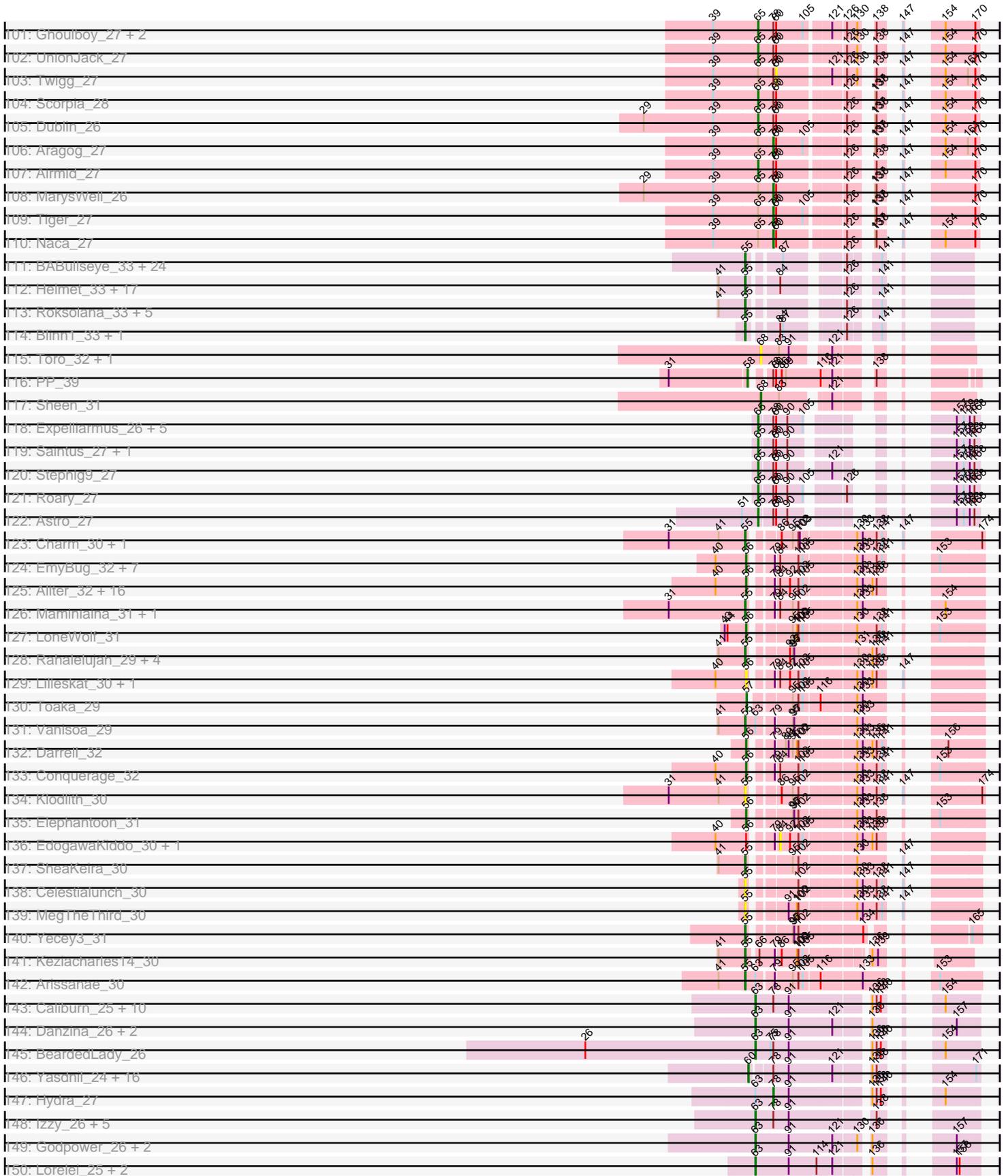




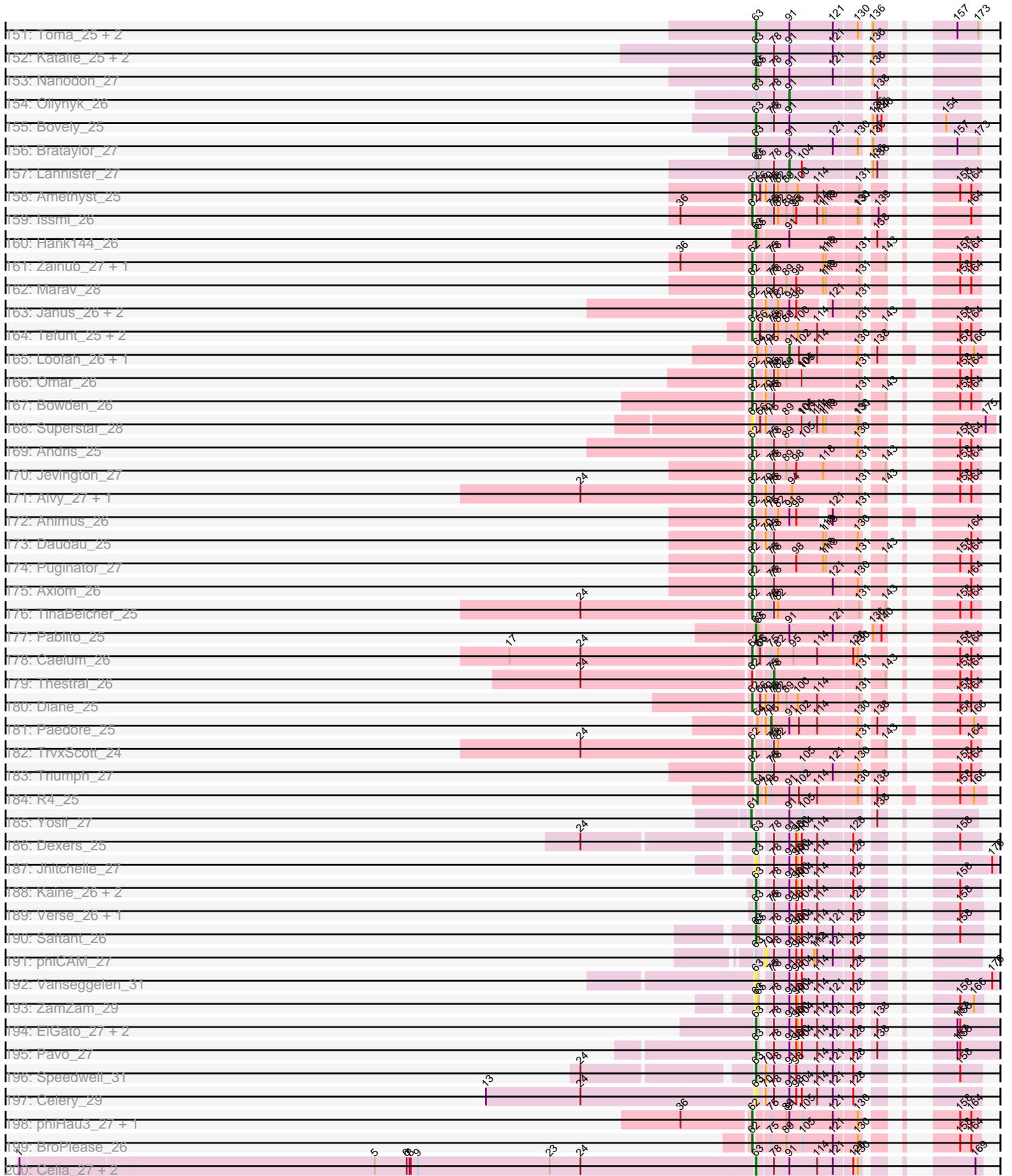
Pham 283334



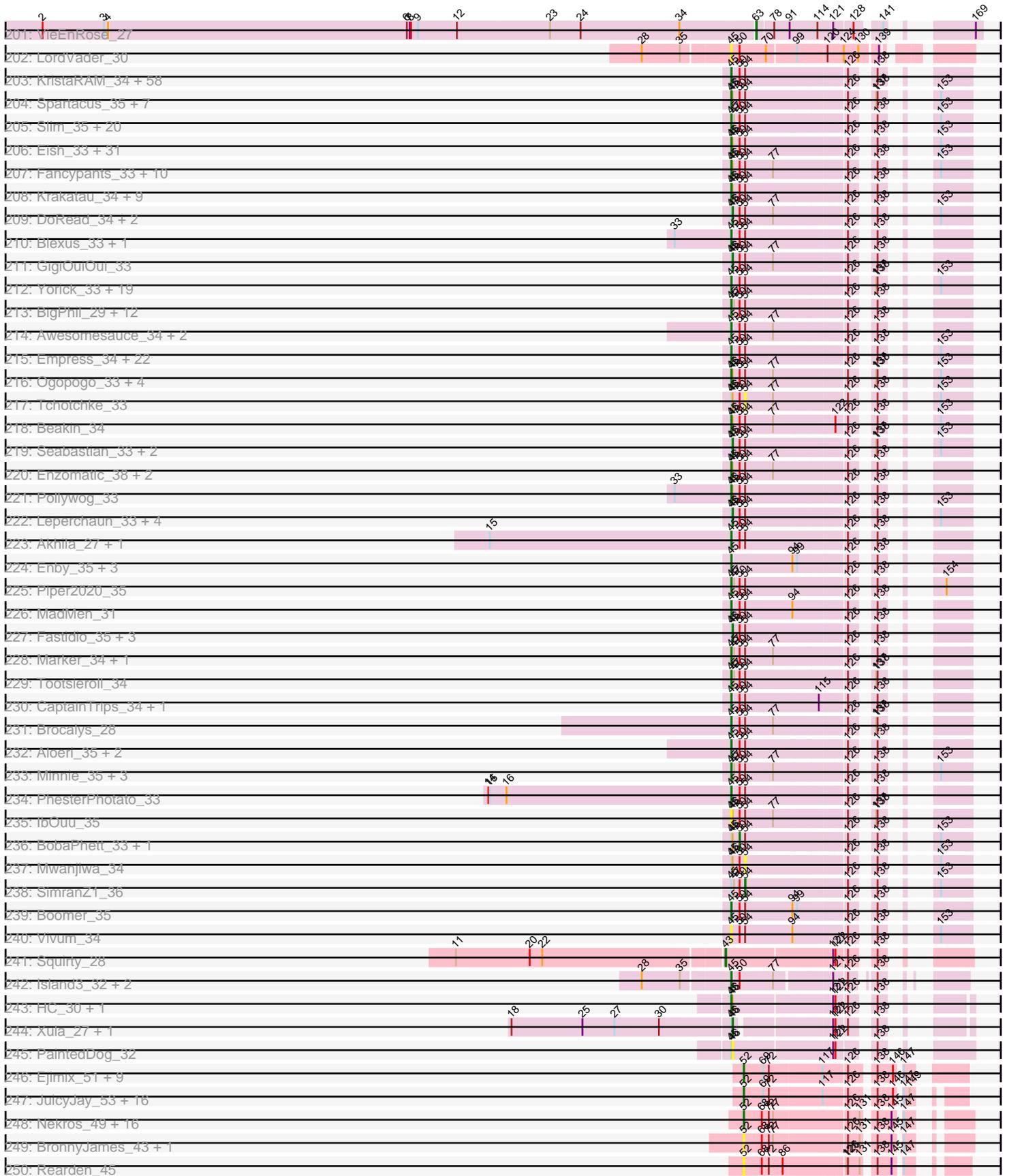
Pham 283334



Pham 283334



Pham 283334



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 283334 Report

This analysis was run 02/23/26 on database version 636.

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

Pham number 283334 has 1003 members, 133 are drafts.

Phages represented in each track:

- Track 1 : Bachome_30, Mulciber_30, Aneem_30, Flaverint_30, Salz_30, Hutc2_30, Orange_30, Ebony_30, Sham4_30, Fibonacci_30, Insomnia_30, Joselito_30, Jabith_30, Gilberta_30, Et2Brutus_29, Wolpertinger_29, MaCh_30, Bud_30, Petersenfast_29, Snape_30, Munch_30, Lucivia_30, Timothy_30
- Track 2 : Kimba_30, TinyTimmy_30, Bowtie_30, Mabel_30, Saskia_29
- Track 3 : DarthPhader_31
- Track 4 : Pharaoh_30
- Track 5 : Zimmer_32
- Track 6 : Phlei_25
- Track 7 : Gail_30
- Track 8 : Jeeves_30
- Track 9 : SororFago_30
- Track 10 : Sunhee_29
- Track 11 : Luchador_32
- Track 12 : Anon_30
- Track 13 : Anaysia_32, Boohoo_32, Strosahl_32, DekHockey33_32, Oofda_32, ReMo_32, Remus_32, Rosalind_32, ShayRa_33, JSwag_32, Epsocamisio_32, Soups_32, Ravana_33, MinecraftSteve_33, Waits_32, KatherineG_32, Nebulosus_32, Battleship_33, Switzerland_32, LastResort_32, Warrior24_32, Looper_33
- Track 14 : Elle_30
- Track 15 : Nedarya_31
- Track 16 : EagleEye_32, PainterBoy_31, Lucyedi_31
- Track 17 : 40AC_33
- Track 18 : MyraDee_28
- Track 19 : Kimona_27
- Track 20 : Baehexic_31, NaSiaTalie_30, Piro94_31
- Track 21 : Drake55_32, Larenn_31, HarryHoudini_32
- Track 22 : Equemioh13_32, Gratitude_31, MiculUcigas_30, Centaur_32, Sknot_30, WideWale_32, Terrific_34, Updawg_32, Flare16_30
- Track 23 : TopsytheTRex_29
- Track 24 : Bradman_29, MajorMajor_29, Quokka_28
- Track 25 : Odin_29

- Track 26 : Pukovnik_32
- Track 27 : BengiVuitton_31, Deloris_31
- Track 28 : KingCyrus_32, JoshKayV_32, EvilGenius_32, ChipMunk_32
- Track 29 : BobSwaget_33, Lokk_33, Rachaly_33
- Track 30 : LionsBait_31, HippoHollow_31
- Track 31 : Kalpine_33
- Track 32 : NothingSpecial_32
- Track 33 : Adzzy_31, Ph8s_31
- Track 34 : WeiHuaDA_36
- Track 35 : Trixie_33
- Track 36 : MissWhite_30
- Track 37 : L5_30, Koduck_30
- Track 38 : Agape74_32, Dignity_32, AbbyPaige_32, Buggy_32
- Track 39 : Turbido_32, Jerm_32, Whabigail7_32, LilTurb_32, Smeagan_32
- Track 40 : Heffalump_32, DudeLittle_30, Crucio_30, FiringLine_30, QueenBeesly_30, Anselm_30, SemperFi_32, SweetiePie_30, QueenB2_30, Fameo_30, Retro23_30, Dalmatian_30, SnapTap_30
- Track 41 : AN18_33, AN3_30, VC3_33, C3_28, AN9_33, VA6_30
- Track 42 : BiancaTri92_32
- Track 43 : Benvolio_30, Echild_30
- Track 44 : Superchunk_29, Caraxes_29
- Track 45 : First_0030, CRB1_30
- Track 46 : BabyBack_32, GaugeLDP_32
- Track 47 : Malec_31
- Track 48 : Georgie2_31, Power_30
- Track 49 : Acolyte_30
- Track 50 : 20ES_30
- Track 51 : NicoleTera_34
- Track 52 : Serenity_29
- Track 53 : LadyBird_30
- Track 54 : EZMoney23_34
- Track 55 : SwirlSquare_32
- Track 56 : Trooper_30
- Track 57 : Leviathan_32
- Track 58 : Miko_33
- Track 59 : Che12_32
- Track 60 : Jsquared_29
- Track 61 : XianYue_30
- Track 62 : Journey13_28
- Track 63 : Colin_34
- Track 64 : TarsusIV_30
- Track 65 : Leogania_32
- Track 66 : Iwokeuplikedis_31
- Track 67 : FatCactus_28
- Track 68 : Kinmap_31
- Track 69 : Chargerpower_31
- Track 70 : LBerry_32, Sabinator_32, Hercules11_32, Montavir_31, Cullens_32, Gwennie_31, Watson_32, Microwolf_32, Soshari_34, Stagni_32, Lilith_32, Sabia_32, Phoxy_32, AgronaGT15_32, Dieselweasel_32, MuchMore_34, Vix_32, Anubis_34, Spike509_32, Rummer_32, SoYo_32, AugsMagnumOpus_34, Grub_32, Phoebe_32, Methuselah_31, Louie6_32, Malinsilva_34, Bxz2_31, Beauxregard13_32, MadMarie_32, StepMih_32, Penny1_32, Farber_32, EpicPhail_32, Wooldri_34, Aglet_32, Tiffany_32, GingkoMaracino_32, BreSam8_32, Marie_32, HashRod_33,

Pembroke_32, Fernando_32, PGHhamlin_34, Croquant_33, PotatoSplit_33, DaHudson_32, Snickers_32, Bigflo_32, Colbster_32, Lowa_32, Mainiac_32, LugYA_34, P28Green_32, JHC117_32, JenCasNa_32, GtownJaz_32, Grif_32, MoneyMay_32, Taurus_32

- Track 71 : MarQuardt_32
- Track 72 : Texage_30, Margo_31, QuinnKiro_30, Lambert1_31, Norbert_30, Todacoro_31, Caviar_31, Panamaxus_30, Noella_31, ResDef_31, Hookmount_31, Pocahontas_31, Popcicle_31, EtoileNova_31
- Track 73 : Kalb97_33, Reba_33, Manu_33, PurpleHaze_32, Pawn_32, Groupthink_33, Kainoky_33, JeppNRM_33, ACFishhook_32, Marius_33, ClownCar_33, HaveUMetTed_33, OlanP_32, Phranny_33, Heliosoles_32, Calvinny_33, PhishRPhriends_31
- Track 74 : Puppy_31, Pistachio_31, Giroux_31, Idleandcovert_30, Bugatti_30, Clammy_30, SaturnRing_30, BlueBird_31, TNguyen7_30
- Track 75 : Fred313_30, HelDan_30, Heathen_30, Roimos_30, Kachowdy_30, Zarafa_30, Marchesa_30, Scout_30, DropBear_30
- Track 76 : TinyPebbles_32, Daishi_31, BuzzBuzz_31, LarryKay_32, Misomonster_34
- Track 77 : Jobu08_32, Ollie_32
- Track 78 : JF2_30, B1_28, MK4_30, JF4_30
- Track 79 : Gemma_32
- Track 80 : Veracruz_30
- Track 81 : Phantastic_30
- Track 82 : BabyJohn_29, Chiqui_29
- Track 83 : SoilDragon_32
- Track 84 : Isca_30, Rockstar_30
- Track 85 : MA5_30
- Track 86 : BabyRay_30
- Track 87 : Zetzy_31
- Track 88 : KADY_33
- Track 89 : Grum1_32
- Track 90 : Florence4_28
- Track 91 : Micasa_27
- Track 92 : AgentM_27, PickleBack_27, Discoknowium_27, Phlorence_27
- Track 93 : Milcery_27, Tarynearal_26, HuhtaEnerson15_27
- Track 94 : Jabiru_27, Archetta_27, PetterN_28, Chadwick_28, EITiger69_27, Benedict_27
- Track 95 : Midas2_27, Swirley_27, George_26, LittleCherry_27, Cuco_27, Coog_27, Prinashe11_28
- Track 96 : Bluefalcon_26
- Track 97 : Theia_25
- Track 98 : Lev2_27, ForGetIt_27, Jovo_27, Conspiracy_27
- Track 99 : Florence1_27
- Track 100 : Bonamassa_27
- Track 101 : Ghoulboy_27, Zolita_26, SydNat_27
- Track 102 : UnionJack_27
- Track 103 : Twigg_27
- Track 104 : Scorpia_28
- Track 105 : Dublin_26
- Track 106 : Aragog_27
- Track 107 : Airmid_27
- Track 108 : MarysWell_26
- Track 109 : Tiger_27

- Track 110 : Naca_27
- Track 111 : BABullseye_33, Chartreuse_33, Dorothea_33, Kipper29_33, Pmask_33, DaVinci_33, Kazan_33, Candra_33, Hoot_33, EricB_33, McFly_33, Polyphemus_33, Newrala_33, BennyP_33, GreedyLawyer_33, SuperAwesome_33, Cookiedough_33, Isiphiwo_33, VohminGhazi_33, SuperCallie99_33, JewelBug_33, DelvinSonDorr_32, Neeharika16_33, Jordennis_33, SmellyB_33
- Track 112 : Helmet_33, Gruunaga_33, Indra_33, Garak_34, Zaka_33, Jeffabunny_33, Lilbunny_33, WunderPhul_33, BlessJoy_33, Yokurt_33, Zulu_33, Wiks_33, Rifter_33, Hammer_33, CloudWang3_33, Gladiator_33, Blue7_33, Temprado_33
- Track 113 : Roksolana_33, Artemis2UCLA_33, Hexamo_33, Tucker_33, Koko_33, ToneTone_31
- Track 114 : Blinn1_33, Priamo_33
- Track 115 : Toro_32, FlyCatcher_33
- Track 116 : PP_39
- Track 117 : Sheen_31
- Track 118 : Expelliarmus_26, Dixon_27, Smeadley_27, Caitlin_26, Groundhog_26, NearlyHeadless_27
- Track 119 : Saintus_27, Danforth_26
- Track 120 : Stephig9_27
- Track 121 : Roary_27
- Track 122 : Astro_27
- Track 123 : Charm_30, DreamTeam1_30
- Track 124 : EmyBug_32, Eidsmoe_32, Ayanochan_33, Alma_32, ExplosioNervosa_32, Spouty_32, Qobbit_32, Priya_32
- Track 125 : Aliter_32, Pioneer_32, Fayely_32, Phonnegut_32, Myxus_32, Halex_31, Catalina_33, Jiawan_31, PackMan_32, Phaeder_32, RyeScarlet_33, HortumSL17_32, Tubs_32, Ugenie5_29, Beemo_32, Hanray_31, Scherzo_32
- Track 126 : Maminiaina_31, BogosyJay_31
- Track 127 : LoneWolf_31
- Track 128 : Rahalelujah_29, Bellris_28, CogOmlette_28, WorldCup_28, Minispark_28
- Track 129 : Lilleskat_30, Onglai_31
- Track 130 : Toaka_29
- Track 131 : Vanisoa_29
- Track 132 : Darrell_32
- Track 133 : Conquerage_32
- Track 134 : Klodlith_30
- Track 135 : Elephantoon_31
- Track 136 : EdogawaKiddo_30, Sachima_30
- Track 137 : SheaKeira_30
- Track 138 : Celestiallunch_30
- Track 139 : MegTheThird_30
- Track 140 : Yecey3_31
- Track 141 : Keziacharles14_30
- Track 142 : Arissanae_30
- Track 143 : Caliburn_25, SunsetPointe_25, Unstoppable_25, Leviticus_25, Aaronocolus_25, Esperer_25, Legacy_25, Indigo_24, Nerdos_25, Phettuccine_25, Ozzie_25
- Track 144 : Danzina_26, Celeste_25, Zemlya_26
- Track 145 : BeardedLady_26
- Track 146 : Yasdnil_24, Chucky_24, Maneekul_24, Hippo_24, Asten_24, Werner_24, Dwayne_24, Snorlax_24, Emaanora_26, SarahRose_24, TuanPN_24,

TagePighter_25, Ejemplo_24, BarryBee_26, OzzyJ_25, Whatever_24, Triste_24

- Track 147 : Hydra_27
- Track 148 : Izzy_26, Eddasa_26, Rusticus_26, BryanRecycles_26, EnochSoames_27, Jash_26
- Track 149 : Godpower_26, Dattran_26, Lika_25
- Track 150 : Lorelei_25, Rana_25, Nabi_25
- Track 151 : Toma_25, Goby_25, Sujidade_26
- Track 152 : Katalie_25, South40_25, RedBear_26
- Track 153 : Nanodon_27
- Track 154 : Oliynyk_26
- Track 155 : Bovely_25
- Track 156 : Brataylor_27
- Track 157 : Lannister_27
- Track 158 : Amethyst_25
- Track 159 : Issmi_26
- Track 160 : Hank144_26
- Track 161 : Zainub_27, Paolo_27
- Track 162 : Marav_28
- Track 163 : Janus_26, SqueakyClean_26, GirlDinner_25
- Track 164 : Tefunt_25, Nishikigoi_25, Haizum_25
- Track 165 : Loofah_26, ELB20_24
- Track 166 : Omar_26
- Track 167 : Bowden_26
- Track 168 : Superstar_28
- Track 169 : Andris_25
- Track 170 : Jevington_27
- Track 171 : Alvy_27, BartholomewSD_27
- Track 172 : Animus_26
- Track 173 : Daudau_25
- Track 174 : Puginator_27
- Track 175 : Axiom_26
- Track 176 : TinaBelcher_25
- Track 177 : Pablito_25
- Track 178 : Caelum_26
- Track 179 : Thestral_26
- Track 180 : Diane_25
- Track 181 : Paedore_25
- Track 182 : TrvxScott_24
- Track 183 : Triumph_27
- Track 184 : R4_25
- Track 185 : Yosif_27
- Track 186 : Dexers_25
- Track 187 : Jhitchelle_27
- Track 188 : Kaine_26, Sudan_27, Alsaber_27
- Track 189 : Verse_26, Amela_26
- Track 190 : Saftant_26
- Track 191 : phiCAM_27
- Track 192 : Vanseggelen_31
- Track 193 : ZamZam_29
- Track 194 : ElGato_27, Provolone_27, Conan_27
- Track 195 : Pavo_27
- Track 196 : Speedwell_31
- Track 197 : Celery_29

- Track 198 : phiHau3_27, GreenWeasel_27
- Track 199 : BroPlease_26
- Track 200 : Celia_27, Urza_27, Itza_27
- Track 201 : VieEnRose_27
- Track 202 : LordVader_30
- Track 203 : KristaRAM_34, Hegedechwinu_34, Brushbloom_34, KingJulian_33, LunaBlu_36, MilleniumForce_34, SassyB_33, Violac_34, Whatsapiecost_34, Jant_34, Melissauren88_33, PopTart_33, Plumbus_35, Mova_34, Cornie_33, Batiatus_33, Emma_35, Juice456_35, Latretium_34, Tweety_33, Medindi_34, Galactic_35, Mandlovu_34, Corium_33, Ms6_27, DLane_33, Hlubikazi_34, Doomslug_37, Flathead_33, Kenuha5_30, Ardmore_32, Beanstalk_38, VRedHorse_33, Fruitloop_32, Renaud18_33, Shauna1_30, Filuzino_33, Phanphagia_30, Blarby_42, Firehouse51_34, Strokeseat_34, OwlsT2W_34, Moonbeam_34, Gandalph_34, MulchSalad_32, Bobi_35, SuperGrey_34, NewHope4_37, MinionDave_36, Coco12_33, SilverChicken_41, Donkeykong_33, Brookers_31, Byougenkin_33, Leozinho_35, Wachhund_33, Phalconet_33, JalFarm20_36, PatoPoderoso_33
- Track 204 : Spartacus_35, Ochi17_31, IrishSherpFalk_35, Llama_33, Jinglebell_32, Modragons_33, WillSterrel_35, Oksu_34
- Track 205 : Slim_35, Emmaloid_35, Inventum_33, JoeyJr_33, Hamulus_34, SiSi_33, BuzzLyseyear_36, Dorothy_33, Sassafras_34, DaddyRickover_33, Scottish_34, Frankie_37, Veteran_33, Polka14_34, Daenerys_33, Spikelee_35, GUmbie_33, RedBird_33, Alexphander_36, DaWorst_35, Phasih_34
- Track 206 : Eish_33, Gorge_33, PMC_33, Clank_31, Royals2015_33, Grimmer_35, DRBy19_33, Seagreen_34, Quico_34, Girafales_34, Saal_33, Sparkdehlily_33, EmiMonkey_34, James_33, Pacc40_33, Florinda_33, Rockne_33, Phatniss_34, UncleRicky_36, Spoonbill_33, Kersh_32, Llij_33, Radiance_33, Drago_34, Karhdo_33, OlympiaSaint_33, ShroomBoi_30, Mattes_33, Philus_33, Mutaforma13_33, Chuckly_33, TDanisky_33
- Track 207 : Fancypants_33, Mahavrat_33, Harley_33, DirtMcgirt_34, RitaG_34, Mozy_35, Lucia_35, Ovechkin_34, ArcusAngelus_33, Ibhubesi_33, Hades_34
- Track 208 : Krakatau_34, DillTech15_33, Estave1_31, Mantra_33, Totinger_34, Peridot_38, DotProduct_33, Nitzel_34, Rialto_37, XFactor_33
- Track 209 : DoRead_34, Chevrolet_34, Ramsey_36
- Track 210 : Blexus_33, BodEinwohner17_33
- Track 211 : GigiOuiOui_33
- Track 212 : Yorick_33, NormanBulbieJr_33, Cabrinians_33, Zizzle_33, Jarcob_33, LastJedi_27, Koella_27, Maravista_33, LilMoolah_33, ShiLan_33, Lizziana_33, SwagPiggett_33, Jennelsea_27, Clifton_27, Martik_33, Nivrat_33, ShowerHandel_33, Priscilla_33, Burwell21_33, Pippy_27
- Track 213 : BigPhil_29, Sandalphon_34, Sarma624_29, Poenanya_33, RockyHorror_34, Velveteen_29, Bipolar_30, Cerasum_29, Doomphist_33, Sabbb_34, Zerg_33, Rita_34, StAnnes_32
- Track 214 : Awesomesauce_34, Misha28_34, TootsiePop_34
- Track 215 : Empress_34, OldBen_33, Doug_34, Eradicator_33, DeadP_33, Girr_35, Deb65_33, Ruby_35, MisterCuddles_35, BlueCrab_33, PHappiness_33, KingMidas_35, IMpilo_32, Dante_33, Aubs_34, Whouxphf_34, Taj_33, Wee_34, Starcevich_37, Geralt_33, Nimbo_33, Bubbles123_35, Stap_34
- Track 216 : Ogotogo_33, QuickMath_34, Kimberlium_35, Cornucopia_34, MulchExplorer_37
- Track 217 : Tchotchke_33
- Track 218 : Beakin_34
- Track 219 : Sebastian_33, OfUltron_33, AlpineSix_34

- Track 220 : Enzomatic_38, Polo2Bam_38, Kingsley_32
- Track 221 : Pollywog_33
- Track 222 : Leperchaun_33, PhlipPhlop_34, Madiba_31, Crumble_27, Juniper1_33
- Track 223 : Akhila_27, MilanaBonita_27
- Track 224 : Enby_35, SG4_34, Lorde_35, EleanorGeorge_34
- Track 225 : Piper2020_35
- Track 226 : MadMen_31
- Track 227 : Fastidio_35, FreddyB_33, LittleShirley_36, CheesePuff_36
- Track 228 : Marker_34, Soul22_38
- Track 229 : TootsieRoll_34
- Track 230 : CaptainTrips_34, Guppsters_35
- Track 231 : Brocalys_28
- Track 232 : Aloeri_35, ChickenDinner_35, DocMcStuffins_35
- Track 233 : Minnie_35, Che8_35, Job42_37, DosHalletts_35
- Track 234 : PhesterPotato_33
- Track 235 : IbOuu_35
- Track 236 : BobaPhett_33, Topiatin_36
- Track 237 : Mwanjiwa_34
- Track 238 : SimranZ1_36
- Track 239 : Boomer_35
- Track 240 : Vivum_34
- Track 241 : Squirty_28
- Track 242 : Island3_32, Bogie_31, Brujita_32
- Track 243 : HC_30, Babsiella_29
- Track 244 : Xula_27, QueenHazel_28
- Track 245 : PaintedDog_32
- Track 246 : Ejimix_51, Halley_51, HokkenD_44, EricMillard_51, Beem_51, ThreeRngTarjay_49, Hughesyang_49, Bagrid_50, Yeet_49, BAKA_55
- Track 247 : JuicyJay_53, Wanda_57, Minerva_57, Klein_51, Duke13_54, Pound_53, Bombitas_48, Dove_48, DmpstrDiver_52, Kalah2_51, Xiaokay_46, Constella_43, Schatzie_48, Odette_51, NihilNomen_50, Optimus_56, Phoebus_50
- Track 248 : Nekros_49, Gonephishing_52, Omega_55, Nibley_45, Ariel_50, Hidrated_51, Superphikiman_50, Lucky2013_50, Dallas_53, LittleE_55, Porcelain_49, MiaZeal_50, Squint_49, Courthouse_50, Marleymoo_52, Zelink_52, Redno2_49
- Track 249 : BronnyJames_43, Shaboozey_43
- Track 250 : Rearden_45
- Track 251 : Thibault_44
- Track 252 : Bobby_50
- Track 253 : Hannaconda_47, KashFlow_44
- Track 254 : Duplicity_30, Charlie_30, SkinnyPete_27, Aggie_30, Journey_30, Bosection6_30, Silvy_30, Scitech_27, Xeno_29
- Track 255 : Silvafighter_30, ParmesanJohn_30, Pipsqueaks_30, Tapioca_30, Andies_27, MichelleMyBell_28, Chewbacca_30, Phloss_27, Shweta_27, Smurph_30, Philonius_30, SpongeBob_27, Melville_30, Snekmaggon_27, Gex_30, Magsby_30, Schnauzer_30, Rebel_27, Carcharodon_30, Xerxes_30, Fulbright_29, Jamie19_27
- Track 256 : Hanako_27, Redi_27, Spinach_27, Nenae_27, PhancyPhin_27, ShrimpFriedEgg_27, BabeRuth_27, Purgamenstris_27
- Track 257 : Tortoise12_30
- Track 258 : Cubone_30
- Track 259 : Butters_29, Rubeelu_29
- Track 260 : Phrann_28, Bluvara_30, Impisi_29, Xavia_29
- Track 261 : EGUnicorn_30

- Track 262 : Raymond7_27
- Track 263 : Panchino_27
- Track 264 : Kevin1_29
- Track 265 : Jung_28, Langerak_29, Gavriela_29, Ksquared_29, Fishburne_29, Techage_29, BronnyJr_29, Brusacoram_29, Sonah_29, GreaseLightnin_29, Shipwreck_31, Donovan_29, Pygmy_31, Jebeks_29, Etoile_29, Zilizebeth_29, Phegasus_29, Kari_29, Atcoo_29, Bartholomew_28, Glaske_29, Venti_29, Dynamo_29, Polkaroo_29, Necropolis_29, Mangethe_29, StressBall_29, HUHilltop_29, FirstPlacePfu_29, Vidya_29, CactusJack_29, Juniormint_29, Camster_29, Chubbello_29, Phalm_29, Majeke_29, KilKor_29, Phineas_29, Bunnies_29, Megiddo_29, Malithi_29, Thespis_29, Arib1_29, GaloreK_29
- Track 266 : Bhagsy_29, PeanutPie_29
- Track 267 : Willsammy_28
- Track 268 : StevieRay_29
- Track 269 : Tortellini_28
- Track 270 : Purky_28, WST1_28
- Track 271 : Stellammi_38
- Track 272 : Gaia_36, Nebkiss_37
- Track 273 : Finkle_22

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

The start number called the most often in the published annotations is 45, it was called in 263 of the 870 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akhila_27, Alexphander_36, Aloeri_35, ArcusAngelus_33, Ardmore_32, Arib1_29, Atcoo_29, Aubs_34, Awesomesauce_34, Babsiella_29, Bartholomew_28, Batiatus_33, Beakin_34, Beanstalk_38, Bhagsy_29, BigPhil_29, Bipolar_30, Blarby_42, Blexus_33, BlueCrab_33, Bluvara_30, Bobi_35, BodEinwohner17_33, Bogie_31, Boomer_35, Brocalys_28, BronnyJr_29, Brookers_31, Brujita_32, Brusacoram_29, Brushbloom_34, Bubbles123_35, Bunnies_29, Burwell21_33, Butters_29, BuzzLyseyear_36, Byougenkin_33, Cabrinians_33, CactusJack_29, Camster_29, CaptainTrips_34, Cerasum_29, Che8_35, ChickenDinner_35, Chubbello_29, Chuckly_33, Clank_31, Clifton_27, Coco12_33, Corium_33, Cornie_33, Cornucopia_34, DLane_33, DRBy19_33, DaWorst_35, DaddyRickover_33, Daenerys_33, Dante_33, DeadP_33, Deb65_33, DillTech15_33, DirtMcgirt_34, DocMcStuffins_35, Donkeykong_33, Donovan_29, Doomphist_33, Doomslug_37, Dorothy_33, DosHalletts_35, DotProduct_33, Doug_34, Drago_34, Dynamo_29, Eish_33, EleanorGeorge_34, EmiMonkey_34, Emma_35, Emmaloid_35, Empress_34, Enby_35, Enzomatic_38, Eradicator_33, Estave1_31, Etoile_29, Fancypants_33, Filuzino_33, Firehouse51_34, FirstPlacePfu_29, Fishburne_29, Flathead_33, Florinda_33, Frankie_37, Fruitloop_32, GUmbe_33, Galactic_35, GaloreK_29, Gandalph_34, Gavriela_29, Geralt_33, Girafales_34, Girr_35, Glaske_29, Gorge_33, GreaseLightnin_29, Grimmer_35, Guppsters_35, HC_30, HUHilltop_29, Hades_34, Hamulus_34, Harley_33, Hegedechwinu_34, Hlubikazi_34, IMpilo_32, IbOuu_35, Ihubesi_33, Impisi_29, Inventum_33, IrishSherpFalk_35, Island3_32, JalFarm20_36, James_33, Jant_34, Jarcob_33, Jebeks_29, Jennelsea_27, Jinglebell_32, Job42_37, JoeyJr_33, Juice456_35, Jung_28, Juniormint_29, Karhdo_33, Kari_29, Kenuha5_30, Kersh_32, Kevin1_29,

KilKor_29, Kimberlium_35, KingJulian_33, KingMidas_35, Kingsley_32, Koella_27, Krakatau_34, KristaRAM_34, Ksquared_29, Langerak_29, LastJedi_27, Latretium_34, Leozinho_35, LilMoolah_33, Lizziana_33, Llama_33, Llij_33, LordVader_30, Lorde_35, Lucia_35, LunaBlu_36, MadMen_31, Mahavrat_33, Majeke_29, Malithi_29, Mandlovu_34, Mangethe_29, Mantra_33, Maravista_33, Marker_34, Martik_33, Mattes_33, Medindi_34, Megiddo_29, Melissauren88_33, MilanaBonita_27, MilleniumForce_34, MinionDave_36, Minnie_35, Misha28_34, MisterCuddles_35, Modragons_33, Moonbeam_34, Mova_34, Mozy_35, Ms6_27, MulchExplorer_37, MulchSalad_32, Mutaforma13_33, Necropolis_29, NewHope4_37, Nimbo_33, Nitzel_34, Nivrat_33, NormanBulbieJr_33, Ochi17_31, Ogopogo_33, Oksu_34, OldBen_33, OlympiaSaint_33, Ovechkin_34, OwlsT2W_34, PHappiness_33, PMC_33, Pacc40_33, PatoPoderoso_33, PeanutPie_29, Peridot_38, Phalconet_33, Phalm_29, Phanphagia_30, Phasih_34, Phatniss_34, Phegasus_29, PhesterPhotato_33, Philus_33, Phineas_29, Phrann_28, Piper2020_35, Pippy_27, Plumbus_35, Poenanya_33, Polka14_34, Polkaroo_29, Pollywog_33, Polo2Bam_38, PopTart_33, Priscilla_33, Pygmy_31, QuickMath_34, Quico_34, Radiance_33, RedBird_33, Renaud18_33, Rialto_37, RitaG_34, Rita_34, Rockne_33, RockyHorror_34, Royals2015_33, Rubeelu_29, Ruby_35, SG4_34, Saal_33, Sabb_34, Sandalphon_34, Sarma624_29, Sassafras_34, SassyB_33, Scottish_34, Seagreen_34, Shauna1_30, ShiLan_33, Shipwreck_31, ShowerHandel_33, ShroomBoi_30, SiSi_33, SilverChicken_41, Slim_35, Sonah_29, Soul22_38, Sparkdehlily_33, Spartacus_35, Spikelee_35, Spoonbill_33, StAnnes_32, Stap_34, Starcevich_37, StevieRay_29, StressBall_29, Strokeseat_34, SuperGrey_34, SwagPigglett_33, TDanisky_33, Taj_33, Techage_29, Thespis_29, TootsiePop_34, Tootsieroll_34, Totinger_34, Tweety_33, UncleRicky_36, VRedHorse_33, Velveteen_29, Venti_29, Veteran_33, Vidya_29, Violac_34, Vivum_34, Wachhund_33, Wee_34, Whatsapiecost_34, Whouxphf_34, WillSterrel_35, XFactor_33, Xavia_29, Yorick_33, Zerg_33, Zilizebeth_29, Zizzle_33,

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

- AlpineSix_34, BobaPhett_33, Cheesepuff_36, Chevrolet_34, Crumble_27, DoRead_34, Fastidio_35, FreddyB_33, GigiOuiOui_33, Juniper1_33, Leperchaun_33, LittleShirley_36, Madiba_31, Mwanjiwa_34, OfUltron_33, PaintedDog_32, PhilipPhlop_34, QueenHazel_28, Ramsey_36, Sebastian_33, SimranZ1_36, Tchotchke_33, Topiatin_36, Xula_27,

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

- 20ES_30, 40AC_33, ACFishhook_32, AN3_30, AN9_33, ANI8_33, Aaronocolus_25, AbbyPaige_32, Acolyte_30, Adzzy_31, Agape74_32, AgentM_27, Aggie_30, Aglet_32, AgronaGT15_32, Airmid_27, Aliter_32, Alma_32, Alsaber_27, Alvy_27, Amela_26, Amethyst_25, Anaysia_32, Andies_27, Andris_25, Aneem_30, Animus_26, Anon_30, Anselm_30, Anubis_34, Aragog_27, Archetta_27, Ariel_50, Arissanae_30, Artemis2UCLA_33, Asten_24, Astro_27, AugsMagnumOpus_34, Axiom_26, Ayanochan_33, B1_28, BABullseye_33, BAKA_55, BabeRuth_27, BabyBack_32, BabyJohn_29, BabyRay_30, Bachome_30, Baehexic_31, Bagrid_50, BarryBee_26, BartholomewSD_27, Battleship_33, BeardedLady_26, Beauxregard13_32, Beem_51, Beemo_32, Bellris_28, Benedict_27, BengiVuitton_31, BennyP_33, Benvolio_30, BiancaTri92_32, Bigflo_32, BlessJoy_33, Blinn1_33, Blue7_33, BlueBird_31, Bluefalcon_26, BobSwaget_33, Bobby_50, BogosyJay_31, Bombitas_48, Bonamassa_27, Boohoo_32, Bosection6_30, Bovely_25, Bowden_26, Bowtie_30, Bradman_29, Brataylor_27, BreSam8_32, BroPlease_26, BronnyJames_43, BryanRecycles_26, Bud_30, Bugatti_30, Buggy_32, BuzzBuzz_31, Bxz2_31, C3_28, CRB1_30, Caelum_26, Caitlin_26, Caliburn_25, Calvinny_33,

Candra_33, Caraxes_29, Carcharodon_30, Catalina_33, Caviar_31, Celery_29, Celeste_25, Celestialunch_30, Celia_27, Centaur_32, Chadwick_28, Chargerpower_31, Charlie_30, Charm_30, Chartreuse_33, Che12_32, Chewbacca_30, ChipMunk_32, Chiqui_29, Chucky_24, Clammy_30, CloudWang3_33, ClownCar_33, CogOmlette_28, Colbster_32, Colin_34, Conan_27, Conquerage_32, Conspiracy_27, Constella_43, Coog_27, Cookiedough_33, Courthouse_50, Croquant_33, Crucio_30, Cubone_30, Cuco_27, Cullens_32, DaHudson_32, DaVinci_33, Daishi_31, Dallas_53, Dalmatian_30, Danforth_26, Danzina_26, Darrell_32, DarthPhader_31, Dattran_26, Daudau_25, DekHockey33_32, Deloris_31, DelvinSonDorr_32, Dexers_25, Diane_25, Dieselweasel_32, Dignity_32, Discoknowium_27, Dixon_27, DmpstrDiver_52, Dorothea_33, Dove_48, Drake55_32, DreamTeam1_30, DropBear_30, Dublin_26, DudeLittle_30, Duke13_54, Duplicity_30, Dwayne_24, EGUicorn_30, ELB20_24, EZMoney23_34, EagleEye_32, Ebony_30, Echild_30, Eddasa_26, EdogawaKiddo_30, Eidsmoe_32, Ejemplo_24, Ejimix_51, ElGato_27, ElTiger69_27, Elephantoon_31, Elle_30, Emaanora_26, EmyBug_32, EnochSoames_27, EpicPhail_32, Epsocamisio_32, Equemioh13_32, EricB_33, EricMillard_51, Esperer_25, Et2Brutus_29, EtoileNova_31, EvilGenius_32, Expelliarmus_26, ExplosioNervosa_32, Fameo_30, Farber_32, FatCactus_28, Fayely_32, Fernando_32, Fibonacci_30, Finkle_22, FiringLine_30, First_0030, Flare16_30, Flaverint_30, Florence1_27, Florence4_28, FlyCatcher_33, ForGetIt_27, Fred313_30, Fulbright_29, Gaia_36, Gail_30, Garak_34, GaugeLDP_32, Gemma_32, George_26, Georgie2_31, Gex_30, Ghoulboy_27, Gilberta_30, GingkoMaracino_32, GirlDinner_25, Giroux_31, Gladiator_33, Goby_25, Godpower_26, Gonephishing_52, Gratitude_31, GreedyLawyer_33, GreenWeasel_27, Grif_32, Groundhog_26, Groupthink_33, Grub_32, Grum1_32, Gruunaga_33, GtownJaz_32, Gwennie_31, Haizum_25, Halley_51, Hammer_33, Hanako_27, Hank144_26, Hannaconda_47, Hanray_31, HarryHoudini_32, HashRod_33, HaveUMetTed_33, Heathen_30, Heffalump_32, HelDan_30, Heliosoles_32, Helmet_33, Hercules11_32, Hexamo_33, Hidrated_51, HippoHollow_31, Hippo_24, HokkenD_44, Horex_31, Hookmount_31, Hoot_33, HortumSL17_32, Hughesyang_49, HuhtaEnerson15_27, Hutc2_30, Hydra_27, Idleandcovert_30, Indigo_24, Indra_33, Insomnia_30, Isca_30, Isiphiwo_33, Issmi_26, Itza_27, Iwokeuplikedis_31, Izzy_26, JF2_30, JF4_30, JHC117_32, JSwag_32, Jabiru_27, Jabith_30, Jamie19_27, Janus_26, Jash_26, Jeeves_30, Jeffabunny_33, JenCasNa_32, JeppNRM_33, Jerm_32, Jevington_27, JewelBug_33, Jhitchelle_27, Jiawan_31, Jobu08_32, Jordennis_33, Joselito_30, JoshKayV_32, Journey13_28, Journey_30, Jovo_27, Jsquared_29, JuicyJay_53, KADY_33, Kachowdy_30, Kaine_26, Kalah2_51, Kalb97_33, Kalnoky_33, Kalpine_33, KashFlow_44, Katalie_25, KatherineG_32, Kazan_33, Keziacharles14_30, Kimba_30, Kimona_27, KingCyrus_32, Kinmap_31, Kipper29_33, Klein_51, Klodlith_30, Koduck_30, Koko_33, L5_30, LBerry_32, LadyBird_30, Lambert1_31, Lannister_27, Larenn_31, LarryKay_32, LastResort_32, Legacy_25, Leogania_32, Lev2_27, Leviathan_32, Leviticus_25, Lika_25, LiITurb_32, Lilbunny_33, Lilith_32, Lilleskat_30, LionsBait_31, LittleCherry_27, LittleE_55, Lokk_33, LoneWolf_31, Loofah_26, Looper_33, Lorelei_25, Louie6_32, Lowa_32, Luchador_32, Lucivia_30, Lucky2013_50, Lucyedi_31, LugYA_34, MA5_30, MK4_30, MaCh_30, Mabel_30, MadMarie_32, Magsby_30, Mainiac_32, MajorMajor_29, Malec_31, Malinsilva_34, Maminiaina_31, Maneekul_24, Manu_33, MarQuardt_32, Marav_28, Marchesa_30, Margo_31, Marie_32, Marius_33, Marleymoo_52, MarysWell_26, McFly_33, MegTheThird_30, Melville_30, Methuselah_31, MiaZeal_50, Micasa_27, MichelleMyBell_28, Microwolf_32, MiculUcigas_30, Midas2_27, Miko_33, Milcery_27, MinecraftSteve_33, Minerva_57, Minispark_28, Misomonster_34, MissWhite_30, MoneyMay_32, Montavir_31, MuchMore_34,

Mulciber_30, Munch_30, MyraDee_28, Myxus_32, NaSiaTalie_30, Nabi_25, Naca_27, Nanodon_27, NearlyHeadless_27, Nebkiss_37, Nebulosus_32, Nedarya_31, Neeharika16_33, Nekros_49, Nenae_27, Nerdos_25, Newrala_33, Nibley_45, NicoleTera_34, NihilNomen_50, Nishikigoi_25, Noella_31, Norbert_30, NothingSpecial_32, Odette_51, Odin_29, OlanP_32, Oliynyk_26, Ollie_32, Omar_26, Omega_55, Onglai_31, Oofda_32, Optimus_56, Orange_30, Ozzie_25, OzzyJ_25, P28Green_32, PGHhamlin_34, PP_39, Pablito_25, PackMan_32, Paedore_25, PainterBoy_31, Panamaxus_30, Panchino_27, Paolo_27, ParmesanJohn_30, Pavo_27, Pawn_32, Pembroke_32, Penny1_32, Petersenfast_29, PetterN_28, Ph8s_31, Phaeder_32, PhancyPhin_27, Phantastic_30, Pharaoh_30, Phettuccine_25, Philonius_30, PhishRPhriends_31, Phlei_25, Phlorence_27, Phloss_27, Phoebe_32, Phoebus_50, Phonnegut_32, Phoxy_32, Phranny_33, PickleBack_27, Pioneer_32, Pipsqueaks_30, Piro94_31, Pistachio_31, Pmask_33, Pocahontas_31, Polyphemus_33, Popcicle_31, Porcelain_49, PotatoSplit_33, Pound_53, Power_30, Priamo_33, Prinash11_28, Priya_32, Provolone_27, Puginator_27, Pukovnik_32, Puppy_31, Purgamenstris_27, Purky_28, PurpleHaze_32, Qobbit_32, QueenB2_30, QueenBeesly_30, QuinnKiro_30, Quokka_28, R4_25, Rachaly_33, Rahalelujah_29, Rana_25, Ravana_33, Raymond7_27, ReMo_32, Rearden_45, Reba_33, Rebel_27, RedBear_26, Redi_27, Redno2_49, Remus_32, ResDef_31, Retro23_30, Rifter_33, Roary_27, Rockstar_30, Roimos_30, Roksolana_33, Rosalind_32, Rummer_32, Rusticus_26, RyeScarlet_33, Sabia_32, Sabinator_32, Sachima_30, Saftant_26, Saintus_27, Salz_30, SarahRose_24, Saskia_29, SaturnRing_30, Schatzie_48, Scherzo_32, Schnauzer_30, Scitech_27, Scorpia_28, Scout_30, SemperFi_32, Serenity_29, Shaboozey_43, Sham4_30, ShayRa_33, SheaKeira_30, Sheen_31, ShrimpFriedEgg_27, Shweta_27, Silvafighter_30, Silvy_30, SkinnyPete_27, Sknot_30, Smeadley_27, Smeagan_32, SmellyB_33, Smurph_30, SnapTap_30, Snape_30, Snekmaggon_27, Snickers_32, Snorlax_24, SoYo_32, SoilDragon_32, SororFago_30, Soshari_34, Soups_32, South40_25, Speedwell_31, Spike509_32, Spinach_27, SpongeBob_27, Spouty_32, SqueakyClean_26, Squint_49, Squirty_28, Stagni_32, Stellammi_38, StepMih_32, Stephig9_27, Strosahl_32, Sudan_27, Sujidade_26, Sunhee_29, SunsetPointe_25, SuperAwesome_33, SuperCallie99_33, Superchunk_29, Superphikiman_50, Superstar_28, SweetiePie_30, SwirlSquare_32, Swirley_27, Switzerland_32, SydNat_27, TNguyen7_30, TagePhighter_25, Tapioca_30, TarsusIV_30, Tarynearal_26, Taurus_32, Tefunt_25, Temprado_33, Terrific_34, Texage_30, Theia_25, Thestral_26, Thibault_44, ThreeRngTarjay_49, Tiffany_32, Tiger_27, Timothy_30, TinaBelcher_25, TinyPebbles_32, TinyTimmy_30, TipsytheTRex_29, Toaka_29, Todacoro_31, Toma_25, ToneTone_31, Toro_32, Tortellini_28, Tortoise12_30, Triste_24, Triumph_27, Trixie_33, Trooper_30, TrvxScott_24, TuanPN_24, Tubs_32, Tucker_33, Turbido_32, Twigg_27, Ugenie5_29, UnionJack_27, Unstoppable_25, Updawg_32, Urza_27, VA6_30, VC3_33, Vanisoa_29, Vanseggelen_31, Veracruz_30, Verse_26, VieEnRose_27, Vix_32, VohminGhazi_33, WST1_28, Waits_32, Wanda_57, Warrior24_32, Watson_32, WeiHuaDA_36, Werner_24, Whabigail7_32, Whatever_24, WideWale_32, Wiks_33, Willsammy_28, Wolpertinger_29, Wooldri_34, WorldCup_28, WunderPhul_33, Xen0_29, Xerxes_30, XianYue_30, Xiaokay_46, Yasdn1l_24, Yecey3_31, Yeet_49, Yokurt_33, Yosif_27, Zainub_27, Zaka_33, ZamZam_29, Zarafa_30, Zelink_52, Zemlya_26, Zetzy_31, Zimmer_32, Zolita_26, Zulu_33, phiCAM_27, phiHau3_27,

Summary by start number:

Start 39:

- Found in 40 of 1003 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 870
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Bonamassa_27 (A5), Theia_25 (A5),

Start 42:

- Found in 12 of 1003 (1.2%) of genes in pham
- Manual Annotations of this start: 12 of 870
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BabeRuth_27 (N), Hanako_27 (N), Nенаe_27 (N), Panchino_27 (N), PhancyPhin_27 (N), Purgamenstris_27 (N), Raymond7_27 (N), Redi_27 (N), ShrimpFriedEgg_27 (N), Spinach_27 (N), Tortellini_28 (P2), Willsammy_28 (P1),

Start 43:

- Found in 38 of 1003 (3.8%) of genes in pham
- Manual Annotations of this start: 34 of 870
- Called 97.4% of time when present
- Phage (with cluster) where this start called: Aggie_30 (N), Andies_27 (N), Bosection6_30 (N), Carcharodon_30 (N), Charlie_30 (N), Chewbacca_30 (N), Cubone_30 (N), Duplicity_30 (N), EGUnicorn_30 (N), Fulbright_29 (N), Gex_30 (N), Jamie19_27 (N), Journey_30 (N), Magsby_30 (N), Melville_30 (N), MichelleMyBell_28 (N), Parmesanjohn_30 (N), Philonius_30 (N), Phloss_27 (N), Pipsqueaks_30 (N), Purky_28 (P6), Rebel_27 (N), Schnauzer_30 (N), Scitech_27 (N), Shweta_27 (N), Silvafighter_30 (N), Silvy_30 (N), SkinnyPete_27 (N), Smurph_30 (N), Snekmaggedon_27 (N), SpongeBob_27 (N), Squirty_28 (F3), Tapioca_30 (N), Tortoise12_30 (N), WST1_28 (AJ), Xeno_29 (N), Xerxes_30 (N),

Start 45:

- Found in 321 of 1003 (32.0%) of genes in pham
- Manual Annotations of this start: 263 of 870
- Called 92.5% of time when present
- Phage (with cluster) where this start called: Akhila_27 (F1), Alexphander_36 (F1), Aloeri_35 (F1), ArcusAngelus_33 (F1), Ardmore_32 (F1), Arib1_29 (P1), Atcoo_29 (P1), Aubs_34 (F1), Awesomesauce_34 (F1), Babsiella_29 (I1), Bartholomew_28 (P1), Batiatus_33 (F1), Beakin_34 (F1), Beanstalk_38 (F1), Bhagsy_29 (P1), BigPhil_29 (F1), Bipolar_30 (F1), Blarby_42 (F), Blexus_33 (F1), BlueCrab_33 (F1), Bluvara_30 (UNK), Bobi_35 (F1), BodEinwohner17_33 (F1), Bogie_31 (P1), Boomer_35 (F1), Brocalys_28 (F1), BronnyJr_29 (P1), Brookers_31 (F1), Brujita_32 (I1), Brusacoram_29 (P1), Brushbloom_34 (F1), Bubbles123_35 (F1), Bunnies_29 (P1), Burwell21_33 (F1), Butters_29 (N), BuzzLyseyear_36 (F1), Byougenkin_33 (F1), Cabrinians_33 (F1), CactusJack_29 (P1), Camster_29 (P1), CaptainTrips_34 (F1), Cerasum_29 (F1), Che8_35 (F1), ChickenDinner_35 (F1), Chubbello_29 (none), Chuckly_33 (F1), Clank_31 (F), Clifton_27 (F1), Coco12_33 (F1), Corium_33 (F1), Cornie_33 (F5), Cornucopia_34 (F1), DLane_33 (F1), DRBy19_33 (F1), DaWorst_35 (F1), DaddyRickover_33 (F1), Daenerys_33 (F1), Dante_33 (F1), DeadP_33 (F1), Deb65_33 (F1), DillTech15_33 (F1), DirtMcgirt_34 (F1), DocMcStuffins_35 (F1), Donkeykong_33 (F1), Donovan_29 (P1), Doomphist_33 (F1), Doomslug_37 (F), Dorothy_33 (F1), DosHalletts_35 (F1), DotProduct_33 (F1), Doug_34 (F1), Drago_34 (F1), Dynamo_29 (P1), Eish_33 (F1), EleanorGeorge_34 (F1), EmiMonkey_34 (F1), Emma_35 (F1), Emmaloid_35 (F1), Empress_34 (F1), Enby_35 (F1), Enzomatic_38 (F1), Eradicator_33 (F1), Estave1_31 (F1), Etoile_29 (P1), Fancypants_33 (F1), Filuzino_33 (F1), Firehouse51_34 (F1), FirstPlacePfu_29 (P1), Fishburne_29 (P1),

Flathead_33 (F1), Florinda_33 (F1), Frankie_37 (F1), Fruitloop_32 (F1), GUmbie_33 (F1), Galactic_35 (F1), GaloreK_29 (P1), Gandalph_34 (F1), Gavriela_29 (P1), Geralt_33 (F1), Girafales_34 (F1), Girr_35 (F1), Glaske_29 (P1), Gorge_33 (F1), GreaseLightnin_29 (P1), Grimmer_35 (F1), Guppsters_35 (F1), HC_30 (I1), HUHilltop_29 (P1), Hades_34 (F1), Hamulus_34 (F1), Harley_33 (F1), Hegedechwinu_34 (F1), Hlubikazi_34 (F1), IMpilo_32 (F1), IbOuu_35 (F1), Ibhubesi_33 (F1), Impisi_29 (N), Inventum_33 (F1), IrishSherpFalk_35 (F1), Island3_32 (I1), JalFarm20_36 (F1), James_33 (F1), Jant_34 (F1), Jarcob_33 (F1), Jebeks_29 (P1), Jennelsea_27 (F1), Jinglebell_32 (F1), Job42_37 (F1), JoeyJr_33 (F1), Juice456_35 (F1), Jung_28 (P1), Juniormint_29 (P1), Karhdo_33 (F1), Kari_29 (P1), Kenuha5_30 (F1), Kersh_32 (F1), Kevin1_29 (N), KilKor_29 (P1), Kimberlium_35 (F1), KingJulian_33 (F1), KingMidas_35 (F1), Kingsley_32 (F1), Koella_27 (F1), Krakatau_34 (F1), KristaRAM_34 (F1), Ksquared_29 (P1), Langerak_29 (P1), LastJedi_27 (F1), Latretium_34 (F1), Leozinho_35 (F1), LilMoolah_33 (F1), Lizziana_33 (F1), Llama_33 (F1), Llij_33 (F1), LordVader_30 (F), Lorde_35 (F1), Lucia_35 (F1), LunaBlu_36 (F1), MadMen_31 (F1), Mahavrat_33 (F1), Majeke_29 (P1), Malithi_29 (P1), Mandlovu_34 (F1), Mangethe_29 (P1), Mantra_33 (F1), Maravista_33 (F1), Marker_34 (F1), Martik_33 (F1), Mattes_33 (F1), Medindi_34 (F1), Megiddo_29 (P1), Melissauren88_33 (F1), MilanaBonita_27 (F1), MilleniumForce_34 (F1), MinionDave_36 (F1), Minnie_35 (F1), Misha28_34 (F1), MisterCuddles_35 (F1), Modragons_33 (F1), Moonbeam_34 (F1), Mova_34 (F1), Mozy_35 (F1), Ms6_27 (F1), MulchExplorer_37 (F1), MulchSalad_32 (F7), Mutaforma13_33 (F1), Necropolis_29 (P1), NewHope4_37 (F1), Nimbo_33 (F1), Nitzel_34 (F1), Nivrat_33 (F1), NormanBulbieJr_33 (F1), Ochi17_31 (F1), Ogopogo_33 (F1), Oksu_34 (F1), OldBen_33 (F1), OlympiaSaint_33 (F1), Ovechkin_34 (F1), OwlsT2W_34 (F1), PHappiness_33 (F1), PMC_33 (F1), Pacc40_33 (F1), PatoPoderoso_33 (F1), PeanutPie_29 (P1), Peridot_38 (F1), Phalconet_33 (F1), Phalm_29 (P1), Phanphagia_30 (F1), Phasih_34 (F1), Phatniss_34 (F1), Phegasus_29 (P1), PhesterPhotato_33 (F1), Philus_33 (F1), Phineas_29 (P1), Phrann_28 (N), Piper2020_35 (F1), Pippy_27 (F1), Plumbus_35 (F1), Poenanya_33 (F1), Polka14_34 (F1), Polkaroo_29 (P1), Pollywog_33 (F1), Polo2Bam_38 (F1), PopTart_33 (F1), Priscilla_33 (F1), Pygmy_31 (P1), QuickMath_34 (F1), Quico_34 (F1), Radiance_33 (F1), RedBird_33 (F1), Renaud18_33 (F4), Rialto_37 (F1), RitaG_34 (F1), Rita_34 (F1), Rockne_33 (F1), RockyHorror_34 (F1), Royals2015_33 (F1), Rubeelu_29 (N), Ruby_35 (F1), SG4_34 (F1), Saal_33 (F1), Sabbb_34 (F1), Sandalphon_34 (F1), Sarma624_29 (F1), Sassafras_34 (F1), SassyB_33 (F1), Scottish_34 (F1), Seagreen_34 (F1), Shauna1_30 (F1), ShiLan_33 (F1), Shipwreck_31 (P1), ShowerHandel_33 (F1), ShroomBoi_30 (F1), SiSi_33 (F1), SilverChicken_41 (F2), Slim_35 (F1), Sonah_29 (P1), Soul22_38 (F2), Sparkdehlily_33 (F1), Spartacus_35 (F1), Spikelee_35 (F1), Spoonbill_33 (F1), StAnnes_32 (F1), Stap_34 (F1), Starcevich_37 (F1), StevieRay_29 (P1), StressBall_29 (P1), Strokeseat_34 (F1), SuperGrey_34 (F1), SwagPiggett_33 (F1), TDanisky_33 (F1), Taj_33 (F1), Techage_29 (P1), Thespis_29 (P1), TootsiePop_34 (F1), Tootsieroll_34 (F1), Totinger_34 (F1), Tweety_33 (F1), UncleRicky_36 (F1), VRedHorse_33 (F1), Velveteen_29 (F1), Venti_29 (P1), Veteran_33 (F1), Vidya_29 (P1), Violac_34 (F1), Vivum_34 (F1), Wachhund_33 (F1), Wee_34 (F1), Whatsapiecost_34 (F1), Whouxphf_34 (F1), WillSterrel_35 (F1), XFactor_33 (F1), Xavia_29 (P3), Yorick_33 (F1), Zerg_33 (F1), Zilizebeth_29 (P1), Zizzle_33 (F1),

Start 46:

- Found in 101 of 1003 (10.1%) of genes in pham
- Manual Annotations of this start: 18 of 870

- Called 18.8% of time when present
- Phage (with cluster) where this start called: AlpineSix_34 (F1), CheesePuff_36 (F1), Chevrolet_34 (F1), Crumble_27 (F1), DoRead_34 (F1), Fastidio_35 (F1), FreddyB_33 (F1), GigiOuiOui_33 (F1), Juniper1_33 (F1), Leperchaun_33 (F1), LittleShirley_36 (F1), Madiba_31 (F1), OfUltron_33 (F1), PaintedDog_32 (I1), PhilipPhlop_34 (F1), QueenHazel_28 (I1), Ramsey_36 (F1), Sebastian_33 (F1), Xula_27 (I1),

Start 49:

- Found in 134 of 1003 (13.4%) of genes in pham
- Manual Annotations of this start: 3 of 870
- Called 2.2% of time when present
- Phage (with cluster) where this start called: Gemma_32 (A3), KADY_33 (A3), Veracruz_30 (A3),

Start 50:

- Found in 258 of 1003 (25.7%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 0.8% of time when present
- Phage (with cluster) where this start called: BobaPhett_33 (F1), Topiatin_36 (F1),

Start 52:

- Found in 52 of 1003 (5.2%) of genes in pham
- Manual Annotations of this start: 40 of 870
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_50 (J), BAKA_55 (J), Bagrid_50 (J), Beem_51 (J), Bobby_50 (J), Bombitas_48 (J), BronnyJames_43 (J), Constella_43 (J), Courthouse_50 (J), Dallas_53 (J), DmpstrDiver_52 (J), Dove_48 (J), Duke13_54 (J), Ejimix_51 (J), EricMillard_51 (J), Gonephishing_52 (J), Halley_51 (J), Hannaconda_47 (J), Hidrated_51 (J), HokkenD_44 (J), Hughesyang_49 (J), JuicyJay_53 (J), Kalah2_51 (J), KashFlow_44 (J), Klein_51 (J), LittleE_55 (J), Lucky2013_50 (J), Marleymoo_52 (J), MiaZeal_50 (J), Minerva_57 (J), Nekros_49 (J), Nibley_45 (J), NihilNomen_50 (J), Odette_51 (J), Omega_55 (J), Optimus_56 (J), Phoebus_50 (J), Porcelain_49 (J), Pound_53 (J), Rearden_45 (J), Redno2_49 (J), Schatzie_48 (J), Shaboozey_43 (J), Squint_49 (J), Stellammi_38 (UNK), Superphikiman_50 (J), Thibault_44 (J), ThreeRngTarjay_49 (J), Wanda_57 (J), Xiaokay_46 (J), Yeet_49 (J), Zelink_52 (J),

Start 53:

- Found in 36 of 1003 (3.6%) of genes in pham
- Manual Annotations of this start: 29 of 870
- Called 86.1% of time when present
- Phage (with cluster) where this start called: AN3_30 (A2), AN9_33 (A2), ANI8_33 (A2), Adzzy_31 (A2), Aneem_30 (A11), Bachome_30 (A11), Bud_30 (A11), C3_28 (A2), Ebony_30 (A11), Et2Brutus_29 (A11), Fibonacci_30 (A11), Flaverint_30 (A11), Gilberta_30 (A11), Hutc2_30 (A11), Insomnia_30 (A11), Jabith_30 (A11), Joselito_30 (A11), Lucivia_30 (A11), MaCh_30 (A11), Mulciber_30 (A11), Munch_30 (A11), Orange_30 (A11), Petersenfast_29 (A11), Ph8s_31 (A2), Salz_30 (A11), Sham4_30 (A11), Snape_30 (A11), Timothy_30 (A11), VA6_30 (A2), VC3_33 (A2), Wolpertinger_29 (A11),

Start 54:

- Found in 275 of 1003 (27.4%) of genes in pham
- Manual Annotations of this start: 19 of 870

- Called 8.7% of time when present
- Phage (with cluster) where this start called: 20ES_30 (A2), Acolyte_30 (A2), BengiVuitton_31 (A2), BiancaTri92_32 (A2), CRB1_30 (A2), ChipMunk_32 (A2), Deloris_31 (A2), EvilGenius_32 (A2), First_0030 (A2), Gaia_36 (X), Georgie2_31 (A2), JoshKayV_32 (A2), KingCyrus_32 (A2), Leogania_32 (A2), Mwanjiwa_34 (F1), MyraDee_28 (A18), Nebkiss_37 (X), NothingSpecial_32 (A2), Pharaoh_30 (A12), Power_30 (A2), SimranZ1_36 (F1), TarsusIV_30 (A2), Tchotchke_33 (F1), Trooper_30 (A2),

Start 55:

- Found in 134 of 1003 (13.4%) of genes in pham
- Manual Annotations of this start: 109 of 870
- Called 97.8% of time when present
- Phage (with cluster) where this start called: AbbyPaige_32 (A2), Agape74_32 (A2), Anaysia_32 (A15), Anon_30 (A15), Arissanae_30 (A9), Artemis2UCLA_33 (A6), BABullseye_33 (A6), Battleship_33 (A15), Bellris_28 (A9), BennyP_33 (A6), BlessJoy_33 (A6), Blinn1_33 (A6), Blue7_33 (A6), BogosyJay_31 (A9), Boohoo_32 (A15), Bowtie_30 (A11), Buggy_32 (A2), Candra_33 (A6), Caraxes_29 (A2), Celestiallunch_30 (A9), Chargerpower_31 (A22), Charm_30 (A9), Chartreuse_33 (A6), Che12_32 (A2), CloudWang3_33 (A6), CogOmlette_28 (A9), Colin_34 (A2), Cookiedough_33 (A6), DaVinci_33 (A6), DarthPhader_31 (A12), DekHockey33_32 (A15), DelvinSonDorr_32 (A6), Dignity_32 (A2), Dorothea_33 (A6), DreamTeam1_30 (A9), EagleEye_32 (A16), Elle_30 (A15), Epsocamisio_32 (A15), EricB_33 (A6), FatCactus_28 (A20), Gail_30 (A14), Garak_34 (A6), Gladiator_33 (A6), GreedyLawyer_33 (A6), Gruunaga_33 (A6), Hammer_33 (A6), Helmet_33 (A6), Hexamo_33 (A6), Hoot_33 (A6), Indra_33 (A6), Isiphiwo_33 (A6), JSwag_32 (A15), Jeeves_30 (A14), Jeffabunny_33 (A6), Jerm_32 (A2), JewelBug_33 (A6), Jordennis_33 (A6), KatherineG_32 (A15), Kazan_33 (A6), Keziacharles14_30 (A9), Kimba_30 (A11), Kinmap_31 (A21), Kipper29_33 (A6), Klodlith_30 (A9), Koduck_30 (A2), Koko_33 (A6), L5_30 (A2), LastResort_32 (A15), Leviathan_32 (A2), LilTurb_32 (A2), Lilbunny_33 (A6), Looper_33 (A15), Luchador_32 (A14), Lucyedi_31 (A16), Mabel_30 (A11), Maminiaina_31 (A9), McFly_33 (A6), MegTheThird_30 (A9), MinecraftSteve_33 (A15), Minispark_28 (A9), Nebulosus_32 (A15), Nedarya_31 (A15), Neeharika16_33 (A6), Newrala_33 (A6), Odin_29 (A2), Oofda_32 (A15), PainterBoy_31 (A16), Pmask_33 (A6), Polyphemus_33 (A6), Priamo_33 (A6), Rahalelujah_29 (A9), Ravana_33 (A15), ReMo_32 (A15), Remus_32 (A15), Rifter_33 (A6), Roksolana_33 (A6), Rosalind_32 (A15), Saskia_29 (A11), ShayRa_33 (A15), SheaKeira_30 (A9), Smeagan_32 (A2), SmellyB_33 (A6), SororFago_30 (A14), Soups_32 (A15), Strosahl_32 (A15), Sunhee_29 (A14), SuperAwesome_33 (A6), SuperCallie99_33 (A6), Superchunk_29 (A2), SwirlSquare_32 (A2), Switzerland_32 (A15), Temprado_33 (A6), TinyTimmy_30 (A11), ToneTone_31 (A6), Trixie_33 (A2), Tucker_33 (A6), Turbido_32 (A2), Vanisoa_29 (A9), VohminGhazi_33 (A6), Waits_32 (A15), Warrior24_32 (A15), Whabigail7_32 (A2), Wiks_33 (A6), WorldCup_28 (A9), WunderPhul_33 (A6), XianYue_30 (A2), Yecey3_31 (A9), Yokurt_33 (A6), Zaka_33 (A6), Zimmer_32 (A12), Zulu_33 (A6),

Start 56:

- Found in 35 of 1003 (3.5%) of genes in pham
- Manual Annotations of this start: 26 of 870
- Called 94.3% of time when present
- Phage (with cluster) where this start called: Aliter_32 (A9), Alma_32 (A9), Ayanochan_33 (A9), Beemo_32 (A9), Catalina_33 (A9), Conquerage_32 (A9), Darrell_32 (A9), Eidsmoe_32 (A9), Elephantoon_31 (A9), EmyBug_32 (A9),

ExplosioNervosa_32 (A9), Fayely_32 (A9), Hanray_31 (A9), Holec_31 (A9), HortumSL17_32 (A9), Jiawan_31 (A9), Journey13_28 (A2), Lilleskat_30 (A9), LoneWolf_31 (A9), MissWhite_30 (A2), Myxus_32 (A9), Onglai_31 (A9), PackMan_32 (A9), Phaeder_32 (A9), Phonnegut_32 (A9), Pioneer_32 (A9), Priya_32 (A9), Qobbit_32 (A9), RyeScarlet_33 (A9), Scherzo_32 (A9), Spouty_32 (A9), Tubs_32 (A9), Ugenie5_29 (A9),

Start 57:

- Found in 1 of 1003 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toaka_29 (A9),

Start 58:

- Found in 35 of 1003 (3.5%) of genes in pham
- Manual Annotations of this start: 27 of 870
- Called 97.1% of time when present
- Phage (with cluster) where this start called: 40AC_33 (A17), BabyBack_32 (A2), Baehexic_31 (A2), Benvolio_30 (A2), Bradman_29 (A2), Centaur_32 (A2), Drake55_32 (A2), EZMoney23_34 (A2), Echild_30 (A2), Equemioh13_32 (A2), Finkle_22 (singleton), Flare16_30 (A2), GaugeLDP_32 (A2), Gratitude_31 (A2), HarryHoudini_32 (A2), Iwokeuplikedis_31 (A2), Jsquared_29 (A2), LadyBird_30 (A2), Larenn_31 (A2), MajorMajor_29 (A2), Malec_31 (A2), MiculUcigas_30 (A2), NaSiaTalie_30 (A2), NicoleTera_34 (A2), PP_39 (A7), Piro94_31 (A2), Pukovnik_32 (A2), Quokka_28 (A2), Serenity_29 (A2), Sknot_30 (A2), Terrific_34 (A2), TipsytheTRex_29 (A2), Updawg_32 (A2), WideWale_32 (A2),

Start 60:

- Found in 21 of 1003 (2.1%) of genes in pham
- Manual Annotations of this start: 17 of 870
- Called 81.0% of time when present
- Phage (with cluster) where this start called: Asten_24 (BD1), BarryBee_26 (BD1), Chucky_24 (BD1), Dwayne_24 (BD1), Ejemplo_24 (BD1), Emaanora_26 (BD1), Hippo_24 (BD1), Maneekul_24 (BD1), OzzyJ_25 (BD1), SarahRose_24 (BD1), Snorlax_24 (BD1), TagePhighter_25 (BD1), Triste_24 (BD1), TuanPN_24 (BD1), Werner_24 (BD1), Whatever_24 (BD1), Yasdnil_24 (BD1),

Start 61:

- Found in 1 of 1003 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yosif_27 (BD3),

Start 62:

- Found in 32 of 1003 (3.2%) of genes in pham
- Manual Annotations of this start: 29 of 870
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Alvy_27 (BD2), Amethyst_25 (BD2), Andris_25 (BD2), Animus_26 (BD2), Axiom_26 (BD2), BartholomewSD_27 (BD2), Bowden_26 (BD2), BroPlease_26 (BD4), Caelum_26 (BD2), Daudau_25 (BD2), Diane_25 (BD2), GirlDinner_25 (BD2), GreenWeasel_27 (BD4), Haizum_25 (BD2), Issmi_26 (BD2), Janus_26 (BD2), Jevington_27 (BD2), Marav_28 (BD2), Nishikigoi_25 (BD2), Omar_26 (BD2), Paolo_27 (BD2), Puginator_27 (BD2),

SqueakyClean_26 (BD2), Superstar_28 (BD2), Tefunt_25 (BD2), TinaBelcher_25 (BD2), Triumph_27 (BD2), TrvxScott_24 (BD2), Zainub_27 (BD2), phiHau3_27 (BD4),

Start 63:

- Found in 64 of 1003 (6.4%) of genes in pham
- Manual Annotations of this start: 52 of 870
- Called 90.6% of time when present
- Phage (with cluster) where this start called: Aaronocolus_25 (BD1), Alsaber_27 (BD3), Amela_26 (BD3), BeardedLady_26 (BD1), Bovely_25 (BD1), Brataylor_27 (BD1), BryanRecycles_26 (BD1), Caliburn_25 (BD1), Celery_29 (BD3), Celeste_25 (BD1), Celia_27 (BD6), Conan_27 (BD3), Danzina_26 (BD1), Dattran_26 (BD1), Dexers_25 (BD3), Eddasa_26 (BD1), ElGato_27 (BD3), EnochSoames_27 (BD1), Esperer_25 (BD1), Goby_25 (BD1), Godpower_26 (BD1), Hank144_26 (BD2), Indigo_24 (BD1), Itza_27 (BD6), Izzy_26 (BD1), Jash_26 (BD1), Jhitchelle_27 (BD3), Kaine_26 (BD3), Katalie_25 (BD1), Legacy_25 (BD1), Leviticus_25 (BD1), Lika_25 (BD1), Lorelei_25 (BD1), Nabi_25 (BD1), Nanodon_27 (BD1), Nerdos_25 (BD1), Ozzie_25 (BD1), Pablito_25 (BD2), Pavo_27 (BD3), Phettuccine_25 (BD1), Provolone_27 (BD3), Rana_25 (BD1), RedBear_26 (BD1), Rusticus_26 (BD1), Saftant_26 (BD3), South40_25 (BD1), Speedwell_31 (BD3), Sudan_27 (BD3), Sujidade_26 (BD1), SunsetPointe_25 (BD1), Toma_25 (BD1), Unstoppable_25 (BD1), Urza_27 (BD6), Vanseggelen_31 (BD3), Verse_26 (BD3), VieEnRose_27 (BD6), ZamZam_29 (BD3), Zemlya_26 (BD1),

Start 64:

- Found in 4 of 1003 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 25.0% of time when present
- Phage (with cluster) where this start called: R4_25 (BD2),

Start 65:

- Found in 64 of 1003 (6.4%) of genes in pham
- Manual Annotations of this start: 36 of 870
- Called 59.4% of time when present
- Phage (with cluster) where this start called: AgentM_27 (A5), Airmid_27 (A5), Archetta_27 (A5), Astro_27 (A8), Benedict_27 (A5), Bluefalcon_26 (A5), Caitlin_26 (A8), Chadwick_28 (A5), Conspiracy_27 (A5), Danforth_26 (A8), Discoknowium_27 (A5), Dixon_27 (A8), Dublin_26 (A5), EITiger69_27 (A5), Expelliarmus_26 (A8), ForGetIt_27 (A5), Ghoulboy_27 (A5), Groundhog_26 (A8), HuhtaEnerson15_27 (A5), Jabiru_27 (A5), Jovo_27 (A5), Lev2_27 (A5), Micasa_27 (A5), Milcery_27 (A5), NearlyHeadless_27 (A8), PetterN_28 (A5), Phlei_25 (A13), Phlorence_27 (A5), PickleBack_27 (A5), Roary_27 (A8), Saintus_27 (A8), Scorpia_28 (A5), Smeadley_27 (A8), Stephig9_27 (A8), SydNat_27 (A5), Tarynearal_26 (A5), UnionJack_27 (A5), Zolita_26 (A5),

Start 66:

- Found in 142 of 1003 (14.2%) of genes in pham
- Manual Annotations of this start: 113 of 870
- Called 92.3% of time when present
- Phage (with cluster) where this start called: ACFishhook_32 (A3), Aglet_32 (A3), AgronaGT15_32 (A3), Anubis_34 (A3), AugsMagnumOpus_34 (A3), B1_28 (A3), BabyJohn_29 (A3), BabyRay_30 (A3), Beauxregard13_32 (A3), Bigflo_32 (A3), BlueBird_31 (A3), BreSam8_32 (A3), Bugatti_30 (A3), BuzzBuzz_31 (A3), Bxz2_31 (A3), Calvinny_33 (A3), Caviar_31 (A3), Chiqui_29 (A3), Clammy_30 (A3),

ClownCar_33 (A3), Colbster_32 (A3), Croquant_33 (A3), Cullens_32 (A3), DaHudson_32 (A3), Daishi_31 (A3), Dieselweasel_32 (A3), DropBear_30 (A3), EpicPhail_32 (A3), EtoileNova_31 (A3), Farber_32 (A3), Fernando_32 (A3), Fred313_30 (A3), GingkoMaracino_32 (A3), Giroux_31 (A3), Grif_32 (A3), Groupthink_33 (A3), Grub_32 (A3), Grum1_32 (A3), GtownJaz_32 (A3), Gwennie_31 (A3), HashRod_33 (A3), HaveUMetTed_33 (A3), Heathen_30 (A3), HelDan_30 (A3), Heliosoles_32 (A3), Hercules11_32 (A3), Hookmount_31 (A3), Idleandcovert_30 (A3), Isca_30 (A3), JF2_30 (A3), JF4_30 (A3), JHC117_32 (A3), JenCasNa_32 (A3), JeppNRM_33 (A3), Jobu08_32 (A3), Kachowdy_30 (A3), Kalb97_33 (A3), Kalnoky_33 (A3), LBerry_32 (A3), Lambert1_31 (A3), LarryKay_32 (A3), Lilith_32 (A3), Louie6_32 (A3), Lowa_32 (A3), LugYA_34 (A3), MA5_30 (A3), MK4_30 (A3), MadMarie_32 (A3), Mainiac_32 (A3), Malinsilva_34 (A3), Manu_33 (A3), MarQuardt_32 (A3), Marchesa_30 (A3), Margo_31 (A3), Marie_32 (A3), Marius_33 (A3), Methuselah_31 (A3), Microwolf_32 (A3), Misomonster_34 (A3), MoneyMay_32 (A3), Montavir_31 (A3), MuchMore_34 (A3), Noella_31 (A3), Norbert_30 (A3), OlanP_32 (A3), Ollie_32 (A3), P28Green_32 (A3), PGHhamlin_34 (A3), Panamaxus_30 (A3), Pawn_32 (A3), Pembroke_32 (A3), Penny1_32 (A3), Phantastic_30 (A3), PhishRPhriends_31 (A3), Phoebe_32 (A3), Phoxy_32 (A3), Phranny_33 (A3), Pistachio_31 (A3), Pocahontas_31 (A3), Popcicle_31 (A3), PotatoSplit_33 (A3), Puppy_31 (A3), PurpleHaze_32 (A3), QuinnKiro_30 (A3), Reba_33 (A3), ResDef_31 (A3), Rockstar_30 (A3), Roimos_30 (A3), Rummer_32 (A3), Sabia_32 (A3), Sabinator_32 (A3), SaturnRing_30 (A3), Scout_30 (A3), Snickers_32 (A3), SoYo_32 (A3), SoilDragon_32 (A3), Soshari_34 (A3), Spike509_32 (A3), Stagni_32 (A3), StepMih_32 (A3), TNguyen7_30 (A3), Taurus_32 (A3), Texage_30 (A3), Tiffany_32 (A3), TinyPebbles_32 (A3), Todacoro_31 (A3), Vix_32 (A3), Watson_32 (A3), Wooldri_34 (A3), Zarafa_30 (A3), Zetzy_31 (A3),

Start 67:

- Found in 1 of 1003 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona_27 (A19),

Start 68:

- Found in 26 of 1003 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 11.5% of time when present
- Phage (with cluster) where this start called: FlyCatcher_33 (A7), Sheen_31 (A7), Toro_32 (A7),

Start 70:

- Found in 22 of 1003 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: phiCAM_27 (BD3),

Start 74:

- Found in 19 of 1003 (1.9%) of genes in pham
- Manual Annotations of this start: 17 of 870
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Anselm_30 (A2), BobSwaget_33 (A2), Crucio_30 (A2), Dalmatian_30 (A2), DudeLittle_30 (A2), Fameo_30 (A2), FiringLine_30 (A2), Heffalump_32 (A2), Lokk_33 (A2), Miko_33 (A2), QueenB2_30

(A2), QueenBeesly_30 (A2), Rachaly_33 (A2), Retro23_30 (A2), SemperFi_32 (A2), SnapTap_30 (A2), SweetiePie_30 (A2),

Start 75:

- Found in 40 of 1003 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 2.5% of time when present
- Phage (with cluster) where this start called: Paedore_25 (BD2),

Start 76:

- Found in 2 of 1003 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HippoHollow_31 (A2), LionsBait_31 (A2),

Start 78:

- Found in 283 of 1003 (28.2%) of genes in pham
- Manual Annotations of this start: 12 of 870
- Called 4.9% of time when present
- Phage (with cluster) where this start called: Aragog_27 (A5), Coog_27 (A5), Cuco_27 (A5), Florence1_27 (A5), George_26 (A5), Hydra_27 (BD1), LittleCherry_27 (A5), MarysWell_26 (A5), Midas2_27 (A5), Naca_27 (A5), Prinashe11_28 (A5), Swirley_27 (A5), Thestral_26 (BD2), Tiger_27 (A5),

Start 80:

- Found in 115 of 1003 (11.5%) of genes in pham
- No Manual Annotations of this start.
- Called 1.7% of time when present
- Phage (with cluster) where this start called: Florence4_28 (A5), Twigg_27 (A5),

Start 84:

- Found in 54 of 1003 (5.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.7% of time when present
- Phage (with cluster) where this start called: EdogawaKiddo_30 (A9), Sachima_30 (A9),

Start 86:

- Found in 34 of 1003 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 870
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Kalpine_33 (A2), WeiHuaDA_36 (A2),

Start 91:

- Found in 104 of 1003 (10.4%) of genes in pham
- Manual Annotations of this start: 4 of 870
- Called 3.8% of time when present
- Phage (with cluster) where this start called: ELB20_24 (BD2), Lannister_27 (BD1), Loofah_26 (BD2), Oliynyk_26 (BD1),

Summary by clusters:

There are 43 clusters represented in this pham: singleton, AJ, A21, A15, A14, A17, A16, A11, A13, A12, I1, A19, A18, BD4, A3, BD6, BD1, BD3, A6, A9, A5, A2, P2, P3, P1, P6, A7, F, J, none, N, A8, X, UNK, A20, F1, A22, F3, F4, F5, F7, BD2, F2,

Info for manual annotations of cluster A11:

- Start number 53 was manually annotated 21 times for cluster A11.
- Start number 55 was manually annotated 3 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 54 was manually annotated 1 time for cluster A12.
- Start number 55 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 55 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 55 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 55 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 54 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 67 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 53 was manually annotated 8 times for cluster A2.
- Start number 54 was manually annotated 14 times for cluster A2.
- Start number 55 was manually annotated 16 times for cluster A2.
- Start number 56 was manually annotated 2 times for cluster A2.
- Start number 58 was manually annotated 25 times for cluster A2.
- Start number 74 was manually annotated 17 times for cluster A2.
- Start number 86 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A22:

- Start number 55 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:

- Start number 49 was manually annotated 3 times for cluster A3.
- Start number 66 was manually annotated 113 times for cluster A3.

Info for manual annotations of cluster A5:

- Start number 39 was manually annotated 2 times for cluster A5.
- Start number 65 was manually annotated 26 times for cluster A5.
- Start number 78 was manually annotated 10 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 55 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 58 was manually annotated 1 time for cluster A7.
- Start number 68 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

- Start number 65 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 55 was manually annotated 10 times for cluster A9.
- Start number 56 was manually annotated 24 times for cluster A9.
- Start number 57 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster BD1:

- Start number 60 was manually annotated 17 times for cluster BD1.
- Start number 63 was manually annotated 35 times for cluster BD1.
- Start number 78 was manually annotated 1 time for cluster BD1.
- Start number 91 was manually annotated 2 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 62 was manually annotated 26 times for cluster BD2.
- Start number 63 was manually annotated 2 times for cluster BD2.
- Start number 64 was manually annotated 1 time for cluster BD2.
- Start number 75 was manually annotated 1 time for cluster BD2.
- Start number 78 was manually annotated 1 time for cluster BD2.
- Start number 91 was manually annotated 2 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 61 was manually annotated 1 time for cluster BD3.
- Start number 63 was manually annotated 11 times for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 62 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 63 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster F1:

- Start number 45 was manually annotated 209 times for cluster F1.
- Start number 46 was manually annotated 16 times for cluster F1.
- Start number 50 was manually annotated 1 time for cluster F1.
- Start number 54 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 45 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F3:

- Start number 43 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 45 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:

- Start number 45 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:

- Start number 45 was manually annotated 4 times for cluster I1.
- Start number 46 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 52 was manually annotated 40 times for cluster J.

Info for manual annotations of cluster N:

- Start number 42 was manually annotated 10 times for cluster N.
- Start number 43 was manually annotated 32 times for cluster N.
- Start number 45 was manually annotated 4 times for cluster N.

Info for manual annotations of cluster P1:

- Start number 42 was manually annotated 1 time for cluster P1.
- Start number 45 was manually annotated 42 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 42 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 45 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P6:

- Start number 43 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster X:

- Start number 54 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 20ES_30 Start: 22455, Stop: 22796, Start Num: 54

Candidate Starts for 20ES_30:

(32, 22299), (Start: 54 @22455 has 19 MA's), (82, 22527), (94, 22545), (138, 22674),

Gene: 40AC_33 Start: 24651, Stop: 24977, Start Num: 58

Candidate Starts for 40AC_33:

(31, 24492), (Start: 58 @24651 has 27 MA's), (Start: 78 @24678 has 12 MA's), (80, 24684), (88, 24699), (105, 24738), (106, 24741), (108, 24744), (137, 24852), (160, 24954),

Gene: ACFishhook_32 Start: 23128, Stop: 23430, Start Num: 66

Candidate Starts for ACFishhook_32:

(Start: 49 @23083 has 3 MA's), (Start: 66 @23128 has 113 MA's), (116, 23236),

Gene: AN3_30 Start: 22452, Stop: 22718, Start Num: 53
Candidate Starts for AN3_30:
(31, 22296), (Start: 53 @22452 has 29 MA's), (Start: 86 @22497 has 1 MA's), (89, 22506), (95, 22521),

Gene: AN9_33 Start: 22440, Stop: 22706, Start Num: 53
Candidate Starts for AN9_33:
(31, 22284), (Start: 53 @22440 has 29 MA's), (Start: 86 @22485 has 1 MA's), (89, 22494), (95, 22509),

Gene: ANI8_33 Start: 22440, Stop: 22706, Start Num: 53
Candidate Starts for ANI8_33:
(31, 22284), (Start: 53 @22440 has 29 MA's), (Start: 86 @22485 has 1 MA's), (89, 22494), (95, 22509),

Gene: Aaronocolus_25 Start: 20591, Stop: 20944, Start Num: 63
Candidate Starts for Aaronocolus_25:
(Start: 63 @20591 has 52 MA's), (Start: 78 @20627 has 12 MA's), (Start: 91 @20660 has 4 MA's),
(136, 20810), (138, 20819), (140, 20828), (154, 20873),

Gene: AbbyPaige_32 Start: 22929, Stop: 23267, Start Num: 55
Candidate Starts for AbbyPaige_32:
(31, 22770), (Start: 55 @22929 has 109 MA's), (Start: 78 @22965 has 12 MA's), (80, 22971), (102,
23016), (105, 23025), (138, 23139), (142, 23154), (160, 23238),

Gene: Acolyte_30 Start: 22997, Stop: 23335, Start Num: 54
Candidate Starts for Acolyte_30:
(Start: 54 @22997 has 19 MA's), (77, 23057), (Start: 86 @23078 has 1 MA's), (94, 23087), (100,
23096), (107, 23111), (159, 23309),

Gene: Adzzy_31 Start: 21176, Stop: 21445, Start Num: 53
Candidate Starts for Adzzy_31:
(Start: 53 @21176 has 29 MA's), (83, 21215), (Start: 86 @21221 has 1 MA's), (102, 21257),

Gene: Agape74_32 Start: 22905, Stop: 23243, Start Num: 55
Candidate Starts for Agape74_32:
(31, 22746), (Start: 55 @22905 has 109 MA's), (Start: 78 @22941 has 12 MA's), (80, 22947), (102,
22992), (105, 23001), (138, 23115), (142, 23130), (160, 23214),

Gene: AgentM_27 Start: 22303, Stop: 22623, Start Num: 65
Candidate Starts for AgentM_27:
(Start: 39 @22213 has 2 MA's), (Start: 65 @22303 has 36 MA's), (Start: 78 @22333 has 12 MA's), (80,
22339), (105, 22393), (126, 22465), (137, 22495), (138, 22498), (147, 22519), (154, 22552), (161,
22600), (170, 22615),

Gene: Aggie_30 Start: 24741, Stop: 25109, Start Num: 43
Candidate Starts for Aggie_30:
(Start: 43 @24741 has 34 MA's), (85, 24834), (93, 24852), (122, 24939), (126, 24960),

Gene: Aglet_32 Start: 22964, Stop: 23266, Start Num: 66
Candidate Starts for Aglet_32:
(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has
12 MA's),

Gene: AgronaGT15_32 Start: 22871, Stop: 23173, Start Num: 66
Candidate Starts for AgronaGT15_32:

(48, 22823), (Start: 49 @22826 has 3 MA's), (Start: 66 @22871 has 113 MA's), (Start: 78 @22901 has 12 MA's),

Gene: Airmid_27 Start: 21544, Stop: 21864, Start Num: 65

Candidate Starts for Airmid_27:

(Start: 39 @21454 has 2 MA's), (Start: 65 @21544 has 36 MA's), (Start: 78 @21574 has 12 MA's), (80, 21580), (126, 21706), (138, 21739), (147, 21760), (154, 21793), (170, 21856),

Gene: Akhila_27 Start: 24837, Stop: 25211, Start Num: 45

Candidate Starts for Akhila_27:

(15, 24318), (Start: 45 @24837 has 263 MA's), (Start: 50 @24852 has 1 MA's), (Start: 54 @24864 has 19 MA's), (126, 25071), (138, 25104),

Gene: Alexphander_36 Start: 29528, Stop: 29902, Start Num: 45

Candidate Starts for Alexphander_36:

(Start: 45 @29528 has 263 MA's), (47, 29534), (Start: 50 @29543 has 1 MA's), (Start: 54 @29555 has 19 MA's), (126, 29762), (138, 29795), (153, 29837),

Gene: Aliter_32 Start: 23936, Stop: 24304, Start Num: 56

Candidate Starts for Aliter_32:

(40, 23876), (Start: 56 @23936 has 26 MA's), (79, 23972), (84, 23978), (92, 23999), (102, 24017), (105, 24026), (130, 24125), (133, 24137), (136, 24158), (138, 24167),

Gene: Alma_32 Start: 24051, Stop: 24419, Start Num: 56

Candidate Starts for Alma_32:

(40, 23991), (Start: 56 @24051 has 26 MA's), (79, 24087), (84, 24093), (102, 24132), (105, 24141), (130, 24240), (133, 24252), (138, 24282), (141, 24294), (153, 24324),

Gene: Aloeri_35 Start: 29381, Stop: 29755, Start Num: 45

Candidate Starts for Aloeri_35:

(Start: 45 @29381 has 263 MA's), (Start: 50 @29396 has 1 MA's), (Start: 54 @29408 has 19 MA's), (126, 29615), (138, 29648),

Gene: AlpineSix_34 Start: 28978, Stop: 29349, Start Num: 46

Candidate Starts for AlpineSix_34:

(Start: 45 @28975 has 263 MA's), (Start: 46 @28978 has 18 MA's), (Start: 50 @28990 has 1 MA's), (Start: 54 @29002 has 19 MA's), (126, 29209), (137, 29239), (138, 29242), (153, 29284),

Gene: Alsaber_27 Start: 22278, Stop: 22622, Start Num: 63

Candidate Starts for Alsaber_27:

(Start: 63 @22278 has 52 MA's), (Start: 78 @22302 has 12 MA's), (Start: 91 @22335 has 4 MA's), (98, 22350), (100, 22353), (104, 22362), (114, 22395), (128, 22464), (158, 22578),

Gene: Alvy_27 Start: 21377, Stop: 21730, Start Num: 62

Candidate Starts for Alvy_27:

(24, 21017), (Start: 62 @21377 has 29 MA's), (70, 21392), (Start: 75 @21404 has 1 MA's), (Start: 78 @21410 has 12 MA's), (94, 21449), (131, 21584), (143, 21620), (158, 21686), (164, 21710),

Gene: Amela_26 Start: 22973, Stop: 23320, Start Num: 63

Candidate Starts for Amela_26:

(Start: 63 @22973 has 52 MA's), (Start: 75 @22991 has 1 MA's), (Start: 78 @22997 has 12 MA's), (Start: 91 @23030 has 4 MA's), (98, 23045), (104, 23057), (114, 23090), (128, 23159), (158, 23273),

Gene: Amethyst_25 Start: 21208, Stop: 21561, Start Num: 62

Candidate Starts for Amethyst_25:

(Start: 62 @21208 has 29 MA's), (Start: 66 @21217 has 113 MA's), (70, 21223), (Start: 75 @21235 has 1 MA's), (Start: 78 @21241 has 12 MA's), (82, 21250), (89, 21268), (100, 21292), (114, 21334), (131, 21415), (158, 21517), (164, 21541),

Gene: Anaysia_32 Start: 21408, Stop: 21749, Start Num: 55

Candidate Starts for Anaysia_32:

(Start: 55 @21408 has 109 MA's), (90, 21474), (95, 21486), (157, 21696), (167, 21732), (172, 21738),

Gene: Andies_27 Start: 23908, Stop: 24288, Start Num: 43

Candidate Starts for Andies_27:

(Start: 43 @23908 has 34 MA's), (122, 24118), (126, 24139),

Gene: Andris_25 Start: 21074, Stop: 21427, Start Num: 62

Candidate Starts for Andris_25:

(Start: 62 @21074 has 29 MA's), (Start: 75 @21101 has 1 MA's), (Start: 78 @21107 has 12 MA's), (89, 21134), (105, 21170), (130, 21278), (158, 21383), (164, 21407),

Gene: Aneem_30 Start: 23073, Stop: 23396, Start Num: 53

Candidate Starts for Aneem_30:

(Start: 53 @23073 has 29 MA's), (59, 23082), (95, 23142), (102, 23154), (121, 23196), (133, 23253),

Gene: Animus_26 Start: 21413, Stop: 21766, Start Num: 62

Candidate Starts for Animus_26:

(Start: 62 @21413 has 29 MA's), (70, 21428), (Start: 75 @21440 has 1 MA's), (82, 21455), (Start: 91 @21479 has 4 MA's), (98, 21494), (121, 21551), (131, 21599),

Gene: Anon_30 Start: 21972, Stop: 22313, Start Num: 55

Candidate Starts for Anon_30:

(Start: 55 @21972 has 109 MA's), (90, 22038), (110, 22083), (157, 22260), (167, 22296), (172, 22302),

Gene: Anselm_30 Start: 22585, Stop: 22872, Start Num: 74

Candidate Starts for Anselm_30:

(37, 22426), (Start: 74 @22585 has 17 MA's), (138, 22750), (147, 22771), (160, 22849),

Gene: Anubis_34 Start: 22849, Stop: 23151, Start Num: 66

Candidate Starts for Anubis_34:

(48, 22801), (Start: 49 @22804 has 3 MA's), (Start: 66 @22849 has 113 MA's), (Start: 78 @22879 has 12 MA's),

Gene: Aragog_27 Start: 22363, Stop: 22653, Start Num: 78

Candidate Starts for Aragog_27:

(Start: 39 @22243 has 2 MA's), (Start: 65 @22333 has 36 MA's), (Start: 78 @22363 has 12 MA's), (80, 22369), (105, 22423), (126, 22495), (137, 22525), (138, 22528), (147, 22549), (154, 22582), (161, 22630), (170, 22645),

Gene: Archetta_27 Start: 22126, Stop: 22446, Start Num: 65

Candidate Starts for Archetta_27:

(Start: 39 @22036 has 2 MA's), (Start: 65 @22126 has 36 MA's), (Start: 78 @22156 has 12 MA's), (80, 22162), (126, 22288), (138, 22321), (147, 22342), (154, 22375), (159, 22414), (170, 22438),

Gene: ArcusAngelus_33 Start: 29310, Stop: 29684, Start Num: 45

Candidate Starts for ArcusAngelus_33:

(Start: 45 @29310 has 263 MA's), (Start: 46 @29313 has 18 MA's), (Start: 50 @29325 has 1 MA's),
(Start: 54 @29337 has 19 MA's), (77, 29397), (126, 29544), (138, 29577), (153, 29619),

Gene: Ardmore_32 Start: 28754, Stop: 29128, Start Num: 45

Candidate Starts for Ardmore_32:

(Start: 45 @28754 has 263 MA's), (Start: 50 @28769 has 1 MA's), (Start: 54 @28781 has 19 MA's),
(126, 28988), (138, 29021),

Gene: Arib1_29 Start: 25491, Stop: 25850, Start Num: 45

Candidate Starts for Arib1_29:

(Start: 45 @25491 has 263 MA's), (77, 25578), (126, 25716), (138, 25749),

Gene: Ariel_50 Start: 40019, Stop: 40405, Start Num: 52

Candidate Starts for Ariel_50:

(Start: 52 @40019 has 40 MA's), (Start: 68 @40058 has 1 MA's), (72, 40073), (77, 40082), (126,
40229), (131, 40253), (138, 40271), (145, 40301), (147, 40313),

Gene: Arissanae_30 Start: 22064, Stop: 22444, Start Num: 55

Candidate Starts for Arissanae_30:

(41, 22013), (Start: 55 @22064 has 109 MA's), (Start: 63 @22085 has 52 MA's), (79, 22118), (95,
22151), (102, 22163), (105, 22172), (116, 22205), (133, 22283), (153, 22355),

Gene: Artemis2UCLA_33 Start: 22110, Stop: 22406, Start Num: 55

Candidate Starts for Artemis2UCLA_33:

(41, 22059), (Start: 55 @22110 has 109 MA's), (126, 22263), (141, 22308),

Gene: Asten_24 Start: 20696, Stop: 21052, Start Num: 60

Candidate Starts for Asten_24:

(Start: 60 @20696 has 17 MA's), (Start: 78 @20735 has 12 MA's), (Start: 91 @20768 has 4 MA's),
(121, 20861), (136, 20918), (138, 20927), (171, 21044),

Gene: Astro_27 Start: 21234, Stop: 21515, Start Num: 65

Candidate Starts for Astro_27:

(51, 21201), (Start: 65 @21234 has 36 MA's), (Start: 78 @21261 has 12 MA's), (80, 21267), (90,
21291), (157, 21468), (159, 21483), (163, 21495), (168, 21504),

Gene: Atcoo_29 Start: 25974, Stop: 26333, Start Num: 45

Candidate Starts for Atcoo_29:

(Start: 45 @25974 has 263 MA's), (77, 26061), (126, 26199), (138, 26232),

Gene: Aubs_34 Start: 29089, Stop: 29463, Start Num: 45

Candidate Starts for Aubs_34:

(Start: 45 @29089 has 263 MA's), (Start: 50 @29104 has 1 MA's), (Start: 54 @29116 has 19 MA's),
(126, 29323), (138, 29356), (153, 29398),

Gene: AugsMagnumOpus_34 Start: 22955, Stop: 23257, Start Num: 66

Candidate Starts for AugsMagnumOpus_34:

(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has
12 MA's),

Gene: Awesomesauce_34 Start: 28643, Stop: 29017, Start Num: 45

Candidate Starts for Awesomesauce_34:

(Start: 45 @28643 has 263 MA's), (Start: 50 @28658 has 1 MA's), (Start: 54 @28670 has 19 MA's), (77, 28730), (126, 28877), (138, 28910),

Gene: Axiom_26 Start: 21249, Stop: 21602, Start Num: 62

Candidate Starts for Axiom_26:

(Start: 62 @21249 has 29 MA's), (Start: 75 @21276 has 1 MA's), (Start: 78 @21282 has 12 MA's), (121, 21408), (130, 21453), (164, 21582),

Gene: Ayanochan_33 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Ayanochan_33:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (138, 24272), (141, 24284), (153, 24314),

Gene: B1_28 Start: 22213, Stop: 22515, Start Num: 66

Candidate Starts for B1_28:

(38, 22114), (Start: 49 @22171 has 3 MA's), (Start: 66 @22213 has 113 MA's), (116, 22321), (130, 22387), (138, 22399),

Gene: BABullseye_33 Start: 22286, Stop: 22582, Start Num: 55

Candidate Starts for BABullseye_33:

(Start: 55 @22286 has 109 MA's), (87, 22340), (126, 22439), (141, 22484),

Gene: BAKA_55 Start: 43842, Stop: 44237, Start Num: 52

Candidate Starts for BAKA_55:

(Start: 52 @43842 has 40 MA's), (69, 43884), (72, 43896), (117, 44007), (126, 44052), (138, 44094), (146, 44127), (147, 44136),

Gene: BabeRuth_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for BabeRuth_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: Babsiella_29 Start: 25555, Stop: 25917, Start Num: 45

Candidate Starts for Babsiella_29:

(Start: 45 @25555 has 263 MA's), (Start: 46 @25558 has 18 MA's), (121, 25756), (122, 25759), (126, 25780), (138, 25813),

Gene: BabyBack_32 Start: 24024, Stop: 24350, Start Num: 58

Candidate Starts for BabyBack_32:

(Start: 58 @24024 has 27 MA's), (Start: 78 @24051 has 12 MA's), (80, 24057), (88, 24072), (106, 24114), (108, 24117), (138, 24228), (160, 24327),

Gene: BabyJohn_29 Start: 22795, Stop: 23097, Start Num: 66

Candidate Starts for BabyJohn_29:

(Start: 49 @22753 has 3 MA's), (Start: 66 @22795 has 113 MA's), (80, 22831), (138, 22981),

Gene: BabyRay_30 Start: 22773, Stop: 23075, Start Num: 66

Candidate Starts for BabyRay_30:

(Start: 49 @22731 has 3 MA's), (Start: 66 @22773 has 113 MA's), (116, 22881),

Gene: Bachome_30 Start: 23064, Stop: 23387, Start Num: 53

Candidate Starts for Bachome_30:

(Start: 53 @23064 has 29 MA's), (59, 23073), (95, 23133), (102, 23145), (121, 23187), (133, 23244),

Gene: Baehexic_31 Start: 22907, Stop: 23236, Start Num: 58

Candidate Starts for Baehexic_31:

(31, 22748), (Start: 58 @22907 has 27 MA's), (Start: 78 @22934 has 12 MA's), (80, 22940), (105, 22994), (120, 23039), (160, 23207),

Gene: Bagrid_50 Start: 43175, Stop: 43570, Start Num: 52

Candidate Starts for Bagrid_50:

(Start: 52 @43175 has 40 MA's), (69, 43217), (72, 43229), (117, 43340), (126, 43385), (138, 43427), (146, 43460), (147, 43469),

Gene: BarryBee_26 Start: 20706, Stop: 21062, Start Num: 60

Candidate Starts for BarryBee_26:

(Start: 60 @20706 has 17 MA's), (Start: 78 @20745 has 12 MA's), (Start: 91 @20778 has 4 MA's), (121, 20871), (136, 20928), (138, 20937), (171, 21054),

Gene: Bartholomew_28 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Bartholomew_28:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: BartholomewSD_27 Start: 21377, Stop: 21730, Start Num: 62

Candidate Starts for BartholomewSD_27:

(24, 21017), (Start: 62 @21377 has 29 MA's), (70, 21392), (Start: 75 @21404 has 1 MA's), (Start: 78 @21410 has 12 MA's), (94, 21449), (131, 21584), (143, 21620), (158, 21686), (164, 21710),

Gene: Batiatus_33 Start: 28747, Stop: 29121, Start Num: 45

Candidate Starts for Batiatus_33:

(Start: 45 @28747 has 263 MA's), (Start: 50 @28762 has 1 MA's), (Start: 54 @28774 has 19 MA's), (126, 28981), (138, 29014),

Gene: Battleship_33 Start: 21520, Stop: 21861, Start Num: 55

Candidate Starts for Battleship_33:

(Start: 55 @21520 has 109 MA's), (90, 21586), (95, 21598), (157, 21808), (167, 21844), (172, 21850),

Gene: Beakin_34 Start: 28661, Stop: 29035, Start Num: 45

Candidate Starts for Beakin_34:

(Start: 45 @28661 has 263 MA's), (Start: 46 @28664 has 18 MA's), (Start: 50 @28676 has 1 MA's), (Start: 54 @28688 has 19 MA's), (77, 28748), (122, 28874), (126, 28895), (138, 28928), (153, 28970),

Gene: Beanstalk_38 Start: 28952, Stop: 29326, Start Num: 45

Candidate Starts for Beanstalk_38:

(Start: 45 @28952 has 263 MA's), (Start: 50 @28967 has 1 MA's), (Start: 54 @28979 has 19 MA's), (126, 29186), (138, 29219),

Gene: BeardedLady_26 Start: 20844, Stop: 21197, Start Num: 63

Candidate Starts for BeardedLady_26:

(26, 20478), (Start: 63 @20844 has 52 MA's), (Start: 75 @20874 has 1 MA's), (Start: 78 @20880 has 12 MA's), (Start: 91 @20913 has 4 MA's), (136, 21063), (138, 21072), (140, 21081), (154, 21126),

Gene: Beauxregard13_32 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for Beauxregard13_32:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: Beem_51 Start: 43741, Stop: 44136, Start Num: 52

Candidate Starts for Beem_51:

(Start: 52 @43741 has 40 MA's), (69, 43783), (72, 43795), (117, 43906), (126, 43951), (138, 43993), (146, 44026), (147, 44035),

Gene: Beemo_32 Start: 24042, Stop: 24410, Start Num: 56

Candidate Starts for Beemo_32:

(40, 23982), (Start: 56 @24042 has 26 MA's), (79, 24078), (84, 24084), (92, 24105), (102, 24123), (105, 24132), (130, 24231), (133, 24243), (136, 24264), (138, 24273),

Gene: Bellris_28 Start: 21862, Stop: 22227, Start Num: 55

Candidate Starts for Bellris_28:

(41, 21811), (Start: 55 @21862 has 109 MA's), (92, 21925), (95, 21931), (97, 21934), (131, 22054), (136, 22084), (138, 22093), (141, 22105),

Gene: Benedict_27 Start: 21547, Stop: 21867, Start Num: 65

Candidate Starts for Benedict_27:

(Start: 39 @21457 has 2 MA's), (Start: 65 @21547 has 36 MA's), (Start: 78 @21577 has 12 MA's), (80, 21583), (126, 21709), (138, 21742), (147, 21763), (154, 21796), (159, 21835), (170, 21859),

Gene: BengiVuitton_31 Start: 22849, Stop: 23190, Start Num: 54

Candidate Starts for BengiVuitton_31:

(Start: 54 @22849 has 19 MA's), (77, 22909), (82, 22921), (94, 22939), (138, 23068),

Gene: BennyP_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for BennyP_33:

(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: Benvolio_30 Start: 22524, Stop: 22853, Start Num: 58

Candidate Starts for Benvolio_30:

(31, 22365), (Start: 58 @22524 has 27 MA's), (Start: 78 @22551 has 12 MA's), (80, 22557), (102, 22602), (105, 22611), (138, 22725), (142, 22740), (160, 22824),

Gene: Bhagsy_29 Start: 25483, Stop: 25842, Start Num: 45

Candidate Starts for Bhagsy_29:

(30, 25339), (Start: 45 @25483 has 263 MA's), (126, 25708), (138, 25741),

Gene: BiancaTri92_32 Start: 24210, Stop: 24560, Start Num: 54

Candidate Starts for BiancaTri92_32:

(32, 24051), (Start: 54 @24210 has 19 MA's), (82, 24282), (87, 24294), (137, 24426), (153, 24471),

Gene: BigPhil_29 Start: 24971, Stop: 25345, Start Num: 45

Candidate Starts for BigPhil_29:

(Start: 45 @24971 has 263 MA's), (47, 24977), (Start: 50 @24986 has 1 MA's), (Start: 54 @24998 has 19 MA's), (126, 25205), (138, 25238),

Gene: Bigflo_32 Start: 22962, Stop: 23264, Start Num: 66

Candidate Starts for Bigflo_32:

(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has 12 MA's),

Gene: Bipolar_30 Start: 27833, Stop: 28207, Start Num: 45

Candidate Starts for Bipolar_30:

(Start: 45 @27833 has 263 MA's), (47, 27839), (Start: 50 @27848 has 1 MA's), (Start: 54 @27860 has 19 MA's), (126, 28067), (138, 28100),

Gene: Blarby_42 Start: 29226, Stop: 29600, Start Num: 45

Candidate Starts for Blarby_42:

(Start: 45 @29226 has 263 MA's), (Start: 50 @29241 has 1 MA's), (Start: 54 @29253 has 19 MA's), (126, 29460), (138, 29493),

Gene: BlessJoy_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for BlessJoy_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: Blexus_33 Start: 29083, Stop: 29457, Start Num: 45

Candidate Starts for Blexus_33:

(33, 28963), (Start: 45 @29083 has 263 MA's), (Start: 50 @29098 has 1 MA's), (Start: 54 @29110 has 19 MA's), (126, 29317), (138, 29350),

Gene: Blinn1_33 Start: 22279, Stop: 22575, Start Num: 55

Candidate Starts for Blinn1_33:

(Start: 55 @22279 has 109 MA's), (84, 22327), (87, 22333), (126, 22432), (141, 22477),

Gene: Blue7_33 Start: 22200, Stop: 22496, Start Num: 55

Candidate Starts for Blue7_33:

(41, 22149), (Start: 55 @22200 has 109 MA's), (84, 22248), (126, 22353), (141, 22398),

Gene: BlueBird_31 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for BlueBird_31:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has 12 MA's), (83, 22563),

Gene: BlueCrab_33 Start: 28933, Stop: 29307, Start Num: 45

Candidate Starts for BlueCrab_33:

(Start: 45 @28933 has 263 MA's), (Start: 50 @28948 has 1 MA's), (Start: 54 @28960 has 19 MA's), (126, 29167), (138, 29200), (153, 29242),

Gene: Bluefalcon_26 Start: 22383, Stop: 22703, Start Num: 65

Candidate Starts for Bluefalcon_26:

(Start: 39 @22293 has 2 MA's), (Start: 65 @22383 has 36 MA's), (Start: 78 @22413 has 12 MA's), (80, 22419), (121, 22521), (126, 22545), (130, 22566), (138, 22578), (147, 22599), (154, 22632), (170, 22695),

Gene: Bluvara_30 Start: 25885, Stop: 26265, Start Num: 45

Candidate Starts for Bluvara_30:

(Start: 45 @25885 has 263 MA's), (Start: 46 @25888 has 18 MA's), (96, 26008), (121, 26086), (122, 26089),

Gene: BobSwaget_33 Start: 24051, Stop: 24338, Start Num: 74

Candidate Starts for BobSwaget_33:

(37, 23892), (Start: 74 @24051 has 17 MA's), (138, 24216), (147, 24237), (160, 24315),

Gene: BobaPhett_33 Start: 28968, Stop: 29327, Start Num: 50

Candidate Starts for BobaPhett_33:

(Start: 45 @28953 has 263 MA's), (Start: 46 @28956 has 18 MA's), (Start: 50 @28968 has 1 MA's),
(Start: 54 @28980 has 19 MA's), (126, 29187), (138, 29220), (153, 29262),

Gene: Bobby_50 Start: 42341, Stop: 42715, Start Num: 52

Candidate Starts for Bobby_50:

(Start: 52 @42341 has 40 MA's), (69, 42383), (72, 42395), (117, 42506), (126, 42551), (138, 42593),
(147, 42635), (149, 42647),

Gene: Bobi_35 Start: 29460, Stop: 29834, Start Num: 45

Candidate Starts for Bobi_35:

(Start: 45 @29460 has 263 MA's), (Start: 50 @29475 has 1 MA's), (Start: 54 @29487 has 19 MA's),
(126, 29694), (138, 29727),

Gene: BodEinwohner17_33 Start: 29153, Stop: 29527, Start Num: 45

Candidate Starts for BodEinwohner17_33:

(33, 29033), (Start: 45 @29153 has 263 MA's), (Start: 50 @29168 has 1 MA's), (Start: 54 @29180 has
19 MA's), (126, 29387), (138, 29420),

Gene: Bogie_31 Start: 27268, Stop: 27627, Start Num: 45

Candidate Starts for Bogie_31:

(28, 27100), (35, 27178), (Start: 45 @27268 has 263 MA's), (Start: 50 @27286 has 1 MA's), (77,
27355), (121, 27469), (126, 27493), (138, 27526),

Gene: BogosyJay_31 Start: 23567, Stop: 23932, Start Num: 55

Candidate Starts for BogosyJay_31:

(31, 23408), (Start: 55 @23567 has 109 MA's), (79, 23603), (84, 23609), (95, 23636), (102, 23648),
(130, 23756), (133, 23768), (154, 23852),

Gene: Bombitas_48 Start: 43335, Stop: 43730, Start Num: 52

Candidate Starts for Bombitas_48:

(Start: 52 @43335 has 40 MA's), (69, 43377), (72, 43389), (117, 43500), (126, 43545), (138, 43587),
(146, 43620), (147, 43629), (149, 43641),

Gene: Bonamassa_27 Start: 22134, Stop: 22544, Start Num: 39

Candidate Starts for Bonamassa_27:

(Start: 39 @22134 has 2 MA's), (Start: 65 @22224 has 36 MA's), (Start: 78 @22254 has 12 MA's), (80,
22260), (121, 22362), (126, 22386), (130, 22407), (138, 22419), (147, 22440), (154, 22473), (161,
22521), (170, 22536),

Gene: Boohoo_32 Start: 21408, Stop: 21749, Start Num: 55

Candidate Starts for Boohoo_32:

(Start: 55 @21408 has 109 MA's), (90, 21474), (95, 21486), (157, 21696), (167, 21732), (172, 21738),

Gene: Boomer_35 Start: 28823, Stop: 29197, Start Num: 45

Candidate Starts for Boomer_35:

(Start: 45 @28823 has 263 MA's), (Start: 50 @28838 has 1 MA's), (Start: 54 @28850 has 19 MA's),
(94, 28952), (99, 28961), (126, 29057), (138, 29090),

Gene: Bosection6_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for Bosection6_30:

(Start: 43 @24740 has 34 MA's), (85, 24833), (93, 24851), (122, 24938), (126, 24959),

Gene: Bovely_25 Start: 20597, Stop: 20950, Start Num: 63

Candidate Starts for Bovely_25:

(Start: 63 @20597 has 52 MA's), (Start: 75 @20627 has 1 MA's), (Start: 78 @20633 has 12 MA's),
(Start: 91 @20666 has 4 MA's), (136, 20816), (138, 20825), (140, 20834), (154, 20879),

Gene: Bowden_26 Start: 21309, Stop: 21662, Start Num: 62

Candidate Starts for Bowden_26:

(Start: 62 @21309 has 29 MA's), (70, 21324), (Start: 75 @21336 has 1 MA's), (Start: 78 @21342 has
12 MA's), (131, 21516), (143, 21552), (158, 21618), (164, 21642),

Gene: Bowtie_30 Start: 23076, Stop: 23396, Start Num: 55

Candidate Starts for Bowtie_30:

(Start: 53 @23073 has 29 MA's), (Start: 55 @23076 has 109 MA's), (59, 23082), (95, 23142), (102,
23154), (121, 23196), (133, 23253),

Gene: Bradman_29 Start: 21322, Stop: 21645, Start Num: 58

Candidate Starts for Bradman_29:

(41, 21274), (Start: 58 @21322 has 27 MA's), (Start: 78 @21349 has 12 MA's), (80, 21355), (Start: 86
@21364 has 1 MA's), (119, 21451),

Gene: Brataylor_27 Start: 21715, Stop: 22068, Start Num: 63

Candidate Starts for Brataylor_27:

(Start: 63 @21715 has 52 MA's), (Start: 91 @21787 has 4 MA's), (121, 21880), (130, 21925), (136,
21937), (157, 22024), (173, 22063),

Gene: BreSam8_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for BreSam8_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has
12 MA's),

Gene: BroPlease_26 Start: 20975, Stop: 21328, Start Num: 62

Candidate Starts for BroPlease_26:

(Start: 62 @20975 has 29 MA's), (Start: 75 @21002 has 1 MA's), (89, 21035), (105, 21071), (121,
21134), (130, 21179), (158, 21284), (164, 21308),

Gene: Brocalys_28 Start: 24550, Stop: 24924, Start Num: 45

Candidate Starts for Brocalys_28:

(Start: 45 @24550 has 263 MA's), (Start: 50 @24565 has 1 MA's), (Start: 54 @24577 has 19 MA's),
(77, 24637), (126, 24784), (137, 24814), (138, 24817),

Gene: BronnyJames_43 Start: 37604, Stop: 37990, Start Num: 52

Candidate Starts for BronnyJames_43:

(Start: 52 @37604 has 40 MA's), (Start: 68 @37643 has 1 MA's), (72, 37658), (77, 37667), (126,
37814), (131, 37838), (138, 37856), (145, 37886), (147, 37898),

Gene: BronnyJr_29 Start: 25950, Stop: 26309, Start Num: 45

Candidate Starts for BronnyJr_29:

(Start: 45 @25950 has 263 MA's), (77, 26037), (126, 26175), (138, 26208),

Gene: Brookers_31 Start: 27696, Stop: 28070, Start Num: 45

Candidate Starts for Brookers_31:

(Start: 45 @27696 has 263 MA's), (Start: 50 @27711 has 1 MA's), (Start: 54 @27723 has 19 MA's),
(126, 27930), (138, 27963),

Gene: Brujita_32 Start: 27623, Stop: 27982, Start Num: 45

Candidate Starts for Brujita_32:

(28, 27455), (35, 27533), (Start: 45 @27623 has 263 MA's), (Start: 50 @27641 has 1 MA's), (77, 27710), (121, 27824), (126, 27848), (138, 27881),

Gene: Brusacoram_29 Start: 25480, Stop: 25839, Start Num: 45

Candidate Starts for Brusacoram_29:

(Start: 45 @25480 has 263 MA's), (77, 25567), (126, 25705), (138, 25738),

Gene: Brushbloom_34 Start: 28771, Stop: 29145, Start Num: 45

Candidate Starts for Brushbloom_34:

(Start: 45 @28771 has 263 MA's), (Start: 50 @28786 has 1 MA's), (Start: 54 @28798 has 19 MA's), (126, 29005), (138, 29038),

Gene: BryanRecycles_26 Start: 20960, Stop: 21313, Start Num: 63

Candidate Starts for BryanRecycles_26:

(Start: 63 @20960 has 52 MA's), (Start: 78 @20996 has 12 MA's), (Start: 91 @21029 has 4 MA's), (138, 21188),

Gene: Bubbles123_35 Start: 29738, Stop: 30112, Start Num: 45

Candidate Starts for Bubbles123_35:

(Start: 45 @29738 has 263 MA's), (Start: 50 @29753 has 1 MA's), (Start: 54 @29765 has 19 MA's), (126, 29972), (138, 30005), (153, 30047),

Gene: Bud_30 Start: 23079, Stop: 23402, Start Num: 53

Candidate Starts for Bud_30:

(Start: 53 @23079 has 29 MA's), (59, 23088), (95, 23148), (102, 23160), (121, 23202), (133, 23259),

Gene: Bugatti_30 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for Bugatti_30:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has 12 MA's), (83, 22563),

Gene: Buggy_32 Start: 22928, Stop: 23266, Start Num: 55

Candidate Starts for Buggy_32:

(31, 22769), (Start: 55 @22928 has 109 MA's), (Start: 78 @22964 has 12 MA's), (80, 22970), (102, 23015), (105, 23024), (138, 23138), (142, 23153), (160, 23237),

Gene: Bunnies_29 Start: 25501, Stop: 25860, Start Num: 45

Candidate Starts for Bunnies_29:

(Start: 45 @25501 has 263 MA's), (77, 25588), (126, 25726), (138, 25759),

Gene: Burwell21_33 Start: 28937, Stop: 29311, Start Num: 45

Candidate Starts for Burwell21_33:

(Start: 45 @28937 has 263 MA's), (Start: 50 @28952 has 1 MA's), (Start: 54 @28964 has 19 MA's), (126, 29171), (137, 29201), (138, 29204), (153, 29246),

Gene: Butters_29 Start: 24134, Stop: 24508, Start Num: 45

Candidate Starts for Butters_29:

(28, 23966), (35, 24044), (Start: 45 @24134 has 263 MA's), (90, 24251),

Gene: BuzzBuzz_31 Start: 23047, Stop: 23352, Start Num: 66

Candidate Starts for BuzzBuzz_31:

(48, 22999), (Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (Start: 78 @23077 has 12 MA's), (154, 23287),

Gene: BuzzLyseyear_36 Start: 29552, Stop: 29926, Start Num: 45

Candidate Starts for BuzzLyseyear_36:

(Start: 45 @29552 has 263 MA's), (47, 29558), (Start: 50 @29567 has 1 MA's), (Start: 54 @29579 has 19 MA's), (126, 29786), (138, 29819), (153, 29861),

Gene: Bxz2_31 Start: 23057, Stop: 23359, Start Num: 66

Candidate Starts for Bxz2_31:

(48, 23009), (Start: 49 @23012 has 3 MA's), (Start: 66 @23057 has 113 MA's), (Start: 78 @23087 has 12 MA's),

Gene: Byougenkin_33 Start: 28835, Stop: 29209, Start Num: 45

Candidate Starts for Byougenkin_33:

(Start: 45 @28835 has 263 MA's), (Start: 50 @28850 has 1 MA's), (Start: 54 @28862 has 19 MA's), (126, 29069), (138, 29102),

Gene: C3_28 Start: 22440, Stop: 22706, Start Num: 53

Candidate Starts for C3_28:

(31, 22284), (Start: 53 @22440 has 29 MA's), (Start: 86 @22485 has 1 MA's), (89, 22494), (95, 22509),

Gene: CRB1_30 Start: 22412, Stop: 22753, Start Num: 54

Candidate Starts for CRB1_30:

(32, 22256), (Start: 54 @22412 has 19 MA's), (82, 22484), (94, 22502), (138, 22631),

Gene: Cabrinians_33 Start: 29015, Stop: 29389, Start Num: 45

Candidate Starts for Cabrinians_33:

(Start: 45 @29015 has 263 MA's), (Start: 50 @29030 has 1 MA's), (Start: 54 @29042 has 19 MA's), (126, 29249), (137, 29279), (138, 29282), (153, 29324),

Gene: CactusJack_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for CactusJack_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Caelum_26 Start: 21282, Stop: 21635, Start Num: 62

Candidate Starts for Caelum_26:

(17, 20769), (24, 20922), (Start: 62 @21282 has 29 MA's), (Start: 65 @21288 has 36 MA's), (Start: 66 @21291 has 113 MA's), (Start: 75 @21309 has 1 MA's), (82, 21324), (95, 21357), (114, 21408), (128, 21477), (130, 21486), (158, 21591), (164, 21615),

Gene: Caitlin_26 Start: 21230, Stop: 21511, Start Num: 65

Candidate Starts for Caitlin_26:

(Start: 65 @21230 has 36 MA's), (Start: 78 @21257 has 12 MA's), (80, 21263), (90, 21287), (105, 21317), (157, 21464), (159, 21479), (163, 21491), (168, 21500),

Gene: Caliburn_25 Start: 20574, Stop: 20927, Start Num: 63

Candidate Starts for Caliburn_25:

(Start: 63 @20574 has 52 MA's), (Start: 78 @20610 has 12 MA's), (Start: 91 @20643 has 4 MA's), (136, 20793), (138, 20802), (140, 20811), (154, 20856),

Gene: Calvinny_33 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Calvinny_33:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: Camster_29 Start: 25517, Stop: 25876, Start Num: 45

Candidate Starts for Camster_29:

(Start: 45 @25517 has 263 MA's), (77, 25604), (126, 25742), (138, 25775),

Gene: Candra_33 Start: 22249, Stop: 22545, Start Num: 55

Candidate Starts for Candra_33:

(Start: 55 @22249 has 109 MA's), (87, 22303), (126, 22402), (141, 22447),

Gene: CaptainTrips_34 Start: 29160, Stop: 29534, Start Num: 45

Candidate Starts for CaptainTrips_34:

(Start: 45 @29160 has 263 MA's), (Start: 50 @29175 has 1 MA's), (Start: 54 @29187 has 19 MA's), (115, 29343), (126, 29394), (138, 29427),

Gene: Caraxes_29 Start: 21092, Stop: 21400, Start Num: 55

Candidate Starts for Caraxes_29:

(41, 21041), (Start: 55 @21092 has 109 MA's), (69, 21116), (90, 21170), (Start: 91 @21173 has 4 MA's), (95, 21182), (105, 21203), (148, 21314),

Gene: Carcharodon_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Carcharodon_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: Catalina_33 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for Catalina_33:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Caviar_31 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for Caviar_31:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: Celery_29 Start: 22253, Stop: 22603, Start Num: 63

Candidate Starts for Celery_29:

(13, 21680), (24, 21884), (Start: 63 @22253 has 52 MA's), (70, 22265), (Start: 78 @22283 has 12 MA's), (Start: 91 @22316 has 4 MA's), (98, 22331), (104, 22343), (114, 22376), (121, 22409), (128, 22445),

Gene: Celeste_25 Start: 21167, Stop: 21520, Start Num: 63

Candidate Starts for Celeste_25:

(Start: 63 @21167 has 52 MA's), (Start: 91 @21239 has 4 MA's), (121, 21332), (136, 21389), (157, 21476),

Gene: Celestiallunch_30 Start: 21950, Stop: 22312, Start Num: 55

Candidate Starts for Celestiallunch_30:

(Start: 55 @21950 has 109 MA's), (102, 22031), (130, 22139), (133, 22151), (138, 22181), (141, 22193), (147, 22202),

Gene: Celia_27 Start: 21558, Stop: 21914, Start Num: 63

Candidate Starts for Celia_27:

(1, 20016), (5, 20751), (6, 20820), (7, 20826), (8, 20829), (9, 20844), (23, 21126), (24, 21192), (Start: 63 @21558 has 52 MA's), (Start: 78 @21591 has 12 MA's), (Start: 91 @21624 has 4 MA's), (114, 21684), (121, 21717), (128, 21753), (130, 21762), (169, 21900),

Gene: Centaur_32 Start: 22885, Stop: 23214, Start Num: 58

Candidate Starts for Centaur_32:

(31, 22726), (Start: 58 @22885 has 27 MA's), (Start: 78 @22912 has 12 MA's), (80, 22918), (105, 22972), (138, 23086), (142, 23101), (160, 23185),

Gene: Cerasum_29 Start: 24971, Stop: 25345, Start Num: 45

Candidate Starts for Cerasum_29:

(Start: 45 @24971 has 263 MA's), (47, 24977), (Start: 50 @24986 has 1 MA's), (Start: 54 @24998 has 19 MA's), (126, 25205), (138, 25238),

Gene: Chadwick_28 Start: 21515, Stop: 21835, Start Num: 65

Candidate Starts for Chadwick_28:

(Start: 39 @21425 has 2 MA's), (Start: 65 @21515 has 36 MA's), (Start: 78 @21545 has 12 MA's), (80, 21551), (126, 21677), (138, 21710), (147, 21731), (154, 21764), (159, 21803), (170, 21827),

Gene: Chargerpower_31 Start: 21744, Stop: 22049, Start Num: 55

Candidate Starts for Chargerpower_31:

(Start: 55 @21744 has 109 MA's),

Gene: Charlie_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for Charlie_30:

(Start: 43 @24740 has 34 MA's), (85, 24833), (93, 24851), (122, 24938), (126, 24959),

Gene: Charm_30 Start: 21952, Stop: 22320, Start Num: 55

Candidate Starts for Charm_30:

(31, 21793), (41, 21901), (Start: 55 @21952 has 109 MA's), (Start: 86 @21997 has 1 MA's), (95, 22021), (102, 22033), (103, 22036), (130, 22141), (133, 22153), (138, 22183), (141, 22195), (147, 22204), (174, 22315),

Gene: Chartreuse_33 Start: 22160, Stop: 22456, Start Num: 55

Candidate Starts for Chartreuse_33:

(Start: 55 @22160 has 109 MA's), (87, 22214), (126, 22313), (141, 22358),

Gene: Che12_32 Start: 21345, Stop: 21671, Start Num: 55

Candidate Starts for Che12_32:

(41, 21294), (Start: 55 @21345 has 109 MA's), (100, 21414), (147, 21558), (153, 21579), (172, 21657),

Gene: Che8_35 Start: 29204, Stop: 29578, Start Num: 45

Candidate Starts for Che8_35:

(Start: 45 @29204 has 263 MA's), (47, 29210), (Start: 50 @29219 has 1 MA's), (Start: 54 @29231 has 19 MA's), (77, 29291), (126, 29438), (138, 29471), (153, 29513),

Gene: Cheesepuff_36 Start: 30026, Stop: 30397, Start Num: 46

Candidate Starts for Cheesepuff_36:

(Start: 45 @30023 has 263 MA's), (Start: 46 @30026 has 18 MA's), (Start: 50 @30038 has 1 MA's), (Start: 54 @30050 has 19 MA's), (126, 30257), (138, 30290),

Gene: Chevrolet_34 Start: 29314, Stop: 29685, Start Num: 46

Candidate Starts for Chevrolet_34:

(Start: 45 @29311 has 263 MA's), (Start: 46 @29314 has 18 MA's), (Start: 50 @29326 has 1 MA's),
(Start: 54 @29338 has 19 MA's), (77, 29398), (126, 29545), (138, 29578), (153, 29620),

Gene: Chewbacca_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Chewbacca_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: ChickenDinner_35 Start: 29381, Stop: 29755, Start Num: 45

Candidate Starts for ChickenDinner_35:

(Start: 45 @29381 has 263 MA's), (Start: 50 @29396 has 1 MA's), (Start: 54 @29408 has 19 MA's),
(126, 29615), (138, 29648),

Gene: ChipMunk_32 Start: 22832, Stop: 23176, Start Num: 54

Candidate Starts for ChipMunk_32:

(32, 22673), (Start: 54 @22832 has 19 MA's), (Start: 60 @22841 has 17 MA's), (Start: 86 @22913 has
1 MA's), (94, 22922), (137, 23048),

Gene: Chiqui_29 Start: 22795, Stop: 23097, Start Num: 66

Candidate Starts for Chiqui_29:

(Start: 49 @22753 has 3 MA's), (Start: 66 @22795 has 113 MA's), (80, 22831), (138, 22981),

Gene: Chubbello_29 Start: 25484, Stop: 25843, Start Num: 45

Candidate Starts for Chubbello_29:

(Start: 45 @25484 has 263 MA's), (77, 25571), (126, 25709), (138, 25742),

Gene: Chuckly_33 Start: 28936, Stop: 29310, Start Num: 45

Candidate Starts for Chuckly_33:

(Start: 45 @28936 has 263 MA's), (Start: 46 @28939 has 18 MA's), (Start: 50 @28951 has 1 MA's),
(Start: 54 @28963 has 19 MA's), (126, 29170), (138, 29203), (153, 29245),

Gene: Chucky_24 Start: 20710, Stop: 21066, Start Num: 60

Candidate Starts for Chucky_24:

(Start: 60 @20710 has 17 MA's), (Start: 78 @20749 has 12 MA's), (Start: 91 @20782 has 4 MA's),
(121, 20875), (136, 20932), (138, 20941), (171, 21058),

Gene: Clammy_30 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for Clammy_30:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has
12 MA's), (83, 22563),

Gene: Clank_31 Start: 28193, Stop: 28567, Start Num: 45

Candidate Starts for Clank_31:

(Start: 45 @28193 has 263 MA's), (Start: 46 @28196 has 18 MA's), (Start: 50 @28208 has 1 MA's),
(Start: 54 @28220 has 19 MA's), (126, 28427), (138, 28460), (153, 28502),

Gene: Clifton_27 Start: 24901, Stop: 25275, Start Num: 45

Candidate Starts for Clifton_27:

(Start: 45 @24901 has 263 MA's), (Start: 50 @24916 has 1 MA's), (Start: 54 @24928 has 19 MA's),
(126, 25135), (137, 25165), (138, 25168), (153, 25210),

Gene: CloudWang3_33 Start: 22210, Stop: 22506, Start Num: 55

Candidate Starts for CloudWang3_33:

(41, 22159), (Start: 55 @22210 has 109 MA's), (84, 22258), (126, 22363), (141, 22408),

Gene: ClownCar_33 Start: 23039, Stop: 23341, Start Num: 66

Candidate Starts for ClownCar_33:

(Start: 49 @22994 has 3 MA's), (Start: 66 @23039 has 113 MA's), (116, 23147),

Gene: Coco12_33 Start: 28820, Stop: 29194, Start Num: 45

Candidate Starts for Coco12_33:

(Start: 45 @28820 has 263 MA's), (Start: 50 @28835 has 1 MA's), (Start: 54 @28847 has 19 MA's), (126, 29054), (138, 29087),

Gene: CogOmlette_28 Start: 21862, Stop: 22227, Start Num: 55

Candidate Starts for CogOmlette_28:

(41, 21811), (Start: 55 @21862 has 109 MA's), (92, 21925), (95, 21931), (97, 21934), (131, 22054), (136, 22084), (138, 22093), (141, 22105),

Gene: Colbster_32 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for Colbster_32:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: Colin_34 Start: 24125, Stop: 24478, Start Num: 55

Candidate Starts for Colin_34:

(31, 23966), (Start: 55 @24125 has 109 MA's), (Start: 86 @24170 has 1 MA's), (102, 24206), (133, 24326), (135, 24332), (136, 24347), (141, 24368), (160, 24455),

Gene: Conan_27 Start: 22175, Stop: 22561, Start Num: 63

Candidate Starts for Conan_27:

(Start: 63 @22175 has 52 MA's), (Start: 78 @22199 has 12 MA's), (Start: 91 @22232 has 4 MA's), (98, 22247), (100, 22250), (104, 22259), (114, 22292), (121, 22325), (128, 22361), (138, 22391), (157, 22469), (158, 22475),

Gene: Conquerage_32 Start: 24038, Stop: 24406, Start Num: 56

Candidate Starts for Conquerage_32:

(40, 23978), (Start: 56 @24038 has 26 MA's), (79, 24074), (84, 24080), (102, 24119), (105, 24128), (130, 24227), (133, 24239), (138, 24269), (141, 24281), (153, 24311),

Gene: Conspiracy_27 Start: 22133, Stop: 22453, Start Num: 65

Candidate Starts for Conspiracy_27:

(Start: 39 @22043 has 2 MA's), (Start: 65 @22133 has 36 MA's), (Start: 78 @22163 has 12 MA's), (80, 22169), (126, 22295), (137, 22325), (138, 22328), (147, 22349), (154, 22382), (161, 22430), (170, 22445),

Gene: Constella_43 Start: 39899, Stop: 40273, Start Num: 52

Candidate Starts for Constella_43:

(Start: 52 @39899 has 40 MA's), (69, 39941), (72, 39953), (117, 40064), (126, 40109), (138, 40151), (146, 40184), (147, 40193), (149, 40205),

Gene: Coog_27 Start: 22303, Stop: 22593, Start Num: 78

Candidate Starts for Coog_27:

(Start: 39 @22183 has 2 MA's), (Start: 65 @22273 has 36 MA's), (Start: 78 @22303 has 12 MA's), (80, 22309), (121, 22411), (126, 22435), (130, 22456), (138, 22468), (147, 22489), (154, 22522), (161, 22570), (170, 22585),

Gene: Cookiedough_33 Start: 22206, Stop: 22502, Start Num: 55
Candidate Starts for Cookiedough_33:
(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: Corium_33 Start: 28960, Stop: 29334, Start Num: 45
Candidate Starts for Corium_33:
(Start: 45 @28960 has 263 MA's), (Start: 50 @28975 has 1 MA's), (Start: 54 @28987 has 19 MA's),
(126, 29194), (138, 29227),

Gene: Cornie_33 Start: 29258, Stop: 29632, Start Num: 45
Candidate Starts for Cornie_33:
(Start: 45 @29258 has 263 MA's), (Start: 50 @29273 has 1 MA's), (Start: 54 @29285 has 19 MA's),
(126, 29492), (138, 29525),

Gene: Cornucopia_34 Start: 28779, Stop: 29153, Start Num: 45
Candidate Starts for Cornucopia_34:
(Start: 45 @28779 has 263 MA's), (Start: 46 @28782 has 18 MA's), (Start: 50 @28794 has 1 MA's),
(Start: 54 @28806 has 19 MA's), (77, 28866), (126, 29013), (137, 29043), (138, 29046), (153, 29088),

Gene: Courthouse_50 Start: 40423, Stop: 40809, Start Num: 52
Candidate Starts for Courthouse_50:
(Start: 52 @40423 has 40 MA's), (Start: 68 @40462 has 1 MA's), (72, 40477), (77, 40486), (126,
40633), (131, 40657), (138, 40675), (145, 40705), (147, 40717),

Gene: Croquant_33 Start: 22961, Stop: 23263, Start Num: 66
Candidate Starts for Croquant_33:
(48, 22913), (Start: 49 @22916 has 3 MA's), (Start: 66 @22961 has 113 MA's), (Start: 78 @22991 has
12 MA's),

Gene: Crucio_30 Start: 22350, Stop: 22637, Start Num: 74
Candidate Starts for Crucio_30:
(37, 22191), (Start: 74 @22350 has 17 MA's), (138, 22515), (147, 22536), (160, 22614),

Gene: Crumble_27 Start: 24953, Stop: 25324, Start Num: 46
Candidate Starts for Crumble_27:
(Start: 45 @24950 has 263 MA's), (Start: 46 @24953 has 18 MA's), (Start: 50 @24965 has 1 MA's),
(Start: 54 @24977 has 19 MA's), (126, 25184), (138, 25217), (153, 25259),

Gene: Cubone_30 Start: 24762, Stop: 25130, Start Num: 43
Candidate Starts for Cubone_30:
(Start: 43 @24762 has 34 MA's), (85, 24855), (122, 24960), (126, 24981),

Gene: Cuco_27 Start: 22253, Stop: 22543, Start Num: 78
Candidate Starts for Cuco_27:
(Start: 39 @22133 has 2 MA's), (Start: 65 @22223 has 36 MA's), (Start: 78 @22253 has 12 MA's), (80,
22259), (121, 22361), (126, 22385), (130, 22406), (138, 22418), (147, 22439), (154, 22472), (161,
22520), (170, 22535),

Gene: Cullens_32 Start: 22962, Stop: 23264, Start Num: 66
Candidate Starts for Cullens_32:
(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has
12 MA's),

Gene: DLane_33 Start: 28724, Stop: 29098, Start Num: 45
Candidate Starts for DLane_33:
(Start: 45 @28724 has 263 MA's), (Start: 50 @28739 has 1 MA's), (Start: 54 @28751 has 19 MA's),
(126, 28958), (138, 28991),

Gene: DRBy19_33 Start: 28862, Stop: 29236, Start Num: 45
Candidate Starts for DRBy19_33:
(Start: 45 @28862 has 263 MA's), (Start: 46 @28865 has 18 MA's), (Start: 50 @28877 has 1 MA's),
(Start: 54 @28889 has 19 MA's), (126, 29096), (138, 29129), (153, 29171),

Gene: DaHudson_32 Start: 22955, Stop: 23257, Start Num: 66
Candidate Starts for DaHudson_32:
(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has
12 MA's),

Gene: DaVinci_33 Start: 22214, Stop: 22510, Start Num: 55
Candidate Starts for DaVinci_33:
(Start: 55 @22214 has 109 MA's), (87, 22268), (126, 22367), (141, 22412),

Gene: DaWorst_35 Start: 29302, Stop: 29676, Start Num: 45
Candidate Starts for DaWorst_35:
(Start: 45 @29302 has 263 MA's), (47, 29308), (Start: 50 @29317 has 1 MA's), (Start: 54 @29329 has
19 MA's), (126, 29536), (138, 29569), (153, 29611),

Gene: DaddyRickover_33 Start: 28945, Stop: 29319, Start Num: 45
Candidate Starts for DaddyRickover_33:
(Start: 45 @28945 has 263 MA's), (47, 28951), (Start: 50 @28960 has 1 MA's), (Start: 54 @28972 has
19 MA's), (126, 29179), (138, 29212), (153, 29254),

Gene: Daenerys_33 Start: 28766, Stop: 29140, Start Num: 45
Candidate Starts for Daenerys_33:
(Start: 45 @28766 has 263 MA's), (47, 28772), (Start: 50 @28781 has 1 MA's), (Start: 54 @28793 has
19 MA's), (126, 29000), (138, 29033), (153, 29075),

Gene: Daishi_31 Start: 21888, Stop: 22193, Start Num: 66
Candidate Starts for Daishi_31:
(48, 21840), (Start: 49 @21843 has 3 MA's), (Start: 66 @21888 has 113 MA's), (Start: 78 @21918 has
12 MA's), (154, 22128),

Gene: Dallas_53 Start: 43296, Stop: 43670, Start Num: 52
Candidate Starts for Dallas_53:
(Start: 52 @43296 has 40 MA's), (Start: 68 @43335 has 1 MA's), (72, 43350), (77, 43359), (126,
43506), (131, 43530), (138, 43548), (145, 43578), (147, 43590),

Gene: Dalmatian_30 Start: 22557, Stop: 22844, Start Num: 74
Candidate Starts for Dalmatian_30:
(37, 22398), (Start: 74 @22557 has 17 MA's), (138, 22722), (147, 22743), (160, 22821),

Gene: Danforth_26 Start: 21212, Stop: 21493, Start Num: 65
Candidate Starts for Danforth_26:
(Start: 65 @21212 has 36 MA's), (Start: 78 @21239 has 12 MA's), (80, 21245), (90, 21269), (157,
21446), (159, 21461), (163, 21473), (168, 21482),

Gene: Dante_33 Start: 28884, Stop: 29258, Start Num: 45
Candidate Starts for Dante_33:
(Start: 45 @28884 has 263 MA's), (Start: 50 @28899 has 1 MA's), (Start: 54 @28911 has 19 MA's),
(126, 29118), (138, 29151), (153, 29193),

Gene: Danzina_26 Start: 21468, Stop: 21821, Start Num: 63
Candidate Starts for Danzina_26:
(Start: 63 @21468 has 52 MA's), (Start: 91 @21540 has 4 MA's), (121, 21633), (136, 21690), (157,
21777),

Gene: Darrell_32 Start: 24002, Stop: 24370, Start Num: 56
Candidate Starts for Darrell_32:
(Start: 56 @24002 has 26 MA's), (79, 24038), (89, 24056), (Start: 91 @24062 has 4 MA's), (95, 24071),
(100, 24080), (102, 24083), (130, 24191), (133, 24203), (136, 24224), (138, 24233), (141, 24245),
(156, 24293),

Gene: DarthPhader_31 Start: 24013, Stop: 24369, Start Num: 55
Candidate Starts for DarthPhader_31:
(31, 23854), (Start: 55 @24013 has 109 MA's), (79, 24049), (102, 24094), (116, 24136), (131, 24205),
(133, 24214), (138, 24244), (141, 24256), (147, 24265), (165, 24349),

Gene: Dattran_26 Start: 21277, Stop: 21630, Start Num: 63
Candidate Starts for Dattran_26:
(Start: 63 @21277 has 52 MA's), (Start: 91 @21349 has 4 MA's), (121, 21442), (130, 21487), (136,
21499), (157, 21586),

Gene: Daudau_25 Start: 21308, Stop: 21661, Start Num: 62
Candidate Starts for Daudau_25:
(Start: 62 @21308 has 29 MA's), (70, 21323), (Start: 75 @21335 has 1 MA's), (Start: 78 @21341 has
12 MA's), (118, 21446), (119, 21452), (130, 21512), (164, 21641),

Gene: DeadP_33 Start: 28921, Stop: 29295, Start Num: 45
Candidate Starts for DeadP_33:
(Start: 45 @28921 has 263 MA's), (Start: 50 @28936 has 1 MA's), (Start: 54 @28948 has 19 MA's),
(126, 29155), (138, 29188), (153, 29230),

Gene: Deb65_33 Start: 28767, Stop: 29141, Start Num: 45
Candidate Starts for Deb65_33:
(Start: 45 @28767 has 263 MA's), (Start: 50 @28782 has 1 MA's), (Start: 54 @28794 has 19 MA's),
(126, 29001), (138, 29034), (153, 29076),

Gene: DekHockey33_32 Start: 21527, Stop: 21868, Start Num: 55
Candidate Starts for DekHockey33_32:
(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: Deloris_31 Start: 22849, Stop: 23190, Start Num: 54
Candidate Starts for Deloris_31:
(Start: 54 @22849 has 19 MA's), (77, 22909), (82, 22921), (94, 22939), (138, 23068),

Gene: DelvinSonDorr_32 Start: 22206, Stop: 22502, Start Num: 55
Candidate Starts for DelvinSonDorr_32:
(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: Dexers_25 Start: 22199, Stop: 22543, Start Num: 63

Candidate Starts for Dexers_25:

(24, 21863), (Start: 63 @22199 has 52 MA's), (Start: 78 @22223 has 12 MA's), (Start: 91 @22256 has 4 MA's), (98, 22271), (100, 22274), (104, 22283), (114, 22316), (128, 22385), (158, 22499),

Gene: Diane_25 Start: 21541, Stop: 21894, Start Num: 62

Candidate Starts for Diane_25:

(Start: 62 @21541 has 29 MA's), (Start: 66 @21550 has 113 MA's), (70, 21556), (Start: 75 @21568 has 1 MA's), (Start: 78 @21574 has 12 MA's), (82, 21583), (89, 21601), (100, 21625), (114, 21667), (131, 21748), (158, 21850), (164, 21874),

Gene: Dieselweasel_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for Dieselweasel_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's),

Gene: Dignity_32 Start: 22873, Stop: 23211, Start Num: 55

Candidate Starts for Dignity_32:

(31, 22714), (Start: 55 @22873 has 109 MA's), (Start: 78 @22909 has 12 MA's), (80, 22915), (102, 22960), (105, 22969), (138, 23083), (142, 23098), (160, 23182),

Gene: DillTech15_33 Start: 28852, Stop: 29226, Start Num: 45

Candidate Starts for DillTech15_33:

(Start: 45 @28852 has 263 MA's), (Start: 46 @28855 has 18 MA's), (Start: 50 @28867 has 1 MA's), (Start: 54 @28879 has 19 MA's), (126, 29086), (138, 29119),

Gene: DirtMcgirt_34 Start: 28587, Stop: 28961, Start Num: 45

Candidate Starts for DirtMcgirt_34:

(Start: 45 @28587 has 263 MA's), (Start: 46 @28590 has 18 MA's), (Start: 50 @28602 has 1 MA's), (Start: 54 @28614 has 19 MA's), (77, 28674), (126, 28821), (138, 28854), (153, 28896),

Gene: Discoknowium_27 Start: 22342, Stop: 22662, Start Num: 65

Candidate Starts for Discoknowium_27:

(Start: 39 @22252 has 2 MA's), (Start: 65 @22342 has 36 MA's), (Start: 78 @22372 has 12 MA's), (80, 22378), (105, 22432), (126, 22504), (137, 22534), (138, 22537), (147, 22558), (154, 22591), (161, 22639), (170, 22654),

Gene: Dixon_27 Start: 21231, Stop: 21512, Start Num: 65

Candidate Starts for Dixon_27:

(Start: 65 @21231 has 36 MA's), (Start: 78 @21258 has 12 MA's), (80, 21264), (90, 21288), (105, 21318), (157, 21465), (159, 21480), (163, 21492), (168, 21501),

Gene: DmpstrDiver_52 Start: 43289, Stop: 43663, Start Num: 52

Candidate Starts for DmpstrDiver_52:

(Start: 52 @43289 has 40 MA's), (69, 43331), (72, 43343), (117, 43454), (126, 43499), (138, 43541), (146, 43574), (147, 43583), (149, 43595),

Gene: DoRead_34 Start: 28999, Stop: 29370, Start Num: 46

Candidate Starts for DoRead_34:

(Start: 45 @28996 has 263 MA's), (Start: 46 @28999 has 18 MA's), (Start: 50 @29011 has 1 MA's), (Start: 54 @29023 has 19 MA's), (77, 29083), (126, 29230), (138, 29263), (153, 29305),

Gene: DocMcStuffins_35 Start: 29381, Stop: 29755, Start Num: 45

Candidate Starts for DocMcStuffins_35:

(Start: 45 @29381 has 263 MA's), (Start: 50 @29396 has 1 MA's), (Start: 54 @29408 has 19 MA's), (126, 29615), (138, 29648),

Gene: Donkeykong_33 Start: 28947, Stop: 29321, Start Num: 45

Candidate Starts for Donkeykong_33:

(Start: 45 @28947 has 263 MA's), (Start: 50 @28962 has 1 MA's), (Start: 54 @28974 has 19 MA's), (126, 29181), (138, 29214),

Gene: Donovan_29 Start: 25474, Stop: 25833, Start Num: 45

Candidate Starts for Donovan_29:

(Start: 45 @25474 has 263 MA's), (77, 25561), (126, 25699), (138, 25732),

Gene: Doomphist_33 Start: 28884, Stop: 29258, Start Num: 45

Candidate Starts for Doomphist_33:

(Start: 45 @28884 has 263 MA's), (47, 28890), (Start: 50 @28899 has 1 MA's), (Start: 54 @28911 has 19 MA's), (126, 29118), (138, 29151),

Gene: Doomslug_37 Start: 28595, Stop: 28969, Start Num: 45

Candidate Starts for Doomslug_37:

(Start: 45 @28595 has 263 MA's), (Start: 50 @28610 has 1 MA's), (Start: 54 @28622 has 19 MA's), (126, 28829), (138, 28862),

Gene: Dorothea_33 Start: 22214, Stop: 22510, Start Num: 55

Candidate Starts for Dorothea_33:

(Start: 55 @22214 has 109 MA's), (87, 22268), (126, 22367), (141, 22412),

Gene: Dorothy_33 Start: 28730, Stop: 29104, Start Num: 45

Candidate Starts for Dorothy_33:

(Start: 45 @28730 has 263 MA's), (47, 28736), (Start: 50 @28745 has 1 MA's), (Start: 54 @28757 has 19 MA's), (126, 28964), (138, 28997), (153, 29039),

Gene: DosHalletts_35 Start: 29148, Stop: 29522, Start Num: 45

Candidate Starts for DosHalletts_35:

(Start: 45 @29148 has 263 MA's), (47, 29154), (Start: 50 @29163 has 1 MA's), (Start: 54 @29175 has 19 MA's), (77, 29235), (126, 29382), (138, 29415), (153, 29457),

Gene: DotProduct_33 Start: 28753, Stop: 29127, Start Num: 45

Candidate Starts for DotProduct_33:

(Start: 45 @28753 has 263 MA's), (Start: 46 @28756 has 18 MA's), (Start: 50 @28768 has 1 MA's), (Start: 54 @28780 has 19 MA's), (126, 28987), (138, 29020),

Gene: Doug_34 Start: 29325, Stop: 29699, Start Num: 45

Candidate Starts for Doug_34:

(Start: 45 @29325 has 263 MA's), (Start: 50 @29340 has 1 MA's), (Start: 54 @29352 has 19 MA's), (126, 29559), (138, 29592), (153, 29634),

Gene: Dove_48 Start: 42823, Stop: 43197, Start Num: 52

Candidate Starts for Dove_48:

(Start: 52 @42823 has 40 MA's), (69, 42865), (72, 42877), (117, 42988), (126, 43033), (138, 43075), (146, 43108), (147, 43117), (149, 43129),

Gene: Drago_34 Start: 28580, Stop: 28954, Start Num: 45

Candidate Starts for Drago_34:

(Start: 45 @28580 has 263 MA's), (Start: 46 @28583 has 18 MA's), (Start: 50 @28595 has 1 MA's), (Start: 54 @28607 has 19 MA's), (126, 28814), (138, 28847), (153, 28889),

Gene: Drake55_32 Start: 22902, Stop: 23225, Start Num: 58

Candidate Starts for Drake55_32:

(31, 22743), (Start: 58 @22902 has 27 MA's), (Start: 78 @22929 has 12 MA's), (80, 22935), (105, 22989), (138, 23103), (160, 23202),

Gene: DreamTeam1_30 Start: 21951, Stop: 22319, Start Num: 55

Candidate Starts for DreamTeam1_30:

(31, 21792), (41, 21900), (Start: 55 @21951 has 109 MA's), (Start: 86 @21996 has 1 MA's), (95, 22020), (102, 22032), (103, 22035), (130, 22140), (133, 22152), (138, 22182), (141, 22194), (147, 22203), (174, 22314),

Gene: DropBear_30 Start: 22585, Stop: 22887, Start Num: 66

Candidate Starts for DropBear_30:

(38, 22486), (Start: 49 @22543 has 3 MA's), (Start: 66 @22585 has 113 MA's), (80, 22621), (116, 22693),

Gene: Dublin_26 Start: 22192, Stop: 22512, Start Num: 65

Candidate Starts for Dublin_26:

(29, 21952), (Start: 39 @22102 has 2 MA's), (Start: 65 @22192 has 36 MA's), (Start: 78 @22222 has 12 MA's), (80, 22228), (126, 22354), (137, 22384), (138, 22387), (147, 22408), (154, 22441), (170, 22504),

Gene: DudeLittle_30 Start: 22559, Stop: 22846, Start Num: 74

Candidate Starts for DudeLittle_30:

(37, 22400), (Start: 74 @22559 has 17 MA's), (138, 22724), (147, 22745), (160, 22823),

Gene: Duke13_54 Start: 43607, Stop: 44002, Start Num: 52

Candidate Starts for Duke13_54:

(Start: 52 @43607 has 40 MA's), (69, 43649), (72, 43661), (117, 43772), (126, 43817), (138, 43859), (146, 43892), (147, 43901), (149, 43913),

Gene: Duplicity_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for Duplicity_30:

(Start: 43 @24740 has 34 MA's), (85, 24833), (93, 24851), (122, 24938), (126, 24959),

Gene: Dwayne_24 Start: 20697, Stop: 21053, Start Num: 60

Candidate Starts for Dwayne_24:

(Start: 60 @20697 has 17 MA's), (Start: 78 @20736 has 12 MA's), (Start: 91 @20769 has 4 MA's), (121, 20862), (136, 20919), (138, 20928), (171, 21045),

Gene: Dynamo_29 Start: 25896, Stop: 26255, Start Num: 45

Candidate Starts for Dynamo_29:

(Start: 45 @25896 has 263 MA's), (77, 25983), (126, 26121), (138, 26154),

Gene: EGUunicorn_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for EGUunicorn_30:

(Start: 43 @24740 has 34 MA's), (122, 24938), (126, 24959),

Gene: ELB20_24 Start: 21476, Stop: 21796, Start Num: 91

Candidate Starts for ELB20_24:

(Start: 64 @21413 has 1 MA's), (70, 21425), (Start: 75 @21437 has 1 MA's), (Start: 91 @21476 has 4 MA's), (102, 21497), (114, 21536), (130, 21614), (138, 21635), (158, 21740), (166, 21770),

Gene: EZMoney23_34 Start: 24442, Stop: 24765, Start Num: 58

Candidate Starts for EZMoney23_34:

(31, 24283), (Start: 58 @24442 has 27 MA's), (Start: 78 @24469 has 12 MA's), (80, 24475), (88, 24490), (106, 24532), (138, 24643), (160, 24742),

Gene: EagleEye_32 Start: 23189, Stop: 23464, Start Num: 55

Candidate Starts for EagleEye_32:

(Start: 55 @23189 has 109 MA's), (80, 23231), (87, 23243), (Start: 91 @23255 has 4 MA's), (105, 23285), (121, 23318), (126, 23342),

Gene: Ebony_30 Start: 23116, Stop: 23439, Start Num: 53

Candidate Starts for Ebony_30:

(Start: 53 @23116 has 29 MA's), (59, 23125), (95, 23185), (102, 23197), (121, 23239), (133, 23296),

Gene: Echild_30 Start: 22524, Stop: 22853, Start Num: 58

Candidate Starts for Echild_30:

(31, 22365), (Start: 58 @22524 has 27 MA's), (Start: 78 @22551 has 12 MA's), (80, 22557), (102, 22602), (105, 22611), (138, 22725), (142, 22740), (160, 22824),

Gene: Eddasa_26 Start: 20960, Stop: 21313, Start Num: 63

Candidate Starts for Eddasa_26:

(Start: 63 @20960 has 52 MA's), (Start: 78 @20996 has 12 MA's), (Start: 91 @21029 has 4 MA's), (138, 21188),

Gene: EdogawaKiddo_30 Start: 24050, Stop: 24376, Start Num: 84

Candidate Starts for EdogawaKiddo_30:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Eidsmoe_32 Start: 24074, Stop: 24442, Start Num: 56

Candidate Starts for Eidsmoe_32:

(40, 24014), (Start: 56 @24074 has 26 MA's), (79, 24110), (84, 24116), (102, 24155), (105, 24164), (130, 24263), (133, 24275), (138, 24305), (141, 24317), (153, 24347),

Gene: Eish_33 Start: 29472, Stop: 29846, Start Num: 45

Candidate Starts for Eish_33:

(Start: 45 @29472 has 263 MA's), (Start: 46 @29475 has 18 MA's), (Start: 50 @29487 has 1 MA's), (Start: 54 @29499 has 19 MA's), (126, 29706), (138, 29739), (153, 29781),

Gene: Ejemplo_24 Start: 20736, Stop: 21092, Start Num: 60

Candidate Starts for Ejemplo_24:

(Start: 60 @20736 has 17 MA's), (Start: 78 @20775 has 12 MA's), (Start: 91 @20808 has 4 MA's), (121, 20901), (136, 20958), (138, 20967), (171, 21084),

Gene: Ejimix_51 Start: 44526, Stop: 44921, Start Num: 52

Candidate Starts for Ejimix_51:

(Start: 52 @44526 has 40 MA's), (69, 44568), (72, 44580), (117, 44691), (126, 44736), (138, 44778), (146, 44811), (147, 44820),

Gene: ElGato_27 Start: 21835, Stop: 22221, Start Num: 63

Candidate Starts for ElGato_27:

(Start: 63 @21835 has 52 MA's), (Start: 78 @21859 has 12 MA's), (Start: 91 @21892 has 4 MA's), (98, 21907), (100, 21910), (104, 21919), (114, 21952), (121, 21985), (128, 22021), (138, 22051), (157, 22129), (158, 22135),

Gene: ElTiger69_27 Start: 21545, Stop: 21865, Start Num: 65

Candidate Starts for ElTiger69_27:

(Start: 39 @21455 has 2 MA's), (Start: 65 @21545 has 36 MA's), (Start: 78 @21575 has 12 MA's), (80, 21581), (126, 21707), (138, 21740), (147, 21761), (154, 21794), (159, 21833), (170, 21857),

Gene: EleanorGeorge_34 Start: 29497, Stop: 29871, Start Num: 45

Candidate Starts for EleanorGeorge_34:

(Start: 45 @29497 has 263 MA's), (94, 29626), (99, 29635), (126, 29731), (138, 29764),

Gene: Elephantoon_31 Start: 23447, Stop: 23815, Start Num: 56

Candidate Starts for Elephantoon_31:

(Start: 56 @23447 has 26 MA's), (95, 23516), (97, 23519), (102, 23528), (130, 23636), (133, 23648), (138, 23678), (153, 23720),

Gene: Elle_30 Start: 21306, Stop: 21647, Start Num: 55

Candidate Starts for Elle_30:

(31, 21150), (Start: 55 @21306 has 109 MA's), (80, 21348), (88, 21366), (90, 21372), (110, 21417), (157, 21594), (167, 21630), (172, 21636),

Gene: Emaanora_26 Start: 20655, Stop: 21011, Start Num: 60

Candidate Starts for Emaanora_26:

(Start: 60 @20655 has 17 MA's), (Start: 78 @20694 has 12 MA's), (Start: 91 @20727 has 4 MA's), (121, 20820), (136, 20877), (138, 20886), (171, 21003),

Gene: EmiMonkey_34 Start: 30376, Stop: 30750, Start Num: 45

Candidate Starts for EmiMonkey_34:

(Start: 45 @30376 has 263 MA's), (Start: 46 @30379 has 18 MA's), (Start: 50 @30391 has 1 MA's), (Start: 54 @30403 has 19 MA's), (126, 30610), (138, 30643), (153, 30685),

Gene: Emma_35 Start: 29365, Stop: 29739, Start Num: 45

Candidate Starts for Emma_35:

(Start: 45 @29365 has 263 MA's), (Start: 50 @29380 has 1 MA's), (Start: 54 @29392 has 19 MA's), (126, 29599), (138, 29632),

Gene: Emmaloid_35 Start: 30145, Stop: 30519, Start Num: 45

Candidate Starts for Emmaloid_35:

(Start: 45 @30145 has 263 MA's), (47, 30151), (Start: 50 @30160 has 1 MA's), (Start: 54 @30172 has 19 MA's), (126, 30379), (138, 30412), (153, 30454),

Gene: Empress_34 Start: 30180, Stop: 30554, Start Num: 45

Candidate Starts for Empress_34:

(Start: 45 @30180 has 263 MA's), (Start: 50 @30195 has 1 MA's), (Start: 54 @30207 has 19 MA's), (126, 30414), (138, 30447), (153, 30489),

Gene: EmyBug_32 Start: 24074, Stop: 24442, Start Num: 56

Candidate Starts for EmyBug_32:

(40, 24014), (Start: 56 @24074 has 26 MA's), (79, 24110), (84, 24116), (102, 24155), (105, 24164), (130, 24263), (133, 24275), (138, 24305), (141, 24317), (153, 24347),

Gene: Enby_35 Start: 29026, Stop: 29400, Start Num: 45

Candidate Starts for Enby_35:

(Start: 45 @29026 has 263 MA's), (94, 29155), (99, 29164), (126, 29260), (138, 29293),

Gene: EnochSoames_27 Start: 20955, Stop: 21308, Start Num: 63

Candidate Starts for EnochSoames_27:

(Start: 63 @20955 has 52 MA's), (Start: 78 @20991 has 12 MA's), (Start: 91 @21024 has 4 MA's), (138, 21183),

Gene: Enzomatic_38 Start: 28943, Stop: 29317, Start Num: 45

Candidate Starts for Enzomatic_38:

(Start: 45 @28943 has 263 MA's), (Start: 46 @28946 has 18 MA's), (Start: 50 @28958 has 1 MA's), (Start: 54 @28970 has 19 MA's), (77, 29030), (126, 29177), (138, 29210),

Gene: EpicPhail_32 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for EpicPhail_32:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: Epsocamisio_32 Start: 21405, Stop: 21746, Start Num: 55

Candidate Starts for Epsocamisio_32:

(Start: 55 @21405 has 109 MA's), (90, 21471), (95, 21483), (157, 21693), (167, 21729), (172, 21735),

Gene: Equemioh13_32 Start: 22888, Stop: 23217, Start Num: 58

Candidate Starts for Equemioh13_32:

(31, 22729), (Start: 58 @22888 has 27 MA's), (Start: 78 @22915 has 12 MA's), (80, 22921), (105, 22975), (138, 23089), (142, 23104), (160, 23188),

Gene: Eradicator_33 Start: 28867, Stop: 29241, Start Num: 45

Candidate Starts for Eradicator_33:

(Start: 45 @28867 has 263 MA's), (Start: 50 @28882 has 1 MA's), (Start: 54 @28894 has 19 MA's), (126, 29101), (138, 29134), (153, 29176),

Gene: EricB_33 Start: 22206, Stop: 22502, Start Num: 55

Candidate Starts for EricB_33:

(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: EricMillard_51 Start: 44027, Stop: 44422, Start Num: 52

Candidate Starts for EricMillard_51:

(Start: 52 @44027 has 40 MA's), (69, 44069), (72, 44081), (117, 44192), (126, 44237), (138, 44279), (146, 44312), (147, 44321),

Gene: Esperer_25 Start: 20410, Stop: 20763, Start Num: 63

Candidate Starts for Esperer_25:

(Start: 63 @20410 has 52 MA's), (Start: 78 @20446 has 12 MA's), (Start: 91 @20479 has 4 MA's), (136, 20629), (138, 20638), (140, 20647), (154, 20692),

Gene: Estave1_31 Start: 28284, Stop: 28658, Start Num: 45

Candidate Starts for Estave1_31:

(Start: 45 @28284 has 263 MA's), (Start: 46 @28287 has 18 MA's), (Start: 50 @28299 has 1 MA's),
(Start: 54 @28311 has 19 MA's), (126, 28518), (138, 28551),

Gene: Et2Brutus_29 Start: 23076, Stop: 23399, Start Num: 53

Candidate Starts for Et2Brutus_29:

(Start: 53 @23076 has 29 MA's), (59, 23085), (95, 23145), (102, 23157), (121, 23199), (133, 23256),

Gene: Etoile_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Etoile_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: EtoileNova_31 Start: 23063, Stop: 23365, Start Num: 66

Candidate Starts for EtoileNova_31:

(Start: 49 @23018 has 3 MA's), (Start: 66 @23063 has 113 MA's), (Start: 78 @23093 has 12 MA's),
(83, 23102), (102, 23144), (116, 23171),

Gene: EvilGenius_32 Start: 22841, Stop: 23185, Start Num: 54

Candidate Starts for EvilGenius_32:

(32, 22682), (Start: 54 @22841 has 19 MA's), (Start: 60 @22850 has 17 MA's), (Start: 86 @22922 has
1 MA's), (94, 22931), (137, 23057),

Gene: Expelliarmus_26 Start: 21198, Stop: 21479, Start Num: 65

Candidate Starts for Expelliarmus_26:

(Start: 65 @21198 has 36 MA's), (Start: 78 @21225 has 12 MA's), (80, 21231), (90, 21255), (105,
21285), (157, 21432), (159, 21447), (163, 21459), (168, 21468),

Gene: ExplosioNervosa_32 Start: 24077, Stop: 24445, Start Num: 56

Candidate Starts for ExplosioNervosa_32:

(40, 24017), (Start: 56 @24077 has 26 MA's), (79, 24113), (84, 24119), (102, 24158), (105, 24167),
(130, 24266), (133, 24278), (138, 24308), (141, 24320), (153, 24350),

Gene: Fameo_30 Start: 22528, Stop: 22815, Start Num: 74

Candidate Starts for Fameo_30:

(37, 22369), (Start: 74 @22528 has 17 MA's), (138, 22693), (147, 22714), (160, 22792),

Gene: Fancypants_33 Start: 28773, Stop: 29147, Start Num: 45

Candidate Starts for Fancypants_33:

(Start: 45 @28773 has 263 MA's), (Start: 46 @28776 has 18 MA's), (Start: 50 @28788 has 1 MA's),
(Start: 54 @28800 has 19 MA's), (77, 28860), (126, 29007), (138, 29040), (153, 29082),

Gene: Farber_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for Farber_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has
12 MA's),

Gene: Fastidio_35 Start: 29084, Stop: 29455, Start Num: 46

Candidate Starts for Fastidio_35:

(Start: 45 @29081 has 263 MA's), (Start: 46 @29084 has 18 MA's), (Start: 50 @29096 has 1 MA's),
(Start: 54 @29108 has 19 MA's), (126, 29315), (138, 29348),

Gene: FatCactus_28 Start: 20868, Stop: 21134, Start Num: 55

Candidate Starts for FatCactus_28:

(31, 20712), (41, 20820), (Start: 55 @20868 has 109 MA's), (Start: 91 @20925 has 4 MA's), (105, 20955), (129, 21024),

Gene: Fayely_32 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Fayely_32:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (92, 24104), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (136, 24263), (138, 24272),

Gene: Fernando_32 Start: 22962, Stop: 23264, Start Num: 66

Candidate Starts for Fernando_32:

(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has 12 MA's),

Gene: Fibonacci_30 Start: 23070, Stop: 23393, Start Num: 53

Candidate Starts for Fibonacci_30:

(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: Filuzino_33 Start: 28715, Stop: 29089, Start Num: 45

Candidate Starts for Filuzino_33:

(Start: 45 @28715 has 263 MA's), (Start: 50 @28730 has 1 MA's), (Start: 54 @28742 has 19 MA's), (126, 28949), (138, 28982),

Gene: Finkle_22 Start: 19227, Stop: 19592, Start Num: 58

Candidate Starts for Finkle_22:

(Start: 58 @19227 has 27 MA's), (Start: 62 @19236 has 29 MA's), (Start: 78 @19272 has 12 MA's), (82, 19281), (84, 19287), (90, 19302), (98, 19320), (121, 19389), (155, 19521),

Gene: Firehouse51_34 Start: 29554, Stop: 29928, Start Num: 45

Candidate Starts for Firehouse51_34:

(Start: 45 @29554 has 263 MA's), (Start: 50 @29569 has 1 MA's), (Start: 54 @29581 has 19 MA's), (126, 29788), (138, 29821),

Gene: FiringLine_30 Start: 22350, Stop: 22637, Start Num: 74

Candidate Starts for FiringLine_30:

(37, 22191), (Start: 74 @22350 has 17 MA's), (138, 22515), (147, 22536), (160, 22614),

Gene: First_0030 Start: 22516, Stop: 22857, Start Num: 54

Candidate Starts for First_0030:

(32, 22360), (Start: 54 @22516 has 19 MA's), (82, 22588), (94, 22606), (138, 22735),

Gene: FirstPlacePfu_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for FirstPlacePfu_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: Fishburne_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Fishburne_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: Flare16_30 Start: 22446, Stop: 22775, Start Num: 58

Candidate Starts for Flare16_30:

(31, 22287), (Start: 58 @22446 has 27 MA's), (Start: 78 @22473 has 12 MA's), (80, 22479), (105, 22533), (138, 22647), (142, 22662), (160, 22746),

Gene: Flathead_33 Start: 29361, Stop: 29735, Start Num: 45

Candidate Starts for Flathead_33:

(Start: 45 @29361 has 263 MA's), (Start: 50 @29376 has 1 MA's), (Start: 54 @29388 has 19 MA's), (126, 29595), (138, 29628),

Gene: Flaverint_30 Start: 23067, Stop: 23390, Start Num: 53

Candidate Starts for Flaverint_30:

(Start: 53 @23067 has 29 MA's), (59, 23076), (95, 23136), (102, 23148), (121, 23190), (133, 23247),

Gene: Florence1_27 Start: 22045, Stop: 22335, Start Num: 78

Candidate Starts for Florence1_27:

(Start: 65 @22015 has 36 MA's), (Start: 78 @22045 has 12 MA's), (80, 22051), (126, 22177), (130, 22198), (138, 22210), (147, 22231), (154, 22264), (170, 22327),

Gene: Florence4_28 Start: 22051, Stop: 22335, Start Num: 80

Candidate Starts for Florence4_28:

(Start: 65 @22015 has 36 MA's), (Start: 78 @22045 has 12 MA's), (80, 22051), (126, 22177), (130, 22198), (138, 22210), (147, 22231), (154, 22264), (170, 22327),

Gene: Florinda_33 Start: 28765, Stop: 29139, Start Num: 45

Candidate Starts for Florinda_33:

(Start: 45 @28765 has 263 MA's), (Start: 46 @28768 has 18 MA's), (Start: 50 @28780 has 1 MA's), (Start: 54 @28792 has 19 MA's), (126, 28999), (138, 29032), (153, 29074),

Gene: FlyCatcher_33 Start: 25243, Stop: 25533, Start Num: 68

Candidate Starts for FlyCatcher_33:

(Start: 68 @25243 has 1 MA's), (83, 25279), (Start: 91 @25300 has 4 MA's), (121, 25360),

Gene: ForGetIt_27 Start: 22158, Stop: 22478, Start Num: 65

Candidate Starts for ForGetIt_27:

(Start: 39 @22068 has 2 MA's), (Start: 65 @22158 has 36 MA's), (Start: 78 @22188 has 12 MA's), (80, 22194), (126, 22320), (137, 22350), (138, 22353), (147, 22374), (154, 22407), (161, 22455), (170, 22470),

Gene: Frankie_37 Start: 29909, Stop: 30283, Start Num: 45

Candidate Starts for Frankie_37:

(Start: 45 @29909 has 263 MA's), (47, 29915), (Start: 50 @29924 has 1 MA's), (Start: 54 @29936 has 19 MA's), (126, 30143), (138, 30176), (153, 30218),

Gene: Fred313_30 Start: 22270, Stop: 22572, Start Num: 66

Candidate Starts for Fred313_30:

(38, 22171), (Start: 49 @22228 has 3 MA's), (Start: 66 @22270 has 113 MA's), (80, 22306), (116, 22378),

Gene: FreddyB_33 Start: 29032, Stop: 29403, Start Num: 46

Candidate Starts for FreddyB_33:

(Start: 45 @29029 has 263 MA's), (Start: 46 @29032 has 18 MA's), (Start: 50 @29044 has 1 MA's), (Start: 54 @29056 has 19 MA's), (126, 29263), (138, 29296),

Gene: Fruitloop_32 Start: 28910, Stop: 29284, Start Num: 45

Candidate Starts for Fruitloop_32:

(Start: 45 @28910 has 263 MA's), (Start: 50 @28925 has 1 MA's), (Start: 54 @28937 has 19 MA's), (126, 29144), (138, 29177),

Gene: Fulbright_29 Start: 24563, Stop: 24943, Start Num: 43

Candidate Starts for Fulbright_29:

(Start: 43 @24563 has 34 MA's), (122, 24773), (126, 24794),

Gene: GUmbie_33 Start: 28784, Stop: 29158, Start Num: 45

Candidate Starts for GUmbie_33:

(Start: 45 @28784 has 263 MA's), (47, 28790), (Start: 50 @28799 has 1 MA's), (Start: 54 @28811 has 19 MA's), (126, 29018), (138, 29051), (153, 29093),

Gene: Gaia_36 Start: 31870, Stop: 32178, Start Num: 54

Candidate Starts for Gaia_36:

(Start: 54 @31870 has 19 MA's), (71, 31918), (73, 31924), (79, 31936), (101, 31981), (123, 32065), (127, 32086), (138, 32119),

Gene: Gail_30 Start: 21666, Stop: 22022, Start Num: 55

Candidate Starts for Gail_30:

(31, 21507), (Start: 55 @21666 has 109 MA's), (79, 21702), (84, 21708), (95, 21735), (105, 21756), (130, 21855), (138, 21897),

Gene: Galactic_35 Start: 29602, Stop: 29976, Start Num: 45

Candidate Starts for Galactic_35:

(Start: 45 @29602 has 263 MA's), (Start: 50 @29617 has 1 MA's), (Start: 54 @29629 has 19 MA's), (126, 29836), (138, 29869),

Gene: GaloreK_29 Start: 25481, Stop: 25840, Start Num: 45

Candidate Starts for GaloreK_29:

(Start: 45 @25481 has 263 MA's), (77, 25568), (126, 25706), (138, 25739),

Gene: Gandolph_34 Start: 29100, Stop: 29474, Start Num: 45

Candidate Starts for Gandolph_34:

(Start: 45 @29100 has 263 MA's), (Start: 50 @29115 has 1 MA's), (Start: 54 @29127 has 19 MA's), (126, 29334), (138, 29367),

Gene: Garak_34 Start: 22214, Stop: 22510, Start Num: 55

Candidate Starts for Garak_34:

(41, 22163), (Start: 55 @22214 has 109 MA's), (84, 22262), (126, 22367), (141, 22412),

Gene: GaugeLDP_32 Start: 23699, Stop: 24025, Start Num: 58

Candidate Starts for GaugeLDP_32:

(Start: 58 @23699 has 27 MA's), (Start: 78 @23726 has 12 MA's), (80, 23732), (88, 23747), (106, 23789), (108, 23792), (138, 23903), (160, 24002),

Gene: Gavriela_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for Gavriela_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Gemma_32 Start: 22998, Stop: 23345, Start Num: 49

Candidate Starts for Gemma_32:

(Start: 49 @22998 has 3 MA's), (Start: 66 @23043 has 113 MA's), (116, 23151),

Gene: George_26 Start: 22254, Stop: 22544, Start Num: 78

Candidate Starts for George_26:

(Start: 39 @22134 has 2 MA's), (Start: 65 @22224 has 36 MA's), (Start: 78 @22254 has 12 MA's), (80, 22260), (121, 22362), (126, 22386), (130, 22407), (138, 22419), (147, 22440), (154, 22473), (161, 22521), (170, 22536),

Gene: Georgie2_31 Start: 22341, Stop: 22682, Start Num: 54

Candidate Starts for Georgie2_31:

(Start: 54 @22341 has 19 MA's), (Start: 86 @22422 has 1 MA's), (94, 22431), (137, 22557), (161, 22659),

Gene: Geralt_33 Start: 28766, Stop: 29140, Start Num: 45

Candidate Starts for Geralt_33:

(Start: 45 @28766 has 263 MA's), (Start: 50 @28781 has 1 MA's), (Start: 54 @28793 has 19 MA's), (126, 29000), (138, 29033), (153, 29075),

Gene: Gex_30 Start: 24736, Stop: 25116, Start Num: 43

Candidate Starts for Gex_30:

(Start: 43 @24736 has 34 MA's), (122, 24946), (126, 24967),

Gene: Ghouboy_27 Start: 22473, Stop: 22793, Start Num: 65

Candidate Starts for Ghouboy_27:

(Start: 39 @22383 has 2 MA's), (Start: 65 @22473 has 36 MA's), (Start: 78 @22503 has 12 MA's), (80, 22509), (105, 22563), (121, 22611), (126, 22635), (130, 22656), (138, 22668), (147, 22689), (154, 22722), (170, 22785),

Gene: GigiOuiOui_33 Start: 28899, Stop: 29270, Start Num: 46

Candidate Starts for GigiOuiOui_33:

(Start: 45 @28896 has 263 MA's), (Start: 46 @28899 has 18 MA's), (Start: 50 @28911 has 1 MA's), (Start: 54 @28923 has 19 MA's), (77, 28983), (126, 29130), (138, 29163),

Gene: Gilberta_30 Start: 23064, Stop: 23387, Start Num: 53

Candidate Starts for Gilberta_30:

(Start: 53 @23064 has 29 MA's), (59, 23073), (95, 23133), (102, 23145), (121, 23187), (133, 23244),

Gene: GingkoMaracino_32 Start: 22849, Stop: 23151, Start Num: 66

Candidate Starts for GingkoMaracino_32:

(48, 22801), (Start: 49 @22804 has 3 MA's), (Start: 66 @22849 has 113 MA's), (Start: 78 @22879 has 12 MA's),

Gene: Girafales_34 Start: 28573, Stop: 28947, Start Num: 45

Candidate Starts for Girafales_34:

(Start: 45 @28573 has 263 MA's), (Start: 46 @28576 has 18 MA's), (Start: 50 @28588 has 1 MA's), (Start: 54 @28600 has 19 MA's), (126, 28807), (138, 28840), (153, 28882),

Gene: GirlDinner_25 Start: 21075, Stop: 21428, Start Num: 62

Candidate Starts for GirlDinner_25:

(Start: 62 @21075 has 29 MA's), (70, 21090), (Start: 75 @21102 has 1 MA's), (82, 21117), (Start: 91 @21141 has 4 MA's), (98, 21156), (121, 21213), (131, 21261),

Gene: Giroux_31 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for Giroux_31:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has 12 MA's), (83, 22563),

Gene: Girr_35 Start: 29802, Stop: 30176, Start Num: 45

Candidate Starts for Girr_35:

(Start: 45 @29802 has 263 MA's), (Start: 50 @29817 has 1 MA's), (Start: 54 @29829 has 19 MA's), (126, 30036), (138, 30069), (153, 30111),

Gene: Gladiator_33 Start: 22200, Stop: 22496, Start Num: 55

Candidate Starts for Gladiator_33:

(41, 22149), (Start: 55 @22200 has 109 MA's), (84, 22248), (126, 22353), (141, 22398),

Gene: Glaske_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for Glaske_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Goby_25 Start: 21283, Stop: 21636, Start Num: 63

Candidate Starts for Goby_25:

(Start: 63 @21283 has 52 MA's), (Start: 91 @21355 has 4 MA's), (121, 21448), (130, 21493), (136, 21505), (157, 21592), (173, 21631),

Gene: Godpower_26 Start: 21275, Stop: 21628, Start Num: 63

Candidate Starts for Godpower_26:

(Start: 63 @21275 has 52 MA's), (Start: 91 @21347 has 4 MA's), (121, 21440), (130, 21485), (136, 21497), (157, 21584),

Gene: Gonephishing_52 Start: 41701, Stop: 42087, Start Num: 52

Candidate Starts for Gonephishing_52:

(Start: 52 @41701 has 40 MA's), (Start: 68 @41740 has 1 MA's), (72, 41755), (77, 41764), (126, 41911), (131, 41935), (138, 41953), (145, 41983), (147, 41995),

Gene: Gorge_33 Start: 28996, Stop: 29370, Start Num: 45

Candidate Starts for Gorge_33:

(Start: 45 @28996 has 263 MA's), (Start: 46 @28999 has 18 MA's), (Start: 50 @29011 has 1 MA's), (Start: 54 @29023 has 19 MA's), (126, 29230), (138, 29263), (153, 29305),

Gene: Gratitude_31 Start: 22888, Stop: 23217, Start Num: 58

Candidate Starts for Gratitude_31:

(31, 22729), (Start: 58 @22888 has 27 MA's), (Start: 78 @22915 has 12 MA's), (80, 22921), (105, 22975), (138, 23089), (142, 23104), (160, 23188),

Gene: GreaseLightnin_29 Start: 25736, Stop: 26095, Start Num: 45

Candidate Starts for GreaseLightnin_29:

(Start: 45 @25736 has 263 MA's), (77, 25823), (126, 25961), (138, 25994),

Gene: GreedyLawyer_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for GreedyLawyer_33:

(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: GreenWeasel_27 Start: 20984, Stop: 21337, Start Num: 62

Candidate Starts for GreenWeasel_27:

(36, 20843), (Start: 62 @20984 has 29 MA's), (Start: 75 @21011 has 1 MA's), (89, 21044), (Start: 91 @21050 has 4 MA's), (105, 21080), (121, 21143), (130, 21188), (158, 21293), (164, 21317),

Gene: Grif_32 Start: 23046, Stop: 23348, Start Num: 66

Candidate Starts for Grif_32:

(48, 22998), (Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (Start: 78 @23076 has 12 MA's),

Gene: Grimmer_35 Start: 29487, Stop: 29861, Start Num: 45

Candidate Starts for Grimmer_35:

(Start: 45 @29487 has 263 MA's), (Start: 46 @29490 has 18 MA's), (Start: 50 @29502 has 1 MA's), (Start: 54 @29514 has 19 MA's), (126, 29721), (138, 29754), (153, 29796),

Gene: Groundhog_26 Start: 21199, Stop: 21480, Start Num: 65

Candidate Starts for Groundhog_26:

(Start: 65 @21199 has 36 MA's), (Start: 78 @21226 has 12 MA's), (80, 21232), (90, 21256), (105, 21286), (157, 21433), (159, 21448), (163, 21460), (168, 21469),

Gene: Groupthink_33 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Groupthink_33:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: Grub_32 Start: 22955, Stop: 23257, Start Num: 66

Candidate Starts for Grub_32:

(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has 12 MA's),

Gene: Grum1_32 Start: 22962, Stop: 23264, Start Num: 66

Candidate Starts for Grum1_32:

(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has 12 MA's), (Start: 91 @23022 has 4 MA's), (116, 23070),

Gene: Gruunaga_33 Start: 22200, Stop: 22496, Start Num: 55

Candidate Starts for Gruunaga_33:

(41, 22149), (Start: 55 @22200 has 109 MA's), (84, 22248), (126, 22353), (141, 22398),

Gene: GtownJaz_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for GtownJaz_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's),

Gene: Guppsters_35 Start: 29282, Stop: 29656, Start Num: 45

Candidate Starts for Guppsters_35:

(Start: 45 @29282 has 263 MA's), (Start: 50 @29297 has 1 MA's), (Start: 54 @29309 has 19 MA's), (115, 29465), (126, 29516), (138, 29549),

Gene: Gwennie_31 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for Gwennie_31:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: HC_30 Start: 25611, Stop: 25973, Start Num: 45

Candidate Starts for HC_30:

(Start: 45 @25611 has 263 MA's), (Start: 46 @25614 has 18 MA's), (121, 25812), (122, 25815), (126, 25836), (138, 25869),

Gene: HUHilltop_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for HUHilltop_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: Hades_34 Start: 29093, Stop: 29467, Start Num: 45

Candidate Starts for Hades_34:

(Start: 45 @29093 has 263 MA's), (Start: 46 @29096 has 18 MA's), (Start: 50 @29108 has 1 MA's),
(Start: 54 @29120 has 19 MA's), (77, 29180), (126, 29327), (138, 29360), (153, 29402),

Gene: Haizum_25 Start: 21215, Stop: 21568, Start Num: 62

Candidate Starts for Haizum_25:

(Start: 62 @21215 has 29 MA's), (Start: 66 @21224 has 113 MA's), (Start: 75 @21242 has 1 MA's),
(Start: 78 @21248 has 12 MA's), (82, 21257), (89, 21275), (100, 21299), (114, 21341), (131, 21422),
(143, 21458), (158, 21524), (164, 21548),

Gene: Halley_51 Start: 43740, Stop: 44135, Start Num: 52

Candidate Starts for Halley_51:

(Start: 52 @43740 has 40 MA's), (69, 43782), (72, 43794), (117, 43905), (126, 43950), (138, 43992),
(146, 44025), (147, 44034),

Gene: Hammer_33 Start: 22215, Stop: 22511, Start Num: 55

Candidate Starts for Hammer_33:

(41, 22164), (Start: 55 @22215 has 109 MA's), (84, 22263), (126, 22368), (141, 22413),

Gene: Hamulus_34 Start: 29756, Stop: 30130, Start Num: 45

Candidate Starts for Hamulus_34:

(Start: 45 @29756 has 263 MA's), (47, 29762), (Start: 50 @29771 has 1 MA's), (Start: 54 @29783 has
19 MA's), (126, 29990), (138, 30023), (153, 30065),

Gene: Hanako_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for Hanako_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036),
(130, 24057), (144, 24120), (151, 24189),

Gene: Hank144_26 Start: 21524, Stop: 21877, Start Num: 63

Candidate Starts for Hank144_26:

(Start: 63 @21524 has 52 MA's), (Start: 65 @21530 has 36 MA's), (Start: 91 @21590 has 4 MA's),
(138, 21749),

Gene: Hannaconda_47 Start: 38249, Stop: 38623, Start Num: 52

Candidate Starts for Hannaconda_47:

(Start: 52 @38249 has 40 MA's), (Start: 68 @38288 has 1 MA's), (72, 38303), (77, 38312), (117,
38414), (126, 38459), (138, 38501), (146, 38534), (147, 38543), (149, 38555),

Gene: Hanray_31 Start: 24012, Stop: 24380, Start Num: 56

Candidate Starts for Hanray_31:

(40, 23952), (Start: 56 @24012 has 26 MA's), (79, 24048), (84, 24054), (92, 24075), (102, 24093),
(105, 24102), (130, 24201), (133, 24213), (136, 24234), (138, 24243),

Gene: Harley_33 Start: 28702, Stop: 29076, Start Num: 45

Candidate Starts for Harley_33:

(Start: 45 @28702 has 263 MA's), (Start: 46 @28705 has 18 MA's), (Start: 50 @28717 has 1 MA's),
(Start: 54 @28729 has 19 MA's), (77, 28789), (126, 28936), (138, 28969), (153, 29011),

Gene: HarryHoudini_32 Start: 22905, Stop: 23228, Start Num: 58

Candidate Starts for HarryHoudini_32:

(31, 22746), (Start: 58 @22905 has 27 MA's), (Start: 78 @22932 has 12 MA's), (80, 22938), (105, 22992), (138, 23106), (160, 23205),

Gene: HashRod_33 Start: 23050, Stop: 23352, Start Num: 66

Candidate Starts for HashRod_33:

(48, 23002), (Start: 49 @23005 has 3 MA's), (Start: 66 @23050 has 113 MA's), (Start: 78 @23080 has 12 MA's),

Gene: HaveUMetTed_33 Start: 23040, Stop: 23342, Start Num: 66

Candidate Starts for HaveUMetTed_33:

(Start: 49 @22995 has 3 MA's), (Start: 66 @23040 has 113 MA's), (116, 23148),

Gene: Heathen_30 Start: 22326, Stop: 22628, Start Num: 66

Candidate Starts for Heathen_30:

(38, 22227), (Start: 49 @22284 has 3 MA's), (Start: 66 @22326 has 113 MA's), (80, 22362), (116, 22434),

Gene: Heffalump_32 Start: 24270, Stop: 24557, Start Num: 74

Candidate Starts for Heffalump_32:

(37, 24111), (Start: 74 @24270 has 17 MA's), (138, 24435), (147, 24456), (160, 24534),

Gene: Hegedechwinu_34 Start: 28791, Stop: 29165, Start Num: 45

Candidate Starts for Hegedechwinu_34:

(Start: 45 @28791 has 263 MA's), (Start: 50 @28806 has 1 MA's), (Start: 54 @28818 has 19 MA's), (126, 29025), (138, 29058),

Gene: HelDan_30 Start: 22578, Stop: 22880, Start Num: 66

Candidate Starts for HelDan_30:

(38, 22479), (Start: 49 @22536 has 3 MA's), (Start: 66 @22578 has 113 MA's), (80, 22614), (116, 22686),

Gene: Heliosoles_32 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Heliosoles_32:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: Helmet_33 Start: 22214, Stop: 22510, Start Num: 55

Candidate Starts for Helmet_33:

(41, 22163), (Start: 55 @22214 has 109 MA's), (84, 22262), (126, 22367), (141, 22412),

Gene: Hercules11_32 Start: 22970, Stop: 23272, Start Num: 66

Candidate Starts for Hercules11_32:

(48, 22922), (Start: 49 @22925 has 3 MA's), (Start: 66 @22970 has 113 MA's), (Start: 78 @23000 has 12 MA's),

Gene: Hexamo_33 Start: 22182, Stop: 22478, Start Num: 55

Candidate Starts for Hexamo_33:

(41, 22131), (Start: 55 @22182 has 109 MA's), (126, 22335), (141, 22380),

Gene: Hidrated_51 Start: 43539, Stop: 43925, Start Num: 52

Candidate Starts for Hidrated_51:

(Start: 52 @43539 has 40 MA's), (Start: 68 @43578 has 1 MA's), (72, 43593), (77, 43602), (126, 43749), (131, 43773), (138, 43791), (145, 43821), (147, 43833),

Gene: Hippo_24 Start: 20706, Stop: 21062, Start Num: 60

Candidate Starts for Hippo_24:

(Start: 60 @20706 has 17 MA's), (Start: 78 @20745 has 12 MA's), (Start: 91 @20778 has 4 MA's),
(121, 20871), (136, 20928), (138, 20937), (171, 21054),

Gene: HippoHollow_31 Start: 24199, Stop: 24483, Start Num: 76

Candidate Starts for HippoHollow_31:

(Start: 74 @24196 has 17 MA's), (76, 24199), (138, 24361), (160, 24460),

Gene: Hlubikazi_34 Start: 29588, Stop: 29962, Start Num: 45

Candidate Starts for Hlubikazi_34:

(Start: 45 @29588 has 263 MA's), (Start: 50 @29603 has 1 MA's), (Start: 54 @29615 has 19 MA's),
(126, 29822), (138, 29855),

Gene: HokkenD_44 Start: 42009, Stop: 42404, Start Num: 52

Candidate Starts for HokkenD_44:

(Start: 52 @42009 has 40 MA's), (69, 42051), (72, 42063), (117, 42174), (126, 42219), (138, 42261),
(146, 42294), (147, 42303),

Gene: Holec_31 Start: 24012, Stop: 24380, Start Num: 56

Candidate Starts for Holec_31:

(40, 23952), (Start: 56 @24012 has 26 MA's), (79, 24048), (84, 24054), (92, 24075), (102, 24093),
(105, 24102), (130, 24201), (133, 24213), (136, 24234), (138, 24243),

Gene: Hookmount_31 Start: 23060, Stop: 23362, Start Num: 66

Candidate Starts for Hookmount_31:

(Start: 49 @23015 has 3 MA's), (Start: 66 @23060 has 113 MA's), (Start: 78 @23090 has 12 MA's),
(83, 23099), (102, 23141), (116, 23168),

Gene: Hoot_33 Start: 22192, Stop: 22488, Start Num: 55

Candidate Starts for Hoot_33:

(Start: 55 @22192 has 109 MA's), (87, 22246), (126, 22345), (141, 22390),

Gene: HortumSL17_32 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for HortumSL17_32:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089),
(105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Hughesyang_49 Start: 43669, Stop: 44064, Start Num: 52

Candidate Starts for Hughesyang_49:

(Start: 52 @43669 has 40 MA's), (69, 43711), (72, 43723), (117, 43834), (126, 43879), (138, 43921),
(146, 43954), (147, 43963),

Gene: HuhtaEnerson15_27 Start: 22224, Stop: 22544, Start Num: 65

Candidate Starts for HuhtaEnerson15_27:

(Start: 39 @22134 has 2 MA's), (Start: 65 @22224 has 36 MA's), (Start: 78 @22254 has 12 MA's), (80,
22260), (121, 22362), (126, 22386), (130, 22407), (138, 22419), (147, 22440), (154, 22473), (161,
22521), (170, 22536),

Gene: Hutc2_30 Start: 23070, Stop: 23393, Start Num: 53

Candidate Starts for Hutc2_30:

(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: Hydra_27 Start: 21158, Stop: 21475, Start Num: 78

Candidate Starts for Hydra_27:

(Start: 63 @21122 has 52 MA's), (Start: 78 @21158 has 12 MA's), (Start: 91 @21191 has 4 MA's), (136, 21341), (138, 21350), (140, 21359), (154, 21404),

Gene: IMpilo_32 Start: 28569, Stop: 28943, Start Num: 45

Candidate Starts for IMpilo_32:

(Start: 45 @28569 has 263 MA's), (Start: 50 @28584 has 1 MA's), (Start: 54 @28596 has 19 MA's), (126, 28803), (138, 28836), (153, 28878),

Gene: IbOuu_35 Start: 29341, Stop: 29715, Start Num: 45

Candidate Starts for IbOuu_35:

(Start: 45 @29341 has 263 MA's), (Start: 46 @29344 has 18 MA's), (Start: 50 @29356 has 1 MA's), (Start: 54 @29368 has 19 MA's), (77, 29428), (126, 29575), (137, 29605), (138, 29608),

Gene: Ibhubesi_33 Start: 28709, Stop: 29083, Start Num: 45

Candidate Starts for Ibhubesi_33:

(Start: 45 @28709 has 263 MA's), (Start: 46 @28712 has 18 MA's), (Start: 50 @28724 has 1 MA's), (Start: 54 @28736 has 19 MA's), (77, 28796), (126, 28943), (138, 28976), (153, 29018),

Gene: Idleandcovert_30 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for Idleandcovert_30:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has 12 MA's), (83, 22563),

Gene: Impisi_29 Start: 24410, Stop: 24775, Start Num: 45

Candidate Starts for Impisi_29:

(Start: 45 @24410 has 263 MA's), (Start: 46 @24413 has 18 MA's), (96, 24533), (121, 24611), (122, 24614),

Gene: Indigo_24 Start: 20590, Stop: 20943, Start Num: 63

Candidate Starts for Indigo_24:

(Start: 63 @20590 has 52 MA's), (Start: 78 @20626 has 12 MA's), (Start: 91 @20659 has 4 MA's), (136, 20809), (138, 20818), (140, 20827), (154, 20872),

Gene: Indra_33 Start: 22215, Stop: 22511, Start Num: 55

Candidate Starts for Indra_33:

(41, 22164), (Start: 55 @22215 has 109 MA's), (84, 22263), (126, 22368), (141, 22413),

Gene: Insomnia_30 Start: 23125, Stop: 23448, Start Num: 53

Candidate Starts for Insomnia_30:

(Start: 53 @23125 has 29 MA's), (59, 23134), (95, 23194), (102, 23206), (121, 23248), (133, 23305),

Gene: Inventum_33 Start: 29446, Stop: 29820, Start Num: 45

Candidate Starts for Inventum_33:

(Start: 45 @29446 has 263 MA's), (47, 29452), (Start: 50 @29461 has 1 MA's), (Start: 54 @29473 has 19 MA's), (126, 29680), (138, 29713), (153, 29755),

Gene: IrishSherpFalk_35 Start: 30353, Stop: 30727, Start Num: 45

Candidate Starts for IrishSherpFalk_35:

(Start: 45 @30353 has 263 MA's), (Start: 46 @30356 has 18 MA's), (Start: 50 @30368 has 1 MA's), (Start: 54 @30380 has 19 MA's), (126, 30587), (137, 30617), (138, 30620), (153, 30662),

Gene: Isca_30 Start: 22462, Stop: 22764, Start Num: 66

Candidate Starts for Isca_30:

(38, 22363), (Start: 49 @22420 has 3 MA's), (Start: 66 @22462 has 113 MA's), (116, 22570),

Gene: Isiphiwo_33 Start: 22284, Stop: 22580, Start Num: 55

Candidate Starts for Isiphiwo_33:

(Start: 55 @22284 has 109 MA's), (87, 22338), (126, 22437), (141, 22482),

Gene: Island3_32 Start: 27623, Stop: 27982, Start Num: 45

Candidate Starts for Island3_32:

(28, 27455), (35, 27533), (Start: 45 @27623 has 263 MA's), (Start: 50 @27641 has 1 MA's), (77, 27710), (121, 27824), (126, 27848), (138, 27881),

Gene: Issmi_26 Start: 21936, Stop: 22289, Start Num: 62

Candidate Starts for Issmi_26:

(36, 21792), (Start: 62 @21936 has 29 MA's), (Start: 75 @21963 has 1 MA's), (Start: 78 @21969 has 12 MA's), (82, 21978), (89, 21996), (95, 22011), (98, 22017), (114, 22062), (118, 22074), (119, 22080), (130, 22140), (131, 22143), (139, 22164), (164, 22269),

Gene: Itza_27 Start: 21472, Stop: 21828, Start Num: 63

Candidate Starts for Itza_27:

(1, 19930), (5, 20665), (6, 20734), (7, 20740), (8, 20743), (9, 20758), (23, 21040), (24, 21106), (Start: 63 @21472 has 52 MA's), (Start: 78 @21505 has 12 MA's), (Start: 91 @21538 has 4 MA's), (114, 21598), (121, 21631), (128, 21667), (130, 21676), (169, 21814),

Gene: Iwokeuplikedis_31 Start: 22164, Stop: 22496, Start Num: 58

Candidate Starts for Iwokeuplikedis_31:

(Start: 58 @22164 has 27 MA's), (Start: 78 @22191 has 12 MA's), (80, 22197), (106, 22254), (116, 22287), (160, 22464), (162, 22467),

Gene: Izzy_26 Start: 21007, Stop: 21360, Start Num: 63

Candidate Starts for Izzy_26:

(Start: 63 @21007 has 52 MA's), (Start: 78 @21043 has 12 MA's), (Start: 91 @21076 has 4 MA's), (138, 21235),

Gene: JF2_30 Start: 22213, Stop: 22515, Start Num: 66

Candidate Starts for JF2_30:

(38, 22114), (Start: 49 @22171 has 3 MA's), (Start: 66 @22213 has 113 MA's), (116, 22321), (130, 22387), (138, 22399),

Gene: JF4_30 Start: 22213, Stop: 22515, Start Num: 66

Candidate Starts for JF4_30:

(38, 22114), (Start: 49 @22171 has 3 MA's), (Start: 66 @22213 has 113 MA's), (116, 22321), (130, 22387), (138, 22399),

Gene: JHC117_32 Start: 22961, Stop: 23263, Start Num: 66

Candidate Starts for JHC117_32:

(48, 22913), (Start: 49 @22916 has 3 MA's), (Start: 66 @22961 has 113 MA's), (Start: 78 @22991 has 12 MA's),

Gene: JSwag_32 Start: 21391, Stop: 21732, Start Num: 55

Candidate Starts for JSwag_32:

(Start: 55 @21391 has 109 MA's), (90, 21457), (95, 21469), (157, 21679), (167, 21715), (172, 21721),

Gene: Jabiru_27 Start: 21595, Stop: 21915, Start Num: 65

Candidate Starts for Jabiru_27:

(Start: 39 @21505 has 2 MA's), (Start: 65 @21595 has 36 MA's), (Start: 78 @21625 has 12 MA's), (80, 21631), (126, 21757), (138, 21790), (147, 21811), (154, 21844), (159, 21883), (170, 21907),

Gene: Jabith_30 Start: 23125, Stop: 23448, Start Num: 53

Candidate Starts for Jabith_30:

(Start: 53 @23125 has 29 MA's), (59, 23134), (95, 23194), (102, 23206), (121, 23248), (133, 23305),

Gene: JalFarm20_36 Start: 29841, Stop: 30215, Start Num: 45

Candidate Starts for JalFarm20_36:

(Start: 45 @29841 has 263 MA's), (Start: 50 @29856 has 1 MA's), (Start: 54 @29868 has 19 MA's), (126, 30075), (138, 30108),

Gene: James_33 Start: 28953, Stop: 29327, Start Num: 45

Candidate Starts for James_33:

(Start: 45 @28953 has 263 MA's), (Start: 46 @28956 has 18 MA's), (Start: 50 @28968 has 1 MA's), (Start: 54 @28980 has 19 MA's), (126, 29187), (138, 29220), (153, 29262),

Gene: Jamie19_27 Start: 23790, Stop: 24170, Start Num: 43

Candidate Starts for Jamie19_27:

(Start: 43 @23790 has 34 MA's), (122, 24000), (126, 24021),

Gene: Jant_34 Start: 28935, Stop: 29309, Start Num: 45

Candidate Starts for Jant_34:

(Start: 45 @28935 has 263 MA's), (Start: 50 @28950 has 1 MA's), (Start: 54 @28962 has 19 MA's), (126, 29169), (138, 29202),

Gene: Janus_26 Start: 21413, Stop: 21766, Start Num: 62

Candidate Starts for Janus_26:

(Start: 62 @21413 has 29 MA's), (70, 21428), (Start: 75 @21440 has 1 MA's), (82, 21455), (Start: 91 @21479 has 4 MA's), (98, 21494), (121, 21551), (131, 21599),

Gene: Jarcob_33 Start: 28989, Stop: 29363, Start Num: 45

Candidate Starts for Jarcob_33:

(Start: 45 @28989 has 263 MA's), (Start: 50 @29004 has 1 MA's), (Start: 54 @29016 has 19 MA's), (126, 29223), (137, 29253), (138, 29256), (153, 29298),

Gene: Jash_26 Start: 20960, Stop: 21313, Start Num: 63

Candidate Starts for Jash_26:

(Start: 63 @20960 has 52 MA's), (Start: 78 @20996 has 12 MA's), (Start: 91 @21029 has 4 MA's), (138, 21188),

Gene: Jebeks_29 Start: 25470, Stop: 25829, Start Num: 45

Candidate Starts for Jebeks_29:

(Start: 45 @25470 has 263 MA's), (77, 25557), (126, 25695), (138, 25728),

Gene: Jeeves_30 Start: 21688, Stop: 21981, Start Num: 55

Candidate Starts for Jeeves_30:

(31, 21529), (Start: 55 @21688 has 109 MA's), (Start: 65 @21697 has 36 MA's), (121, 21832),

Gene: Jeffabunny_33 Start: 22234, Stop: 22530, Start Num: 55
Candidate Starts for Jeffabunny_33:
(41, 22183), (Start: 55 @22234 has 109 MA's), (84, 22282), (126, 22387), (141, 22432),

Gene: JenCasNa_32 Start: 22962, Stop: 23264, Start Num: 66
Candidate Starts for JenCasNa_32:
(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has 12 MA's),

Gene: Jennelsea_27 Start: 24901, Stop: 25275, Start Num: 45
Candidate Starts for Jennelsea_27:
(Start: 45 @24901 has 263 MA's), (Start: 50 @24916 has 1 MA's), (Start: 54 @24928 has 19 MA's),
(126, 25135), (137, 25165), (138, 25168), (153, 25210),

Gene: JeppNRM_33 Start: 23046, Stop: 23348, Start Num: 66
Candidate Starts for JeppNRM_33:
(Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (116, 23154),

Gene: Jerm_32 Start: 22865, Stop: 23203, Start Num: 55
Candidate Starts for Jerm_32:
(Start: 55 @22865 has 109 MA's), (Start: 78 @22901 has 12 MA's), (80, 22907), (102, 22952), (138,
23075), (142, 23090), (160, 23174),

Gene: Jevington_27 Start: 21756, Stop: 22109, Start Num: 62
Candidate Starts for Jevington_27:
(Start: 62 @21756 has 29 MA's), (Start: 75 @21783 has 1 MA's), (Start: 78 @21789 has 12 MA's), (89,
21816), (98, 21837), (118, 21894), (131, 21963), (143, 21999), (158, 22065), (164, 22089),

Gene: JewelBug_33 Start: 22218, Stop: 22514, Start Num: 55
Candidate Starts for JewelBug_33:
(Start: 55 @22218 has 109 MA's), (87, 22272), (126, 22371), (141, 22416),

Gene: Jhitchelle_27 Start: 21730, Stop: 22116, Start Num: 63
Candidate Starts for Jhitchelle_27:
(Start: 63 @21730 has 52 MA's), (Start: 78 @21754 has 12 MA's), (Start: 91 @21787 has 4 MA's), (98,
21802), (100, 21805), (104, 21814), (114, 21847), (128, 21916), (176, 22099),

Gene: Jiawan_31 Start: 24044, Stop: 24412, Start Num: 56
Candidate Starts for Jiawan_31:
(40, 23984), (Start: 56 @24044 has 26 MA's), (79, 24080), (84, 24086), (92, 24107), (102, 24125),
(105, 24134), (130, 24233), (133, 24245), (136, 24266), (138, 24275),

Gene: Jinglebell_32 Start: 28974, Stop: 29348, Start Num: 45
Candidate Starts for Jinglebell_32:
(Start: 45 @28974 has 263 MA's), (Start: 46 @28977 has 18 MA's), (Start: 50 @28989 has 1 MA's),
(Start: 54 @29001 has 19 MA's), (126, 29208), (137, 29238), (138, 29241), (153, 29283),

Gene: Job42_37 Start: 30762, Stop: 31136, Start Num: 45
Candidate Starts for Job42_37:
(Start: 45 @30762 has 263 MA's), (47, 30768), (Start: 50 @30777 has 1 MA's), (Start: 54 @30789 has
19 MA's), (77, 30849), (126, 30996), (138, 31029), (153, 31071),

Gene: Jobu08_32 Start: 23035, Stop: 23337, Start Num: 66

Candidate Starts for Jobu08_32:

(48, 22987), (Start: 49 @22990 has 3 MA's), (Start: 66 @23035 has 113 MA's), (Start: 78 @23065 has 12 MA's), (83, 23074),

Gene: JoeyJr_33 Start: 28934, Stop: 29308, Start Num: 45

Candidate Starts for JoeyJr_33:

(Start: 45 @28934 has 263 MA's), (47, 28940), (Start: 50 @28949 has 1 MA's), (Start: 54 @28961 has 19 MA's), (126, 29168), (138, 29201), (153, 29243),

Gene: Jordennis_33 Start: 22203, Stop: 22499, Start Num: 55

Candidate Starts for Jordennis_33:

(Start: 55 @22203 has 109 MA's), (87, 22257), (126, 22356), (141, 22401),

Gene: Joselito_30 Start: 23073, Stop: 23396, Start Num: 53

Candidate Starts for Joselito_30:

(Start: 53 @23073 has 29 MA's), (59, 23082), (95, 23142), (102, 23154), (121, 23196), (133, 23253),

Gene: JoshKayV_32 Start: 22835, Stop: 23179, Start Num: 54

Candidate Starts for JoshKayV_32:

(32, 22676), (Start: 54 @22835 has 19 MA's), (Start: 60 @22844 has 17 MA's), (Start: 86 @22916 has 1 MA's), (94, 22925), (137, 23051),

Gene: Journey_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for Journey_30:

(Start: 43 @24740 has 34 MA's), (85, 24833), (93, 24851), (122, 24938), (126, 24959),

Gene: Journey13_28 Start: 21581, Stop: 21907, Start Num: 56

Candidate Starts for Journey13_28:

(Start: 56 @21581 has 26 MA's), (Start: 78 @21611 has 12 MA's), (80, 21617), (116, 21707), (138, 21785), (160, 21884),

Gene: Jovo_27 Start: 22414, Stop: 22734, Start Num: 65

Candidate Starts for Jovo_27:

(Start: 39 @22324 has 2 MA's), (Start: 65 @22414 has 36 MA's), (Start: 78 @22444 has 12 MA's), (80, 22450), (126, 22576), (137, 22606), (138, 22609), (147, 22630), (154, 22663), (161, 22711), (170, 22726),

Gene: Jsquared_29 Start: 21395, Stop: 21718, Start Num: 58

Candidate Starts for Jsquared_29:

(41, 21347), (Start: 58 @21395 has 27 MA's), (Start: 78 @21422 has 12 MA's), (80, 21428), (Start: 86 @21437 has 1 MA's),

Gene: Juice456_35 Start: 30062, Stop: 30436, Start Num: 45

Candidate Starts for Juice456_35:

(Start: 45 @30062 has 263 MA's), (Start: 50 @30077 has 1 MA's), (Start: 54 @30089 has 19 MA's), (126, 30296), (138, 30329),

Gene: JuicyJay_53 Start: 45516, Stop: 45890, Start Num: 52

Candidate Starts for JuicyJay_53:

(Start: 52 @45516 has 40 MA's), (69, 45558), (72, 45570), (117, 45681), (126, 45726), (138, 45768), (146, 45801), (147, 45810), (149, 45822),

Gene: Jung_28 Start: 25447, Stop: 25806, Start Num: 45

Candidate Starts for Jung_28:

(Start: 45 @25447 has 263 MA's), (77, 25534), (126, 25672), (138, 25705),

Gene: Juniormint_29 Start: 25523, Stop: 25882, Start Num: 45

Candidate Starts for Juniormint_29:

(Start: 45 @25523 has 263 MA's), (77, 25610), (126, 25748), (138, 25781),

Gene: Juniper1_33 Start: 28735, Stop: 29106, Start Num: 46

Candidate Starts for Juniper1_33:

(Start: 45 @28732 has 263 MA's), (Start: 46 @28735 has 18 MA's), (Start: 50 @28747 has 1 MA's),
(Start: 54 @28759 has 19 MA's), (126, 28966), (138, 28999), (153, 29041),

Gene: KADY_33 Start: 23002, Stop: 23352, Start Num: 49

Candidate Starts for KADY_33:

(48, 22999), (Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (Start: 78 @23077 has
12 MA's), (154, 23287),

Gene: Kachowdy_30 Start: 22578, Stop: 22880, Start Num: 66

Candidate Starts for Kachowdy_30:

(38, 22479), (Start: 49 @22536 has 3 MA's), (Start: 66 @22578 has 113 MA's), (80, 22614), (116,
22686),

Gene: Kaine_26 Start: 21981, Stop: 22325, Start Num: 63

Candidate Starts for Kaine_26:

(Start: 63 @21981 has 52 MA's), (Start: 78 @22005 has 12 MA's), (Start: 91 @22038 has 4 MA's), (98,
22053), (100, 22056), (104, 22065), (114, 22098), (128, 22167), (158, 22281),

Gene: Kalah2_51 Start: 44095, Stop: 44490, Start Num: 52

Candidate Starts for Kalah2_51:

(Start: 52 @44095 has 40 MA's), (69, 44137), (72, 44149), (117, 44260), (126, 44305), (138, 44347),
(146, 44380), (147, 44389), (149, 44401),

Gene: Kalb97_33 Start: 23046, Stop: 23348, Start Num: 66

Candidate Starts for Kalb97_33:

(Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (116, 23154),

Gene: Kalnoky_33 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Kalnoky_33:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: Kalpine_33 Start: 24261, Stop: 24569, Start Num: 86

Candidate Starts for Kalpine_33:

(31, 24057), (Start: 55 @24216 has 109 MA's), (Start: 86 @24261 has 1 MA's), (102, 24297), (105,
24306), (121, 24360), (133, 24417), (135, 24423), (141, 24459), (160, 24546),

Gene: Karhdo_33 Start: 28898, Stop: 29272, Start Num: 45

Candidate Starts for Karhdo_33:

(Start: 45 @28898 has 263 MA's), (Start: 46 @28901 has 18 MA's), (Start: 50 @28913 has 1 MA's),
(Start: 54 @28925 has 19 MA's), (126, 29132), (138, 29165), (153, 29207),

Gene: Kari_29 Start: 25482, Stop: 25841, Start Num: 45

Candidate Starts for Kari_29:

(Start: 45 @25482 has 263 MA's), (77, 25569), (126, 25707), (138, 25740),

Gene: KashFlow_44 Start: 37870, Stop: 38244, Start Num: 52

Candidate Starts for KashFlow_44:

(Start: 52 @37870 has 40 MA's), (Start: 68 @37909 has 1 MA's), (72, 37924), (77, 37933), (117, 38035), (126, 38080), (138, 38122), (146, 38155), (147, 38164), (149, 38176),

Gene: Katalie_25 Start: 20998, Stop: 21354, Start Num: 63

Candidate Starts for Katalie_25:

(Start: 63 @20998 has 52 MA's), (Start: 78 @21037 has 12 MA's), (Start: 91 @21070 has 4 MA's), (121, 21163), (136, 21220),

Gene: KatherineG_32 Start: 21527, Stop: 21868, Start Num: 55

Candidate Starts for KatherineG_32:

(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: Kazan_33 Start: 22219, Stop: 22515, Start Num: 55

Candidate Starts for Kazan_33:

(Start: 55 @22219 has 109 MA's), (87, 22273), (126, 22372), (141, 22417),

Gene: Kenuha5_30 Start: 27876, Stop: 28250, Start Num: 45

Candidate Starts for Kenuha5_30:

(Start: 45 @27876 has 263 MA's), (Start: 50 @27891 has 1 MA's), (Start: 54 @27903 has 19 MA's), (126, 28110), (138, 28143),

Gene: Kersh_32 Start: 29972, Stop: 30346, Start Num: 45

Candidate Starts for Kersh_32:

(Start: 45 @29972 has 263 MA's), (Start: 46 @29975 has 18 MA's), (Start: 50 @29987 has 1 MA's), (Start: 54 @29999 has 19 MA's), (126, 30206), (138, 30239), (153, 30281),

Gene: Kevin1_29 Start: 24131, Stop: 24568, Start Num: 45

Candidate Starts for Kevin1_29:

(25, 23837), (28, 23963), (35, 24041), (Start: 45 @24131 has 263 MA's), (72, 24209), (94, 24260), (99, 24269), (126, 24371),

Gene: Keziacharles14_30 Start: 22093, Stop: 22422, Start Num: 55

Candidate Starts for Keziacharles14_30:

(41, 22042), (Start: 55 @22093 has 109 MA's), (Start: 66 @22111 has 113 MA's), (79, 22144), (Start: 86 @22153 has 1 MA's), (100, 22186), (102, 22189), (105, 22198), (136, 22309), (139, 22321),

Gene: KilKor_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for KilKor_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Kimba_30 Start: 23128, Stop: 23448, Start Num: 55

Candidate Starts for Kimba_30:

(Start: 53 @23125 has 29 MA's), (Start: 55 @23128 has 109 MA's), (59, 23134), (95, 23194), (102, 23206), (121, 23248), (133, 23305),

Gene: Kimberlium_35 Start: 29890, Stop: 30264, Start Num: 45

Candidate Starts for Kimberlium_35:

(Start: 45 @29890 has 263 MA's), (Start: 46 @29893 has 18 MA's), (Start: 50 @29905 has 1 MA's), (Start: 54 @29917 has 19 MA's), (77, 29977), (126, 30124), (137, 30154), (138, 30157), (153, 30199),

Gene: Kimona_27 Start: 20435, Stop: 20734, Start Num: 67

Candidate Starts for Kimona_27:

(41, 20345), (Start: 55 @20402 has 109 MA's), (Start: 67 @20435 has 1 MA's), (81, 20468), (122, 20564), (138, 20618),

Gene: KingCyrus_32 Start: 22832, Stop: 23176, Start Num: 54

Candidate Starts for KingCyrus_32:

(32, 22673), (Start: 54 @22832 has 19 MA's), (Start: 60 @22841 has 17 MA's), (Start: 86 @22913 has 1 MA's), (94, 22922), (137, 23048),

Gene: KingJulian_33 Start: 28960, Stop: 29334, Start Num: 45

Candidate Starts for KingJulian_33:

(Start: 45 @28960 has 263 MA's), (Start: 50 @28975 has 1 MA's), (Start: 54 @28987 has 19 MA's), (126, 29194), (138, 29227),

Gene: KingMidas_35 Start: 30629, Stop: 31003, Start Num: 45

Candidate Starts for KingMidas_35:

(Start: 45 @30629 has 263 MA's), (Start: 50 @30644 has 1 MA's), (Start: 54 @30656 has 19 MA's), (126, 30863), (138, 30896), (153, 30938),

Gene: Kingsley_32 Start: 28585, Stop: 28959, Start Num: 45

Candidate Starts for Kingsley_32:

(Start: 45 @28585 has 263 MA's), (Start: 46 @28588 has 18 MA's), (Start: 50 @28600 has 1 MA's), (Start: 54 @28612 has 19 MA's), (77, 28672), (126, 28819), (138, 28852),

Gene: Kinmap_31 Start: 22035, Stop: 22355, Start Num: 55

Candidate Starts for Kinmap_31:

(Start: 55 @22035 has 109 MA's), (Start: 91 @22092 has 4 MA's), (102, 22113), (142, 22248),

Gene: Kipper29_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for Kipper29_33:

(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: Klein_51 Start: 43328, Stop: 43702, Start Num: 52

Candidate Starts for Klein_51:

(Start: 52 @43328 has 40 MA's), (69, 43370), (72, 43382), (117, 43493), (126, 43538), (138, 43580), (146, 43613), (147, 43622), (149, 43634),

Gene: Klodlith_30 Start: 21951, Stop: 22319, Start Num: 55

Candidate Starts for Klodlith_30:

(31, 21792), (41, 21900), (Start: 55 @21951 has 109 MA's), (Start: 86 @21996 has 1 MA's), (95, 22020), (102, 22032), (130, 22140), (133, 22152), (138, 22182), (141, 22194), (147, 22203), (174, 22314),

Gene: Koduck_30 Start: 21634, Stop: 21939, Start Num: 55

Candidate Starts for Koduck_30:

(41, 21586), (Start: 55 @21634 has 109 MA's), (Start: 78 @21670 has 12 MA's), (140, 21838), (147, 21850), (152, 21853), (153, 21871),

Gene: Koella_27 Start: 24913, Stop: 25287, Start Num: 45

Candidate Starts for Koella_27:

(Start: 45 @24913 has 263 MA's), (Start: 50 @24928 has 1 MA's), (Start: 54 @24940 has 19 MA's), (126, 25147), (137, 25177), (138, 25180), (153, 25222),

Gene: Koko_33 Start: 22551, Stop: 22847, Start Num: 55

Candidate Starts for Koko_33:

(41, 22500), (Start: 55 @22551 has 109 MA's), (126, 22704), (141, 22749),

Gene: Krakatau_34 Start: 29459, Stop: 29833, Start Num: 45

Candidate Starts for Krakatau_34:

(Start: 45 @29459 has 263 MA's), (Start: 46 @29462 has 18 MA's), (Start: 50 @29474 has 1 MA's),
(Start: 54 @29486 has 19 MA's), (126, 29693), (138, 29726),

Gene: KristaRAM_34 Start: 29585, Stop: 29959, Start Num: 45

Candidate Starts for KristaRAM_34:

(Start: 45 @29585 has 263 MA's), (Start: 50 @29600 has 1 MA's), (Start: 54 @29612 has 19 MA's),
(126, 29819), (138, 29852),

Gene: Ksquared_29 Start: 25501, Stop: 25860, Start Num: 45

Candidate Starts for Ksquared_29:

(Start: 45 @25501 has 263 MA's), (77, 25588), (126, 25726), (138, 25759),

Gene: L5_30 Start: 21588, Stop: 21893, Start Num: 55

Candidate Starts for L5_30:

(41, 21540), (Start: 55 @21588 has 109 MA's), (Start: 78 @21624 has 12 MA's), (140, 21792), (147,
21804), (152, 21807), (153, 21825),

Gene: LBerry_32 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for LBerry_32:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has
12 MA's),

Gene: LadyBird_30 Start: 22403, Stop: 22726, Start Num: 58

Candidate Starts for LadyBird_30:

(31, 22244), (Start: 58 @22403 has 27 MA's), (Start: 78 @22430 has 12 MA's), (80, 22436), (105,
22490), (120, 22535), (138, 22604), (142, 22619), (160, 22703),

Gene: Lambert1_31 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for Lambert1_31:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's),
(83, 23098), (102, 23140), (116, 23167),

Gene: Langerak_29 Start: 25469, Stop: 25828, Start Num: 45

Candidate Starts for Langerak_29:

(Start: 45 @25469 has 263 MA's), (77, 25556), (126, 25694), (138, 25727),

Gene: Lannister_27 Start: 21693, Stop: 21974, Start Num: 91

Candidate Starts for Lannister_27:

(Start: 63 @21624 has 52 MA's), (Start: 65 @21630 has 36 MA's), (Start: 78 @21660 has 12 MA's),
(Start: 91 @21693 has 4 MA's), (104, 21720), (136, 21843), (138, 21852),

Gene: Larenn_31 Start: 22700, Stop: 23023, Start Num: 58

Candidate Starts for Larenn_31:

(31, 22541), (Start: 58 @22700 has 27 MA's), (Start: 78 @22727 has 12 MA's), (80, 22733), (105,
22787), (138, 22901), (160, 23000),

Gene: LarryKay_32 Start: 23049, Stop: 23354, Start Num: 66
Candidate Starts for LarryKay_32:
(48, 23001), (Start: 49 @23004 has 3 MA's), (Start: 66 @23049 has 113 MA's), (Start: 78 @23079 has 12 MA's), (154, 23289),

Gene: LastJedi_27 Start: 24944, Stop: 25318, Start Num: 45
Candidate Starts for LastJedi_27:
(Start: 45 @24944 has 263 MA's), (Start: 50 @24959 has 1 MA's), (Start: 54 @24971 has 19 MA's), (126, 25178), (137, 25208), (138, 25211), (153, 25253),

Gene: LastResort_32 Start: 21408, Stop: 21749, Start Num: 55
Candidate Starts for LastResort_32:
(Start: 55 @21408 has 109 MA's), (90, 21474), (95, 21486), (157, 21696), (167, 21732), (172, 21738),

Gene: Latretium_34 Start: 29544, Stop: 29918, Start Num: 45
Candidate Starts for Latretium_34:
(Start: 45 @29544 has 263 MA's), (Start: 50 @29559 has 1 MA's), (Start: 54 @29571 has 19 MA's), (126, 29778), (138, 29811),

Gene: Legacy_25 Start: 20565, Stop: 20918, Start Num: 63
Candidate Starts for Legacy_25:
(Start: 63 @20565 has 52 MA's), (Start: 78 @20601 has 12 MA's), (Start: 91 @20634 has 4 MA's), (136, 20784), (138, 20793), (140, 20802), (154, 20847),

Gene: Leogania_32 Start: 24566, Stop: 24916, Start Num: 54
Candidate Starts for Leogania_32:
(Start: 54 @24566 has 19 MA's), (82, 24638), (87, 24650), (120, 24716), (137, 24782), (153, 24827),

Gene: Leozinho_35 Start: 29187, Stop: 29561, Start Num: 45
Candidate Starts for Leozinho_35:
(Start: 45 @29187 has 263 MA's), (Start: 50 @29202 has 1 MA's), (Start: 54 @29214 has 19 MA's), (126, 29421), (138, 29454),

Gene: Leperchaun_33 Start: 28842, Stop: 29213, Start Num: 46
Candidate Starts for Leperchaun_33:
(Start: 45 @28839 has 263 MA's), (Start: 46 @28842 has 18 MA's), (Start: 50 @28854 has 1 MA's), (Start: 54 @28866 has 19 MA's), (126, 29073), (138, 29106), (153, 29148),

Gene: Lev2_27 Start: 22046, Stop: 22366, Start Num: 65
Candidate Starts for Lev2_27:
(Start: 39 @21956 has 2 MA's), (Start: 65 @22046 has 36 MA's), (Start: 78 @22076 has 12 MA's), (80, 22082), (126, 22208), (137, 22238), (138, 22241), (147, 22262), (154, 22295), (161, 22343), (170, 22358),

Gene: Leviathan_32 Start: 22921, Stop: 23259, Start Num: 55
Candidate Starts for Leviathan_32:
(Start: 55 @22921 has 109 MA's), (Start: 78 @22957 has 12 MA's), (80, 22963), (105, 23017), (138, 23131), (142, 23146), (160, 23230),

Gene: Leviticus_25 Start: 20594, Stop: 20947, Start Num: 63
Candidate Starts for Leviticus_25:
(Start: 63 @20594 has 52 MA's), (Start: 78 @20630 has 12 MA's), (Start: 91 @20663 has 4 MA's), (136, 20813), (138, 20822), (140, 20831), (154, 20876),

Gene: Lika_25 Start: 21279, Stop: 21632, Start Num: 63

Candidate Starts for Lika_25:

(Start: 63 @21279 has 52 MA's), (Start: 91 @21351 has 4 MA's), (121, 21444), (130, 21489), (136, 21501), (157, 21588),

Gene: LilMoolah_33 Start: 29037, Stop: 29411, Start Num: 45

Candidate Starts for LilMoolah_33:

(Start: 45 @29037 has 263 MA's), (Start: 50 @29052 has 1 MA's), (Start: 54 @29064 has 19 MA's), (126, 29271), (137, 29301), (138, 29304), (153, 29346),

Gene: LilTurb_32 Start: 22924, Stop: 23262, Start Num: 55

Candidate Starts for LilTurb_32:

(Start: 55 @22924 has 109 MA's), (Start: 78 @22960 has 12 MA's), (80, 22966), (102, 23011), (138, 23134), (142, 23149), (160, 23233),

Gene: Lilbunny_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for Lilbunny_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: Lilith_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for Lilith_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has 12 MA's),

Gene: Lilleskat_30 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for Lilleskat_30:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239), (147, 24260),

Gene: LionsBait_31 Start: 24193, Stop: 24477, Start Num: 76

Candidate Starts for LionsBait_31:

(Start: 74 @24190 has 17 MA's), (76, 24193), (138, 24355), (160, 24454),

Gene: LittleCherry_27 Start: 22255, Stop: 22545, Start Num: 78

Candidate Starts for LittleCherry_27:

(Start: 39 @22135 has 2 MA's), (Start: 65 @22225 has 36 MA's), (Start: 78 @22255 has 12 MA's), (80, 22261), (121, 22363), (126, 22387), (130, 22408), (138, 22420), (147, 22441), (154, 22474), (161, 22522), (170, 22537),

Gene: LittleE_55 Start: 43568, Stop: 43954, Start Num: 52

Candidate Starts for LittleE_55:

(Start: 52 @43568 has 40 MA's), (Start: 68 @43607 has 1 MA's), (72, 43622), (77, 43631), (126, 43778), (131, 43802), (138, 43820), (145, 43850), (147, 43862),

Gene: LittleShirley_36 Start: 30407, Stop: 30778, Start Num: 46

Candidate Starts for LittleShirley_36:

(Start: 45 @30404 has 263 MA's), (Start: 46 @30407 has 18 MA's), (Start: 50 @30419 has 1 MA's), (Start: 54 @30431 has 19 MA's), (126, 30638), (138, 30671),

Gene: Lizziana_33 Start: 28912, Stop: 29286, Start Num: 45

Candidate Starts for Lizziana_33:

(Start: 45 @28912 has 263 MA's), (Start: 50 @28927 has 1 MA's), (Start: 54 @28939 has 19 MA's), (126, 29146), (137, 29176), (138, 29179), (153, 29221),

Gene: Llama_33 Start: 28973, Stop: 29347, Start Num: 45

Candidate Starts for Llama_33:

(Start: 45 @28973 has 263 MA's), (Start: 46 @28976 has 18 MA's), (Start: 50 @28988 has 1 MA's), (Start: 54 @29000 has 19 MA's), (126, 29207), (137, 29237), (138, 29240), (153, 29282),

Gene: Llij_33 Start: 28744, Stop: 29118, Start Num: 45

Candidate Starts for Llij_33:

(Start: 45 @28744 has 263 MA's), (Start: 46 @28747 has 18 MA's), (Start: 50 @28759 has 1 MA's), (Start: 54 @28771 has 19 MA's), (126, 28978), (138, 29011), (153, 29053),

Gene: Lokk_33 Start: 24070, Stop: 24357, Start Num: 74

Candidate Starts for Lokk_33:

(37, 23911), (Start: 74 @24070 has 17 MA's), (138, 24235), (147, 24256), (160, 24334),

Gene: LoneWolf_31 Start: 23601, Stop: 23969, Start Num: 56

Candidate Starts for LoneWolf_31:

(Start: 43 @23559 has 34 MA's), (44, 23565), (Start: 56 @23601 has 26 MA's), (95, 23670), (100, 23679), (102, 23682), (105, 23691), (130, 23790), (138, 23832), (141, 23844), (153, 23874),

Gene: Loofah_26 Start: 21398, Stop: 21718, Start Num: 91

Candidate Starts for Loofah_26:

(Start: 64 @21335 has 1 MA's), (70, 21347), (Start: 75 @21359 has 1 MA's), (Start: 91 @21398 has 4 MA's), (102, 21419), (114, 21458), (130, 21536), (138, 21557), (158, 21662), (166, 21692),

Gene: Looper_33 Start: 21405, Stop: 21746, Start Num: 55

Candidate Starts for Looper_33:

(Start: 55 @21405 has 109 MA's), (90, 21471), (95, 21483), (157, 21693), (167, 21729), (172, 21735),

Gene: LordVader_30 Start: 23943, Stop: 24374, Start Num: 45

Candidate Starts for LordVader_30:

(28, 23775), (35, 23853), (Start: 45 @23943 has 263 MA's), (Start: 50 @23961 has 1 MA's), (70, 24018), (99, 24075), (120, 24135), (124, 24168), (130, 24198), (139, 24231),

Gene: Lorde_35 Start: 29001, Stop: 29375, Start Num: 45

Candidate Starts for Lorde_35:

(Start: 45 @29001 has 263 MA's), (94, 29130), (99, 29139), (126, 29235), (138, 29268),

Gene: Lorelei_25 Start: 21248, Stop: 21601, Start Num: 63

Candidate Starts for Lorelei_25:

(Start: 63 @21248 has 52 MA's), (Start: 91 @21320 has 4 MA's), (114, 21380), (121, 21413), (136, 21470), (157, 21557), (158, 21563),

Gene: Louie6_32 Start: 23050, Stop: 23352, Start Num: 66

Candidate Starts for Louie6_32:

(48, 23002), (Start: 49 @23005 has 3 MA's), (Start: 66 @23050 has 113 MA's), (Start: 78 @23080 has 12 MA's),

Gene: Lowa_32 Start: 22955, Stop: 23257, Start Num: 66

Candidate Starts for Lowa_32:

(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has 12 MA's),

Gene: Luchador_32 Start: 22915, Stop: 23271, Start Num: 55

Candidate Starts for Luchador_32:

(31, 22756), (Start: 55 @22915 has 109 MA's), (79, 22951), (95, 22984), (105, 23005), (130, 23104), (133, 23116), (138, 23146), (147, 23167),

Gene: Lucia_35 Start: 28875, Stop: 29249, Start Num: 45

Candidate Starts for Lucia_35:

(Start: 45 @28875 has 263 MA's), (Start: 46 @28878 has 18 MA's), (Start: 50 @28890 has 1 MA's), (Start: 54 @28902 has 19 MA's), (77, 28962), (126, 29109), (138, 29142), (153, 29184),

Gene: Lucivia_30 Start: 23122, Stop: 23445, Start Num: 53

Candidate Starts for Lucivia_30:

(Start: 53 @23122 has 29 MA's), (59, 23131), (95, 23191), (102, 23203), (121, 23245), (133, 23302),

Gene: Lucky2013_50 Start: 40559, Stop: 40945, Start Num: 52

Candidate Starts for Lucky2013_50:

(Start: 52 @40559 has 40 MA's), (Start: 68 @40598 has 1 MA's), (72, 40613), (77, 40622), (126, 40769), (131, 40793), (138, 40811), (145, 40841), (147, 40853),

Gene: Lucyedi_31 Start: 23189, Stop: 23464, Start Num: 55

Candidate Starts for Lucyedi_31:

(Start: 55 @23189 has 109 MA's), (80, 23231), (87, 23243), (Start: 91 @23255 has 4 MA's), (105, 23285), (121, 23318), (126, 23342),

Gene: LugYA_34 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for LugYA_34:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: LunaBlu_36 Start: 29776, Stop: 30150, Start Num: 45

Candidate Starts for LunaBlu_36:

(Start: 45 @29776 has 263 MA's), (Start: 50 @29791 has 1 MA's), (Start: 54 @29803 has 19 MA's), (126, 30010), (138, 30043),

Gene: MA5_30 Start: 22141, Stop: 22443, Start Num: 66

Candidate Starts for MA5_30:

(Start: 49 @22099 has 3 MA's), (Start: 66 @22141 has 113 MA's), (80, 22177), (138, 22327),

Gene: MK4_30 Start: 22447, Stop: 22749, Start Num: 66

Candidate Starts for MK4_30:

(38, 22348), (Start: 49 @22405 has 3 MA's), (Start: 66 @22447 has 113 MA's), (116, 22555), (130, 22621), (138, 22633),

Gene: MaCh_30 Start: 23064, Stop: 23387, Start Num: 53

Candidate Starts for MaCh_30:

(Start: 53 @23064 has 29 MA's), (59, 23073), (95, 23133), (102, 23145), (121, 23187), (133, 23244),

Gene: Mabel_30 Start: 23128, Stop: 23448, Start Num: 55

Candidate Starts for Mabel_30:

(Start: 53 @23125 has 29 MA's), (Start: 55 @23128 has 109 MA's), (59, 23134), (95, 23194), (102, 23206), (121, 23248), (133, 23305),

Gene: MadMarie_32 Start: 22965, Stop: 23267, Start Num: 66

Candidate Starts for MadMarie_32:

(48, 22917), (Start: 49 @22920 has 3 MA's), (Start: 66 @22965 has 113 MA's), (Start: 78 @22995 has 12 MA's),

Gene: MadMen_31 Start: 28197, Stop: 28571, Start Num: 45

Candidate Starts for MadMen_31:

(Start: 45 @28197 has 263 MA's), (Start: 50 @28212 has 1 MA's), (Start: 54 @28224 has 19 MA's), (94, 28326), (126, 28431), (138, 28464),

Gene: Madiba_31 Start: 27677, Stop: 28048, Start Num: 46

Candidate Starts for Madiba_31:

(Start: 45 @27674 has 263 MA's), (Start: 46 @27677 has 18 MA's), (Start: 50 @27689 has 1 MA's), (Start: 54 @27701 has 19 MA's), (126, 27908), (138, 27941), (153, 27983),

Gene: Magsby_30 Start: 24737, Stop: 25117, Start Num: 43

Candidate Starts for Magsby_30:

(Start: 43 @24737 has 34 MA's), (122, 24947), (126, 24968),

Gene: Mahavrat_33 Start: 28804, Stop: 29178, Start Num: 45

Candidate Starts for Mahavrat_33:

(Start: 45 @28804 has 263 MA's), (Start: 46 @28807 has 18 MA's), (Start: 50 @28819 has 1 MA's), (Start: 54 @28831 has 19 MA's), (77, 28891), (126, 29038), (138, 29071), (153, 29113),

Gene: Mainiac_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for Mainiac_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has 12 MA's),

Gene: Majeke_29 Start: 25491, Stop: 25850, Start Num: 45

Candidate Starts for Majeke_29:

(Start: 45 @25491 has 263 MA's), (77, 25578), (126, 25716), (138, 25749),

Gene: MajorMajor_29 Start: 21322, Stop: 21645, Start Num: 58

Candidate Starts for MajorMajor_29:

(41, 21274), (Start: 58 @21322 has 27 MA's), (Start: 78 @21349 has 12 MA's), (80, 21355), (Start: 86 @21364 has 1 MA's), (119, 21451),

Gene: Malec_31 Start: 22705, Stop: 23028, Start Num: 58

Candidate Starts for Malec_31:

(31, 22546), (Start: 58 @22705 has 27 MA's), (Start: 78 @22732 has 12 MA's), (80, 22738), (Start: 86 @22747 has 1 MA's), (105, 22792), (137, 22903), (160, 23005),

Gene: Malinsilva_34 Start: 22955, Stop: 23257, Start Num: 66

Candidate Starts for Malinsilva_34:

(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has 12 MA's),

Gene: Malithi_29 Start: 25410, Stop: 25769, Start Num: 45

Candidate Starts for Malithi_29:

(Start: 45 @25410 has 263 MA's), (77, 25497), (126, 25635), (138, 25668),

Gene: Maminiaina_31 Start: 23549, Stop: 23914, Start Num: 55

Candidate Starts for Maminiaina_31:

(31, 23390), (Start: 55 @23549 has 109 MA's), (79, 23585), (84, 23591), (95, 23618), (102, 23630), (130, 23738), (133, 23750), (154, 23834),

Gene: Mandlovu_34 Start: 29530, Stop: 29904, Start Num: 45

Candidate Starts for Mandlovu_34:

(Start: 45 @29530 has 263 MA's), (Start: 50 @29545 has 1 MA's), (Start: 54 @29557 has 19 MA's), (126, 29764), (138, 29797),

Gene: Maneekul_24 Start: 20735, Stop: 21091, Start Num: 60

Candidate Starts for Maneekul_24:

(Start: 60 @20735 has 17 MA's), (Start: 78 @20774 has 12 MA's), (Start: 91 @20807 has 4 MA's), (121, 20900), (136, 20957), (138, 20966), (171, 21083),

Gene: Mangethe_29 Start: 25491, Stop: 25850, Start Num: 45

Candidate Starts for Mangethe_29:

(Start: 45 @25491 has 263 MA's), (77, 25578), (126, 25716), (138, 25749),

Gene: Mantra_33 Start: 28863, Stop: 29237, Start Num: 45

Candidate Starts for Mantra_33:

(Start: 45 @28863 has 263 MA's), (Start: 46 @28866 has 18 MA's), (Start: 50 @28878 has 1 MA's), (Start: 54 @28890 has 19 MA's), (126, 29097), (138, 29130),

Gene: Manu_33 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Manu_33:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: MarQuardt_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for MarQuardt_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's), (87, 23012),

Gene: Marav_28 Start: 22095, Stop: 22448, Start Num: 62

Candidate Starts for Marav_28:

(Start: 62 @22095 has 29 MA's), (Start: 75 @22122 has 1 MA's), (Start: 78 @22128 has 12 MA's), (89, 22155), (98, 22176), (118, 22233), (119, 22239), (131, 22302), (158, 22404), (164, 22428),

Gene: Maravista_33 Start: 28694, Stop: 29068, Start Num: 45

Candidate Starts for Maravista_33:

(Start: 45 @28694 has 263 MA's), (Start: 50 @28709 has 1 MA's), (Start: 54 @28721 has 19 MA's), (126, 28928), (137, 28958), (138, 28961), (153, 29003),

Gene: Marchesa_30 Start: 22576, Stop: 22878, Start Num: 66

Candidate Starts for Marchesa_30:

(38, 22477), (Start: 49 @22534 has 3 MA's), (Start: 66 @22576 has 113 MA's), (80, 22612), (116, 22684),

Gene: Margo_31 Start: 23085, Stop: 23387, Start Num: 66

Candidate Starts for Margo_31:

(Start: 49 @23040 has 3 MA's), (Start: 66 @23085 has 113 MA's), (Start: 78 @23115 has 12 MA's), (83, 23124), (102, 23166), (116, 23193),

Gene: Marie_32 Start: 22962, Stop: 23264, Start Num: 66

Candidate Starts for Marie_32:

(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has 12 MA's),

Gene: Marius_33 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Marius_33:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: Marker_34 Start: 28630, Stop: 29004, Start Num: 45

Candidate Starts for Marker_34:

(Start: 45 @28630 has 263 MA's), (47, 28636), (Start: 50 @28645 has 1 MA's), (Start: 54 @28657 has 19 MA's), (77, 28717), (126, 28864), (138, 28897),

Gene: Marleymoo_52 Start: 43437, Stop: 43823, Start Num: 52

Candidate Starts for Marleymoo_52:

(Start: 52 @43437 has 40 MA's), (Start: 68 @43476 has 1 MA's), (72, 43491), (77, 43500), (126, 43647), (131, 43671), (138, 43689), (145, 43719), (147, 43731),

Gene: Martik_33 Start: 28939, Stop: 29313, Start Num: 45

Candidate Starts for Martik_33:

(Start: 45 @28939 has 263 MA's), (Start: 50 @28954 has 1 MA's), (Start: 54 @28966 has 19 MA's), (126, 29173), (137, 29203), (138, 29206), (153, 29248),

Gene: MarysWell_26 Start: 22303, Stop: 22593, Start Num: 78

Candidate Starts for MarysWell_26:

(29, 22033), (Start: 39 @22183 has 2 MA's), (Start: 65 @22273 has 36 MA's), (Start: 78 @22303 has 12 MA's), (80, 22309), (126, 22435), (137, 22465), (138, 22468), (147, 22489), (170, 22585),

Gene: Mattes_33 Start: 28953, Stop: 29327, Start Num: 45

Candidate Starts for Mattes_33:

(Start: 45 @28953 has 263 MA's), (Start: 46 @28956 has 18 MA's), (Start: 50 @28968 has 1 MA's), (Start: 54 @28980 has 19 MA's), (126, 29187), (138, 29220), (153, 29262),

Gene: McFly_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for McFly_33:

(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: Medindi_34 Start: 29341, Stop: 29715, Start Num: 45

Candidate Starts for Medindi_34:

(Start: 45 @29341 has 263 MA's), (Start: 50 @29356 has 1 MA's), (Start: 54 @29368 has 19 MA's), (126, 29575), (138, 29608),

Gene: MegTheThird_30 Start: 21950, Stop: 22312, Start Num: 55

Candidate Starts for MegTheThird_30:

(Start: 55 @21950 has 109 MA's), (Start: 91 @22010 has 4 MA's), (100, 22028), (102, 22031), (130, 22139), (133, 22151), (138, 22181), (141, 22193), (147, 22202),

Gene: Megiddo_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for Megiddo_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Melissauren88_33 Start: 28906, Stop: 29280, Start Num: 45

Candidate Starts for Melissauren88_33:

(Start: 45 @28906 has 263 MA's), (Start: 50 @28921 has 1 MA's), (Start: 54 @28933 has 19 MA's), (126, 29140), (138, 29173),

Gene: Melville_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Melville_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: Methuselah_31 Start: 23046, Stop: 23348, Start Num: 66

Candidate Starts for Methuselah_31:

(48, 22998), (Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (Start: 78 @23076 has 12 MA's),

Gene: MiaZeal_50 Start: 40234, Stop: 40620, Start Num: 52

Candidate Starts for MiaZeal_50:

(Start: 52 @40234 has 40 MA's), (Start: 68 @40273 has 1 MA's), (72, 40288), (77, 40297), (126, 40444), (131, 40468), (138, 40486), (145, 40516), (147, 40528),

Gene: Micasa_27 Start: 22199, Stop: 22519, Start Num: 65

Candidate Starts for Micasa_27:

(Start: 39 @22109 has 2 MA's), (Start: 65 @22199 has 36 MA's), (Start: 78 @22229 has 12 MA's), (80, 22235), (121, 22337), (126, 22361), (137, 22391), (138, 22394), (147, 22415), (170, 22511),

Gene: MichelleMyBell_28 Start: 23728, Stop: 24108, Start Num: 43

Candidate Starts for MichelleMyBell_28:

(Start: 43 @23728 has 34 MA's), (122, 23938), (126, 23959),

Gene: Microwolf_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for Microwolf_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's),

Gene: MiculUcigas_30 Start: 22445, Stop: 22774, Start Num: 58

Candidate Starts for MiculUcigas_30:

(31, 22286), (Start: 58 @22445 has 27 MA's), (Start: 78 @22472 has 12 MA's), (80, 22478), (105, 22532), (138, 22646), (142, 22661), (160, 22745),

Gene: Midas2_27 Start: 22303, Stop: 22593, Start Num: 78

Candidate Starts for Midas2_27:

(Start: 39 @22183 has 2 MA's), (Start: 65 @22273 has 36 MA's), (Start: 78 @22303 has 12 MA's), (80, 22309), (121, 22411), (126, 22435), (130, 22456), (138, 22468), (147, 22489), (154, 22522), (161, 22570), (170, 22585),

Gene: Miko_33 Start: 24038, Stop: 24325, Start Num: 74

Candidate Starts for Miko_33:

(37, 23879), (Start: 74 @24038 has 17 MA's), (138, 24203), (147, 24224),

Gene: MilanaBonita_27 Start: 24837, Stop: 25211, Start Num: 45

Candidate Starts for MilanaBonita_27:

(15, 24318), (Start: 45 @24837 has 263 MA's), (Start: 50 @24852 has 1 MA's), (Start: 54 @24864 has 19 MA's), (126, 25071), (138, 25104),

Gene: Milcery_27 Start: 22229, Stop: 22549, Start Num: 65

Candidate Starts for Milcery_27:

(Start: 39 @22139 has 2 MA's), (Start: 65 @22229 has 36 MA's), (Start: 78 @22259 has 12 MA's), (80, 22265), (121, 22367), (126, 22391), (130, 22412), (138, 22424), (147, 22445), (154, 22478), (161, 22526), (170, 22541),

Gene: MilleniumForce_34 Start: 29698, Stop: 30072, Start Num: 45

Candidate Starts for MilleniumForce_34:

(Start: 45 @29698 has 263 MA's), (Start: 50 @29713 has 1 MA's), (Start: 54 @29725 has 19 MA's), (126, 29932), (138, 29965),

Gene: MinecraftSteve_33 Start: 21527, Stop: 21868, Start Num: 55

Candidate Starts for MinecraftSteve_33:

(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: Minerva_57 Start: 45156, Stop: 45551, Start Num: 52

Candidate Starts for Minerva_57:

(Start: 52 @45156 has 40 MA's), (69, 45198), (72, 45210), (117, 45321), (126, 45366), (138, 45408), (146, 45441), (147, 45450), (149, 45462),

Gene: MinionDave_36 Start: 29935, Stop: 30309, Start Num: 45

Candidate Starts for MinionDave_36:

(Start: 45 @29935 has 263 MA's), (Start: 50 @29950 has 1 MA's), (Start: 54 @29962 has 19 MA's), (126, 30169), (138, 30202),

Gene: Minispark_28 Start: 21862, Stop: 22227, Start Num: 55

Candidate Starts for Minispark_28:

(41, 21811), (Start: 55 @21862 has 109 MA's), (92, 21925), (95, 21931), (97, 21934), (131, 22054), (136, 22084), (138, 22093), (141, 22105),

Gene: Minnie_35 Start: 29748, Stop: 30122, Start Num: 45

Candidate Starts for Minnie_35:

(Start: 45 @29748 has 263 MA's), (47, 29754), (Start: 50 @29763 has 1 MA's), (Start: 54 @29775 has 19 MA's), (77, 29835), (126, 29982), (138, 30015), (153, 30057),

Gene: Misha28_34 Start: 28648, Stop: 29022, Start Num: 45

Candidate Starts for Misha28_34:

(Start: 45 @28648 has 263 MA's), (Start: 50 @28663 has 1 MA's), (Start: 54 @28675 has 19 MA's), (77, 28735), (126, 28882), (138, 28915),

Gene: Misomonster_34 Start: 23046, Stop: 23351, Start Num: 66

Candidate Starts for Misomonster_34:

(48, 22998), (Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (Start: 78 @23076 has 12 MA's), (154, 23286),

Gene: MissWhite_30 Start: 21529, Stop: 21855, Start Num: 56

Candidate Starts for MissWhite_30:

(Start: 56 @21529 has 26 MA's), (Start: 58 @21532 has 27 MA's), (Start: 78 @21559 has 12 MA's), (80, 21565), (100, 21607), (116, 21655), (138, 21733), (160, 21832),

Gene: MisterCuddles_35 Start: 29802, Stop: 30176, Start Num: 45
Candidate Starts for MisterCuddles_35:
(Start: 45 @29802 has 263 MA's), (Start: 50 @29817 has 1 MA's), (Start: 54 @29829 has 19 MA's),
(126, 30036), (138, 30069), (153, 30111),

Gene: Modragons_33 Start: 28818, Stop: 29192, Start Num: 45
Candidate Starts for Modragons_33:
(Start: 45 @28818 has 263 MA's), (Start: 46 @28821 has 18 MA's), (Start: 50 @28833 has 1 MA's),
(Start: 54 @28845 has 19 MA's), (126, 29052), (137, 29082), (138, 29085), (153, 29127),

Gene: MoneyMay_32 Start: 22962, Stop: 23264, Start Num: 66
Candidate Starts for MoneyMay_32:
(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has
12 MA's),

Gene: Montavir_31 Start: 22963, Stop: 23265, Start Num: 66
Candidate Starts for Montavir_31:
(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has
12 MA's),

Gene: Moonbeam_34 Start: 29452, Stop: 29826, Start Num: 45
Candidate Starts for Moonbeam_34:
(Start: 45 @29452 has 263 MA's), (Start: 50 @29467 has 1 MA's), (Start: 54 @29479 has 19 MA's),
(126, 29686), (138, 29719),

Gene: Mova_34 Start: 28587, Stop: 28961, Start Num: 45
Candidate Starts for Mova_34:
(Start: 45 @28587 has 263 MA's), (Start: 50 @28602 has 1 MA's), (Start: 54 @28614 has 19 MA's),
(126, 28821), (138, 28854),

Gene: Mozy_35 Start: 29643, Stop: 30017, Start Num: 45
Candidate Starts for Mozy_35:
(Start: 45 @29643 has 263 MA's), (Start: 46 @29646 has 18 MA's), (Start: 50 @29658 has 1 MA's),
(Start: 54 @29670 has 19 MA's), (77, 29730), (126, 29877), (138, 29910), (153, 29952),

Gene: Ms6_27 Start: 24369, Stop: 24743, Start Num: 45
Candidate Starts for Ms6_27:
(Start: 45 @24369 has 263 MA's), (Start: 50 @24384 has 1 MA's), (Start: 54 @24396 has 19 MA's),
(126, 24603), (138, 24636),

Gene: MuchMore_34 Start: 22955, Stop: 23257, Start Num: 66
Candidate Starts for MuchMore_34:
(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has
12 MA's),

Gene: MulchExplorer_37 Start: 29889, Stop: 30263, Start Num: 45
Candidate Starts for MulchExplorer_37:
(Start: 45 @29889 has 263 MA's), (Start: 46 @29892 has 18 MA's), (Start: 50 @29904 has 1 MA's),
(Start: 54 @29916 has 19 MA's), (77, 29976), (126, 30123), (137, 30153), (138, 30156), (153, 30198),

Gene: MulchSalad_32 Start: 25650, Stop: 26024, Start Num: 45
Candidate Starts for MulchSalad_32:

(Start: 45 @25650 has 263 MA's), (Start: 50 @25665 has 1 MA's), (Start: 54 @25677 has 19 MA's), (126, 25884), (138, 25917),

Gene: Mulciber_30 Start: 23067, Stop: 23390, Start Num: 53

Candidate Starts for Mulciber_30:

(Start: 53 @23067 has 29 MA's), (59, 23076), (95, 23136), (102, 23148), (121, 23190), (133, 23247),

Gene: Munch_30 Start: 23073, Stop: 23396, Start Num: 53

Candidate Starts for Munch_30:

(Start: 53 @23073 has 29 MA's), (59, 23082), (95, 23142), (102, 23154), (121, 23196), (133, 23253),

Gene: Mutaforma13_33 Start: 29022, Stop: 29396, Start Num: 45

Candidate Starts for Mutaforma13_33:

(Start: 45 @29022 has 263 MA's), (Start: 46 @29025 has 18 MA's), (Start: 50 @29037 has 1 MA's), (Start: 54 @29049 has 19 MA's), (126, 29256), (138, 29289), (153, 29331),

Gene: Mwanjiwa_34 Start: 28924, Stop: 29271, Start Num: 54

Candidate Starts for Mwanjiwa_34:

(Start: 45 @28897 has 263 MA's), (Start: 46 @28900 has 18 MA's), (Start: 50 @28912 has 1 MA's), (Start: 54 @28924 has 19 MA's), (126, 29131), (138, 29164), (153, 29206),

Gene: MyraDee_28 Start: 20416, Stop: 20760, Start Num: 54

Candidate Starts for MyraDee_28:

(Start: 54 @20416 has 19 MA's), (109, 20533), (154, 20689),

Gene: Myxus_32 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for Myxus_32:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: NaSiaTalie_30 Start: 22443, Stop: 22772, Start Num: 58

Candidate Starts for NaSiaTalie_30:

(31, 22284), (Start: 58 @22443 has 27 MA's), (Start: 78 @22470 has 12 MA's), (80, 22476), (105, 22530), (120, 22575), (160, 22743),

Gene: Nabi_25 Start: 21248, Stop: 21601, Start Num: 63

Candidate Starts for Nabi_25:

(Start: 63 @21248 has 52 MA's), (Start: 91 @21320 has 4 MA's), (114, 21380), (121, 21413), (136, 21470), (157, 21557), (158, 21563),

Gene: Naca_27 Start: 22111, Stop: 22401, Start Num: 78

Candidate Starts for Naca_27:

(Start: 39 @21991 has 2 MA's), (Start: 65 @22081 has 36 MA's), (Start: 78 @22111 has 12 MA's), (80, 22117), (126, 22243), (137, 22273), (138, 22276), (147, 22297), (154, 22330), (170, 22393),

Gene: Nanodon_27 Start: 21238, Stop: 21588, Start Num: 63

Candidate Starts for Nanodon_27:

(Start: 63 @21238 has 52 MA's), (Start: 65 @21244 has 36 MA's), (Start: 78 @21274 has 12 MA's), (Start: 91 @21307 has 4 MA's), (121, 21400), (136, 21457),

Gene: NearlyHeadless_27 Start: 21248, Stop: 21529, Start Num: 65

Candidate Starts for NearlyHeadless_27:

(Start: 65 @21248 has 36 MA's), (Start: 78 @21275 has 12 MA's), (80, 21281), (90, 21305), (105, 21335), (157, 21482), (159, 21497), (163, 21509), (168, 21518),

Gene: Nebkiss_37 Start: 31571, Stop: 31879, Start Num: 54

Candidate Starts for Nebkiss_37:

(Start: 54 @31571 has 19 MA's), (71, 31619), (73, 31625), (79, 31637), (101, 31682), (123, 31766), (127, 31787), (138, 31820),

Gene: Nebulosus_32 Start: 21405, Stop: 21746, Start Num: 55

Candidate Starts for Nebulosus_32:

(Start: 55 @21405 has 109 MA's), (90, 21471), (95, 21483), (157, 21693), (167, 21729), (172, 21735),

Gene: Necropolis_29 Start: 25482, Stop: 25841, Start Num: 45

Candidate Starts for Necropolis_29:

(Start: 45 @25482 has 263 MA's), (77, 25569), (126, 25707), (138, 25740),

Gene: Nedarya_31 Start: 22021, Stop: 22362, Start Num: 55

Candidate Starts for Nedarya_31:

(Start: 55 @22021 has 109 MA's), (80, 22063), (90, 22087), (103, 22114), (110, 22132), (154, 22285), (167, 22345), (172, 22351),

Gene: Neeharika16_33 Start: 22206, Stop: 22502, Start Num: 55

Candidate Starts for Neeharika16_33:

(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: Nekros_49 Start: 42641, Stop: 43027, Start Num: 52

Candidate Starts for Nekros_49:

(Start: 52 @42641 has 40 MA's), (Start: 68 @42680 has 1 MA's), (72, 42695), (77, 42704), (126, 42851), (131, 42875), (138, 42893), (145, 42923), (147, 42935),

Gene: Nенаe_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for Nенаe_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: Nerdos_25 Start: 20588, Stop: 20941, Start Num: 63

Candidate Starts for Nerdos_25:

(Start: 63 @20588 has 52 MA's), (Start: 78 @20624 has 12 MA's), (Start: 91 @20657 has 4 MA's), (136, 20807), (138, 20816), (140, 20825), (154, 20870),

Gene: NewHope4_37 Start: 29578, Stop: 29952, Start Num: 45

Candidate Starts for NewHope4_37:

(Start: 45 @29578 has 263 MA's), (Start: 50 @29593 has 1 MA's), (Start: 54 @29605 has 19 MA's), (126, 29812), (138, 29845),

Gene: Newrala_33 Start: 22206, Stop: 22502, Start Num: 55

Candidate Starts for Newrala_33:

(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: Nibley_45 Start: 38663, Stop: 39037, Start Num: 52

Candidate Starts for Nibley_45:

(Start: 52 @38663 has 40 MA's), (Start: 68 @38702 has 1 MA's), (72, 38717), (77, 38726), (126, 38873), (131, 38897), (138, 38915), (145, 38945), (147, 38957),

Gene: NicoleTera_34 Start: 24306, Stop: 24629, Start Num: 58

Candidate Starts for NicoleTera_34:

(31, 24147), (Start: 58 @24306 has 27 MA's), (Start: 78 @24333 has 12 MA's), (80, 24339), (88, 24354), (102, 24384), (116, 24429), (160, 24606),

Gene: NihilNomen_50 Start: 43826, Stop: 44221, Start Num: 52

Candidate Starts for NihilNomen_50:

(Start: 52 @43826 has 40 MA's), (69, 43868), (72, 43880), (117, 43991), (126, 44036), (138, 44078), (146, 44111), (147, 44120), (149, 44132),

Gene: Nimbo_33 Start: 28770, Stop: 29144, Start Num: 45

Candidate Starts for Nimbo_33:

(Start: 45 @28770 has 263 MA's), (Start: 50 @28785 has 1 MA's), (Start: 54 @28797 has 19 MA's), (126, 29004), (138, 29037), (153, 29079),

Gene: Nishikigoi_25 Start: 21215, Stop: 21568, Start Num: 62

Candidate Starts for Nishikigoi_25:

(Start: 62 @21215 has 29 MA's), (Start: 66 @21224 has 113 MA's), (Start: 75 @21242 has 1 MA's), (Start: 78 @21248 has 12 MA's), (82, 21257), (89, 21275), (100, 21299), (114, 21341), (131, 21422), (143, 21458), (158, 21524), (164, 21548),

Gene: Nitzel_34 Start: 29486, Stop: 29860, Start Num: 45

Candidate Starts for Nitzel_34:

(Start: 45 @29486 has 263 MA's), (Start: 46 @29489 has 18 MA's), (Start: 50 @29501 has 1 MA's), (Start: 54 @29513 has 19 MA's), (126, 29720), (138, 29753),

Gene: Nivrat_33 Start: 28911, Stop: 29285, Start Num: 45

Candidate Starts for Nivrat_33:

(Start: 45 @28911 has 263 MA's), (Start: 50 @28926 has 1 MA's), (Start: 54 @28938 has 19 MA's), (126, 29145), (137, 29175), (138, 29178), (153, 29220),

Gene: Noella_31 Start: 23060, Stop: 23362, Start Num: 66

Candidate Starts for Noella_31:

(Start: 49 @23015 has 3 MA's), (Start: 66 @23060 has 113 MA's), (Start: 78 @23090 has 12 MA's), (83, 23099), (102, 23141), (116, 23168),

Gene: Norbert_30 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for Norbert_30:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: NormanBulbieJr_33 Start: 28926, Stop: 29300, Start Num: 45

Candidate Starts for NormanBulbieJr_33:

(Start: 45 @28926 has 263 MA's), (Start: 50 @28941 has 1 MA's), (Start: 54 @28953 has 19 MA's), (126, 29160), (137, 29190), (138, 29193), (153, 29235),

Gene: NothingSpecial_32 Start: 24442, Stop: 24783, Start Num: 54

Candidate Starts for NothingSpecial_32:

(32, 24283), (Start: 54 @24442 has 19 MA's), (161, 24760),

Gene: Ochi17_31 Start: 28425, Stop: 28799, Start Num: 45

Candidate Starts for Ochi17_31:

(Start: 45 @28425 has 263 MA's), (Start: 46 @28428 has 18 MA's), (Start: 50 @28440 has 1 MA's),
(Start: 54 @28452 has 19 MA's), (126, 28659), (137, 28689), (138, 28692), (153, 28734),

Gene: Odette_51 Start: 43068, Stop: 43442, Start Num: 52

Candidate Starts for Odette_51:

(Start: 52 @43068 has 40 MA's), (69, 43110), (72, 43122), (117, 43233), (126, 43278), (138, 43320),
(146, 43353), (147, 43362), (149, 43374),

Gene: Odin_29 Start: 21218, Stop: 21526, Start Num: 55

Candidate Starts for Odin_29:

(31, 21059), (41, 21167), (Start: 55 @21218 has 109 MA's), (69, 21242), (90, 21296), (Start: 91
@21299 has 4 MA's), (105, 21329), (148, 21440),

Gene: OfUltron_33 Start: 28977, Stop: 29348, Start Num: 46

Candidate Starts for OfUltron_33:

(Start: 45 @28974 has 263 MA's), (Start: 46 @28977 has 18 MA's), (Start: 50 @28989 has 1 MA's),
(Start: 54 @29001 has 19 MA's), (126, 29208), (137, 29238), (138, 29241), (153, 29283),

Gene: Ogopogo_33 Start: 28118, Stop: 28492, Start Num: 45

Candidate Starts for Ogopogo_33:

(Start: 45 @28118 has 263 MA's), (Start: 46 @28121 has 18 MA's), (Start: 50 @28133 has 1 MA's),
(Start: 54 @28145 has 19 MA's), (77, 28205), (126, 28352), (137, 28382), (138, 28385), (153, 28427),

Gene: Oksu_34 Start: 28818, Stop: 29192, Start Num: 45

Candidate Starts for Oksu_34:

(Start: 45 @28818 has 263 MA's), (Start: 46 @28821 has 18 MA's), (Start: 50 @28833 has 1 MA's),
(Start: 54 @28845 has 19 MA's), (126, 29052), (137, 29082), (138, 29085), (153, 29127),

Gene: OlanP_32 Start: 23227, Stop: 23529, Start Num: 66

Candidate Starts for OlanP_32:

(Start: 49 @23182 has 3 MA's), (Start: 66 @23227 has 113 MA's), (116, 23335),

Gene: OldBen_33 Start: 28801, Stop: 29175, Start Num: 45

Candidate Starts for OldBen_33:

(Start: 45 @28801 has 263 MA's), (Start: 50 @28816 has 1 MA's), (Start: 54 @28828 has 19 MA's),
(126, 29035), (138, 29068), (153, 29110),

Gene: Oliynyk_26 Start: 21029, Stop: 21313, Start Num: 91

Candidate Starts for Oliynyk_26:

(Start: 63 @20960 has 52 MA's), (Start: 78 @20996 has 12 MA's), (Start: 91 @21029 has 4 MA's),
(138, 21188),

Gene: Ollie_32 Start: 22833, Stop: 23135, Start Num: 66

Candidate Starts for Ollie_32:

(48, 22785), (Start: 49 @22788 has 3 MA's), (Start: 66 @22833 has 113 MA's), (Start: 78 @22863 has
12 MA's), (83, 22872),

Gene: OlympiaSaint_33 Start: 29215, Stop: 29589, Start Num: 45

Candidate Starts for OlympiaSaint_33:

(Start: 45 @29215 has 263 MA's), (Start: 46 @29218 has 18 MA's), (Start: 50 @29230 has 1 MA's),
(Start: 54 @29242 has 19 MA's), (126, 29449), (138, 29482), (153, 29524),

Gene: Omar_26 Start: 21578, Stop: 21931, Start Num: 62

Candidate Starts for Omar_26:

(Start: 62 @21578 has 29 MA's), (70, 21593), (Start: 75 @21605 has 1 MA's), (Start: 78 @21611 has 12 MA's), (82, 21620), (89, 21638), (104, 21671), (105, 21674), (131, 21785), (158, 21887), (164, 21911),

Gene: Omega_55 Start: 44873, Stop: 45259, Start Num: 52

Candidate Starts for Omega_55:

(Start: 52 @44873 has 40 MA's), (Start: 68 @44912 has 1 MA's), (72, 44927), (77, 44936), (126, 45083), (131, 45107), (138, 45125), (145, 45155), (147, 45167),

Gene: Onglai_31 Start: 22342, Stop: 22710, Start Num: 56

Candidate Starts for Onglai_31:

(40, 22282), (Start: 56 @22342 has 26 MA's), (79, 22378), (84, 22384), (92, 22405), (102, 22423), (105, 22432), (130, 22531), (133, 22543), (136, 22564), (138, 22573), (147, 22594),

Gene: Oofda_32 Start: 21379, Stop: 21720, Start Num: 55

Candidate Starts for Oofda_32:

(Start: 55 @21379 has 109 MA's), (90, 21445), (95, 21457), (157, 21667), (167, 21703), (172, 21709),

Gene: Optimus_56 Start: 44741, Stop: 45136, Start Num: 52

Candidate Starts for Optimus_56:

(Start: 52 @44741 has 40 MA's), (69, 44783), (72, 44795), (117, 44906), (126, 44951), (138, 44993), (146, 45026), (147, 45035), (149, 45047),

Gene: Orange_30 Start: 23073, Stop: 23396, Start Num: 53

Candidate Starts for Orange_30:

(Start: 53 @23073 has 29 MA's), (59, 23082), (95, 23142), (102, 23154), (121, 23196), (133, 23253),

Gene: Ovechkin_34 Start: 29774, Stop: 30148, Start Num: 45

Candidate Starts for Ovechkin_34:

(Start: 45 @29774 has 263 MA's), (Start: 46 @29777 has 18 MA's), (Start: 50 @29789 has 1 MA's), (Start: 54 @29801 has 19 MA's), (77, 29861), (126, 30008), (138, 30041), (153, 30083),

Gene: OwlsT2W_34 Start: 29190, Stop: 29564, Start Num: 45

Candidate Starts for OwlsT2W_34:

(Start: 45 @29190 has 263 MA's), (Start: 50 @29205 has 1 MA's), (Start: 54 @29217 has 19 MA's), (126, 29424), (138, 29457),

Gene: Ozzie_25 Start: 20574, Stop: 20927, Start Num: 63

Candidate Starts for Ozzie_25:

(Start: 63 @20574 has 52 MA's), (Start: 78 @20610 has 12 MA's), (Start: 91 @20643 has 4 MA's), (136, 20793), (138, 20802), (140, 20811), (154, 20856),

Gene: OzzyJ_25 Start: 20697, Stop: 21053, Start Num: 60

Candidate Starts for OzzyJ_25:

(Start: 60 @20697 has 17 MA's), (Start: 78 @20736 has 12 MA's), (Start: 91 @20769 has 4 MA's), (121, 20862), (136, 20919), (138, 20928), (171, 21045),

Gene: P28Green_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for P28Green_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's),

Gene: PGHhamlin_34 Start: 22955, Stop: 23257, Start Num: 66
Candidate Starts for PGHhamlin_34:
(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has 12 MA's),

Gene: PHappiness_33 Start: 28743, Stop: 29117, Start Num: 45
Candidate Starts for PHappiness_33:
(Start: 45 @28743 has 263 MA's), (Start: 50 @28758 has 1 MA's), (Start: 54 @28770 has 19 MA's),
(126, 28977), (138, 29010), (153, 29052),

Gene: PMC_33 Start: 28744, Stop: 29118, Start Num: 45
Candidate Starts for PMC_33:
(Start: 45 @28744 has 263 MA's), (Start: 46 @28747 has 18 MA's), (Start: 50 @28759 has 1 MA's),
(Start: 54 @28771 has 19 MA's), (126, 28978), (138, 29011), (153, 29053),

Gene: PP_39 Start: 28078, Stop: 28395, Start Num: 58
Candidate Starts for PP_39:
(31, 27919), (Start: 58 @28078 has 27 MA's), (Start: 78 @28105 has 12 MA's), (80, 28111), (Start: 86
@28120 has 1 MA's), (89, 28129), (116, 28201), (121, 28222), (138, 28279),

Gene: Pablito_25 Start: 21194, Stop: 21544, Start Num: 63
Candidate Starts for Pablito_25:
(Start: 63 @21194 has 52 MA's), (Start: 65 @21200 has 36 MA's), (Start: 91 @21260 has 4 MA's),
(121, 21353), (136, 21410), (140, 21428),

Gene: Pacc40_33 Start: 28935, Stop: 29309, Start Num: 45
Candidate Starts for Pacc40_33:
(Start: 45 @28935 has 263 MA's), (Start: 46 @28938 has 18 MA's), (Start: 50 @28950 has 1 MA's),
(Start: 54 @28962 has 19 MA's), (126, 29169), (138, 29202), (153, 29244),

Gene: PackMan_32 Start: 24008, Stop: 24376, Start Num: 56
Candidate Starts for PackMan_32:
(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089),
(105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Paedore_25 Start: 21359, Stop: 21718, Start Num: 75
Candidate Starts for Paedore_25:
(Start: 64 @21335 has 1 MA's), (70, 21347), (Start: 75 @21359 has 1 MA's), (Start: 91 @21398 has 4
MA's), (102, 21419), (114, 21458), (130, 21536), (138, 21557), (158, 21662), (166, 21692),

Gene: PaintedDog_32 Start: 27272, Stop: 27640, Start Num: 46
Candidate Starts for PaintedDog_32:
(Start: 45 @27269 has 263 MA's), (Start: 46 @27272 has 18 MA's), (121, 27470), (122, 27473), (138,
27527),

Gene: PainterBoy_31 Start: 23126, Stop: 23401, Start Num: 55
Candidate Starts for PainterBoy_31:
(Start: 55 @23126 has 109 MA's), (80, 23168), (87, 23180), (Start: 91 @23192 has 4 MA's), (105,
23222), (121, 23255), (126, 23279),

Gene: Panamaxus_30 Start: 23059, Stop: 23361, Start Num: 66
Candidate Starts for Panamaxus_30:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: Panchino_27 Start: 23750, Stop: 24223, Start Num: 42

Candidate Starts for Panchino_27:

(10, 23186), (19, 23345), (21, 23372), (Start: 42 @23750 has 12 MA's), (90, 23876), (126, 23996), (130, 24017), (144, 24080), (150, 24122),

Gene: Paolo_27 Start: 21760, Stop: 22113, Start Num: 62

Candidate Starts for Paolo_27:

(36, 21616), (Start: 62 @21760 has 29 MA's), (Start: 75 @21787 has 1 MA's), (Start: 78 @21793 has 12 MA's), (118, 21898), (119, 21904), (131, 21967), (143, 22003), (158, 22069), (164, 22093),

Gene: Parmesanjohn_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Parmesanjohn_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: PatoPoderoso_33 Start: 28960, Stop: 29334, Start Num: 45

Candidate Starts for PatoPoderoso_33:

(Start: 45 @28960 has 263 MA's), (Start: 50 @28975 has 1 MA's), (Start: 54 @28987 has 19 MA's), (126, 29194), (138, 29227),

Gene: Pavo_27 Start: 22448, Stop: 22834, Start Num: 63

Candidate Starts for Pavo_27:

(Start: 63 @22448 has 52 MA's), (Start: 78 @22472 has 12 MA's), (Start: 91 @22505 has 4 MA's), (98, 22520), (100, 22523), (104, 22532), (114, 22565), (121, 22598), (128, 22634), (138, 22664), (157, 22742), (158, 22748),

Gene: Pawn_32 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Pawn_32:

(Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (116, 23155),

Gene: PeanutPie_29 Start: 25483, Stop: 25842, Start Num: 45

Candidate Starts for PeanutPie_29:

(30, 25339), (Start: 45 @25483 has 263 MA's), (126, 25708), (138, 25741),

Gene: Pembroke_32 Start: 22964, Stop: 23266, Start Num: 66

Candidate Starts for Pembroke_32:

(48, 22916), (Start: 49 @22919 has 3 MA's), (Start: 66 @22964 has 113 MA's), (Start: 78 @22994 has 12 MA's),

Gene: Penny1_32 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for Penny1_32:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: Peridot_38 Start: 30263, Stop: 30637, Start Num: 45

Candidate Starts for Peridot_38:

(Start: 45 @30263 has 263 MA's), (Start: 46 @30266 has 18 MA's), (Start: 50 @30278 has 1 MA's), (Start: 54 @30290 has 19 MA's), (126, 30497), (138, 30530),

Gene: Petersenfast_29 Start: 23070, Stop: 23393, Start Num: 53

Candidate Starts for Petersenfast_29:

(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: PetterN_28 Start: 21515, Stop: 21835, Start Num: 65

Candidate Starts for PetterN_28:

(Start: 39 @21425 has 2 MA's), (Start: 65 @21515 has 36 MA's), (Start: 78 @21545 has 12 MA's), (80, 21551), (126, 21677), (138, 21710), (147, 21731), (154, 21764), (159, 21803), (170, 21827),

Gene: Ph8s_31 Start: 21176, Stop: 21445, Start Num: 53

Candidate Starts for Ph8s_31:

(Start: 53 @21176 has 29 MA's), (83, 21215), (Start: 86 @21221 has 1 MA's), (102, 21257),

Gene: Phaeder_32 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for Phaeder_32:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Phalconet_33 Start: 28872, Stop: 29246, Start Num: 45

Candidate Starts for Phalconet_33:

(Start: 45 @28872 has 263 MA's), (Start: 50 @28887 has 1 MA's), (Start: 54 @28899 has 19 MA's), (126, 29106), (138, 29139),

Gene: Phalm_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for Phalm_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: PhancyPhin_27 Start: 23787, Stop: 24296, Start Num: 42

Candidate Starts for PhancyPhin_27:

(10, 23217), (Start: 42 @23787 has 12 MA's), (90, 23913), (99, 23931), (122, 24006), (126, 24033), (130, 24054), (144, 24117), (151, 24186),

Gene: Phanphagia_30 Start: 27895, Stop: 28269, Start Num: 45

Candidate Starts for Phanphagia_30:

(Start: 45 @27895 has 263 MA's), (Start: 50 @27910 has 1 MA's), (Start: 54 @27922 has 19 MA's), (126, 28129), (138, 28162),

Gene: Phantastic_30 Start: 22482, Stop: 22784, Start Num: 66

Candidate Starts for Phantastic_30:

(Start: 49 @22446 has 3 MA's), (Start: 66 @22482 has 113 MA's), (83, 22521), (116, 22590),

Gene: Pharaoh_30 Start: 23508, Stop: 23873, Start Num: 54

Candidate Starts for Pharaoh_30:

(Start: 54 @23508 has 19 MA's), (Start: 68 @23544 has 1 MA's), (72, 23559), (94, 23598), (120, 23658), (128, 23706), (153, 23769),

Gene: Phasih_34 Start: 29321, Stop: 29695, Start Num: 45

Candidate Starts for Phasih_34:

(Start: 45 @29321 has 263 MA's), (47, 29327), (Start: 50 @29336 has 1 MA's), (Start: 54 @29348 has 19 MA's), (126, 29555), (138, 29588), (153, 29630),

Gene: Phatniss_34 Start: 29261, Stop: 29635, Start Num: 45

Candidate Starts for Phatniss_34:

(Start: 45 @29261 has 263 MA's), (Start: 46 @29264 has 18 MA's), (Start: 50 @29276 has 1 MA's), (Start: 54 @29288 has 19 MA's), (126, 29495), (138, 29528), (153, 29570),

Gene: Phegasus_29 Start: 25491, Stop: 25850, Start Num: 45
Candidate Starts for Phegasus_29:
(Start: 45 @25491 has 263 MA's), (77, 25578), (126, 25716), (138, 25749),

Gene: PhesterPhotato_33 Start: 28792, Stop: 29166, Start Num: 45
Candidate Starts for PhesterPhotato_33:
(14, 28270), (15, 28273), (16, 28309), (Start: 45 @28792 has 263 MA's), (Start: 50 @28807 has 1 MA's), (Start: 54 @28819 has 19 MA's), (126, 29026), (138, 29059),

Gene: Phettuccine_25 Start: 20590, Stop: 20943, Start Num: 63
Candidate Starts for Phettuccine_25:
(Start: 63 @20590 has 52 MA's), (Start: 78 @20626 has 12 MA's), (Start: 91 @20659 has 4 MA's), (136, 20809), (138, 20818), (140, 20827), (154, 20872),

Gene: Philonius_30 Start: 24731, Stop: 25099, Start Num: 43
Candidate Starts for Philonius_30:
(Start: 43 @24731 has 34 MA's), (122, 24929), (126, 24950),

Gene: Philus_33 Start: 28838, Stop: 29212, Start Num: 45
Candidate Starts for Philus_33:
(Start: 45 @28838 has 263 MA's), (Start: 46 @28841 has 18 MA's), (Start: 50 @28853 has 1 MA's), (Start: 54 @28865 has 19 MA's), (126, 29072), (138, 29105), (153, 29147),

Gene: Phineas_29 Start: 25856, Stop: 26215, Start Num: 45
Candidate Starts for Phineas_29:
(Start: 45 @25856 has 263 MA's), (77, 25943), (126, 26081), (138, 26114),

Gene: PhishRPhriends_31 Start: 22231, Stop: 22533, Start Num: 66
Candidate Starts for PhishRPhriends_31:
(Start: 49 @22186 has 3 MA's), (Start: 66 @22231 has 113 MA's), (116, 22339),

Gene: Phlei_25 Start: 24001, Stop: 24303, Start Num: 65
Candidate Starts for Phlei_25:
(Start: 65 @24001 has 36 MA's), (89, 24055), (102, 24082),

Gene: PhlipPhlop_34 Start: 30379, Stop: 30750, Start Num: 46
Candidate Starts for PhlipPhlop_34:
(Start: 45 @30376 has 263 MA's), (Start: 46 @30379 has 18 MA's), (Start: 50 @30391 has 1 MA's), (Start: 54 @30403 has 19 MA's), (126, 30610), (138, 30643), (153, 30685),

Gene: Phlorence_27 Start: 22333, Stop: 22653, Start Num: 65
Candidate Starts for Phlorence_27:
(Start: 39 @22243 has 2 MA's), (Start: 65 @22333 has 36 MA's), (Start: 78 @22363 has 12 MA's), (80, 22369), (105, 22423), (126, 22495), (137, 22525), (138, 22528), (147, 22549), (154, 22582), (161, 22630), (170, 22645),

Gene: Phloss_27 Start: 24167, Stop: 24547, Start Num: 43
Candidate Starts for Phloss_27:
(Start: 43 @24167 has 34 MA's), (122, 24377), (126, 24398),

Gene: Phoebe_32 Start: 22961, Stop: 23263, Start Num: 66
Candidate Starts for Phoebe_32:

(48, 22913), (Start: 49 @22916 has 3 MA's), (Start: 66 @22961 has 113 MA's), (Start: 78 @22991 has 12 MA's),

Gene: Phoebus_50 Start: 44027, Stop: 44422, Start Num: 52

Candidate Starts for Phoebus_50:

(Start: 52 @44027 has 40 MA's), (69, 44069), (72, 44081), (117, 44192), (126, 44237), (138, 44279), (146, 44312), (147, 44321), (149, 44333),

Gene: Phonnegut_32 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Phonnegut_32:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (92, 24104), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (136, 24263), (138, 24272),

Gene: Phoxy_32 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Phoxy_32:

(48, 22999), (Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (Start: 78 @23077 has 12 MA's),

Gene: Phrann_28 Start: 24634, Stop: 24999, Start Num: 45

Candidate Starts for Phrann_28:

(Start: 45 @24634 has 263 MA's), (Start: 46 @24637 has 18 MA's), (96, 24757), (121, 24835), (122, 24838),

Gene: Phranny_33 Start: 23039, Stop: 23341, Start Num: 66

Candidate Starts for Phranny_33:

(Start: 49 @22994 has 3 MA's), (Start: 66 @23039 has 113 MA's), (116, 23147),

Gene: PickleBack_27 Start: 22047, Stop: 22367, Start Num: 65

Candidate Starts for PickleBack_27:

(Start: 39 @21957 has 2 MA's), (Start: 65 @22047 has 36 MA's), (Start: 78 @22077 has 12 MA's), (80, 22083), (105, 22137), (126, 22209), (137, 22239), (138, 22242), (147, 22263), (154, 22296), (161, 22344), (170, 22359),

Gene: Pioneer_32 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Pioneer_32:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (92, 24104), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (136, 24263), (138, 24272),

Gene: Piper2020_35 Start: 29364, Stop: 29738, Start Num: 45

Candidate Starts for Piper2020_35:

(Start: 45 @29364 has 263 MA's), (47, 29370), (Start: 50 @29379 has 1 MA's), (Start: 54 @29391 has 19 MA's), (126, 29598), (138, 29631), (154, 29685),

Gene: Pippy_27 Start: 24902, Stop: 25276, Start Num: 45

Candidate Starts for Pippy_27:

(Start: 45 @24902 has 263 MA's), (Start: 50 @24917 has 1 MA's), (Start: 54 @24929 has 19 MA's), (126, 25136), (137, 25166), (138, 25169), (153, 25211),

Gene: Pipsqueaks_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Pipsqueaks_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: Piro94_31 Start: 22904, Stop: 23233, Start Num: 58

Candidate Starts for Piro94_31:

(31, 22745), (Start: 58 @22904 has 27 MA's), (Start: 78 @22931 has 12 MA's), (80, 22937), (105, 22991), (120, 23036), (160, 23204),

Gene: Pistachio_31 Start: 22071, Stop: 22373, Start Num: 66

Candidate Starts for Pistachio_31:

(38, 21969), (Start: 49 @22026 has 3 MA's), (Start: 66 @22071 has 113 MA's), (Start: 78 @22101 has 12 MA's), (83, 22110),

Gene: Plumbus_35 Start: 28841, Stop: 29215, Start Num: 45

Candidate Starts for Plumbus_35:

(Start: 45 @28841 has 263 MA's), (Start: 50 @28856 has 1 MA's), (Start: 54 @28868 has 19 MA's), (126, 29075), (138, 29108),

Gene: Pmask_33 Start: 22207, Stop: 22503, Start Num: 55

Candidate Starts for Pmask_33:

(Start: 55 @22207 has 109 MA's), (87, 22261), (126, 22360), (141, 22405),

Gene: Pocahontas_31 Start: 23056, Stop: 23358, Start Num: 66

Candidate Starts for Pocahontas_31:

(Start: 49 @23011 has 3 MA's), (Start: 66 @23056 has 113 MA's), (Start: 78 @23086 has 12 MA's), (83, 23095), (102, 23137), (116, 23164),

Gene: Poenanya_33 Start: 28884, Stop: 29258, Start Num: 45

Candidate Starts for Poenanya_33:

(Start: 45 @28884 has 263 MA's), (47, 28890), (Start: 50 @28899 has 1 MA's), (Start: 54 @28911 has 19 MA's), (126, 29118), (138, 29151),

Gene: Polka14_34 Start: 29387, Stop: 29761, Start Num: 45

Candidate Starts for Polka14_34:

(Start: 45 @29387 has 263 MA's), (47, 29393), (Start: 50 @29402 has 1 MA's), (Start: 54 @29414 has 19 MA's), (126, 29621), (138, 29654), (153, 29696),

Gene: Polkaroo_29 Start: 25501, Stop: 25860, Start Num: 45

Candidate Starts for Polkaroo_29:

(Start: 45 @25501 has 263 MA's), (77, 25588), (126, 25726), (138, 25759),

Gene: Pollywog_33 Start: 29096, Stop: 29470, Start Num: 45

Candidate Starts for Pollywog_33:

(33, 28976), (Start: 45 @29096 has 263 MA's), (Start: 46 @29099 has 18 MA's), (Start: 50 @29111 has 1 MA's), (Start: 54 @29123 has 19 MA's), (126, 29330), (138, 29363),

Gene: Polo2Bam_38 Start: 28943, Stop: 29317, Start Num: 45

Candidate Starts for Polo2Bam_38:

(Start: 45 @28943 has 263 MA's), (Start: 46 @28946 has 18 MA's), (Start: 50 @28958 has 1 MA's), (Start: 54 @28970 has 19 MA's), (77, 29030), (126, 29177), (138, 29210),

Gene: Polyphemus_33 Start: 22205, Stop: 22501, Start Num: 55

Candidate Starts for Polyphemus_33:

(Start: 55 @22205 has 109 MA's), (87, 22259), (126, 22358), (141, 22403),

Gene: PopTart_33 Start: 29077, Stop: 29451, Start Num: 45

Candidate Starts for PopTart_33:

(Start: 45 @29077 has 263 MA's), (Start: 50 @29092 has 1 MA's), (Start: 54 @29104 has 19 MA's), (126, 29311), (138, 29344),

Gene: Popcicle_31 Start: 23056, Stop: 23358, Start Num: 66

Candidate Starts for Popcicle_31:

(Start: 49 @23011 has 3 MA's), (Start: 66 @23056 has 113 MA's), (Start: 78 @23086 has 12 MA's), (83, 23095), (102, 23137), (116, 23164),

Gene: Porcelain_49 Start: 40234, Stop: 40620, Start Num: 52

Candidate Starts for Porcelain_49:

(Start: 52 @40234 has 40 MA's), (Start: 68 @40273 has 1 MA's), (72, 40288), (77, 40297), (126, 40444), (131, 40468), (138, 40486), (145, 40516), (147, 40528),

Gene: PotatoSplit_33 Start: 22963, Stop: 23265, Start Num: 66

Candidate Starts for PotatoSplit_33:

(48, 22915), (Start: 49 @22918 has 3 MA's), (Start: 66 @22963 has 113 MA's), (Start: 78 @22993 has 12 MA's),

Gene: Pound_53 Start: 45604, Stop: 45999, Start Num: 52

Candidate Starts for Pound_53:

(Start: 52 @45604 has 40 MA's), (69, 45646), (72, 45658), (117, 45769), (126, 45814), (138, 45856), (146, 45889), (147, 45898), (149, 45910),

Gene: Power_30 Start: 22350, Stop: 22691, Start Num: 54

Candidate Starts for Power_30:

(Start: 54 @22350 has 19 MA's), (Start: 86 @22431 has 1 MA's), (94, 22440), (137, 22566), (161, 22668),

Gene: Priamo_33 Start: 22256, Stop: 22552, Start Num: 55

Candidate Starts for Priamo_33:

(Start: 55 @22256 has 109 MA's), (84, 22304), (87, 22310), (126, 22409), (141, 22454),

Gene: Prinash11_28 Start: 22222, Stop: 22512, Start Num: 78

Candidate Starts for Prinash11_28:

(Start: 39 @22102 has 2 MA's), (Start: 65 @22192 has 36 MA's), (Start: 78 @22222 has 12 MA's), (80, 22228), (121, 22330), (126, 22354), (130, 22375), (138, 22387), (147, 22408), (154, 22441), (161, 22489), (170, 22504),

Gene: Priscilla_33 Start: 29024, Stop: 29398, Start Num: 45

Candidate Starts for Priscilla_33:

(Start: 45 @29024 has 263 MA's), (Start: 50 @29039 has 1 MA's), (Start: 54 @29051 has 19 MA's), (126, 29258), (137, 29288), (138, 29291), (153, 29333),

Gene: Priya_32 Start: 24075, Stop: 24443, Start Num: 56

Candidate Starts for Priya_32:

(40, 24015), (Start: 56 @24075 has 26 MA's), (79, 24111), (84, 24117), (102, 24156), (105, 24165), (130, 24264), (133, 24276), (138, 24306), (141, 24318), (153, 24348),

Gene: Provolone_27 Start: 21827, Stop: 22213, Start Num: 63

Candidate Starts for Provolone_27:

(Start: 63 @21827 has 52 MA's), (Start: 78 @21851 has 12 MA's), (Start: 91 @21884 has 4 MA's), (98, 21899), (100, 21902), (104, 21911), (114, 21944), (121, 21977), (128, 22013), (138, 22043), (157, 22121), (158, 22127),

Gene: Puginator_27 Start: 21775, Stop: 22128, Start Num: 62

Candidate Starts for Puginator_27:

(Start: 62 @21775 has 29 MA's), (Start: 75 @21802 has 1 MA's), (Start: 78 @21808 has 12 MA's), (98, 21856), (118, 21913), (119, 21919), (131, 21982), (143, 22018), (158, 22084), (164, 22108),

Gene: Pukovnik_32 Start: 23927, Stop: 24250, Start Num: 58

Candidate Starts for Pukovnik_32:

(31, 23768), (Start: 58 @23927 has 27 MA's), (Start: 78 @23954 has 12 MA's), (80, 23960), (106, 24017), (137, 24125), (138, 24128), (141, 24140), (160, 24227),

Gene: Puppy_31 Start: 22141, Stop: 22443, Start Num: 66

Candidate Starts for Puppy_31:

(38, 22039), (Start: 49 @22096 has 3 MA's), (Start: 66 @22141 has 113 MA's), (Start: 78 @22171 has 12 MA's), (83, 22180),

Gene: Purgamenstris_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for Purgamenstris_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: Purky_28 Start: 25121, Stop: 25498, Start Num: 43

Candidate Starts for Purky_28:

(Start: 43 @25121 has 34 MA's), (93, 25244), (96, 25250), (153, 25427),

Gene: PurpleHaze_32 Start: 23046, Stop: 23348, Start Num: 66

Candidate Starts for PurpleHaze_32:

(Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (116, 23154),

Gene: Pygmy_31 Start: 27324, Stop: 27683, Start Num: 45

Candidate Starts for Pygmy_31:

(Start: 45 @27324 has 263 MA's), (77, 27411), (126, 27549), (138, 27582),

Gene: Qobbit_32 Start: 24038, Stop: 24406, Start Num: 56

Candidate Starts for Qobbit_32:

(40, 23978), (Start: 56 @24038 has 26 MA's), (79, 24074), (84, 24080), (102, 24119), (105, 24128), (130, 24227), (133, 24239), (138, 24269), (141, 24281), (153, 24311),

Gene: QueenB2_30 Start: 22468, Stop: 22755, Start Num: 74

Candidate Starts for QueenB2_30:

(37, 22309), (Start: 74 @22468 has 17 MA's), (138, 22633), (147, 22654), (160, 22732),

Gene: QueenBeesly_30 Start: 22350, Stop: 22637, Start Num: 74

Candidate Starts for QueenBeesly_30:

(37, 22191), (Start: 74 @22350 has 17 MA's), (138, 22515), (147, 22536), (160, 22614),

Gene: QueenHazel_28 Start: 25657, Stop: 26001, Start Num: 46

Candidate Starts for QueenHazel_28:

(18, 25192), (25, 25345), (27, 25414), (30, 25510), (Start: 45 @25654 has 263 MA's), (Start: 46 @25657 has 18 MA's), (121, 25840), (122, 25843), (126, 25864), (138, 25897),

Gene: QuickMath_34 Start: 30113, Stop: 30487, Start Num: 45

Candidate Starts for QuickMath_34:

(Start: 45 @30113 has 263 MA's), (Start: 46 @30116 has 18 MA's), (Start: 50 @30128 has 1 MA's),
(Start: 54 @30140 has 19 MA's), (77, 30200), (126, 30347), (137, 30377), (138, 30380), (153, 30422),

Gene: Quico_34 Start: 28573, Stop: 28947, Start Num: 45

Candidate Starts for Quico_34:

(Start: 45 @28573 has 263 MA's), (Start: 46 @28576 has 18 MA's), (Start: 50 @28588 has 1 MA's),
(Start: 54 @28600 has 19 MA's), (126, 28807), (138, 28840), (153, 28882),

Gene: QuinnKiro_30 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for QuinnKiro_30:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's),
(83, 23098), (102, 23140), (116, 23167),

Gene: Quokka_28 Start: 21322, Stop: 21645, Start Num: 58

Candidate Starts for Quokka_28:

(41, 21274), (Start: 58 @21322 has 27 MA's), (Start: 78 @21349 has 12 MA's), (80, 21355), (Start: 86
@21364 has 1 MA's), (119, 21451),

Gene: R4_25 Start: 21424, Stop: 21807, Start Num: 64

Candidate Starts for R4_25:

(Start: 64 @21424 has 1 MA's), (70, 21436), (Start: 75 @21448 has 1 MA's), (Start: 91 @21487 has 4
MA's), (102, 21508), (114, 21547), (130, 21625), (138, 21646), (158, 21751), (166, 21781),

Gene: Rachaly_33 Start: 24066, Stop: 24353, Start Num: 74

Candidate Starts for Rachaly_33:

(37, 23907), (Start: 74 @24066 has 17 MA's), (138, 24231), (147, 24252), (160, 24330),

Gene: Radiance_33 Start: 28937, Stop: 29311, Start Num: 45

Candidate Starts for Radiance_33:

(Start: 45 @28937 has 263 MA's), (Start: 46 @28940 has 18 MA's), (Start: 50 @28952 has 1 MA's),
(Start: 54 @28964 has 19 MA's), (126, 29171), (138, 29204), (153, 29246),

Gene: Rahalelujah_29 Start: 21862, Stop: 22227, Start Num: 55

Candidate Starts for Rahalelujah_29:

(41, 21811), (Start: 55 @21862 has 109 MA's), (92, 21925), (95, 21931), (97, 21934), (131, 22054),
(136, 22084), (138, 22093), (141, 22105),

Gene: Ramsey_36 Start: 29600, Stop: 29971, Start Num: 46

Candidate Starts for Ramsey_36:

(Start: 45 @29597 has 263 MA's), (Start: 46 @29600 has 18 MA's), (Start: 50 @29612 has 1 MA's),
(Start: 54 @29624 has 19 MA's), (77, 29684), (126, 29831), (138, 29864), (153, 29906),

Gene: Rana_25 Start: 21248, Stop: 21601, Start Num: 63

Candidate Starts for Rana_25:

(Start: 63 @21248 has 52 MA's), (Start: 91 @21320 has 4 MA's), (114, 21380), (121, 21413), (136,
21470), (157, 21557), (158, 21563),

Gene: Ravana_33 Start: 21369, Stop: 21710, Start Num: 55

Candidate Starts for Ravana_33:

(Start: 55 @21369 has 109 MA's), (90, 21435), (95, 21447), (157, 21657), (167, 21693), (172, 21699),

Gene: Raymond7_27 Start: 24117, Stop: 24518, Start Num: 42

Candidate Starts for Raymond7_27:

(10, 23547), (Start: 42 @24117 has 12 MA's), (90, 24243), (126, 24363),

Gene: ReMo_32 Start: 21405, Stop: 21746, Start Num: 55

Candidate Starts for ReMo_32:

(Start: 55 @21405 has 109 MA's), (90, 21471), (95, 21483), (157, 21693), (167, 21729), (172, 21735),

Gene: Rearden_45 Start: 39845, Stop: 40225, Start Num: 52

Candidate Starts for Rearden_45:

(Start: 52 @39845 has 40 MA's), (Start: 68 @39884 has 1 MA's), (72, 39899), (Start: 86 @39929 has 1 MA's), (125, 40052), (126, 40055), (131, 40079), (138, 40097), (145, 40127), (147, 40139),

Gene: Reba_33 Start: 22712, Stop: 23014, Start Num: 66

Candidate Starts for Reba_33:

(Start: 49 @22667 has 3 MA's), (Start: 66 @22712 has 113 MA's), (116, 22820),

Gene: Rebel_27 Start: 23579, Stop: 23959, Start Num: 43

Candidate Starts for Rebel_27:

(Start: 43 @23579 has 34 MA's), (122, 23789), (126, 23810),

Gene: RedBear_26 Start: 20998, Stop: 21354, Start Num: 63

Candidate Starts for RedBear_26:

(Start: 63 @20998 has 52 MA's), (Start: 78 @21037 has 12 MA's), (Start: 91 @21070 has 4 MA's), (121, 21163), (136, 21220),

Gene: RedBird_33 Start: 28742, Stop: 29116, Start Num: 45

Candidate Starts for RedBird_33:

(Start: 45 @28742 has 263 MA's), (47, 28748), (Start: 50 @28757 has 1 MA's), (Start: 54 @28769 has 19 MA's), (126, 28976), (138, 29009), (153, 29051),

Gene: Redi_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for Redi_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: Redno2_49 Start: 40812, Stop: 41186, Start Num: 52

Candidate Starts for Redno2_49:

(Start: 52 @40812 has 40 MA's), (Start: 68 @40851 has 1 MA's), (72, 40866), (77, 40875), (126, 41022), (131, 41046), (138, 41064), (145, 41094), (147, 41106),

Gene: Remus_32 Start: 21369, Stop: 21710, Start Num: 55

Candidate Starts for Remus_32:

(Start: 55 @21369 has 109 MA's), (90, 21435), (95, 21447), (157, 21657), (167, 21693), (172, 21699),

Gene: Renaud18_33 Start: 28962, Stop: 29336, Start Num: 45

Candidate Starts for Renaud18_33:

(Start: 45 @28962 has 263 MA's), (Start: 50 @28977 has 1 MA's), (Start: 54 @28989 has 19 MA's), (126, 29196), (138, 29229),

Gene: ResDef_31 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for ResDef_31:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: Retro23_30 Start: 22558, Stop: 22845, Start Num: 74
Candidate Starts for Retro23_30:
(37, 22399), (Start: 74 @22558 has 17 MA's), (138, 22723), (147, 22744), (160, 22822),

Gene: Rialto_37 Start: 31095, Stop: 31469, Start Num: 45
Candidate Starts for Rialto_37:
(Start: 45 @31095 has 263 MA's), (Start: 46 @31098 has 18 MA's), (Start: 50 @31110 has 1 MA's),
(Start: 54 @31122 has 19 MA's), (126, 31329), (138, 31362),

Gene: Rifter_33 Start: 22199, Stop: 22495, Start Num: 55
Candidate Starts for Rifter_33:
(41, 22148), (Start: 55 @22199 has 109 MA's), (84, 22247), (126, 22352), (141, 22397),

Gene: Rita_34 Start: 29011, Stop: 29385, Start Num: 45
Candidate Starts for Rita_34:
(Start: 45 @29011 has 263 MA's), (47, 29017), (Start: 50 @29026 has 1 MA's), (Start: 54 @29038 has
19 MA's), (126, 29245), (138, 29278),

Gene: RitaG_34 Start: 29207, Stop: 29581, Start Num: 45
Candidate Starts for RitaG_34:
(Start: 45 @29207 has 263 MA's), (Start: 46 @29210 has 18 MA's), (Start: 50 @29222 has 1 MA's),
(Start: 54 @29234 has 19 MA's), (77, 29294), (126, 29441), (138, 29474), (153, 29516),

Gene: Roary_27 Start: 21197, Stop: 21478, Start Num: 65
Candidate Starts for Roary_27:
(Start: 65 @21197 has 36 MA's), (Start: 78 @21224 has 12 MA's), (80, 21230), (90, 21254), (105,
21284), (126, 21341), (157, 21431), (159, 21446), (163, 21458), (168, 21467),

Gene: Rockne_33 Start: 28744, Stop: 29118, Start Num: 45
Candidate Starts for Rockne_33:
(Start: 45 @28744 has 263 MA's), (Start: 46 @28747 has 18 MA's), (Start: 50 @28759 has 1 MA's),
(Start: 54 @28771 has 19 MA's), (126, 28978), (138, 29011), (153, 29053),

Gene: Rockstar_30 Start: 22455, Stop: 22757, Start Num: 66
Candidate Starts for Rockstar_30:
(38, 22356), (Start: 49 @22413 has 3 MA's), (Start: 66 @22455 has 113 MA's), (116, 22563),

Gene: RockyHorror_34 Start: 28688, Stop: 29062, Start Num: 45
Candidate Starts for RockyHorror_34:
(Start: 45 @28688 has 263 MA's), (47, 28694), (Start: 50 @28703 has 1 MA's), (Start: 54 @28715 has
19 MA's), (126, 28922), (138, 28955),

Gene: Roimos_30 Start: 22494, Stop: 22796, Start Num: 66
Candidate Starts for Roimos_30:
(38, 22395), (Start: 49 @22452 has 3 MA's), (Start: 66 @22494 has 113 MA's), (80, 22530), (116,
22602),

Gene: Roksolana_33 Start: 22227, Stop: 22523, Start Num: 55
Candidate Starts for Roksolana_33:
(41, 22176), (Start: 55 @22227 has 109 MA's), (126, 22380), (141, 22425),

Gene: Rosalind_32 Start: 21527, Stop: 21868, Start Num: 55
Candidate Starts for Rosalind_32:

(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: Royals2015_33 Start: 28861, Stop: 29235, Start Num: 45

Candidate Starts for Royals2015_33:

(Start: 45 @28861 has 263 MA's), (Start: 46 @28864 has 18 MA's), (Start: 50 @28876 has 1 MA's),
(Start: 54 @28888 has 19 MA's), (126, 29095), (138, 29128), (153, 29170),

Gene: Rubeelu_29 Start: 24134, Stop: 24508, Start Num: 45

Candidate Starts for Rubeelu_29:

(28, 23966), (35, 24044), (Start: 45 @24134 has 263 MA's), (90, 24251),

Gene: Ruby_35 Start: 29802, Stop: 30176, Start Num: 45

Candidate Starts for Ruby_35:

(Start: 45 @29802 has 263 MA's), (Start: 50 @29817 has 1 MA's), (Start: 54 @29829 has 19 MA's),
(126, 30036), (138, 30069), (153, 30111),

Gene: Rummer_32 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Rummer_32:

(48, 22999), (Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (Start: 78 @23077 has
12 MA's),

Gene: Rusticus_26 Start: 20960, Stop: 21313, Start Num: 63

Candidate Starts for Rusticus_26:

(Start: 63 @20960 has 52 MA's), (Start: 78 @20996 has 12 MA's), (Start: 91 @21029 has 4 MA's),
(138, 21188),

Gene: RyeScarlet_33 Start: 24012, Stop: 24380, Start Num: 56

Candidate Starts for RyeScarlet_33:

(40, 23952), (Start: 56 @24012 has 26 MA's), (79, 24048), (84, 24054), (92, 24075), (102, 24093),
(105, 24102), (130, 24201), (133, 24213), (136, 24234), (138, 24243),

Gene: SG4_34 Start: 29511, Stop: 29885, Start Num: 45

Candidate Starts for SG4_34:

(Start: 45 @29511 has 263 MA's), (94, 29640), (99, 29649), (126, 29745), (138, 29778),

Gene: Saal_33 Start: 28816, Stop: 29190, Start Num: 45

Candidate Starts for Saal_33:

(Start: 45 @28816 has 263 MA's), (Start: 46 @28819 has 18 MA's), (Start: 50 @28831 has 1 MA's),
(Start: 54 @28843 has 19 MA's), (126, 29050), (138, 29083), (153, 29125),

Gene: Sabbb_34 Start: 29161, Stop: 29535, Start Num: 45

Candidate Starts for Sabbb_34:

(Start: 45 @29161 has 263 MA's), (47, 29167), (Start: 50 @29176 has 1 MA's), (Start: 54 @29188 has
19 MA's), (126, 29395), (138, 29428),

Gene: Sabia_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for Sabia_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has
12 MA's),

Gene: Sabinator_32 Start: 22961, Stop: 23263, Start Num: 66

Candidate Starts for Sabinator_32:

(48, 22913), (Start: 49 @22916 has 3 MA's), (Start: 66 @22961 has 113 MA's), (Start: 78 @22991 has 12 MA's),

Gene: Sachima_30 Start: 24050, Stop: 24376, Start Num: 84

Candidate Starts for Sachima_30:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Saftant_26 Start: 22490, Stop: 22837, Start Num: 63

Candidate Starts for Saftant_26:

(Start: 63 @22490 has 52 MA's), (Start: 65 @22496 has 36 MA's), (Start: 78 @22514 has 12 MA's), (Start: 91 @22547 has 4 MA's), (98, 22562), (100, 22565), (104, 22574), (114, 22607), (121, 22640), (128, 22676), (158, 22790),

Gene: Saintus_27 Start: 21213, Stop: 21494, Start Num: 65

Candidate Starts for Saintus_27:

(Start: 65 @21213 has 36 MA's), (Start: 78 @21240 has 12 MA's), (80, 21246), (90, 21270), (157, 21447), (159, 21462), (163, 21474), (168, 21483),

Gene: Salz_30 Start: 23064, Stop: 23387, Start Num: 53

Candidate Starts for Salz_30:

(Start: 53 @23064 has 29 MA's), (59, 23073), (95, 23133), (102, 23145), (121, 23187), (133, 23244),

Gene: Sandalphon_34 Start: 29545, Stop: 29919, Start Num: 45

Candidate Starts for Sandalphon_34:

(Start: 45 @29545 has 263 MA's), (47, 29551), (Start: 50 @29560 has 1 MA's), (Start: 54 @29572 has 19 MA's), (126, 29779), (138, 29812),

Gene: SarahRose_24 Start: 20706, Stop: 21062, Start Num: 60

Candidate Starts for SarahRose_24:

(Start: 60 @20706 has 17 MA's), (Start: 78 @20745 has 12 MA's), (Start: 91 @20778 has 4 MA's), (121, 20871), (136, 20928), (138, 20937), (171, 21054),

Gene: Sarma624_29 Start: 24971, Stop: 25345, Start Num: 45

Candidate Starts for Sarma624_29:

(Start: 45 @24971 has 263 MA's), (47, 24977), (Start: 50 @24986 has 1 MA's), (Start: 54 @24998 has 19 MA's), (126, 25205), (138, 25238),

Gene: Saskia_29 Start: 23070, Stop: 23390, Start Num: 55

Candidate Starts for Saskia_29:

(Start: 53 @23067 has 29 MA's), (Start: 55 @23070 has 109 MA's), (59, 23076), (95, 23136), (102, 23148), (121, 23190), (133, 23247),

Gene: Sassafras_34 Start: 29446, Stop: 29820, Start Num: 45

Candidate Starts for Sassafras_34:

(Start: 45 @29446 has 263 MA's), (47, 29452), (Start: 50 @29461 has 1 MA's), (Start: 54 @29473 has 19 MA's), (126, 29680), (138, 29713), (153, 29755),

Gene: SassyB_33 Start: 29077, Stop: 29451, Start Num: 45

Candidate Starts for SassyB_33:

(Start: 45 @29077 has 263 MA's), (Start: 50 @29092 has 1 MA's), (Start: 54 @29104 has 19 MA's), (126, 29311), (138, 29344),

Gene: SaturnRing_30 Start: 22524, Stop: 22826, Start Num: 66

Candidate Starts for SaturnRing_30:

(38, 22422), (Start: 49 @22479 has 3 MA's), (Start: 66 @22524 has 113 MA's), (Start: 78 @22554 has 12 MA's), (83, 22563),

Gene: Schatzie_48 Start: 42816, Stop: 43190, Start Num: 52

Candidate Starts for Schatzie_48:

(Start: 52 @42816 has 40 MA's), (69, 42858), (72, 42870), (117, 42981), (126, 43026), (138, 43068), (146, 43101), (147, 43110), (149, 43122),

Gene: Scherzo_32 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Scherzo_32:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (92, 24104), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (136, 24263), (138, 24272),

Gene: Schnauzer_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Schnauzer_30:

(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: Scitech_27 Start: 23917, Stop: 24285, Start Num: 43

Candidate Starts for Scitech_27:

(Start: 43 @23917 has 34 MA's), (85, 24010), (93, 24028), (122, 24115), (126, 24136),

Gene: Scorpio_28 Start: 21518, Stop: 21838, Start Num: 65

Candidate Starts for Scorpio_28:

(Start: 39 @21428 has 2 MA's), (Start: 65 @21518 has 36 MA's), (Start: 78 @21548 has 12 MA's), (80, 21554), (126, 21680), (137, 21710), (138, 21713), (147, 21734), (154, 21767), (170, 21830),

Gene: Scottish_34 Start: 30067, Stop: 30441, Start Num: 45

Candidate Starts for Scottish_34:

(Start: 45 @30067 has 263 MA's), (47, 30073), (Start: 50 @30082 has 1 MA's), (Start: 54 @30094 has 19 MA's), (126, 30301), (138, 30334), (153, 30376),

Gene: Scout_30 Start: 21825, Stop: 22127, Start Num: 66

Candidate Starts for Scout_30:

(38, 21726), (Start: 49 @21783 has 3 MA's), (Start: 66 @21825 has 113 MA's), (80, 21861), (116, 21933),

Gene: Seabastian_33 Start: 28977, Stop: 29348, Start Num: 46

Candidate Starts for Seabastian_33:

(Start: 45 @28974 has 263 MA's), (Start: 46 @28977 has 18 MA's), (Start: 50 @28989 has 1 MA's), (Start: 54 @29001 has 19 MA's), (126, 29208), (137, 29238), (138, 29241), (153, 29283),

Gene: Seagreen_34 Start: 28884, Stop: 29258, Start Num: 45

Candidate Starts for Seagreen_34:

(Start: 45 @28884 has 263 MA's), (Start: 46 @28887 has 18 MA's), (Start: 50 @28899 has 1 MA's), (Start: 54 @28911 has 19 MA's), (126, 29118), (138, 29151), (153, 29193),

Gene: SemperFi_32 Start: 22767, Stop: 23054, Start Num: 74

Candidate Starts for SemperFi_32:

(37, 22608), (Start: 74 @22767 has 17 MA's), (138, 22932), (147, 22953), (160, 23031),

Gene: Serenity_29 Start: 21447, Stop: 21770, Start Num: 58

Candidate Starts for Serenity_29:

(41, 21399), (Start: 58 @21447 has 27 MA's), (Start: 78 @21474 has 12 MA's), (80, 21480), (106, 21537), (119, 21576), (160, 21747),

Gene: Shaboozey_43 Start: 37604, Stop: 37990, Start Num: 52

Candidate Starts for Shaboozey_43:

(Start: 52 @37604 has 40 MA's), (Start: 68 @37643 has 1 MA's), (72, 37658), (77, 37667), (126, 37814), (131, 37838), (138, 37856), (145, 37886), (147, 37898),

Gene: Sham4_30 Start: 23070, Stop: 23393, Start Num: 53

Candidate Starts for Sham4_30:

(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: Shauna1_30 Start: 27898, Stop: 28272, Start Num: 45

Candidate Starts for Shauna1_30:

(Start: 45 @27898 has 263 MA's), (Start: 50 @27913 has 1 MA's), (Start: 54 @27925 has 19 MA's), (126, 28132), (138, 28165),

Gene: ShayRa_33 Start: 21527, Stop: 21868, Start Num: 55

Candidate Starts for ShayRa_33:

(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: SheaKeira_30 Start: 21980, Stop: 22342, Start Num: 55

Candidate Starts for SheaKeira_30:

(41, 21929), (Start: 55 @21980 has 109 MA's), (95, 22049), (102, 22061), (130, 22169), (147, 22232),

Gene: Sheen_31 Start: 25298, Stop: 25588, Start Num: 68

Candidate Starts for Sheen_31:

(Start: 68 @25298 has 1 MA's), (83, 25334), (121, 25415),

Gene: ShiLan_33 Start: 28980, Stop: 29354, Start Num: 45

Candidate Starts for ShiLan_33:

(Start: 45 @28980 has 263 MA's), (Start: 50 @28995 has 1 MA's), (Start: 54 @29007 has 19 MA's), (126, 29214), (137, 29244), (138, 29247), (153, 29289),

Gene: Shipwreck_31 Start: 27299, Stop: 27658, Start Num: 45

Candidate Starts for Shipwreck_31:

(Start: 45 @27299 has 263 MA's), (77, 27386), (126, 27524), (138, 27557),

Gene: ShowerHandel_33 Start: 28939, Stop: 29313, Start Num: 45

Candidate Starts for ShowerHandel_33:

(Start: 45 @28939 has 263 MA's), (Start: 50 @28954 has 1 MA's), (Start: 54 @28966 has 19 MA's), (126, 29173), (137, 29203), (138, 29206), (153, 29248),

Gene: ShrimpFriedEgg_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for ShrimpFriedEgg_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: ShroomBoi_30 Start: 27837, Stop: 28211, Start Num: 45

Candidate Starts for ShroomBoi_30:

(Start: 45 @27837 has 263 MA's), (Start: 46 @27840 has 18 MA's), (Start: 50 @27852 has 1 MA's), (Start: 54 @27864 has 19 MA's), (126, 28071), (138, 28104), (153, 28146),

Gene: Shweta_27 Start: 23918, Stop: 24298, Start Num: 43
Candidate Starts for Shweta_27:
(Start: 43 @23918 has 34 MA's), (122, 24128), (126, 24149),

Gene: SiSi_33 Start: 28745, Stop: 29119, Start Num: 45
Candidate Starts for SiSi_33:
(Start: 45 @28745 has 263 MA's), (47, 28751), (Start: 50 @28760 has 1 MA's), (Start: 54 @28772 has 19 MA's), (126, 28979), (138, 29012), (153, 29054),

Gene: Silvafighter_30 Start: 24740, Stop: 25120, Start Num: 43
Candidate Starts for Silvafighter_30:
(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: SilverChicken_41 Start: 28663, Stop: 29037, Start Num: 45
Candidate Starts for SilverChicken_41:
(Start: 45 @28663 has 263 MA's), (Start: 50 @28678 has 1 MA's), (Start: 54 @28690 has 19 MA's), (126, 28897), (138, 28930),

Gene: Silvy_30 Start: 24741, Stop: 25109, Start Num: 43
Candidate Starts for Silvy_30:
(Start: 43 @24741 has 34 MA's), (85, 24834), (93, 24852), (122, 24939), (126, 24960),

Gene: SimranZ1_36 Start: 29091, Stop: 29438, Start Num: 54
Candidate Starts for SimranZ1_36:
(Start: 45 @29064 has 263 MA's), (47, 29070), (Start: 50 @29079 has 1 MA's), (Start: 54 @29091 has 19 MA's), (126, 29298), (138, 29331), (153, 29373),

Gene: SkinnyPete_27 Start: 23780, Stop: 24148, Start Num: 43
Candidate Starts for SkinnyPete_27:
(Start: 43 @23780 has 34 MA's), (85, 23873), (93, 23891), (122, 23978), (126, 23999),

Gene: Sknot_30 Start: 22446, Stop: 22775, Start Num: 58
Candidate Starts for Sknot_30:
(31, 22287), (Start: 58 @22446 has 27 MA's), (Start: 78 @22473 has 12 MA's), (80, 22479), (105, 22533), (138, 22647), (142, 22662), (160, 22746),

Gene: Slim_35 Start: 30136, Stop: 30510, Start Num: 45
Candidate Starts for Slim_35:
(Start: 45 @30136 has 263 MA's), (47, 30142), (Start: 50 @30151 has 1 MA's), (Start: 54 @30163 has 19 MA's), (126, 30370), (138, 30403), (153, 30445),

Gene: Smeadley_27 Start: 21230, Stop: 21511, Start Num: 65
Candidate Starts for Smeadley_27:
(Start: 65 @21230 has 36 MA's), (Start: 78 @21257 has 12 MA's), (80, 21263), (90, 21287), (105, 21317), (157, 21464), (159, 21479), (163, 21491), (168, 21500),

Gene: Smeagan_32 Start: 22924, Stop: 23262, Start Num: 55
Candidate Starts for Smeagan_32:
(Start: 55 @22924 has 109 MA's), (Start: 78 @22960 has 12 MA's), (80, 22966), (102, 23011), (138, 23134), (142, 23149), (160, 23233),

Gene: SmellyB_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for SmellyB_33:
(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: Smurph_30 Start: 24740, Stop: 25120, Start Num: 43
Candidate Starts for Smurph_30:
(Start: 43 @24740 has 34 MA's), (122, 24950), (126, 24971),

Gene: SnapTap_30 Start: 22410, Stop: 22697, Start Num: 74
Candidate Starts for SnapTap_30:
(37, 22251), (Start: 74 @22410 has 17 MA's), (138, 22575), (147, 22596), (160, 22674),

Gene: Snape_30 Start: 23070, Stop: 23393, Start Num: 53
Candidate Starts for Snape_30:
(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: Snekmaggedon_27 Start: 23790, Stop: 24170, Start Num: 43
Candidate Starts for Snekmaggedon_27:
(Start: 43 @23790 has 34 MA's), (122, 24000), (126, 24021),

Gene: Snickers_32 Start: 22937, Stop: 23239, Start Num: 66
Candidate Starts for Snickers_32:
(48, 22889), (Start: 49 @22892 has 3 MA's), (Start: 66 @22937 has 113 MA's), (Start: 78 @22967 has 12 MA's),

Gene: Snorlax_24 Start: 20709, Stop: 21065, Start Num: 60
Candidate Starts for Snorlax_24:
(Start: 60 @20709 has 17 MA's), (Start: 78 @20748 has 12 MA's), (Start: 91 @20781 has 4 MA's),
(121, 20874), (136, 20931), (138, 20940), (171, 21057),

Gene: SoYo_32 Start: 22874, Stop: 23176, Start Num: 66
Candidate Starts for SoYo_32:
(48, 22826), (Start: 49 @22829 has 3 MA's), (Start: 66 @22874 has 113 MA's), (Start: 78 @22904 has 12 MA's),

Gene: SoilDragon_32 Start: 22651, Stop: 22953, Start Num: 66
Candidate Starts for SoilDragon_32:
(48, 22603), (Start: 49 @22606 has 3 MA's), (Start: 66 @22651 has 113 MA's), (Start: 78 @22681 has 12 MA's), (83, 22690),

Gene: Sonah_29 Start: 25472, Stop: 25831, Start Num: 45
Candidate Starts for Sonah_29:
(Start: 45 @25472 has 263 MA's), (77, 25559), (126, 25697), (138, 25730),

Gene: SororFago_30 Start: 21704, Stop: 21997, Start Num: 55
Candidate Starts for SororFago_30:
(31, 21545), (Start: 55 @21704 has 109 MA's),

Gene: Soshari_34 Start: 23046, Stop: 23348, Start Num: 66
Candidate Starts for Soshari_34:
(48, 22998), (Start: 49 @23001 has 3 MA's), (Start: 66 @23046 has 113 MA's), (Start: 78 @23076 has 12 MA's),

Gene: Soul22_38 Start: 29141, Stop: 29515, Start Num: 45

Candidate Starts for Soul22_38:

(Start: 45 @29141 has 263 MA's), (47, 29147), (Start: 50 @29156 has 1 MA's), (Start: 54 @29168 has 19 MA's), (77, 29228), (126, 29375), (138, 29408),

Gene: Soups_32 Start: 21527, Stop: 21868, Start Num: 55

Candidate Starts for Soups_32:

(Start: 55 @21527 has 109 MA's), (90, 21593), (95, 21605), (157, 21815), (167, 21851), (172, 21857),

Gene: South40_25 Start: 20998, Stop: 21354, Start Num: 63

Candidate Starts for South40_25:

(Start: 63 @20998 has 52 MA's), (Start: 78 @21037 has 12 MA's), (Start: 91 @21070 has 4 MA's), (121, 21163), (136, 21220),

Gene: Sparkdehlily_33 Start: 28862, Stop: 29236, Start Num: 45

Candidate Starts for Sparkdehlily_33:

(Start: 45 @28862 has 263 MA's), (Start: 46 @28865 has 18 MA's), (Start: 50 @28877 has 1 MA's), (Start: 54 @28889 has 19 MA's), (126, 29096), (138, 29129), (153, 29171),

Gene: Spartacus_35 Start: 29272, Stop: 29646, Start Num: 45

Candidate Starts for Spartacus_35:

(Start: 45 @29272 has 263 MA's), (Start: 46 @29275 has 18 MA's), (Start: 50 @29287 has 1 MA's), (Start: 54 @29299 has 19 MA's), (126, 29506), (137, 29536), (138, 29539), (153, 29581),

Gene: Speedwell_31 Start: 23703, Stop: 24053, Start Num: 63

Candidate Starts for Speedwell_31:

(24, 23367), (Start: 63 @23703 has 52 MA's), (70, 23715), (Start: 78 @23733 has 12 MA's), (Start: 91 @23766 has 4 MA's), (98, 23781), (114, 23826), (121, 23859), (128, 23895), (158, 24009),

Gene: Spike509_32 Start: 23047, Stop: 23349, Start Num: 66

Candidate Starts for Spike509_32:

(48, 22999), (Start: 49 @23002 has 3 MA's), (Start: 66 @23047 has 113 MA's), (Start: 78 @23077 has 12 MA's),

Gene: Spikelee_35 Start: 29010, Stop: 29384, Start Num: 45

Candidate Starts for Spikelee_35:

(Start: 45 @29010 has 263 MA's), (47, 29016), (Start: 50 @29025 has 1 MA's), (Start: 54 @29037 has 19 MA's), (126, 29244), (138, 29277), (153, 29319),

Gene: Spinach_27 Start: 23790, Stop: 24299, Start Num: 42

Candidate Starts for Spinach_27:

(10, 23220), (Start: 42 @23790 has 12 MA's), (90, 23916), (99, 23934), (122, 24009), (126, 24036), (130, 24057), (144, 24120), (151, 24189),

Gene: SpongeBob_27 Start: 23790, Stop: 24170, Start Num: 43

Candidate Starts for SpongeBob_27:

(Start: 43 @23790 has 34 MA's), (122, 24000), (126, 24021),

Gene: Spoonbill_33 Start: 29026, Stop: 29400, Start Num: 45

Candidate Starts for Spoonbill_33:

(Start: 45 @29026 has 263 MA's), (Start: 46 @29029 has 18 MA's), (Start: 50 @29041 has 1 MA's), (Start: 54 @29053 has 19 MA's), (126, 29260), (138, 29293), (153, 29335),

Gene: Spouty_32 Start: 24074, Stop: 24442, Start Num: 56

Candidate Starts for Spouty_32:

(40, 24014), (Start: 56 @24074 has 26 MA's), (79, 24110), (84, 24116), (102, 24155), (105, 24164), (130, 24263), (133, 24275), (138, 24305), (141, 24317), (153, 24347),

Gene: SqueakyClean_26 Start: 21339, Stop: 21692, Start Num: 62

Candidate Starts for SqueakyClean_26:

(Start: 62 @21339 has 29 MA's), (70, 21354), (Start: 75 @21366 has 1 MA's), (82, 21381), (Start: 91 @21405 has 4 MA's), (98, 21420), (121, 21477), (131, 21525),

Gene: Squint_49 Start: 40353, Stop: 40739, Start Num: 52

Candidate Starts for Squint_49:

(Start: 52 @40353 has 40 MA's), (Start: 68 @40392 has 1 MA's), (72, 40407), (77, 40416), (126, 40563), (131, 40587), (138, 40605), (145, 40635), (147, 40647),

Gene: Squirty_28 Start: 24272, Stop: 24643, Start Num: 43

Candidate Starts for Squirty_28:

(11, 23714), (20, 23873), (22, 23900), (Start: 43 @24272 has 34 MA's), (121, 24479), (122, 24482), (126, 24503), (138, 24536),

Gene: StAnnes_32 Start: 29341, Stop: 29715, Start Num: 45

Candidate Starts for StAnnes_32:

(Start: 45 @29341 has 263 MA's), (47, 29347), (Start: 50 @29356 has 1 MA's), (Start: 54 @29368 has 19 MA's), (126, 29575), (138, 29608),

Gene: Stagni_32 Start: 22965, Stop: 23267, Start Num: 66

Candidate Starts for Stagni_32:

(48, 22917), (Start: 49 @22920 has 3 MA's), (Start: 66 @22965 has 113 MA's), (Start: 78 @22995 has 12 MA's),

Gene: Stap_34 Start: 28918, Stop: 29292, Start Num: 45

Candidate Starts for Stap_34:

(Start: 45 @28918 has 263 MA's), (Start: 50 @28933 has 1 MA's), (Start: 54 @28945 has 19 MA's), (126, 29152), (138, 29185), (153, 29227),

Gene: Starcevich_37 Start: 29640, Stop: 30014, Start Num: 45

Candidate Starts for Starcevich_37:

(Start: 45 @29640 has 263 MA's), (Start: 50 @29655 has 1 MA's), (Start: 54 @29667 has 19 MA's), (126, 29874), (138, 29907), (153, 29949),

Gene: Stellammi_38 Start: 29050, Stop: 29436, Start Num: 52

Candidate Starts for Stellammi_38:

(Start: 52 @29050 has 40 MA's), (77, 29107), (87, 29131), (88, 29134), (113, 29197), (121, 29230), (126, 29254), (130, 29275), (154, 29392),

Gene: StepMih_32 Start: 22956, Stop: 23258, Start Num: 66

Candidate Starts for StepMih_32:

(48, 22908), (Start: 49 @22911 has 3 MA's), (Start: 66 @22956 has 113 MA's), (Start: 78 @22986 has 12 MA's),

Gene: StepHig9_27 Start: 21212, Stop: 21493, Start Num: 65

Candidate Starts for StepHig9_27:

(Start: 65 @21212 has 36 MA's), (Start: 78 @21239 has 12 MA's), (80, 21245), (90, 21269), (121, 21332), (157, 21446), (159, 21461), (163, 21473), (168, 21482),

Gene: StevieRay_29 Start: 25461, Stop: 25820, Start Num: 45

Candidate Starts for StevieRay_29:

(Start: 45 @25461 has 263 MA's), (126, 25686), (138, 25719),

Gene: StressBall_29 Start: 25744, Stop: 26103, Start Num: 45

Candidate Starts for StressBall_29:

(Start: 45 @25744 has 263 MA's), (77, 25831), (126, 25969), (138, 26002),

Gene: Strokeseat_34 Start: 29587, Stop: 29961, Start Num: 45

Candidate Starts for Strokeseat_34:

(Start: 45 @29587 has 263 MA's), (Start: 50 @29602 has 1 MA's), (Start: 54 @29614 has 19 MA's), (126, 29821), (138, 29854),

Gene: Strosahl_32 Start: 21369, Stop: 21710, Start Num: 55

Candidate Starts for Strosahl_32:

(Start: 55 @21369 has 109 MA's), (90, 21435), (95, 21447), (157, 21657), (167, 21693), (172, 21699),

Gene: Sudan_27 Start: 22268, Stop: 22612, Start Num: 63

Candidate Starts for Sudan_27:

(Start: 63 @22268 has 52 MA's), (Start: 78 @22292 has 12 MA's), (Start: 91 @22325 has 4 MA's), (98, 22340), (100, 22343), (104, 22352), (114, 22385), (128, 22454), (158, 22568),

Gene: Sujidade_26 Start: 21571, Stop: 21924, Start Num: 63

Candidate Starts for Sujidade_26:

(Start: 63 @21571 has 52 MA's), (Start: 91 @21643 has 4 MA's), (121, 21736), (130, 21781), (136, 21793), (157, 21880), (173, 21919),

Gene: Sunhee_29 Start: 21708, Stop: 22064, Start Num: 55

Candidate Starts for Sunhee_29:

(31, 21549), (Start: 55 @21708 has 109 MA's), (79, 21744), (106, 21801), (130, 21897), (131, 21900), (133, 21909), (138, 21939),

Gene: SunsetPointe_25 Start: 20581, Stop: 20934, Start Num: 63

Candidate Starts for SunsetPointe_25:

(Start: 63 @20581 has 52 MA's), (Start: 78 @20617 has 12 MA's), (Start: 91 @20650 has 4 MA's), (136, 20800), (138, 20809), (140, 20818), (154, 20863),

Gene: SuperAwesome_33 Start: 22206, Stop: 22502, Start Num: 55

Candidate Starts for SuperAwesome_33:

(Start: 55 @22206 has 109 MA's), (87, 22260), (126, 22359), (141, 22404),

Gene: SuperCallie99_33 Start: 22205, Stop: 22501, Start Num: 55

Candidate Starts for SuperCallie99_33:

(Start: 55 @22205 has 109 MA's), (87, 22259), (126, 22358), (141, 22403),

Gene: SuperGrey_34 Start: 29733, Stop: 30107, Start Num: 45

Candidate Starts for SuperGrey_34:

(Start: 45 @29733 has 263 MA's), (Start: 50 @29748 has 1 MA's), (Start: 54 @29760 has 19 MA's), (126, 29967), (138, 30000),

Gene: Superchunk_29 Start: 21092, Stop: 21400, Start Num: 55

Candidate Starts for Superchunk_29:

(41, 21041), (Start: 55 @21092 has 109 MA's), (69, 21116), (90, 21170), (Start: 91 @21173 has 4 MA's), (95, 21182), (105, 21203), (148, 21314),

Gene: Superphikiman_50 Start: 40425, Stop: 40811, Start Num: 52
Candidate Starts for Superphikiman_50:

(Start: 52 @40425 has 40 MA's), (Start: 68 @40464 has 1 MA's), (72, 40479), (77, 40488), (126, 40635), (131, 40659), (138, 40677), (145, 40707), (147, 40719),

Gene: Superstar_28 Start: 22437, Stop: 22820, Start Num: 62
Candidate Starts for Superstar_28:

(Start: 62 @22437 has 29 MA's), (Start: 66 @22446 has 113 MA's), (70, 22452), (Start: 75 @22464 has 1 MA's), (89, 22497), (104, 22530), (105, 22533), (111, 22554), (114, 22563), (118, 22575), (119, 22581), (130, 22641), (131, 22644), (175, 22800),

Gene: SwagPigglett_33 Start: 28750, Stop: 29124, Start Num: 45
Candidate Starts for SwagPigglett_33:

(Start: 45 @28750 has 263 MA's), (Start: 50 @28765 has 1 MA's), (Start: 54 @28777 has 19 MA's), (126, 28984), (137, 29014), (138, 29017), (153, 29059),

Gene: SweetiePie_30 Start: 22410, Stop: 22697, Start Num: 74
Candidate Starts for SweetiePie_30:

(37, 22251), (Start: 74 @22410 has 17 MA's), (138, 22575), (147, 22596), (160, 22674),

Gene: SwirlSquare_32 Start: 21246, Stop: 21536, Start Num: 55
Candidate Starts for SwirlSquare_32:

(41, 21198), (Start: 55 @21246 has 109 MA's), (83, 21306), (Start: 86 @21312 has 1 MA's), (105, 21357), (121, 21390),

Gene: Swirley_27 Start: 22230, Stop: 22520, Start Num: 78
Candidate Starts for Swirley_27:

(Start: 39 @22110 has 2 MA's), (Start: 65 @22200 has 36 MA's), (Start: 78 @22230 has 12 MA's), (80, 22236), (121, 22338), (126, 22362), (130, 22383), (138, 22395), (147, 22416), (154, 22449), (161, 22497), (170, 22512),

Gene: Switzerland_32 Start: 21520, Stop: 21861, Start Num: 55
Candidate Starts for Switzerland_32:

(Start: 55 @21520 has 109 MA's), (90, 21586), (95, 21598), (157, 21808), (167, 21844), (172, 21850),

Gene: SydNat_27 Start: 22485, Stop: 22805, Start Num: 65
Candidate Starts for SydNat_27:

(Start: 39 @22395 has 2 MA's), (Start: 65 @22485 has 36 MA's), (Start: 78 @22515 has 12 MA's), (80, 22521), (105, 22575), (121, 22623), (126, 22647), (130, 22668), (138, 22680), (147, 22701), (154, 22734), (170, 22797),

Gene: TDanisky_33 Start: 28862, Stop: 29236, Start Num: 45
Candidate Starts for TDanisky_33:

(Start: 45 @28862 has 263 MA's), (Start: 46 @28865 has 18 MA's), (Start: 50 @28877 has 1 MA's), (Start: 54 @28889 has 19 MA's), (126, 29096), (138, 29129), (153, 29171),

Gene: TNguyen7_30 Start: 22492, Stop: 22794, Start Num: 66
Candidate Starts for TNguyen7_30:

(38, 22390), (Start: 49 @22447 has 3 MA's), (Start: 66 @22492 has 113 MA's), (Start: 78 @22522 has 12 MA's), (83, 22531),

Gene: TagePighter_25 Start: 20709, Stop: 21065, Start Num: 60

Candidate Starts for TagePighter_25:

(Start: 60 @20709 has 17 MA's), (Start: 78 @20748 has 12 MA's), (Start: 91 @20781 has 4 MA's),
(121, 20874), (136, 20931), (138, 20940), (171, 21057),

Gene: Taj_33 Start: 28923, Stop: 29297, Start Num: 45

Candidate Starts for Taj_33:

(Start: 45 @28923 has 263 MA's), (Start: 50 @28938 has 1 MA's), (Start: 54 @28950 has 19 MA's),
(126, 29157), (138, 29190), (153, 29232),

Gene: Tapioca_30 Start: 24740, Stop: 25108, Start Num: 43

Candidate Starts for Tapioca_30:

(Start: 43 @24740 has 34 MA's), (122, 24938), (126, 24959),

Gene: TarsusIV_30 Start: 22501, Stop: 22845, Start Num: 54

Candidate Starts for TarsusIV_30:

(Start: 54 @22501 has 19 MA's), (77, 22561), (82, 22573), (94, 22591), (107, 22615), (120, 22651),
(138, 22720),

Gene: Tarynearal_26 Start: 22222, Stop: 22542, Start Num: 65

Candidate Starts for Tarynearal_26:

(Start: 39 @22132 has 2 MA's), (Start: 65 @22222 has 36 MA's), (Start: 78 @22252 has 12 MA's), (80,
22258), (121, 22360), (126, 22384), (130, 22405), (138, 22417), (147, 22438), (154, 22471), (161,
22519), (170, 22534),

Gene: Taurus_32 Start: 22962, Stop: 23264, Start Num: 66

Candidate Starts for Taurus_32:

(48, 22914), (Start: 49 @22917 has 3 MA's), (Start: 66 @22962 has 113 MA's), (Start: 78 @22992 has
12 MA's),

Gene: Tchotchke_33 Start: 28392, Stop: 28739, Start Num: 54

Candidate Starts for Tchotchke_33:

(Start: 45 @28365 has 263 MA's), (Start: 46 @28368 has 18 MA's), (Start: 50 @28380 has 1 MA's),
(Start: 54 @28392 has 19 MA's), (77, 28452), (126, 28599), (138, 28632), (153, 28674),

Gene: Techage_29 Start: 25476, Stop: 25835, Start Num: 45

Candidate Starts for Techage_29:

(Start: 45 @25476 has 263 MA's), (77, 25563), (126, 25701), (138, 25734),

Gene: Tefunt_25 Start: 21218, Stop: 21571, Start Num: 62

Candidate Starts for Tefunt_25:

(Start: 62 @21218 has 29 MA's), (Start: 66 @21227 has 113 MA's), (Start: 75 @21245 has 1 MA's),
(Start: 78 @21251 has 12 MA's), (82, 21260), (89, 21278), (100, 21302), (114, 21344), (131, 21425),
(143, 21461), (158, 21527), (164, 21551),

Gene: Temprado_33 Start: 22214, Stop: 22510, Start Num: 55

Candidate Starts for Temprado_33:

(41, 22163), (Start: 55 @22214 has 109 MA's), (84, 22262), (126, 22367), (141, 22412),

Gene: Terrific_34 Start: 22900, Stop: 23229, Start Num: 58

Candidate Starts for Terrific_34:

(31, 22741), (Start: 58 @22900 has 27 MA's), (Start: 78 @22927 has 12 MA's), (80, 22933), (105, 22987), (138, 23101), (142, 23116), (160, 23200),

Gene: Texage_30 Start: 23060, Stop: 23362, Start Num: 66

Candidate Starts for Texage_30:

(Start: 49 @23015 has 3 MA's), (Start: 66 @23060 has 113 MA's), (Start: 78 @23090 has 12 MA's), (83, 23099), (102, 23141), (116, 23168),

Gene: Theia_25 Start: 22156, Stop: 22566, Start Num: 39

Candidate Starts for Theia_25:

(Start: 39 @22156 has 2 MA's), (Start: 65 @22246 has 36 MA's), (Start: 78 @22276 has 12 MA's), (80, 22282), (126, 22408), (137, 22438), (138, 22441), (147, 22462), (170, 22558),

Gene: Thespis_29 Start: 25480, Stop: 25839, Start Num: 45

Candidate Starts for Thespis_29:

(Start: 45 @25480 has 263 MA's), (77, 25567), (126, 25705), (138, 25738),

Gene: Thestral_26 Start: 21345, Stop: 21665, Start Num: 78

Candidate Starts for Thestral_26:

(24, 20952), (Start: 62 @21312 has 29 MA's), (Start: 75 @21339 has 1 MA's), (Start: 78 @21345 has 12 MA's), (131, 21519), (143, 21555), (158, 21621), (164, 21645),

Gene: Thibault_44 Start: 40998, Stop: 41384, Start Num: 52

Candidate Starts for Thibault_44:

(Start: 52 @40998 has 40 MA's), (72, 41052), (77, 41061), (126, 41208), (131, 41232), (138, 41250), (145, 41280), (147, 41292),

Gene: ThreeRngTarjay_49 Start: 43904, Stop: 44299, Start Num: 52

Candidate Starts for ThreeRngTarjay_49:

(Start: 52 @43904 has 40 MA's), (69, 43946), (72, 43958), (117, 44069), (126, 44114), (138, 44156), (146, 44189), (147, 44198),

Gene: Tiffany_32 Start: 22857, Stop: 23159, Start Num: 66

Candidate Starts for Tiffany_32:

(48, 22809), (Start: 49 @22812 has 3 MA's), (Start: 66 @22857 has 113 MA's), (Start: 78 @22887 has 12 MA's),

Gene: Tiger_27 Start: 22154, Stop: 22444, Start Num: 78

Candidate Starts for Tiger_27:

(Start: 39 @22034 has 2 MA's), (Start: 65 @22124 has 36 MA's), (Start: 78 @22154 has 12 MA's), (80, 22160), (105, 22214), (126, 22286), (137, 22316), (138, 22319), (147, 22340), (170, 22436),

Gene: Timothy_30 Start: 23067, Stop: 23390, Start Num: 53

Candidate Starts for Timothy_30:

(Start: 53 @23067 has 29 MA's), (59, 23076), (95, 23136), (102, 23148), (121, 23190), (133, 23247),

Gene: TinaBelcher_25 Start: 21260, Stop: 21613, Start Num: 62

Candidate Starts for TinaBelcher_25:

(24, 20900), (Start: 62 @21260 has 29 MA's), (Start: 75 @21287 has 1 MA's), (Start: 78 @21293 has 12 MA's), (82, 21302), (131, 21467), (143, 21503), (158, 21569), (164, 21593),

Gene: TinyPebbles_32 Start: 23049, Stop: 23354, Start Num: 66

Candidate Starts for TinyPebbles_32:

(48, 23001), (Start: 49 @23004 has 3 MA's), (Start: 66 @23049 has 113 MA's), (Start: 78 @23079 has 12 MA's), (154, 23289),

Gene: TinyTimmy_30 Start: 23113, Stop: 23433, Start Num: 55

Candidate Starts for TinyTimmy_30:

(Start: 53 @23110 has 29 MA's), (Start: 55 @23113 has 109 MA's), (59, 23119), (95, 23179), (102, 23191), (121, 23233), (133, 23290),

Gene: TopsytheTRex_29 Start: 21554, Stop: 21877, Start Num: 58

Candidate Starts for TopsytheTRex_29:

(41, 21506), (Start: 58 @21554 has 27 MA's), (Start: 78 @21581 has 12 MA's), (80, 21587), (Start: 86 @21596 has 1 MA's), (100, 21629), (106, 21644),

Gene: Toaka_29 Start: 22167, Stop: 22535, Start Num: 57

Candidate Starts for Toaka_29:

(Start: 57 @22167 has 1 MA's), (95, 22236), (102, 22248), (105, 22257), (116, 22290), (130, 22356), (133, 22368),

Gene: Todacoro_31 Start: 23059, Stop: 23361, Start Num: 66

Candidate Starts for Todacoro_31:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: Toma_25 Start: 21283, Stop: 21636, Start Num: 63

Candidate Starts for Toma_25:

(Start: 63 @21283 has 52 MA's), (Start: 91 @21355 has 4 MA's), (121, 21448), (130, 21493), (136, 21505), (157, 21592), (173, 21631),

Gene: ToneTone_31 Start: 22140, Stop: 22436, Start Num: 55

Candidate Starts for ToneTone_31:

(41, 22089), (Start: 55 @22140 has 109 MA's), (126, 22293), (141, 22338),

Gene: TootsiePop_34 Start: 28648, Stop: 29022, Start Num: 45

Candidate Starts for TootsiePop_34:

(Start: 45 @28648 has 263 MA's), (Start: 50 @28663 has 1 MA's), (Start: 54 @28675 has 19 MA's), (77, 28735), (126, 28882), (138, 28915),

Gene: Tootsieroll_34 Start: 28814, Stop: 29188, Start Num: 45

Candidate Starts for Tootsieroll_34:

(Start: 45 @28814 has 263 MA's), (47, 28820), (Start: 50 @28829 has 1 MA's), (Start: 54 @28841 has 19 MA's), (126, 29048), (137, 29078), (138, 29081),

Gene: Topiatin_36 Start: 29465, Stop: 29824, Start Num: 50

Candidate Starts for Topiatin_36:

(Start: 45 @29450 has 263 MA's), (Start: 46 @29453 has 18 MA's), (Start: 50 @29465 has 1 MA's), (Start: 54 @29477 has 19 MA's), (126, 29684), (138, 29717), (153, 29759),

Gene: Toro_32 Start: 25243, Stop: 25533, Start Num: 68

Candidate Starts for Toro_32:

(Start: 68 @25243 has 1 MA's), (83, 25279), (Start: 91 @25300 has 4 MA's), (121, 25360),

Gene: Tortellini_28 Start: 25473, Stop: 25922, Start Num: 42

Candidate Starts for Tortellini_28:

(19, 25074), (21, 25101), (Start: 42 @25473 has 12 MA's), (70, 25554), (99, 25611), (120, 25671), (124, 25704), (130, 25734),

Gene: Tortoise12_30 Start: 24740, Stop: 25120, Start Num: 43

Candidate Starts for Tortoise12_30:

(Start: 43 @24740 has 34 MA's), (93, 24863), (122, 24950), (126, 24971),

Gene: Totinger_34 Start: 28746, Stop: 29120, Start Num: 45

Candidate Starts for Totinger_34:

(Start: 45 @28746 has 263 MA's), (Start: 46 @28749 has 18 MA's), (Start: 50 @28761 has 1 MA's), (Start: 54 @28773 has 19 MA's), (126, 28980), (138, 29013),

Gene: Triste_24 Start: 20697, Stop: 21053, Start Num: 60

Candidate Starts for Triste_24:

(Start: 60 @20697 has 17 MA's), (Start: 78 @20736 has 12 MA's), (Start: 91 @20769 has 4 MA's), (121, 20862), (136, 20919), (138, 20928), (171, 21045),

Gene: Triumph_27 Start: 21263, Stop: 21616, Start Num: 62

Candidate Starts for Triumph_27:

(Start: 62 @21263 has 29 MA's), (Start: 75 @21290 has 1 MA's), (Start: 78 @21296 has 12 MA's), (105, 21359), (121, 21422), (130, 21467), (158, 21572), (164, 21596),

Gene: Trixie_33 Start: 24085, Stop: 24438, Start Num: 55

Candidate Starts for Trixie_33:

(31, 23926), (Start: 55 @24085 has 109 MA's), (Start: 86 @24130 has 1 MA's), (105, 24175), (121, 24229), (133, 24286), (135, 24292), (136, 24307), (141, 24328), (160, 24415),

Gene: Trooper_30 Start: 22271, Stop: 22612, Start Num: 54

Candidate Starts for Trooper_30:

(32, 22112), (Start: 54 @22271 has 19 MA's), (77, 22331), (82, 22343), (94, 22361), (120, 22421),

Gene: TrvxScott_24 Start: 21290, Stop: 21643, Start Num: 62

Candidate Starts for TrvxScott_24:

(24, 20930), (Start: 62 @21290 has 29 MA's), (Start: 75 @21317 has 1 MA's), (Start: 78 @21323 has 12 MA's), (82, 21332), (131, 21497), (143, 21533), (164, 21623),

Gene: TuanPN_24 Start: 20736, Stop: 21092, Start Num: 60

Candidate Starts for TuanPN_24:

(Start: 60 @20736 has 17 MA's), (Start: 78 @20775 has 12 MA's), (Start: 91 @20808 has 4 MA's), (121, 20901), (136, 20958), (138, 20967), (171, 21084),

Gene: Tubs_32 Start: 24008, Stop: 24376, Start Num: 56

Candidate Starts for Tubs_32:

(40, 23948), (Start: 56 @24008 has 26 MA's), (79, 24044), (84, 24050), (92, 24071), (102, 24089), (105, 24098), (130, 24197), (133, 24209), (136, 24230), (138, 24239),

Gene: Tucker_33 Start: 22226, Stop: 22522, Start Num: 55

Candidate Starts for Tucker_33:

(41, 22175), (Start: 55 @22226 has 109 MA's), (126, 22379), (141, 22424),

Gene: Turbido_32 Start: 22927, Stop: 23265, Start Num: 55

Candidate Starts for Turbido_32:

(Start: 55 @22927 has 109 MA's), (Start: 78 @22963 has 12 MA's), (80, 22969), (102, 23014), (138, 23137), (142, 23152), (160, 23236),

Gene: Tweety_33 Start: 28981, Stop: 29355, Start Num: 45

Candidate Starts for Tweety_33:

(Start: 45 @28981 has 263 MA's), (Start: 50 @28996 has 1 MA's), (Start: 54 @29008 has 19 MA's), (126, 29215), (138, 29248),

Gene: Twigg_27 Start: 22231, Stop: 22515, Start Num: 80

Candidate Starts for Twigg_27:

(Start: 39 @22105 has 2 MA's), (Start: 65 @22195 has 36 MA's), (Start: 78 @22225 has 12 MA's), (80, 22231), (121, 22333), (126, 22357), (130, 22378), (138, 22390), (147, 22411), (154, 22444), (161, 22492), (170, 22507),

Gene: Ugenie5_29 Start: 24041, Stop: 24409, Start Num: 56

Candidate Starts for Ugenie5_29:

(40, 23981), (Start: 56 @24041 has 26 MA's), (79, 24077), (84, 24083), (92, 24104), (102, 24122), (105, 24131), (130, 24230), (133, 24242), (136, 24263), (138, 24272),

Gene: UncleRicky_36 Start: 30077, Stop: 30451, Start Num: 45

Candidate Starts for UncleRicky_36:

(Start: 45 @30077 has 263 MA's), (Start: 46 @30080 has 18 MA's), (Start: 50 @30092 has 1 MA's), (Start: 54 @30104 has 19 MA's), (126, 30311), (138, 30344), (153, 30386),

Gene: UnionJack_27 Start: 21253, Stop: 21573, Start Num: 65

Candidate Starts for UnionJack_27:

(Start: 39 @21163 has 2 MA's), (Start: 65 @21253 has 36 MA's), (Start: 78 @21283 has 12 MA's), (80, 21289), (126, 21415), (130, 21436), (138, 21448), (147, 21469), (154, 21502), (170, 21565),

Gene: Unstoppable_25 Start: 20585, Stop: 20938, Start Num: 63

Candidate Starts for Unstoppable_25:

(Start: 63 @20585 has 52 MA's), (Start: 78 @20621 has 12 MA's), (Start: 91 @20654 has 4 MA's), (136, 20804), (138, 20813), (140, 20822), (154, 20867),

Gene: Updawg_32 Start: 22888, Stop: 23217, Start Num: 58

Candidate Starts for Updawg_32:

(31, 22729), (Start: 58 @22888 has 27 MA's), (Start: 78 @22915 has 12 MA's), (80, 22921), (105, 22975), (138, 23089), (142, 23104), (160, 23188),

Gene: Urza_27 Start: 21493, Stop: 21849, Start Num: 63

Candidate Starts for Urza_27:

(1, 19951), (5, 20686), (6, 20755), (7, 20761), (8, 20764), (9, 20779), (23, 21061), (24, 21127), (Start: 63 @21493 has 52 MA's), (Start: 78 @21526 has 12 MA's), (Start: 91 @21559 has 4 MA's), (114, 21619), (121, 21652), (128, 21688), (130, 21697), (169, 21835),

Gene: VA6_30 Start: 22452, Stop: 22718, Start Num: 53

Candidate Starts for VA6_30:

(31, 22296), (Start: 53 @22452 has 29 MA's), (Start: 86 @22497 has 1 MA's), (89, 22506), (95, 22521),

Gene: VC3_33 Start: 22440, Stop: 22706, Start Num: 53

Candidate Starts for VC3_33:

(31, 22284), (Start: 53 @22440 has 29 MA's), (Start: 86 @22485 has 1 MA's), (89, 22494), (95, 22509),

Gene: VRedHorse_33 Start: 28935, Stop: 29309, Start Num: 45

Candidate Starts for VRedHorse_33:

(Start: 45 @28935 has 263 MA's), (Start: 50 @28950 has 1 MA's), (Start: 54 @28962 has 19 MA's), (126, 29169), (138, 29202),

Gene: Vanisoa_29 Start: 21862, Stop: 22248, Start Num: 55

Candidate Starts for Vanisoa_29:

(41, 21811), (Start: 55 @21862 has 109 MA's), (Start: 63 @21883 has 52 MA's), (79, 21916), (95, 21949), (97, 21952), (130, 22069), (133, 22081),

Gene: Vanseggelen_31 Start: 21971, Stop: 22357, Start Num: 63

Candidate Starts for Vanseggelen_31:

(Start: 63 @21971 has 52 MA's), (Start: 75 @21989 has 1 MA's), (Start: 78 @21995 has 12 MA's), (Start: 91 @22028 has 4 MA's), (98, 22043), (104, 22055), (114, 22088), (128, 22157), (176, 22340),

Gene: Velveteen_29 Start: 24971, Stop: 25345, Start Num: 45

Candidate Starts for Velveteen_29:

(Start: 45 @24971 has 263 MA's), (47, 24977), (Start: 50 @24986 has 1 MA's), (Start: 54 @24998 has 19 MA's), (126, 25205), (138, 25238),

Gene: Venti_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Venti_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: Veracruz_30 Start: 23014, Stop: 23361, Start Num: 49

Candidate Starts for Veracruz_30:

(Start: 49 @23014 has 3 MA's), (Start: 66 @23059 has 113 MA's), (Start: 78 @23089 has 12 MA's), (83, 23098), (102, 23140), (116, 23167),

Gene: Verse_26 Start: 22967, Stop: 23314, Start Num: 63

Candidate Starts for Verse_26:

(Start: 63 @22967 has 52 MA's), (Start: 75 @22985 has 1 MA's), (Start: 78 @22991 has 12 MA's), (Start: 91 @23024 has 4 MA's), (98, 23039), (104, 23051), (114, 23084), (128, 23153), (158, 23267),

Gene: Veteran_33 Start: 28784, Stop: 29158, Start Num: 45

Candidate Starts for Veteran_33:

(Start: 45 @28784 has 263 MA's), (47, 28790), (Start: 50 @28799 has 1 MA's), (Start: 54 @28811 has 19 MA's), (126, 29018), (138, 29051), (153, 29093),

Gene: Vidya_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Vidya_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: VieEnRose_27 Start: 21399, Stop: 21755, Start Num: 63

Candidate Starts for VieEnRose_27:

(2, 19875), (3, 20007), (4, 20016), (6, 20661), (7, 20667), (8, 20670), (9, 20685), (12, 20769), (23, 20967), (24, 21033), (34, 21246), (Start: 63 @21399 has 52 MA's), (Start: 78 @21432 has 12 MA's), (Start: 91 @21465 has 4 MA's), (114, 21525), (121, 21558), (128, 21594), (141, 21636), (169, 21741),

Gene: Violac_34 Start: 29466, Stop: 29840, Start Num: 45

Candidate Starts for Violac_34:

(Start: 45 @29466 has 263 MA's), (Start: 50 @29481 has 1 MA's), (Start: 54 @29493 has 19 MA's), (126, 29700), (138, 29733),

Gene: Vivum_34 Start: 28762, Stop: 29136, Start Num: 45

Candidate Starts for Vivum_34:

(Start: 45 @28762 has 263 MA's), (Start: 50 @28777 has 1 MA's), (Start: 54 @28789 has 19 MA's), (94, 28891), (126, 28996), (138, 29029), (153, 29071),

Gene: Vix_32 Start: 23045, Stop: 23347, Start Num: 66

Candidate Starts for Vix_32:

(48, 22997), (Start: 49 @23000 has 3 MA's), (Start: 66 @23045 has 113 MA's), (Start: 78 @23075 has 12 MA's),

Gene: VohminGhazi_33 Start: 22213, Stop: 22509, Start Num: 55

Candidate Starts for VohminGhazi_33:

(Start: 55 @22213 has 109 MA's), (87, 22267), (126, 22366), (141, 22411),

Gene: WST1_28 Start: 22626, Stop: 23003, Start Num: 43

Candidate Starts for WST1_28:

(Start: 43 @22626 has 34 MA's), (93, 22749), (96, 22755), (153, 22932),

Gene: Wachhund_33 Start: 28938, Stop: 29312, Start Num: 45

Candidate Starts for Wachhund_33:

(Start: 45 @28938 has 263 MA's), (Start: 50 @28953 has 1 MA's), (Start: 54 @28965 has 19 MA's), (126, 29172), (138, 29205),

Gene: Waits_32 Start: 21375, Stop: 21716, Start Num: 55

Candidate Starts for Waits_32:

(Start: 55 @21375 has 109 MA's), (90, 21441), (95, 21453), (157, 21663), (167, 21699), (172, 21705),

Gene: Wanda_57 Start: 43615, Stop: 44010, Start Num: 52

Candidate Starts for Wanda_57:

(Start: 52 @43615 has 40 MA's), (69, 43657), (72, 43669), (117, 43780), (126, 43825), (138, 43867), (146, 43900), (147, 43909), (149, 43921),

Gene: Warrior24_32 Start: 21379, Stop: 21720, Start Num: 55

Candidate Starts for Warrior24_32:

(Start: 55 @21379 has 109 MA's), (90, 21445), (95, 21457), (157, 21667), (167, 21703), (172, 21709),

Gene: Watson_32 Start: 22955, Stop: 23257, Start Num: 66

Candidate Starts for Watson_32:

(48, 22907), (Start: 49 @22910 has 3 MA's), (Start: 66 @22955 has 113 MA's), (Start: 78 @22985 has 12 MA's),

Gene: Wee_34 Start: 29461, Stop: 29835, Start Num: 45

Candidate Starts for Wee_34:

(Start: 45 @29461 has 263 MA's), (Start: 50 @29476 has 1 MA's), (Start: 54 @29488 has 19 MA's), (126, 29695), (138, 29728), (153, 29770),

Gene: WeiHuaDA_36 Start: 24801, Stop: 25109, Start Num: 86

Candidate Starts for WeiHuaDA_36:

(31, 24597), (Start: 55 @24756 has 109 MA's), (Start: 86 @24801 has 1 MA's), (105, 24846), (121, 24900), (133, 24957), (136, 24978), (141, 24999), (160, 25086),

Gene: Werner_24 Start: 20707, Stop: 21063, Start Num: 60

Candidate Starts for Werner_24:

(Start: 60 @20707 has 17 MA's), (Start: 78 @20746 has 12 MA's), (Start: 91 @20779 has 4 MA's), (121, 20872), (136, 20929), (138, 20938), (171, 21055),

Gene: Whabigail7_32 Start: 22915, Stop: 23253, Start Num: 55

Candidate Starts for Whabigail7_32:

(Start: 55 @22915 has 109 MA's), (Start: 78 @22951 has 12 MA's), (80, 22957), (102, 23002), (138, 23125), (142, 23140), (160, 23224),

Gene: Whatever_24 Start: 20707, Stop: 21063, Start Num: 60

Candidate Starts for Whatever_24:

(Start: 60 @20707 has 17 MA's), (Start: 78 @20746 has 12 MA's), (Start: 91 @20779 has 4 MA's), (121, 20872), (136, 20929), (138, 20938), (171, 21055),

Gene: Whatsapiecost_34 Start: 29197, Stop: 29571, Start Num: 45

Candidate Starts for Whatsapiecost_34:

(Start: 45 @29197 has 263 MA's), (Start: 50 @29212 has 1 MA's), (Start: 54 @29224 has 19 MA's), (126, 29431), (138, 29464),

Gene: Whouxphf_34 Start: 29255, Stop: 29629, Start Num: 45

Candidate Starts for Whouxphf_34:

(Start: 45 @29255 has 263 MA's), (Start: 50 @29270 has 1 MA's), (Start: 54 @29282 has 19 MA's), (126, 29489), (138, 29522), (153, 29564),

Gene: WideWale_32 Start: 22888, Stop: 23217, Start Num: 58

Candidate Starts for WideWale_32:

(31, 22729), (Start: 58 @22888 has 27 MA's), (Start: 78 @22915 has 12 MA's), (80, 22921), (105, 22975), (138, 23089), (142, 23104), (160, 23188),

Gene: Wiks_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for Wiks_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: WillSterrel_35 Start: 30386, Stop: 30760, Start Num: 45

Candidate Starts for WillSterrel_35:

(Start: 45 @30386 has 263 MA's), (Start: 46 @30389 has 18 MA's), (Start: 50 @30401 has 1 MA's), (Start: 54 @30413 has 19 MA's), (126, 30620), (137, 30650), (138, 30653), (153, 30695),

Gene: Willsammy_28 Start: 25140, Stop: 25586, Start Num: 42

Candidate Starts for Willsammy_28:

(Start: 42 @25140 has 12 MA's), (70, 25221), (99, 25278), (120, 25338), (124, 25371), (130, 25401),

Gene: Wolpertinger_29 Start: 23070, Stop: 23393, Start Num: 53

Candidate Starts for Wolpertinger_29:

(Start: 53 @23070 has 29 MA's), (59, 23079), (95, 23139), (102, 23151), (121, 23193), (133, 23250),

Gene: Wooldri_34 Start: 22874, Stop: 23176, Start Num: 66

Candidate Starts for Wooldri_34:

(48, 22826), (Start: 49 @22829 has 3 MA's), (Start: 66 @22874 has 113 MA's), (Start: 78 @22904 has 12 MA's),

Gene: WorldCup_28 Start: 21862, Stop: 22227, Start Num: 55

Candidate Starts for WorldCup_28:

(41, 21811), (Start: 55 @21862 has 109 MA's), (92, 21925), (95, 21931), (97, 21934), (131, 22054), (136, 22084), (138, 22093), (141, 22105),

Gene: WunderPhul_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for WunderPhul_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: XFactor_33 Start: 28942, Stop: 29316, Start Num: 45

Candidate Starts for XFactor_33:

(Start: 45 @28942 has 263 MA's), (Start: 46 @28945 has 18 MA's), (Start: 50 @28957 has 1 MA's), (Start: 54 @28969 has 19 MA's), (126, 29176), (138, 29209),

Gene: Xavia_29 Start: 26111, Stop: 26473, Start Num: 45

Candidate Starts for Xavia_29:

(Start: 45 @26111 has 263 MA's), (Start: 46 @26114 has 18 MA's), (96, 26234), (121, 26312), (122, 26315),

Gene: Xeno_29 Start: 24506, Stop: 24874, Start Num: 43

Candidate Starts for Xeno_29:

(Start: 43 @24506 has 34 MA's), (85, 24599), (93, 24617), (122, 24704), (126, 24725),

Gene: Xerxes_30 Start: 24737, Stop: 25117, Start Num: 43

Candidate Starts for Xerxes_30:

(Start: 43 @24737 has 34 MA's), (122, 24947), (126, 24968),

Gene: XianYue_30 Start: 22369, Stop: 22722, Start Num: 55

Candidate Starts for XianYue_30:

(Start: 55 @22369 has 109 MA's), (Start: 65 @22378 has 36 MA's), (Start: 86 @22414 has 1 MA's), (102, 22450), (103, 22453), (131, 22561), (141, 22612), (147, 22621), (160, 22699),

Gene: Xiaokay_46 Start: 40662, Stop: 41036, Start Num: 52

Candidate Starts for Xiaokay_46:

(Start: 52 @40662 has 40 MA's), (69, 40704), (72, 40716), (117, 40827), (126, 40872), (138, 40914), (146, 40947), (147, 40956), (149, 40968),

Gene: Xula_27 Start: 25181, Stop: 25525, Start Num: 46

Candidate Starts for Xula_27:

(18, 24716), (25, 24869), (27, 24938), (30, 25034), (Start: 45 @25178 has 263 MA's), (Start: 46 @25181 has 18 MA's), (121, 25364), (122, 25367), (126, 25388), (138, 25421),

Gene: Yasdnii_24 Start: 20732, Stop: 21088, Start Num: 60

Candidate Starts for Yasdnii_24:

(Start: 60 @20732 has 17 MA's), (Start: 78 @20771 has 12 MA's), (Start: 91 @20804 has 4 MA's), (121, 20897), (136, 20954), (138, 20963), (171, 21080),

Gene: Yecey3_31 Start: 22095, Stop: 22433, Start Num: 55

Candidate Starts for Yecey3_31:

(Start: 55 @22095 has 109 MA's), (95, 22164), (97, 22167), (102, 22176), (134, 22296), (165, 22413),

Gene: Yeet_49 Start: 43036, Stop: 43431, Start Num: 52

Candidate Starts for Yeet_49:

(Start: 52 @43036 has 40 MA's), (69, 43078), (72, 43090), (117, 43201), (126, 43246), (138, 43288), (146, 43321), (147, 43330),

Gene: Yokurt_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for Yokurt_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: Yorick_33 Start: 28937, Stop: 29311, Start Num: 45

Candidate Starts for Yorick_33:

(Start: 45 @28937 has 263 MA's), (Start: 50 @28952 has 1 MA's), (Start: 54 @28964 has 19 MA's), (126, 29171), (137, 29201), (138, 29204), (153, 29246),

Gene: Yosif_27 Start: 22496, Stop: 22846, Start Num: 61

Candidate Starts for Yosif_27:

(Start: 61 @22496 has 1 MA's), (Start: 91 @22565 has 4 MA's), (105, 22595), (138, 22724),

Gene: Zainub_27 Start: 21723, Stop: 22076, Start Num: 62

Candidate Starts for Zainub_27:

(36, 21579), (Start: 62 @21723 has 29 MA's), (Start: 75 @21750 has 1 MA's), (Start: 78 @21756 has 12 MA's), (118, 21861), (119, 21867), (131, 21930), (143, 21966), (158, 22032), (164, 22056),

Gene: Zaka_33 Start: 22208, Stop: 22504, Start Num: 55

Candidate Starts for Zaka_33:

(41, 22157), (Start: 55 @22208 has 109 MA's), (84, 22256), (126, 22361), (141, 22406),

Gene: ZamZam_29 Start: 22424, Stop: 22771, Start Num: 63

Candidate Starts for ZamZam_29:

(Start: 63 @22424 has 52 MA's), (Start: 65 @22430 has 36 MA's), (Start: 78 @22448 has 12 MA's), (Start: 91 @22481 has 4 MA's), (98, 22496), (100, 22499), (104, 22508), (114, 22541), (121, 22574), (128, 22610), (158, 22724), (166, 22754),

Gene: Zarafa_30 Start: 22587, Stop: 22889, Start Num: 66

Candidate Starts for Zarafa_30:

(38, 22488), (Start: 49 @22545 has 3 MA's), (Start: 66 @22587 has 113 MA's), (80, 22623), (116, 22695),

Gene: Zelink_52 Start: 44851, Stop: 45225, Start Num: 52

Candidate Starts for Zelink_52:

(Start: 52 @44851 has 40 MA's), (Start: 68 @44890 has 1 MA's), (72, 44905), (77, 44914), (126, 45061), (131, 45085), (138, 45103), (145, 45133), (147, 45145),

Gene: Zemlya_26 Start: 21274, Stop: 21627, Start Num: 63

Candidate Starts for Zemlya_26:

(Start: 63 @21274 has 52 MA's), (Start: 91 @21346 has 4 MA's), (121, 21439), (136, 21496), (157, 21583),

Gene: Zerg_33 Start: 28797, Stop: 29171, Start Num: 45

Candidate Starts for Zerg_33:

(Start: 45 @28797 has 263 MA's), (47, 28803), (Start: 50 @28812 has 1 MA's), (Start: 54 @28824 has 19 MA's), (126, 29031), (138, 29064),

Gene: Zetzy_31 Start: 22500, Stop: 22805, Start Num: 66

Candidate Starts for Zetzy_31:

(48, 22452), (Start: 49 @22455 has 3 MA's), (Start: 66 @22500 has 113 MA's), (Start: 78 @22530 has 12 MA's), (83, 22539), (Start: 91 @22560 has 4 MA's), (130, 22674),

Gene: Zilizebeth_29 Start: 25485, Stop: 25844, Start Num: 45

Candidate Starts for Zilizebeth_29:

(Start: 45 @25485 has 263 MA's), (77, 25572), (126, 25710), (138, 25743),

Gene: Zimmer_32 Start: 24617, Stop: 24979, Start Num: 55

Candidate Starts for Zimmer_32:

(Start: 55 @24617 has 109 MA's), (Start: 65 @24626 has 36 MA's), (79, 24653), (Start: 86 @24662 has 1 MA's), (97, 24689), (105, 24707), (131, 24809), (132, 24812), (133, 24818), (136, 24839), (138, 24848), (141, 24860), (147, 24869),

Gene: Zizzle_33 Start: 28881, Stop: 29255, Start Num: 45

Candidate Starts for Zizzle_33:

(Start: 45 @28881 has 263 MA's), (Start: 50 @28896 has 1 MA's), (Start: 54 @28908 has 19 MA's), (126, 29115), (137, 29145), (138, 29148), (153, 29190),

Gene: Zolita_26 Start: 22486, Stop: 22806, Start Num: 65

Candidate Starts for Zolita_26:

(Start: 39 @22396 has 2 MA's), (Start: 65 @22486 has 36 MA's), (Start: 78 @22516 has 12 MA's), (80, 22522), (105, 22576), (121, 22624), (126, 22648), (130, 22669), (138, 22681), (147, 22702), (154, 22735), (170, 22798),

Gene: Zulu_33 Start: 22207, Stop: 22503, Start Num: 55

Candidate Starts for Zulu_33:

(41, 22156), (Start: 55 @22207 has 109 MA's), (84, 22255), (126, 22360), (141, 22405),

Gene: phiCAM_27 Start: 24270, Stop: 24608, Start Num: 70

Candidate Starts for phiCAM_27:

(Start: 63 @24258 has 52 MA's), (70, 24270), (Start: 78 @24288 has 12 MA's), (Start: 91 @24321 has 4 MA's), (98, 24336), (104, 24348), (112, 24375), (114, 24381), (121, 24414), (128, 24450),

Gene: phiHau3_27 Start: 20948, Stop: 21301, Start Num: 62

Candidate Starts for phiHau3_27:

(36, 20807), (Start: 62 @20948 has 29 MA's), (Start: 75 @20975 has 1 MA's), (89, 21008), (Start: 91 @21014 has 4 MA's), (105, 21044), (121, 21107), (130, 21152), (158, 21257), (164, 21281),