeculate_57:
(Start: 30 @41042 has 168 MA's), (155, 40637), (177, 40598),

Gene: Zelink_125 Start: 71713, Stop: 72189, Start Num: 35
Candidate Starts for Zelink_125:
(18, 71668), (Start: 35 @71713 has 38 MA's), (125, 72031), (126, 72034), (133, 72070), (153, 72142), (159, 72163),

Gene: Zephyr_61 Start: 40459, Stop: 39965, Start Num: 30
Candidate Starts for Zephyr_61:
(Start: 30 @40459 has 168 MA's), (155, 40054), (177, 40015),

Gene: Zetzy_63 Start: 39184, Stop: 38708, Start Num: 31
Candidate Starts for Zetzy_63:
(Start: 25 @39190 has 23 MA's), (Start: 31 @39184 has 240 MA's), (Start: 80 @39109 has 3 MA's), (153, 38752), (164, 38719),

Gene: Zeuska_59 Start: 41773, Stop: 41279, Start Num: 30
Candidate Starts for Zeuska_59:
(Start: 30 @41773 has 168 MA's), (155, 41368), (177, 41329),

Gene: Zimmer_59 Start: 40719, Stop: 40255, Start Num: 40
Candidate Starts for Zimmer_59:
(29, 40734), (Start: 40 @40719 has 121 MA's), (126, 40425), (130, 40404), (155, 40311),

Gene: Zolita_59 Start: 40380, Stop: 39916, Start Num: 56
Candidate Starts for Zolita_59:
(Start: 43 @40395 has 18 MA's), (Start: 56 @40380 has 25 MA's), (Start: 91 @40272 has 3 MA's), (104, 40212), (134, 40035), (143, 40002), (155, 39960), (165, 39930),

Gene: Zulu_65 Start: 39073, Stop: 38573, Start Num: 43
Candidate Starts for Zulu_65:

(Start: 40 @39076 has 121 MA's), (Start: 43 @39073 has 18 MA's), (130, 38749),

Gene: xkcd_22 Start: 12993, Stop: 13508, Start Num: 62

Candidate Starts for xkcd_22:

(Start: 62 @12993 has 38 MA's), (Start: 82 @13038 has 3 MA's), (121, 13290), (143, 13386),