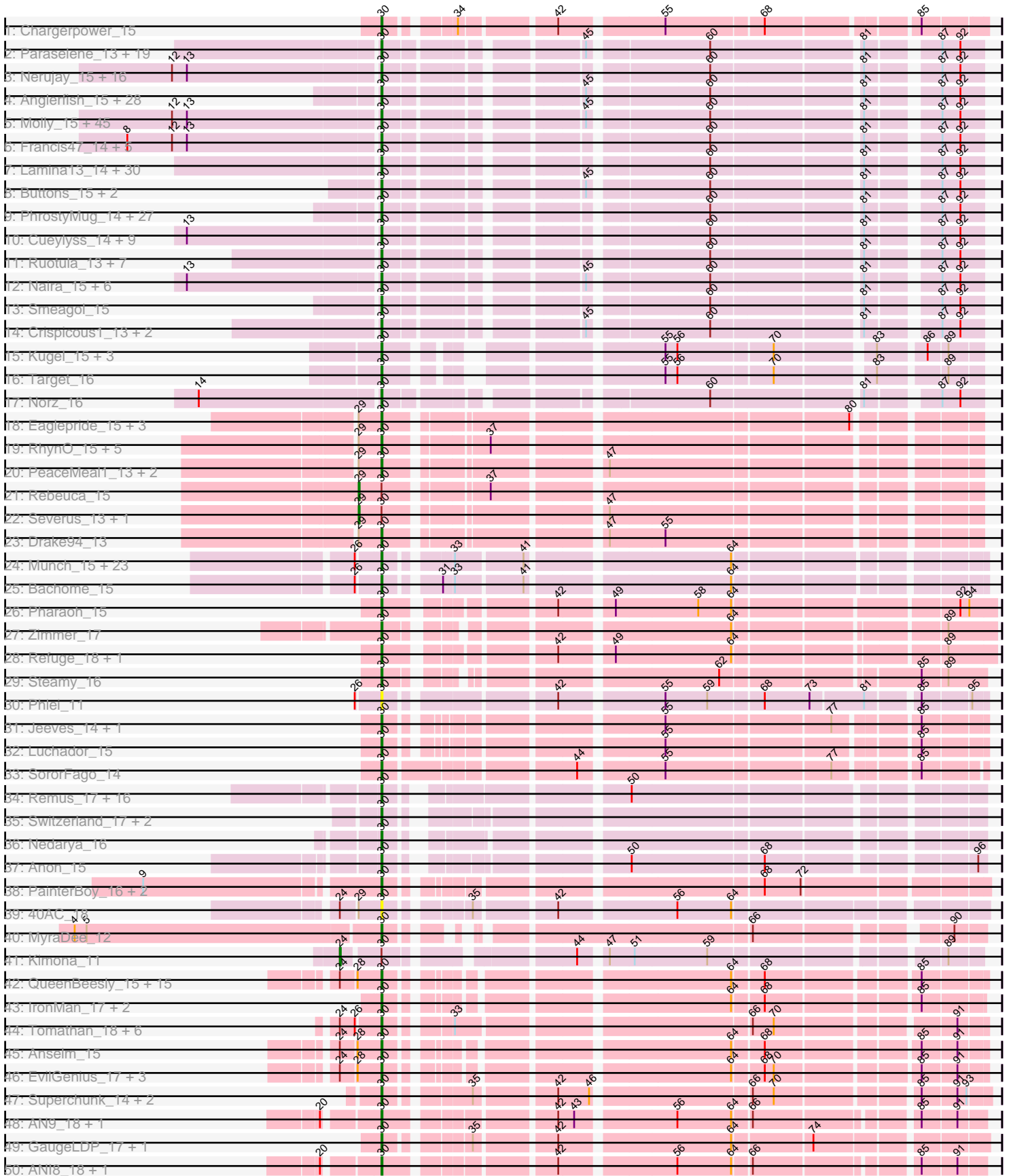
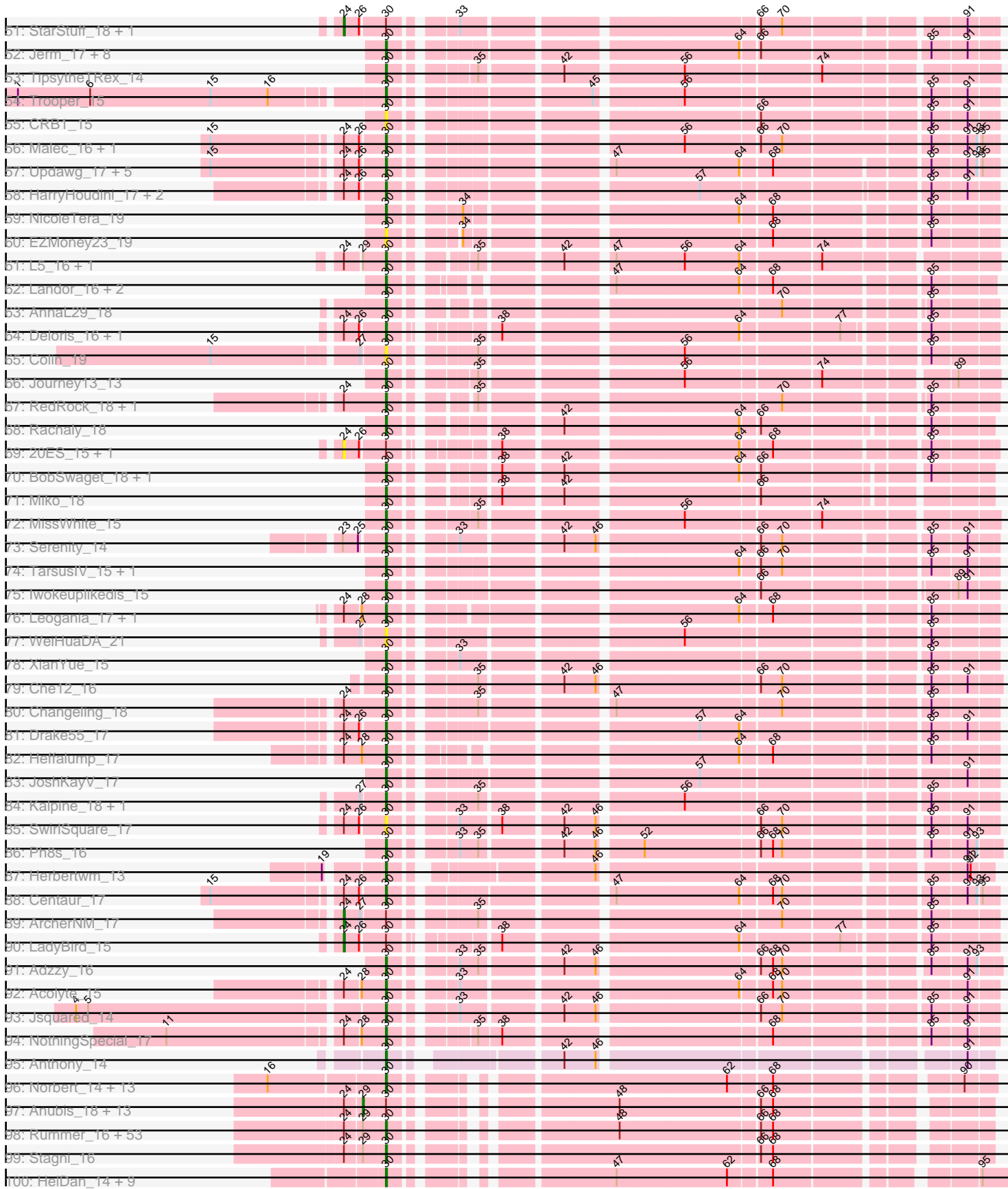


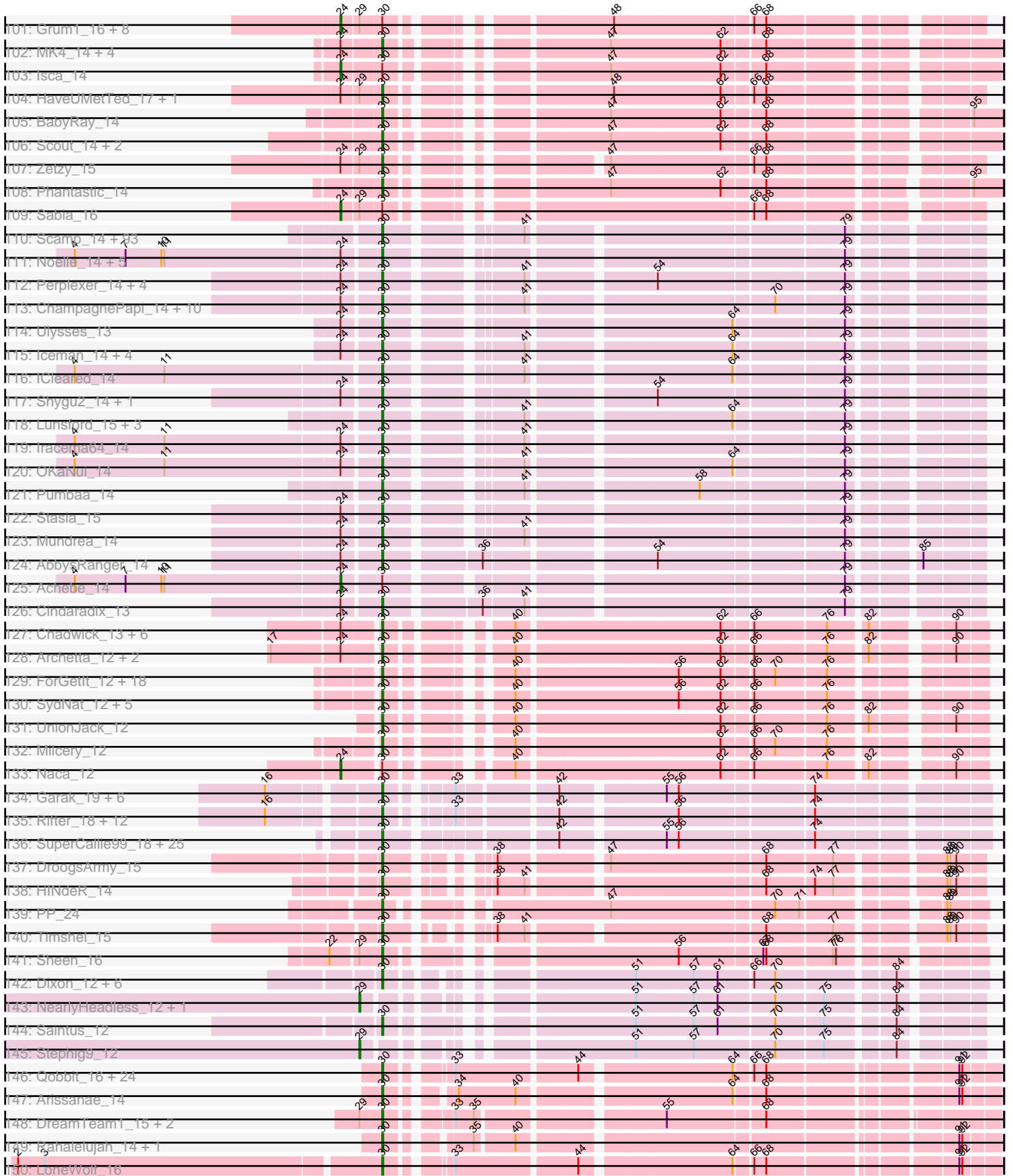
Pham 169553



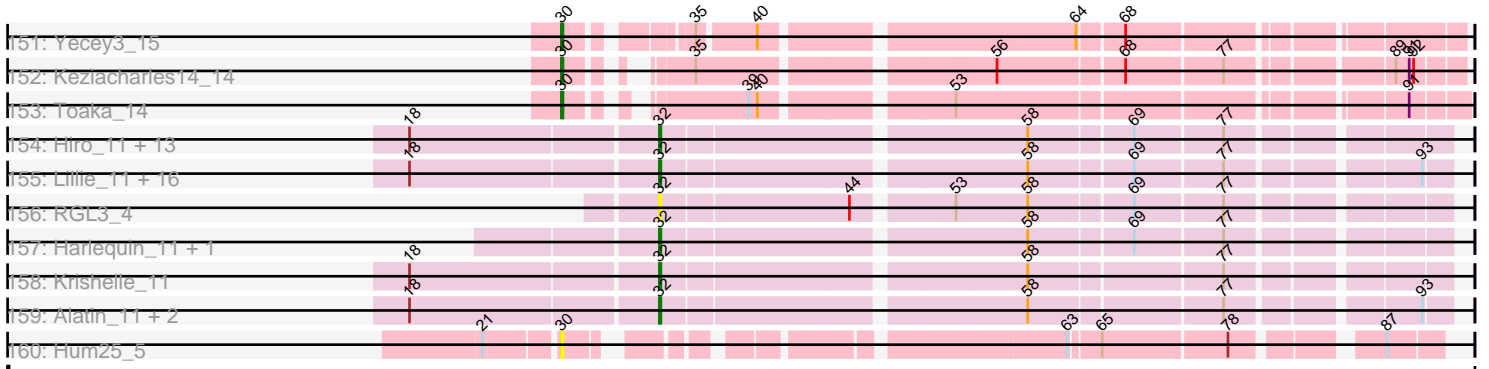
Pham 169553



Pham 169553



Pham 169553



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 169553 Report

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

Pham number 169553 has 836 members, 49 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_15
- Track 2 : Paraselene_13, Scowl_15, Briton15_16, Jasper_15, Seanderson_15, Bruns_13, DrFeelGood_13, Abrogate_150, Rajelicia_14, Sagefire_15, Dreamboat_15, Bethlehem_14, Doom_14, Rhynn_14, Arlo_13, Bob3_13, TwoPeat_15, Rubeus_15, Mryolo_13, Arcanine_15
- Track 3 : Nerujay_15, Pepe_15, Pita2_16, Agaliana_14, Dulcie_13, PSullivan_16, Blue_14, Graduation_16, SkiPole_16, LilBib_15, Ringer_14, Fascinus_13, Maroc7_13, Rutherferd_16, IgnatiusPatJac_13, Dexes_15, BluSpix_14
- Track 4 : Anglerfish_15, Kenmech_17, A6_12, Squee_15, Euphoria_14, Petruccio_14, Michley_14, Parliament_13, StewieG_13, Corvo_14, Dussy_15, Switzer_15, Abbyshoes_15, Barriga_14, Makemake_14, Froghopper_15, Marsha_14, Hermia_16, Magnar_14, Lesedi_13, TheloniousMonk_16, Zephyr_14, ShortQueendom_13, DreamCatcher_17, BK1_12, Pari_15, Tripl3t_15, U2_14, Espresso_14
- Track 5 : Molly_15, Altman_15, Bircsak_14, Lopton_15, Petp2012_16, Papez_16, Gompeii16_14, Acme_16, Rohr_15, Alvin_15, Ciao_14, Magnito_13, Burton_15, PattyP_16, MPlant7149_13, Tote_16, Monet_16, Homines_14, BPBiabs31_15, Pippin_16, Thor_14, HarryOW_15, ConceptII_14, Ichabod_15, Gyzlar_16, Swole_16, GrecoEtereo_15, Marge_15, Museum_16, Rufus_15, BigMau_16, Zeeculate_13, JackSparrow_15, Pinto_16, KSSJEB_14, Sibs6_16, Slagathor_15, QTRlifeCrisis_14, Jerm2_15, SarFire_14, JC27_16, Wheeler_14, Nhonho_14, JuliaChild_16, Marcell_14, STLscum_15
- Track 6 : Francis47_14, Topgun_14, Wilkins_14, Eyeball_14, Ajay_14, Violet_13
- Track 7 : Lamina13_14, BeesKnees_15, MetalQZJ_14, StrongArm_13, MaryBeth_14, Hami1_16, Payneful_13, PherrisBueller_15, Teodoridan_12, MrGordo_14, Dynamix_15, NEHalo_14, Bexan_13, Carlyle_16, Jorgensen_14, Alsfro_18, GageAP_16, HanShotFirst_14, DD5_15, Pelly_15, Zeuska_15, Marchy_12, Lockley_14, KBG_15, CactusRose_13, Big3_14, McGuire_15, Snazzy_12, Trouble_14, Seabiscuit_16, SpikeBT_16
- Track 8 : Buttons_15, BaconJack_16, Licorice_16
- Track 9 : PhrostyMug_14, Perseus_15, Solon_14, PacerPaul_14, Beatrix_13, Mule_14, Niza_16, Bones_14, Sumter_13, Gandalf20_15, Aeneas_16, Adahisdi_15, Chanagan_13, Moose_13, Tasp14_15, Fajezeel_16, Paphu_13, Ashballer_13, Turj99_13, Kanely_15, Killigrew_12, Atkinbua_15, Greg_16, SwissCheese_14, Forsytheast_13, Manatee_15, Oogway_13, PinkPlastic_13
- Track 10 : Cueylyss_14, ILeeKay_16, Edtherson_15, Watermelon_16, Bigfoot_13, Treddle_16, KyMonks1A_16, Applejack_14, Sunshine924_13, AFIS_14

- Track 11 : Ruotula_13, BigPaolini_15, Sorpresa_13, Sandaddy_13, Sanya_13, Peterson_17, PascalRango_13, Gwendoluna_16
- Track 12 : Naira_15, Fushigi_15, Hope4ever_14, RidgeCB_14, Traft412_16, Smairt_15, Fenn_15
- Track 13 : Smeagol_15
- Track 14 : Crispicious1_13, HermioneGrange_14, Ohno789_14
- Track 15 : Kugel_15, Kykar_12, Bxb1_13, BillKnuckles_15
- Track 16 : Target_16
- Track 17 : Norz_16
- Track 18 : Eaglepride_15, Goose_14, OKCentral2016_14, Chupacabra_14
- Track 19 : RhynO_15, Twister_14, Topanga_14, WalterMcMickey_14, Edison31_14, Kristoff_15
- Track 20 : PeaceMeal1_13, KittenMittens_13, Poompha_13
- Track 21 : Rebeuca_15
- Track 22 : Severus_13, Trike_12
- Track 23 : Drake94_13
- Track 24 : Munch_15, Salz_15, Lucivia_15, Orange_15, Insomnia_15, Jabith_15, TinyTimmy_14, Et2Brutus_14, Gilberta_15, Flaverint_15, Fibonacci_15, Bowtie_15, Sham4_15, Petersenfast_14, Ebony_15, MaCh_15, Joselito_15, Aneem_15, Timothy_15, Mulciber_15, Bud_15, Mabel_15, Hutc2_15, Snape_15
- Track 25 : Bachome_15
- Track 26 : Pharaoh_15
- Track 27 : Zimmer_17
- Track 28 : Refuge_18, DARTHPhader_16
- Track 29 : Steamy_16
- Track 30 : Phlei_11
- Track 31 : Jeeves_14, Gail_14
- Track 32 : Luchador_15
- Track 33 : SororFago_14
- Track 34 : Remus_17, MinecraftSteve_18, LastResort_17, ShayRa_18, Rosalind_17, KatherineG_17, DekHockey33_17, Oofda_18, Waits_17, Nebulosus_17, ReMo_17, Epsocamisio_17, Looper_18, Anaysia_17, Strosahl_17, Soups_17, Boohoo_17
- Track 35 : Switzerland_17, Battleship_18, JSwag_17
- Track 36 : Nedarya_16
- Track 37 : Anon_15
- Track 38 : PainterBoy_16, Lucyedi_16, EagleEye_17
- Track 39 : 40AC_18
- Track 40 : MyraDee_12
- Track 41 : Kimona_11
- Track 42 : QueenBeesly_15, AN3_15, Georgie2_16, SweetiePie_15, Power_15, DudeLittle_15, VA6_15, Fameo_15, Retro23_15, Dalmatian_15, QueenB2_15, SnapTap_15, Benvolio_15, Echild_15, Crucio_15, FiringLine_15
- Track 43 : IronMan_17, Jaan_18, Phaded_18
- Track 44 : Tomathan_18, D29_16, DBQu4n_18, Duplo_18, Kerberos_18, D32_18, Naji_18
- Track 45 : Anselm_15
- Track 46 : EvilGenius_17, ChipMunk_17, SemperFi_17, KingCyrus_17
- Track 47 : Superchunk_14, Caraxes_14, Odin_14
- Track 48 : AN9_18, VC3_18
- Track 49 : GaugeLDP_17, BabyBack_17
- Track 50 : ANI8_18, C3_13
- Track 51 : StarStuff_18, Pomar16_18

- Track 52 : Jerm_17, Dignity_17, AbbyPaige_17, Whabigail7_17, Bugsy_17, Smeagan_17, Leviathan_17, LilTurb_17, Agape74_17
- Track 53 : TopsytheTRex_14
- Track 54 : Trooper_15
- Track 55 : CRB1_15
- Track 56 : Malec_16, Larenn_16
- Track 57 : Updawg_17, NaSiaTalie_15, Flare16_15, Equemioh13_17, MiculUcigas_15, WideWale_17
- Track 58 : HarryHoudini_17, Baehexic_16, Piro94_16
- Track 59 : NicoleTera_19
- Track 60 : EZMoney23_19
- Track 61 : L5_16, Koduck_15
- Track 62 : Landor_16, Pukovnik_17, Bactobuster_16
- Track 63 : AnnaL29_18
- Track 64 : Deloris_16, BengiVuitton_16
- Track 65 : Colin_19
- Track 66 : Journey13_13
- Track 67 : RedRock_18, Loser_18
- Track 68 : Rachaly_18
- Track 69 : 20ES_15, First_0015
- Track 70 : BobSwaget_18, Lokk_18
- Track 71 : Miko_18
- Track 72 : MissWhite_15
- Track 73 : Serenity_14
- Track 74 : TarsusIV_15, Turbido_17
- Track 75 : Iwokeuplikedis_15
- Track 76 : Leogania_17, BiancaTri92_17
- Track 77 : WeiHuaDA_21
- Track 78 : XianYue_15
- Track 79 : Che12_16
- Track 80 : Changeling_18
- Track 81 : Drake55_17
- Track 82 : Heffalump_17
- Track 83 : JoshKayV_17
- Track 84 : Kalpine_18, Trixie_18
- Track 85 : SwirlSquare_17
- Track 86 : Ph8s_16
- Track 87 : Herbertwm_13
- Track 88 : Centaur_17
- Track 89 : ArcherNM_17
- Track 90 : LadyBird_15
- Track 91 : Adzzy_16
- Track 92 : Acolyte_15
- Track 93 : Jsquared_14
- Track 94 : NothingSpecial_17
- Track 95 : Anthony_14
- Track 96 : Norbert_14, Popcicle_15, Veracruz_14, Noella_15, ResDef_15, Panamaxus_15, Pocahontas_15, Caviar_15, Todacoro_15, Hookmount_15, Texage_14, Margo_15, Lambert1_15, QuinnKiro_14
- Track 97 : Anubis_18, Misomonster_18, Louie6_16, Jobu08_16, Hercules11_16, Methuselah_16, LugYA_18, Beauxregard13_16, Aglet_16, Vix_16, Tiffany_16, Marie_16, Penny1_16, MarQuardt_16

- Track 98 : Rummer_16, JenCasNa_16, LarryKay_16, Spike509_16, P28Green_16, DaHudson_16, Heliosoles_16, SoYo_16, Grub_16, StepMih_16, KADY_17, HashRod_17, Bxz2_16, GingkoMaracino_16, PGHhamlin_18, Ollie_16, MadMarie_16, Farber_16, ACFishhook_16, OlanP_16, Microwolf_16, AgronaGT15_16, AugsMagnumOpus_18, Dieselweasel_16, Gemma_16, MuchMore_18, Manu_17, BuzzBuzz_15, JHC117_16, Colbster_16, GtownJaz_16, Phranny_17, Kalb97_17, Grif_16, Lilith_16, Kalnoky_17, Phoebe_16, Daishi_15, Taurus_16, LBerry_16, Soshari_18, Sabinator_16, PurpleHaze_16, EpicPhail_16, JeppNRM_17, Pembroke_16, Snickers_16, Phoxy_16, Fernando_16, Marius_17, Groupthink_17, Pawn_17, Watson_16, Reba_17
- Track 99 : Stagni_16
- Track 100 : HelDan_14, Giroux_14, Bugatti_14, Puppy_15, Idleandcovert_14, Pistachio_15, Heathen_14, TNguyen7_14, BlueBird_15, SaturnRing_14
- Track 101 : Grum1_16, Wooldri_18, Mainiac_16, PotatoSplit_17, BreSam8_16, MoneyMay_16, Malinsilva_18, SoilDragon_16, Cullens_16
- Track 102 : MK4_14, Rockstar_14, B1_12, JF4_14, JF2_14
- Track 103 : Isca_14
- Track 104 : HaveUMetTed_17, PhishRPhriends_15
- Track 105 : BabyRay_14
- Track 106 : Scout_14, Fred313_14, MA5_14
- Track 107 : Zetzy_15
- Track 108 : Phantastic_14
- Track 109 : Sabia_16
- Track 110 : Scamp_14, Baby16_14, BubbleTrouble_14, Spino_14, Roosevelt_14, Eurydice_14, Kremtemulon_13, Taquarus_14, Kyee_14, Pipcraft_14, Maverick_14, Cocoaberry_14, NorthStar_14, Eagle_13, Commander_14, BellusTerra_14, Chaph_14, Connomayer_14, JetBlade_14, TinaFeyge_14, Abdiel_14, Phacado_14, Funston_14, Shaka_14, Wizard007_14, LittleGuy_14, Ohfah_14, Kratark_14, LeoAvram_14, Florean_14, MeeZee_14, Alberto7_15, Romney_14, Polymorphads_14, Dhanush_14, Sparxx_14, NotAPhaseMom_14, Gadost_14, Morrow_14, Nebs_14, Medusa_14, HamSlice_13, Bartimeaus_14, KFPoly_14, Blackmoor_14, Bruiser_14, Arturo_13, Eros_14, Burger_13, Thanksgivukkah_14, Clarenza_14, Albee_14, Houdini22_14, Flux_14, YoSam321_14, Palestino_14, TiroTheta9_14, Maxo_14, Mazhar510_14, Citius_14, Melvin_14, LochMonster_14, Ruin_14, TygerBlood_14, PeterPeter_14, Wilbur_14, Eapen_14, Avle17_14, Felipe_14, Sabertooth_14, Annyong_14, Koreni_13, LappelDuVide_13, Eris_14, JoongJeon_14, Broseidon_14, Druantia_14, Lorenzo_14, Holli_14, Relief_14, CentreCat_14, Millski_14, Kampy_14, Nyxis_14, Nemo27_14, Kingmustik0402_14, Jaykayelowell_14, LittleB_14, Wander_14, DirtyDunning_14, Bombshell_14, TroyPia_14, Caelakin_14, Skipitt_14
- Track 111 : Noelle_14, Backyardigan_14, Badger_14, Xena_14, Datway_14, Wile_14
- Track 112 : Perplexer_14, Bumblebee11_14, PetiteSangsue_14, Katalie136_14, Morpher26_14
- Track 113 : ChampagnePapi_14, LHTSCC_14, BangNhom_13, Obama12_14, Cerulean_14, Happiness_14, Stink_14, AvatarAhPeg_14, Tinybot_13, SheldonCooper_14, Miramae_14
- Track 114 : Ulysses_13
- Track 115 : Iceman_14, Deano_14, Camperdownii_13, Peaches_14, Phighter1804_14
- Track 116 : ICleared_14
- Track 117 : Shygu2_14, Cici_14
- Track 118 : Lunsford_15, Cintron_14, Lemur_14, Phontbonne_14

- Track 119 : Iracema64_14
- Track 120 : OKaNui_14
- Track 121 : Pumbaa_14
- Track 122 : Stasia_15
- Track 123 : Mundrea_14
- Track 124 : AbbysRanger_14
- Track 125 : Achebe_14
- Track 126 : Cindaradix_13
- Track 127 : Chadwick_13, PetterN_13, Benedict_12, Jabiru_12, Scorpia_13, Airmid_12, ElTiger69_12
- Track 128 : Archetta_12, PickleBack_12, Lev2_12
- Track 129 : ForGetIt_12, Jovo_12, Phlorence_12, Cuco_12, Tarynearal_11, Dublin_11, HuhtaEnerson15_12, Theia_11, Swirley_12, MarysWell_11, Coog_12, LittleCherry_12, Midas2_12, George_11, Bonamassa_12, AgentM_12, Micasa_11, Tiger_12, Conspiracy_12
- Track 130 : SydNat_12, Bluefalcon_11, Ghouboy_12, Zolita_11, Discoknowium_12, Aragog_12
- Track 131 : UnionJack_12
- Track 132 : Milcery_12
- Track 133 : Naca_12
- Track 134 : Garak_19, Tucker_18, Roksolana_18, Helmet_19, Artemis2UCLA_18, Indra_18, Hexamo_18
- Track 135 : Rifter_18, Koko_18, Hammer_18, Gladiator_18, Yokurt_18, Gruunaga_18, WunderPhul_18, Blue7_18, Wiks_18, Zulu_18, Lilbunny_17, ToneTone_17, Zaka_18
- Track 136 : SuperCallie99_18, Cookiedough_18, Isiphiwo_18, JewelBug_18, CloudWang3_18, Pmask_18, VohminGhazi_18, Jeffabunny_18, McFly_18, Jordennis_18, SmellyB_18, Neeharika16_18, Newrala_18, Dorothea_17, Chartreuse_18, DaVinci_18, Blinn1_18, BABullseye_18, Candra_18, Kipper29_18, Priamo_18, EricB_18, Kazan_18, Hoot_18, SuperAwesome_18, GreedyLawyer_18
- Track 137 : DroogsArmy_15
- Track 138 : HINdeR_14
- Track 139 : PP_24
- Track 140 : Timshel_15
- Track 141 : Sheen_16
- Track 142 : Dixon_12, Smeadley_12, Danforth_11, Expelliarmus_11, Groundhog_11, Roary_12, Astro_12
- Track 143 : NearlyHeadless_12, Phillis_12
- Track 144 : Saintus_12
- Track 145 : Stephig9_12
- Track 146 : Qobbit_16, Tubs_16, Phaeder_16, Darrell_17, Priya_16, ExplosioNervosa_16, Aliter_16, Ugenie5_13, Phonnegut_16, Fayely_16, Maminiaina_16, Pioneer_16, Scherzo_16, Eidsmoe_16, BogosyJay_16, Myxus_16, EmyBug_16, Conquerage_16, HortumSL17_16, Catalina_16, Spouty_15, Alma_16, Beemo_16, Elephantoon_16, PackMan_16
- Track 147 : Arissanae_14
- Track 148 : DreamTeam1_15, SheaKeira_15, Charm_15
- Track 149 : Rahalelujah_14, Vanisoa_14
- Track 150 : LoneWolf_16
- Track 151 : Yecey3_15
- Track 152 : Keziacharles14_14
- Track 153 : Toaka_14

- Track 154 : Hiro_11, Dinger_11, Rasputin_11, BobbyDazzler_11, Takoda_11, AngryOrchard_10, Bryce_11, AppleCloud_9, Yoncess_11, Bonanza_11, Partridge_11, Alpacados_10, Yogi_11, PhailMary_10
- Track 155 : Lillie_11, Belenaria_11, RER2_4, Shuman_11, Bradshaw_11, Gollum_11, Swann_11, UhSalsa_11, Erik_11, Nancinator_11, Natosaleda_11, TWAMP_11, Espica_11, CosmicSans_11, RexFury_11, Rhodalysa_11, Phrankenstein_11
- Track 156 : RGL3_4
- Track 157 : Harlequin_11, Jester_11
- Track 158 : Krishelle_11
- Track 159 : Alatin_11, Naiad_11, StCroix_11
- Track 160 : Hum25_5

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

The start number called the most often in the published annotations is 30, it was called in 713 of the 787 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 40AC_18, A6_12, ACFishhook_16, AFIS_14, AN3_15, AN9_18, ANI8_18, AbbyPaige_17, AbbysRanger_14, Abbysshoes_15, Abdiel_14, Abrogate_150, Acme_16, Acolyte_15, Adahisdi_15, Adzzy_16, Aeneas_16, Agaliana_14, Agape74_17, AgentM_12, AgronaGT15_16, Airmid_12, Ajay_14, Albee_14, Alberto7_15, Aliter_16, Alma_16, Alsfro_18, Altman_15, Alvin_15, Anaysia_17, Aneem_15, Anglerfish_15, AnnaL29_18, Annyong_14, Anon_15, Anselm_15, Anthony_14, Applejack_14, Aragog_12, Arcanine_15, Archetta_12, Arissanae_14, Arlo_13, Artemis2UCLA_18, Arturo_13, Ashballer_13, Astro_12, Atkinbua_15, AugsMagnumOpus_18, AvatarAhPeg_14, Avle17_14, B1_12, BABullseye_18, BK1_12, BPBiobs31_15, Baby16_14, BabyBack_17, BabyRay_14, Bachome_15, Backyardigan_14, BaconJack_16, Bactobuster_16, Badger_14, Baehexic_16, BangNhom_13, Barriga_14, Bartimeaus_14, Battleship_18, Beatrix_13, Beemo_16, BeesKnees_15, BellusTerra_14, Benedict_12, BengiVuitton_16, Benvolio_15, Bethlehem_14, Bexan_13, BiancaTri92_17, Big3_14, BigMau_16, BigPaolini_15, Bigfoot_13, BillKnuckles_15, Bircsak_14, Blackmoor_14, Blinn1_18, BluSpix_14, Blue7_18, BlueBird_15, Blue_14, Bluefalcon_11, Bob3_13, BobSwaget_18, BogosyJay_16, Bombshell_14, Bonamassa_12, Bones_14, Boohoo_17, Bowtie_15, Briton15_16, Broseidon_14, Bruiser_14, Brunns_13, BubbleTrouble_14, Bud_15, Bugatti_14, Buggy_17, Bumblebee11_14, Burger_13, Burton_15, Buttons_15, BuzzBuzz_15, Bxb1_13, Bxz2_16, C3_13, CRB1_15, CactusRose_13, Caelakin_14, Camperdownii_13, Candra_18, Caraxes_14, Carlyle_16, Catalina_16, Caviar_15, Centaur_17, CentreCat_14, Cerulean_14, Chadwick_13, ChampagnePapi_14, Chanagan_13, Changeling_18, Chaph_14, Chargerpower_15, Charm_15, Chartreuse_18, Che12_16, ChipMunk_17, Chupacabra_14, Ciao_14, Cici_14, Cindaradix_13, Cintron_14, Citius_14, Clarenza_14, CloudWang3_18, Cocoaberry_14, Colbster_16, Colin_19, Commander_14, ConceptII_14, Connomayer_14, Conquerage_16, Conspiracy_12, Coog_12, Cookiedough_18, Corvo_14, Crispicous1_13, Crucio_15, Cuco_12, Cueylyss_14, D29_16, D32_18, DBQu4n_18, DD5_15, DaHudson_16, DaVinci_18, Daishi_15, Dalmatian_15, Danforth_11, Darrell_17, DarthPhader_16, Datway_14, Deano_14, DekHockey33_17, Deloris_16, Dexes_15, Dhanush_14, Dieselweasel_16,

Dignity_17, DirtyDunning_14, Discoknowium_12, Dixon_12, Doom_14, Dorothea_17, DrFeelGood_13, Drake55_17, Drake94_13, DreamCatcher_17, DreamTeam1_15, Dreamboat_15, DroogsArmy_15, Druantia_14, Dublin_11, DudeLittle_15, Dulcie_13, Duplo_18, Dussy_15, Dynamix_15, EZMoney23_19, EagleEye_17, Eagle_13, Eaglepride_15, Eapen_14, Ebony_15, Echild_15, Edison31_14, Edtherson_15, Eidsmoe_16, ElTiger69_12, Elephantoon_16, EmyBug_16, EpicPhail_16, Epsocamisio_17, Equemioh13_17, EricB_18, Eris_14, Eros_14, Espresso_14, Et2Brutus_14, Euphoria_14, Eurydice_14, EvilGenius_17, Expelliarmus_11, ExplosioNervosa_16, Eyeball_14, Fajezeel_16, Fameo_15, Farber_16, Fascinus_13, Fayely_16, Fenn_15, Fernando_16, Fibonacci_15, FiringLine_15, Flare16_15, Flaverint_15, Florean_14, Flux_14, ForGetIt_12, Forsytheast_13, Francis47_14, Fred313_14, Froghopper_15, Funston_14, Fushigi_15, Gadost_14, GageAP_16, Gail_14, Gandalf20_15, Garak_19, GaugeLDP_17, Gemma_16, George_11, Georgie2_16, Ghoulboy_12, Gilberta_15, GingkoMaracino_16, Giroux_14, Gladiator_18, Gompeii16_14, Goose_14, Graduation_16, GrecoEtereo_15, GreedyLawyer_18, Greg_16, Grif_16, Groundhog_11, Grouphink_17, Grub_16, Gruunaga_18, GtownJaz_16, Gwendoluna_16, Gyzlar_16, HINdeR_14, HamSlice_13, Hami1_16, Hammer_18, HanShotFirst_14, Happiness_14, HarryHoudini_17, HarryOW_15, HashRod_17, HaveUMetTed_17, Heathen_14, Heffalump_17, HelDan_14, Heliosoles_16, Helmet_19, Herbertwm_13, Hermia_16, HermioneGrange_14, Hexamo_18, Holli_14, Homines_14, Hookmount_15, Hoot_18, Hope4ever_14, HortumSL17_16, Houdini22_14, HuhtaEnerson15_12, Hum25_5, Hutc2_15, ICleared_14, ILeeKay_16, Iceman_14, Ichabod_15, Idleandcovert_14, IgnatiusPatJac_13, Indra_18, Insomnia_15, Iracema64_14, IronMan_17, Isiphiwo_18, Iwokeuplikedis_15, JC27_16, JF2_14, JF4_14, JHC117_16, JSwag_17, Jaan_18, Jabiru_12, Jabith_15, JackSparrow_15, Jasper_15, Jaykayelowell_14, Jeeves_14, Jeffabunny_18, JenCasNa_16, JeppNRM_17, Jerm2_15, Jerm_17, JetBlade_14, JewelBug_18, JoongJeon_14, Jordennis_18, Jorgensen_14, Joselito_15, JoshKayV_17, Journey13_13, Jovo_12, Jsquared_14, JuliaChild_16, KADY_17, KBG_15, KFPoly_14, KSSJEB_14, Kalb97_17, Kalnoky_17, Kalpine_18, Kampy_14, Kanely_15, Katalie136_14, KatherineG_17, Kazan_18, Kenmech_17, Kerberos_18, Keziacharles14_14, Killigrew_12, KingCyrus_17, Kingmustik0402_14, Kipper29_18, KittenMittens_13, Koduck_15, Koko_18, Koreni_13, Kratark_14, Kremtemulon_13, Kristoff_15, Kugel_15, KyMonks1A_16, Kye_14, Kykar_12, L5_16, LBerry_16, LHTSCC_14, Lambert1_15, Lamina13_14, Landor_16, LappelDuVide_13, Larenn_16, LarryKay_16, LastResort_17, Lemur_14, LeoAvram_14, Leogania_17, Lesedi_13, Lev2_12, Leviathan_17, Licorice_16, LilBib_15, LilTurb_17, Lilbunny_17, Lilith_16, LittleB_14, LittleCherry_12, LittleGuy_14, LochMonster_14, Lockley_14, Lokk_18, LoneWolf_16, Looper_18, Lopton_15, Lorenzo_14, Loser_18, Luchador_15, Lucivia_15, Lucyedi_16, Lunsford_15, MA5_14, MK4_14, MPlant7149_13, MaCh_15, Mabel_15, MadMarie_16, Magnar_14, Magnito_13, Makemake_14, Malec_16, Maminiaina_16, Manatee_15, Manu_17, Marcell_14, Marchy_12, Marge_15, Margo_15, Marius_17, Maroc7_13, Marsha_14, MaryBeth_14, MarysWell_11, Maverick_14, Maxo_14, Mazhar510_14, McFly_18, McGuire_15, Medusa_14, MeeZee_14, Melvin_14, MetalQZJ_14, Micasa_11, Michley_14, Microwolf_16, MiculUcigas_15, Midas2_12, Miko_18, Milcery_12, Millski_14, MinecraftSteve_18, Miramae_14, MissWhite_15, Molly_15, Monet_16, Moose_13, Morpher26_14, Morrow_14, MrGordo_14, Mryolo_13, MuchMore_18, Mulciber_15, Mule_14, Munch_15, Mundrea_14, Museum_16, MyraDee_12, Myxus_16, NEHalo_14, NaSiaTalie_15, Naira_15, Naji_18, Nebs_14, Nebulosus_17, Nedarya_16, Neeharika16_18, Nemo27_14, Nerujay_15, Newrala_18, Nhonho_14, NicoleTera_19, Niza_16, Noella_15, Noelle_14, Norbert_14, NorthStar_14, Norz_16, NotAPhaseMom_14, NothingSpecial_17, Nyxis_14, OKCentral2016_14, OKaNui_14,

Obama12_14, Odin_14, Ohfah_14, Ohno789_14, OlanP_16, Ollie_16, Oofda_18, Oogway_13, Orange_15, P28Green_16, PGHhamlin_18, PP_24, PSullivan_16, PacerPaul_14, PackMan_16, PainterBoy_16, Palestino_14, Panamaxus_15, Papez_16, Paphu_13, Paraselene_13, Pari_15, Parliament_13, PascalRango_13, PattyP_16, Pawn_17, Payneful_13, PeaceMeal1_13, Peaches_14, Pelly_15, Pembroke_16, Pepe_15, Perplexer_14, Perseus_15, PeterPeter_14, Petersenfast_14, Peterson_17, PetiteSangsue_14, Petp2012_16, Petruccio_14, PetterN_13, Ph8s_16, Phacado_14, Phaded_18, Phaeder_16, Phantastic_14, Pharaoh_15, Phelipe_14, PherrisBueller_15, Phighter1804_14, PhishRPhriends_15, Phlei_11, Phlorence_12, Phoebe_16, Phonnegut_16, Phontbonne_14, Phoxy_16, Phranny_17, PhrostyMug_14, PickleBack_12, PinkPlastic_13, Pinto_16, Pioneer_16, Pipcraft_14, Pippin_16, Piro94_16, Pistachio_15, Pita2_16, Pmask_18, Pocahontas_15, Polymorphads_14, Poompha_13, Popcicle_15, Power_15, Priamo_18, Priya_16, Pukovnik_17, Pumbaa_14, Puppy_15, PurpleHaze_16, QTRLifeCrisis_14, Qobbit_16, QueenB2_15, QueenBeesly_15, QuinnKiro_14, Rachaly_18, Rahalelujah_14, Rajelicia_14, ReMo_17, Reba_17, RedRock_18, Refuge_18, Relief_14, Remus_17, ResDef_15, Retro23_15, RhynO_15, Rhynn_14, RidgeCB_14, Rifter_18, Ringer_14, Roary_12, Rockstar_14, Rohr_15, Roksolana_18, Romney_14, Roosevelt_14, Rosalind_17, Rubeus_15, Rufus_15, Ruin_14, Rummer_16, Ruotula_13, Rutherferd_16, STLscum_15, Sabertooth_14, Sabinator_16, Sagefire_15, Saintus_12, Salz_15, Sandaddy_13, Sanya_13, SarFire_14, SaturnRing_14, Scamp_14, Scherzo_16, Scorpia_13, Scout_14, Scowl_15, Seabiscuit_16, Seanderson_15, SemperFi_17, Serenity_14, Shaka_14, Sham4_15, ShayRa_18, SheaKeira_15, Sheen_16, SheldonCooper_14, ShortQueendom_13, Shygu2_14, Sibs6_16, SkiPole_16, Skipitt_14, Slagathor_15, Smairt_15, Smeadley_12, Smeagan_17, Smeagol_15, SmellyB_18, SnapTap_15, Snape_15, Snazzy_12, Snickers_16, SoYo_16, Solon_14, SororFago_14, Sorpresa_13, Soshari_18, Soups_17, Sparxx_14, Spike509_16, SpikeBT_16, Spino_14, Spouty_15, Squee_15, Stagni_16, Stasia_15, Steamy_16, StepMih_16, StewieG_13, Stink_14, StrongArm_13, Strosahl_17, Sumter_13, Sunshine924_13, SuperAwesome_18, SuperCallie99_18, Superchunk_14, SweetiePie_15, SwirlSquare_17, Swirley_12, SwissCheese_14, Switzer_15, Switzerland_17, Swole_16, SydNat_12, TNguyen7_14, Taquarus_14, Target_16, TarsusIV_15, Tarynearal_11, Tasp14_15, Taurus_16, Teodoridan_12, Texage_14, Thanksgivukkah_14, Theia_11, TheloniousMonk_16, Thor_14, Tiger_12, Timothy_15, Timshel_15, TinaFeyge_14, TinyTimmy_14, Tinybot_13, TipsytheTRex_14, TiroTheta9_14, Toaka_14, Todacoro_15, Tomathan_18, ToneTone_17, Topanga_14, Topgun_14, Tote_16, Traft412_16, Treddle_16, Tripl3t_15, Trixie_18, Trooper_15, Trouble_14, TroyPia_14, Tubs_16, Tucker_18, Turbido_17, Turj99_13, Twister_14, TwoPeat_15, TygerBlood_14, U2_14, Ugenie5_13, Ulysses_13, UnionJack_12, Updawg_17, VA6_15, VC3_18, Vanisoa_14, Veracruz_14, Violet_13, VohminGhazi_18, Waits_17, WalterMcMickey_14, Wander_14, Watermelon_16, Watson_16, WeiHuaDA_21, Whabigail7_17, Wheeler_14, WideWale_17, Wiks_18, Wilbur_14, Wile_14, Wilkins_14, Wizard007_14, WunderPhul_18, Xena_14, XianYue_15, Yecy3_15, YoSam321_14, Yokurt_18, Zaka_18, Zeeculate_13, Zephyr_14, Zetzy_15, Zeuska_15, Zimmer_17, Zolita_11, Zulu_18,

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

- 20ES_15, Achebe_14, Aglet_16, Anubis_18, ArcherNM_17, Beauxregard13_16, BreSam8_16, Cullens_16, First_0015, Grum1_16, Hercules11_16, Isca_14, Jobu08_16, Kimona_11, LadyBird_15, Louie6_16, LugYA_18, Mainiac_16, Malinsilva_18, MarQuardt_16, Marie_16, Methuselah_16, Misomonster_18,

MoneyMay_16, Naca_12, Penny1_16, Pomar16_18, PotatoSplit_17, Rebeuca_15, Sabia_16, Severus_13, SoilDragon_16, StarStuff_18, Tiffany_16, Trike_12, Vix_16, Wooldri_18,

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

- Alatin_11, Alpacados_10, AngryOrchard_10, AppleCloud_9, Belenaria_11, BobbyDazzler_11, Bonanza_11, Bradshaw_11, Bryce_11, CosmicSans_11, Dinger_11, Erik_11, Espica_11, Gollum_11, Harlequin_11, Hiro_11, Jester_11, Krishelle_11, Lillie_11, Naiad_11, Nancinator_11, Natosaleda_11, NearlyHeadless_12, Partridge_11, PhailMary_10, Phillis_12, Phrankenstein_11, RER2_4, RGL3_4, Rasputin_11, RexFury_11, Rhodalysa_11, Shuman_11, StCroix_11, Stephig9_12, Swann_11, TWAMP_11, Takoda_11, UhSalsa_11, Yogi_11, Yoncess_11,

Summary by start number:

Start 24:

- Found in 198 of 836 (23.7%) of genes in pham
- Manual Annotations of this start: 18 of 787
- Called 10.1% of time when present
- Phage (with cluster) where this start called: 20ES_15 (A2), Achebe_14 (A4), ArcherNM_17 (A2), BreSam8_16 (A3), Cullens_16 (A3), First_0015 (A2), Grum1_16 (A3), Isca_14 (A3), Kimona_11 (A19), LadyBird_15 (A2), Mainiac_16 (A3), Malinsilva_18 (A3), MoneyMay_16 (A3), Naca_12 (A5), Pomar16_18 (A2), PotatoSplit_17 (A3), Sabia_16 (A3), SoilDragon_16 (A3), StarStuff_18 (A2), Wooldri_18 (A3),

Start 29:

- Found in 109 of 836 (13.0%) of genes in pham
- Manual Annotations of this start: 20 of 787
- Called 18.3% of time when present
- Phage (with cluster) where this start called: Aglet_16 (A3), Anubis_18 (A3), Beauxregard13_16 (A3), Hercules11_16 (A3), Jobu08_16 (A3), Louie6_16 (A3), LugYA_18 (A3), MarQuardt_16 (A3), Marie_16 (A3), Methuselah_16 (A3), Misomonster_18 (A3), NearlyHeadless_12 (A8), Penny1_16 (A3), Phillis_12 (A8), Rebeuca_15 (A10), Severus_13 (A10), Stephig9_12 (A8), Tiffany_16 (A3), Trike_12 (A10), Vix_16 (A3),

Start 30:

- Found in 795 of 836 (95.1%) of genes in pham
- Manual Annotations of this start: 713 of 787
- Called 95.3% of time when present
- Phage (with cluster) where this start called: 40AC_18 (A17), A6_12 (A1), ACFishhook_16 (A3), AFIS_14 (A1), AN3_15 (A2), AN9_18 (A2), ANI8_18 (A2), AbbyPaige_17 (A2), AbbysRanger_14 (A4), Abbysshoes_15 (A1), Abdiel_14 (A4), Abrogate_150 (A1), Acme_16 (A1), Acolyte_15 (A2), Adahisdi_15 (A1), Adzzy_16 (A2), Aeneas_16 (A1), Agaliana_14 (A1), Agape74_17 (A2), AgentM_12 (A5), AgronaGT15_16 (A3), Airmid_12 (A5), Ajay_14 (A1), Albee_14 (A4), Alberto7_15 (A4), Aliter_16 (A9), Alma_16 (A9), AIsfro_18 (A1), Altman_15 (A1), Alvin_15 (A1), Anaysia_17 (A15), Aneem_15 (A11), Anglerfish_15 (A1), AnnaL29_18 (A2), Annyong_14 (A4), Anon_15 (A15), Anselm_15 (A2), Anthony_14 (A20), Applejack_14 (A1), Aragog_12 (A5), Arcanine_15 (A1), Archetta_12 (A5), Arissanee_14 (A9), Arlo_13 (A1), Artemis2UCLA_18 (A6), Arturo_13 (A4), Ashballer_13 (A1), Astro_12

(A8), Atkinbua_15 (A1), AugsMagnumOpus_18 (A3), AvatarAhPeg_14 (A4), Avle17_14 (A4), B1_12 (A3), BABullseye_18 (A6), BK1_12 (A1), BPBiabs31_15 (A1), Baby16_14 (A4), BabyBack_17 (A2), BabyRay_14 (A3), Bachome_15 (A11), Backyardigan_14 (A4), BaconJack_16 (A1), Bactobuster_16 (A2), Badger_14 (A4), Baehexic_16 (A2), BangNhom_13 (A4), Barriga_14 (A1), Bartimeaus_14 (A4), Battleship_18 (A15), Beatrix_13 (A1), Beemo_16 (A9), BeesKnees_15 (A1), BellusTerra_14 (A4), Benedict_12 (A5), BengiVuitton_16 (A2), Benvolio_15 (A2), Bethlehem_14 (A1), Bexan_13 (A1), BiancaTri92_17 (A2), Big3_14 (A1), BigMau_16 (A1), BigPaolini_15 (A1), Bigfoot_13 (A1), BillKnuckles_15 (A1), Bircsak_14 (A1), Blackmoor_14 (A4), Blinn1_18 (A6), BluSpix_14 (A1), Blue7_18 (A6), BlueBird_15 (A3), Blue_14 (A1), Bluefalcon_11 (A5), Bob3_13 (A1), BobSwaget_18 (A2), BogosyJay_16 (A9), Bombshell_14 (A4), Bonamassa_12 (A5), Bones_14 (A1), Boohoo_17 (A15), Bowtie_15 (A11), Briton15_16 (A1), Broseidon_14 (A4), Bruiser_14 (A4), Bruns_13 (A1), BubbleTrouble_14 (A4), Bud_15 (A11), Bugatti_14 (A3), Buggy_17 (A2), Bumblebee11_14 (A4), Burger_13 (A4), Burton_15 (A1), Buttons_15 (A1), BuzzBuzz_15 (A3), Bxb1_13 (A1), Bxz2_16 (A3), C3_13 (A2), CRB1_15 (A2), CactusRose_13 (A1), Caelakin_14 (A4), Camperdownii_13 (A4), Candra_18 (A6), Caraxes_14 (A2), Carlyle_16 (A1), Catalina_16 (A9), Caviar_15 (A3), Centaur_17 (A2), CentreCat_14 (A4), Cerulean_14 (A4), Chadwick_13 (A5), ChampagnePapi_14 (A4), Chanagan_13 (A1), Changeling_18 (A2), Chaph_14 (A4), Chargerpower_15 (A), Charm_15 (A9), Chartreuse_18 (A6), Che12_16 (A2), ChipMunk_17 (A2), Chupacabra_14 (A10), Ciao_14 (A1), Cici_14 (A4), Cindaradix_13 (A4), Cintron_14 (A4), Citius_14 (A4), Clarenza_14 (A4), CloudWang3_18 (A6), Cocoaberry_14 (A4), Colbster_16 (A3), Colin_19 (A2), Commander_14 (A4), Conceptll_14 (A1), Connomayer_14 (A4), Conquerage_16 (A9), Conspiracy_12 (A5), Coog_12 (A5), Cookiedough_18 (A6), Corvo_14 (A1), Crispicious1_13 (A1), Crucio_15 (A2), Cuco_12 (A5), Cueylyss_14 (A1), D29_16 (A2), D32_18 (A2), DBQu4n_18 (A2), DD5_15 (A1), DaHudson_16 (A3), DaVinci_18 (A6), Daishi_15 (A3), Dalmatian_15 (A2), Danforth_11 (A8), Darrell_17 (A9), DARTHPhader_16 (A12), Datway_14 (A4), Deano_14 (A4), DekHockey33_17 (A15), Deloris_16 (A2), Dexes_15 (A1), Dhanush_14 (A4), Dieselweasel_16 (A3), Dignity_17 (A2), DirtyDunning_14 (A4), Discoknowium_12 (A5), Dixon_12 (A8), Doom_14 (A1), Dorothea_17 (A6), DrFeelGood_13 (A1), Drake55_17 (A2), Drake94_13 (A10), DreamCatcher_17 (A1), DreamTeam1_15 (A9), Dreamboat_15 (A1), DroogsArmy_15 (A7), Druantia_14 (A4), Dublin_11 (A5), DudeLittle_15 (A2), Dulcie_13 (A1), Duplo_18 (A2), Dussy_15 (A1), Dynamix_15 (A1), EZMoney23_19 (A2), EagleEye_17 (A16), Eagle_13 (A4), Eaglepride_15 (A10), Eapen_14 (A4), Ebony_15 (A11), Echild_15 (A2), Edison31_14 (A10), Edtherson_15 (A1), Eidsmoe_16 (A9), EITiger69_12 (A5), Elephantoon_16 (A9), EmyBug_16 (A9), EpicPhail_16 (A3), Epsocamisio_17 (A15), Equemioh13_17 (A2), EricB_18 (A6), Eris_14 (A4), Eros_14 (A4), Espresso_14 (A1), Et2Brutus_14 (A11), Euphoria_14 (A1), Eurydice_14 (A4), EvilGenius_17 (A2), Expelliarmus_11 (A8), ExplosioNervosa_16 (A9), Eyeball_14 (A1), Fajezeel_16 (A1), Fameo_15 (A2), Farber_16 (A3), Fascinus_13 (A1), Fayely_16 (A9), Fenn_15 (A1), Fernando_16 (A3), Fibonacci_15 (A11), FiringLine_15 (A2), Flare16_15 (A2), Flaverint_15 (A11), Florean_14 (A4), Flux_14 (A4), ForGetIt_12 (A5), Forsytheast_13 (A1), Francis47_14 (A1), Fred313_14 (A3), Froghopper_15 (A1), Funston_14 (A4), Fushigi_15 (A1), Gadost_14 (A4), GageAP_16 (A1), Gail_14 (A14), Gandalf20_15 (A1), Garak_19 (A6), GaugeLDP_17 (A2), Gemma_16 (A3), George_11 (A5), Georgie2_16 (A2), Ghoulyboy_12 (A5), Gilberta_15 (A11), GingkoMaracino_16 (A3), Giroux_14 (A3), Gladiator_18 (A6), Gompeii16_14 (A1), Goose_14 (A10), Graduation_16 (A1), GrecoEtereo_15 (A1), GreedyLawyer_18 (A6), Greg_16 (A1), Grif_16 (A3), Groundhog_11 (A8), Groupthink_17 (A3), Grub_16 (A3), Gruunaga_18 (A6),

GtownJaz_16 (A3), Gwendoluna_16 (A1), Gyzlar_16 (A1), HINdeR_14 (A7), HamSlice_13 (A4), Hami1_16 (A1), Hammer_18 (A6), HanShotFirst_14 (A1), Happiness_14 (A4), HarryHoudini_17 (A2), HarryOW_15 (A1), HashRod_17 (A3), HaveUMetTed_17 (A3), Heathen_14 (A3), Heffalump_17 (A2), HelDan_14 (A3), Heliosoles_16 (A3), Helmet_19 (A6), Herbertwm_13 (A2), Hermia_16 (A1), HermioneGrange_14 (A1), Hexamo_18 (A6), Holli_14 (A4), Homines_14 (A1), Hookmount_15 (A3), Hoot_18 (A6), Hope4ever_14 (A1), HortumSL17_16 (A9), Houdini22_14 (A4), HuhtaEnerson15_12 (A5), Hum25_5 (FQ), Hutc2_15 (A11), ICleared_14 (A4), ILeeKay_16 (A1), Iceman_14 (A4), Ichabod_15 (A1), Idleandcovert_14 (A3), IgnatiusPatJac_13 (A1), Indra_18 (A6), Insomnia_15 (A11), Iracema64_14 (A4), IronMan_17 (A2), Isiphiwo_18 (A6), Iwokeuplikedis_15 (A2), JC27_16 (A1), JF2_14 (A3), JF4_14 (A3), JHC117_16 (A3), JSwag_17 (A15), Jaan_18 (A2), Jabiru_12 (A5), Jabith_15 (A11), JackSparrow_15 (A1), Jasper_15 (A1), Jaykayelowell_14 (A4), Jeeves_14 (A14), Jeffabunny_18 (A6), JenCasNa_16 (A3), JeppNRM_17 (A3), Jerm2_15 (A1), Jerm_17 (A2), JetBlade_14 (A4), JewelBug_18 (A6), JoongJeon_14 (A4), Jordennis_18 (A6), Jorgensen_14 (A1), Joselito_15 (A11), JoshKayV_17 (A2), Journey13_13 (A2), Jovo_12 (A5), Jsquared_14 (A2), JuliaChild_16 (A1), KADY_17 (A3), KBG_15 (A1), KFPoly_14 (A4), KSSJEB_14 (A1), Kalb97_17 (A3), Kalnoky_17 (A3), Kalpine_18 (A2), Kamy_14 (A4), Kanely_15 (A1), Katalie136_14 (A4), KatherineG_17 (A15), Kazan_18 (A6), Kenmech_17 (A1), Kerberos_18 (A2), Keziacharles14_14 (A9), Killigrew_12 (A1), KingCyrus_17 (A2), Kingmustik0402_14 (A4), Kipper29_18 (A6), KittenMittens_13 (A10), Koduck_15 (A2), Koko_18 (A6), Koreni_13 (A4), Kratak_14 (A4), Kremtemulon_13 (A4), Kristoff_15 (A10), Kugel_15 (A1), KyMonks1A_16 (A1), Kyee_14 (A4), Kykar_12 (A1), L5_16 (A2), LBerry_16 (A3), LHTSCC_14 (A4), Lambert1_15 (A3), Lamina13_14 (A1), Landor_16 (A2), LappelDuVide_13 (A4), Larenn_16 (A2), LarryKay_16 (A3), LastResort_17 (A15), Lemur_14 (A4), LeoAvram_14 (A4), Leogania_17 (A2), Lesedi_13 (A1), Lev2_12 (A5), Leviathan_17 (A2), Licorice_16 (A1), LilBib_15 (A1), LilTurb_17 (A2), Lilbunny_17 (A6), Lilith_16 (A3), LittleB_14 (A4), LittleCherry_12 (A5), LittleGuy_14 (A4), LochMonster_14 (A4), Lockley_14 (A1), Loka_18 (A2), LoneWolf_16 (A9), Looper_18 (A15), Lopton_15 (A1), Lorenzo_14 (A4), Loser_18 (A2), Luchador_15 (A14), Lucivia_15 (A11), Lucyedi_16 (A16), Lunsford_15 (A4), MA5_14 (A3), MK4_14 (A3), MPlant7149_13 (A1), MaCh_15 (A11), Mabel_15 (A11), MadMarie_16 (A3), Magnar_14 (A1), Magnito_13 (A1), Makemake_14 (A1), Malec_16 (A2), Maminaiaina_16 (A9), Manatee_15 (A1), Manu_17 (A3), Marcell_14 (A1), Marchy_12 (A1), Marge_15 (A1), Margo_15 (A3), Marius_17 (A3), Maroc7_13 (A1), Marsha_14 (A1), MaryBeth_14 (A1), MarysWell_11 (A5), Maverick_14 (A4), Maxo_14 (A4), Mazhar510_14 (A4), McFly_18 (A6), McGuire_15 (A1), Medusa_14 (A4), MeeZee_14 (A4), Melvin_14 (A4), MetalQZJ_14 (A1), Micasa_11 (A5), Michley_14 (A1), Microwolf_16 (A3), MiculUcigas_15 (A2), Midas2_12 (A5), Miko_18 (A2), Milcery_12 (A5), Millski_14 (A4), MinecraftSteve_18 (A15), Miramae_14 (A4), MissWhite_15 (A2), Molly_15 (A1), Monet_16 (A1), Moose_13 (A1), Morpher26_14 (A4), Morrow_14 (A4), MrGordo_14 (A1), Mryolo_13 (A1), MuchMore_18 (A3), Mulciber_15 (A11), Mule_14 (A1), Munch_15 (A11), Mundrea_14 (A4), Museum_16 (A1), MyraDee_12 (A18), Myxus_16 (A9), NEHalo_14 (A1), NaSiaTalie_15 (A2), Naira_15 (A1), Naji_18 (A2), Nebs_14 (A4), Nebulosus_17 (A15), Nedarya_16 (A15), Neeharika16_18 (A6), Nemo27_14 (A4), Nerujay_15 (A1), Newrala_18 (A6), Nhonho_14 (A1), NicoleTera_19 (A2), Niza_16 (A1), Noella_15 (A3), Noelle_14 (A4), Norbert_14 (A3), NorthStar_14 (A4), Norz_16 (A1), NotAPhaseMom_14 (A4), NothingSpecial_17 (A2), Nyxis_14 (A4), OKCentral2016_14 (A10), OKaNui_14 (A4), Obama12_14 (A4), Odin_14 (A2), Ohfah_14 (A4), Ohno789_14 (A1), OlanP_16 (A3), Ollie_16 (A3), Oofda_18 (A15), Oogway_13 (A1), Orange_15 (A11), P28Green_16 (A3),

PGHhamlin_18 (A3), PP_24 (A7), PSullivan_16 (A1), PacerPaul_14 (A1), PackMan_16 (A9), PainterBoy_16 (A16), Palestino_14 (A4), Panamaxus_15 (A3), Papez_16 (A1), Paphu_13 (A1), Paraselene_13 (A1), Pari_15 (A1), Parliament_13 (A1), PascalRango_13 (A1), PattyP_16 (A1), Pawn_17 (A3), Payneful_13 (A1), PeaceMeal1_13 (A10), Peaches_14 (A4), Pelly_15 (A1), Pembroke_16 (A3), Pepe_15 (A1), Perplexer_14 (A4), Perseus_15 (A1), PeterPeter_14 (A4), Petersenfast_14 (A11), Peterson_17 (A1), PetiteSangsue_14 (A4), Petp2012_16 (A1), Petruchio_14 (A1), PetterN_13 (A5), Ph8s_16 (A2), Phacado_14 (A4), Phaded_18 (A2), Phaeder_16 (A9), Phantastic_14 (A3), Pharaoh_15 (A12), Felipe_14 (A4), PherrisBueller_15 (A1), Phighter1804_14 (A4), PhishRPhriends_15 (A3), Phlei_11 (A13), Phlorence_12 (A5), Phoebe_16 (A3), Phonnegut_16 (A9), Phontbonne_14 (A4), Phoxy_16 (A3), Phranny_17 (A3), PhrostyMug_14 (A1), PickleBack_12 (A5), PinkPlastic_13 (A1), Pinto_16 (A1), Pioneer_16 (A9), Pipcraft_14 (A4), Pippin_16 (A1), Piro94_16 (A2), Pistachio_15 (A3), Pita2_16 (A1), Pmask_18 (A6), Pocahontas_15 (A3), Polymorphads_14 (A4), Poompha_13 (A10), Popcicle_15 (A3), Power_15 (A2), Priamo_18 (A6), Priya_16 (A9), Pukovnik_17 (A2), Pumbaa_14 (A4), Puppy_15 (A3), PurpleHaze_16 (A3), QTRlifeCrisis_14 (A1), Qobbit_16 (A9), QueenB2_15 (A2), QueenBeesly_15 (A2), QuinnKiro_14 (A3), Rachaly_18 (A2), Rahalelujah_14 (A9), Rajelicia_14 (A1), ReMo_17 (A15), Reba_17 (A3), RedRock_18 (A2), Refuge_18 (A12), Relief_14 (A4), Remus_17 (A15), ResDef_15 (A3), Retro23_15 (A2), RhynO_15 (A10), Rhynn_14 (A1), RidgeCB_14 (A1), Rifter_18 (A6), Ringer_14 (A1), Roary_12 (A8), Rockstar_14 (A3), Rohr_15 (A1), Roksolana_18 (A6), Romney_14 (A4), Roosevelt_14 (A4), Rosalind_17 (A15), Rubeus_15 (A1), Rufus_15 (A1), Ruin_14 (A4), Rummer_16 (A3), Ruotula_13 (A1), Rutherford_16 (A1), STLscum_15 (A1), Sabertooth_14 (A4), Sabinator_16 (A3), Sagefire_15 (A1), Saintus_12 (A8), Salz_15 (A11), Sandaddy_13 (A1), Sanya_13 (A1), SarFire_14 (A1), SaturnRing_14 (A3), Scamp_14 (A4), Scherzo_16 (A9), Scorpia_13 (A5), Scout_14 (A3), Scowl_15 (A1), Seabiscuit_16 (A1), Seanderson_15 (A1), SemperFi_17 (A2), Serenity_14 (A2), Shaka_14 (A4), Sham4_15 (A11), ShayRa_18 (A15), SheaKeira_15 (A9), Sheen_16 (A7), SheldonCooper_14 (A4), ShortQueendom_13 (A1), Shygu2_14 (A4), Sibs6_16 (A1), SkiPole_16 (A1), Skipitt_14 (A4), Slagathor_15 (A1), Smairt_15 (A1), Smeadley_12 (A8), Smeagan_17 (A2), Smeagol_15 (A1), SmellyB_18 (A6), SnapTap_15 (A2), Snape_15 (A11), Snazzy_12 (A1), Snickers_16 (A3), SoYo_16 (A3), Solon_14 (A1), SororFago_14 (A14), Sorpresa_13 (A1), Soshari_18 (A3), Soups_17 (A15), Sparxx_14 (A4), Spike509_16 (A3), SpikeBT_16 (A1), Spino_14 (A4), Spouty_15 (A9), Squee_15 (A1), Stagni_16 (A3), Stasia_15 (A4), Steamy_16 (A12), StepMih_16 (A3), StewieG_13 (A1), Stink_14 (A4), StrongArm_13 (A1), Strosahl_17 (A15), Sumter_13 (A1), Sunshine924_13 (A1), SuperAwesome_18 (A6), SuperCallie99_18 (A6), Superchunk_14 (A2), SweetiePie_15 (A2), SwirlSquare_17 (A2), Swirley_12 (A5), SwissCheese_14 (A1), Switzer_15 (A1), Switzerland_17 (A15), Swole_16 (A1), SydNat_12 (A5), TNguyen7_14 (A3), Taquarus_14 (A4), Target_16 (A1), TarsusIV_15 (A2), Tarynearal_11 (A5), Tasp14_15 (A1), Taurus_16 (A3), Teodoridan_12 (A1), Texage_14 (A3), Thanksgivukkah_14 (A4), Theia_11 (A5), TheloniousMonk_16 (A1), Thor_14 (A1), Tiger_12 (A5), Timothy_15 (A11), Timshel_15 (A7), TinaFeyge_14 (A4), TinyTimmy_14 (A11), Tinybot_13 (A4), TipsytheTRex_14 (A2), TiroTheta9_14 (A4), Toaka_14 (A9), Todacoro_15 (A3), Tomathan_18 (A2), ToneTone_17 (A6), Topanga_14 (A10), Topgun_14 (A1), Tote_16 (A1), Traft412_16 (A1), Treddle_16 (A1), Tripl3t_15 (A1), Trixie_18 (A2), Trooper_15 (A2), Trouble_14 (A1), TroyPia_14 (A4), Tubs_16 (A9), Tucker_18 (A6), Turbido_17 (A2), Turj99_13 (A1), Twister_14 (A10), TwoPeat_15 (A1), TygerBlood_14 (A4), U2_14 (A1), Ugenie5_13 (A9), Ulysses_13 (A4), UnionJack_12 (A5), Updawg_17 (A2), VA6_15 (A2), VC3_18 (A2), Vanisoa_14 (A9), Veracruz_14

(A3), Violet_13 (A1), VohminGhazi_18 (A6), Waits_17 (A15), WalterMcMickey_14 (A10), Wander_14 (A4), Watermelon_16 (A1), Watson_16 (A3), WeiHuaDA_21 (A2), Whabigail7_17 (A2), Wheeler_14 (A1), WideWale_17 (A2), Wiks_18 (A6), Wilbur_14 (A4), Wile_14 (A4), Wilkins_14 (A1), Wizard007_14 (A4), WunderPhul_18 (A6), Xena_14 (A4), XianYue_15 (A2), Yecey3_15 (A9), YoSam321_14 (A4), Yokurt_18 (A6), Zaka_18 (A6), Zeeculate_13 (A1), Zephyr_14 (A1), Zetzy_15 (A3), Zeuska_15 (A1), Zimmer_17 (A12), Zolita_11 (A5), Zulu_18 (A6),

Start 32:

- Found in 38 of 836 (4.5%) of genes in pham
- Manual Annotations of this start: 36 of 787
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_11 (CA), Alpacados_10 (CA), AngryOrchard_10 (CA), AppleCloud_9 (CA), Belenaria_11 (CA), BobbyDazzler_11 (CA), Bonanza_11 (CA), Bradshaw_11 (CA), Bryce_11 (CA), CosmicSans_11 (CA), Dinger_11 (CA), Erik_11 (CA), Espica_11 (CA), Gollum_11 (CA), Harlequin_11 (CA), Hiro_11 (CA), Jester_11 (CA), Krishelle_11 (CA), Lillie_11 (CA), Naiad_11 (CA), Nancinator_11 (CA), Natosaleda_11 (CA), Partridge_11 (CA), PhailMary_10 (CA), Phrankenstein_11 (CA), RER2_4 (CA), RGL3_4 (CA), Rasputin_11 (CA), RexFury_11 (CA), Rhodalysa_11 (CA), Shuman_11 (CA), StCroix_11 (CA), Swann_11 (CA), TWAMP_11 (CA), Takoda_11 (CA), UhSalsa_11 (CA), Yogi_11 (CA), Yoncess_11 (CA),

Summary by clusters:

There are 23 clusters represented in this pham: FQ, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, A, CA, A20,

Info for manual annotations of cluster A:

- Start number 30 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 30 was manually annotated 201 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 29 was manually annotated 3 times for cluster A10.
- Start number 30 was manually annotated 14 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 30 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 30 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 30 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 30 was manually annotated 21 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 30 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 30 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 24 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 24 was manually annotated 4 times for cluster A2.
- Start number 30 was manually annotated 97 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 30 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 24 was manually annotated 11 times for cluster A3.
- Start number 29 was manually annotated 14 times for cluster A3.
- Start number 30 was manually annotated 86 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 24 was manually annotated 1 time for cluster A4.
- Start number 30 was manually annotated 134 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 24 was manually annotated 1 time for cluster A5.
- Start number 30 was manually annotated 36 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 30 was manually annotated 40 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 30 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 29 was manually annotated 3 times for cluster A8.
- Start number 30 was manually annotated 8 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 30 was manually annotated 33 times for cluster A9.

Info for manual annotations of cluster CA:

- Start number 32 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: 20ES_15 Start: 11599, Stop: 12150, Start Num: 24

Candidate Starts for 20ES_15:

(Start: 24 @11599 has 18 MA's), (26, 11614), (Start: 30 @11635 has 713 MA's), (38, 11713), (64, 11926), (68, 11953), (85, 12091),

Gene: 40AC_18 Start: 13636, Stop: 14160, Start Num: 30

Candidate Starts for 40AC_18:

(Start: 24 @13600 has 18 MA's), (Start: 29 @13615 has 20 MA's), (Start: 30 @13636 has 713 MA's), (35, 13702), (42, 13774), (56, 13879), (64, 13933),

Gene: A6_12 Start: 10644, Stop: 11156, Start Num: 30

Candidate Starts for A6_12:

(Start: 30 @10644 has 713 MA's), (45, 10809), (60, 10917), (81, 11055), (87, 11115), (92, 11133),

Gene: ACFishhook_16 Start: 11156, Stop: 11659, Start Num: 30

Candidate Starts for ACFishhook_16:

(Start: 24 @11120 has 18 MA's), (Start: 29 @11135 has 20 MA's), (Start: 30 @11156 has 713 MA's), (48, 11333), (66, 11465), (68, 11477),

Gene: AFIS_14 Start: 10982, Stop: 11494, Start Num: 30

Candidate Starts for AFIS_14:

(13, 10796), (Start: 30 @10982 has 713 MA's), (60, 11255), (81, 11393), (87, 11453), (92, 11471),

Gene: AN3_15 Start: 11619, Stop: 12140, Start Num: 30

Candidate Starts for AN3_15:

(Start: 24 @11583 has 18 MA's), (28, 11598), (Start: 30 @11619 has 713 MA's), (64, 11916), (68, 11943), (85, 12081),

Gene: AN9_18 Start: 11582, Stop: 12103, Start Num: 30

Candidate Starts for AN9_18:

(20, 11534), (Start: 30 @11582 has 713 MA's), (42, 11726), (43, 11741), (56, 11831), (64, 11885), (66, 11900), (85, 12044), (91, 12077),

Gene: ANI8_18 Start: 11582, Stop: 12103, Start Num: 30

Candidate Starts for ANI8_18:

(20, 11534), (Start: 30 @11582 has 713 MA's), (42, 11726), (56, 11831), (64, 11885), (66, 11900), (85, 12044), (91, 12077),

Gene: AbbyPaige_17 Start: 12068, Stop: 12595, Start Num: 30

Candidate Starts for AbbyPaige_17:

(Start: 30 @12068 has 713 MA's), (64, 12368), (66, 12383), (85, 12536), (91, 12569),

Gene: AbbysRanger_14 Start: 10955, Stop: 11479, Start Num: 30

Candidate Starts for AbbysRanger_14:

(Start: 24 @10922 has 18 MA's), (Start: 30 @10955 has 713 MA's), (36, 11039), (54, 11189), (79, 11366), (85, 11423),

Gene: Abbysshoes_15 Start: 11070, Stop: 11582, Start Num: 30

Candidate Starts for Abbysshoes_15:

(Start: 30 @11070 has 713 MA's), (45, 11235), (60, 11343), (81, 11481), (87, 11541), (92, 11559),

Gene: Abdiel_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Abdiel_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Abrogate_150 Start: 11727, Stop: 12239, Start Num: 30

Candidate Starts for Abrogate_150:

(Start: 30 @11727 has 713 MA's), (45, 11892), (60, 12000), (81, 12138), (87, 12198), (92, 12216),

Gene: Achebe_14 Start: 10910, Stop: 11458, Start Num: 24

Candidate Starts for Achebe_14:

(4, 10652), (7, 10703), (10, 10739), (11, 10742), (Start: 24 @10910 has 18 MA's), (Start: 30 @10943 has 713 MA's), (79, 11345),

Gene: Acme_16 Start: 11418, Stop: 11930, Start Num: 30

Candidate Starts for Acme_16:

(12, 11217), (13, 11232), (Start: 30 @11418 has 713 MA's), (45, 11583), (60, 11691), (81, 11829), (87, 11889), (92, 11907),

Gene: Acolyte_15 Start: 11767, Stop: 12288, Start Num: 30

Candidate Starts for Acolyte_15:

(Start: 24 @11731 has 18 MA's), (28, 11746), (Start: 30 @11767 has 713 MA's), (33, 11818), (64, 12067), (68, 12094), (70, 12103), (91, 12262),

Gene: Adahisdi_15 Start: 11309, Stop: 11821, Start Num: 30

Candidate Starts for Adahisdi_15:

(Start: 30 @11309 has 713 MA's), (60, 11582), (81, 11720), (87, 11780), (92, 11798),

Gene: Adzzy_16 Start: 10383, Stop: 10907, Start Num: 30

Candidate Starts for Adzzy_16:

(Start: 30 @10383 has 713 MA's), (33, 10434), (35, 10452), (42, 10524), (46, 10554), (66, 10698), (68, 10710), (70, 10719), (85, 10845), (91, 10878), (93, 10887),

Gene: Aeneas_16 Start: 11404, Stop: 11916, Start Num: 30

Candidate Starts for Aeneas_16:

(Start: 30 @11404 has 713 MA's), (60, 11677), (81, 11815), (87, 11875), (92, 11893),

Gene: Agaliana_14 Start: 11119, Stop: 11631, Start Num: 30

Candidate Starts for Agaliana_14:

(12, 10918), (13, 10933), (Start: 30 @11119 has 713 MA's), (60, 11392), (81, 11530), (87, 11590), (92, 11608),

Gene: Agape74_17 Start: 12068, Stop: 12595, Start Num: 30

Candidate Starts for Agape74_17:

(Start: 30 @12068 has 713 MA's), (64, 12368), (66, 12383), (85, 12536), (91, 12569),

Gene: AgentM_12 Start: 10341, Stop: 10850, Start Num: 30

Candidate Starts for AgentM_12:

(Start: 30 @10341 has 713 MA's), (40, 10431), (56, 10584), (62, 10626), (66, 10653), (70, 10674), (76, 10722),

Gene: Aglet_16 Start: 10983, Stop: 11507, Start Num: 29

Candidate Starts for Aglet_16:

(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's), (48, 11181), (66, 11313), (68, 11325),

Gene: AgronaGT15_16 Start: 10911, Stop: 11414, Start Num: 30

Candidate Starts for AgronaGT15_16:

(Start: 24 @10875 has 18 MA's), (Start: 29 @10890 has 20 MA's), (Start: 30 @10911 has 713 MA's), (48, 11088), (66, 11220), (68, 11232),

Gene: Airmid_12 Start: 10089, Stop: 10601, Start Num: 30

Candidate Starts for Airmid_12:

(Start: 24 @10056 has 18 MA's), (Start: 30 @10089 has 713 MA's), (40, 10182), (62, 10377), (66, 10404), (76, 10473), (82, 10506), (90, 10572),

Gene: Ajay_14 Start: 11115, Stop: 11627, Start Num: 30

Candidate Starts for Ajay_14:

(8, 10869), (12, 10914), (13, 10929), (Start: 30 @11115 has 713 MA's), (60, 11388), (81, 11526), (87, 11586), (92, 11604),

Gene: Alatin_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Alatin_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (77, 7572), (93, 7686),

Gene: Albee_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Albee_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Alberto7_15 Start: 11244, Stop: 11756, Start Num: 30

Candidate Starts for Alberto7_15:

(Start: 30 @11244 has 713 MA's), (41, 11355), (79, 11643),

Gene: Aliter_16 Start: 12195, Stop: 12728, Start Num: 30

Candidate Starts for Aliter_16:

(Start: 30 @12195 has 713 MA's), (33, 12243), (44, 12357), (64, 12498), (66, 12513), (68, 12525), (91, 12693), (92, 12696),

Gene: Alma_16 Start: 12274, Stop: 12807, Start Num: 30

Candidate Starts for Alma_16:

(Start: 30 @12274 has 713 MA's), (33, 12322), (44, 12436), (64, 12577), (66, 12592), (68, 12604), (91, 12772), (92, 12775),

Gene: Alpacados_10 Start: 7165, Stop: 7650, Start Num: 32

Candidate Starts for Alpacados_10:

(18, 7003), (Start: 32 @7165 has 36 MA's), (58, 7396), (69, 7462), (77, 7519),

Gene: Alsfro_18 Start: 11858, Stop: 12370, Start Num: 30

Candidate Starts for Alsfro_18:

(Start: 30 @11858 has 713 MA's), (60, 12131), (81, 12269), (87, 12329), (92, 12347),

Gene: Altman_15 Start: 11653, Stop: 12165, Start Num: 30

Candidate Starts for Altman_15:

(12, 11452), (13, 11467), (Start: 30 @11653 has 713 MA's), (45, 11818), (60, 11926), (81, 12064), (87, 12124), (92, 12142),

Gene: Alvin_15 Start: 11326, Stop: 11838, Start Num: 30

Candidate Starts for Alvin_15:

(12, 11125), (13, 11140), (Start: 30 @11326 has 713 MA's), (45, 11491), (60, 11599), (81, 11737), (87, 11797), (92, 11815),

Gene: Anaysia_17 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for Anaysia_17:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Aneem_15 Start: 12152, Stop: 12673, Start Num: 30

Candidate Starts for Aneem_15:

(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Anglerfish_15 Start: 12039, Stop: 12551, Start Num: 30

Candidate Starts for Anglerfish_15:

(Start: 30 @12039 has 713 MA's), (45, 12204), (60, 12312), (81, 12450), (87, 12510), (92, 12528),

Gene: AngryOrchard_10 Start: 7148, Stop: 7633, Start Num: 32

Candidate Starts for AngryOrchard_10:

(18, 6986), (Start: 32 @7148 has 36 MA's), (58, 7379), (69, 7445), (77, 7502),

Gene: AnnaL29_18 Start: 13469, Stop: 13981, Start Num: 30

Candidate Starts for AnnaL29_18:

(Start: 30 @13469 has 713 MA's), (70, 13796), (85, 13922),

Gene: Annyong_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for Annyong_14:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Anon_15 Start: 11108, Stop: 11614, Start Num: 30

Candidate Starts for Anon_15:

(Start: 30 @11108 has 713 MA's), (50, 11297), (68, 11423), (96, 11606),

Gene: Anselm_15 Start: 11730, Stop: 12242, Start Num: 30

Candidate Starts for Anselm_15:

(Start: 24 @11694 has 18 MA's), (28, 11709), (Start: 30 @11730 has 713 MA's), (64, 12018), (68, 12045), (85, 12183), (91, 12216),

Gene: Anthony_14 Start: 9846, Stop: 10355, Start Num: 30

Candidate Starts for Anthony_14:

(Start: 30 @9846 has 713 MA's), (42, 9981), (46, 10011), (91, 10332),

Gene: Anubis_18 Start: 10868, Stop: 11392, Start Num: 29

Candidate Starts for Anubis_18:

(Start: 24 @10853 has 18 MA's), (Start: 29 @10868 has 20 MA's), (Start: 30 @10889 has 713 MA's), (48, 11066), (66, 11198), (68, 11210),

Gene: AppleCloud_9 Start: 6912, Stop: 7397, Start Num: 32

Candidate Starts for AppleCloud_9:

(18, 6750), (Start: 32 @6912 has 36 MA's), (58, 7143), (69, 7209), (77, 7266),

Gene: Applejack_14 Start: 11053, Stop: 11565, Start Num: 30

Candidate Starts for Applejack_14:

(13, 10867), (Start: 30 @11053 has 713 MA's), (60, 11326), (81, 11464), (87, 11524), (92, 11542),

Gene: Aragog_12 Start: 10371, Stop: 10880, Start Num: 30

Candidate Starts for Aragog_12:

(Start: 30 @10371 has 713 MA's), (40, 10461), (56, 10614), (62, 10656), (66, 10683), (76, 10752),

Gene: Arcanine_15 Start: 10989, Stop: 11501, Start Num: 30

Candidate Starts for Arcanine_15:

(Start: 30 @10989 has 713 MA's), (45, 11154), (60, 11262), (81, 11400), (87, 11460), (92, 11478),

Gene: ArcherNM_17 Start: 13370, Stop: 13930, Start Num: 24

Candidate Starts for ArcherNM_17:

(Start: 24 @13370 has 18 MA's), (27, 13385), (Start: 30 @13406 has 713 MA's), (35, 13475), (70, 13742), (85, 13871),

Gene: Archetta_12 Start: 10081, Stop: 10593, Start Num: 30

Candidate Starts for Archetta_12:

(17, 9982), (Start: 24 @10048 has 18 MA's), (Start: 30 @10081 has 713 MA's), (40, 10174), (62, 10369), (66, 10396), (76, 10465), (82, 10498), (90, 10564),

Gene: Arissanae_14 Start: 10395, Stop: 10925, Start Num: 30

Candidate Starts for Arissanae_14:

(Start: 30 @10395 has 713 MA's), (34, 10443), (40, 10500), (64, 10695), (68, 10722), (91, 10890), (92, 10893),

Gene: Arlo_13 Start: 10678, Stop: 11190, Start Num: 30

Candidate Starts for Arlo_13:

(Start: 30 @10678 has 713 MA's), (45, 10843), (60, 10951), (81, 11089), (87, 11149), (92, 11167),

Gene: Artemis2UCLA_18 Start: 11564, Stop: 12085, Start Num: 30

Candidate Starts for Artemis2UCLA_18:

(16, 11468), (Start: 30 @11564 has 713 MA's), (33, 11612), (42, 11699), (55, 11792), (56, 11804), (74, 11930),

Gene: Arturo_13 Start: 11053, Stop: 11565, Start Num: 30

Candidate Starts for Arturo_13:

(Start: 30 @11053 has 713 MA's), (41, 11164), (79, 11452),

Gene: Ashballer_13 Start: 11057, Stop: 11569, Start Num: 30

Candidate Starts for Ashballer_13:

(Start: 30 @11057 has 713 MA's), (60, 11330), (81, 11468), (87, 11528), (92, 11546),

Gene: Astro_12 Start: 9843, Stop: 10349, Start Num: 30

Candidate Starts for Astro_12:

(Start: 30 @9843 has 713 MA's), (51, 10035), (57, 10092), (61, 10116), (66, 10149), (70, 10170), (84, 10275),

Gene: Atkinbua_15 Start: 11032, Stop: 11544, Start Num: 30

Candidate Starts for Atkinbua_15:

(Start: 30 @11032 has 713 MA's), (60, 11305), (81, 11443), (87, 11503), (92, 11521),

Gene: AugsMagnumOpus_18 Start: 10995, Stop: 11498, Start Num: 30

Candidate Starts for AugsMagnumOpus_18:

(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: AvatarAhPeg_14 Start: 10907, Stop: 11419, Start Num: 30

Candidate Starts for AvatarAhPeg_14:

(Start: 24 @10874 has 18 MA's), (Start: 30 @10907 has 713 MA's), (41, 11018), (70, 11240), (79, 11306),

Gene: Avle17_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Avle17_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: B1_12 Start: 10184, Stop: 10708, Start Num: 30
Candidate Starts for B1_12:
(Start: 24 @10148 has 18 MA's), (Start: 30 @10184 has 713 MA's), (47, 10361), (62, 10469), (68, 10508),

Gene: BABullseye_18 Start: 11667, Stop: 12197, Start Num: 30
Candidate Starts for BABullseye_18:
(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: BK1_12 Start: 10644, Stop: 11156, Start Num: 30
Candidate Starts for BK1_12:
(Start: 30 @10644 has 713 MA's), (45, 10809), (60, 10917), (81, 11055), (87, 11115), (92, 11133),

Gene: BPBiebs31_15 Start: 11317, Stop: 11829, Start Num: 30
Candidate Starts for BPBiebs31_15:
(12, 11116), (13, 11131), (Start: 30 @11317 has 713 MA's), (45, 11482), (60, 11590), (81, 11728), (87, 11788), (92, 11806),

Gene: Baby16_14 Start: 10948, Stop: 11460, Start Num: 30
Candidate Starts for Baby16_14:
(Start: 30 @10948 has 713 MA's), (41, 11059), (79, 11347),

Gene: BabyBack_17 Start: 13261, Stop: 13785, Start Num: 30
Candidate Starts for BabyBack_17:
(Start: 30 @13261 has 713 MA's), (35, 13327), (42, 13399), (64, 13558), (74, 13630),

Gene: BabyRay_14 Start: 10770, Stop: 11294, Start Num: 30
Candidate Starts for BabyRay_14:
(Start: 30 @10770 has 713 MA's), (47, 10944), (62, 11052), (68, 11091), (95, 11265),

Gene: Bachome_15 Start: 12149, Stop: 12670, Start Num: 30
Candidate Starts for Bachome_15:
(26, 12128), (Start: 30 @12149 has 713 MA's), (31, 12191), (33, 12200), (41, 12263), (64, 12449),

Gene: Backyardigan_14 Start: 10955, Stop: 11470, Start Num: 30
Candidate Starts for Backyardigan_14:
(4, 10664), (7, 10715), (10, 10751), (11, 10754), (Start: 24 @10922 has 18 MA's), (Start: 30 @10955 has 713 MA's), (79, 11357),

Gene: BaconJack_16 Start: 11096, Stop: 11608, Start Num: 30
Candidate Starts for BaconJack_16:
(Start: 30 @11096 has 713 MA's), (45, 11261), (60, 11369), (81, 11507), (87, 11567), (92, 11585),

Gene: Bactobuster_16 Start: 13356, Stop: 13865, Start Num: 30
Candidate Starts for Bactobuster_16:
(Start: 30 @13356 has 713 MA's), (47, 13524), (64, 13644), (68, 13671), (85, 13809),

Gene: Badger_14 Start: 10944, Stop: 11459, Start Num: 30

Candidate Starts for Badger_14:
(4, 10653), (7, 10704), (10, 10740), (11, 10743), (Start: 24 @10911 has 18 MA's), (Start: 30 @10944 has 713 MA's), (79, 11346),

Gene: Baehexic_16 Start: 12120, Stop: 12644, Start Num: 30
Candidate Starts for Baehexic_16:
(Start: 24 @12084 has 18 MA's), (26, 12099), (Start: 30 @12120 has 713 MA's), (57, 12381), (85, 12585), (91, 12618),

Gene: BangNhom_13 Start: 10917, Stop: 11429, Start Num: 30
Candidate Starts for BangNhom_13:
(Start: 24 @10884 has 18 MA's), (Start: 30 @10917 has 713 MA's), (41, 11028), (70, 11250), (79, 11316),

Gene: Barriga_14 Start: 10920, Stop: 11432, Start Num: 30
Candidate Starts for Barriga_14:
(Start: 30 @10920 has 713 MA's), (45, 11085), (60, 11193), (81, 11331), (87, 11391), (92, 11409),

Gene: Bartimeaus_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Bartimeaus_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Battleship_18 Start: 10868, Stop: 11377, Start Num: 30
Candidate Starts for Battleship_18:
(Start: 30 @10868 has 713 MA's),

Gene: Beatrix_13 Start: 11760, Stop: 12272, Start Num: 30
Candidate Starts for Beatrix_13:
(Start: 30 @11760 has 713 MA's), (60, 12033), (81, 12171), (87, 12231), (92, 12249),

Gene: Beauxregard13_16 Start: 10982, Stop: 11506, Start Num: 29
Candidate Starts for Beauxregard13_16:
(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: Beemo_16 Start: 12301, Stop: 12834, Start Num: 30
Candidate Starts for Beemo_16:
(Start: 30 @12301 has 713 MA's), (33, 12349), (44, 12463), (64, 12604), (66, 12619), (68, 12631), (91, 12799), (92, 12802),

Gene: BeesKnees_15 Start: 11119, Stop: 11631, Start Num: 30
Candidate Starts for BeesKnees_15:
(Start: 30 @11119 has 713 MA's), (60, 11392), (81, 11530), (87, 11590), (92, 11608),

Gene: Belenaria_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for Belenaria_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: BellusTerra_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for BellusTerra_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Benedict_12 Start: 10091, Stop: 10603, Start Num: 30

Candidate Starts for Benedict_12:

(Start: 24 @10058 has 18 MA's), (Start: 30 @10091 has 713 MA's), (40, 10184), (62, 10379), (66, 10406), (76, 10475), (82, 10508), (90, 10574),

Gene: BengiVuitton_16 Start: 12045, Stop: 12557, Start Num: 30

Candidate Starts for BengiVuitton_16:

(Start: 24 @12009 has 18 MA's), (26, 12024), (Start: 30 @12045 has 713 MA's), (38, 12123), (64, 12336), (77, 12426), (85, 12498),

Gene: Benvolio_15 Start: 11720, Stop: 12232, Start Num: 30

Candidate Starts for Benvolio_15:

(Start: 24 @11684 has 18 MA's), (28, 11699), (Start: 30 @11720 has 713 MA's), (64, 12008), (68, 12035), (85, 12173),

Gene: Bethlehem_14 Start: 12347, Stop: 12859, Start Num: 30

Candidate Starts for Bethlehem_14:

(Start: 30 @12347 has 713 MA's), (45, 12512), (60, 12620), (81, 12758), (87, 12818), (92, 12836),

Gene: Bexan_13 Start: 11761, Stop: 12273, Start Num: 30

Candidate Starts for Bexan_13:

(Start: 30 @11761 has 713 MA's), (60, 12034), (81, 12172), (87, 12232), (92, 12250),

Gene: BiancaTri92_17 Start: 13398, Stop: 13916, Start Num: 30

Candidate Starts for BiancaTri92_17:

(Start: 24 @13362 has 18 MA's), (28, 13377), (Start: 30 @13398 has 713 MA's), (64, 13695), (68, 13722), (85, 13857),

Gene: Big3_14 Start: 11704, Stop: 12216, Start Num: 30

Candidate Starts for Big3_14:

(Start: 30 @11704 has 713 MA's), (60, 11977), (81, 12115), (87, 12175), (92, 12193),

Gene: BigMau_16 Start: 11285, Stop: 11797, Start Num: 30

Candidate Starts for BigMau_16:

(12, 11084), (13, 11099), (Start: 30 @11285 has 713 MA's), (45, 11450), (60, 11558), (81, 11696), (87, 11756), (92, 11774),

Gene: BigPaolini_15 Start: 11711, Stop: 12223, Start Num: 30

Candidate Starts for BigPaolini_15:

(Start: 30 @11711 has 713 MA's), (60, 11984), (81, 12122), (87, 12182), (92, 12200),

Gene: Bigfoot_13 Start: 10809, Stop: 11321, Start Num: 30

Candidate Starts for Bigfoot_13:

(13, 10623), (Start: 30 @10809 has 713 MA's), (60, 11082), (81, 11220), (87, 11280), (92, 11298),

Gene: BillKnuckles_15 Start: 11758, Stop: 12255, Start Num: 30

Candidate Starts for BillKnuckles_15:

(Start: 30 @11758 has 713 MA's), (55, 11974), (56, 11986), (70, 12076), (83, 12163), (86, 12205), (89, 12223),

Gene: Bircsak_14 Start: 11270, Stop: 11782, Start Num: 30

Candidate Starts for Bircsak_14:

(12, 11069), (13, 11084), (Start: 30 @11270 has 713 MA's), (45, 11435), (60, 11543), (81, 11681), (87, 11741), (92, 11759),

Gene: Blackmoor_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Blackmoor_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Blinn1_18 Start: 11710, Stop: 12240, Start Num: 30

Candidate Starts for Blinn1_18:

(Start: 30 @11710 has 713 MA's), (42, 11854), (55, 11947), (56, 11959), (74, 12085),

Gene: BluSpix_14 Start: 11069, Stop: 11581, Start Num: 30

Candidate Starts for BluSpix_14:

(12, 10868), (13, 10883), (Start: 30 @11069 has 713 MA's), (60, 11342), (81, 11480), (87, 11540), (92, 11558),

Gene: Blue_14 Start: 11176, Stop: 11688, Start Num: 30

Candidate Starts for Blue_14:

(12, 10975), (13, 10990), (Start: 30 @11176 has 713 MA's), (60, 11449), (81, 11587), (87, 11647), (92, 11665),

Gene: Blue7_18 Start: 11655, Stop: 12176, Start Num: 30

Candidate Starts for Blue7_18:

(16, 11559), (Start: 30 @11655 has 713 MA's), (33, 11703), (42, 11790), (56, 11895), (74, 12021),

Gene: BlueBird_15 Start: 10546, Stop: 11067, Start Num: 30

Candidate Starts for BlueBird_15:

(Start: 30 @10546 has 713 MA's), (47, 10720), (62, 10828), (68, 10867), (95, 11038),

Gene: Bluefalcon_11 Start: 10341, Stop: 10850, Start Num: 30

Candidate Starts for Bluefalcon_11:

(Start: 30 @10341 has 713 MA's), (40, 10431), (56, 10584), (62, 10626), (66, 10653), (76, 10722),

Gene: Bob3_13 Start: 10625, Stop: 11137, Start Num: 30

Candidate Starts for Bob3_13:

(Start: 30 @10625 has 713 MA's), (45, 10790), (60, 10898), (81, 11036), (87, 11096), (92, 11114),

Gene: BobSwaget_18 Start: 13290, Stop: 13799, Start Num: 30

Candidate Starts for BobSwaget_18:

(Start: 30 @13290 has 713 MA's), (38, 13371), (42, 13425), (64, 13584), (66, 13599), (85, 13743),

Gene: BobbyDazzler_11 Start: 7274, Stop: 7759, Start Num: 32

Candidate Starts for BobbyDazzler_11:

(18, 7112), (Start: 32 @7274 has 36 MA's), (58, 7505), (69, 7571), (77, 7628),

Gene: BogosyJay_16 Start: 12052, Stop: 12585, Start Num: 30

Candidate Starts for BogosyJay_16:

(Start: 30 @12052 has 713 MA's), (33, 12100), (44, 12214), (64, 12355), (66, 12370), (68, 12382), (91, 12550), (92, 12553),

Gene: Bombshell_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Bombshell_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Bonamassa_12 Start: 10263, Stop: 10772, Start Num: 30

Candidate Starts for Bonamassa_12:

(Start: 30 @10263 has 713 MA's), (40, 10353), (56, 10506), (62, 10548), (66, 10575), (70, 10596), (76, 10644),

Gene: Bonanza_11 Start: 7203, Stop: 7688, Start Num: 32

Candidate Starts for Bonanza_11:

(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: Bones_14 Start: 10819, Stop: 11331, Start Num: 30

Candidate Starts for Bones_14:

(Start: 30 @10819 has 713 MA's), (60, 11092), (81, 11230), (87, 11290), (92, 11308),

Gene: Boohoo_17 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for Boohoo_17:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Bowtie_15 Start: 12152, Stop: 12673, Start Num: 30

Candidate Starts for Bowtie_15:

(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Bradshaw_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Bradshaw_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: BreSam8_16 Start: 10960, Stop: 11499, Start Num: 24

Candidate Starts for BreSam8_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (48, 11173), (66, 11305), (68, 11317),

Gene: Briton15_16 Start: 11131, Stop: 11643, Start Num: 30

Candidate Starts for Briton15_16:

(Start: 30 @11131 has 713 MA's), (45, 11296), (60, 11404), (81, 11542), (87, 11602), (92, 11620),

Gene: Broseidon_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Broseidon_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Bruiser_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Bruiser_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Bruns_13 Start: 10988, Stop: 11500, Start Num: 30

Candidate Starts for Bruns_13:

(Start: 30 @10988 has 713 MA's), (45, 11153), (60, 11261), (81, 11399), (87, 11459), (92, 11477),

Gene: Bryce_11 Start: 7203, Stop: 7688, Start Num: 32

Candidate Starts for Bryce_11:

(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: BubbleTrouble_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for BubbleTrouble_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Bud_15 Start: 12158, Stop: 12679, Start Num: 30
Candidate Starts for Bud_15:
(26, 12137), (Start: 30 @12158 has 713 MA's), (33, 12209), (41, 12272), (64, 12458),

Gene: Bugatti_14 Start: 10546, Stop: 11067, Start Num: 30
Candidate Starts for Bugatti_14:
(Start: 30 @10546 has 713 MA's), (47, 10720), (62, 10828), (68, 10867), (95, 11038),

Gene: Buggy_17 Start: 12067, Stop: 12594, Start Num: 30
Candidate Starts for Buggy_17:
(Start: 30 @12067 has 713 MA's), (64, 12367), (66, 12382), (85, 12535), (91, 12568),

Gene: Bumblebee11_14 Start: 10949, Stop: 11461, Start Num: 30
Candidate Starts for Bumblebee11_14:
(Start: 24 @10916 has 18 MA's), (Start: 30 @10949 has 713 MA's), (41, 11060), (54, 11171), (79, 11348),

Gene: Burger_13 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Burger_13:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Burton_15 Start: 11188, Stop: 11700, Start Num: 30
Candidate Starts for Burton_15:
(12, 10987), (13, 11002), (Start: 30 @11188 has 713 MA's), (45, 11353), (60, 11461), (81, 11599), (87, 11659), (92, 11677),

Gene: Buttons_15 Start: 11258, Stop: 11770, Start Num: 30
Candidate Starts for Buttons_15:
(Start: 30 @11258 has 713 MA's), (45, 11423), (60, 11531), (81, 11669), (87, 11729), (92, 11747),

Gene: BuzzBuzz_15 Start: 11087, Stop: 11590, Start Num: 30
Candidate Starts for BuzzBuzz_15:
(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's), (48, 11264), (66, 11396), (68, 11408),

Gene: Bxb1_13 Start: 11127, Stop: 11624, Start Num: 30
Candidate Starts for Bxb1_13:
(Start: 30 @11127 has 713 MA's), (55, 11343), (56, 11355), (70, 11445), (83, 11532), (86, 11574), (89, 11592),

Gene: Bxz2_16 Start: 11097, Stop: 11600, Start Num: 30
Candidate Starts for Bxz2_16:
(Start: 24 @11061 has 18 MA's), (Start: 29 @11076 has 20 MA's), (Start: 30 @11097 has 713 MA's), (48, 11274), (66, 11406), (68, 11418),

Gene: C3_13 Start: 11582, Stop: 12103, Start Num: 30
Candidate Starts for C3_13:
(20, 11534), (Start: 30 @11582 has 713 MA's), (42, 11726), (56, 11831), (64, 11885), (66, 11900), (85, 12044), (91, 12077),

Gene: CRB1_15 Start: 11588, Stop: 12115, Start Num: 30
Candidate Starts for CRB1_15:
(Start: 30 @11588 has 713 MA's), (66, 11903), (85, 12056), (91, 12089),

Gene: CactusRose_13 Start: 10808, Stop: 11320, Start Num: 30

Candidate Starts for CactusRose_13:

(Start: 30 @10808 has 713 MA's), (60, 11081), (81, 11219), (87, 11279), (92, 11297),

Gene: Caelakin_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Caelakin_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Camperdownii_13 Start: 10561, Stop: 11073, Start Num: 30

Candidate Starts for Camperdownii_13:

(Start: 24 @10528 has 18 MA's), (Start: 30 @10561 has 713 MA's), (41, 10672), (64, 10858), (79, 10960),

Gene: Candra_18 Start: 11710, Stop: 12240, Start Num: 30

Candidate Starts for Candra_18:

(Start: 30 @11710 has 713 MA's), (42, 11854), (55, 11947), (56, 11959), (74, 12085),

Gene: Caraxes_14 Start: 10281, Stop: 10805, Start Num: 30

Candidate Starts for Caraxes_14:

(Start: 30 @10281 has 713 MA's), (35, 10350), (42, 10422), (46, 10452), (66, 10596), (70, 10617), (85, 10743), (91, 10776), (93, 10785),

Gene: Carlyle_16 Start: 11656, Stop: 12168, Start Num: 30

Candidate Starts for Carlyle_16:

(Start: 30 @11656 has 713 MA's), (60, 11929), (81, 12067), (87, 12127), (92, 12145),

Gene: Catalina_16 Start: 12268, Stop: 12801, Start Num: 30

Candidate Starts for Catalina_16:

(Start: 30 @12268 has 713 MA's), (33, 12316), (44, 12430), (64, 12571), (66, 12586), (68, 12598), (91, 12766), (92, 12769),

Gene: Caviar_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Caviar_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Centaur_17 Start: 12098, Stop: 12622, Start Num: 30

Candidate Starts for Centaur_17:

(15, 11945), (Start: 24 @12062 has 18 MA's), (26, 12077), (Start: 30 @12098 has 713 MA's), (47, 12278), (64, 12398), (68, 12425), (70, 12434), (85, 12563), (91, 12596), (93, 12605), (95, 12608),

Gene: CentreCat_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for CentreCat_14:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Cerulean_14 Start: 10918, Stop: 11430, Start Num: 30

Candidate Starts for Cerulean_14:

(Start: 24 @10885 has 18 MA's), (Start: 30 @10918 has 713 MA's), (41, 11029), (70, 11251), (79, 11317),

Gene: Chadwick_13 Start: 10059, Stop: 10571, Start Num: 30

Candidate Starts for Chadwick_13:

(Start: 24 @10026 has 18 MA's), (Start: 30 @10059 has 713 MA's), (40, 10152), (62, 10347), (66, 10374), (76, 10443), (82, 10476), (90, 10542),

Gene: ChampagnePapi_14 Start: 10917, Stop: 11429, Start Num: 30

Candidate Starts for ChampagnePapi_14:

(Start: 24 @10884 has 18 MA's), (Start: 30 @10917 has 713 MA's), (41, 11028), (70, 11250), (79, 11316),

Gene: Chanagan_13 Start: 10651, Stop: 11163, Start Num: 30

Candidate Starts for Chanagan_13:

(Start: 30 @10651 has 713 MA's), (60, 10924), (81, 11062), (87, 11122), (92, 11140),

Gene: Changeling_18 Start: 13463, Stop: 13987, Start Num: 30

Candidate Starts for Changeling_18:

(Start: 24 @13424 has 18 MA's), (Start: 30 @13463 has 713 MA's), (35, 13532), (47, 13643), (70, 13799), (85, 13928),

Gene: Chaph_14 Start: 10948, Stop: 11460, Start Num: 30

Candidate Starts for Chaph_14:

(Start: 30 @10948 has 713 MA's), (41, 11059), (79, 11347),

Gene: Chargerpower_15 Start: 10766, Stop: 11284, Start Num: 30

Candidate Starts for Chargerpower_15:

(Start: 30 @10766 has 713 MA's), (34, 10820), (42, 10904), (55, 10997), (68, 11090), (85, 11225),

Gene: Charm_15 Start: 10498, Stop: 11028, Start Num: 30

Candidate Starts for Charm_15:

(Start: 29 @10477 has 20 MA's), (Start: 30 @10498 has 713 MA's), (33, 10549), (35, 10567), (55, 10732), (68, 10825),

Gene: Chartreuse_18 Start: 11624, Stop: 12154, Start Num: 30

Candidate Starts for Chartreuse_18:

(Start: 30 @11624 has 713 MA's), (42, 11768), (55, 11861), (56, 11873), (74, 11999),

Gene: Che12_16 Start: 10378, Stop: 10902, Start Num: 30

Candidate Starts for Che12_16:

(Start: 30 @10378 has 713 MA's), (35, 10447), (42, 10519), (46, 10549), (66, 10693), (70, 10714), (85, 10840), (91, 10873),

Gene: ChipMunk_17 Start: 12018, Stop: 12530, Start Num: 30

Candidate Starts for ChipMunk_17:

(Start: 24 @11982 has 18 MA's), (28, 11997), (Start: 30 @12018 has 713 MA's), (64, 12306), (68, 12333), (70, 12342), (85, 12471), (91, 12504),

Gene: Chupacabra_14 Start: 10702, Stop: 11223, Start Num: 30

Candidate Starts for Chupacabra_14:

(Start: 29 @10681 has 20 MA's), (Start: 30 @10702 has 713 MA's), (80, 11116),

Gene: Ciao_14 Start: 11038, Stop: 11550, Start Num: 30

Candidate Starts for Ciao_14:

(12, 10837), (13, 10852), (Start: 30 @11038 has 713 MA's), (45, 11203), (60, 11311), (81, 11449), (87, 11509), (92, 11527),

Gene: Cici_14 Start: 10937, Stop: 11452, Start Num: 30

Candidate Starts for Cici_14:

(Start: 24 @10904 has 18 MA's), (Start: 30 @10937 has 713 MA's), (54, 11162), (79, 11339),

Gene: Cindaradix_13 Start: 10649, Stop: 11173, Start Num: 30

Candidate Starts for Cindaradix_13:

(Start: 24 @10616 has 18 MA's), (Start: 30 @10649 has 713 MA's), (36, 10733), (41, 10772), (79, 11060),

Gene: Cintron_14 Start: 10987, Stop: 11499, Start Num: 30

Candidate Starts for Cintron_14:

(Start: 30 @10987 has 713 MA's), (41, 11098), (64, 11284), (79, 11386),

Gene: Citius_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Citius_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Clarenza_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Clarenza_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: CloudWang3_18 Start: 11655, Stop: 12185, Start Num: 30

Candidate Starts for CloudWang3_18:

(Start: 30 @11655 has 713 MA's), (42, 11799), (55, 11892), (56, 11904), (74, 12030),

Gene: Cocoaberry_14 Start: 10943, Stop: 11455, Start Num: 30

Candidate Starts for Cocoaberry_14:

(Start: 30 @10943 has 713 MA's), (41, 11054), (79, 11342),

Gene: Colbster_16 Start: 11003, Stop: 11506, Start Num: 30

Candidate Starts for Colbster_16:

(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: Colin_19 Start: 13279, Stop: 13803, Start Num: 30

Candidate Starts for Colin_19:

(15, 13123), (27, 13258), (Start: 30 @13279 has 713 MA's), (35, 13348), (56, 13525), (85, 13744),

Gene: Commander_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Commander_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: ConceptII_14 Start: 11289, Stop: 11801, Start Num: 30

Candidate Starts for ConceptII_14:

(12, 11088), (13, 11103), (Start: 30 @11289 has 713 MA's), (45, 11454), (60, 11562), (81, 11700), (87, 11760), (92, 11778),

Gene: Connomayer_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Connomayer_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Conquerage_16 Start: 12297, Stop: 12830, Start Num: 30

Candidate Starts for Conquerage_16:

(Start: 30 @12297 has 713 MA's), (33, 12345), (44, 12459), (64, 12600), (66, 12615), (68, 12627), (91, 12795), (92, 12798),

Gene: Conspiracy_12 Start: 10081, Stop: 10590, Start Num: 30

Candidate Starts for Conspiracy_12:

(Start: 30 @10081 has 713 MA's), (40, 10171), (56, 10324), (62, 10366), (66, 10393), (70, 10414), (76, 10462),

Gene: Coog_12 Start: 10231, Stop: 10740, Start Num: 30

Candidate Starts for Coog_12:

(Start: 30 @10231 has 713 MA's), (40, 10321), (56, 10474), (62, 10516), (66, 10543), (70, 10564), (76, 10612),

Gene: Cookiedough_18 Start: 11667, Stop: 12197, Start Num: 30

Candidate Starts for Cookiedough_18:

(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Corvo_14 Start: 11232, Stop: 11744, Start Num: 30

Candidate Starts for Corvo_14:

(Start: 30 @11232 has 713 MA's), (45, 11397), (60, 11505), (81, 11643), (87, 11703), (92, 11721),

Gene: CosmicSans_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for CosmicSans_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Crispicous1_13 Start: 10518, Stop: 11030, Start Num: 30

Candidate Starts for Crispicous1_13:

(Start: 30 @10518 has 713 MA's), (45, 10683), (60, 10791), (81, 10929), (87, 10989), (92, 11007),

Gene: Crucio_15 Start: 11565, Stop: 12077, Start Num: 30

Candidate Starts for Crucio_15:

(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: Cuco_12 Start: 10262, Stop: 10771, Start Num: 30

Candidate Starts for Cuco_12:

(Start: 30 @10262 has 713 MA's), (40, 10352), (56, 10505), (62, 10547), (66, 10574), (70, 10595), (76, 10643),

Gene: Cueyllyss_14 Start: 11228, Stop: 11740, Start Num: 30

Candidate Starts for Cueyllyss_14:

(13, 11042), (Start: 30 @11228 has 713 MA's), (60, 11501), (81, 11639), (87, 11699), (92, 11717),

Gene: Cullens_16 Start: 10965, Stop: 11504, Start Num: 24

Candidate Starts for Cullens_16:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: D29_16 Start: 11525, Stop: 12046, Start Num: 30

Candidate Starts for D29_16:

(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: D32_18 Start: 11525, Stop: 12046, Start Num: 30

Candidate Starts for D32_18:

(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: DBQu4n_18 Start: 11525, Stop: 12046, Start Num: 30

Candidate Starts for DBQu4n_18:

(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: DD5_15 Start: 11768, Stop: 12280, Start Num: 30

Candidate Starts for DD5_15:

(Start: 30 @11768 has 713 MA's), (60, 12041), (81, 12179), (87, 12239), (92, 12257),

Gene: DaHudson_16 Start: 10995, Stop: 11498, Start Num: 30

Candidate Starts for DaHudson_16:

(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: DaVinci_18 Start: 11678, Stop: 12208, Start Num: 30

Candidate Starts for DaVinci_18:

(Start: 30 @11678 has 713 MA's), (42, 11822), (55, 11915), (56, 11927), (74, 12053),

Gene: Daishi_15 Start: 9928, Stop: 10431, Start Num: 30

Candidate Starts for Daishi_15:

(Start: 24 @9892 has 18 MA's), (Start: 29 @9907 has 20 MA's), (Start: 30 @9928 has 713 MA's), (48, 10105), (66, 10237), (68, 10249),

Gene: Dalmatian_15 Start: 11715, Stop: 12227, Start Num: 30

Candidate Starts for Dalmatian_15:

(Start: 24 @11679 has 18 MA's), (28, 11694), (Start: 30 @11715 has 713 MA's), (64, 12003), (68, 12030), (85, 12168),

Gene: Danforth_11 Start: 9822, Stop: 10328, Start Num: 30

Candidate Starts for Danforth_11:

(Start: 30 @9822 has 713 MA's), (51, 10014), (57, 10071), (61, 10095), (66, 10128), (70, 10149), (84, 10254),

Gene: Darrell_17 Start: 12486, Stop: 13019, Start Num: 30

Candidate Starts for Darrell_17:

(Start: 30 @12486 has 713 MA's), (33, 12534), (44, 12648), (64, 12789), (66, 12804), (68, 12816), (91, 12984), (92, 12987),

Gene: DARTHPhader_16 Start: 12456, Stop: 12989, Start Num: 30

Candidate Starts for DARTHPhader_16:

(Start: 30 @12456 has 713 MA's), (42, 12594), (49, 12639), (64, 12753), (89, 12942),

Gene: Datway_14 Start: 10955, Stop: 11470, Start Num: 30

Candidate Starts for Datway_14:

(4, 10664), (7, 10715), (10, 10751), (11, 10754), (Start: 24 @10922 has 18 MA's), (Start: 30 @10955 has 713 MA's), (79, 11357),

Gene: Deano_14 Start: 10947, Stop: 11459, Start Num: 30

Candidate Starts for Deano_14:

(Start: 24 @10914 has 18 MA's), (Start: 30 @10947 has 713 MA's), (41, 11058), (64, 11244), (79, 11346),

Gene: DekHockey33_17 Start: 10872, Stop: 11384, Start Num: 30

Candidate Starts for DekHockey33_17:

(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: Deloris_16 Start: 12045, Stop: 12557, Start Num: 30

Candidate Starts for Deloris_16:

(Start: 24 @12009 has 18 MA's), (26, 12024), (Start: 30 @12045 has 713 MA's), (38, 12123), (64, 12336), (77, 12426), (85, 12498),

Gene: Dexes_15 Start: 11733, Stop: 12245, Start Num: 30

Candidate Starts for Dexes_15:

(12, 11532), (13, 11547), (Start: 30 @11733 has 713 MA's), (60, 12006), (81, 12144), (87, 12204), (92, 12222),

Gene: Dhanush_14 Start: 10942, Stop: 11454, Start Num: 30

Candidate Starts for Dhanush_14:

(Start: 30 @10942 has 713 MA's), (41, 11053), (79, 11341),

Gene: Dieselweasel_16 Start: 11004, Stop: 11507, Start Num: 30

Candidate Starts for Dieselweasel_16:

(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's), (48, 11181), (66, 11313), (68, 11325),

Gene: Dignity_17 Start: 12012, Stop: 12539, Start Num: 30

Candidate Starts for Dignity_17:

(Start: 30 @12012 has 713 MA's), (64, 12312), (66, 12327), (85, 12480), (91, 12513),

Gene: Dinger_11 Start: 7199, Stop: 7684, Start Num: 32

Candidate Starts for Dinger_11:

(18, 7037), (Start: 32 @7199 has 36 MA's), (58, 7430), (69, 7496), (77, 7553),

Gene: DirtyDunning_14 Start: 10935, Stop: 11447, Start Num: 30

Candidate Starts for DirtyDunning_14:

(Start: 30 @10935 has 713 MA's), (41, 11046), (79, 11334),

Gene: Discoknowium_12 Start: 10371, Stop: 10880, Start Num: 30

Candidate Starts for Discoknowium_12:

(Start: 30 @10371 has 713 MA's), (40, 10461), (56, 10614), (62, 10656), (66, 10683), (76, 10752),

Gene: Dixon_12 Start: 9841, Stop: 10347, Start Num: 30

Candidate Starts for Dixon_12:

(Start: 30 @9841 has 713 MA's), (51, 10033), (57, 10090), (61, 10114), (66, 10147), (70, 10168), (84, 10273),

Gene: Doom_14 Start: 11311, Stop: 11823, Start Num: 30

Candidate Starts for Doom_14:

(Start: 30 @11311 has 713 MA's), (45, 11476), (60, 11584), (81, 11722), (87, 11782), (92, 11800),

Gene: Dorothea_17 Start: 11677, Stop: 12207, Start Num: 30

Candidate Starts for Dorothea_17:

(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: DrFeelGood_13 Start: 10835, Stop: 11347, Start Num: 30

Candidate Starts for DrFeelGood_13:

(Start: 30 @10835 has 713 MA's), (45, 11000), (60, 11108), (81, 11246), (87, 11306), (92, 11324),

Gene: Drake55_17 Start: 12116, Stop: 12640, Start Num: 30

Candidate Starts for Drake55_17:

(Start: 24 @12080 has 18 MA's), (26, 12095), (Start: 30 @12116 has 713 MA's), (57, 12377), (64, 12416), (85, 12581), (91, 12614),

Gene: Drake94_13 Start: 8806, Stop: 9327, Start Num: 30

Candidate Starts for Drake94_13:

(Start: 29 @8785 has 20 MA's), (Start: 30 @8806 has 713 MA's), (47, 8992), (55, 9046),

Gene: DreamCatcher_17 Start: 12264, Stop: 12776, Start Num: 30

Candidate Starts for DreamCatcher_17:

(Start: 30 @12264 has 713 MA's), (45, 12429), (60, 12537), (81, 12675), (87, 12735), (92, 12753),

Gene: DreamTeam1_15 Start: 10498, Stop: 11028, Start Num: 30

Candidate Starts for DreamTeam1_15:

(Start: 29 @10477 has 20 MA's), (Start: 30 @10498 has 713 MA's), (33, 10549), (35, 10567), (55, 10732), (68, 10825),

Gene: Dreamboat_15 Start: 10963, Stop: 11475, Start Num: 30

Candidate Starts for Dreamboat_15:

(Start: 30 @10963 has 713 MA's), (45, 11128), (60, 11236), (81, 11374), (87, 11434), (92, 11452),

Gene: DroogsArmy_15 Start: 12278, Stop: 12781, Start Num: 30

Candidate Starts for DroogsArmy_15:

(Start: 30 @12278 has 713 MA's), (38, 12350), (47, 12443), (68, 12590), (77, 12653), (88, 12746), (89, 12749), (90, 12755),

Gene: Druantia_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for Druantia_14:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Dublin_11 Start: 10230, Stop: 10739, Start Num: 30

Candidate Starts for Dublin_11:

(Start: 30 @10230 has 713 MA's), (40, 10320), (56, 10473), (62, 10515), (66, 10542), (70, 10563), (76, 10611),

Gene: DudeLittle_15 Start: 11717, Stop: 12229, Start Num: 30

Candidate Starts for DudeLittle_15:

(Start: 24 @11681 has 18 MA's), (28, 11696), (Start: 30 @11717 has 713 MA's), (64, 12005), (68, 12032), (85, 12170),

Gene: Dulcie_13 Start: 10710, Stop: 11222, Start Num: 30

Candidate Starts for Dulcie_13:

(12, 10509), (13, 10524), (Start: 30 @10710 has 713 MA's), (60, 10983), (81, 11121), (87, 11181), (92, 11199),

Gene: Duplo_18 Start: 11566, Stop: 12087, Start Num: 30
Candidate Starts for Duplo_18:
(Start: 24 @11530 has 18 MA's), (26, 11545), (Start: 30 @11566 has 713 MA's), (33, 11617), (66, 11881), (70, 11902), (91, 12061),

Gene: Dussy_15 Start: 11070, Stop: 11582, Start Num: 30
Candidate Starts for Dussy_15:
(Start: 30 @11070 has 713 MA's), (45, 11235), (60, 11343), (81, 11481), (87, 11541), (92, 11559),

Gene: Dynamix_15 Start: 11120, Stop: 11632, Start Num: 30
Candidate Starts for Dynamix_15:
(Start: 30 @11120 has 713 MA's), (60, 11393), (81, 11531), (87, 11591), (92, 11609),

Gene: EZMoney23_19 Start: 13587, Stop: 14105, Start Num: 30
Candidate Starts for EZMoney23_19:
(Start: 30 @13587 has 713 MA's), (34, 13638), (68, 13908), (85, 14046),

Gene: Eagle_13 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Eagle_13:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: EagleEye_17 Start: 11847, Stop: 12374, Start Num: 30
Candidate Starts for EagleEye_17:
(9, 11625), (Start: 30 @11847 has 713 MA's), (68, 12168), (72, 12204),

Gene: Eaglepride_15 Start: 10702, Stop: 11223, Start Num: 30
Candidate Starts for Eaglepride_15:
(Start: 29 @10681 has 20 MA's), (Start: 30 @10702 has 713 MA's), (80, 11116),

Gene: Eapen_14 Start: 10941, Stop: 11453, Start Num: 30
Candidate Starts for Eapen_14:
(Start: 30 @10941 has 713 MA's), (41, 11052), (79, 11340),

Gene: Ebony_15 Start: 12210, Stop: 12731, Start Num: 30
Candidate Starts for Ebony_15:
(26, 12189), (Start: 30 @12210 has 713 MA's), (33, 12261), (41, 12324), (64, 12510),

Gene: Echild_15 Start: 11720, Stop: 12232, Start Num: 30
Candidate Starts for Echild_15:
(Start: 24 @11684 has 18 MA's), (28, 11699), (Start: 30 @11720 has 713 MA's), (64, 12008), (68, 12035), (85, 12173),

Gene: Edison31_14 Start: 10731, Stop: 11252, Start Num: 30
Candidate Starts for Edison31_14:
(Start: 29 @10710 has 20 MA's), (Start: 30 @10731 has 713 MA's), (37, 10818),

Gene: Edtherson_15 Start: 11568, Stop: 12080, Start Num: 30
Candidate Starts for Edtherson_15:
(13, 11382), (Start: 30 @11568 has 713 MA's), (60, 11841), (81, 11979), (87, 12039), (92, 12057),

Gene: Eidsmoe_16 Start: 12297, Stop: 12830, Start Num: 30
Candidate Starts for Eidsmoe_16:

(Start: 30 @12297 has 713 MA's), (33, 12345), (44, 12459), (64, 12600), (66, 12615), (68, 12627), (91, 12795), (92, 12798),

Gene: EITiger69_12 Start: 10089, Stop: 10601, Start Num: 30

Candidate Starts for EITiger69_12:

(Start: 24 @10056 has 18 MA's), (Start: 30 @10089 has 713 MA's), (40, 10182), (62, 10377), (66, 10404), (76, 10473), (82, 10506), (90, 10572),

Gene: Elephantoon_16 Start: 11916, Stop: 12449, Start Num: 30

Candidate Starts for Elephantoon_16:

(Start: 30 @11916 has 713 MA's), (33, 11964), (44, 12078), (64, 12219), (66, 12234), (68, 12246), (91, 12414), (92, 12417),

Gene: EmyBug_16 Start: 12297, Stop: 12830, Start Num: 30

Candidate Starts for EmyBug_16:

(Start: 30 @12297 has 713 MA's), (33, 12345), (44, 12459), (64, 12600), (66, 12615), (68, 12627), (91, 12795), (92, 12798),

Gene: EpicPhail_16 Start: 11003, Stop: 11506, Start Num: 30

Candidate Starts for EpicPhail_16:

(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: Epsocamisio_17 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for Epsocamisio_17:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Equemioh13_17 Start: 12101, Stop: 12625, Start Num: 30

Candidate Starts for Equemioh13_17:

(15, 11948), (Start: 24 @12065 has 18 MA's), (26, 12080), (Start: 30 @12101 has 713 MA's), (47, 12281), (64, 12401), (68, 12428), (85, 12566), (91, 12599), (93, 12608), (95, 12611),

Gene: EricB_18 Start: 11668, Stop: 12198, Start Num: 30

Candidate Starts for EricB_18:

(Start: 30 @11668 has 713 MA's), (42, 11812), (55, 11905), (56, 11917), (74, 12043),

Gene: Erik_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Erik_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Eris_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Eris_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Eros_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Eros_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Espica_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Espica_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Espresso_14 Start: 11163, Stop: 11675, Start Num: 30

Candidate Starts for Espresso_14:

(Start: 30 @11163 has 713 MA's), (45, 11328), (60, 11436), (81, 11574), (87, 11634), (92, 11652),

Gene: Et2Brutus_14 Start: 12155, Stop: 12676, Start Num: 30

Candidate Starts for Et2Brutus_14:

(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: Euphoria_14 Start: 11059, Stop: 11571, Start Num: 30

Candidate Starts for Euphoria_14:

(Start: 30 @11059 has 713 MA's), (45, 11224), (60, 11332), (81, 11470), (87, 11530), (92, 11548),

Gene: Eurydice_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Eurydice_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: EvilGenius_17 Start: 12028, Stop: 12540, Start Num: 30

Candidate Starts for EvilGenius_17:

(Start: 24 @11992 has 18 MA's), (28, 12007), (Start: 30 @12028 has 713 MA's), (64, 12316), (68, 12343), (70, 12352), (85, 12481), (91, 12514),

Gene: Expelliarmus_11 Start: 9808, Stop: 10314, Start Num: 30

Candidate Starts for Expelliarmus_11:

(Start: 30 @9808 has 713 MA's), (51, 10000), (57, 10057), (61, 10081), (66, 10114), (70, 10135), (84, 10240),

Gene: ExplosioNervosa_16 Start: 12300, Stop: 12833, Start Num: 30

Candidate Starts for ExplosioNervosa_16:

(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: Eyeball_14 Start: 10807, Stop: 11319, Start Num: 30

Candidate Starts for Eyeball_14:

(8, 10561), (12, 10606), (13, 10621), (Start: 30 @10807 has 713 MA's), (60, 11080), (81, 11218), (87, 11278), (92, 11296),

Gene: Fajezeel_16 Start: 11383, Stop: 11895, Start Num: 30

Candidate Starts for Fajezeel_16:

(Start: 30 @11383 has 713 MA's), (60, 11656), (81, 11794), (87, 11854), (92, 11872),

Gene: Fameo_15 Start: 11633, Stop: 12145, Start Num: 30

Candidate Starts for Fameo_15:

(Start: 24 @11597 has 18 MA's), (28, 11612), (Start: 30 @11633 has 713 MA's), (64, 11921), (68, 11948), (85, 12086),

Gene: Farber_16 Start: 10996, Stop: 11499, Start Num: 30

Candidate Starts for Farber_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (48, 11173), (66, 11305), (68, 11317),

Gene: Fascinus_13 Start: 10810, Stop: 11322, Start Num: 30

Candidate Starts for Fascinus_13:

(12, 10609), (13, 10624), (Start: 30 @10810 has 713 MA's), (60, 11083), (81, 11221), (87, 11281), (92, 11299),

Gene: Fayely_16 Start: 12300, Stop: 12833, Start Num: 30
Candidate Starts for Fayely_16:
(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: Fenn_15 Start: 12374, Stop: 12886, Start Num: 30
Candidate Starts for Fenn_15:
(13, 12188), (Start: 30 @12374 has 713 MA's), (45, 12539), (60, 12647), (81, 12785), (87, 12845), (92, 12863),

Gene: Fernando_16 Start: 11001, Stop: 11504, Start Num: 30
Candidate Starts for Fernando_16:
(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Fibonacci_15 Start: 12155, Stop: 12676, Start Num: 30
Candidate Starts for Fibonacci_15:
(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: FiringLine_15 Start: 11565, Stop: 12077, Start Num: 30
Candidate Starts for FiringLine_15:
(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: First_0015 Start: 11599, Stop: 12150, Start Num: 24
Candidate Starts for First_0015:
(Start: 24 @11599 has 18 MA's), (26, 11614), (Start: 30 @11635 has 713 MA's), (38, 11713), (64, 11926), (68, 11953), (85, 12091),

Gene: Flare16_15 Start: 11659, Stop: 12183, Start Num: 30
Candidate Starts for Flare16_15:
(15, 11506), (Start: 24 @11623 has 18 MA's), (26, 11638), (Start: 30 @11659 has 713 MA's), (47, 11839), (64, 11959), (68, 11986), (85, 12124), (91, 12157), (93, 12166), (95, 12169),

Gene: Flaverint_15 Start: 12152, Stop: 12673, Start Num: 30
Candidate Starts for Flaverint_15:
(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Florean_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Florean_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Flux_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Flux_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: ForGetIt_12 Start: 10107, Stop: 10616, Start Num: 30
Candidate Starts for ForGetIt_12:
(Start: 30 @10107 has 713 MA's), (40, 10197), (56, 10350), (62, 10392), (66, 10419), (70, 10440), (76, 10488),

Gene: Forsytheast_13 Start: 11073, Stop: 11585, Start Num: 30

Candidate Starts for Forsytheast_13:

(Start: 30 @11073 has 713 MA's), (60, 11346), (81, 11484), (87, 11544), (92, 11562),

Gene: Francis47_14 Start: 11311, Stop: 11823, Start Num: 30

Candidate Starts for Francis47_14:

(8, 11065), (12, 11110), (13, 11125), (Start: 30 @11311 has 713 MA's), (60, 11584), (81, 11722), (87, 11782), (92, 11800),

Gene: Fred313_14 Start: 10249, Stop: 10773, Start Num: 30

Candidate Starts for Fred313_14:

(Start: 30 @10249 has 713 MA's), (47, 10426), (62, 10534), (68, 10573),

Gene: Froghopper_15 Start: 10752, Stop: 11264, Start Num: 30

Candidate Starts for Froghopper_15:

(Start: 30 @10752 has 713 MA's), (45, 10917), (60, 11025), (81, 11163), (87, 11223), (92, 11241),

Gene: Funston_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Funston_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Fushigi_15 Start: 11475, Stop: 11987, Start Num: 30

Candidate Starts for Fushigi_15:

(13, 11289), (Start: 30 @11475 has 713 MA's), (45, 11640), (60, 11748), (81, 11886), (87, 11946), (92, 11964),

Gene: Gadost_14 Start: 10943, Stop: 11455, Start Num: 30

Candidate Starts for Gadost_14:

(Start: 30 @10943 has 713 MA's), (41, 11054), (79, 11342),

Gene: GageAP_16 Start: 11800, Stop: 12312, Start Num: 30

Candidate Starts for GageAP_16:

(Start: 30 @11800 has 713 MA's), (60, 12073), (81, 12211), (87, 12271), (92, 12289),

Gene: Gail_14 Start: 10686, Stop: 11198, Start Num: 30

Candidate Starts for Gail_14:

(Start: 30 @10686 has 713 MA's), (55, 10914), (77, 11070), (85, 11142),

Gene: Gandalf20_15 Start: 11867, Stop: 12379, Start Num: 30

Candidate Starts for Gandalf20_15:

(Start: 30 @11867 has 713 MA's), (60, 12140), (81, 12278), (87, 12338), (92, 12356),

Gene: Garak_19 Start: 11681, Stop: 12202, Start Num: 30

Candidate Starts for Garak_19:

(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (55, 11909), (56, 11921), (74, 12047),

Gene: GaugeLDP_17 Start: 12926, Stop: 13450, Start Num: 30

Candidate Starts for GaugeLDP_17:

(Start: 30 @12926 has 713 MA's), (35, 12992), (42, 13064), (64, 13223), (74, 13295),

Gene: Gemma_16 Start: 11075, Stop: 11578, Start Num: 30

Candidate Starts for Gemma_16:

(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: George_11 Start: 10263, Stop: 10772, Start Num: 30

Candidate Starts for George_11:

(Start: 30 @10263 has 713 MA's), (40, 10353), (56, 10506), (62, 10548), (66, 10575), (70, 10596), (76, 10644),

Gene: Georgie2_16 Start: 11566, Stop: 12078, Start Num: 30

Candidate Starts for Georgie2_16:

(Start: 24 @11530 has 18 MA's), (28, 11545), (Start: 30 @11566 has 713 MA's), (64, 11854), (68, 11881), (85, 12019),

Gene: Ghouboy_12 Start: 10340, Stop: 10849, Start Num: 30

Candidate Starts for Ghouboy_12:

(Start: 30 @10340 has 713 MA's), (40, 10430), (56, 10583), (62, 10625), (66, 10652), (76, 10721),

Gene: Gilberta_15 Start: 12149, Stop: 12670, Start Num: 30

Candidate Starts for Gilberta_15:

(26, 12128), (Start: 30 @12149 has 713 MA's), (33, 12200), (41, 12263), (64, 12449),

Gene: GingkoMaracino_16 Start: 10889, Stop: 11392, Start Num: 30

Candidate Starts for GingkoMaracino_16:

(Start: 24 @10853 has 18 MA's), (Start: 29 @10868 has 20 MA's), (Start: 30 @10889 has 713 MA's), (48, 11066), (66, 11198), (68, 11210),

Gene: Giroux_14 Start: 10546, Stop: 11067, Start Num: 30

Candidate Starts for Giroux_14:

(Start: 30 @10546 has 713 MA's), (47, 10720), (62, 10828), (68, 10867), (95, 11038),

Gene: Gladiator_18 Start: 11655, Stop: 12176, Start Num: 30

Candidate Starts for Gladiator_18:

(16, 11559), (Start: 30 @11655 has 713 MA's), (33, 11703), (42, 11790), (56, 11895), (74, 12021),

Gene: Gollum_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Gollum_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Gompeii16_14 Start: 11271, Stop: 11783, Start Num: 30

Candidate Starts for Gompeii16_14:

(12, 11070), (13, 11085), (Start: 30 @11271 has 713 MA's), (45, 11436), (60, 11544), (81, 11682), (87, 11742), (92, 11760),

Gene: Goose_14 Start: 10703, Stop: 11224, Start Num: 30

Candidate Starts for Goose_14:

(Start: 29 @10682 has 20 MA's), (Start: 30 @10703 has 713 MA's), (80, 11117),

Gene: Graduation_16 Start: 11833, Stop: 12345, Start Num: 30

Candidate Starts for Graduation_16:

(12, 11632), (13, 11647), (Start: 30 @11833 has 713 MA's), (60, 12106), (81, 12244), (87, 12304), (92, 12322),

Gene: GrecoEtereo_15 Start: 11371, Stop: 11883, Start Num: 30

Candidate Starts for GrecoEtereo_15:

(12, 11170), (13, 11185), (Start: 30 @11371 has 713 MA's), (45, 11536), (60, 11644), (81, 11782), (87, 11842), (92, 11860),

Gene: GreedyLawyer_18 Start: 11677, Stop: 12207, Start Num: 30

Candidate Starts for GreedyLawyer_18:

(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: Greg_16 Start: 11383, Stop: 11895, Start Num: 30

Candidate Starts for Greg_16:

(Start: 30 @11383 has 713 MA's), (60, 11656), (81, 11794), (87, 11854), (92, 11872),

Gene: Grif_16 Start: 11086, Stop: 11589, Start Num: 30

Candidate Starts for Grif_16:

(Start: 24 @11050 has 18 MA's), (Start: 29 @11065 has 20 MA's), (Start: 30 @11086 has 713 MA's), (48, 11263), (66, 11395), (68, 11407),

Gene: Groundhog_11 Start: 9809, Stop: 10315, Start Num: 30

Candidate Starts for Groundhog_11:

(Start: 30 @9809 has 713 MA's), (51, 10001), (57, 10058), (61, 10082), (66, 10115), (70, 10136), (84, 10241),

Gene: Groupthink_17 Start: 11075, Stop: 11578, Start Num: 30

Candidate Starts for Groupthink_17:

(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: Grub_16 Start: 10995, Stop: 11498, Start Num: 30

Candidate Starts for Grub_16:

(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: Grum1_16 Start: 10960, Stop: 11499, Start Num: 24

Candidate Starts for Grum1_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (48, 11173), (66, 11305), (68, 11317),

Gene: Gruunaga_18 Start: 11655, Stop: 12176, Start Num: 30

Candidate Starts for Gruunaga_18:

(16, 11559), (Start: 30 @11655 has 713 MA's), (33, 11703), (42, 11790), (56, 11895), (74, 12021),

Gene: GtownJaz_16 Start: 11004, Stop: 11507, Start Num: 30

Candidate Starts for GtownJaz_16:

(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's), (48, 11181), (66, 11313), (68, 11325),

Gene: Gwendoluna_16 Start: 12253, Stop: 12765, Start Num: 30

Candidate Starts for Gwendoluna_16:

(Start: 30 @12253 has 713 MA's), (60, 12526), (81, 12664), (87, 12724), (92, 12742),

Gene: Gyzlar_16 Start: 12014, Stop: 12526, Start Num: 30

Candidate Starts for Gyzlar_16:

(12, 11813), (13, 11828), (Start: 30 @12014 has 713 MA's), (45, 12179), (60, 12287), (81, 12425), (87, 12485), (92, 12503),

Gene: HINdeR_14 Start: 12384, Stop: 12887, Start Num: 30

Candidate Starts for HINdeR_14:

(Start: 30 @12384 has 713 MA's), (38, 12456), (41, 12483), (68, 12696), (74, 12741), (77, 12759), (88, 12852), (89, 12855), (90, 12861),

Gene: HamSlice_13 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for HamSlice_13:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Hami1_16 Start: 11455, Stop: 11967, Start Num: 30

Candidate Starts for Hami1_16:

(Start: 30 @11455 has 713 MA's), (60, 11728), (81, 11866), (87, 11926), (92, 11944),

Gene: Hammer_18 Start: 11655, Stop: 12176, Start Num: 30

Candidate Starts for Hammer_18:

(16, 11559), (Start: 30 @11655 has 713 MA's), (33, 11703), (42, 11790), (56, 11895), (74, 12021),

Gene: HanShotFirst_14 Start: 10675, Stop: 11187, Start Num: 30

Candidate Starts for HanShotFirst_14:

(Start: 30 @10675 has 713 MA's), (60, 10948), (81, 11086), (87, 11146), (92, 11164),

Gene: Happiness_14 Start: 10945, Stop: 11457, Start Num: 30

Candidate Starts for Happiness_14:

(Start: 24 @10912 has 18 MA's), (Start: 30 @10945 has 713 MA's), (41, 11056), (70, 11278), (79, 11344),

Gene: Harlequin_11 Start: 7203, Stop: 7688, Start Num: 32

Candidate Starts for Harlequin_11:

(Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: HarryHoudini_17 Start: 12116, Stop: 12640, Start Num: 30

Candidate Starts for HarryHoudini_17:

(Start: 24 @12080 has 18 MA's), (26, 12095), (Start: 30 @12116 has 713 MA's), (57, 12377), (85, 12581), (91, 12614),

Gene: HarryOW_15 Start: 11371, Stop: 11883, Start Num: 30

Candidate Starts for HarryOW_15:

(12, 11170), (13, 11185), (Start: 30 @11371 has 713 MA's), (45, 11536), (60, 11644), (81, 11782), (87, 11842), (92, 11860),

Gene: HashRod_17 Start: 11087, Stop: 11590, Start Num: 30

Candidate Starts for HashRod_17:

(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's), (48, 11264), (66, 11396), (68, 11408),

Gene: HaveUMetTed_17 Start: 11075, Stop: 11578, Start Num: 30

Candidate Starts for HaveUMetTed_17:

(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (62, 11357), (66, 11384), (68, 11396),

Gene: Heathen_14 Start: 10347, Stop: 10868, Start Num: 30
Candidate Starts for Heathen_14:
(Start: 30 @10347 has 713 MA's), (47, 10521), (62, 10629), (68, 10668), (95, 10839),

Gene: Heffalump_17 Start: 13435, Stop: 13947, Start Num: 30
Candidate Starts for Heffalump_17:
(Start: 24 @13396 has 18 MA's), (28, 13414), (Start: 30 @13435 has 713 MA's), (64, 13723), (68, 13750), (85, 13888),

Gene: HelDan_14 Start: 10599, Stop: 11120, Start Num: 30
Candidate Starts for HelDan_14:
(Start: 30 @10599 has 713 MA's), (47, 10773), (62, 10881), (68, 10920), (95, 11091),

Gene: Heliosoles_16 Start: 11075, Stop: 11578, Start Num: 30
Candidate Starts for Heliosoles_16:
(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: Helmet_19 Start: 11681, Stop: 12202, Start Num: 30
Candidate Starts for Helmet_19:
(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (55, 11909), (56, 11921), (74, 12047),

Gene: Herbertwm_13 Start: 10459, Stop: 10968, Start Num: 30
Candidate Starts for Herbertwm_13:
(19, 10414), (Start: 30 @10459 has 713 MA's), (46, 10624), (91, 10945), (92, 10948),

Gene: Hercules11_16 Start: 10989, Stop: 11513, Start Num: 29
Candidate Starts for Hercules11_16:
(Start: 24 @10974 has 18 MA's), (Start: 29 @10989 has 20 MA's), (Start: 30 @11010 has 713 MA's), (48, 11187), (66, 11319), (68, 11331),

Gene: Hermia_16 Start: 11814, Stop: 12326, Start Num: 30
Candidate Starts for Hermia_16:
(Start: 30 @11814 has 713 MA's), (45, 11979), (60, 12087), (81, 12225), (87, 12285), (92, 12303),

Gene: HermioneGrange_14 Start: 10785, Stop: 11297, Start Num: 30
Candidate Starts for HermioneGrange_14:
(Start: 30 @10785 has 713 MA's), (45, 10950), (60, 11058), (81, 11196), (87, 11256), (92, 11274),

Gene: Hexamo_18 Start: 11636, Stop: 12157, Start Num: 30
Candidate Starts for Hexamo_18:
(16, 11540), (Start: 30 @11636 has 713 MA's), (33, 11684), (42, 11771), (55, 11864), (56, 11876), (74, 12002),

Gene: Hiro_11 Start: 7203, Stop: 7688, Start Num: 32
Candidate Starts for Hiro_11:
(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: Holli_14 Start: 10732, Stop: 11244, Start Num: 30
Candidate Starts for Holli_14:
(Start: 30 @10732 has 713 MA's), (41, 10843), (79, 11131),

Gene: Homines_14 Start: 11090, Stop: 11602, Start Num: 30

Candidate Starts for Homines_14:

(12, 10889), (13, 10904), (Start: 30 @11090 has 713 MA's), (45, 11255), (60, 11363), (81, 11501), (87, 11561), (92, 11579),

Gene: Hookmount_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Hookmount_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Hoot_18 Start: 11656, Stop: 12186, Start Num: 30

Candidate Starts for Hoot_18:

(Start: 30 @11656 has 713 MA's), (42, 11800), (55, 11893), (56, 11905), (74, 12031),

Gene: Hope4ever_14 Start: 11192, Stop: 11704, Start Num: 30

Candidate Starts for Hope4ever_14:

(13, 11006), (Start: 30 @11192 has 713 MA's), (45, 11357), (60, 11465), (81, 11603), (87, 11663), (92, 11681),

Gene: HortumSL17_16 Start: 12267, Stop: 12800, Start Num: 30

Candidate Starts for HortumSL17_16:

(Start: 30 @12267 has 713 MA's), (33, 12315), (44, 12429), (64, 12570), (66, 12585), (68, 12597), (91, 12765), (92, 12768),

Gene: Houdini22_14 Start: 10943, Stop: 11455, Start Num: 30

Candidate Starts for Houdini22_14:

(Start: 30 @10943 has 713 MA's), (41, 11054), (79, 11342),

Gene: HuhtaEnerson15_12 Start: 10263, Stop: 10772, Start Num: 30

Candidate Starts for HuhtaEnerson15_12:

(Start: 30 @10263 has 713 MA's), (40, 10353), (56, 10506), (62, 10548), (66, 10575), (70, 10596), (76, 10644),

Gene: Hum25_5 Start: 4509, Stop: 4997, Start Num: 30

Candidate Starts for Hum25_5:

(21, 4467), (Start: 30 @4509 has 713 MA's), (63, 4782), (65, 4800), (78, 4881), (87, 4962),

Gene: Hutc2_15 Start: 12155, Stop: 12676, Start Num: 30

Candidate Starts for Hutc2_15:

(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: ICleared_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for ICleared_14:

(4, 10649), (11, 10739), (Start: 30 @10940 has 713 MA's), (41, 11051), (64, 11237), (79, 11339),

Gene: ILeeKay_16 Start: 11244, Stop: 11756, Start Num: 30

Candidate Starts for ILeeKay_16:

(13, 11058), (Start: 30 @11244 has 713 MA's), (60, 11517), (81, 11655), (87, 11715), (92, 11733),

Gene: Iceman_14 Start: 10941, Stop: 11453, Start Num: 30

Candidate Starts for Iceman_14:

(Start: 24 @10908 has 18 MA's), (Start: 30 @10941 has 713 MA's), (41, 11052), (64, 11238), (79, 11340),

Gene: Ichabod_15 Start: 11096, Stop: 11608, Start Num: 30
Candidate Starts for Ichabod_15:
(12, 10895), (13, 10910), (Start: 30 @11096 has 713 MA's), (45, 11261), (60, 11369), (81, 11507), (87, 11567), (92, 11585),

Gene: Idleandcovert_14 Start: 10546, Stop: 11067, Start Num: 30
Candidate Starts for Idleandcovert_14:
(Start: 30 @10546 has 713 MA's), (47, 10720), (62, 10828), (68, 10867), (95, 11038),

Gene: IgnatiusPatJac_13 Start: 11070, Stop: 11582, Start Num: 30
Candidate Starts for IgnatiusPatJac_13:
(12, 10869), (13, 10884), (Start: 30 @11070 has 713 MA's), (60, 11343), (81, 11481), (87, 11541), (92, 11559),

Gene: Indra_18 Start: 11681, Stop: 12202, Start Num: 30
Candidate Starts for Indra_18:
(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (55, 11909), (56, 11921), (74, 12047),

Gene: Insomnia_15 Start: 12204, Stop: 12725, Start Num: 30
Candidate Starts for Insomnia_15:
(26, 12183), (Start: 30 @12204 has 713 MA's), (33, 12255), (41, 12318), (64, 12504),

Gene: Iracema64_14 Start: 10917, Stop: 11429, Start Num: 30
Candidate Starts for Iracema64_14:
(4, 10626), (11, 10716), (Start: 24 @10884 has 18 MA's), (Start: 30 @10917 has 713 MA's), (41, 11028), (79, 11316),

Gene: IronMan_17 Start: 13320, Stop: 13829, Start Num: 30
Candidate Starts for IronMan_17:
(Start: 30 @13320 has 713 MA's), (64, 13608), (68, 13635), (85, 13773),

Gene: Isca_14 Start: 10383, Stop: 10943, Start Num: 24
Candidate Starts for Isca_14:
(Start: 24 @10383 has 18 MA's), (Start: 30 @10419 has 713 MA's), (47, 10596), (62, 10704), (68, 10743),

Gene: Isiphiwo_18 Start: 11667, Stop: 12197, Start Num: 30
Candidate Starts for Isiphiwo_18:
(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Iwokeuplikedis_15 Start: 11360, Stop: 11884, Start Num: 30
Candidate Starts for Iwokeuplikedis_15:
(Start: 30 @11360 has 713 MA's), (66, 11675), (89, 11849), (91, 11858),

Gene: JC27_16 Start: 11696, Stop: 12208, Start Num: 30
Candidate Starts for JC27_16:
(12, 11495), (13, 11510), (Start: 30 @11696 has 713 MA's), (45, 11861), (60, 11969), (81, 12107), (87, 12167), (92, 12185),

Gene: JF2_14 Start: 10184, Stop: 10708, Start Num: 30
Candidate Starts for JF2_14:

(Start: 24 @10148 has 18 MA's), (Start: 30 @10184 has 713 MA's), (47, 10361), (62, 10469), (68, 10508),

Gene: JF4_14 Start: 10184, Stop: 10708, Start Num: 30

Candidate Starts for JF4_14:

(Start: 24 @10148 has 18 MA's), (Start: 30 @10184 has 713 MA's), (47, 10361), (62, 10469), (68, 10508),

Gene: JHC117_16 Start: 11001, Stop: 11504, Start Num: 30

Candidate Starts for JHC117_16:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: JSwag_17 Start: 10739, Stop: 11248, Start Num: 30

Candidate Starts for JSwag_17:

(Start: 30 @10739 has 713 MA's),

Gene: Jaan_18 Start: 13710, Stop: 14219, Start Num: 30

Candidate Starts for Jaan_18:

(Start: 30 @13710 has 713 MA's), (64, 13998), (68, 14025), (85, 14163),

Gene: Jabiru_12 Start: 10140, Stop: 10652, Start Num: 30

Candidate Starts for Jabiru_12:

(Start: 24 @10107 has 18 MA's), (Start: 30 @10140 has 713 MA's), (40, 10233), (62, 10428), (66, 10455), (76, 10524), (82, 10557), (90, 10623),

Gene: Jabith_15 Start: 12204, Stop: 12725, Start Num: 30

Candidate Starts for Jabith_15:

(26, 12183), (Start: 30 @12204 has 713 MA's), (33, 12255), (41, 12318), (64, 12504),

Gene: JackSparrow_15 Start: 11412, Stop: 11924, Start Num: 30

Candidate Starts for JackSparrow_15:

(12, 11211), (13, 11226), (Start: 30 @11412 has 713 MA's), (45, 11577), (60, 11685), (81, 11823), (87, 11883), (92, 11901),

Gene: Jasper_15 Start: 10907, Stop: 11419, Start Num: 30

Candidate Starts for Jasper_15:

(Start: 30 @10907 has 713 MA's), (45, 11072), (60, 11180), (81, 11318), (87, 11378), (92, 11396),

Gene: Jaykayelowell_14 Start: 10938, Stop: 11450, Start Num: 30

Candidate Starts for Jaykayelowell_14:

(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Jeeves_14 Start: 10699, Stop: 11211, Start Num: 30

Candidate Starts for Jeeves_14:

(Start: 30 @10699 has 713 MA's), (55, 10924), (77, 11080), (85, 11152),

Gene: Jeffabunny_18 Start: 11680, Stop: 12210, Start Num: 30

Candidate Starts for Jeffabunny_18:

(Start: 30 @11680 has 713 MA's), (42, 11824), (55, 11917), (56, 11929), (74, 12055),

Gene: JenCasNa_16 Start: 11001, Stop: 11504, Start Num: 30

Candidate Starts for JenCasNa_16:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: JeppNRM_17 Start: 11073, Stop: 11576, Start Num: 30

Candidate Starts for JeppNRM_17:

(Start: 24 @11037 has 18 MA's), (Start: 29 @11052 has 20 MA's), (Start: 30 @11073 has 713 MA's), (48, 11250), (66, 11382), (68, 11394),

Gene: Jerm_17 Start: 12028, Stop: 12555, Start Num: 30

Candidate Starts for Jerm_17:

(Start: 30 @12028 has 713 MA's), (64, 12328), (66, 12343), (85, 12496), (91, 12529),

Gene: Jerm2_15 Start: 11285, Stop: 11797, Start Num: 30

Candidate Starts for Jerm2_15:

(12, 11084), (13, 11099), (Start: 30 @11285 has 713 MA's), (45, 11450), (60, 11558), (81, 11696), (87, 11756), (92, 11774),

Gene: Jester_11 Start: 7203, Stop: 7688, Start Num: 32

Candidate Starts for Jester_11:

(Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: JetBlade_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for JetBlade_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: JewelBug_18 Start: 11678, Stop: 12208, Start Num: 30

Candidate Starts for JewelBug_18:

(Start: 30 @11678 has 713 MA's), (42, 11822), (55, 11915), (56, 11927), (74, 12053),

Gene: Jobu08_16 Start: 11051, Stop: 11575, Start Num: 29

Candidate Starts for Jobu08_16:

(Start: 24 @11036 has 18 MA's), (Start: 29 @11051 has 20 MA's), (Start: 30 @11072 has 713 MA's), (48, 11249), (66, 11381), (68, 11393),

Gene: JoongJeon_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for JoongJeon_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Jordennis_18 Start: 11667, Stop: 12197, Start Num: 30

Candidate Starts for Jordennis_18:

(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Jorgensen_14 Start: 10868, Stop: 11380, Start Num: 30

Candidate Starts for Jorgensen_14:

(Start: 30 @10868 has 713 MA's), (60, 11141), (81, 11279), (87, 11339), (92, 11357),

Gene: Joselito_15 Start: 12152, Stop: 12673, Start Num: 30

Candidate Starts for Joselito_15:

(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: JoshKayV_17 Start: 12035, Stop: 12559, Start Num: 30

Candidate Starts for JoshKayV_17:

(Start: 30 @12035 has 713 MA's), (57, 12296), (91, 12533),

Gene: Journey13_13 Start: 10712, Stop: 11236, Start Num: 30

Candidate Starts for Journey13_13:

(Start: 30 @10712 has 713 MA's), (35, 10778), (56, 10955), (74, 11081), (89, 11198),

Gene: Jovo_12 Start: 10372, Stop: 10881, Start Num: 30

Candidate Starts for Jovo_12:

(Start: 30 @10372 has 713 MA's), (40, 10462), (56, 10615), (62, 10657), (66, 10684), (70, 10705), (76, 10753),

Gene: Jsquared_14 Start: 10477, Stop: 11001, Start Num: 30

Candidate Starts for Jsquared_14:

(4, 10186), (5, 10198), (Start: 30 @10477 has 713 MA's), (33, 10528), (42, 10618), (46, 10648), (66, 10792), (70, 10813), (85, 10942), (91, 10975),

Gene: JuliaChild_16 Start: 11543, Stop: 12055, Start Num: 30

Candidate Starts for JuliaChild_16:

(12, 11342), (13, 11357), (Start: 30 @11543 has 713 MA's), (45, 11708), (60, 11816), (81, 11954), (87, 12014), (92, 12032),

Gene: KADY_17 Start: 11087, Stop: 11590, Start Num: 30

Candidate Starts for KADY_17:

(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's), (48, 11264), (66, 11396), (68, 11408),

Gene: KBG_15 Start: 11976, Stop: 12488, Start Num: 30

Candidate Starts for KBG_15:

(Start: 30 @11976 has 713 MA's), (60, 12249), (81, 12387), (87, 12447), (92, 12465),

Gene: KFPoly_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for KFPoly_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: KSSJEB_14 Start: 10881, Stop: 11393, Start Num: 30

Candidate Starts for KSSJEB_14:

(12, 10680), (13, 10695), (Start: 30 @10881 has 713 MA's), (45, 11046), (60, 11154), (81, 11292), (87, 11352), (92, 11370),

Gene: Kalb97_17 Start: 11073, Stop: 11576, Start Num: 30

Candidate Starts for Kalb97_17:

(Start: 24 @11037 has 18 MA's), (Start: 29 @11052 has 20 MA's), (Start: 30 @11073 has 713 MA's), (48, 11250), (66, 11382), (68, 11394),

Gene: Kalnoky_17 Start: 11075, Stop: 11578, Start Num: 30

Candidate Starts for Kalnoky_17:

(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: Kalpine_18 Start: 13392, Stop: 13916, Start Num: 30

Candidate Starts for Kalpine_18:

(27, 13371), (Start: 30 @13392 has 713 MA's), (35, 13461), (56, 13638), (85, 13857),

Gene: Kampy_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for Kamy_14:
(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Kanely_15 Start: 11652, Stop: 12164, Start Num: 30
Candidate Starts for Kanely_15:
(Start: 30 @11652 has 713 MA's), (60, 11925), (81, 12063), (87, 12123), (92, 12141),

Gene: Katalie136_14 Start: 10949, Stop: 11461, Start Num: 30
Candidate Starts for Katalie136_14:
(Start: 24 @10916 has 18 MA's), (Start: 30 @10949 has 713 MA's), (41, 11060), (54, 11171), (79, 11348),

Gene: KatherineG_17 Start: 10872, Stop: 11384, Start Num: 30
Candidate Starts for KatherineG_17:
(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: Kazan_18 Start: 11683, Stop: 12213, Start Num: 30
Candidate Starts for Kazan_18:
(Start: 30 @11683 has 713 MA's), (42, 11827), (55, 11920), (56, 11932), (74, 12058),

Gene: Kenmech_17 Start: 12156, Stop: 12668, Start Num: 30
Candidate Starts for Kenmech_17:
(Start: 30 @12156 has 713 MA's), (45, 12321), (60, 12429), (81, 12567), (87, 12627), (92, 12645),

Gene: Kerberos_18 Start: 11525, Stop: 12046, Start Num: 30
Candidate Starts for Kerberos_18:
(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: Keziacharles14_14 Start: 10434, Stop: 10949, Start Num: 30
Candidate Starts for Keziacharles14_14:
(Start: 30 @10434 has 713 MA's), (35, 10485), (56, 10668), (68, 10749), (77, 10812), (89, 10908), (91, 10917), (92, 10920),

Gene: Killigrew_12 Start: 10517, Stop: 11029, Start Num: 30
Candidate Starts for Killigrew_12:
(Start: 30 @10517 has 713 MA's), (60, 10790), (81, 10928), (87, 10988), (92, 11006),

Gene: Kimona_11 Start: 8311, Stop: 8856, Start Num: 24
Candidate Starts for Kimona_11:
(Start: 24 @8311 has 18 MA's), (Start: 30 @8344 has 713 MA's), (44, 8500), (47, 8521), (51, 8545), (59, 8617), (89, 8824),

Gene: KingCyrus_17 Start: 12018, Stop: 12530, Start Num: 30
Candidate Starts for KingCyrus_17:
(Start: 24 @11982 has 18 MA's), (28, 11997), (Start: 30 @12018 has 713 MA's), (64, 12306), (68, 12333), (70, 12342), (85, 12471), (91, 12504),

Gene: Kingmustik0402_14 Start: 10931, Stop: 11443, Start Num: 30
Candidate Starts for Kingmustik0402_14:
(Start: 30 @10931 has 713 MA's), (41, 11042), (79, 11330),

Gene: Kipper29_18 Start: 11677, Stop: 12207, Start Num: 30

Candidate Starts for Kipper29_18:

(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: KittenMittens_13 Start: 8814, Stop: 9335, Start Num: 30

Candidate Starts for KittenMittens_13:

(Start: 29 @8793 has 20 MA's), (Start: 30 @8814 has 713 MA's), (47, 9000),

Gene: Koduck_15 Start: 10789, Stop: 11310, Start Num: 30

Candidate Starts for Koduck_15:

(Start: 24 @10753 has 18 MA's), (Start: 29 @10768 has 20 MA's), (Start: 30 @10789 has 713 MA's), (35, 10852), (42, 10924), (47, 10963), (56, 11029), (64, 11083), (74, 11155),

Gene: Koko_18 Start: 11681, Stop: 12202, Start Num: 30

Candidate Starts for Koko_18:

(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (56, 11921), (74, 12047),

Gene: Koreni_13 Start: 10588, Stop: 11100, Start Num: 30

Candidate Starts for Koreni_13:

(Start: 30 @10588 has 713 MA's), (41, 10699), (79, 10987),

Gene: Kratark_14 Start: 10934, Stop: 11446, Start Num: 30

Candidate Starts for Kratark_14:

(Start: 30 @10934 has 713 MA's), (41, 11045), (79, 11333),

Gene: Kremtemulon_13 Start: 10987, Stop: 11499, Start Num: 30

Candidate Starts for Kremtemulon_13:

(Start: 30 @10987 has 713 MA's), (41, 11098), (79, 11386),

Gene: Krishelle_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Krishelle_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (77, 7572),

Gene: Kristoff_15 Start: 10882, Stop: 11403, Start Num: 30

Candidate Starts for Kristoff_15:

(Start: 29 @10861 has 20 MA's), (Start: 30 @10882 has 713 MA's), (37, 10969),

Gene: Kugel_15 Start: 11145, Stop: 11642, Start Num: 30

Candidate Starts for Kugel_15:

(Start: 30 @11145 has 713 MA's), (55, 11361), (56, 11373), (70, 11463), (83, 11550), (86, 11592), (89, 11610),

Gene: KyMonks1A_16 Start: 11387, Stop: 11899, Start Num: 30

Candidate Starts for KyMonks1A_16:

(13, 11201), (Start: 30 @11387 has 713 MA's), (60, 11660), (81, 11798), (87, 11858), (92, 11876),

Gene: Kyee_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for Kyee_14:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Kykar_12 Start: 10642, Stop: 11139, Start Num: 30

Candidate Starts for Kykar_12:

(Start: 30 @10642 has 713 MA's), (55, 10858), (56, 10870), (70, 10960), (83, 11047), (86, 11089), (89, 11107),

Gene: L5_16 Start: 10797, Stop: 11318, Start Num: 30

Candidate Starts for L5_16:

(Start: 24 @10761 has 18 MA's), (Start: 29 @10776 has 20 MA's), (Start: 30 @10797 has 713 MA's), (35, 10860), (42, 10932), (47, 10971), (56, 11037), (64, 11091), (74, 11163),

Gene: LBerry_16 Start: 11003, Stop: 11506, Start Num: 30

Candidate Starts for LBerry_16:

(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: LHTSCC_14 Start: 10917, Stop: 11429, Start Num: 30

Candidate Starts for LHTSCC_14:

(Start: 24 @10884 has 18 MA's), (Start: 30 @10917 has 713 MA's), (41, 11028), (70, 11250), (79, 11316),

Gene: LadyBird_15 Start: 11551, Stop: 12099, Start Num: 24

Candidate Starts for LadyBird_15:

(Start: 24 @11551 has 18 MA's), (26, 11566), (Start: 30 @11587 has 713 MA's), (38, 11665), (64, 11878), (77, 11968), (85, 12040),

Gene: Lambert1_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Lambert1_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Lamina13_14 Start: 10663, Stop: 11175, Start Num: 30

Candidate Starts for Lamina13_14:

(Start: 30 @10663 has 713 MA's), (60, 10936), (81, 11074), (87, 11134), (92, 11152),

Gene: Landor_16 Start: 13362, Stop: 13871, Start Num: 30

Candidate Starts for Landor_16:

(Start: 30 @13362 has 713 MA's), (47, 13530), (64, 13650), (68, 13677), (85, 13815),

Gene: LappelDuVide_13 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for LappelDuVide_13:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Larenn_16 Start: 11884, Stop: 12414, Start Num: 30

Candidate Starts for Larenn_16:

(15, 11731), (Start: 24 @11848 has 18 MA's), (26, 11863), (Start: 30 @11884 has 713 MA's), (56, 12130), (66, 12199), (70, 12220), (85, 12355), (91, 12388), (93, 12397), (95, 12400),

Gene: LarryKay_16 Start: 11089, Stop: 11592, Start Num: 30

Candidate Starts for LarryKay_16:

(Start: 24 @11053 has 18 MA's), (Start: 29 @11068 has 20 MA's), (Start: 30 @11089 has 713 MA's), (48, 11266), (66, 11398), (68, 11410),

Gene: LastResort_17 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for LastResort_17:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Lemur_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Lemur_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (64, 11236), (79, 11338),

Gene: LeoAvram_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for LeoAvram_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Leogania_17 Start: 13755, Stop: 14273, Start Num: 30

Candidate Starts for Leogania_17:

(Start: 24 @13719 has 18 MA's), (28, 13734), (Start: 30 @13755 has 713 MA's), (64, 14052), (68, 14079), (85, 14214),

Gene: Lesedi_13 Start: 10821, Stop: 11333, Start Num: 30

Candidate Starts for Lesedi_13:

(Start: 30 @10821 has 713 MA's), (45, 10986), (60, 11094), (81, 11232), (87, 11292), (92, 11310),

Gene: Lev2_12 Start: 10081, Stop: 10593, Start Num: 30

Candidate Starts for Lev2_12:

(17, 9982), (Start: 24 @10048 has 18 MA's), (Start: 30 @10081 has 713 MA's), (40, 10174), (62, 10369), (66, 10396), (76, 10465), (82, 10498), (90, 10564),

Gene: Leviathan_17 Start: 12060, Stop: 12587, Start Num: 30

Candidate Starts for Leviathan_17:

(Start: 30 @12060 has 713 MA's), (64, 12360), (66, 12375), (85, 12528), (91, 12561),

Gene: Licorice_16 Start: 11679, Stop: 12191, Start Num: 30

Candidate Starts for Licorice_16:

(Start: 30 @11679 has 713 MA's), (45, 11844), (60, 11952), (81, 12090), (87, 12150), (92, 12168),

Gene: LilBib_15 Start: 11622, Stop: 12134, Start Num: 30

Candidate Starts for LilBib_15:

(12, 11421), (13, 11436), (Start: 30 @11622 has 713 MA's), (60, 11895), (81, 12033), (87, 12093), (92, 12111),

Gene: LilTurb_17 Start: 12087, Stop: 12614, Start Num: 30

Candidate Starts for LilTurb_17:

(Start: 30 @12087 has 713 MA's), (64, 12387), (66, 12402), (85, 12555), (91, 12588),

Gene: Lilbunny_17 Start: 11662, Stop: 12183, Start Num: 30

Candidate Starts for Lilbunny_17:

(16, 11566), (Start: 30 @11662 has 713 MA's), (33, 11710), (42, 11797), (56, 11902), (74, 12028),

Gene: Lilith_16 Start: 10996, Stop: 11499, Start Num: 30

Candidate Starts for Lilith_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (48, 11173), (66, 11305), (68, 11317),

Gene: Lillie_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Lillie_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: LittleB_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for LittleB_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: LittleCherry_12 Start: 10264, Stop: 10773, Start Num: 30

Candidate Starts for LittleCherry_12:

(Start: 30 @10264 has 713 MA's), (40, 10354), (56, 10507), (62, 10549), (66, 10576), (70, 10597), (76, 10645),

Gene: LittleGuy_14 Start: 10885, Stop: 11397, Start Num: 30

Candidate Starts for LittleGuy_14:

(Start: 30 @10885 has 713 MA's), (41, 10996), (79, 11284),

Gene: LochMonster_14 Start: 10914, Stop: 11426, Start Num: 30

Candidate Starts for LochMonster_14:

(Start: 30 @10914 has 713 MA's), (41, 11025), (79, 11313),

Gene: Lockley_14 Start: 11001, Stop: 11513, Start Num: 30

Candidate Starts for Lockley_14:

(Start: 30 @11001 has 713 MA's), (60, 11274), (81, 11412), (87, 11472), (92, 11490),

Gene: Lokk_18 Start: 13310, Stop: 13819, Start Num: 30

Candidate Starts for Lokk_18:

(Start: 30 @13310 has 713 MA's), (38, 13391), (42, 13445), (64, 13604), (66, 13619), (85, 13763),

Gene: LoneWolf_16 Start: 12107, Stop: 12640, Start Num: 30

Candidate Starts for LoneWolf_16:

(2, 11756), (3, 11783), (Start: 30 @12107 has 713 MA's), (33, 12155), (44, 12269), (64, 12410), (66, 12425), (68, 12437), (91, 12605), (92, 12608),

Gene: Looper_18 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for Looper_18:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Lopton_15 Start: 12429, Stop: 12941, Start Num: 30

Candidate Starts for Lopton_15:

(12, 12228), (13, 12243), (Start: 30 @12429 has 713 MA's), (45, 12594), (60, 12702), (81, 12840), (87, 12900), (92, 12918),

Gene: Lorenzo_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Lorenzo_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Loser_18 Start: 13393, Stop: 13905, Start Num: 30

Candidate Starts for Loser_18:

(Start: 24 @13354 has 18 MA's), (Start: 30 @13393 has 713 MA's), (35, 13453), (70, 13720), (85, 13846),

Gene: Louie6_16 Start: 11069, Stop: 11593, Start Num: 29

Candidate Starts for Louie6_16:

(Start: 24 @11054 has 18 MA's), (Start: 29 @11069 has 20 MA's), (Start: 30 @11090 has 713 MA's), (48, 11267), (66, 11399), (68, 11411),

Gene: Luchador_15 Start: 11684, Stop: 12196, Start Num: 30

Candidate Starts for Luchador_15:

(Start: 30 @11684 has 713 MA's), (55, 11909), (85, 12137),

Gene: Lucivia_15 Start: 12201, Stop: 12722, Start Num: 30

Candidate Starts for Lucivia_15:

(26, 12180), (Start: 30 @12201 has 713 MA's), (33, 12252), (41, 12315), (64, 12501),

Gene: Lucyedi_16 Start: 11784, Stop: 12311, Start Num: 30

Candidate Starts for Lucyedi_16:

(9, 11562), (Start: 30 @11784 has 713 MA's), (68, 12105), (72, 12141),

Gene: LugYA_18 Start: 10980, Stop: 11504, Start Num: 29

Candidate Starts for LugYA_18:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Lunsford_15 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Lunsford_15:

(Start: 30 @10939 has 713 MA's), (41, 11050), (64, 11236), (79, 11338),

Gene: MA5_14 Start: 10146, Stop: 10670, Start Num: 30

Candidate Starts for MA5_14:

(Start: 30 @10146 has 713 MA's), (47, 10323), (62, 10431), (68, 10470),

Gene: MK4_14 Start: 10418, Stop: 10942, Start Num: 30

Candidate Starts for MK4_14:

(Start: 24 @10382 has 18 MA's), (Start: 30 @10418 has 713 MA's), (47, 10595), (62, 10703), (68, 10742),

Gene: MPlant7149_13 Start: 10639, Stop: 11151, Start Num: 30

Candidate Starts for MPlant7149_13:

(12, 10438), (13, 10453), (Start: 30 @10639 has 713 MA's), (45, 10804), (60, 10912), (81, 11050), (87, 11110), (92, 11128),

Gene: MaCh_15 Start: 12149, Stop: 12670, Start Num: 30

Candidate Starts for MaCh_15:

(26, 12128), (Start: 30 @12149 has 713 MA's), (33, 12200), (41, 12263), (64, 12449),

Gene: Mabel_15 Start: 12216, Stop: 12737, Start Num: 30

Candidate Starts for Mabel_15:

(26, 12195), (Start: 30 @12216 has 713 MA's), (33, 12267), (41, 12330), (64, 12516),

Gene: MadMarie_16 Start: 11005, Stop: 11508, Start Num: 30

Candidate Starts for MadMarie_16:

(Start: 24 @10969 has 18 MA's), (Start: 29 @10984 has 20 MA's), (Start: 30 @11005 has 713 MA's), (48, 11182), (66, 11314), (68, 11326),

Gene: Magnar_14 Start: 10786, Stop: 11298, Start Num: 30

Candidate Starts for Magnar_14:

(Start: 30 @10786 has 713 MA's), (45, 10951), (60, 11059), (81, 11197), (87, 11257), (92, 11275),

Gene: Magnito_13 Start: 10538, Stop: 11050, Start Num: 30

Candidate Starts for Magnito_13:

(12, 10337), (13, 10352), (Start: 30 @10538 has 713 MA's), (45, 10703), (60, 10811), (81, 10949), (87, 11009), (92, 11027),

Gene: Mainiac_16 Start: 10960, Stop: 11499, Start Num: 24

Candidate Starts for Mainiac_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (48, 11173), (66, 11305), (68, 11317),

Gene: Makemake_14 Start: 12270, Stop: 12782, Start Num: 30

Candidate Starts for Makemake_14:

(Start: 30 @12270 has 713 MA's), (45, 12435), (60, 12543), (81, 12681), (87, 12741), (92, 12759),

Gene: Malec_16 Start: 11889, Stop: 12419, Start Num: 30

Candidate Starts for Malec_16:

(15, 11736), (Start: 24 @11853 has 18 MA's), (26, 11868), (Start: 30 @11889 has 713 MA's), (56, 12135), (66, 12204), (70, 12225), (85, 12360), (91, 12393), (93, 12402), (95, 12405),

Gene: Malinsilva_18 Start: 10959, Stop: 11498, Start Num: 24

Candidate Starts for Malinsilva_18:

(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: Maminiaina_16 Start: 12031, Stop: 12564, Start Num: 30

Candidate Starts for Maminiaina_16:

(Start: 30 @12031 has 713 MA's), (33, 12079), (44, 12193), (64, 12334), (66, 12349), (68, 12361), (91, 12529), (92, 12532),

Gene: Manatee_15 Start: 11070, Stop: 11582, Start Num: 30

Candidate Starts for Manatee_15:

(Start: 30 @11070 has 713 MA's), (60, 11343), (81, 11481), (87, 11541), (92, 11559),

Gene: Manu_17 Start: 11075, Stop: 11578, Start Num: 30

Candidate Starts for Manu_17:

(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: MarQuardt_16 Start: 10983, Stop: 11507, Start Num: 29

Candidate Starts for MarQuardt_16:

(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's), (48, 11181), (66, 11313), (68, 11325),

Gene: Marcell_14 Start: 10998, Stop: 11510, Start Num: 30

Candidate Starts for Marcell_14:

(12, 10797), (13, 10812), (Start: 30 @10998 has 713 MA's), (45, 11163), (60, 11271), (81, 11409), (87, 11469), (92, 11487),

Gene: Marchy_12 Start: 10625, Stop: 11137, Start Num: 30

Candidate Starts for Marchy_12:

(Start: 30 @10625 has 713 MA's), (60, 10898), (81, 11036), (87, 11096), (92, 11114),

Gene: Marge_15 Start: 11521, Stop: 12033, Start Num: 30

Candidate Starts for Marge_15:

(12, 11320), (13, 11335), (Start: 30 @11521 has 713 MA's), (45, 11686), (60, 11794), (81, 11932), (87, 11992), (92, 12010),

Gene: Margo_15 Start: 11118, Stop: 11627, Start Num: 30
Candidate Starts for Margo_15:
(16, 11013), (Start: 30 @11118 has 713 MA's), (62, 11400), (68, 11439), (90, 11598),

Gene: Marie_16 Start: 10980, Stop: 11504, Start Num: 29
Candidate Starts for Marie_16:
(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's),
(48, 11178), (66, 11310), (68, 11322),

Gene: Marius_17 Start: 11075, Stop: 11578, Start Num: 30
Candidate Starts for Marius_17:
(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's),
(48, 11252), (66, 11384), (68, 11396),

Gene: Maroc7_13 Start: 10811, Stop: 11323, Start Num: 30
Candidate Starts for Maroc7_13:
(12, 10610), (13, 10625), (Start: 30 @10811 has 713 MA's), (60, 11084), (81, 11222), (87, 11282), (92,
11300),

Gene: Marsha_14 Start: 11254, Stop: 11766, Start Num: 30
Candidate Starts for Marsha_14:
(Start: 30 @11254 has 713 MA's), (45, 11419), (60, 11527), (81, 11665), (87, 11725), (92, 11743),

Gene: MaryBeth_14 Start: 11233, Stop: 11745, Start Num: 30
Candidate Starts for MaryBeth_14:
(Start: 30 @11233 has 713 MA's), (60, 11506), (81, 11644), (87, 11704), (92, 11722),

Gene: MarysWell_11 Start: 10231, Stop: 10740, Start Num: 30
Candidate Starts for MarysWell_11:
(Start: 30 @10231 has 713 MA's), (40, 10321), (56, 10474), (62, 10516), (66, 10543), (70, 10564), (76,
10612),

Gene: Maverick_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Maverick_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Maxo_14 Start: 10940, Stop: 11452, Start Num: 30
Candidate Starts for Maxo_14:
(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Mazhar510_14 Start: 10940, Stop: 11452, Start Num: 30
Candidate Starts for Mazhar510_14:
(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: McFly_18 Start: 11677, Stop: 12207, Start Num: 30
Candidate Starts for McFly_18:
(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: McGuire_15 Start: 11116, Stop: 11628, Start Num: 30
Candidate Starts for McGuire_15:
(Start: 30 @11116 has 713 MA's), (60, 11389), (81, 11527), (87, 11587), (92, 11605),

Gene: Medusa_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Medusa_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: MeeZee_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for MeeZee_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Melvin_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Melvin_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: MetalQZJ_14 Start: 11233, Stop: 11745, Start Num: 30
Candidate Starts for MetalQZJ_14:
(Start: 30 @11233 has 713 MA's), (60, 11506), (81, 11644), (87, 11704), (92, 11722),

Gene: Methuselah_16 Start: 11065, Stop: 11589, Start Num: 29
Candidate Starts for Methuselah_16:
(Start: 24 @11050 has 18 MA's), (Start: 29 @11065 has 20 MA's), (Start: 30 @11086 has 713 MA's),
(48, 11263), (66, 11395), (68, 11407),

Gene: Micasa_11 Start: 10232, Stop: 10741, Start Num: 30
Candidate Starts for Micasa_11:
(Start: 30 @10232 has 713 MA's), (40, 10322), (56, 10475), (62, 10517), (66, 10544), (70, 10565), (76,
10613),

Gene: Michley_14 Start: 10980, Stop: 11492, Start Num: 30
Candidate Starts for Michley_14:
(Start: 30 @10980 has 713 MA's), (45, 11145), (60, 11253), (81, 11391), (87, 11451), (92, 11469),

Gene: Microwolf_16 Start: 11004, Stop: 11507, Start Num: 30
Candidate Starts for Microwolf_16:
(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's),
(48, 11181), (66, 11313), (68, 11325),

Gene: MiculUcigas_15 Start: 11659, Stop: 12183, Start Num: 30
Candidate Starts for MiculUcigas_15:
(15, 11506), (Start: 24 @11623 has 18 MA's), (26, 11638), (Start: 30 @11659 has 713 MA's), (47,
11839), (64, 11959), (68, 11986), (85, 12124), (91, 12157), (93, 12166), (95, 12169),

Gene: Midas2_12 Start: 10231, Stop: 10740, Start Num: 30
Candidate Starts for Midas2_12:
(Start: 30 @10231 has 713 MA's), (40, 10321), (56, 10474), (62, 10516), (66, 10543), (70, 10564), (76,
10612),

Gene: Miko_18 Start: 13279, Stop: 13788, Start Num: 30
Candidate Starts for Miko_18:
(Start: 30 @13279 has 713 MA's), (38, 13360), (42, 13414), (66, 13588),

Gene: Milcery_12 Start: 10268, Stop: 10777, Start Num: 30
Candidate Starts for Milcery_12:
(Start: 30 @10268 has 713 MA's), (40, 10358), (62, 10553), (66, 10580), (70, 10601), (76, 10649),

Gene: Millski_14 Start: 10942, Stop: 11454, Start Num: 30

Candidate Starts for Millski_14:
(Start: 30 @10942 has 713 MA's), (41, 11053), (79, 11341),

Gene: MinecraftSteve_18 Start: 10872, Stop: 11384, Start Num: 30
Candidate Starts for MinecraftSteve_18:
(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: Miramae_14 Start: 10897, Stop: 11409, Start Num: 30
Candidate Starts for Miramae_14:
(Start: 24 @10864 has 18 MA's), (Start: 30 @10897 has 713 MA's), (41, 11008), (70, 11230), (79, 11296),

Gene: Misomonster_18 Start: 11065, Stop: 11589, Start Num: 29
Candidate Starts for Misomonster_18:
(Start: 24 @11050 has 18 MA's), (Start: 29 @11065 has 20 MA's), (Start: 30 @11086 has 713 MA's), (48, 11263), (66, 11395), (68, 11407),

Gene: MissWhite_15 Start: 10643, Stop: 11170, Start Num: 30
Candidate Starts for MissWhite_15:
(Start: 30 @10643 has 713 MA's), (35, 10712), (56, 10889), (74, 11015),

Gene: Molly_15 Start: 10841, Stop: 11353, Start Num: 30
Candidate Starts for Molly_15:
(12, 10640), (13, 10655), (Start: 30 @10841 has 713 MA's), (45, 11006), (60, 11114), (81, 11252), (87, 11312), (92, 11330),

Gene: Monet_16 Start: 12038, Stop: 12550, Start Num: 30
Candidate Starts for Monet_16:
(12, 11837), (13, 11852), (Start: 30 @12038 has 713 MA's), (45, 12203), (60, 12311), (81, 12449), (87, 12509), (92, 12527),

Gene: MoneyMay_16 Start: 10965, Stop: 11504, Start Num: 24
Candidate Starts for MoneyMay_16:
(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Moose_13 Start: 11073, Stop: 11585, Start Num: 30
Candidate Starts for Moose_13:
(Start: 30 @11073 has 713 MA's), (60, 11346), (81, 11484), (87, 11544), (92, 11562),

Gene: Morpher26_14 Start: 10949, Stop: 11461, Start Num: 30
Candidate Starts for Morpher26_14:
(Start: 24 @10916 has 18 MA's), (Start: 30 @10949 has 713 MA's), (41, 11060), (54, 11171), (79, 11348),

Gene: Morrow_14 Start: 10942, Stop: 11454, Start Num: 30
Candidate Starts for Morrow_14:
(Start: 30 @10942 has 713 MA's), (41, 11053), (79, 11341),

Gene: MrGordo_14 Start: 10793, Stop: 11305, Start Num: 30
Candidate Starts for MrGordo_14:
(Start: 30 @10793 has 713 MA's), (60, 11066), (81, 11204), (87, 11264), (92, 11282),

Gene: Mryolo_13 Start: 10823, Stop: 11335, Start Num: 30
Candidate Starts for Mryolo_13:
(Start: 30 @10823 has 713 MA's), (45, 10988), (60, 11096), (81, 11234), (87, 11294), (92, 11312),

Gene: MuchMore_18 Start: 10995, Stop: 11498, Start Num: 30
Candidate Starts for MuchMore_18:
(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's),
(48, 11172), (66, 11304), (68, 11316),

Gene: Mulciber_15 Start: 12152, Stop: 12673, Start Num: 30
Candidate Starts for Mulciber_15:
(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Mule_14 Start: 11108, Stop: 11620, Start Num: 30
Candidate Starts for Mule_14:
(Start: 30 @11108 has 713 MA's), (60, 11381), (81, 11519), (87, 11579), (92, 11597),

Gene: Munch_15 Start: 12152, Stop: 12673, Start Num: 30
Candidate Starts for Munch_15:
(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Mundrea_14 Start: 10902, Stop: 11414, Start Num: 30
Candidate Starts for Mundrea_14:
(Start: 24 @10869 has 18 MA's), (Start: 30 @10902 has 713 MA's), (41, 11013), (79, 11301),

Gene: Museum_16 Start: 11127, Stop: 11639, Start Num: 30
Candidate Starts for Museum_16:
(12, 10926), (13, 10941), (Start: 30 @11127 has 713 MA's), (45, 11292), (60, 11400), (81, 11538), (87,
11598), (92, 11616),

Gene: MyraDee_12 Start: 9070, Stop: 9564, Start Num: 30
Candidate Starts for MyraDee_12:
(4, 8770), (5, 8782), (Start: 30 @9070 has 713 MA's), (66, 9367), (90, 9535),

Gene: Myxus_16 Start: 12267, Stop: 12800, Start Num: 30
Candidate Starts for Myxus_16:
(Start: 30 @12267 has 713 MA's), (33, 12315), (44, 12429), (64, 12570), (66, 12585), (68, 12597), (91,
12765), (92, 12768),

Gene: NEHalo_14 Start: 10635, Stop: 11147, Start Num: 30
Candidate Starts for NEHalo_14:
(Start: 30 @10635 has 713 MA's), (60, 10908), (81, 11046), (87, 11106), (92, 11124),

Gene: NaSiaTalie_15 Start: 11656, Stop: 12180, Start Num: 30
Candidate Starts for NaSiaTalie_15:
(15, 11503), (Start: 24 @11620 has 18 MA's), (26, 11635), (Start: 30 @11656 has 713 MA's), (47,
11836), (64, 11956), (68, 11983), (85, 12121), (91, 12154), (93, 12163), (95, 12166),

Gene: Naca_12 Start: 10140, Stop: 10685, Start Num: 24
Candidate Starts for Naca_12:
(Start: 24 @10140 has 18 MA's), (Start: 30 @10173 has 713 MA's), (40, 10266), (62, 10461), (66,
10488), (76, 10557), (82, 10590), (90, 10656),

Gene: Naiad_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for Naiad_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (77, 7572), (93, 7686),

Gene: Naira_15 Start: 12374, Stop: 12886, Start Num: 30
Candidate Starts for Naira_15:
(13, 12188), (Start: 30 @12374 has 713 MA's), (45, 12539), (60, 12647), (81, 12785), (87, 12845), (92, 12863),

Gene: Naji_18 Start: 11525, Stop: 12046, Start Num: 30
Candidate Starts for Naji_18:
(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: Nancinator_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for Nancinator_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Natosaleda_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for Natosaleda_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: NearlyHeadless_12 Start: 9845, Stop: 10366, Start Num: 29
Candidate Starts for NearlyHeadless_12:
(Start: 29 @9845 has 20 MA's), (51, 10055), (57, 10112), (61, 10136), (70, 10190), (75, 10235), (84, 10295),

Gene: Nebs_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Nebs_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Nebulosus_17 Start: 10750, Stop: 11262, Start Num: 30
Candidate Starts for Nebulosus_17:
(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Nedarya_16 Start: 11336, Stop: 11842, Start Num: 30
Candidate Starts for Nedarya_16:
(Start: 30 @11336 has 713 MA's),

Gene: Neeharika16_18 Start: 11667, Stop: 12197, Start Num: 30
Candidate Starts for Neeharika16_18:
(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Nemo27_14 Start: 10938, Stop: 11450, Start Num: 30
Candidate Starts for Nemo27_14:
(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Nerujay_15 Start: 11530, Stop: 12042, Start Num: 30
Candidate Starts for Nerujay_15:
(12, 11329), (13, 11344), (Start: 30 @11530 has 713 MA's), (60, 11803), (81, 11941), (87, 12001), (92, 12019),

Gene: Newrala_18 Start: 11667, Stop: 12197, Start Num: 30

Candidate Starts for Newrala_18:

(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Nhonho_14 Start: 10979, Stop: 11491, Start Num: 30

Candidate Starts for Nhonho_14:

(12, 10778), (13, 10793), (Start: 30 @10979 has 713 MA's), (45, 11144), (60, 11252), (81, 11390), (87, 11450), (92, 11468),

Gene: NicoleTera_19 Start: 13368, Stop: 13889, Start Num: 30

Candidate Starts for NicoleTera_19:

(Start: 30 @13368 has 713 MA's), (34, 13422), (64, 13665), (68, 13692), (85, 13830),

Gene: Niza_16 Start: 12146, Stop: 12658, Start Num: 30

Candidate Starts for Niza_16:

(Start: 30 @12146 has 713 MA's), (60, 12419), (81, 12557), (87, 12617), (92, 12635),

Gene: Noella_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Noella_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Noelle_14 Start: 11003, Stop: 11515, Start Num: 30

Candidate Starts for Noelle_14:

(4, 10712), (7, 10763), (10, 10799), (11, 10802), (Start: 24 @10970 has 18 MA's), (Start: 30 @11003 has 713 MA's), (79, 11402),

Gene: Norbert_14 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Norbert_14:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: NorthStar_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for NorthStar_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Norz_16 Start: 11782, Stop: 12294, Start Num: 30

Candidate Starts for Norz_16:

(14, 11608), (Start: 30 @11782 has 713 MA's), (60, 12055), (81, 12193), (87, 12253), (92, 12271),

Gene: NotAPhaseMom_14 Start: 10943, Stop: 11455, Start Num: 30

Candidate Starts for NotAPhaseMom_14:

(Start: 30 @10943 has 713 MA's), (41, 11054), (79, 11342),

Gene: NothingSpecial_17 Start: 13625, Stop: 14149, Start Num: 30

Candidate Starts for NothingSpecial_17:

(11, 13427), (Start: 24 @13589 has 18 MA's), (28, 13604), (Start: 30 @13625 has 713 MA's), (35, 13691), (38, 13712), (68, 13952), (85, 14090), (91, 14123),

Gene: Nyxis_14 Start: 10885, Stop: 11397, Start Num: 30

Candidate Starts for Nyxis_14:

(Start: 30 @10885 has 713 MA's), (41, 10996), (79, 11284),

Gene: OKCentral2016_14 Start: 10403, Stop: 10924, Start Num: 30

Candidate Starts for OKCentral2016_14:

(Start: 29 @10382 has 20 MA's), (Start: 30 @10403 has 713 MA's), (80, 10817),

Gene: OKaNui_14 Start: 10705, Stop: 11217, Start Num: 30

Candidate Starts for OKaNui_14:

(4, 10414), (11, 10504), (Start: 24 @10672 has 18 MA's), (Start: 30 @10705 has 713 MA's), (41, 10816), (64, 11002), (79, 11104),

Gene: Obama12_14 Start: 10919, Stop: 11431, Start Num: 30

Candidate Starts for Obama12_14:

(Start: 24 @10886 has 18 MA's), (Start: 30 @10919 has 713 MA's), (41, 11030), (70, 11252), (79, 11318),

Gene: Odin_14 Start: 10423, Stop: 10947, Start Num: 30

Candidate Starts for Odin_14:

(Start: 30 @10423 has 713 MA's), (35, 10492), (42, 10564), (46, 10594), (66, 10738), (70, 10759), (85, 10885), (91, 10918), (93, 10927),

Gene: Ohfah_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Ohfah_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Ohno789_14 Start: 10925, Stop: 11437, Start Num: 30

Candidate Starts for Ohno789_14:

(Start: 30 @10925 has 713 MA's), (45, 11090), (60, 11198), (81, 11336), (87, 11396), (92, 11414),

Gene: OlanP_16 Start: 11255, Stop: 11758, Start Num: 30

Candidate Starts for OlanP_16:

(Start: 24 @11219 has 18 MA's), (Start: 29 @11234 has 20 MA's), (Start: 30 @11255 has 713 MA's), (48, 11432), (66, 11564), (68, 11576),

Gene: Ollie_16 Start: 10874, Stop: 11377, Start Num: 30

Candidate Starts for Ollie_16:

(Start: 24 @10838 has 18 MA's), (Start: 29 @10853 has 20 MA's), (Start: 30 @10874 has 713 MA's), (48, 11051), (66, 11183), (68, 11195),

Gene: Oofda_18 Start: 10721, Stop: 11233, Start Num: 30

Candidate Starts for Oofda_18:

(Start: 30 @10721 has 713 MA's), (50, 10916),

Gene: Oogway_13 Start: 11054, Stop: 11566, Start Num: 30

Candidate Starts for Oogway_13:

(Start: 30 @11054 has 713 MA's), (60, 11327), (81, 11465), (87, 11525), (92, 11543),

Gene: Orange_15 Start: 12152, Stop: 12673, Start Num: 30

Candidate Starts for Orange_15:

(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: P28Green_16 Start: 11002, Stop: 11505, Start Num: 30

Candidate Starts for P28Green_16:

(Start: 24 @10966 has 18 MA's), (Start: 29 @10981 has 20 MA's), (Start: 30 @11002 has 713 MA's), (48, 11179), (66, 11311), (68, 11323),

Gene: PGHhamlin_18 Start: 10995, Stop: 11498, Start Num: 30

Candidate Starts for PGHhamlin_18:

(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: PP_24 Start: 16745, Stop: 17263, Start Num: 30

Candidate Starts for PP_24:

(Start: 30 @16745 has 713 MA's), (47, 16928), (70, 17084), (71, 17108), (88, 17225), (89, 17228),

Gene: PSullivan_16 Start: 11543, Stop: 12055, Start Num: 30

Candidate Starts for PSullivan_16:

(12, 11342), (13, 11357), (Start: 30 @11543 has 713 MA's), (60, 11816), (81, 11954), (87, 12014), (92, 12032),

Gene: PacerPaul_14 Start: 11310, Stop: 11822, Start Num: 30

Candidate Starts for PacerPaul_14:

(Start: 30 @11310 has 713 MA's), (60, 11583), (81, 11721), (87, 11781), (92, 11799),

Gene: PackMan_16 Start: 12267, Stop: 12800, Start Num: 30

Candidate Starts for PackMan_16:

(Start: 30 @12267 has 713 MA's), (33, 12315), (44, 12429), (64, 12570), (66, 12585), (68, 12597), (91, 12765), (92, 12768),

Gene: PainterBoy_16 Start: 11784, Stop: 12311, Start Num: 30

Candidate Starts for PainterBoy_16:

(9, 11562), (Start: 30 @11784 has 713 MA's), (68, 12105), (72, 12141),

Gene: Palestino_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Palestino_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Panamaxus_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Panamaxus_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Papez_16 Start: 12506, Stop: 13018, Start Num: 30

Candidate Starts for Papez_16:

(12, 12305), (13, 12320), (Start: 30 @12506 has 713 MA's), (45, 12671), (60, 12779), (81, 12917), (87, 12977), (92, 12995),

Gene: Paphu_13 Start: 10499, Stop: 11011, Start Num: 30

Candidate Starts for Paphu_13:

(Start: 30 @10499 has 713 MA's), (60, 10772), (81, 10910), (87, 10970), (92, 10988),

Gene: Paraselene_13 Start: 10812, Stop: 11324, Start Num: 30

Candidate Starts for Paraselene_13:

(Start: 30 @10812 has 713 MA's), (45, 10977), (60, 11085), (81, 11223), (87, 11283), (92, 11301),

Gene: Pari_15 Start: 11278, Stop: 11790, Start Num: 30

Candidate Starts for Pari_15:

(Start: 30 @11278 has 713 MA's), (45, 11443), (60, 11551), (81, 11689), (87, 11749), (92, 11767),

Gene: Parliament_13 Start: 10881, Stop: 11393, Start Num: 30

Candidate Starts for Parliament_13:

(Start: 30 @10881 has 713 MA's), (45, 11046), (60, 11154), (81, 11292), (87, 11352), (92, 11370),

Gene: Partridge_11 Start: 7262, Stop: 7747, Start Num: 32
Candidate Starts for Partridge_11:
(18, 7100), (Start: 32 @7262 has 36 MA's), (58, 7493), (69, 7559), (77, 7616),

Gene: PascalRango_13 Start: 10739, Stop: 11251, Start Num: 30
Candidate Starts for PascalRango_13:
(Start: 30 @10739 has 713 MA's), (60, 11012), (81, 11150), (87, 11210), (92, 11228),

Gene: PattyP_16 Start: 11336, Stop: 11848, Start Num: 30
Candidate Starts for PattyP_16:
(12, 11135), (13, 11150), (Start: 30 @11336 has 713 MA's), (45, 11501), (60, 11609), (81, 11747), (87, 11807), (92, 11825),

Gene: Pawn_17 Start: 11075, Stop: 11578, Start Num: 30
Candidate Starts for Pawn_17:
(Start: 24 @11039 has 18 MA's), (Start: 29 @11054 has 20 MA's), (Start: 30 @11075 has 713 MA's), (48, 11252), (66, 11384), (68, 11396),

Gene: Payneful_13 Start: 10625, Stop: 11137, Start Num: 30
Candidate Starts for Payneful_13:
(Start: 30 @10625 has 713 MA's), (60, 10898), (81, 11036), (87, 11096), (92, 11114),

Gene: PeaceMeal1_13 Start: 8815, Stop: 9336, Start Num: 30
Candidate Starts for PeaceMeal1_13:
(Start: 29 @8794 has 20 MA's), (Start: 30 @8815 has 713 MA's), (47, 9001),

Gene: Peaches_14 Start: 10941, Stop: 11453, Start Num: 30
Candidate Starts for Peaches_14:
(Start: 24 @10908 has 18 MA's), (Start: 30 @10941 has 713 MA's), (41, 11052), (64, 11238), (79, 11340),

Gene: Pelly_15 Start: 11571, Stop: 12083, Start Num: 30
Candidate Starts for Pelly_15:
(Start: 30 @11571 has 713 MA's), (60, 11844), (81, 11982), (87, 12042), (92, 12060),

Gene: Pembroke_16 Start: 11004, Stop: 11507, Start Num: 30
Candidate Starts for Pembroke_16:
(Start: 24 @10968 has 18 MA's), (Start: 29 @10983 has 20 MA's), (Start: 30 @11004 has 713 MA's), (48, 11181), (66, 11313), (68, 11325),

Gene: Penny1_16 Start: 10982, Stop: 11506, Start Num: 29
Candidate Starts for Penny1_16:
(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: Pepe_15 Start: 11534, Stop: 12046, Start Num: 30
Candidate Starts for Pepe_15:
(12, 11333), (13, 11348), (Start: 30 @11534 has 713 MA's), (60, 11807), (81, 11945), (87, 12005), (92, 12023),

Gene: Perplexer_14 Start: 10943, Stop: 11455, Start Num: 30
Candidate Starts for Perplexer_14:

(Start: 24 @10910 has 18 MA's), (Start: 30 @10943 has 713 MA's), (41, 11054), (54, 11165), (79, 11342),

Gene: Perseus_15 Start: 11194, Stop: 11706, Start Num: 30

Candidate Starts for Perseus_15:

(Start: 30 @11194 has 713 MA's), (60, 11467), (81, 11605), (87, 11665), (92, 11683),

Gene: PeterPeter_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for PeterPeter_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Petersenfast_14 Start: 12155, Stop: 12676, Start Num: 30

Candidate Starts for Petersenfast_14:

(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: Peterson_17 Start: 12495, Stop: 13007, Start Num: 30

Candidate Starts for Peterson_17:

(Start: 30 @12495 has 713 MA's), (60, 12768), (81, 12906), (87, 12966), (92, 12984),

Gene: PetiteSangsue_14 Start: 10949, Stop: 11461, Start Num: 30

Candidate Starts for PetiteSangsue_14:

(Start: 24 @10916 has 18 MA's), (Start: 30 @10949 has 713 MA's), (41, 11060), (54, 11171), (79, 11348),

Gene: Petp2012_16 Start: 12010, Stop: 12522, Start Num: 30

Candidate Starts for Petp2012_16:

(12, 11809), (13, 11824), (Start: 30 @12010 has 713 MA's), (45, 12175), (60, 12283), (81, 12421), (87, 12481), (92, 12499),

Gene: Petruccio_14 Start: 10752, Stop: 11264, Start Num: 30

Candidate Starts for Petruccio_14:

(Start: 30 @10752 has 713 MA's), (45, 10917), (60, 11025), (81, 11163), (87, 11223), (92, 11241),

Gene: PetterN_13 Start: 10060, Stop: 10572, Start Num: 30

Candidate Starts for PetterN_13:

(Start: 24 @10027 has 18 MA's), (Start: 30 @10060 has 713 MA's), (40, 10153), (62, 10348), (66, 10375), (76, 10444), (82, 10477), (90, 10543),

Gene: Ph8s_16 Start: 10384, Stop: 10908, Start Num: 30

Candidate Starts for Ph8s_16:

(Start: 30 @10384 has 713 MA's), (33, 10435), (35, 10453), (42, 10525), (46, 10555), (52, 10591), (66, 10699), (68, 10711), (70, 10720), (85, 10846), (91, 10879), (93, 10888),

Gene: Phacado_14 Start: 10938, Stop: 11450, Start Num: 30

Candidate Starts for Phacado_14:

(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Phaded_18 Start: 13709, Stop: 14218, Start Num: 30

Candidate Starts for Phaded_18:

(Start: 30 @13709 has 713 MA's), (64, 13997), (68, 14024), (85, 14162),

Gene: Phaeder_16 Start: 12267, Stop: 12800, Start Num: 30

Candidate Starts for Phaeder_16:

(Start: 30 @12267 has 713 MA's), (33, 12315), (44, 12429), (64, 12570), (66, 12585), (68, 12597), (91, 12765), (92, 12768),

Gene: PhailMary_10 Start: 7269, Stop: 7754, Start Num: 32

Candidate Starts for PhailMary_10:

(18, 7107), (Start: 32 @7269 has 36 MA's), (58, 7500), (69, 7566), (77, 7623),

Gene: Phantastic_14 Start: 10509, Stop: 11030, Start Num: 30

Candidate Starts for Phantastic_14:

(Start: 30 @10509 has 713 MA's), (47, 10683), (62, 10791), (68, 10830), (95, 11001),

Gene: Pharaoh_15 Start: 12042, Stop: 12578, Start Num: 30

Candidate Starts for Pharaoh_15:

(Start: 30 @12042 has 713 MA's), (42, 12180), (49, 12225), (58, 12306), (64, 12339), (92, 12543), (94, 12552),

Gene: Phelipe_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Phelipe_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: PherrisBueller_15 Start: 10963, Stop: 11475, Start Num: 30

Candidate Starts for PherrisBueller_15:

(Start: 30 @10963 has 713 MA's), (60, 11236), (81, 11374), (87, 11434), (92, 11452),

Gene: Phighter1804_14 Start: 10917, Stop: 11429, Start Num: 30

Candidate Starts for Phighter1804_14:

(Start: 24 @10884 has 18 MA's), (Start: 30 @10917 has 713 MA's), (41, 11028), (64, 11214), (79, 11316),

Gene: Phillis_12 Start: 9803, Stop: 10324, Start Num: 29

Candidate Starts for Phillis_12:

(Start: 29 @9803 has 20 MA's), (51, 10013), (57, 10070), (61, 10094), (70, 10148), (75, 10193), (84, 10253),

Gene: PhishRPhriends_15 Start: 10266, Stop: 10769, Start Num: 30

Candidate Starts for PhishRPhriends_15:

(Start: 24 @10230 has 18 MA's), (Start: 29 @10245 has 20 MA's), (Start: 30 @10266 has 713 MA's), (48, 10443), (62, 10548), (66, 10575), (68, 10587),

Gene: Phlei_11 Start: 12163, Stop: 12693, Start Num: 30

Candidate Starts for Phlei_11:

(26, 12142), (Start: 30 @12163 has 713 MA's), (42, 12307), (55, 12400), (59, 12442), (68, 12493), (73, 12538), (81, 12589), (85, 12634), (95, 12679),

Gene: Phlorence_12 Start: 10371, Stop: 10880, Start Num: 30

Candidate Starts for Phlorence_12:

(Start: 30 @10371 has 713 MA's), (40, 10461), (56, 10614), (62, 10656), (66, 10683), (70, 10704), (76, 10752),

Gene: Phoebe_16 Start: 11001, Stop: 11504, Start Num: 30

Candidate Starts for Phoebe_16:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Phonnegut_16 Start: 12300, Stop: 12833, Start Num: 30
Candidate Starts for Phonnegut_16:
(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: Phontbonne_14 Start: 10886, Stop: 11398, Start Num: 30
Candidate Starts for Phontbonne_14:
(Start: 30 @10886 has 713 MA's), (41, 10997), (64, 11183), (79, 11285),

Gene: Phoxy_16 Start: 11087, Stop: 11590, Start Num: 30
Candidate Starts for Phoxy_16:
(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's), (48, 11264), (66, 11396), (68, 11408),

Gene: Phrankenstein_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for Phrankenstein_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Phranny_17 Start: 11073, Stop: 11576, Start Num: 30
Candidate Starts for Phranny_17:
(Start: 24 @11037 has 18 MA's), (Start: 29 @11052 has 20 MA's), (Start: 30 @11073 has 713 MA's), (48, 11250), (66, 11382), (68, 11394),

Gene: PhrostyMug_14 Start: 11108, Stop: 11620, Start Num: 30
Candidate Starts for PhrostyMug_14:
(Start: 30 @11108 has 713 MA's), (60, 11381), (81, 11519), (87, 11579), (92, 11597),

Gene: PickleBack_12 Start: 10082, Stop: 10594, Start Num: 30
Candidate Starts for PickleBack_12:
(17, 9983), (Start: 24 @10049 has 18 MA's), (Start: 30 @10082 has 713 MA's), (40, 10175), (62, 10370), (66, 10397), (76, 10466), (82, 10499), (90, 10565),

Gene: PinkPlastic_13 Start: 10877, Stop: 11389, Start Num: 30
Candidate Starts for PinkPlastic_13:
(Start: 30 @10877 has 713 MA's), (60, 11150), (81, 11288), (87, 11348), (92, 11366),

Gene: Pinto_16 Start: 11185, Stop: 11697, Start Num: 30
Candidate Starts for Pinto_16:
(12, 10984), (13, 10999), (Start: 30 @11185 has 713 MA's), (45, 11350), (60, 11458), (81, 11596), (87, 11656), (92, 11674),

Gene: Pioneer_16 Start: 12300, Stop: 12833, Start Num: 30
Candidate Starts for Pioneer_16:
(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: Pipcraft_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Pipcraft_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Pippin_16 Start: 11446, Stop: 11958, Start Num: 30
Candidate Starts for Pippin_16:

(12, 11245), (13, 11260), (Start: 30 @11446 has 713 MA's), (45, 11611), (60, 11719), (81, 11857), (87, 11917), (92, 11935),

Gene: Piro94_16 Start: 12117, Stop: 12641, Start Num: 30

Candidate Starts for Piro94_16:

(Start: 24 @12081 has 18 MA's), (26, 12096), (Start: 30 @12117 has 713 MA's), (57, 12378), (85, 12582), (91, 12615),

Gene: Pistachio_15 Start: 10093, Stop: 10614, Start Num: 30

Candidate Starts for Pistachio_15:

(Start: 30 @10093 has 713 MA's), (47, 10267), (62, 10375), (68, 10414), (95, 10585),

Gene: Pita2_16 Start: 11543, Stop: 12055, Start Num: 30

Candidate Starts for Pita2_16:

(12, 11342), (13, 11357), (Start: 30 @11543 has 713 MA's), (60, 11816), (81, 11954), (87, 12014), (92, 12032),

Gene: Pmask_18 Start: 11667, Stop: 12197, Start Num: 30

Candidate Starts for Pmask_18:

(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: Pocahontas_15 Start: 11090, Stop: 11599, Start Num: 30

Candidate Starts for Pocahontas_15:

(16, 10985), (Start: 30 @11090 has 713 MA's), (62, 11372), (68, 11411), (90, 11570),

Gene: Polymorphads_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Polymorphads_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Pomar16_18 Start: 11530, Stop: 12087, Start Num: 24

Candidate Starts for Pomar16_18:

(Start: 24 @11530 has 18 MA's), (26, 11545), (Start: 30 @11566 has 713 MA's), (33, 11617), (66, 11881), (70, 11902), (91, 12061),

Gene: Poompha_13 Start: 8813, Stop: 9334, Start Num: 30

Candidate Starts for Poompha_13:

(Start: 29 @8792 has 20 MA's), (Start: 30 @8813 has 713 MA's), (47, 8999),

Gene: Popcicle_15 Start: 11090, Stop: 11599, Start Num: 30

Candidate Starts for Popcicle_15:

(16, 10985), (Start: 30 @11090 has 713 MA's), (62, 11372), (68, 11411), (90, 11570),

Gene: PotatoSplit_17 Start: 10967, Stop: 11506, Start Num: 24

Candidate Starts for PotatoSplit_17:

(Start: 24 @10967 has 18 MA's), (Start: 29 @10982 has 20 MA's), (Start: 30 @11003 has 713 MA's), (48, 11180), (66, 11312), (68, 11324),

Gene: Power_15 Start: 11565, Stop: 12077, Start Num: 30

Candidate Starts for Power_15:

(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: Priamo_18 Start: 11695, Stop: 12225, Start Num: 30

Candidate Starts for Priamo_18:

(Start: 30 @11695 has 713 MA's), (42, 11839), (55, 11932), (56, 11944), (74, 12070),

Gene: Priya_16 Start: 12298, Stop: 12831, Start Num: 30

Candidate Starts for Priya_16:

(Start: 30 @12298 has 713 MA's), (33, 12346), (44, 12460), (64, 12601), (66, 12616), (68, 12628), (91, 12796), (92, 12799),

Gene: Pukovnik_17 Start: 13276, Stop: 13785, Start Num: 30

Candidate Starts for Pukovnik_17:

(Start: 30 @13276 has 713 MA's), (47, 13444), (64, 13564), (68, 13591), (85, 13729),

Gene: Pumbaa_14 Start: 10914, Stop: 11426, Start Num: 30

Candidate Starts for Pumbaa_14:

(Start: 30 @10914 has 713 MA's), (41, 11025), (58, 11178), (79, 11313),

Gene: Puppy_15 Start: 10165, Stop: 10686, Start Num: 30

Candidate Starts for Puppy_15:

(Start: 30 @10165 has 713 MA's), (47, 10339), (62, 10447), (68, 10486), (95, 10657),

Gene: PurpleHaze_16 Start: 11074, Stop: 11577, Start Num: 30

Candidate Starts for PurpleHaze_16:

(Start: 24 @11038 has 18 MA's), (Start: 29 @11053 has 20 MA's), (Start: 30 @11074 has 713 MA's), (48, 11251), (66, 11383), (68, 11395),

Gene: QTRlifeCrisis_14 Start: 11511, Stop: 12023, Start Num: 30

Candidate Starts for QTRlifeCrisis_14:

(12, 11310), (13, 11325), (Start: 30 @11511 has 713 MA's), (45, 11676), (60, 11784), (81, 11922), (87, 11982), (92, 12000),

Gene: Qobbit_16 Start: 12297, Stop: 12830, Start Num: 30

Candidate Starts for Qobbit_16:

(Start: 30 @12297 has 713 MA's), (33, 12345), (44, 12459), (64, 12600), (66, 12615), (68, 12627), (91, 12795), (92, 12798),

Gene: QueenB2_15 Start: 11633, Stop: 12145, Start Num: 30

Candidate Starts for QueenB2_15:

(Start: 24 @11597 has 18 MA's), (28, 11612), (Start: 30 @11633 has 713 MA's), (64, 11921), (68, 11948), (85, 12086),

Gene: QueenBeesly_15 Start: 11565, Stop: 12077, Start Num: 30

Candidate Starts for QueenBeesly_15:

(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: QuinnKiro_14 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for QuinnKiro_14:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: RER2_4 Start: 4090, Stop: 4575, Start Num: 32

Candidate Starts for RER2_4:

(18, 3928), (Start: 32 @4090 has 36 MA's), (58, 4321), (69, 4387), (77, 4444), (93, 4558),

Gene: RGL3_4 Start: 4079, Stop: 4564, Start Num: 32

Candidate Starts for RGL3_4:

(Start: 32 @4079 has 36 MA's), (44, 4202), (53, 4262), (58, 4310), (69, 4376), (77, 4433),

Gene: Rachaly_18 Start: 13308, Stop: 13817, Start Num: 30

Candidate Starts for Rachaly_18:

(Start: 30 @13308 has 713 MA's), (42, 13443), (64, 13602), (66, 13617), (85, 13761),

Gene: Rahalelujah_14 Start: 10342, Stop: 10866, Start Num: 30

Candidate Starts for Rahalelujah_14:

(Start: 30 @10342 has 713 MA's), (35, 10405), (40, 10441), (91, 10831), (92, 10834),

Gene: Rajelicia_14 Start: 11018, Stop: 11530, Start Num: 30

Candidate Starts for Rajelicia_14:

(Start: 30 @11018 has 713 MA's), (45, 11183), (60, 11291), (81, 11429), (87, 11489), (92, 11507),

Gene: Rasputin_11 Start: 7203, Stop: 7688, Start Num: 32

Candidate Starts for Rasputin_11:

(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: ReMo_17 Start: 10750, Stop: 11262, Start Num: 30

Candidate Starts for ReMo_17:

(Start: 30 @10750 has 713 MA's), (50, 10945),

Gene: Reba_17 Start: 10746, Stop: 11249, Start Num: 30

Candidate Starts for Reba_17:

(Start: 24 @10710 has 18 MA's), (Start: 29 @10725 has 20 MA's), (Start: 30 @10746 has 713 MA's), (48, 10923), (66, 11055), (68, 11067),

Gene: Rebeuca_15 Start: 10862, Stop: 11404, Start Num: 29

Candidate Starts for Rebeuca_15:

(Start: 29 @10862 has 20 MA's), (Start: 30 @10883 has 713 MA's), (37, 10970),

Gene: RedRock_18 Start: 13548, Stop: 14060, Start Num: 30

Candidate Starts for RedRock_18:

(Start: 24 @13509 has 18 MA's), (Start: 30 @13548 has 713 MA's), (35, 13608), (70, 13875), (85, 14001),

Gene: Refuge_18 Start: 13883, Stop: 14416, Start Num: 30

Candidate Starts for Refuge_18:

(Start: 30 @13883 has 713 MA's), (42, 14021), (49, 14066), (64, 14180), (89, 14369),

Gene: Relief_14 Start: 10940, Stop: 11452, Start Num: 30

Candidate Starts for Relief_14:

(Start: 30 @10940 has 713 MA's), (41, 11051), (79, 11339),

Gene: Remus_17 Start: 10711, Stop: 11223, Start Num: 30

Candidate Starts for Remus_17:

(Start: 30 @10711 has 713 MA's), (50, 10906),

Gene: ResDef_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for ResDef_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Retro23_15 Start: 11716, Stop: 12228, Start Num: 30

Candidate Starts for Retro23_15:

(Start: 24 @11680 has 18 MA's), (28, 11695), (Start: 30 @11716 has 713 MA's), (64, 12004), (68, 12031), (85, 12169),

Gene: RexFury_11 Start: 7249, Stop: 7734, Start Num: 32

Candidate Starts for RexFury_11:

(18, 7087), (Start: 32 @7249 has 36 MA's), (58, 7480), (69, 7546), (77, 7603), (93, 7717),

Gene: Rhodalysa_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Rhodalysa_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: RhynO_15 Start: 10861, Stop: 11382, Start Num: 30

Candidate Starts for RhynO_15:

(Start: 29 @10840 has 20 MA's), (Start: 30 @10861 has 713 MA's), (37, 10948),

Gene: Rhynn_14 Start: 11112, Stop: 11624, Start Num: 30

Candidate Starts for Rhynn_14:

(Start: 30 @11112 has 713 MA's), (45, 11277), (60, 11385), (81, 11523), (87, 11583), (92, 11601),

Gene: RidgeCB_14 Start: 10639, Stop: 11151, Start Num: 30

Candidate Starts for RidgeCB_14:

(13, 10453), (Start: 30 @10639 has 713 MA's), (45, 10804), (60, 10912), (81, 11050), (87, 11110), (92, 11128),

Gene: Rifter_18 Start: 11654, Stop: 12175, Start Num: 30

Candidate Starts for Rifter_18:

(16, 11558), (Start: 30 @11654 has 713 MA's), (33, 11702), (42, 11789), (56, 11894), (74, 12020),

Gene: Ringer_14 Start: 11370, Stop: 11882, Start Num: 30

Candidate Starts for Ringer_14:

(12, 11169), (13, 11184), (Start: 30 @11370 has 713 MA's), (60, 11643), (81, 11781), (87, 11841), (92, 11859),

Gene: Roary_12 Start: 9807, Stop: 10313, Start Num: 30

Candidate Starts for Roary_12:

(Start: 30 @9807 has 713 MA's), (51, 9999), (57, 10056), (61, 10080), (66, 10113), (70, 10134), (84, 10239),

Gene: Rockstar_14 Start: 10418, Stop: 10942, Start Num: 30

Candidate Starts for Rockstar_14:

(Start: 24 @10382 has 18 MA's), (Start: 30 @10418 has 713 MA's), (47, 10595), (62, 10703), (68, 10742),

Gene: Rohr_15 Start: 11318, Stop: 11830, Start Num: 30

Candidate Starts for Rohr_15:

(12, 11117), (13, 11132), (Start: 30 @11318 has 713 MA's), (45, 11483), (60, 11591), (81, 11729), (87, 11789), (92, 11807),

Gene: Roksolana_18 Start: 11681, Stop: 12202, Start Num: 30

Candidate Starts for Roksolana_18:

(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (55, 11909), (56, 11921), (74, 12047),

Gene: Romney_14 Start: 10938, Stop: 11450, Start Num: 30
Candidate Starts for Romney_14:
(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Roosevelt_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Roosevelt_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Rosalind_17 Start: 10872, Stop: 11384, Start Num: 30
Candidate Starts for Rosalind_17:
(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: Rubeus_15 Start: 11144, Stop: 11656, Start Num: 30
Candidate Starts for Rubeus_15:
(Start: 30 @11144 has 713 MA's), (45, 11309), (60, 11417), (81, 11555), (87, 11615), (92, 11633),

Gene: Rufus_15 Start: 11201, Stop: 11713, Start Num: 30
Candidate Starts for Rufus_15:
(12, 11000), (13, 11015), (Start: 30 @11201 has 713 MA's), (45, 11366), (60, 11474), (81, 11612), (87, 11672), (92, 11690),

Gene: Ruin_14 Start: 10938, Stop: 11450, Start Num: 30
Candidate Starts for Ruin_14:
(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Rummer_16 Start: 11087, Stop: 11590, Start Num: 30
Candidate Starts for Rummer_16:
(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's), (48, 11264), (66, 11396), (68, 11408),

Gene: Ruotula_13 Start: 11321, Stop: 11833, Start Num: 30
Candidate Starts for Ruotula_13:
(Start: 30 @11321 has 713 MA's), (60, 11594), (81, 11732), (87, 11792), (92, 11810),

Gene: Rutherferd_16 Start: 11662, Stop: 12174, Start Num: 30
Candidate Starts for Rutherferd_16:
(12, 11461), (13, 11476), (Start: 30 @11662 has 713 MA's), (60, 11935), (81, 12073), (87, 12133), (92, 12151),

Gene: STLscum_15 Start: 11231, Stop: 11743, Start Num: 30
Candidate Starts for STLscum_15:
(12, 11030), (13, 11045), (Start: 30 @11231 has 713 MA's), (45, 11396), (60, 11504), (81, 11642), (87, 11702), (92, 11720),

Gene: Sabertooth_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Sabertooth_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Sabia_16 Start: 10960, Stop: 11499, Start Num: 24
Candidate Starts for Sabia_16:

(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's), (66, 11305), (68, 11317),

Gene: Sabinator_16 Start: 11001, Stop: 11504, Start Num: 30

Candidate Starts for Sabinator_16:

(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Sagefire_15 Start: 11913, Stop: 12425, Start Num: 30

Candidate Starts for Sagefire_15:

(Start: 30 @11913 has 713 MA's), (45, 12078), (60, 12186), (81, 12324), (87, 12384), (92, 12402),

Gene: Saintus_12 Start: 9818, Stop: 10330, Start Num: 30

Candidate Starts for Saintus_12:

(Start: 30 @9818 has 713 MA's), (51, 10019), (57, 10076), (61, 10100), (70, 10154), (75, 10199), (84, 10259),

Gene: Salz_15 Start: 12149, Stop: 12670, Start Num: 30

Candidate Starts for Salz_15:

(26, 12128), (Start: 30 @12149 has 713 MA's), (33, 12200), (41, 12263), (64, 12449),

Gene: Sandaddy_13 Start: 11037, Stop: 11549, Start Num: 30

Candidate Starts for Sandaddy_13:

(Start: 30 @11037 has 713 MA's), (60, 11310), (81, 11448), (87, 11508), (92, 11526),

Gene: Sanya_13 Start: 11699, Stop: 12211, Start Num: 30

Candidate Starts for Sanya_13:

(Start: 30 @11699 has 713 MA's), (60, 11972), (81, 12110), (87, 12170), (92, 12188),

Gene: SarFire_14 Start: 10897, Stop: 11409, Start Num: 30

Candidate Starts for SarFire_14:

(12, 10696), (13, 10711), (Start: 30 @10897 has 713 MA's), (45, 11062), (60, 11170), (81, 11308), (87, 11368), (92, 11386),

Gene: SaturnRing_14 Start: 10546, Stop: 11067, Start Num: 30

Candidate Starts for SaturnRing_14:

(Start: 30 @10546 has 713 MA's), (47, 10720), (62, 10828), (68, 10867), (95, 11038),

Gene: Scamp_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Scamp_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Scherzo_16 Start: 12300, Stop: 12833, Start Num: 30

Candidate Starts for Scherzo_16:

(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: Scorpia_13 Start: 10061, Stop: 10573, Start Num: 30

Candidate Starts for Scorpia_13:

(Start: 24 @10028 has 18 MA's), (Start: 30 @10061 has 713 MA's), (40, 10154), (62, 10349), (66, 10376), (76, 10445), (82, 10478), (90, 10544),

Gene: Scout_14 Start: 9841, Stop: 10365, Start Num: 30

Candidate Starts for Scout_14:

(Start: 30 @9841 has 713 MA's), (47, 10018), (62, 10126), (68, 10165),

Gene: Scowl_15 Start: 11589, Stop: 12101, Start Num: 30

Candidate Starts for Scowl_15:

(Start: 30 @11589 has 713 MA's), (45, 11754), (60, 11862), (81, 12000), (87, 12060), (92, 12078),

Gene: Seabiscuit_16 Start: 11118, Stop: 11630, Start Num: 30

Candidate Starts for Seabiscuit_16:

(Start: 30 @11118 has 713 MA's), (60, 11391), (81, 11529), (87, 11589), (92, 11607),

Gene: Seanderson_15 Start: 11562, Stop: 12074, Start Num: 30

Candidate Starts for Seanderson_15:

(Start: 30 @11562 has 713 MA's), (45, 11727), (60, 11835), (81, 11973), (87, 12033), (92, 12051),

Gene: SemperFi_17 Start: 11993, Stop: 12505, Start Num: 30

Candidate Starts for SemperFi_17:

(Start: 24 @11957 has 18 MA's), (28, 11972), (Start: 30 @11993 has 713 MA's), (64, 12281), (68, 12308), (70, 12317), (85, 12446), (91, 12479),

Gene: Serenity_14 Start: 10524, Stop: 11048, Start Num: 30

Candidate Starts for Serenity_14:

(23, 10488), (25, 10503), (Start: 30 @10524 has 713 MA's), (33, 10575), (42, 10665), (46, 10695), (66, 10839), (70, 10860), (85, 10989), (91, 11022),

Gene: Severus_13 Start: 8792, Stop: 9334, Start Num: 29

Candidate Starts for Severus_13:

(Start: 29 @8792 has 20 MA's), (Start: 30 @8813 has 713 MA's), (47, 8999),

Gene: Shaka_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Shaka_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Sham4_15 Start: 12155, Stop: 12676, Start Num: 30

Candidate Starts for Sham4_15:

(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: ShayRa_18 Start: 10872, Stop: 11384, Start Num: 30

Candidate Starts for ShayRa_18:

(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: SheaKeira_15 Start: 10521, Stop: 11054, Start Num: 30

Candidate Starts for SheaKeira_15:

(Start: 29 @10500 has 20 MA's), (Start: 30 @10521 has 713 MA's), (33, 10572), (35, 10590), (55, 10755), (68, 10848),

Gene: Sheen_16 Start: 12621, Stop: 13130, Start Num: 30

Candidate Starts for Sheen_16:

(22, 12576), (Start: 29 @12600 has 20 MA's), (Start: 30 @12621 has 713 MA's), (56, 12861), (67, 12939), (68, 12942), (77, 13005), (78, 13008),

Gene: SheldonCooper_14 Start: 10918, Stop: 11430, Start Num: 30

Candidate Starts for SheldonCooper_14:

(Start: 24 @10885 has 18 MA's), (Start: 30 @10918 has 713 MA's), (41, 11029), (70, 11251), (79, 11317),

Gene: ShortQueendom_13 Start: 10703, Stop: 11215, Start Num: 30

Candidate Starts for ShortQueendom_13:

(Start: 30 @10703 has 713 MA's), (45, 10868), (60, 10976), (81, 11114), (87, 11174), (92, 11192),

Gene: Shuman_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Shuman_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Shygu2_14 Start: 10943, Stop: 11458, Start Num: 30

Candidate Starts for Shygu2_14:

(Start: 24 @10910 has 18 MA's), (Start: 30 @10943 has 713 MA's), (54, 11168), (79, 11345),

Gene: Sibs6_16 Start: 11337, Stop: 11849, Start Num: 30

Candidate Starts for Sibs6_16:

(12, 11136), (13, 11151), (Start: 30 @11337 has 713 MA's), (45, 11502), (60, 11610), (81, 11748), (87, 11808), (92, 11826),

Gene: SkiPole_16 Start: 11211, Stop: 11723, Start Num: 30

Candidate Starts for SkiPole_16:

(12, 11010), (13, 11025), (Start: 30 @11211 has 713 MA's), (60, 11484), (81, 11622), (87, 11682), (92, 11700),

Gene: Skipitt_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Skipitt_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Slagathor_15 Start: 10989, Stop: 11501, Start Num: 30

Candidate Starts for Slagathor_15:

(12, 10788), (13, 10803), (Start: 30 @10989 has 713 MA's), (45, 11154), (60, 11262), (81, 11400), (87, 11460), (92, 11478),

Gene: Smairt_15 Start: 11508, Stop: 12020, Start Num: 30

Candidate Starts for Smairt_15:

(13, 11322), (Start: 30 @11508 has 713 MA's), (45, 11673), (60, 11781), (81, 11919), (87, 11979), (92, 11997),

Gene: Smeadley_12 Start: 9840, Stop: 10346, Start Num: 30

Candidate Starts for Smeadley_12:

(Start: 30 @9840 has 713 MA's), (51, 10032), (57, 10089), (61, 10113), (66, 10146), (70, 10167), (84, 10272),

Gene: Smeagan_17 Start: 12063, Stop: 12590, Start Num: 30

Candidate Starts for Smeagan_17:

(Start: 30 @12063 has 713 MA's), (64, 12363), (66, 12378), (85, 12531), (91, 12564),

Gene: Smeagol_15 Start: 11925, Stop: 12437, Start Num: 30

Candidate Starts for Smeagol_15:

(Start: 30 @11925 has 713 MA's), (60, 12198), (81, 12336), (87, 12396), (92, 12414),

Gene: SmellyB_18 Start: 11677, Stop: 12207, Start Num: 30

Candidate Starts for SmellyB_18:
(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: SnapTap_15 Start: 11565, Stop: 12077, Start Num: 30
Candidate Starts for SnapTap_15:
(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: Snape_15 Start: 12155, Stop: 12676, Start Num: 30
Candidate Starts for Snape_15:
(26, 12134), (Start: 30 @12155 has 713 MA's), (33, 12206), (41, 12269), (64, 12455),

Gene: Snazzy_12 Start: 10518, Stop: 11030, Start Num: 30
Candidate Starts for Snazzy_12:
(Start: 30 @10518 has 713 MA's), (60, 10791), (81, 10929), (87, 10989), (92, 11007),

Gene: Snickers_16 Start: 10977, Stop: 11480, Start Num: 30
Candidate Starts for Snickers_16:
(Start: 24 @10941 has 18 MA's), (Start: 29 @10956 has 20 MA's), (Start: 30 @10977 has 713 MA's), (48, 11154), (66, 11286), (68, 11298),

Gene: SoYo_16 Start: 10914, Stop: 11417, Start Num: 30
Candidate Starts for SoYo_16:
(Start: 24 @10878 has 18 MA's), (Start: 29 @10893 has 20 MA's), (Start: 30 @10914 has 713 MA's), (48, 11091), (66, 11223), (68, 11235),

Gene: SoilDragon_16 Start: 10652, Stop: 11191, Start Num: 24
Candidate Starts for SoilDragon_16:
(Start: 24 @10652 has 18 MA's), (Start: 29 @10667 has 20 MA's), (Start: 30 @10688 has 713 MA's), (48, 10865), (66, 10997), (68, 11009),

Gene: Solon_14 Start: 11669, Stop: 12181, Start Num: 30
Candidate Starts for Solon_14:
(Start: 30 @11669 has 713 MA's), (60, 11942), (81, 12080), (87, 12140), (92, 12158),

Gene: SororFago_14 Start: 10687, Stop: 11214, Start Num: 30
Candidate Starts for SororFago_14:
(Start: 30 @10687 has 713 MA's), (44, 10855), (55, 10930), (77, 11086), (85, 11158),

Gene: Sorpresa_13 Start: 11037, Stop: 11549, Start Num: 30
Candidate Starts for Sorpresa_13:
(Start: 30 @11037 has 713 MA's), (60, 11310), (81, 11448), (87, 11508), (92, 11526),

Gene: Soshari_18 Start: 11086, Stop: 11589, Start Num: 30
Candidate Starts for Soshari_18:
(Start: 24 @11050 has 18 MA's), (Start: 29 @11065 has 20 MA's), (Start: 30 @11086 has 713 MA's), (48, 11263), (66, 11395), (68, 11407),

Gene: Soups_17 Start: 10872, Stop: 11384, Start Num: 30
Candidate Starts for Soups_17:
(Start: 30 @10872 has 713 MA's), (50, 11067),

Gene: Sparxx_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for Sparxx_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Spike509_16 Start: 11087, Stop: 11590, Start Num: 30
Candidate Starts for Spike509_16:
(Start: 24 @11051 has 18 MA's), (Start: 29 @11066 has 20 MA's), (Start: 30 @11087 has 713 MA's),
(48, 11264), (66, 11396), (68, 11408),

Gene: SpikeBT_16 Start: 11973, Stop: 12485, Start Num: 30
Candidate Starts for SpikeBT_16:
(Start: 30 @11973 has 713 MA's), (60, 12246), (81, 12384), (87, 12444), (92, 12462),

Gene: Spino_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Spino_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Spouty_15 Start: 12297, Stop: 12830, Start Num: 30
Candidate Starts for Spouty_15:
(Start: 30 @12297 has 713 MA's), (33, 12345), (44, 12459), (64, 12600), (66, 12615), (68, 12627), (91,
12795), (92, 12798),

Gene: Squee_15 Start: 11513, Stop: 12025, Start Num: 30
Candidate Starts for Squee_15:
(Start: 30 @11513 has 713 MA's), (45, 11678), (60, 11786), (81, 11924), (87, 11984), (92, 12002),

Gene: StCroix_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for StCroix_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (77, 7572), (93, 7686),

Gene: Stagni_16 Start: 11005, Stop: 11508, Start Num: 30
Candidate Starts for Stagni_16:
(Start: 24 @10969 has 18 MA's), (Start: 29 @10984 has 20 MA's), (Start: 30 @11005 has 713 MA's),
(66, 11314), (68, 11326),

Gene: StarStuff_18 Start: 11489, Stop: 12046, Start Num: 24
Candidate Starts for StarStuff_18:
(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66,
11840), (70, 11861), (91, 12020),

Gene: Stasia_15 Start: 11385, Stop: 11897, Start Num: 30
Candidate Starts for Stasia_15:
(Start: 24 @11352 has 18 MA's), (Start: 30 @11385 has 713 MA's), (79, 11784),

Gene: Steamy_16 Start: 12092, Stop: 12607, Start Num: 30
Candidate Starts for Steamy_16:
(Start: 30 @12092 has 713 MA's), (62, 12365), (85, 12545), (89, 12569),

Gene: StepMih_16 Start: 10996, Stop: 11499, Start Num: 30
Candidate Starts for StepMih_16:
(Start: 24 @10960 has 18 MA's), (Start: 29 @10975 has 20 MA's), (Start: 30 @10996 has 713 MA's),
(48, 11173), (66, 11305), (68, 11317),

Gene: Stephig9_12 Start: 9808, Stop: 10329, Start Num: 29

Candidate Starts for Stephig9_12:

(Start: 29 @9808 has 20 MA's), (51, 10018), (57, 10075), (70, 10153), (75, 10198), (84, 10258),

Gene: StewieG_13 Start: 10885, Stop: 11397, Start Num: 30

Candidate Starts for StewieG_13:

(Start: 30 @10885 has 713 MA's), (45, 11050), (60, 11158), (81, 11296), (87, 11356), (92, 11374),

Gene: Stink_14 Start: 10908, Stop: 11420, Start Num: 30

Candidate Starts for Stink_14:

(Start: 24 @10875 has 18 MA's), (Start: 30 @10908 has 713 MA's), (41, 11019), (70, 11241), (79, 11307),

Gene: StrongArm_13 Start: 11761, Stop: 12273, Start Num: 30

Candidate Starts for StrongArm_13:

(Start: 30 @11761 has 713 MA's), (60, 12034), (81, 12172), (87, 12232), (92, 12250),

Gene: Strosahl_17 Start: 10711, Stop: 11223, Start Num: 30

Candidate Starts for Strosahl_17:

(Start: 30 @10711 has 713 MA's), (50, 10906),

Gene: Sumter_13 Start: 10628, Stop: 11140, Start Num: 30

Candidate Starts for Sumter_13:

(Start: 30 @10628 has 713 MA's), (60, 10901), (81, 11039), (87, 11099), (92, 11117),

Gene: Sunshine924_13 Start: 10612, Stop: 11124, Start Num: 30

Candidate Starts for Sunshine924_13:

(13, 10426), (Start: 30 @10612 has 713 MA's), (60, 10885), (81, 11023), (87, 11083), (92, 11101),

Gene: SuperAwesome_18 Start: 11667, Stop: 12197, Start Num: 30

Candidate Starts for SuperAwesome_18:

(Start: 30 @11667 has 713 MA's), (42, 11811), (55, 11904), (56, 11916), (74, 12042),

Gene: SuperCallie99_18 Start: 11668, Stop: 12198, Start Num: 30

Candidate Starts for SuperCallie99_18:

(Start: 30 @11668 has 713 MA's), (42, 11812), (55, 11905), (56, 11917), (74, 12043),

Gene: Superchunk_14 Start: 10281, Stop: 10805, Start Num: 30

Candidate Starts for Superchunk_14:

(Start: 30 @10281 has 713 MA's), (35, 10350), (42, 10422), (46, 10452), (66, 10596), (70, 10617), (85, 10743), (91, 10776), (93, 10785),

Gene: Swann_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for Swann_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: SweetiePie_15 Start: 11565, Stop: 12077, Start Num: 30

Candidate Starts for SweetiePie_15:

(Start: 24 @11529 has 18 MA's), (28, 11544), (Start: 30 @11565 has 713 MA's), (64, 11853), (68, 11880), (85, 12018),

Gene: SwirlSquare_17 Start: 10437, Stop: 10958, Start Num: 30

Candidate Starts for SwirlSquare_17:

(Start: 24 @10401 has 18 MA's), (26, 10416), (Start: 30 @10437 has 713 MA's), (33, 10488), (38, 10524), (42, 10578), (46, 10608), (66, 10752), (70, 10773), (85, 10899), (91, 10932),

Gene: Swirley_12 Start: 10233, Stop: 10742, Start Num: 30

Candidate Starts for Swirley_12:

(Start: 30 @10233 has 713 MA's), (40, 10323), (56, 10476), (62, 10518), (66, 10545), (70, 10566), (76, 10614),

Gene: SwissCheese_14 Start: 11073, Stop: 11585, Start Num: 30

Candidate Starts for SwissCheese_14:

(Start: 30 @11073 has 713 MA's), (60, 11346), (81, 11484), (87, 11544), (92, 11562),

Gene: Switzer_15 Start: 10996, Stop: 11508, Start Num: 30

Candidate Starts for Switzer_15:

(Start: 30 @10996 has 713 MA's), (45, 11161), (60, 11269), (81, 11407), (87, 11467), (92, 11485),

Gene: Switzerland_17 Start: 10868, Stop: 11377, Start Num: 30

Candidate Starts for Switzerland_17:

(Start: 30 @10868 has 713 MA's),

Gene: Swole_16 Start: 11543, Stop: 12055, Start Num: 30

Candidate Starts for Swole_16:

(12, 11342), (13, 11357), (Start: 30 @11543 has 713 MA's), (45, 11708), (60, 11816), (81, 11954), (87, 12014), (92, 12032),

Gene: SydNat_12 Start: 10340, Stop: 10849, Start Num: 30

Candidate Starts for SydNat_12:

(Start: 30 @10340 has 713 MA's), (40, 10430), (56, 10583), (62, 10625), (66, 10652), (76, 10721),

Gene: TNguyen7_14 Start: 10516, Stop: 11037, Start Num: 30

Candidate Starts for TNguyen7_14:

(Start: 30 @10516 has 713 MA's), (47, 10690), (62, 10798), (68, 10837), (95, 11008),

Gene: TWAMP_11 Start: 7218, Stop: 7703, Start Num: 32

Candidate Starts for TWAMP_11:

(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Takoda_11 Start: 7195, Stop: 7680, Start Num: 32

Candidate Starts for Takoda_11:

(18, 7033), (Start: 32 @7195 has 36 MA's), (58, 7426), (69, 7492), (77, 7549),

Gene: Taquarus_14 Start: 10942, Stop: 11454, Start Num: 30

Candidate Starts for Taquarus_14:

(Start: 30 @10942 has 713 MA's), (41, 11053), (79, 11341),

Gene: Target_16 Start: 11865, Stop: 12362, Start Num: 30

Candidate Starts for Target_16:

(Start: 30 @11865 has 713 MA's), (55, 12081), (56, 12093), (70, 12183), (83, 12270), (89, 12330),

Gene: TarsusIV_15 Start: 11649, Stop: 12176, Start Num: 30

Candidate Starts for TarsusIV_15:

(Start: 30 @11649 has 713 MA's), (64, 11949), (66, 11964), (70, 11985), (85, 12117), (91, 12150),

Gene: Tarynearal_11 Start: 10260, Stop: 10769, Start Num: 30
Candidate Starts for Tarynearal_11:
(Start: 30 @10260 has 713 MA's), (40, 10350), (56, 10503), (62, 10545), (66, 10572), (70, 10593), (76, 10641),

Gene: Tasp14_15 Start: 11313, Stop: 11825, Start Num: 30
Candidate Starts for Tasp14_15:
(Start: 30 @11313 has 713 MA's), (60, 11586), (81, 11724), (87, 11784), (92, 11802),

Gene: Taurus_16 Start: 11001, Stop: 11504, Start Num: 30
Candidate Starts for Taurus_16:
(Start: 24 @10965 has 18 MA's), (Start: 29 @10980 has 20 MA's), (Start: 30 @11001 has 713 MA's), (48, 11178), (66, 11310), (68, 11322),

Gene: Teodoridan_12 Start: 10445, Stop: 10957, Start Num: 30
Candidate Starts for Teodoridan_12:
(Start: 30 @10445 has 713 MA's), (60, 10718), (81, 10856), (87, 10916), (92, 10934),

Gene: Texage_14 Start: 11093, Stop: 11602, Start Num: 30
Candidate Starts for Texage_14:
(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Thanksgivukkah_14 Start: 10944, Stop: 11456, Start Num: 30
Candidate Starts for Thanksgivukkah_14:
(Start: 30 @10944 has 713 MA's), (41, 11055), (79, 11343),

Gene: Theia_11 Start: 10199, Stop: 10708, Start Num: 30
Candidate Starts for Theia_11:
(Start: 30 @10199 has 713 MA's), (40, 10289), (56, 10442), (62, 10484), (66, 10511), (70, 10532), (76, 10580),

Gene: TheloniousMonk_16 Start: 12056, Stop: 12568, Start Num: 30
Candidate Starts for TheloniousMonk_16:
(Start: 30 @12056 has 713 MA's), (45, 12221), (60, 12329), (81, 12467), (87, 12527), (92, 12545),

Gene: Thor_14 Start: 10897, Stop: 11409, Start Num: 30
Candidate Starts for Thor_14:
(12, 10696), (13, 10711), (Start: 30 @10897 has 713 MA's), (45, 11062), (60, 11170), (81, 11308), (87, 11368), (92, 11386),

Gene: Tiffany_16 Start: 10876, Stop: 11400, Start Num: 29
Candidate Starts for Tiffany_16:
(Start: 24 @10861 has 18 MA's), (Start: 29 @10876 has 20 MA's), (Start: 30 @10897 has 713 MA's), (48, 11074), (66, 11206), (68, 11218),

Gene: Tiger_12 Start: 10080, Stop: 10589, Start Num: 30
Candidate Starts for Tiger_12:
(Start: 30 @10080 has 713 MA's), (40, 10170), (56, 10323), (62, 10365), (66, 10392), (70, 10413), (76, 10461),

Gene: Timothy_15 Start: 12152, Stop: 12673, Start Num: 30
Candidate Starts for Timothy_15:
(26, 12131), (Start: 30 @12152 has 713 MA's), (33, 12203), (41, 12266), (64, 12452),

Gene: Timshel_15 Start: 12520, Stop: 13020, Start Num: 30

Candidate Starts for Timshel_15:

(Start: 30 @12520 has 713 MA's), (38, 12589), (41, 12616), (68, 12829), (77, 12892), (88, 12985), (89, 12988), (90, 12994),

Gene: TinaFeyge_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for TinaFeyge_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: TinyTimmy_14 Start: 12204, Stop: 12725, Start Num: 30

Candidate Starts for TinyTimmy_14:

(26, 12183), (Start: 30 @12204 has 713 MA's), (33, 12255), (41, 12318), (64, 12504),

Gene: Tinybot_13 Start: 10920, Stop: 11432, Start Num: 30

Candidate Starts for Tinybot_13:

(Start: 24 @10887 has 18 MA's), (Start: 30 @10920 has 713 MA's), (41, 11031), (70, 11253), (79, 11319),

Gene: TopsytheTRex_14 Start: 10661, Stop: 11185, Start Num: 30

Candidate Starts for TopsytheTRex_14:

(Start: 30 @10661 has 713 MA's), (35, 10727), (42, 10799), (56, 10904), (74, 11030),

Gene: TiroTheta9_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for TiroTheta9_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Toaka_14 Start: 10643, Stop: 11161, Start Num: 30

Candidate Starts for Toaka_14:

(Start: 30 @10643 has 713 MA's), (39, 10733), (40, 10739), (53, 10853), (91, 11126),

Gene: Todacoro_15 Start: 11093, Stop: 11602, Start Num: 30

Candidate Starts for Todacoro_15:

(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Tomathan_18 Start: 11525, Stop: 12046, Start Num: 30

Candidate Starts for Tomathan_18:

(Start: 24 @11489 has 18 MA's), (26, 11504), (Start: 30 @11525 has 713 MA's), (33, 11576), (66, 11840), (70, 11861), (91, 12020),

Gene: ToneTone_17 Start: 11594, Stop: 12115, Start Num: 30

Candidate Starts for ToneTone_17:

(16, 11498), (Start: 30 @11594 has 713 MA's), (33, 11642), (42, 11729), (56, 11834), (74, 11960),

Gene: Topanga_14 Start: 10833, Stop: 11354, Start Num: 30

Candidate Starts for Topanga_14:

(Start: 29 @10812 has 20 MA's), (Start: 30 @10833 has 713 MA's), (37, 10920),

Gene: Topgun_14 Start: 10802, Stop: 11314, Start Num: 30

Candidate Starts for Topgun_14:

(8, 10556), (12, 10601), (13, 10616), (Start: 30 @10802 has 713 MA's), (60, 11075), (81, 11213), (87, 11273), (92, 11291),

Gene: Tote_16 Start: 11543, Stop: 12055, Start Num: 30

Candidate Starts for Tote_16:

(12, 11342), (13, 11357), (Start: 30 @11543 has 713 MA's), (45, 11708), (60, 11816), (81, 11954), (87, 12014), (92, 12032),

Gene: Traft412_16 Start: 11724, Stop: 12236, Start Num: 30

Candidate Starts for Traft412_16:

(13, 11538), (Start: 30 @11724 has 713 MA's), (45, 11889), (60, 11997), (81, 12135), (87, 12195), (92, 12213),

Gene: Treddle_16 Start: 12039, Stop: 12551, Start Num: 30

Candidate Starts for Treddle_16:

(13, 11853), (Start: 30 @12039 has 713 MA's), (60, 12312), (81, 12450), (87, 12510), (92, 12528),

Gene: Trike_12 Start: 8784, Stop: 9326, Start Num: 29

Candidate Starts for Trike_12:

(Start: 29 @8784 has 20 MA's), (Start: 30 @8805 has 713 MA's), (47, 8991),

Gene: Tripl3t_15 Start: 11724, Stop: 12236, Start Num: 30

Candidate Starts for Tripl3t_15:

(Start: 30 @11724 has 713 MA's), (45, 11889), (60, 11997), (81, 12135), (87, 12195), (92, 12213),

Gene: Trixie_18 Start: 13264, Stop: 13788, Start Num: 30

Candidate Starts for Trixie_18:

(27, 13243), (Start: 30 @13264 has 713 MA's), (35, 13333), (56, 13510), (85, 13729),

Gene: Trooper_15 Start: 11440, Stop: 11967, Start Num: 30

Candidate Starts for Trooper_15:

(1, 11092), (6, 11164), (15, 11284), (16, 11341), (Start: 30 @11440 has 713 MA's), (45, 11608), (56, 11686), (85, 11908), (91, 11941),

Gene: Trouble_14 Start: 11374, Stop: 11886, Start Num: 30

Candidate Starts for Trouble_14:

(Start: 30 @11374 has 713 MA's), (60, 11647), (81, 11785), (87, 11845), (92, 11863),

Gene: TroyPia_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for TroyPia_14:

(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Tubs_16 Start: 12267, Stop: 12800, Start Num: 30

Candidate Starts for Tubs_16:

(Start: 30 @12267 has 713 MA's), (33, 12315), (44, 12429), (64, 12570), (66, 12585), (68, 12597), (91, 12765), (92, 12768),

Gene: Tucker_18 Start: 11681, Stop: 12202, Start Num: 30

Candidate Starts for Tucker_18:

(16, 11585), (Start: 30 @11681 has 713 MA's), (33, 11729), (42, 11816), (55, 11909), (56, 11921), (74, 12047),

Gene: Turbido_17 Start: 12090, Stop: 12617, Start Num: 30

Candidate Starts for Turbido_17:

(Start: 30 @12090 has 713 MA's), (64, 12390), (66, 12405), (70, 12426), (85, 12558), (91, 12591),

Gene: Turj99_13 Start: 10817, Stop: 11329, Start Num: 30
Candidate Starts for Turj99_13:
(Start: 30 @10817 has 713 MA's), (60, 11090), (81, 11228), (87, 11288), (92, 11306),

Gene: Twister_14 Start: 10732, Stop: 11253, Start Num: 30
Candidate Starts for Twister_14:
(Start: 29 @10711 has 20 MA's), (Start: 30 @10732 has 713 MA's), (37, 10819),

Gene: TwoPeat_15 Start: 11336, Stop: 11848, Start Num: 30
Candidate Starts for TwoPeat_15:
(Start: 30 @11336 has 713 MA's), (45, 11501), (60, 11609), (81, 11747), (87, 11807), (92, 11825),

Gene: TygerBlood_14 Start: 10941, Stop: 11453, Start Num: 30
Candidate Starts for TygerBlood_14:
(Start: 30 @10941 has 713 MA's), (41, 11052), (79, 11340),

Gene: U2_14 Start: 10998, Stop: 11510, Start Num: 30
Candidate Starts for U2_14:
(Start: 30 @10998 has 713 MA's), (45, 11163), (60, 11271), (81, 11409), (87, 11469), (92, 11487),

Gene: Ugenie5_13 Start: 12300, Stop: 12833, Start Num: 30
Candidate Starts for Ugenie5_13:
(Start: 30 @12300 has 713 MA's), (33, 12348), (44, 12462), (64, 12603), (66, 12618), (68, 12630), (91, 12798), (92, 12801),

Gene: UhSalsa_11 Start: 7218, Stop: 7703, Start Num: 32
Candidate Starts for UhSalsa_11:
(18, 7056), (Start: 32 @7218 has 36 MA's), (58, 7449), (69, 7515), (77, 7572), (93, 7686),

Gene: Ulysses_13 Start: 10660, Stop: 11172, Start Num: 30
Candidate Starts for Ulysses_13:
(Start: 24 @10627 has 18 MA's), (Start: 30 @10660 has 713 MA's), (64, 10957), (79, 11059),

Gene: UnionJack_12 Start: 9800, Stop: 10312, Start Num: 30
Candidate Starts for UnionJack_12:
(Start: 30 @9800 has 713 MA's), (40, 9893), (62, 10088), (66, 10115), (76, 10184), (82, 10217), (90, 10283),

Gene: Updawg_17 Start: 12101, Stop: 12625, Start Num: 30
Candidate Starts for Updawg_17:
(15, 11948), (Start: 24 @12065 has 18 MA's), (26, 12080), (Start: 30 @12101 has 713 MA's), (47, 12281), (64, 12401), (68, 12428), (85, 12566), (91, 12599), (93, 12608), (95, 12611),

Gene: VA6_15 Start: 11619, Stop: 12140, Start Num: 30
Candidate Starts for VA6_15:
(Start: 24 @11583 has 18 MA's), (28, 11598), (Start: 30 @11619 has 713 MA's), (64, 11916), (68, 11943), (85, 12081),

Gene: VC3_18 Start: 11582, Stop: 12103, Start Num: 30
Candidate Starts for VC3_18:
(20, 11534), (Start: 30 @11582 has 713 MA's), (42, 11726), (43, 11741), (56, 11831), (64, 11885), (66, 11900), (85, 12044), (91, 12077),

Gene: Vanisoa_14 Start: 10356, Stop: 10880, Start Num: 30
Candidate Starts for Vanisoa_14:
(Start: 30 @10356 has 713 MA's), (35, 10419), (40, 10455), (91, 10845), (92, 10848),

Gene: Veracruz_14 Start: 11093, Stop: 11602, Start Num: 30
Candidate Starts for Veracruz_14:
(16, 10988), (Start: 30 @11093 has 713 MA's), (62, 11375), (68, 11414), (90, 11573),

Gene: Violet_13 Start: 11633, Stop: 12145, Start Num: 30
Candidate Starts for Violet_13:
(8, 11387), (12, 11432), (13, 11447), (Start: 30 @11633 has 713 MA's), (60, 11906), (81, 12044), (87, 12104), (92, 12122),

Gene: Vix_16 Start: 11064, Stop: 11588, Start Num: 29
Candidate Starts for Vix_16:
(Start: 24 @11049 has 18 MA's), (Start: 29 @11064 has 20 MA's), (Start: 30 @11085 has 713 MA's), (48, 11262), (66, 11394), (68, 11406),

Gene: VohminGhazi_18 Start: 11677, Stop: 12207, Start Num: 30
Candidate Starts for VohminGhazi_18:
(Start: 30 @11677 has 713 MA's), (42, 11821), (55, 11914), (56, 11926), (74, 12052),

Gene: Waits_17 Start: 10717, Stop: 11229, Start Num: 30
Candidate Starts for Waits_17:
(Start: 30 @10717 has 713 MA's), (50, 10912),

Gene: WalterMcMickey_14 Start: 10732, Stop: 11253, Start Num: 30
Candidate Starts for WalterMcMickey_14:
(Start: 29 @10711 has 20 MA's), (Start: 30 @10732 has 713 MA's), (37, 10819),

Gene: Wander_14 Start: 10939, Stop: 11451, Start Num: 30
Candidate Starts for Wander_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Watermelon_16 Start: 11925, Stop: 12437, Start Num: 30
Candidate Starts for Watermelon_16:
(13, 11739), (Start: 30 @11925 has 713 MA's), (60, 12198), (81, 12336), (87, 12396), (92, 12414),

Gene: Watson_16 Start: 10995, Stop: 11498, Start Num: 30
Candidate Starts for Watson_16:
(Start: 24 @10959 has 18 MA's), (Start: 29 @10974 has 20 MA's), (Start: 30 @10995 has 713 MA's), (48, 11172), (66, 11304), (68, 11316),

Gene: WeiHuaDA_21 Start: 13865, Stop: 14389, Start Num: 30
Candidate Starts for WeiHuaDA_21:
(27, 13844), (Start: 30 @13865 has 713 MA's), (56, 14111), (85, 14330),

Gene: Whabigail7_17 Start: 12078, Stop: 12605, Start Num: 30
Candidate Starts for Whabigail7_17:
(Start: 30 @12078 has 713 MA's), (64, 12378), (66, 12393), (85, 12546), (91, 12579),

Gene: Wheeler_14 Start: 11091, Stop: 11603, Start Num: 30
Candidate Starts for Wheeler_14:

(12, 10890), (13, 10905), (Start: 30 @11091 has 713 MA's), (45, 11256), (60, 11364), (81, 11502), (87, 11562), (92, 11580),

Gene: WideWale_17 Start: 12101, Stop: 12625, Start Num: 30

Candidate Starts for WideWale_17:

(15, 11948), (Start: 24 @12065 has 18 MA's), (26, 12080), (Start: 30 @12101 has 713 MA's), (47, 12281), (64, 12401), (68, 12428), (85, 12566), (91, 12599), (93, 12608), (95, 12611),

Gene: Wiks_18 Start: 11662, Stop: 12183, Start Num: 30

Candidate Starts for Wiks_18:

(16, 11566), (Start: 30 @11662 has 713 MA's), (33, 11710), (42, 11797), (56, 11902), (74, 12028),

Gene: Wilbur_14 Start: 10938, Stop: 11450, Start Num: 30

Candidate Starts for Wilbur_14:

(Start: 30 @10938 has 713 MA's), (41, 11049), (79, 11337),

Gene: Wile_14 Start: 10956, Stop: 11471, Start Num: 30

Candidate Starts for Wile_14:

(4, 10665), (7, 10716), (10, 10752), (11, 10755), (Start: 24 @10923 has 18 MA's), (Start: 30 @10956 has 713 MA's), (79, 11358),

Gene: Wilkins_14 Start: 10802, Stop: 11314, Start Num: 30

Candidate Starts for Wilkins_14:

(8, 10556), (12, 10601), (13, 10616), (Start: 30 @10802 has 713 MA's), (60, 11075), (81, 11213), (87, 11273), (92, 11291),

Gene: Wizard007_14 Start: 10941, Stop: 11453, Start Num: 30

Candidate Starts for Wizard007_14:

(Start: 30 @10941 has 713 MA's), (41, 11052), (79, 11340),

Gene: Wooldri_18 Start: 10878, Stop: 11417, Start Num: 24

Candidate Starts for Wooldri_18:

(Start: 24 @10878 has 18 MA's), (Start: 29 @10893 has 20 MA's), (Start: 30 @10914 has 713 MA's), (48, 11091), (66, 11223), (68, 11235),

Gene: WunderPhul_18 Start: 11662, Stop: 12183, Start Num: 30

Candidate Starts for WunderPhul_18:

(16, 11566), (Start: 30 @11662 has 713 MA's), (33, 11710), (42, 11797), (56, 11902), (74, 12028),

Gene: Xena_14 Start: 10943, Stop: 11458, Start Num: 30

Candidate Starts for Xena_14:

(4, 10652), (7, 10703), (10, 10739), (11, 10742), (Start: 24 @10910 has 18 MA's), (Start: 30 @10943 has 713 MA's), (79, 11345),

Gene: XianYue_15 Start: 11556, Stop: 12080, Start Num: 30

Candidate Starts for XianYue_15:

(Start: 30 @11556 has 713 MA's), (33, 11607), (85, 12021),

Gene: Yecey3_15 Start: 10453, Stop: 10974, Start Num: 30

Candidate Starts for Yecey3_15:

(Start: 30 @10453 has 713 MA's), (35, 10516), (40, 10552), (64, 10747), (68, 10774),

Gene: YoSam321_14 Start: 10939, Stop: 11451, Start Num: 30

Candidate Starts for YoSam321_14:
(Start: 30 @10939 has 713 MA's), (41, 11050), (79, 11338),

Gene: Yogi_11 Start: 7203, Stop: 7688, Start Num: 32
Candidate Starts for Yogi_11:
(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: Yokurt_18 Start: 11662, Stop: 12183, Start Num: 30
Candidate Starts for Yokurt_18:
(16, 11566), (Start: 30 @11662 has 713 MA's), (33, 11710), (42, 11797), (56, 11902), (74, 12028),

Gene: Yoncess_11 Start: 7203, Stop: 7688, Start Num: 32
Candidate Starts for Yoncess_11:
(18, 7041), (Start: 32 @7203 has 36 MA's), (58, 7434), (69, 7500), (77, 7557),

Gene: Zaka_18 Start: 11662, Stop: 12183, Start Num: 30
Candidate Starts for Zaka_18:
(16, 11566), (Start: 30 @11662 has 713 MA's), (33, 11710), (42, 11797), (56, 11902), (74, 12028),

Gene: Zeeculate_13 Start: 10786, Stop: 11298, Start Num: 30
Candidate Starts for Zeeculate_13:
(12, 10585), (13, 10600), (Start: 30 @10786 has 713 MA's), (45, 10951), (60, 11059), (81, 11197), (87, 11257), (92, 11275),

Gene: Zephyr_14 Start: 10926, Stop: 11438, Start Num: 30
Candidate Starts for Zephyr_14:
(Start: 30 @10926 has 713 MA's), (45, 11091), (60, 11199), (81, 11337), (87, 11397), (92, 11415),

Gene: Zetzy_15 Start: 10568, Stop: 11059, Start Num: 30
Candidate Starts for Zetzy_15:
(Start: 24 @10532 has 18 MA's), (Start: 29 @10547 has 20 MA's), (Start: 30 @10568 has 713 MA's), (47, 10730), (66, 10865), (68, 10877),

Gene: Zeuska_15 Start: 11605, Stop: 12117, Start Num: 30
Candidate Starts for Zeuska_15:
(Start: 30 @11605 has 713 MA's), (60, 11878), (81, 12016), (87, 12076), (92, 12094),

Gene: Zimmer_17 Start: 13146, Stop: 13670, Start Num: 30
Candidate Starts for Zimmer_17:
(Start: 30 @13146 has 713 MA's), (64, 13434), (89, 13623),

Gene: Zolita_11 Start: 10341, Stop: 10850, Start Num: 30
Candidate Starts for Zolita_11:
(Start: 30 @10341 has 713 MA's), (40, 10431), (56, 10584), (62, 10626), (66, 10653), (76, 10722),

Gene: Zulu_18 Start: 11661, Stop: 12182, Start Num: 30
Candidate Starts for Zulu_18:
(16, 11565), (Start: 30 @11661 has 713 MA's), (33, 11709), (42, 11796), (56, 11901), (74, 12027),