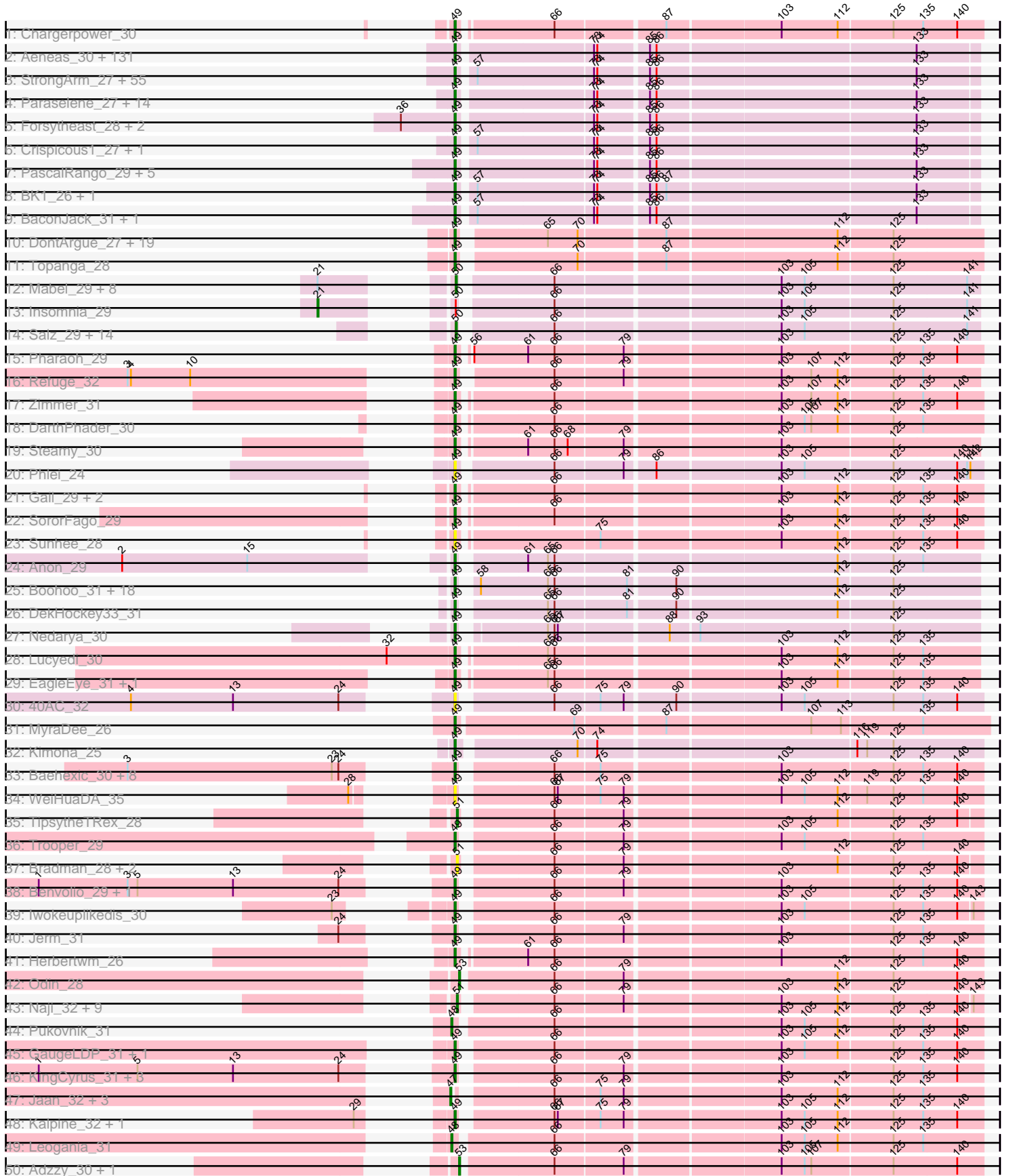
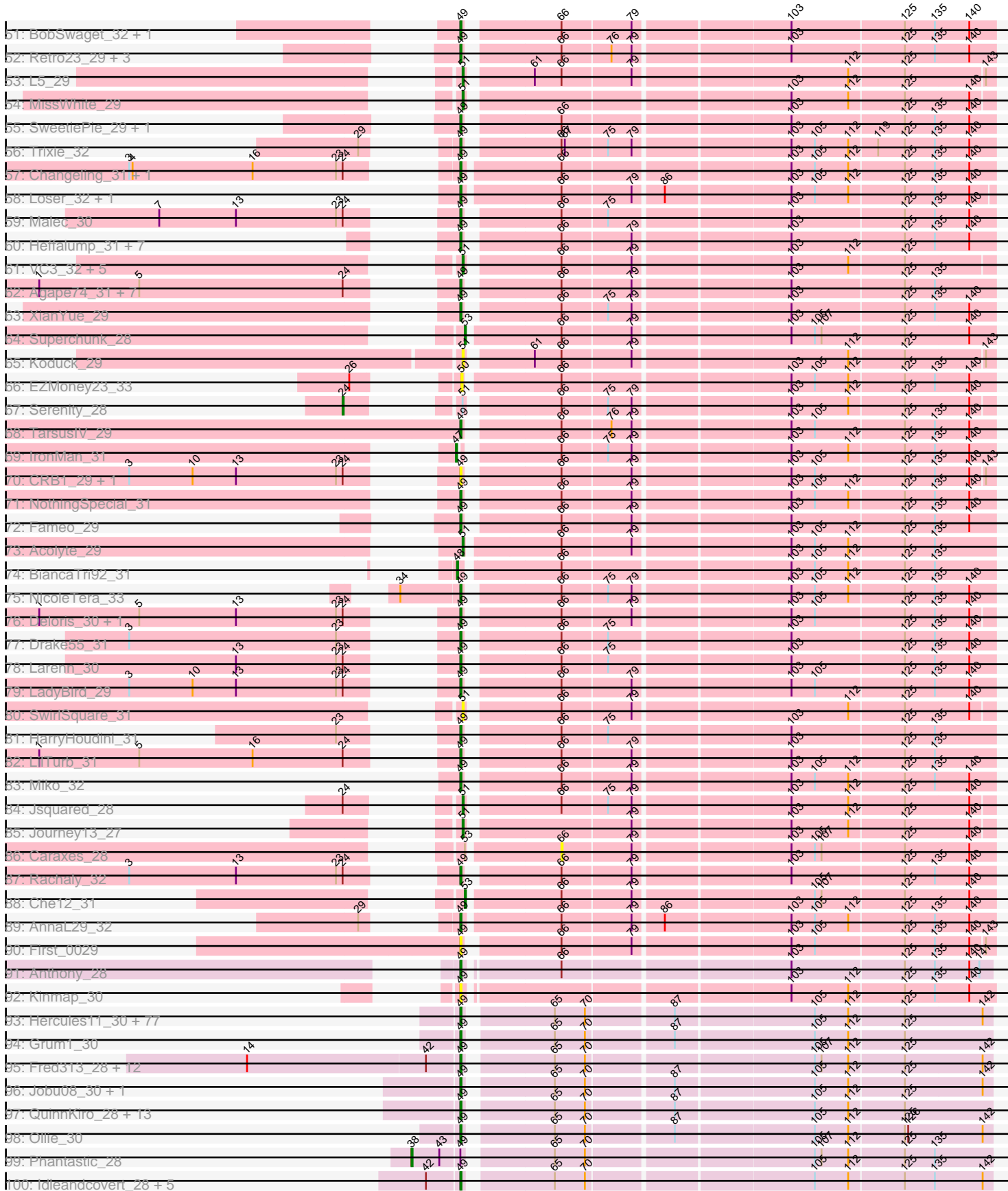


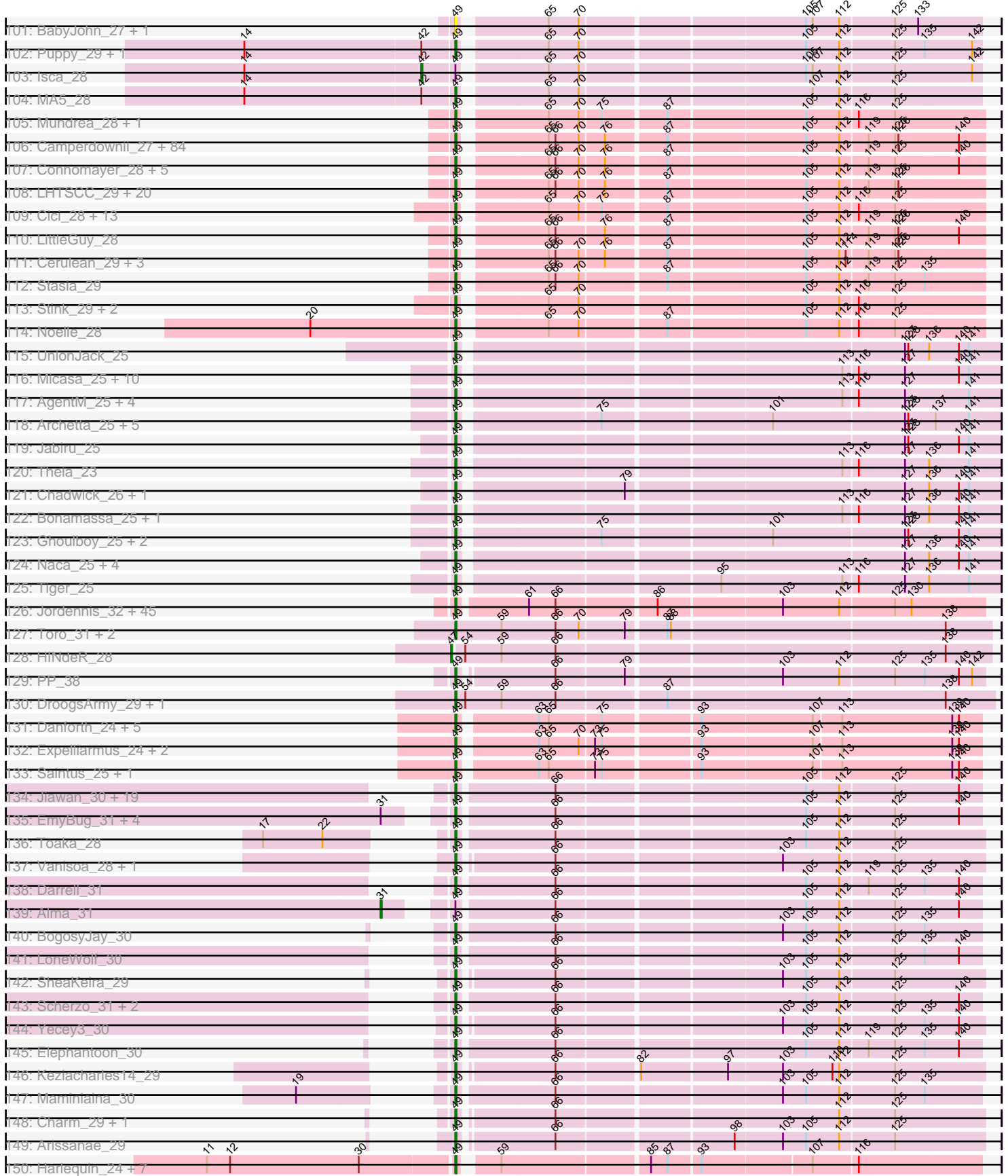
Pham 180102



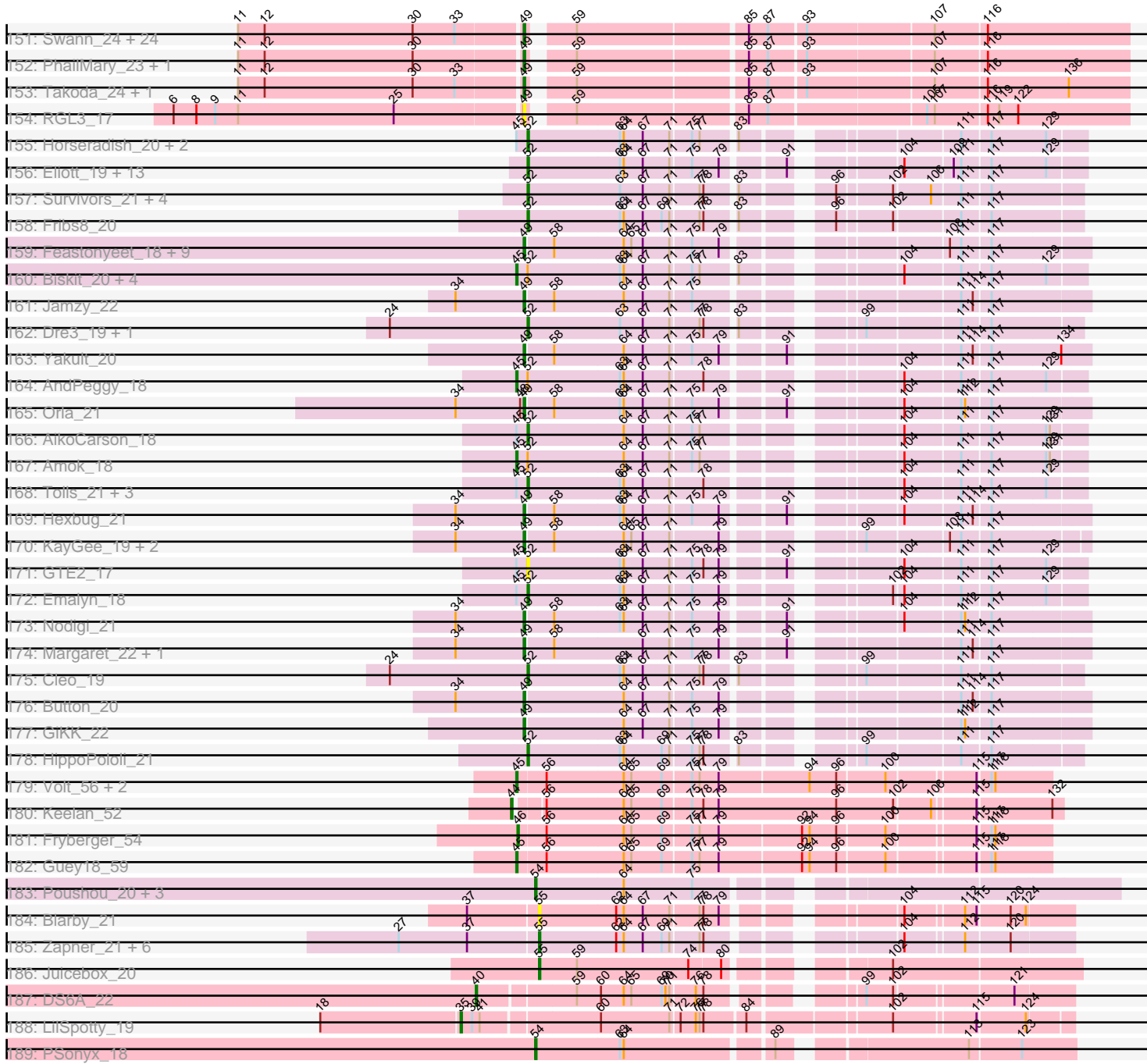
Pham 180102



Pham 180102



Pham 180102



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 180102 Report

This analysis was run 11/02/24 on database version 579.

Pham number 180102 has 949 members, 71 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_30
- Track 2 : Aeneas_30, Corvo_29, Eyeball_28, HermioneGrange_28, GageAP_30, Sumter_27, Naira_29, Jerm2_29, Alsfro_32, ShortQueendom_27, Pippin_30, SarFire_28, Bob3_27, Gyzlar_30, Museum_30, Oogway_27, Gandalf20_29, MPlant7149_27, Dulcie_27, DreamCatcher_31, Ohno789_28, Rubeus_29, JC27_30, MrGordo_28, Pinto_31, Fascinus_27, CactusRose_27, Bigfoot_27, NEHalo_28, Marcell_28, Petp2012_30, Fajezeel_30, MetalQZJ_28, Briton15_30, Mule_28, Agaliana_29, Beatrix_28, Gompeii16_28, Ringer_28, StewieG_27, Pepe_29, Chanagan_27, Greg_30, MaryBeth_28, Arcanine_29, Seanderson_29, HanShotFirst_28, ProMouse_27, DD5_29, Burton_29, Bones_28, Adahisdi_29, Bircsak_28, Lockley_28, Doom_29, Abbyshoes_29, JackSparrow_29, Abrogate_290, Dussy_29, Licorice_30, Bethlehem_28, Smairt_29, Altman_30, Ajay_29, BigPaolini_29, Edtherson_29, BillKnuckles_29, Papez_30, Marsha_28, Norz_30, BeesKnees_29, Sibs6_30, SpikeBT_30, BigMau_30, Froghopper_29, Peterson_31, Acme_30, Marge_29, Big3_28, Makemake_28, Kenmech_31, Barriga_28, Espresso_28, PattyP_30, U2_28, Pelly_29, Maroc7_27, Dexes_29, Magnar_28, Bxb1_26, Wilkins_28, Fushigi_29, Fenn_29, Rajelicia_28, Squee_29, Pari_29, Homines_28, PhrostyMug_28, Kugel_29, AFIS_28, Arlo_27, Jorgensen_28, Zephyr_28, Euphoria_28, Michley_28, Scowl_29, Rhynn_28, Sorpresa_28, Wheeler_28, Thor_28, Carlyle_30, Watermelon_30, Atkinbua_30, Monet_30, HarryOW_29, Rohr_29, Sandaddy_27, Graduation_30, Smeagol_30, Tripl3t_29, Traft412_30, Topgun_28, Sagefire_29, SkiPole_30, Cueylyss_28, Mkhuseleli_29, Ciao_28, Kanely_29, Target_31, Sanya_27, TheloniousMonk_30, Treddle_30
- Track 3 : StrongArm_27, Bexan_27, KSSJEB_28, Applejack_28, Marchy_27, Magnito_27, Seabiscuit_30, Rutherford_30, Buttons_30, QTRlifeCrisis_28, ConceptII_30, GrecoEtereo_30, PinkPlastic_27, Mryolo_27, Nerujay_29, Zeuska_29, PherrisBueller_29, Inyanga_27, Petruccio_29, Bruns_27, Violet_27, Teodoridan_26, Payneful_28, Rufus_29, Nhonho_28, Dreamboat_29, Switzer_29, Blue_28, Paphu_27, Turj99_27, STLscum_29, Dynamix_29, Hope4ever_28, Lamina13_28, KBG_29, Ruotula_27, Solon_28, Anglerfish_29, LilBib_29, Lesedi_27, Francis47_28, ILeeKay_30, Trouble_29, Snazzy_27, Hami1_30, Manatee_29, RidgeCB_28, Parliament_27, Jasper_29, Ichabod_29, McGuire_29, PacerPaul_28, Tasp14_29, KyMonks1A_30, Hermia_31, Killigrew_26
- Track 4 : Paraselene_27, TwoPeat_29, BPBiabs31_29, Alvin_29, Pita2_30, Lopton_29, DrFeelGood_27, PSullivan_30, Gwendoluna_30, Tote_30, JuliaChild_30, Slagathor_29, Molly_29, Swole_30, Zeeculate_28
- Track 5 : Forsytheast_28, Moose_28, SwissCheese_30

- Track 6 : Crispicious1_27, Niza_30
- Track 7 : PascalRango_29, Perseus_30, IgnatiusPatJac_28, BluSpix_29, Kykar_28, Sunshine924_29
- Track 8 : BK1_26, A6_26
- Track 9 : BaconJack_31, Ashballer_30
- Track 10 : DontArgue_27, Goose_28, Eaglepride_29, RhynO_29, Edison31_28, Poompha_27, KittenMittens_27, PeaceMeal1_27, WalterMcMickey_28, Drake94_27, OKCentral2016_28, Kristoff_29, Shapes_32, Trike_26, Chupacabra_28, Rowdy_32, Twister_28, Severus_27, Rebeuca_29, DustyMartin_32
- Track 11 : Topanga_28
- Track 12 : Mabel_29, Aneem_29, Flaverint_29, Joselito_29, TinyTimmy_29, Bowtie_29, Munch_29, Gilberta_29, MaCh_29
- Track 13 : Insomnia_29
- Track 14 : Salz_29, Hutc2_29, Orange_29, Bachome_29, Lucivia_29, Ebony_29, Sham4_29, Jabith_29, Et2Brutus_28, Fibonacci_29, Bud_29, Mulciber_29, Snape_29, Timothy_29, Petersenfast_28
- Track 15 : Pharaoh_29
- Track 16 : Refuge_32
- Track 17 : Zimmer_31
- Track 18 : DarthPhader_30
- Track 19 : Steamy_30
- Track 20 : Phlei_24
- Track 21 : Gail_29, Jeeves_29, Luchador_31
- Track 22 : SororFago_29
- Track 23 : Sunhee_28
- Track 24 : Anon_29
- Track 25 : Boohoo_31, Strosahl_31, Oofda_32, MinecraftSteve_32, Remus_31, Rosalind_31, Battleship_32, JSwag_31, ShayRa_32, Looper_32, Soups_31, Waits_31, KatherineG_31, Nebulosus_31, Anaysia_31, ReMo_31, LastResort_31, Switzerland_31, Epsocamisio_31
- Track 26 : DekHockey33_31
- Track 27 : Nedarya_30
- Track 28 : Lucyedi_30
- Track 29 : EagleEye_31, PainterBoy_30
- Track 30 : 40AC_32
- Track 31 : MyraDee_26
- Track 32 : Kimona_25
- Track 33 : Baehexic_30, NaSiaTalie_29, Centaur_31, Flare16_29, WideWale_31, Piro94_30, Updawg_31, Equemioh13_31, MiculUcigas_29
- Track 34 : WeiHuaDA_35
- Track 35 : TipsytheTRex_28
- Track 36 : Trooper_29
- Track 37 : Bradman_28, MajorMajor_28, Quokka_27
- Track 38 : Benvolio_29, Echild_29
- Track 39 : Iwokeuplikedis_30
- Track 40 : Jerm_31
- Track 41 : Herbertwm_26
- Track 42 : Odin_28
- Track 43 : Naji_32, Kerberos_32, D32_32, StarStuff_32, Tomathan_32, DBQu4n_32, Duplo_32, Pomar16_32, D29_29, Travvers_32
- Track 44 : Pukovnik_31
- Track 45 : GaugeLDP_31, BabyBack_31
- Track 46 : KingCyrus_31, JoshKayV_31, EvilGenius_31, ChipMunk_31

- Track 47 : Jaan_32, Bactobuster_30, Phaded_32, Landor_30
- Track 48 : Kalpine_32, Colin_33
- Track 49 : Leogania_31
- Track 50 : Adzzy_30, Ph8s_30
- Track 51 : BobSwaget_32, Lokk_32
- Track 52 : Retro23_29, Dalmatian_29, Anselm_29, DudeLittle_29
- Track 53 : L5_29
- Track 54 : MissWhite_29
- Track 55 : SweetiePie_29, SnapTap_29
- Track 56 : Trixie_32
- Track 57 : Changeling_31, ArcherNM_31
- Track 58 : Loser_32, RedRock_32
- Track 59 : Malec_30
- Track 60 : Heffalump_31, Georgie2_30, FiringLine_29, QueenBeesly_29, QueenB2_29, SemperFi_31, Power_29, Crucio_29
- Track 61 : VC3_32, ANI8_32, AN3_29, C3_27, AN9_32, VA6_29
- Track 62 : Agape74_31, Turbido_31, Whabigail7_31, Dignity_31, AbbyPaige_31, Buggy_31, Leviathan_31, Smeagan_31
- Track 63 : XianYue_29
- Track 64 : Superchunk_28
- Track 65 : Koduck_29
- Track 66 : EZMoney23_33
- Track 67 : Serenity_28
- Track 68 : TarsusIV_29
- Track 69 : IronMan_31
- Track 70 : CRB1_29, 20ES_29
- Track 71 : NothingSpecial_31
- Track 72 : Fameo_29
- Track 73 : Acolyte_29
- Track 74 : BiancaTri92_31
- Track 75 : NicoleTera_33
- Track 76 : Deloris_30, BengiVuitton_30
- Track 77 : Drake55_31
- Track 78 : Larenn_30
- Track 79 : LadyBird_29
- Track 80 : SwirlSquare_31
- Track 81 : HarryHoudini_31
- Track 82 : LilTurb_31
- Track 83 : Miko_32
- Track 84 : Jsquared_28
- Track 85 : Journey13_27
- Track 86 : Caraxes_28
- Track 87 : Rachaly_32
- Track 88 : Che12_31
- Track 89 : AnnaL29_32
- Track 90 : First_0029
- Track 91 : Anthony_28
- Track 92 : Kinmap_30
- Track 93 : Hercules11_30, LBerry_30, Phranny_31, Phoxy_30, Sabinator_30, PotatoSplit_31, AugsMagnumOpus_32, PurpleHaze_30, KADY_31, ACFishhook_30, JeppNRM_31, Pawn_31, Snickers_30, Mainiac_30, Cullens_30, JHC117_30, Penny1_30, Watson_30, Gemma_30, Stagni_30, LugYA_32, Sabia_30, Lilith_30, AgronaGT15_30, Dieselweasel_30, Vix_30, Malinsilva_32, Anubis_32, Spike509_30,

Manu_31, SoYo_30, Phoebe_30, Grub_30, HaveUMetTed_31, Methuselah_29, Beauxregard13_30, Louie6_30, Bxz2_29, Groupthink_31, PGHhamlin_32, MadMarie_30, StepMih_30, Misomonster_32, EpicPhail_30, Farber_30, Grif_30, Zetzy_29, Aglet_30, Tiffany_30, BreSam8_30, MarQuardt_30, Reba_31, GingkoMaracino_30, Microwolf_30, Pembroke_30, Wooldri_32, Fernando_30, Kalb97_31, MuchMore_32, Marie_30, GtownJaz_30, BuzzBuzz_29, DaHudson_30, LarryKay_30, Colbster_30, Daishi_29, P28Green_30, Soshari_32, Heliosoles_30, Rummer_30, JenCasNa_30, PhishRPhriends_29, OlanP_30, Marius_31, MoneyMay_30, Kalnoky_31, Taurus_30, HashRod_31

- Track 94 : Grum1_30
- Track 95 : Fred313_28, JF2_28, B1_26, Heathen_28, HelDan_28, Kachowdy_28, MK4_28, Marchesa_28, BabyRay_28, Scout_28, JF4_28, Rockstar_28, DropBear_28
- Track 96 : Jobu08_30, SoilDragon_30
- Track 97 : QuinnKiro_28, Texage_28, Veracruz_28, Norbert_28, Todacoro_29, Lambert1_29, Caviar_29, Margo_29, Panamaxus_28, Pocahontas_29, Noella_29, ResDef_29, Hookmount_29, Popcicle_29
- Track 98 : Ollie_30
- Track 99 : Phantastic_28
- Track 100 : Idleandcovert_28, Giroux_28, SaturnRing_28, BlueBird_29, Bugatti_28, Pistachio_29
- Track 101 : BabyJohn_27, Chiqui_27
- Track 102 : Puppy_29, TNguyen7_28
- Track 103 : Isca_28
- Track 104 : MA5_28
- Track 105 : Mundrea_28, Cindaradix_27
- Track 106 : Camperdownii_27, JetBlade_28, KFPoly_28, Phighter1804_28, Nemo27_28, Dhanush_28, Caelakin_28, Alberto7_29, Gadost_28, Druantia_28, Holli_28, Citius_28, Lunsford_29, Skipitt_28, Kingmustik0402_28, Medusa_28, Albee_28, Funston_28, Romney_28, Scamp_28, Eros_28, Burger_27, Floean_28, Taquarus_28, Kyee_28, ChampagnePapi_29, Maverick_28, Bartimeaus_28, Wilbur_28, Arturo_27, Ulysses_27, Chaph_28, Flux_28, Phontbonne_28, Phacado_28, LittleB_28, Sabertooth_28, Shaka_28, OKaNui_29, Millski_27, Cintron_28, TiroTheta9_28, Broseidon_28, Phelipe_28, YoSam321_28, Wizard007_28, NotAPhaseMom_28, Relief_28, CentreCat_28, Thanksgivukkah_28, Kratark_28, Melvin_28, Tinybot_27, LappelDuVide_28, Lemur_28, Eris_27, Blackmoor_28, Houdini22_28, Wander_28, Clarenza_28, DirtyDunning_28, JoongJeon_28, HamSlice_27, Jaykayelowell_28, Bruiser_27, Roosevelt_28, Ruin_28, Koreni_27, Cocoaberry_28, Mazhar510_28, Pipcraft_28, Bombshell_28, Sparxx_28, Baby16_28, Rosa24_27, LochMonster_28, Kremtemulon_28, PeterPeter_28, Annyong_28, Iracema64_29, Iceman_29, NorthStar_28, TinaFeyge_28, Avle17_28, Eapen_28
- Track 107 : Connomayer_28, TygerBlood_28, TroyPia_28, Spino_28, Peaches_28, Deano_28
- Track 108 : LHTSCC_29, LeoAvram_28, ICleared_28, MeeZee_28, Polymorphads_28, Obama12_29, Eagle_27, BubbleTrouble_28, Ohfah_28, Abdiel_27, Lorenzo_28, Palestino_27, Maxo_28, Morrow_28, Nyxis_28, Pumbaa_28, Nebs_28, Commander_28, Kamy_28, Eurydice_28, BellusTerra_28
- Track 109 : Cici_28, PetiteSangsue_28, Badger_28, Bumblebee11_28, Morpher26_28, Backyardigan_28, Achebe_27, Wile_28, Katalie136_28, Shygu2_28, Xena_28, Datway_28, Perplexer_28, AbbysRanger_28
- Track 110 : LittleGuy_28
- Track 111 : Cerulean_29, Happiness_28, SheldonCooper_29, BangNhom_28
- Track 112 : Stasia_29

- Track 113 : Stink_29, AvatarAhPeg_29, Miramae_28
- Track 114 : Noelle_28
- Track 115 : UnionJack_25
- Track 116 : Micasa_25, Milcery_25, George_24, LittleCherry_25, Swirley_25, Dublin_24, Midas2_25, Tarynearal_24, Cuco_25, MarysWell_24, Coog_25
- Track 117 : AgentM_25, Lev2_25, Phlorence_25, Aragog_25, Discoknowium_25
- Track 118 : Archetta_25, PickleBack_25, Bluefalcon_24, ForGetIt_25, Jovo_25, Conspiracy_25
- Track 119 : Jabiru_25
- Track 120 : Theia_23
- Track 121 : Chadwick_26, PetterN_26
- Track 122 : Bonamassa_25, HuhtaEnerson15_25
- Track 123 : Ghoulboy_25, Zolita_24, SydNat_25
- Track 124 : Naca_25, ElTiger69_25, Scorpia_26, Benedict_25, Airmid_25
- Track 125 : Tiger_25
- Track 126 : Jordennis_32, Helmet_33, SuperAwesome_32, Indra_32, Hexamo_32, JewelBug_32, CloudWang3_32, Gladiator_32, Jeffabunny_32, Blue7_32, Neeharika16_32, Wiks_32, Garak_33, Rifter_32, Tucker_32, Hammer_32, Kazan_32, VohminGhazi_32, Lilbunny_32, Koko_32, Candra_32, EricB_32, GreedyLawyer_32, Zaka_32, McFly_32, Isiphiwo_32, SmellyB_32, BABullseye_32, Yokurt_32, Pmask_32, Gruunaga_32, Kipper29_32, Chartreuse_32, Roksolana_32, DaVinci_32, Blinn1_32, Cookiedough_32, Dorothea_32, ToneTone_30, Artemis2UCLA_32, WunderPhul_32, Hoot_32, Zulu_32, SuperCallie99_32, Priamo_32, Newrala_32
- Track 127 : Toro_31, Sheen_30, FlyCatcher_32
- Track 128 : HINdeR_28
- Track 129 : PP_38
- Track 130 : DroogsArmy_29, Timshel_29
- Track 131 : Danforth_24, Dixon_25, Phillis_25, Stephig9_25, Roary_25, Astro_25
- Track 132 : Expelliarmus_24, Smeadley_25, Groundhog_24
- Track 133 : Saintus_25, NearlyHeadless_25
- Track 134 : Jiawan_30, Aliter_31, Pioneer_31, Lilleskat_29, Fayely_31, Myxus_31, Phonnegut_31, EdogawaKiddo_29, HortumSL17_31, Catalina_32, Hanray_30, Qobbit_31, PackMan_31, Phaeder_31, Onglai_30, RyeScarlet_32, Tubs_31, Halex_30, Sachima_29, Beemo_31
- Track 135 : EmyBug_31, Eidsmoe_31, Spouty_31, Priya_31, ExplosioNervosa_31
- Track 136 : Toaka_28
- Track 137 : Vanisoa_28, Rahalelujah_28
- Track 138 : Darrell_31
- Track 139 : Alma_31
- Track 140 : BogosyJay_30
- Track 141 : LoneWolf_30
- Track 142 : SheaKeira_29
- Track 143 : Scherzo_31, Conquerage_31, Ugenie5_28
- Track 144 : Yecey3_30
- Track 145 : Elephantoon_30
- Track 146 : Keziacharles14_29
- Track 147 : Maminiaina_30
- Track 148 : Charm_29, DreamTeam1_29
- Track 149 : Arissanae_29
- Track 150 : Harlequin_24, Rasputin_24, Bonanza_24, Yogi_24, Bryce_24, Yoncess_24, Alpacados_23, BobbyDazzler_24
- Track 151 : Swann_24, Dinger_24, Lillie_24, CosmicSans_24, Alatin_24, Espica_24, Phrankenstein_24, Gollum_24, Hiro_24, Erik_24, Nancinator_24,

RexFury_24, RER2_17, StCroix_24, Bradshaw_24, Rhodalysa_24, Partridge_24, Shuman_24, Krishelle_24, TWAMP_24, Naiad_24, Belenaria_24, UhSalsa_24, AppleCloud_22, Natosaleda_24

- Track 152 : PhailMary_23, Jester_24
- Track 153 : Takoda_24, AngryOrchard_23
- Track 154 : RGL3_17
- Track 155 : Horseradish_20, SweatNTears_21, Yummy_20
- Track 156 : Elliott_19, Typhonmarchy_20, GoldHunter_20, Burnsey_19, Agatha_19, Cozz_19, PsychoKiller_19, Nina_20, Quasar_19, Carsonalex_20, Axym_19, RedBaron_20, MunkgeeRoachy_19, Sopespian_19
- Track 157 : Survivors_21, MaVan_21, Zareef_23, Azira_21, Nibbles_21
- Track 158 : Fribs8_20
- Track 159 : Feastonyeet_18, Vine_20, CherryonLim_20, SummitAcademy_18, Mayweather_20, PotPie_19, SheckWes_18, MAnor_19, BigChungus_18, Pons_19
- Track 160 : Biskit_20, SketchMex_18, MScarn_21, Troje_19, Buttrmlkdreams_19
- Track 161 : Jamzy_22
- Track 162 : Dre3_19, Gibbous_19
- Track 163 : Yakult_20
- Track 164 : AndPeggy_18
- Track 165 : Orla_21
- Track 166 : AikoCarson_18
- Track 167 : Amok_18
- Track 168 : Tolls_21, SteamedHams_21, Yarn_18, BillDoor_21
- Track 169 : Hexbug_21
- Track 170 : KayGee_19, Elinal_20, Lauer_18
- Track 171 : GTE2_17
- Track 172 : Emalyn_18
- Track 173 : Nodigi_21
- Track 174 : Margaret_22, RanchParmCat_22
- Track 175 : Cleo_19
- Track 176 : Button_20
- Track 177 : GiKK_22
- Track 178 : HippoPololi_21
- Track 179 : Volt_56, Ziko_57, Ronaldo_57
- Track 180 : Keelan_52
- Track 181 : Fryberger_54
- Track 182 : Guey18_59
- Track 183 : Poushou_20, Arianna_20, TouchMeNot_20, Colleen_20
- Track 184 : Blarby_21
- Track 185 : Zapner_21, Avani_20, Soul22_20, Demsculpinboyz_20, Che9d_20, Jabbawokkie_22, Yoshi_20
- Track 186 : Juicebox_20
- Track 187 : DS6A_22
- Track 188 : LilSpotty_19
- Track 189 : PSonyx_18

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

The start number called the most often in the published annotations is 49, it was called in 762 of the 878 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• 20ES_29, 40AC_32, A6_26, ACFishhook_30, AFIS_28, AbbyPaige_31, AbbysRanger_28, Abbysshoes_29, Abdiel_27, Abrogate_290, Achebe_27, Acme_30, Adahisdi_29, Aeneas_30, Agaliana_29, Agape74_31, AgentM_25, Aglet_30, AgronaGT15_30, Airmid_25, Ajay_29, Alatin_24, Albee_28, Alberto7_29, Aliter_31, Alpacados_23, Alsfro_32, Altman_30, Alvin_29, Anaysia_31, Anglerfish_29, AngryOrchard_23, AnnaL29_32, Annyong_28, Anon_29, Anselm_29, Anthony_28, Anubis_32, AppleCloud_22, Applejack_28, Aragog_25, Arcanine_29, ArcherNM_31, Archetta_25, Arissanae_29, Arlo_27, Artemis2UCLA_32, Arturo_27, Ashballer_30, Astro_25, Atkinbua_30, AugsMagnumOpus_32, AvatarAhPeg_29, Avle17_28, B1_26, BABullseye_32, BK1_26, BPBiEbs31_29, Baby16_28, BabyBack_31, BabyJohn_27, BabyRay_28, Backyardigan_28, BaconJack_31, Badger_28, Baehexic_30, BangNhom_28, Barriga_28, Bartimeaus_28, Battleship_32, Beatrix_28, Beauxregard13_30, Beemo_31, BeesKnees_29, Belenaria_24, BellusTerra_28, Benedict_25, BengiVuitton_30, Benvolio_29, Bethlehem_28, Bexan_27, Big3_28, BigChungus_18, BigMau_30, BigPaolini_29, Bigfoot_27, BillKnuckles_29, Bircsak_28, Blackmoor_28, Blinn1_32, BluSpix_29, Blue7_32, BlueBird_29, Blue_28, Bluefalcon_24, Bob3_27, BobSwaget_32, BobbyDazzler_24, BogosyJay_30, Bombshell_28, Bonamassa_25, Bonanza_24, Bones_28, Boohoo_31, Bradshaw_24, BreSam8_30, Briton15_30, Broseidon_28, Bruiser_27, Brunns_27, Bryce_24, BubbleTrouble_28, Bugatti_28, Buggy_31, Bumblebee11_28, Burger_27, Burton_29, Button_20, Buttons_30, BuzzBuzz_29, Bxb1_26, Bxz2_29, CRB1_29, CactusRose_27, Caelakin_28, Camperdownii_27, Candra_32, Carlyle_30, Catalina_32, Caviar_29, Centaur_31, CentreCat_28, Cerulean_29, Chadwick_26, ChampagnePapi_29, Chanagan_27, Changeling_31, Chaph_28, Chargerpower_30, Charm_29, Chartreuse_32, CherryonLim_20, ChipMunk_31, Chiqui_27, Chupacabra_28, Ciao_28, Cici_28, Cindaradix_27, Cintron_28, Citius_28, Clarenza_28, CloudWang3_32, Cocoaberry_28, Colbster_30, Colin_33, Commander_28, ConceptII_30, Connomayer_28, Conquerage_31, Conspiracy_25, Coog_25, Cookiedough_32, Corvo_29, CosmicSans_24, Crispicous1_27, Crucio_29, Cuco_25, Cueyllyss_28, Cullens_30, DD5_29, DaHudson_30, DaVinci_32, Daishi_29, Dalmatian_29, Danforth_24, Darrell_31, DarthPhader_30, Datway_28, Deano_28, DekHockey33_31, Deloris_30, Dexes_29, Dhanush_28, Dieselweasel_30, Dignity_31, Dinger_24, DirtyDunning_28, Discoknowium_25, Dixon_25, DontArgue_27, Doom_29, Dorothea_32, DrFeelGood_27, Drake55_31, Drake94_27, DreamCatcher_31, DreamTeam1_29, Dreamboat_29, DroogsArmy_29, DropBear_28, Druantia_28, Dublin_24, DudeLittle_29, Dulcie_27, Dussy_29, DustyMartin_32, Dynamix_29, EagleEye_31, Eagle_27, Eaglepride_29, Eapen_28, Echild_29, Edison31_28, EdogawaKiddo_29, Edtherson_29, Eidsmoe_31, EITiger69_25, Elephantoon_30, Elinal_20, EmyBug_31, EpicPhail_30, Epsocamisio_31, Equemioh13_31, EricB_32, Erik_24, Eris_27, Eros_28, Espica_24, Espresso_28, Euphoria_28, Eurydice_28, EvilGenius_31, Expelliarmus_24, ExplosioNervosa_31, Eyeball_28, Fajezeel_30, Fameo_29, Farber_30, Fascinus_27, Fayely_31, Feastonyeet_18, Fenn_29, Fernando_30, FiringLine_29, First_0029, Flare16_29, Florean_28, Flux_28, FlyCatcher_32, ForGetIt_25, Forsytheast_28, Francis47_28, Fred313_28, Froghopper_29, Funston_28, Fushigi_29, Gadost_28, GageAP_30, Gail_29, Gandalf20_29, Garak_33, GaugeLDP_31, Gemma_30, George_24, Georgie2_30, Ghoulyboy_25, GiKK_22, GingkoMaracino_30, Giroux_28, Gladiator_32, Gollum_24, Gompeii16_28, Goose_28, Graduation_30, GrecoEtereo_30, GreedyLawyer_32, Greg_30, Grif_30, Groundhog_24, Groupthink_31, Grub_30, Grum1_30, Gruunaga_32, GtownJaz_30, Gwendoluna_30, Gyzlar_30, HamSlice_27, Hami1_30, Hammer_32, HanShotFirst_28, Hanray_30,

Happiness_28, Harlequin_24, HarryHoudini_31, HarryOW_29, HashRod_31, HaveUMetTed_31, Heathen_28, Heffalump_31, HelDan_28, Heliosoles_30, Helmet_33, Herbertwm_26, Hercules11_30, Hermia_31, HermioneGrange_28, Hexamo_32, Hexbug_21, Hiro_24, Horex_30, Holli_28, Homines_28, Hookmount_29, Hoot_32, Hope4ever_28, HortumSL17_31, Houdini22_28, HuhtaEnerson15_25, ICleared_28, ILeeKay_30, Iceman_29, Ichabod_29, Idleandcovert_28, IgnatiusPatJac_28, Indra_32, Inyanga_27, Iracema64_29, Isiphiwo_32, Iwokeuplikedis_30, JC27_30, JF2_28, JF4_28, JHC117_30, JSwag_31, Jabiru_25, JackSparrow_29, Jamzy_22, Jasper_29, Jaykayelowell_28, Jeeves_29, Jeffabunny_32, JenCasNa_30, JeppNRM_31, Jerm2_29, Jerm_31, Jester_24, JetBlade_28, JewelBug_32, Jiawan_30, Jobu08_30, JoongJeon_28, Jordennis_32, Jorgensen_28, JoshKayV_31, Jovo_25, JuliaChild_30, KADY_31, KBG_29, KFPoly_28, KSSJEB_28, Kachowdy_28, Kalb97_31, Kalnoky_31, Kalpine_32, Kamy_28, Kanely_29, Katalie136_28, KatherineG_31, KayGee_19, Kazan_32, Kenmech_31, Keziacharles14_29, Killigrew_26, Kimona_25, KingCyrus_31, Kingmustik0402_28, Kinmap_30, Kipper29_32, KittenMittens_27, Koko_32, Koreni_27, Kratak_28, Kremtemulon_28, Krishelle_24, Kristoff_29, Kugel_29, KyMonks1A_30, Kyee_28, Kykar_28, LBerry_30, LHTSCC_29, LadyBird_29, Lambert1_29, Lamina13_28, LappelDuVide_28, Larenn_30, LarryKay_30, LastResort_31, Lauer_18, Lemur_28, LeoAvram_28, Lesedi_27, Lev2_25, Leviathan_31, Licorice_30, LilBib_29, LiITurb_31, Lilbunny_32, Lilith_30, Lilleskat_29, Lillie_24, LittleB_28, LittleCherry_25, LittleGuy_28, LochMonster_28, Lockley_28, Lokk_32, LoneWolf_30, Looper_32, Lopton_29, Lorenzo_28, Loser_32, Louie6_30, Luchador_31, Lucyedi_30, LugYA_32, Lunsford_29, MA5_28, MAnor_19, MK4_28, MPlant7149_27, MadMarie_30, Magnar_28, Magnito_27, Mainiac_30, Makemake_28, Malec_30, Malinsilva_32, Maminiaina_30, Manatee_29, Manu_31, MarQuardt_30, Marcell_28, Marchesa_28, Marchy_27, Margaret_22, Marge_29, Margo_29, Marie_30, Marius_31, Maroc7_27, Marsha_28, MaryBeth_28, MarysWell_24, Maverick_28, Maxo_28, Mayweather_20, Mazhar510_28, McFly_32, McGuire_29, Medusa_28, MeeZee_28, Melvin_28, MetalQZJ_28, Methuselah_29, Micasa_25, Michley_28, Microwolf_30, MiculUcigas_29, Midas2_25, Miko_32, Milcery_25, Millski_27, MinecraftSteve_32, Miramae_28, Misomonster_32, Mkhusele_29, Molly_29, Monet_30, MoneyMay_30, Moose_28, Morpher26_28, Morrow_28, MrGordo_28, Mryolo_27, MuchMore_32, Mule_28, Mundrea_28, Museum_30, MyraDee_26, Myxus_31, NEHalo_28, NaSiaTalie_29, Naca_25, Naiad_24, Naira_29, Nancinator_24, Natosaleda_24, NearlyHeadless_25, Nebs_28, Nebulosus_31, Nedarya_30, Neeharika16_32, Nemo27_28, Nerujay_29, Newrala_32, Nhonho_28, NicoleTera_33, Niza_30, Nodigi_21, Noella_29, Noelle_28, Norbert_28, NorthStar_28, Norz_30, NotAPhaseMom_28, NothingSpecial_31, Nyxis_28, OKCentral2016_28, OKaNui_29, Obama12_29, Ohfah_28, Ohno789_28, OlanP_30, Ollie_30, Onglai_30, Oofda_32, Oogway_27, Orla_21, P28Green_30, PGHhamlin_32, PP_38, PSullivan_30, PacerPaul_28, PackMan_31, PainterBoy_30, Palestino_27, Panamaxus_28, Papez_30, Paphu_27, Paraselene_27, Pari_29, Parliament_27, Partridge_24, PascalRango_29, PattyP_30, Pawn_31, Payneful_28, PeaceMeal1_27, Peaches_28, Pelly_29, Pembroke_30, Penny1_30, Pepe_29, Perplexer_28, Perseus_30, PeterPeter_28, Peterson_31, PetiteSangsue_28, Petp2012_30, Petruccio_29, PetterN_26, Phacado_28, Phaeder_31, PhailMary_23, Pharaoh_29, Phelipe_28, PherrisBueller_29, Phighter1804_28, Phillis_25, PhishRPhriends_29, Phlei_24, Phlorence_25, Phoebe_30, Phonnegut_31, Phontbonne_28, Phoxy_30, Phrankensteen_24, Phranny_31, PhrostyMug_28, PickleBack_25, PinkPlastic_27, Pinto_31, Pioneer_31, Pipcraft_28, Pippin_30, Piro94_30, Pistachio_29, Pita2_30, Pmask_32, Pocahontas_29, Polymorphads_28, Pons_19, Poompha_27, Popcicle_29, PotPie_19, PotatoSplit_31, Power_29,

Priamo_32, Priya_31, ProMouse_27, Pumbaa_28, Puppy_29, PurpleHaze_30, QTRLifeCrisis_28, Qobbit_31, QueenB2_29, QueenBeesly_29, QuinnKiro_28, RER2_17, RGL3_17, Rachaly_32, Rahalelujah_28, Rajelicia_28, RanchParmCat_22, Rasputin_24, ReMo_31, Reba_31, Rebeuca_29, RedRock_32, Refuge_32, Relief_28, Remus_31, ResDef_29, Retro23_29, RexFury_24, Rhodalysa_24, RhynO_29, Rhynn_28, RidgeCB_28, Rifter_32, Ringer_28, Roary_25, Rockstar_28, Rohr_29, Roksolana_32, Romney_28, Roosevelt_28, Rosa24_27, Rosalind_31, Rowdy_32, Rubeus_29, Rufus_29, Ruin_28, Rummer_30, Ruotula_27, Rutherford_30, RyeScarlet_32, STLscum_29, Sabertooth_28, Sabia_30, Sabinator_30, Sachima_29, Sagefire_29, Saintus_25, Sandaddy_27, Sanya_27, SarFire_28, SaturnRing_28, Scamp_28, Scherzo_31, Scorpia_26, Scout_28, Scowl_29, Seabiscuit_30, Seanderson_29, SemperFi_31, Severus_27, Shaka_28, Shapes_32, ShayRa_32, SheaKeira_29, SheckWes_18, Sheen_30, SheldonCooper_29, ShortQueendom_27, Shuman_24, Shygu2_28, Sibs6_30, SkiPole_30, Skipitt_28, Slagathor_29, Smairt_29, Smeadley_25, Smeagan_31, Smeagol_30, SmellyB_32, SnapTap_29, Snazzy_27, Snickers_30, SoYo_30, SoilDragon_30, Solon_28, SororFago_29, Sorpresa_28, Soshari_32, Soups_31, Sparxx_28, Spike509_30, SpikeBT_30, Spino_28, Spouty_31, Squee_29, StCroix_24, Stagni_30, Stasia_29, Steamy_30, StepMih_30, StepHig9_25, StewieG_27, Stink_29, StrongArm_27, Strosahl_31, SummitAcademy_18, Sumter_27, Sunhee_28, Sunshine924_29, SuperAwesome_32, SuperCallie99_32, Swann_24, SweetiePie_29, Swirley_25, SwissCheese_30, Switzer_29, Switzerland_31, Swole_30, SydNat_25, TNguyen7_28, TWAMP_24, Takoda_24, Taquarus_28, Target_31, TarsusIV_29, Tarynearal_24, Tasp14_29, Taurus_30, Teodoridan_26, Texage_28, Thanksgivukkah_28, Theia_23, TheloniousMonk_30, Thor_28, Tiffany_30, Tiger_25, Timshel_29, TinaFeyge_28, Tinybot_27, TiroTheta9_28, Toaka_28, Todacoro_29, ToneTone_30, Topanga_28, Topgun_28, Toro_31, Tote_30, Traft412_30, Treddle_30, Trike_26, Tripl3t_29, Trixie_32, Trooper_29, Trouble_29, TroyPia_28, Tubs_31, Tucker_32, Turbido_31, Turj99_27, Twister_28, TwoPeat_29, TygerBlood_28, U2_28, Ugenie5_28, UhSalsa_24, Ulysses_27, UnionJack_25, Updawg_31, Vanisoa_28, Veracruz_28, Vine_20, Violet_27, Vix_30, VohminGhazi_32, Waits_31, WalterMcMickey_28, Wander_28, Watermelon_30, Watson_30, WeiHuaDA_35, Whabigail7_31, Wheeler_28, WideWale_31, Wiks_32, Wilbur_28, Wile_28, Wilkins_28, Wizard007_28, Wooldri_32, WunderPhul_32, Xena_28, XianYue_29, Yakult_20, Yecey3_30, YoSam321_28, Yogi_24, Yokurt_32, Yoncess_24, Zaka_32, Zeeculate_28, Zephyr_28, Zetsy_29, Zeuska_29, Zimmer_31, Zolita_24, Zulu_32,

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

- Alma_31, Isca_28, Phantastic_28,

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

- AN3_29, AN9_32, AN18_32, Acolyte_29, Adzzy_30, Agatha_19, AikoCarson_18, Amok_18, AndPeggy_18, Aneem_29, Arianna_20, Avani_20, Axym_19, Azira_21, Bachome_29, Bactobuster_30, BiancaTri92_31, BillDoor_21, Biskit_20, Blarby_21, Bowtie_29, Bradman_28, Bud_29, Burnsey_19, Buttrmlkdreams_19, C3_27, Caraxes_28, Carsonalex_20, Che12_31, Che9d_20, Cleo_19, Colleen_20, Cozz_19, D29_29, D32_32, DBQu4n_32, DS6A_22, Demsculpinboyz_20, Dre3_19, Duplo_32, EZMoney23_33, Ebony_29, Elliott_19, Emalyn_18, Et2Brutus_28, Fibonacci_29, Flaverint_29, Fribs8_20, Fryberger_54, GTE2_17, Gibbous_19, Gilberta_29, GoldHunter_20, Guey18_59, HINdeR_28, HippoPololi_21, Horseradish_20, Hutc2_29, Insomnia_29, IronMan_31, Jaan_32, Jabbawokkie_22, Jabith_29, Joselito_29, Journey13_27, Jsquared_28, Juicebox_20, Keelan_52, Kerberos_32,

Koduck_29, L5_29, Landor_30, Leogania_31, LilSpotty_19, Lucivia_29, MScarn_21, MaCh_29, MaVan_21, Mabel_29, MajorMajor_28, MissWhite_29, Mulciber_29, Munch_29, MunkgeeRoachy_19, Naji_32, Nibbles_21, Nina_20, Odin_28, Orange_29, PSonyx_18, Petersenfast_28, Ph8s_30, Phaded_32, Pomar16_32, Poushou_20, PsychoKiller_19, Pukovnik_31, Quasar_19, Quokka_27, RedBaron_20, Ronaldo_57, Salz_29, Serenity_28, Sham4_29, SketchMex_18, Snape_29, Sopespian_19, Soul22_20, StarStuff_32, SteamedHams_21, Superchunk_28, Survivors_21, SweatNTears_21, SwirlSquare_31, Timothy_29, TinyTimmy_29, TopsytheTRex_28, Tolls_21, Tomathan_32, TouchMeNot_20, Travvers_32, Troje_19, Typhonomachy_20, VA6_29, VC3_32, Volt_56, Yarn_18, Yoshi_20, Yummy_20, Zapner_21, Zareef_23, Ziko_57,

Summary by start number:

Start 21:

- Found in 10 of 949 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Insomnia_29 (A11),

Start 24:

- Found in 41 of 949 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Serenity_28 (A2),

Start 31:

- Found in 6 of 949 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Alma_31 (A9),

Start 35:

- Found in 1 of 949 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_19 (singleton),

Start 38:

- Found in 1 of 949 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phantastic_28 (A3),

Start 40:

- Found in 1 of 949 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A_22 (singleton),

Start 42:

- Found in 23 of 949 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 878

- Called 4.3% of time when present
- Phage (with cluster) where this start called: Isca_28 (A3),

Start 44:

- Found in 1 of 949 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keelan_52 (DP),

Start 45:

- Found in 21 of 949 (2.2%) of genes in pham
- Manual Annotations of this start: 11 of 878
- Called 52.4% of time when present
- Phage (with cluster) where this start called: Amok_18 (CT), AndPeggy_18 (CT), Biskit_20 (CT), Buttrmlkdreams_19 (CT), Guey18_59 (DP), MScarn_21 (CT), Ronaldo_57 (DP), SketchMex_18 (CT), Troje_19 (CT), Volt_56 (DP), Ziko_57 (DP),

Start 46:

- Found in 1 of 949 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fryberger_54 (DP),

Start 47:

- Found in 6 of 949 (0.6%) of genes in pham
- Manual Annotations of this start: 6 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_30 (A2), HINdeR_28 (A7), IronMan_31 (A2), Jaan_32 (A2), Landor_30 (A2), Phaded_32 (A2),

Start 48:

- Found in 4 of 949 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 878
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BiancaTri92_31 (A2), Leogania_31 (A2), Pukovnik_31 (A2),

Start 49:

- Found in 817 of 949 (86.1%) of genes in pham
- Manual Annotations of this start: 762 of 878
- Called 99.6% of time when present
- Phage (with cluster) where this start called: 20ES_29 (A2), 40AC_32 (A17), A6_26 (A1), ACFishhook_30 (A3), AFIS_28 (A1), AbbyPaige_31 (A2), AbbysRanger_28 (A4), Abbyshoes_29 (A1), Abdiel_27 (A4), Abrogate_290 (A1), Achebe_27 (A4), Acme_30 (A1), Adahisdi_29 (A1), Aeneas_30 (A1), Agaliana_29 (A1), Agape74_31 (A2), AgentM_25 (A5), Aglet_30 (A3), AgronaGT15_30 (A3), Airmid_25 (A5), Ajay_29 (A1), Alatin_24 (CA), Albee_28 (A4), Alberto7_29 (A4), Aliter_31 (A9), Alpacados_23 (CA), Alsfro_32 (A1), Altman_30 (A1), Alvin_29 (A1), Anaysia_31 (A15), Anglerfish_29 (A1), AngryOrchard_23 (CA), AnnaL29_32 (A2), Annyong_28 (A4), Anon_29 (A15), Anselm_29 (A2), Anthony_28 (A20), Anubis_32 (A3), AppleCloud_22 (CA), Applejack_28 (A1), Aragog_25 (A5), Arcanine_29 (A1), ArcherNM_31 (A2), Archetta_25 (A5), Arissanae_29 (A9), Arlo_27 (A1), Artemis2UCLA_32 (A6), Arturo_27 (A4), Ashballer_30 (A1), Astro_25 (A8), Atkinbua_30 (A1),

AugsMagnumOpus_32 (A3), AvatarAhPeg_29 (A4), Avle17_28 (A4), B1_26 (A3), BABullseye_32 (A6), BK1_26 (A1), BPBiebs31_29 (A1), Baby16_28 (A4), BabyBack_31 (A2), BabyJohn_27 (A3), BabyRay_28 (A3), Backyardigan_28 (A4), BaconJack_31 (A1), Badger_28 (A4), Baehexic_30 (A2), BangNhom_28 (A4), Barriga_28 (A1), Bartimeaus_28 (A4), Battleship_32 (A15), Beatrix_28 (A1), Beauxregard13_30 (A3), Beemo_31 (A9), BeesKnees_29 (A1), Belenaria_24 (CA), BellusTerra_28 (A4), Benedict_25 (A5), BengiVuitton_30 (A2), Benvolio_29 (A2), Bethlehem_28 (A1), Bexan_27 (A1), Big3_28 (A1), BigChungus_18 (CT), BigMau_30 (A1), BigPaolini_29 (A1), Bigfoot_27 (A1), BillKnuckles_29 (A1), Bircsak_28 (A1), Blackmoor_28 (A4), Blinn1_32 (A6), BluSpix_29 (A1), Blue7_32 (A6), BlueBird_29 (A3), Blue_28 (A1), Bluefalcon_24 (A5), Bob3_27 (A1), BobSwaget_32 (A2), BobbyDazzler_24 (CA), BogosyJay_30 (A9), Bombshell_28 (A4), Bonamassa_25 (A5), Bonanza_24 (CA), Bones_28 (A1), Boohoo_31 (A15), Bradshaw_24 (CA), BreSam8_30 (A3), Briton15_30 (A1), Broseidon_28 (A4), Bruiser_27 (A4), Brunns_27 (A1), Bryce_24 (CA), BubbleTrouble_28 (A4), Bugatti_28 (A3), Bugsy_31 (A2), Bumblebee11_28 (A4), Burger_27 (A4), Burton_29 (A1), Button_20 (CT), Buttons_30 (A1), BuzzBuzz_29 (A3), Bxb1_26 (A1), Bxz2_29 (A3), CRB1_29 (A2), CactusRose_27 (A1), Caelakin_28 (A4), Camperdownii_27 (A4), Candra_32 (A6), Carlyle_30 (A1), Catalina_32 (A9), Caviar_29 (A3), Centaur_31 (A2), CentreCat_28 (A4), Cerulean_29 (A4), Chadwick_26 (A5), ChampagnePapi_29 (A4), Chanagan_27 (A1), Changeling_31 (A2), Chaph_28 (A4), Chargerpower_30 (A), Charm_29 (A9), Chartreuse_32 (A6), CherryonLim_20 (CT), ChipMunk_31 (A2), Chiqui_27 (A3), Chupacabra_28 (A10), Ciao_28 (A1), Cici_28 (A4), Cindaradix_27 (A4), Cintron_28 (A4), Citius_28 (A4), Clarenza_28 (A4), CloudWang3_32 (A6), Cocoaberry_28 (A4), Colbster_30 (A3), Colin_33 (A2), Commander_28 (A4), ConceptII_30 (A1), Connomayer_28 (A4), Conquerage_31 (A9), Conspiracy_25 (A5), Coog_25 (A5), Cookiedough_32 (A6), Corvo_29 (A1), CosmicSans_24 (CA), Crispicous1_27 (A1), Crucio_29 (A2), Cuco_25 (A5), Cueyllyss_28 (A1), Cullens_30 (A3), DD5_29 (A1), DaHudson_30 (A3), DaVinci_32 (A6), Daishi_29 (A3), Dalmatian_29 (A2), Danforth_24 (A8), Darrell_31 (A9), DarthPhader_30 (A12), Datway_28 (A4), Deano_28 (A4), DekHockey33_31 (A15), Deloris_30 (A2), Dexes_29 (A1), Dhanush_28 (A4), Dieselweasel_30 (A3), Dignity_31 (A2), Dinger_24 (CA), DirtyDunning_28 (A4), Discoknowium_25 (A5), Dixon_25 (A8), DontArgue_27 (A10), Doom_29 (A1), Dorothea_32 (A6), DrFeelGood_27 (A1), Drake55_31 (A2), Drake94_27 (A10), DreamCatcher_31 (A1), DreamTeam1_29 (A9), Dreamboat_29 (A1), DroogsArmy_29 (A7), DropBear_28 (A3), Druantia_28 (A4), Dublin_24 (A5), DudeLittle_29 (A2), Dulcie_27 (A1), Dussy_29 (A1), DustyMartin_32 (A10), Dynamix_29 (A1), EagleEye_31 (A16), Eagle_27 (A4), Eaglepride_29 (A10), Eapen_28 (A4), Echild_29 (A2), Edison31_28 (A10), EdogawaKiddo_29 (A9), Edtherson_29 (A1), Eidsmoe_31 (A9), ElTiger69_25 (A5), Elephantoon_30 (A9), Elinal_20 (CT), EmyBug_31 (A9), EpicPhail_30 (A3), Epsocamisio_31 (A15), Equemioh13_31 (A2), EricB_32 (A6), Erik_24 (CA), Eris_27 (A4), Eros_28 (A4), Espica_24 (CA), Espresso_28 (A1), Euphoria_28 (A1), Eurydice_28 (A4), EvilGenius_31 (A2), Expelliarmus_24 (A8), ExplosioNervosa_31 (A9), Eyeball_28 (A1), Fajezeel_30 (A1), Fameo_29 (A2), Farber_30 (A3), Fascinus_27 (A1), Fayely_31 (A9), Feastonyeet_18 (CT), Fenn_29 (A1), Fernando_30 (A3), FiringLine_29 (A2), First_0029 (A2), Flare16_29 (A2), Florean_28 (A4), Flux_28 (A4), FlyCatcher_32 (A7), ForGetIt_25 (A5), Forsytheast_28 (A1), Francis47_28 (A1), Fred313_28 (A3), Froghopper_29 (A1), Funston_28 (A4), Fushigi_29 (A1), Gadost_28 (A4), GageAP_30 (A1), Gail_29 (A14), Gandalf20_29 (A1), Garak_33 (A6), GaugeLDP_31 (A2), Gemma_30 (A3), George_24 (A5), Georgie2_30 (A2), Ghoulboy_25 (A5), GiKK_22 (CT), GingkoMaracino_30 (A3), Giroux_28 (A3), Gladiator_32 (A6), Gollum_24 (CA), Gompeii16_28 (A1), Goose_28 (A10),

Graduation_30 (A1), GrecoEtereo_30 (A1), GreedyLawyer_32 (A6), Greg_30 (A1), Grif_30 (A3), Groundhog_24 (A8), Groupthink_31 (A3), Grub_30 (A3), Grum1_30 (A3), Gruunaga_32 (A6), GtownJaz_30 (A3), Gwendoluna_30 (A1), Gyzlar_30 (A1), HamSlice_27 (A4), Hami1_30 (A1), Hammer_32 (A6), HanShotFirst_28 (A1), Hanray_30 (A9), Happiness_28 (A4), Harlequin_24 (CA), HarryHoudini_31 (A2), HarryOW_29 (A1), HashRod_31 (A3), HaveUMetTed_31 (A3), Heathen_28 (A3), Heffalump_31 (A2), HelDan_28 (A3), Heliosoles_30 (A3), Helmet_33 (A6), Herbertwm_26 (A2), Hercules11_30 (A3), Hermia_31 (A1), HermioneGrange_28 (A1), Hexamo_32 (A6), Hexbug_21 (CT), Hiro_24 (CA), Horex_30 (A9), Holli_28 (A4), Homines_28 (A1), Hookmount_29 (A3), Hoot_32 (A6), Hope4ever_28 (A1), HortumSL17_31 (A9), Houdini22_28 (A4), HuhtaEnerson15_25 (A5), ICleared_28 (A4), ILeeKay_30 (A1), Iceman_29 (A4), Ichabod_29 (A1), Idleandcovert_28 (A3), IgnatiusPatJac_28 (A1), Indra_32 (A6), Inyanga_27 (A1), Iracema64_29 (A4), Isiphiwo_32 (A6), Iwokeuplikedis_30 (A2), JC27_30 (A1), JF2_28 (A3), JF4_28 (A3), JHC117_30 (A3), JSwag_31 (A15), Jabiru_25 (A5), JackSparrow_29 (A1), Jamzy_22 (CT), Jasper_29 (A1), Jaykayelowell_28 (A4), Jeeves_29 (A14), Jeffabunny_32 (A6), JenCasNa_30 (A3), JeppNRM_31 (A3), Jerm2_29 (A1), Jerm_31 (A2), Jester_24 (CA), JetBlade_28 (A4), JewelBug_32 (A6), Jiawan_30 (A9), Jobu08_30 (A3), JoongJeon_28 (A4), Jordennis_32 (A6), Jorgensen_28 (A1), JoshKayV_31 (A2), Jovo_25 (A5), JuliaChild_30 (A1), KADY_31 (A3), KBG_29 (A1), KFPoly_28 (A4), KSSJEB_28 (A1), Kachowdy_28 (A3), Kalb97_31 (A3), Kalnoky_31 (A3), Kalpine_32 (A2), Kamy_28 (A4), Kanely_29 (A1), Katalie136_28 (A4), KatherineG_31 (A15), KayGee_19 (CT), Kazan_32 (A6), Kenmech_31 (A1), Keziacharles14_29 (A9), Killigrew_26 (A1), Kimona_25 (A19), KingCyrus_31 (A2), Kingmustik0402_28 (A4), Kinmap_30 (A21), Kipper29_32 (A6), KittenMittens_27 (A10), Koko_32 (A6), Koreni_27 (A4), Kratak_28 (A4), Kremtemulon_28 (A4), Krishelle_24 (CA), Kristoff_29 (A10), Kugel_29 (A1), KyMonks1A_30 (A1), Kye_28 (A4), Kykar_28 (A1), LBerry_30 (A3), LHTSCC_29 (A4), LadyBird_29 (A2), Lambert1_29 (A3), Lamina13_28 (A1), LappelDuVide_28 (A4), Larenn_30 (A2), LarryKay_30 (A3), LastResort_31 (A15), Lauer_18 (CT), Lemur_28 (A4), LeoAvram_28 (A4), Lesedi_27 (A1), Lev2_25 (A5), Leviathan_31 (A2), Licorice_30 (A1), LilBib_29 (A1), LiITurb_31 (A2), Lilbunny_32 (A6), Lilith_30 (A3), Lilleskat_29 (A9), Lillie_24 (CA), LittleB_28 (A4), LittleCherry_25 (A5), LittleGuy_28 (A4), LochMonster_28 (A4), Lockley_28 (A1), Lokk_32 (A2), LoneWolf_30 (A9), Looper_32 (A15), Lopton_29 (A1), Lorenzo_28 (A4), Loser_32 (A2), Louie6_30 (A3), Luchador_31 (A14), Lucyedi_30 (A16), LugYA_32 (A3), Lunsford_29 (A4), MA5_28 (A3), MAnor_19 (CT), MK4_28 (A3), MPlant7149_27 (A1), MadMarie_30 (A3), Magnar_28 (A1), Magnito_27 (A1), Mainiac_30 (A3), Makemake_28 (A1), Malec_30 (A2), Malinsilva_32 (A3), Maminiaina_30 (A9), Manatee_29 (A1), Manu_31 (A3), MarQuardt_30 (A3), Marcell_28 (A1), Marchesa_28 (A3), Marchy_27 (A1), Margaret_22 (CT), Marge_29 (A1), Margo_29 (A3), Marie_30 (A3), Marius_31 (A3), Maroc7_27 (A1), Marsha_28 (A1), MaryBeth_28 (A1), MarysWell_24 (A5), Maverick_28 (A4), Maxo_28 (A4), Mayweather_20 (CT), Mazhar510_28 (A4), McFly_32 (A6), McGuire_29 (A1), Medusa_28 (A4), MeeZee_28 (A4), Melvin_28 (A4), MetalQZJ_28 (A1), Methuselah_29 (A3), Micasa_25 (A5), Michley_28 (A1), Microwolf_30 (A3), MiculUcigas_29 (A2), Midas2_25 (A5), Miko_32 (A2), Milcery_25 (A5), Millski_27 (A4), MinecraftSteve_32 (A15), Miramae_28 (A4), Misomonster_32 (A3), Mkhuseleli_29 (A1), Molly_29 (A1), Monet_30 (A1), MoneyMay_30 (A3), Moose_28 (A1), Morpher26_28 (A4), Morrow_28 (A4), MrGordo_28 (A1), Mryolo_27 (A1), MuchMore_32 (A3), Mule_28 (A1), Mundrea_28 (A4), Museum_30 (A1), MyraDee_26 (A18), Myxus_31 (A9), NEHalo_28 (A1), NaSiaTalie_29 (A2), Naca_25 (A5), Naiad_24 (CA), Naira_29 (A1), Nancinator_24 (CA), Natosaleda_24 (CA), NearlyHeadless_25 (A8), Nebs_28 (A4), Nebulosus_31 (A15), Nedarya_30 (A15),

Neeharika16_32 (A6), Nemo27_28 (A4), Nerujay_29 (A1), Newrala_32 (A6), Nhonho_28 (A1), NicoleTera_33 (A2), Niza_30 (A1), Nodigi_21 (CT), Noella_29 (A3), Noelle_28 (A4), Norbert_28 (A3), NorthStar_28 (A4), Norz_30 (A1), NotAPhaseMom_28 (A4), NothingSpecial_31 (A2), Nyxis_28 (A4), OKCentral2016_28 (A10), OKaNui_29 (A4), Obama12_29 (A4), Ohfah_28 (A4), Ohno789_28 (A1), OlanP_30 (A3), Ollie_30 (A3), Onglai_30 (A9), Oofda_32 (A15), Oogway_27 (A1), Orla_21 (CT), P28Green_30 (A3), PGHhamlin_32 (A3), PP_38 (A7), PSullivan_30 (A1), PacerPaul_28 (A1), PackMan_31 (A9), PainterBoy_30 (A16), Palestino_27 (A4), Panamaxus_28 (A3), Papez_30 (A1), Paphu_27 (A1), Paraselene_27 (A1), Pari_29 (A1), Parliament_27 (A1), Partridge_24 (CA), PascalRango_29 (A1), PattyP_30 (A1), Pawn_31 (A3), Payneful_28 (A1), PeaceMeal1_27 (A10), Peaches_28 (A4), Pelly_29 (A1), Pembroke_30 (A3), Penny1_30 (A3), Pepe_29 (A1), Perplexer_28 (A4), Perseus_30 (A1), PeterPeter_28 (A4), Peterson_31 (A1), PetiteSangsue_28 (A4), Petp2012_30 (A1), Petruccio_29 (A1), PetterN_26 (A5), Phacado_28 (A4), Phaeder_31 (A9), PhailMary_23 (CA), Pharaoh_29 (A12), Phelipe_28 (A4), PherrisBueller_29 (A1), Phighter1804_28 (A4), Phillis_25 (A8), PhishRPhriends_29 (A3), Phlei_24 (A13), Phlorence_25 (A5), Phoebe_30 (A3), Phonnegut_31 (A9), Phontbonne_28 (A4), Phoxy_30 (A3), Phrankenstien_24 (CA), Phranny_31 (A3), PhrostyMug_28 (A1), PickleBack_25 (A5), PinkPlastic_27 (A1), Pinto_31 (A1), Pioneer_31 (A9), Pipcraft_28 (A4), Pippin_30 (A1), Piro94_30 (A2), Pistachio_29 (A3), Pita2_30 (A1), Pmask_32 (A6), Pocahontas_29 (A3), Polymorphads_28 (A4), Pons_19 (CT), Poompha_27 (A10), Popcicle_29 (A3), PotPie_19 (CT), PotatoSplit_31 (A3), Power_29 (A2), Priamo_32 (A6), Priya_31 (A9), ProMouse_27 (A1), Pumbaa_28 (A4), Puppy_29 (A3), PurpleHaze_30 (A3), QTRlifeCrisis_28 (A1), Qobbit_31 (A9), QueenB2_29 (A2), QueenBeesly_29 (A2), QuinnKiro_28 (A3), RER2_17 (CA), RGL3_17 (CA), Rachaly_32 (A2), Rahalelujah_28 (A9), Rajelicia_28 (A1), RanchParmCat_22 (CT), Rasputin_24 (CA), ReMo_31 (A15), Reba_31 (A3), Rebeuca_29 (A10), RedRock_32 (A2), Refuge_32 (A12), Relief_28 (A4), Remus_31 (A15), ResDef_29 (A3), Retro23_29 (A2), RexFury_24 (CA), Rhodalysa_24 (CA), RhynO_29 (A10), Rhynn_28 (A1), RidgeCB_28 (A1), Rifter_32 (A6), Ringer_28 (A1), Roary_25 (A8), Rockstar_28 (A3), Rohr_29 (A1), Roksolana_32 (A6), Romney_28 (A4), Roosevelt_28 (A4), Rosa24_27 (A4), Rosalind_31 (A15), Rowdy_32 (A10), Rubeus_29 (A1), Rufus_29 (A1), Ruin_28 (A4), Rummer_30 (A3), Ruotula_27 (A1), Rutherford_30 (A1), RyeScarlet_32 (A9), STLscum_29 (A1), Sabertooth_28 (A4), Sabia_30 (A3), Sabinator_30 (A3), Sachima_29 (A9), Sagefire_29 (A1), Saintus_25 (A8), Sandaddy_27 (A1), Sanya_27 (A1), SarFire_28 (A1), SaturnRing_28 (A3), Scamp_28 (A4), Scherzo_31 (A9), Scorpia_26 (A5), Scout_28 (A3), Scowl_29 (A1), Seabiscuit_30 (A1), Seanderson_29 (A1), SemperFi_31 (A2), Severus_27 (A10), Shaka_28 (A4), Shapes_32 (A10), ShayRa_32 (A15), SheaKeira_29 (A9), SheckWes_18 (CT), Sheen_30 (A7), SheldonCooper_29 (A4), ShortQueendom_27 (A1), Shuman_24 (CA), Shygu2_28 (A4), Sibs6_30 (A1), SkiPole_30 (A1), Skipitt_28 (A4), Slagathor_29 (A1), Smairt_29 (A1), Smeadley_25 (A8), Smeagan_31 (A2), Smeagol_30 (A1), SmellyB_32 (A6), SnapTap_29 (A2), Snazzy_27 (A1), Snickers_30 (A3), SoYo_30 (A3), SoilDragon_30 (A3), Solon_28 (A1), SororFago_29 (A14), Sorpresa_28 (A1), Soshari_32 (A3), Soups_31 (A15), Sparxx_28 (A4), Spike509_30 (A3), SpikeBT_30 (A1), Spino_28 (A4), Spouty_31 (A9), Squee_29 (A1), StCroix_24 (CA), Stagni_30 (A3), Stasia_29 (A4), Steamy_30 (A12), StepMih_30 (A3), Stephig9_25 (A8), StewieG_27 (A1), Stink_29 (A4), StrongArm_27 (A1), Strosahl_31 (A15), SummitAcademy_18 (CT), Sumter_27 (A1), Sunhee_28 (A14), Sunshine924_29 (A1), SuperAwesome_32 (A6), SuperCallie99_32 (A6), Swann_24 (CA), SweetiePie_29 (A2), Swirley_25 (A5), SwissCheese_30 (A1), Switzer_29 (A1), Switzerland_31 (A15), Swole_30 (A1), SydNat_25 (A5),

TNguyen7_28 (A3), TWAMP_24 (CA), Takoda_24 (CA), Taquarus_28 (A4), Target_31 (A1), TarsusIV_29 (A2), Tarynearal_24 (A5), Tasp14_29 (A1), Taurus_30 (A3), Teodoridan_26 (A1), Texage_28 (A3), Thanksgivukkah_28 (A4), Theia_23 (A5), TheloniousMonk_30 (A1), Thor_28 (A1), Tiffany_30 (A3), Tiger_25 (A5), Timshel_29 (A7), TinaFeyge_28 (A4), Tinybot_27 (A4), TiroTheta9_28 (A4), Toaka_28 (A9), Todacoro_29 (A3), ToneTone_30 (A6), Topanga_28 (A10), Topgun_28 (A1), Toro_31 (A7), Tote_30 (A1), Traft412_30 (A1), Treddle_30 (A1), Trike_26 (A10), Tripl3t_29 (A1), Trixie_32 (A2), Trooper_29 (A2), Trouble_29 (A1), TroyPia_28 (A4), Tubs_31 (A9), Tucker_32 (A6), Turbido_31 (A2), Turj99_27 (A1), Twister_28 (A10), TwoPeat_29 (A1), TygerBlood_28 (A4), U2_28 (A1), Ugenie5_28 (A9), UhSalsa_24 (CA), Ulysses_27 (A4), UnionJack_25 (A5), Updawg_31 (A2), Vanisoa_28 (A9), Veracruz_28 (A3), Vine_20 (CT), Violet_27 (A1), Vix_30 (A3), VohminGhazi_32 (A6), Waits_31 (A15), WalterMcMickey_28 (A10), Wander_28 (A4), Watermelon_30 (A1), Watson_30 (A3), WeiHuaDA_35 (A2), Whabigail7_31 (A2), Wheeler_28 (A1), WideWale_31 (A2), Wiks_32 (A6), Wilbur_28 (A4), Wile_28 (A4), Wilkins_28 (A1), Wizard007_28 (A4), Wooldri_32 (A3), WunderPhul_32 (A6), Xena_28 (A4), XianYue_29 (A2), Yakult_20 (CT), Yecey3_30 (A9), YoSam321_28 (A4), Yogi_24 (CA), Yokurt_32 (A6), Yoncess_24 (CA), Zaka_32 (A6), Zeeculate_28 (A1), Zephyr_28 (A1), Zetzy_29 (A3), Zeuska_29 (A1), Zimmer_31 (A12), Zolita_24 (A5), Zulu_32 (A6),

Start 50:

- Found in 26 of 949 (2.7%) of genes in pham
- Manual Annotations of this start: 23 of 878
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Aneem_29 (A11), Bachome_29 (A11), Bowtie_29 (A11), Bud_29 (A11), EZMoney23_33 (A2), Ebony_29 (A11), Et2Brutus_28 (A11), Fibonacci_29 (A11), Flaverint_29 (A11), Gilberta_29 (A11), Hutc2_29 (A11), Jabith_29 (A11), Joselito_29 (A11), Lucivia_29 (A11), MaCh_29 (A11), Mabel_29 (A11), Mulciber_29 (A11), Munch_29 (A11), Orange_29 (A11), Petersenfast_28 (A11), Salz_29 (A11), Sham4_29 (A11), Snape_29 (A11), Timothy_29 (A11), TinyTimmy_29 (A11),

Start 51:

- Found in 28 of 949 (3.0%) of genes in pham
- Manual Annotations of this start: 21 of 878
- Called 96.4% of time when present
- Phage (with cluster) where this start called: AN3_29 (A2), AN9_32 (A2), ANI8_32 (A2), Acolyte_29 (A2), Bradman_28 (A2), C3_27 (A2), D29_29 (A2), D32_32 (A2), DBQu4n_32 (A2), Duplo_32 (A2), Journey13_27 (A2), Jsquared_28 (A2), Kerberos_32 (A2), Koduck_29 (A2), L5_29 (A2), MajorMajor_28 (A2), MissWhite_29 (A2), Naji_32 (A2), Pomar16_32 (A2), Quokka_27 (A2), StarStuff_32 (A2), SwirlSquare_31 (A2), TopsytheTRex_28 (A2), Tomathan_32 (A2), Travvers_32 (A2), VA6_29 (A2), VC3_32 (A2),

Start 52:

- Found in 41 of 949 (4.3%) of genes in pham
- Manual Annotations of this start: 25 of 878
- Called 82.9% of time when present
- Phage (with cluster) where this start called: Agatha_19 (CT), AikoCarson_18 (CT), Axym_19 (CT), Azira_21 (CT), BillDoor_21 (CT), Burnsey_19 (CT), Carsonalex_20 (CT), Cleo_19 (CT), Cozz_19 (CT), Dre3_19 (CT), Elliott_19 (CT), Emalyn_18 (CT), Fribs8_20 (CT), GTE2_17 (CT), Gibbous_19 (CT), GoldHunter_20 (CT),

HippoPololi_21 (CT), Horseradish_20 (CT), MaVan_21 (CT), MunkgeeRoachy_19 (CT), Nibbles_21 (CT), Nina_20 (CT), PsychoKiller_19 (CT), Quasar_19 (CT), RedBaron_20 (CT), Sopespian_19 (CT), SteamedHams_21 (CT), Survivors_21 (CT), SweatNTears_21 (CT), Tolls_21 (CT), Typhonmarchy_20 (CT), Yarn_18 (CT), Yummy_20 (CT), Zareef_23 (CT),

Start 53:

- Found in 6 of 949 (0.6%) of genes in pham
- Manual Annotations of this start: 5 of 878
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Adzzy_30 (A2), Che12_31 (A2), Odin_28 (A2), Ph8s_30 (A2), Superchunk_28 (A2),

Start 54:

- Found in 8 of 949 (0.8%) of genes in pham
- Manual Annotations of this start: 5 of 878
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Arianna_20 (EO), Colleen_20 (EO), PSonyx_18 (singleton), Poushou_20 (EO), TouchMeNot_20 (EO),

Start 55:

- Found in 9 of 949 (0.9%) of genes in pham
- Manual Annotations of this start: 8 of 878
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_20 (F2), Blarby_21 (F), Che9d_20 (F2), Demsculpinboyz_20 (F2), Jabbawokkie_22 (F2), Juicebox_20 (singleton), Soul22_20 (F2), Yoshi_20 (F2), Zapner_21 (F2),

Start 66:

- Found in 390 of 949 (41.1%) of genes in pham
- No Manual Annotations of this start.
- Called 0.3% of time when present
- Phage (with cluster) where this start called: Caraxes_28 (A2),

Summary by clusters:

There are 29 clusters represented in this pham: singleton, DP, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, A, EO, F, CA, CT, A20, A21, F2,

Info for manual annotations of cluster A:

- Start number 49 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 49 was manually annotated 208 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 49 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 21 was manually annotated 1 time for cluster A11.
- Start number 50 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 49 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 49 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 49 was manually annotated 21 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 49 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 49 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 49 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 24 was manually annotated 1 time for cluster A2.
- Start number 47 was manually annotated 5 times for cluster A2.
- Start number 48 was manually annotated 3 times for cluster A2.
- Start number 49 was manually annotated 67 times for cluster A2.
- Start number 51 was manually annotated 21 times for cluster A2.
- Start number 53 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 49 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 38 was manually annotated 1 time for cluster A3.
- Start number 42 was manually annotated 1 time for cluster A3.
- Start number 49 was manually annotated 110 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 49 was manually annotated 137 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 49 was manually annotated 38 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 49 was manually annotated 42 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 47 was manually annotated 1 time for cluster A7.
- Start number 49 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 49 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 31 was manually annotated 1 time for cluster A9.
- Start number 49 was manually annotated 34 times for cluster A9.

Info for manual annotations of cluster CA:

- Start number 49 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster CT:

- Start number 45 was manually annotated 7 times for cluster CT.
- Start number 49 was manually annotated 21 times for cluster CT.
- Start number 52 was manually annotated 25 times for cluster CT.

Info for manual annotations of cluster DP:

- Start number 44 was manually annotated 1 time for cluster DP.
- Start number 45 was manually annotated 4 times for cluster DP.
- Start number 46 was manually annotated 1 time for cluster DP.

Info for manual annotations of cluster EO:

- Start number 54 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster F2:

- Start number 55 was manually annotated 7 times for cluster F2.

Gene Information:

Gene: 20ES_29 Start: 22015, Stop: 22458, Start Num: 49

Candidate Starts for 20ES_29:

(3, 21784), (10, 21841), (13, 21880), (23, 21970), (Start: 24 @21976 has 1 MA's), (Start: 49 @22015 has 762 MA's), (66, 22090), (79, 22150), (103, 22282), (105, 22303), (125, 22381), (135, 22408), (140, 22438), (143, 22450),

Gene: 40AC_32 Start: 24208, Stop: 24654, Start Num: 49

Candidate Starts for 40AC_32:

(4, 23980), (13, 24073), (Start: 24 @24169 has 1 MA's), (Start: 49 @24208 has 762 MA's), (66, 24283), (75, 24322), (79, 24343), (90, 24385), (103, 24475), (105, 24496), (125, 24574), (135, 24601), (140, 24631),

Gene: A6_26 Start: 22501, Stop: 22947, Start Num: 49

Candidate Starts for A6_26:

(Start: 49 @22501 has 762 MA's), (57, 22513), (73, 22615), (74, 22618), (85, 22660), (86, 22666), (87, 22675), (133, 22894),

Gene: ACFishhook_30 Start: 22360, Stop: 22803, Start Num: 49

Candidate Starts for ACFishhook_30:

(Start: 49 @22360 has 762 MA's), (65, 22429), (70, 22456), (87, 22528), (105, 22648), (112, 22678), (125, 22726), (142, 22795),

Gene: AFIS_28 Start: 23044, Stop: 23490, Start Num: 49

Candidate Starts for AFIS_28:

(Start: 49 @23044 has 762 MA's), (73, 23158), (74, 23161), (85, 23203), (86, 23209), (133, 23437),

Gene: AN3_29 Start: 22012, Stop: 22455, Start Num: 51

Candidate Starts for AN3_29:

(Start: 51 @22012 has 21 MA's), (66, 22087), (79, 22147), (103, 22279), (112, 22330), (125, 22378),

Gene: AN9_32 Start: 22000, Stop: 22443, Start Num: 51

Candidate Starts for AN9_32:

(Start: 51 @22000 has 21 MA's), (66, 22075), (79, 22135), (103, 22267), (112, 22318), (125, 22366),

Gene: ANI8_32 Start: 22000, Stop: 22443, Start Num: 51

Candidate Starts for ANI8_32:

(Start: 51 @22000 has 21 MA's), (66, 22075), (79, 22135), (103, 22267), (112, 22318), (125, 22366),

Gene: AbbyPaige_31 Start: 22486, Stop: 22932, Start Num: 49

Candidate Starts for AbbyPaige_31:

(1, 22174), (5, 22264), (Start: 24 @22447 has 1 MA's), (Start: 49 @22486 has 762 MA's), (66, 22561), (79, 22621), (103, 22753), (125, 22852), (135, 22879),

Gene: AbbysRanger_28 Start: 21662, Stop: 22108, Start Num: 49

Candidate Starts for AbbysRanger_28:

(Start: 49 @21662 has 762 MA's), (65, 21731), (70, 21758), (75, 21776), (87, 21830), (105, 21950), (112, 21980), (116, 21995), (125, 22028),

Gene: Abbysshoes_29 Start: 23159, Stop: 23605, Start Num: 49

Candidate Starts for Abbysshoes_29:

(Start: 49 @23159 has 762 MA's), (73, 23273), (74, 23276), (85, 23318), (86, 23324), (133, 23552),

Gene: Abdiel_27 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Abdiel_27:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Abrogate_290 Start: 23719, Stop: 24165, Start Num: 49

Candidate Starts for Abrogate_290:

(Start: 49 @23719 has 762 MA's), (73, 23833), (74, 23836), (85, 23878), (86, 23884), (133, 24112),

Gene: Achebe_27 Start: 21645, Stop: 22091, Start Num: 49

Candidate Starts for Achebe_27:

(Start: 49 @21645 has 762 MA's), (65, 21714), (70, 21741), (75, 21759), (87, 21813), (105, 21933), (112, 21963), (116, 21978), (125, 22011),

Gene: Acme_30 Start: 23260, Stop: 23706, Start Num: 49

Candidate Starts for Acme_30:

(Start: 49 @23260 has 762 MA's), (73, 23374), (74, 23377), (85, 23419), (86, 23425), (133, 23653),

Gene: Acolyte_29 Start: 22551, Stop: 23000, Start Num: 51

Candidate Starts for Acolyte_29:

(Start: 51 @22551 has 21 MA's), (66, 22629), (79, 22689), (103, 22821), (105, 22842), (112, 22872), (125, 22920), (135, 22947),

Gene: Adahisdi_29 Start: 23167, Stop: 23613, Start Num: 49

Candidate Starts for Adahisdi_29:

(Start: 49 @23167 has 762 MA's), (73, 23281), (74, 23284), (85, 23326), (86, 23332), (133, 23560),

Gene: Adzzy_30 Start: 20730, Stop: 21179, Start Num: 53

Candidate Starts for Adzzy_30:

(Start: 53 @20730 has 5 MA's), (66, 20808), (79, 20868), (103, 21000), (105, 21021), (107, 21027), (125, 21099), (140, 21156),

Gene: Aeneas_30 Start: 23296, Stop: 23742, Start Num: 49

Candidate Starts for Aeneas_30:

(Start: 49 @23296 has 762 MA's), (73, 23410), (74, 23413), (85, 23455), (86, 23461), (133, 23689),

Gene: Agaliana_29 Start: 23240, Stop: 23686, Start Num: 49

Candidate Starts for Agaliana_29:

(Start: 49 @23240 has 762 MA's), (73, 23354), (74, 23357), (85, 23399), (86, 23405), (133, 23633),

Gene: Agape74_31 Start: 22462, Stop: 22908, Start Num: 49

Candidate Starts for Agape74_31:

(1, 22150), (5, 22240), (Start: 24 @22423 has 1 MA's), (Start: 49 @22462 has 762 MA's), (66, 22537), (79, 22597), (103, 22729), (125, 22828), (135, 22855),

Gene: Agatha_19 Start: 17442, Stop: 17831, Start Num: 52

Candidate Starts for Agatha_19:

(Start: 52 @17442 has 25 MA's), (63, 17514), (64, 17517), (67, 17532), (71, 17553), (75, 17568), (79, 17589), (91, 17631), (104, 17697), (109, 17733), (111, 17739), (117, 17760), (129, 17802),

Gene: AgentM_25 Start: 21547, Stop: 22011, Start Num: 49

Candidate Starts for AgentM_25:

(Start: 49 @21547 has 762 MA's), (113, 21871), (116, 21883), (127, 21925), (141, 21982),

Gene: Aglet_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for Aglet_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: AgronaGT15_30 Start: 22106, Stop: 22549, Start Num: 49

Candidate Starts for AgronaGT15_30:

(Start: 49 @22106 has 762 MA's), (65, 22175), (70, 22202), (87, 22274), (105, 22394), (112, 22424), (125, 22472), (142, 22541),

Gene: AikoCarson_18 Start: 16751, Stop: 17140, Start Num: 52

Candidate Starts for AikoCarson_18:

(Start: 45 @16742 has 11 MA's), (Start: 52 @16751 has 25 MA's), (64, 16826), (67, 16841), (71, 16862), (75, 16877), (77, 16883), (104, 17006), (111, 17048), (117, 17069), (129, 17111), (131, 17114),

Gene: Airmid_25 Start: 20788, Stop: 21252, Start Num: 49

Candidate Starts for Airmid_25:

(Start: 49 @20788 has 762 MA's), (127, 21166), (136, 21187), (140, 21214), (141, 21223),

Gene: Ajay_29 Start: 23472, Stop: 23918, Start Num: 49

Candidate Starts for Ajay_29:

(Start: 49 @23472 has 762 MA's), (73, 23586), (74, 23589), (85, 23631), (86, 23637), (133, 23865),

Gene: Alatin_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Alatin_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Albee_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Albee_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Alberto7_29 Start: 21929, Stop: 22375, Start Num: 49

Candidate Starts for Alberto7_29:

(Start: 49 @21929 has 762 MA's), (65, 21998), (66, 22004), (70, 22025), (76, 22046), (87, 22097), (105, 22217), (112, 22247), (119, 22271), (125, 22295), (126, 22298), (140, 22352),

Gene: Aliter_31 Start: 23485, Stop: 23934, Start Num: 49

Candidate Starts for Aliter_31:

(Start: 49 @23485 has 762 MA's), (66, 23566), (105, 23779), (112, 23809), (125, 23857), (140, 23914),

Gene: Alma_31 Start: 23561, Stop: 24049, Start Num: 31

Candidate Starts for Alma_31:

(Start: 31 @23561 has 1 MA's), (Start: 49 @23600 has 762 MA's), (66, 23681), (105, 23894), (112, 23924), (125, 23972), (140, 24029),

Gene: Alpacados_23 Start: 17924, Stop: 18364, Start Num: 49

Candidate Starts for Alpacados_23:

(11, 17705), (12, 17726), (30, 17843), (Start: 49 @17924 has 762 MA's), (59, 17951), (85, 18077), (87, 18092), (93, 18119), (107, 18215), (116, 18254),

Gene: Alsfro_32 Start: 23705, Stop: 24151, Start Num: 49

Candidate Starts for Alsfro_32:

(Start: 49 @23705 has 762 MA's), (73, 23819), (74, 23822), (85, 23864), (86, 23870), (133, 24098),

Gene: Altman_30 Start: 23763, Stop: 24209, Start Num: 49

Candidate Starts for Altman_30:

(Start: 49 @23763 has 762 MA's), (73, 23877), (74, 23880), (85, 23922), (86, 23928), (133, 24156),

Gene: Alvin_29 Start: 23532, Stop: 23978, Start Num: 49

Candidate Starts for Alvin_29:

(Start: 49 @23532 has 762 MA's), (73, 23646), (74, 23649), (85, 23691), (86, 23697), (133, 23925),

Gene: Amok_18 Start: 16739, Stop: 17137, Start Num: 45

Candidate Starts for Amok_18:

(Start: 45 @16739 has 11 MA's), (Start: 52 @16748 has 25 MA's), (64, 16823), (67, 16838), (71, 16859), (75, 16874), (77, 16880), (104, 17003), (111, 17045), (117, 17066), (129, 17108), (131, 17111),

Gene: Anaysia_31 Start: 20968, Stop: 21411, Start Num: 49

Candidate Starts for Anaysia_31:

(Start: 49 @20968 has 762 MA's), (58, 20977), (65, 21037), (66, 21043), (81, 21106), (90, 21145), (112, 21286), (125, 21334),

Gene: AndPeggy_18 Start: 17105, Stop: 17503, Start Num: 45

Candidate Starts for AndPeggy_18:

(Start: 45 @17105 has 11 MA's), (Start: 52 @17114 has 25 MA's), (63, 17186), (64, 17189), (67, 17204), (71, 17225), (78, 17249), (104, 17369), (111, 17411), (117, 17432), (129, 17474),

Gene: Aneem_29 Start: 22633, Stop: 23076, Start Num: 50

Candidate Starts for Aneem_29:

(Start: 21 @22570 has 1 MA's), (Start: 50 @22633 has 23 MA's), (66, 22708), (103, 22900), (105, 22921), (125, 22999), (141, 23065),

Gene: Anglerfish_29 Start: 23676, Stop: 24122, Start Num: 49

Candidate Starts for Anglerfish_29:

(Start: 49 @23676 has 762 MA's), (57, 23688), (73, 23790), (74, 23793), (85, 23835), (86, 23841), (133, 24069),

Gene: AngryOrchard_23 Start: 17907, Stop: 18347, Start Num: 49

Candidate Starts for AngryOrchard_23:

(11, 17688), (12, 17709), (30, 17826), (33, 17859), (Start: 49 @17907 has 762 MA's), (59, 17934), (85, 18060), (87, 18075), (93, 18102), (107, 18198), (116, 18237), (136, 18300),

Gene: AnnaL29_32 Start: 23808, Stop: 24260, Start Num: 49

Candidate Starts for AnnaL29_32:

(29, 23784), (Start: 49 @23808 has 762 MA's), (66, 23889), (79, 23949), (86, 23973), (103, 24081), (105, 24102), (112, 24132), (125, 24180), (135, 24207), (140, 24237),

Gene: Annyong_28 Start: 21628, Stop: 22074, Start Num: 49

Candidate Starts for Annyong_28:

(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796), (105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: Anon_29 Start: 21532, Stop: 21975, Start Num: 49

Candidate Starts for Anon_29:

(2, 21292), (15, 21406), (Start: 49 @21532 has 762 MA's), (61, 21583), (65, 21601), (66, 21607), (112, 21850), (125, 21898), (135, 21925),

Gene: Anselm_29 Start: 22142, Stop: 22588, Start Num: 49

Candidate Starts for Anselm_29:

(Start: 49 @22142 has 762 MA's), (66, 22217), (76, 22259), (79, 22277), (103, 22409), (125, 22508), (135, 22535), (140, 22565),

Gene: Anthony_28 Start: 20492, Stop: 20938, Start Num: 49

Candidate Starts for Anthony_28:

(Start: 49 @20492 has 762 MA's), (66, 20570), (103, 20762), (125, 20861), (135, 20888), (140, 20918), (141, 20927),

Gene: Anubis_32 Start: 22084, Stop: 22527, Start Num: 49

Candidate Starts for Anubis_32:

(Start: 49 @22084 has 762 MA's), (65, 22153), (70, 22180), (87, 22252), (105, 22372), (112, 22402), (125, 22450), (142, 22519),

Gene: AppleCloud_22 Start: 17953, Stop: 18393, Start Num: 49

Candidate Starts for AppleCloud_22:

(11, 17734), (12, 17755), (30, 17872), (33, 17905), (Start: 49 @17953 has 762 MA's), (59, 17980), (85, 18106), (87, 18121), (93, 18148), (107, 18244), (116, 18283),

Gene: Applejack_28 Start: 22937, Stop: 23383, Start Num: 49

Candidate Starts for Applejack_28:

(Start: 49 @22937 has 762 MA's), (57, 22949), (73, 23051), (74, 23054), (85, 23096), (86, 23102), (133, 23330),

Gene: Aragog_25 Start: 21577, Stop: 22041, Start Num: 49

Candidate Starts for Aragog_25:

(Start: 49 @21577 has 762 MA's), (113, 21901), (116, 21913), (127, 21955), (141, 22012),

Gene: Arcanine_29 Start: 22690, Stop: 23136, Start Num: 49

Candidate Starts for Arcanine_29:

(Start: 49 @22690 has 762 MA's), (73, 22804), (74, 22807), (85, 22849), (86, 22855), (133, 23083),

Gene: ArcherNM_31 Start: 23752, Stop: 24204, Start Num: 49

Candidate Starts for ArcherNM_31:

(3, 23524), (4, 23527), (16, 23635), (23, 23710), (Start: 24 @23716 has 1 MA's), (Start: 49 @23752 has 762 MA's), (66, 23833), (103, 24025), (105, 24046), (112, 24076), (125, 24124), (135, 24151), (140, 24181),

Gene: Archetta_25 Start: 21370, Stop: 21834, Start Num: 49

Candidate Starts for Archetta_25:

(Start: 49 @21370 has 762 MA's), (75, 21487), (101, 21631), (127, 21748), (128, 21751), (137, 21775), (141, 21805),

Gene: Arianna_20 Start: 19090, Stop: 19509, Start Num: 54

Candidate Starts for Arianna_20:

(Start: 54 @19090 has 5 MA's), (64, 19159), (75, 19213),

Gene: Arissanae_29 Start: 21618, Stop: 22067, Start Num: 49

Candidate Starts for Arissanae_29:

(Start: 49 @21618 has 762 MA's), (66, 21696), (98, 21846), (103, 21888), (105, 21909), (112, 21939), (125, 21987),

Gene: Arlo_27 Start: 22566, Stop: 23012, Start Num: 49

Candidate Starts for Arlo_27:

(Start: 49 @22566 has 762 MA's), (73, 22680), (74, 22683), (85, 22725), (86, 22731), (133, 22959),

Gene: Artemis2UCLA_32 Start: 21661, Stop: 22113, Start Num: 49

Candidate Starts for Artemis2UCLA_32:

(Start: 49 @21661 has 762 MA's), (61, 21718), (66, 21742), (86, 21826), (103, 21934), (112, 21985), (125, 22033), (130, 22048),

Gene: Arturo_27 Start: 21739, Stop: 22185, Start Num: 49

Candidate Starts for Arturo_27:

(Start: 49 @21739 has 762 MA's), (65, 21808), (66, 21814), (70, 21835), (76, 21856), (87, 21907), (105, 22027), (112, 22057), (119, 22081), (125, 22105), (126, 22108), (140, 22162),

Gene: Ashballer_30 Start: 23690, Stop: 24136, Start Num: 49

Candidate Starts for Ashballer_30:

(Start: 49 @23690 has 762 MA's), (57, 23702), (73, 23804), (74, 23807), (85, 23849), (86, 23855), (133, 24083),

Gene: Astro_25 Start: 20465, Stop: 20911, Start Num: 49

Candidate Starts for Astro_25:

(Start: 49 @20465 has 762 MA's), (63, 20528), (65, 20537), (75, 20582), (93, 20663), (107, 20762), (113, 20786), (139, 20885), (140, 20891),

Gene: Atkinbua_30 Start: 23390, Stop: 23836, Start Num: 49

Candidate Starts for Atkinbua_30:

(Start: 49 @23390 has 762 MA's), (73, 23504), (74, 23507), (85, 23549), (86, 23555), (133, 23783),

Gene: AugsMagnumOpus_32 Start: 22190, Stop: 22633, Start Num: 49

Candidate Starts for AugsMagnumOpus_32:

(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508), (125, 22556), (142, 22625),

Gene: Avani_20 Start: 15408, Stop: 15773, Start Num: 55

Candidate Starts for Avani_20:

(27, 15300), (37, 15354), (Start: 55 @15408 has 8 MA's), (62, 15468), (64, 15474), (67, 15489), (69, 15504), (71, 15510), (77, 15531), (78, 15534), (104, 15651), (112, 15693), (120, 15726),

Gene: AvatarAhPeg_29 Start: 21927, Stop: 22373, Start Num: 49

Candidate Starts for AvatarAhPeg_29:

(Start: 49 @21927 has 762 MA's), (65, 21996), (70, 22023), (105, 22215), (112, 22245), (116, 22260), (125, 22293),

Gene: Avle17_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Avle17_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Axym_19 Start: 17442, Stop: 17831, Start Num: 52

Candidate Starts for Axym_19:

(Start: 52 @17442 has 25 MA's), (63, 17514), (64, 17517), (67, 17532), (71, 17553), (75, 17568), (79, 17589), (91, 17631), (104, 17697), (109, 17733), (111, 17739), (117, 17760), (129, 17802),

Gene: Azira_21 Start: 18423, Stop: 18809, Start Num: 52

Candidate Starts for Azira_21:

(Start: 52 @18423 has 25 MA's), (63, 18495), (67, 18513), (71, 18534), (77, 18555), (78, 18558), (83, 18579), (96, 18633), (102, 18672), (106, 18699), (111, 18720), (117, 18741),

Gene: B1_26 Start: 21448, Stop: 21891, Start Num: 49

Candidate Starts for B1_26:

(14, 21262), (Start: 42 @21421 has 1 MA's), (Start: 49 @21448 has 762 MA's), (65, 21517), (70, 21544), (105, 21736), (107, 21742), (112, 21766), (125, 21814), (142, 21883),

Gene: BABullseye_32 Start: 21837, Stop: 22289, Start Num: 49

Candidate Starts for BABullseye_32:

(Start: 49 @21837 has 762 MA's), (61, 21894), (66, 21918), (86, 22002), (103, 22110), (112, 22161), (125, 22209), (130, 22224),

Gene: BK1_26 Start: 22501, Stop: 22947, Start Num: 49

Candidate Starts for BK1_26:

(Start: 49 @22501 has 762 MA's), (57, 22513), (73, 22615), (74, 22618), (85, 22660), (86, 22666), (87, 22675), (133, 22894),

Gene: BPBiibs31_29 Start: 23261, Stop: 23707, Start Num: 49
Candidate Starts for BPBiibs31_29:
(Start: 49 @23261 has 762 MA's), (73, 23375), (74, 23378), (85, 23420), (86, 23426), (133, 23654),

Gene: Baby16_28 Start: 21636, Stop: 22082, Start Num: 49
Candidate Starts for Baby16_28:
(Start: 49 @21636 has 762 MA's), (65, 21705), (66, 21711), (70, 21732), (76, 21753), (87, 21804),
(105, 21924), (112, 21954), (119, 21978), (125, 22002), (126, 22005), (140, 22059),

Gene: BabyBack_31 Start: 23581, Stop: 24027, Start Num: 49
Candidate Starts for BabyBack_31:
(Start: 49 @23581 has 762 MA's), (66, 23656), (103, 23848), (105, 23869), (112, 23899), (125,
23947), (135, 23974), (140, 24004),

Gene: BabyJohn_27 Start: 22033, Stop: 22476, Start Num: 49
Candidate Starts for BabyJohn_27:
(Start: 49 @22033 has 762 MA's), (65, 22102), (70, 22129), (105, 22321), (107, 22327), (112, 22351),
(125, 22399), (133, 22420),

Gene: BabyRay_28 Start: 22008, Stop: 22451, Start Num: 49
Candidate Starts for BabyRay_28:
(14, 21822), (Start: 42 @21981 has 1 MA's), (Start: 49 @22008 has 762 MA's), (65, 22077), (70,
22104), (105, 22296), (107, 22302), (112, 22326), (125, 22374), (142, 22443),

Gene: Bachome_29 Start: 22624, Stop: 23067, Start Num: 50
Candidate Starts for Bachome_29:
(Start: 50 @22624 has 23 MA's), (66, 22699), (103, 22891), (105, 22912), (125, 22990), (141, 23056),

Gene: Backyardigan_28 Start: 21657, Stop: 22103, Start Num: 49
Candidate Starts for Backyardigan_28:
(Start: 49 @21657 has 762 MA's), (65, 21726), (70, 21753), (75, 21771), (87, 21825), (105, 21945),
(112, 21975), (116, 21990), (125, 22023),

Gene: BaconJack_31 Start: 23459, Stop: 23905, Start Num: 49
Candidate Starts for BaconJack_31:
(Start: 49 @23459 has 762 MA's), (57, 23471), (73, 23573), (74, 23576), (85, 23618), (86, 23624),
(133, 23852),

Gene: Bactobuster_30 Start: 23571, Stop: 24017, Start Num: 47
Candidate Starts for Bactobuster_30:
(Start: 47 @23571 has 6 MA's), (66, 23646), (75, 23685), (79, 23706), (103, 23838), (112, 23889),
(125, 23937), (135, 23964),

Gene: Badger_28 Start: 21646, Stop: 22092, Start Num: 49
Candidate Starts for Badger_28:
(Start: 49 @21646 has 762 MA's), (65, 21715), (70, 21742), (75, 21760), (87, 21814), (105, 21934),
(112, 21964), (116, 21979), (125, 22012),

Gene: Baehexic_30 Start: 22464, Stop: 22910, Start Num: 49
Candidate Starts for Baehexic_30:
(3, 22233), (23, 22419), (Start: 24 @22425 has 1 MA's), (Start: 49 @22464 has 762 MA's), (66,
22539), (75, 22578), (103, 22731), (125, 22830), (135, 22857), (140, 22887),

Gene: BangNhom_28 Start: 21941, Stop: 22387, Start Num: 49

Candidate Starts for BangNhom_28:

(Start: 49 @21941 has 762 MA's), (65, 22010), (66, 22016), (70, 22037), (76, 22058), (87, 22109), (105, 22229), (112, 22259), (114, 22265), (119, 22283), (125, 22307), (126, 22310),

Gene: Barriga_28 Start: 22792, Stop: 23238, Start Num: 49

Candidate Starts for Barriga_28:

(Start: 49 @22792 has 762 MA's), (73, 22906), (74, 22909), (85, 22951), (86, 22957), (133, 23185),

Gene: Bartimeaus_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Bartimeaus_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Battleship_32 Start: 21080, Stop: 21523, Start Num: 49

Candidate Starts for Battleship_32:

(Start: 49 @21080 has 762 MA's), (58, 21089), (65, 21149), (66, 21155), (81, 21218), (90, 21257), (112, 21398), (125, 21446),

Gene: Beatrix_28 Start: 24374, Stop: 24820, Start Num: 49

Candidate Starts for Beatrix_28:

(Start: 49 @24374 has 762 MA's), (73, 24488), (74, 24491), (85, 24533), (86, 24539), (133, 24767),

Gene: Beauxregard13_30 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for Beauxregard13_30:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Beemo_31 Start: 23591, Stop: 24040, Start Num: 49

Candidate Starts for Beemo_31:

(Start: 49 @23591 has 762 MA's), (66, 23672), (105, 23885), (112, 23915), (125, 23963), (140, 24020),

Gene: BeesKnees_29 Start: 22991, Stop: 23437, Start Num: 49

Candidate Starts for BeesKnees_29:

(Start: 49 @22991 has 762 MA's), (73, 23105), (74, 23108), (85, 23150), (86, 23156), (133, 23384),

Gene: Belenaria_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Belenaria_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: BellusTerra_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for BellusTerra_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Benedict_25 Start: 20791, Stop: 21255, Start Num: 49

Candidate Starts for Benedict_25:

(Start: 49 @20791 has 762 MA's), (127, 21169), (136, 21190), (140, 21217), (141, 21226),

Gene: BengiVuitton_30 Start: 22409, Stop: 22852, Start Num: 49

Candidate Starts for BengiVuitton_30:

(1, 22097), (5, 22187), (13, 22274), (23, 22364), (Start: 24 @22370 has 1 MA's), (Start: 49 @22409 has 762 MA's), (66, 22484), (79, 22544), (103, 22676), (105, 22697), (125, 22775), (135, 22802), (140, 22832),

Gene: Benvolio_29 Start: 22081, Stop: 22527, Start Num: 49

Candidate Starts for Benvolio_29:

(1, 21769), (3, 21850), (5, 21859), (13, 21946), (Start: 24 @22042 has 1 MA's), (Start: 49 @22081 has 762 MA's), (66, 22156), (79, 22216), (103, 22348), (125, 22447), (135, 22474), (140, 22504),

Gene: Bethlehem_28 Start: 24217, Stop: 24663, Start Num: 49

Candidate Starts for Bethlehem_28:

(Start: 49 @24217 has 762 MA's), (73, 24331), (74, 24334), (85, 24376), (86, 24382), (133, 24610),

Gene: Bexan_27 Start: 23941, Stop: 24387, Start Num: 49

Candidate Starts for Bexan_27:

(Start: 49 @23941 has 762 MA's), (57, 23953), (73, 24055), (74, 24058), (85, 24100), (86, 24106), (133, 24334),

Gene: BiancaTri92_31 Start: 23761, Stop: 24213, Start Num: 48

Candidate Starts for BiancaTri92_31:

(Start: 48 @23761 has 3 MA's), (66, 23842), (103, 24034), (105, 24055), (112, 24085), (125, 24133), (135, 24160),

Gene: Big3_28 Start: 23572, Stop: 24018, Start Num: 49

Candidate Starts for Big3_28:

(Start: 49 @23572 has 762 MA's), (73, 23686), (74, 23689), (85, 23731), (86, 23737), (133, 23965),

Gene: BigChungus_18 Start: 17156, Stop: 17548, Start Num: 49

Candidate Starts for BigChungus_18:

(Start: 49 @17156 has 762 MA's), (58, 17177), (64, 17231), (65, 17237), (67, 17246), (71, 17267), (75, 17282), (79, 17303), (108, 17444), (111, 17453), (117, 17474),

Gene: BigMau_30 Start: 23173, Stop: 23619, Start Num: 49

Candidate Starts for BigMau_30:

(Start: 49 @23173 has 762 MA's), (73, 23287), (74, 23290), (85, 23332), (86, 23338), (133, 23566),

Gene: BigPaolini_29 Start: 23570, Stop: 24016, Start Num: 49

Candidate Starts for BigPaolini_29:

(Start: 49 @23570 has 762 MA's), (73, 23684), (74, 23687), (85, 23729), (86, 23735), (133, 23963),

Gene: Bigfoot_27 Start: 22779, Stop: 23225, Start Num: 49

Candidate Starts for Bigfoot_27:

(Start: 49 @22779 has 762 MA's), (73, 22893), (74, 22896), (85, 22938), (86, 22944), (133, 23172),

Gene: BillDoor_21 Start: 17082, Stop: 17471, Start Num: 52

Candidate Starts for BillDoor_21:

(Start: 45 @17073 has 11 MA's), (Start: 52 @17082 has 25 MA's), (63, 17154), (64, 17157), (67, 17172), (71, 17193), (78, 17217), (104, 17337), (111, 17379), (117, 17400), (129, 17442),

Gene: BillKnuckles_29 Start: 23657, Stop: 24103, Start Num: 49

Candidate Starts for BillKnuckles_29:

(Start: 49 @23657 has 762 MA's), (73, 23771), (74, 23774), (85, 23816), (86, 23822), (133, 24050),

Gene: Bircsak_28 Start: 23429, Stop: 23875, Start Num: 49

Candidate Starts for Bircsak_28:

(Start: 49 @23429 has 762 MA's), (73, 23543), (74, 23546), (85, 23588), (86, 23594), (133, 23822),

Gene: Biskit_20 Start: 17088, Stop: 17486, Start Num: 45

Candidate Starts for Biskit_20:

(Start: 45 @17088 has 11 MA's), (Start: 52 @17097 has 25 MA's), (63, 17169), (64, 17172), (67, 17187), (71, 17208), (75, 17223), (77, 17229), (83, 17253), (104, 17352), (111, 17394), (117, 17415), (129, 17457),

Gene: Blackmoor_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Blackmoor_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Blarby_21 Start: 15928, Stop: 16293, Start Num: 55

Candidate Starts for Blarby_21:

(37, 15874), (Start: 55 @15928 has 8 MA's), (62, 15988), (64, 15994), (67, 16009), (71, 16030), (77, 16051), (78, 16054), (79, 16066), (104, 16171), (112, 16213), (115, 16222), (120, 16246), (124, 16258),

Gene: Blinn1_32 Start: 21830, Stop: 22282, Start Num: 49

Candidate Starts for Blinn1_32:

(Start: 49 @21830 has 762 MA's), (61, 21887), (66, 21911), (86, 21995), (103, 22103), (112, 22154), (125, 22202), (130, 22217),

Gene: BluSpix_29 Start: 23187, Stop: 23633, Start Num: 49

Candidate Starts for BluSpix_29:

(Start: 49 @23187 has 762 MA's), (73, 23301), (74, 23304), (85, 23346), (86, 23352), (133, 23580),

Gene: Blue_28 Start: 23425, Stop: 23871, Start Num: 49

Candidate Starts for Blue_28:

(Start: 49 @23425 has 762 MA's), (57, 23437), (73, 23539), (74, 23542), (85, 23584), (86, 23590), (133, 23818),

Gene: Blue7_32 Start: 21751, Stop: 22203, Start Num: 49

Candidate Starts for Blue7_32:

(Start: 49 @21751 has 762 MA's), (61, 21808), (66, 21832), (86, 21916), (103, 22024), (112, 22075), (125, 22123), (130, 22138),

Gene: BlueBird_29 Start: 21759, Stop: 22202, Start Num: 49

Candidate Starts for BlueBird_29:

(Start: 42 @21732 has 1 MA's), (Start: 49 @21759 has 762 MA's), (65, 21828), (70, 21855), (105, 22047), (112, 22077), (125, 22125), (135, 22152), (142, 22194),

Gene: Bluefalcon_24 Start: 21627, Stop: 22091, Start Num: 49

Candidate Starts for Bluefalcon_24:

(Start: 49 @21627 has 762 MA's), (75, 21744), (101, 21888), (127, 22005), (128, 22008), (137, 22032), (141, 22062),

Gene: Bob3_27 Start: 22513, Stop: 22959, Start Num: 49

Candidate Starts for Bob3_27:

(Start: 49 @22513 has 762 MA's), (73, 22627), (74, 22630), (85, 22672), (86, 22678), (133, 22906),

Gene: BobSwaget_32 Start: 23608, Stop: 24054, Start Num: 49

Candidate Starts for BobSwaget_32:

(Start: 49 @23608 has 762 MA's), (66, 23683), (79, 23743), (103, 23875), (125, 23974), (135, 24001), (140, 24031),

Gene: BobbyDazzler_24 Start: 18033, Stop: 18473, Start Num: 49

Candidate Starts for BobbyDazzler_24:

(11, 17814), (12, 17835), (30, 17952), (Start: 49 @18033 has 762 MA's), (59, 18060), (85, 18186), (87, 18201), (93, 18228), (107, 18324), (116, 18363),

Gene: BogosyJay_30 Start: 23118, Stop: 23567, Start Num: 49

Candidate Starts for BogosyJay_30:

(Start: 49 @23118 has 762 MA's), (66, 23199), (103, 23391), (105, 23412), (112, 23442), (125, 23490), (135, 23517),

Gene: Bombshell_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Bombshell_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Bonamassa_25 Start: 21468, Stop: 21932, Start Num: 49

Candidate Starts for Bonamassa_25:

(Start: 49 @21468 has 762 MA's), (113, 21792), (116, 21804), (127, 21846), (136, 21867), (140, 21894), (141, 21903),

Gene: Bonanza_24 Start: 17962, Stop: 18402, Start Num: 49

Candidate Starts for Bonanza_24:

(11, 17743), (12, 17764), (30, 17881), (Start: 49 @17962 has 762 MA's), (59, 17989), (85, 18115), (87, 18130), (93, 18157), (107, 18253), (116, 18292),

Gene: Bones_28 Start: 22879, Stop: 23325, Start Num: 49

Candidate Starts for Bones_28:

(Start: 49 @22879 has 762 MA's), (73, 22993), (74, 22996), (85, 23038), (86, 23044), (133, 23272),

Gene: Boohoo_31 Start: 20968, Stop: 21411, Start Num: 49

Candidate Starts for Boohoo_31:

(Start: 49 @20968 has 762 MA's), (58, 20977), (65, 21037), (66, 21043), (81, 21106), (90, 21145), (112, 21286), (125, 21334),

Gene: Bowtie_29 Start: 22633, Stop: 23076, Start Num: 50

Candidate Starts for Bowtie_29:

(Start: 21 @22570 has 1 MA's), (Start: 50 @22633 has 23 MA's), (66, 22708), (103, 22900), (105, 22921), (125, 22999), (141, 23065),

Gene: Bradman_28 Start: 20882, Stop: 21325, Start Num: 51

Candidate Starts for Bradman_28:

(Start: 51 @20882 has 21 MA's), (66, 20957), (79, 21017), (112, 21200), (125, 21248), (140, 21305),

Gene: Bradshaw_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Bradshaw_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: BreSam8_30 Start: 22191, Stop: 22634, Start Num: 49

Candidate Starts for BreSam8_30:

(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509), (125, 22557), (142, 22626),

Gene: Briton15_30 Start: 23224, Stop: 23670, Start Num: 49

Candidate Starts for Briton15_30:

(Start: 49 @23224 has 762 MA's), (73, 23338), (74, 23341), (85, 23383), (86, 23389), (133, 23617),

Gene: Broseidon_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Broseidon_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Bruiser_27 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Bruiser_27:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Bruns_27 Start: 22854, Stop: 23300, Start Num: 49

Candidate Starts for Bruns_27:

(Start: 49 @22854 has 762 MA's), (57, 22866), (73, 22968), (74, 22971), (85, 23013), (86, 23019), (133, 23247),

Gene: Bryce_24 Start: 17962, Stop: 18402, Start Num: 49

Candidate Starts for Bryce_24:

(11, 17743), (12, 17764), (30, 17881), (Start: 49 @17962 has 762 MA's), (59, 17989), (85, 18115), (87, 18130), (93, 18157), (107, 18253), (116, 18292),

Gene: BubbleTrouble_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for BubbleTrouble_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: Bud_29 Start: 22639, Stop: 23082, Start Num: 50

Candidate Starts for Bud_29:

(Start: 50 @22639 has 23 MA's), (66, 22714), (103, 22906), (105, 22927), (125, 23005), (141, 23071),

Gene: Bugatti_28 Start: 21759, Stop: 22202, Start Num: 49

Candidate Starts for Bugatti_28:

(Start: 42 @21732 has 1 MA's), (Start: 49 @21759 has 762 MA's), (65, 21828), (70, 21855), (105, 22047), (112, 22077), (125, 22125), (135, 22152), (142, 22194),

Gene: Buggy_31 Start: 22485, Stop: 22931, Start Num: 49

Candidate Starts for Buggy_31:

(1, 22173), (5, 22263), (Start: 24 @22446 has 1 MA's), (Start: 49 @22485 has 762 MA's), (66, 22560), (79, 22620), (103, 22752), (125, 22851), (135, 22878),

Gene: Bumblebee11_28 Start: 21648, Stop: 22094, Start Num: 49

Candidate Starts for Bumblebee11_28:

(Start: 49 @21648 has 762 MA's), (65, 21717), (70, 21744), (75, 21762), (87, 21816), (105, 21936), (112, 21966), (116, 21981), (125, 22014),

Gene: Burger_27 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Burger_27:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Burnsey_19 Start: 17443, Stop: 17832, Start Num: 52

Candidate Starts for Burnsey_19:

(Start: 52 @17443 has 25 MA's), (63, 17515), (64, 17518), (67, 17533), (71, 17554), (75, 17569), (79, 17590), (91, 17632), (104, 17698), (109, 17734), (111, 17740), (117, 17761), (129, 17803),

Gene: Burton_29 Start: 23074, Stop: 23520, Start Num: 49

Candidate Starts for Burton_29:

(Start: 49 @23074 has 762 MA's), (73, 23188), (74, 23191), (85, 23233), (86, 23239), (133, 23467),

Gene: Button_20 Start: 16475, Stop: 16867, Start Num: 49

Candidate Starts for Button_20:

(34, 16421), (Start: 49 @16475 has 762 MA's), (64, 16550), (67, 16565), (71, 16586), (75, 16601), (79, 16622), (111, 16772), (114, 16781), (117, 16793),

Gene: Buttons_30 Start: 23915, Stop: 24361, Start Num: 49

Candidate Starts for Buttons_30:

(Start: 49 @23915 has 762 MA's), (57, 23927), (73, 24029), (74, 24032), (85, 24074), (86, 24080), (133, 24308),

Gene: Buttrmlkdreams_19 Start: 17070, Stop: 17468, Start Num: 45

Candidate Starts for Buttrmlkdreams_19:

(Start: 45 @17070 has 11 MA's), (Start: 52 @17079 has 25 MA's), (63, 17151), (64, 17154), (67, 17169), (71, 17190), (75, 17205), (77, 17211), (83, 17235), (104, 17334), (111, 17376), (117, 17397), (129, 17439),

Gene: BuzzBuzz_29 Start: 22282, Stop: 22725, Start Num: 49

Candidate Starts for BuzzBuzz_29:

(Start: 49 @22282 has 762 MA's), (65, 22351), (70, 22378), (87, 22450), (105, 22570), (112, 22600), (125, 22648), (142, 22717),

Gene: Bxb1_26 Start: 23025, Stop: 23471, Start Num: 49

Candidate Starts for Bxb1_26:

(Start: 49 @23025 has 762 MA's), (73, 23139), (74, 23142), (85, 23184), (86, 23190), (133, 23418),

Gene: Bxz2_29 Start: 22292, Stop: 22735, Start Num: 49

Candidate Starts for Bxz2_29:

(Start: 49 @22292 has 762 MA's), (65, 22361), (70, 22388), (87, 22460), (105, 22580), (112, 22610), (125, 22658), (142, 22727),

Gene: C3_27 Start: 22000, Stop: 22443, Start Num: 51

Candidate Starts for C3_27:

(Start: 51 @22000 has 21 MA's), (66, 22075), (79, 22135), (103, 22267), (112, 22318), (125, 22366),

Gene: CRB1_29 Start: 21972, Stop: 22415, Start Num: 49

Candidate Starts for CRB1_29:

(3, 21741), (10, 21798), (13, 21837), (23, 21927), (Start: 24 @21933 has 1 MA's), (Start: 49 @21972 has 762 MA's), (66, 22047), (79, 22107), (103, 22239), (105, 22260), (125, 22338), (135, 22365), (140, 22395), (143, 22407),

Gene: CactusRose_27 Start: 22874, Stop: 23320, Start Num: 49

Candidate Starts for CactusRose_27:

(Start: 49 @22874 has 762 MA's), (73, 22988), (74, 22991), (85, 23033), (86, 23039), (133, 23267),

Gene: Caelakin_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Caelakin_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Camperdownii_27 Start: 21249, Stop: 21695, Start Num: 49

Candidate Starts for Camperdownii_27:

(Start: 49 @21249 has 762 MA's), (65, 21318), (66, 21324), (70, 21345), (76, 21366), (87, 21417), (105, 21537), (112, 21567), (119, 21591), (125, 21615), (126, 21618), (140, 21672),

Gene: Candra_32 Start: 21800, Stop: 22252, Start Num: 49

Candidate Starts for Candra_32:

(Start: 49 @21800 has 762 MA's), (61, 21857), (66, 21881), (86, 21965), (103, 22073), (112, 22124), (125, 22172), (130, 22187),

Gene: Caraxes_28 Start: 20724, Stop: 21095, Start Num: 66

Candidate Starts for Caraxes_28:

(Start: 53 @20646 has 5 MA's), (66, 20724), (79, 20784), (103, 20916), (105, 20937), (107, 20943), (125, 21015), (140, 21072),

Gene: Carlyle_30 Start: 23754, Stop: 24200, Start Num: 49

Candidate Starts for Carlyle_30:

(Start: 49 @23754 has 762 MA's), (73, 23868), (74, 23871), (85, 23913), (86, 23919), (133, 24147),

Gene: Carsonalex_20 Start: 17500, Stop: 17889, Start Num: 52

Candidate Starts for Carsonalex_20:

(Start: 52 @17500 has 25 MA's), (63, 17572), (64, 17575), (67, 17590), (71, 17611), (75, 17626), (79, 17647), (91, 17689), (104, 17755), (109, 17791), (111, 17797), (117, 17818), (129, 17860),

Gene: Catalina_32 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for Catalina_32:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: Caviar_29 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for Caviar_29:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Centaur_31 Start: 22442, Stop: 22888, Start Num: 49

Candidate Starts for Centaur_31:

(3, 22211), (23, 22397), (Start: 24 @22403 has 1 MA's), (Start: 49 @22442 has 762 MA's), (66, 22517), (75, 22556), (103, 22709), (125, 22808), (135, 22835), (140, 22865),

Gene: CentreCat_28 Start: 21628, Stop: 22074, Start Num: 49

Candidate Starts for CentreCat_28:

(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796), (105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: Cerulean_29 Start: 21942, Stop: 22388, Start Num: 49

Candidate Starts for Cerulean_29:

(Start: 49 @21942 has 762 MA's), (65, 22011), (66, 22017), (70, 22038), (76, 22059), (87, 22110), (105, 22230), (112, 22260), (114, 22266), (119, 22284), (125, 22308), (126, 22311),

Gene: Chadwick_26 Start: 20759, Stop: 21223, Start Num: 49

Candidate Starts for Chadwick_26:

(Start: 49 @20759 has 762 MA's), (79, 20897), (127, 21137), (136, 21158), (140, 21185), (141, 21194),

Gene: ChampagnePapi_29 Start: 21941, Stop: 22387, Start Num: 49

Candidate Starts for ChampagnePapi_29:

(Start: 49 @21941 has 762 MA's), (65, 22010), (66, 22016), (70, 22037), (76, 22058), (87, 22109), (105, 22229), (112, 22259), (119, 22283), (125, 22307), (126, 22310), (140, 22364),

Gene: Chanagan_27 Start: 22539, Stop: 22985, Start Num: 49

Candidate Starts for Chanagan_27:

(Start: 49 @22539 has 762 MA's), (73, 22653), (74, 22656), (85, 22698), (86, 22704), (133, 22932),

Gene: Changeling_31 Start: 23806, Stop: 24258, Start Num: 49

Candidate Starts for Changeling_31:

(3, 23578), (4, 23581), (16, 23689), (23, 23764), (Start: 24 @23770 has 1 MA's), (Start: 49 @23806 has 762 MA's), (66, 23887), (103, 24079), (105, 24100), (112, 24130), (125, 24178), (135, 24205), (140, 24235),

Gene: Chaph_28 Start: 21636, Stop: 22082, Start Num: 49

Candidate Starts for Chaph_28:

(Start: 49 @21636 has 762 MA's), (65, 21705), (66, 21711), (70, 21732), (76, 21753), (87, 21804), (105, 21924), (112, 21954), (119, 21978), (125, 22002), (126, 22005), (140, 22059),

Gene: Chargerpower_30 Start: 21298, Stop: 21747, Start Num: 49

Candidate Starts for Chargerpower_30:

(Start: 49 @21298 has 762 MA's), (66, 21376), (87, 21469), (103, 21568), (112, 21619), (125, 21667), (135, 21694), (140, 21724),

Gene: Charm_29 Start: 21506, Stop: 21955, Start Num: 49

Candidate Starts for Charm_29:

(Start: 49 @21506 has 762 MA's), (66, 21584), (112, 21827), (125, 21875),

Gene: Chartreuse_32 Start: 21711, Stop: 22163, Start Num: 49

Candidate Starts for Chartreuse_32:

(Start: 49 @21711 has 762 MA's), (61, 21768), (66, 21792), (86, 21876), (103, 21984), (112, 22035), (125, 22083), (130, 22098),

Gene: Che12_31 Start: 20899, Stop: 21348, Start Num: 53

Candidate Starts for Che12_31:

(Start: 53 @20899 has 5 MA's), (66, 20977), (79, 21037), (105, 21190), (107, 21196), (125, 21268), (140, 21325),

Gene: Che9d_20 Start: 15416, Stop: 15781, Start Num: 55

Candidate Starts for Che9d_20:

(27, 15308), (37, 15362), (Start: 55 @15416 has 8 MA's), (62, 15476), (64, 15482), (67, 15497), (69, 15512), (71, 15518), (77, 15539), (78, 15542), (104, 15659), (112, 15701), (120, 15734),

Gene: CherryonLim_20 Start: 17865, Stop: 18257, Start Num: 49

Candidate Starts for CherryonLim_20:

(Start: 49 @17865 has 762 MA's), (58, 17886), (64, 17940), (65, 17946), (67, 17955), (71, 17976), (75, 17991), (79, 18012), (108, 18153), (111, 18162), (117, 18183),

Gene: ChipMunk_31 Start: 22389, Stop: 22835, Start Num: 49

Candidate Starts for ChipMunk_31:

(1, 22077), (5, 22167), (13, 22254), (Start: 24 @22350 has 1 MA's), (Start: 49 @22389 has 762 MA's), (66, 22464), (79, 22524), (103, 22656), (125, 22755), (135, 22782), (140, 22812),

Gene: Chiqui_27 Start: 22033, Stop: 22476, Start Num: 49

Candidate Starts for Chiqui_27:

(Start: 49 @22033 has 762 MA's), (65, 22102), (70, 22129), (105, 22321), (107, 22327), (112, 22351), (125, 22399), (133, 22420),

Gene: Chupacabra_28 Start: 21585, Stop: 22031, Start Num: 49

Candidate Starts for Chupacabra_28:

(Start: 49 @21585 has 762 MA's), (65, 21654), (70, 21681), (87, 21753), (112, 21903), (125, 21951),

Gene: Ciao_28 Start: 22882, Stop: 23328, Start Num: 49

Candidate Starts for Ciao_28:

(Start: 49 @22882 has 762 MA's), (73, 22996), (74, 22999), (85, 23041), (86, 23047), (133, 23275),

Gene: Cici_28 Start: 21642, Stop: 22088, Start Num: 49

Candidate Starts for Cici_28:

(Start: 49 @21642 has 762 MA's), (65, 21711), (70, 21738), (75, 21756), (87, 21810), (105, 21930), (112, 21960), (116, 21975), (125, 22008),

Gene: Cindaradix_27 Start: 21372, Stop: 21818, Start Num: 49

Candidate Starts for Cindaradix_27:

(Start: 49 @21372 has 762 MA's), (65, 21441), (70, 21468), (75, 21486), (87, 21540), (105, 21660), (112, 21690), (116, 21705), (125, 21738),

Gene: Cintron_28 Start: 21675, Stop: 22121, Start Num: 49

Candidate Starts for Cintron_28:

(Start: 49 @21675 has 762 MA's), (65, 21744), (66, 21750), (70, 21771), (76, 21792), (87, 21843), (105, 21963), (112, 21993), (119, 22017), (125, 22041), (126, 22044), (140, 22098),

Gene: Citius_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Citius_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Clarenza_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Clarenza_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Cleo_19 Start: 17736, Stop: 18122, Start Num: 52

Candidate Starts for Cleo_19:

(Start: 24 @17628 has 1 MA's), (Start: 52 @17736 has 25 MA's), (63, 17808), (64, 17811), (67, 17826), (71, 17847), (77, 17868), (78, 17871), (83, 17892), (99, 17964), (111, 18033), (117, 18054),

Gene: CloudWang3_32 Start: 21761, Stop: 22213, Start Num: 49

Candidate Starts for CloudWang3_32:

(Start: 49 @21761 has 762 MA's), (61, 21818), (66, 21842), (86, 21926), (103, 22034), (112, 22085), (125, 22133), (130, 22148),

Gene: Cocoaberry_28 Start: 21631, Stop: 22077, Start Num: 49

Candidate Starts for Cocoaberry_28:

(Start: 49 @21631 has 762 MA's), (65, 21700), (66, 21706), (70, 21727), (76, 21748), (87, 21799), (105, 21919), (112, 21949), (119, 21973), (125, 21997), (126, 22000), (140, 22054),

Gene: Colbster_30 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for Colbster_30:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Colin_33 Start: 23682, Stop: 24128, Start Num: 49

Candidate Starts for Colin_33:

(29, 23658), (Start: 49 @23682 has 762 MA's), (66, 23757), (67, 23760), (75, 23796), (79, 23817), (103, 23949), (105, 23970), (112, 24000), (125, 24048), (135, 24075), (140, 24105),

Gene: Colleen_20 Start: 19090, Stop: 19509, Start Num: 54

Candidate Starts for Colleen_20:

(Start: 54 @19090 has 5 MA's), (64, 19159), (75, 19213),

Gene: Commander_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Commander_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: ConceptII_30 Start: 23896, Stop: 24342, Start Num: 49

Candidate Starts for ConceptII_30:

(Start: 49 @23896 has 762 MA's), (57, 23908), (73, 24010), (74, 24013), (85, 24055), (86, 24061), (133, 24289),

Gene: Connomayer_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Connomayer_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (140, 22050),

Gene: Conquerage_31 Start: 23587, Stop: 24036, Start Num: 49

Candidate Starts for Conquerage_31:

(Start: 49 @23587 has 762 MA's), (66, 23668), (105, 23881), (112, 23911), (125, 23959), (140, 24016),

Gene: Conspiracy_25 Start: 21377, Stop: 21841, Start Num: 49

Candidate Starts for Conspiracy_25:

(Start: 49 @21377 has 762 MA's), (75, 21494), (101, 21638), (127, 21755), (128, 21758), (137, 21782), (141, 21812),

Gene: Coog_25 Start: 21517, Stop: 21981, Start Num: 49

Candidate Starts for Coog_25:

(Start: 49 @21517 has 762 MA's), (113, 21841), (116, 21853), (127, 21895), (140, 21943), (141, 21952),

Gene: Cookiedough_32 Start: 21757, Stop: 22209, Start Num: 49

Candidate Starts for Cookiedough_32:

(Start: 49 @21757 has 762 MA's), (61, 21814), (66, 21838), (86, 21922), (103, 22030), (112, 22081), (125, 22129), (130, 22144),

Gene: Corvo_29 Start: 23891, Stop: 24337, Start Num: 49

Candidate Starts for Corvo_29:

(Start: 49 @23891 has 762 MA's), (73, 24005), (74, 24008), (85, 24050), (86, 24056), (133, 24284),

Gene: CosmicSans_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for CosmicSans_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Cozz_19 Start: 17443, Stop: 17832, Start Num: 52

Candidate Starts for Cozz_19:

(Start: 52 @17443 has 25 MA's), (63, 17515), (64, 17518), (67, 17533), (71, 17554), (75, 17569), (79, 17590), (91, 17632), (104, 17698), (109, 17734), (111, 17740), (117, 17761), (129, 17803),

Gene: Crispicious1_27 Start: 22468, Stop: 22914, Start Num: 49

Candidate Starts for Crispicious1_27:

(Start: 49 @22468 has 762 MA's), (57, 22480), (73, 22582), (74, 22585), (85, 22627), (86, 22633), (133, 22861),

Gene: Crucio_29 Start: 21907, Stop: 22353, Start Num: 49

Candidate Starts for Crucio_29:

(Start: 49 @21907 has 762 MA's), (66, 21982), (79, 22042), (103, 22174), (125, 22273), (135, 22300), (140, 22330),

Gene: Cuco_25 Start: 21467, Stop: 21931, Start Num: 49

Candidate Starts for Cuco_25:

(Start: 49 @21467 has 762 MA's), (113, 21791), (116, 21803), (127, 21845), (140, 21893), (141, 21902),

Gene: Cueylyss_28 Start: 23112, Stop: 23558, Start Num: 49

Candidate Starts for Cueylyss_28:

(Start: 49 @23112 has 762 MA's), (73, 23226), (74, 23229), (85, 23271), (86, 23277), (133, 23505),

Gene: Cullens_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for Cullens_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: D29_29 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for D29_29:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: D32_32 Start: 21856, Stop: 22299, Start Num: 51
Candidate Starts for D32_32:
(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222),
(140, 22279), (143, 22291),

Gene: DBQu4n_32 Start: 21856, Stop: 22299, Start Num: 51
Candidate Starts for DBQu4n_32:
(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222),
(140, 22279), (143, 22291),

Gene: DD5_29 Start: 23658, Stop: 24104, Start Num: 49
Candidate Starts for DD5_29:
(Start: 49 @23658 has 762 MA's), (73, 23772), (74, 23775), (85, 23817), (86, 23823), (133, 24051),

Gene: DS6A_22 Start: 18715, Stop: 19122, Start Num: 40
Candidate Starts for DS6A_22:
(Start: 40 @18715 has 1 MA's), (59, 18787), (60, 18805), (64, 18823), (65, 18829), (69, 18853), (70,
18856), (71, 18859), (76, 18877), (78, 18883), (99, 18973), (102, 18994), (121, 19078),

Gene: DaHudson_30 Start: 22190, Stop: 22633, Start Num: 49
Candidate Starts for DaHudson_30:
(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508),
(125, 22556), (142, 22625),

Gene: DaVinci_32 Start: 21765, Stop: 22217, Start Num: 49
Candidate Starts for DaVinci_32:
(Start: 49 @21765 has 762 MA's), (61, 21822), (66, 21846), (86, 21930), (103, 22038), (112, 22089),
(125, 22137), (130, 22152),

Gene: Daishi_29 Start: 21123, Stop: 21566, Start Num: 49
Candidate Starts for Daishi_29:
(Start: 49 @21123 has 762 MA's), (65, 21192), (70, 21219), (87, 21291), (105, 21411), (112, 21441),
(125, 21489), (142, 21558),

Gene: Dalmatian_29 Start: 22114, Stop: 22560, Start Num: 49
Candidate Starts for Dalmatian_29:
(Start: 49 @22114 has 762 MA's), (66, 22189), (76, 22231), (79, 22249), (103, 22381), (125, 22480),
(135, 22507), (140, 22537),

Gene: Danforth_24 Start: 20444, Stop: 20890, Start Num: 49
Candidate Starts for Danforth_24:
(Start: 49 @20444 has 762 MA's), (63, 20507), (65, 20516), (75, 20561), (93, 20642), (107, 20741),
(113, 20765), (139, 20864), (140, 20870),

Gene: Darrell_31 Start: 23551, Stop: 24000, Start Num: 49
Candidate Starts for Darrell_31:
(Start: 49 @23551 has 762 MA's), (66, 23632), (105, 23845), (112, 23875), (119, 23899), (125,
23923), (135, 23950), (140, 23980),

Gene: DarthPhader_30 Start: 23567, Stop: 24016, Start Num: 49
Candidate Starts for DarthPhader_30:

(Start: 49 @23567 has 762 MA's), (66, 23645), (103, 23837), (105, 23858), (107, 23864), (112, 23888), (125, 23936), (135, 23963),

Gene: Datway_28 Start: 21657, Stop: 22103, Start Num: 49

Candidate Starts for Datway_28:

(Start: 49 @21657 has 762 MA's), (65, 21726), (70, 21753), (75, 21771), (87, 21825), (105, 21945), (112, 21975), (116, 21990), (125, 22023),

Gene: Deano_28 Start: 21635, Stop: 22081, Start Num: 49

Candidate Starts for Deano_28:

(Start: 49 @21635 has 762 MA's), (65, 21704), (66, 21710), (70, 21731), (76, 21752), (87, 21803), (105, 21923), (112, 21953), (119, 21977), (125, 22001), (140, 22058),

Gene: DekHockey33_31 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for DekHockey33_31:

(Start: 49 @21087 has 762 MA's), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: Deloris_30 Start: 22409, Stop: 22852, Start Num: 49

Candidate Starts for Deloris_30:

(1, 22097), (5, 22187), (13, 22274), (23, 22364), (Start: 24 @22370 has 1 MA's), (Start: 49 @22409 has 762 MA's), (66, 22484), (79, 22544), (103, 22676), (105, 22697), (125, 22775), (135, 22802), (140, 22832),

Gene: Demsculpinboyz_20 Start: 15401, Stop: 15766, Start Num: 55

Candidate Starts for Demsculpinboyz_20:

(27, 15293), (37, 15347), (Start: 55 @15401 has 8 MA's), (62, 15461), (64, 15467), (67, 15482), (69, 15497), (71, 15503), (77, 15524), (78, 15527), (104, 15644), (112, 15686), (120, 15719),

Gene: Dexes_29 Start: 23620, Stop: 24066, Start Num: 49

Candidate Starts for Dexes_29:

(Start: 49 @23620 has 762 MA's), (73, 23734), (74, 23737), (85, 23779), (86, 23785), (133, 24013),

Gene: Dhanush_28 Start: 21630, Stop: 22076, Start Num: 49

Candidate Starts for Dhanush_28:

(Start: 49 @21630 has 762 MA's), (65, 21699), (66, 21705), (70, 21726), (76, 21747), (87, 21798), (105, 21918), (112, 21948), (119, 21972), (125, 21996), (126, 21999), (140, 22053),

Gene: Dieselweasel_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for Dieselweasel_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: Dignity_31 Start: 22430, Stop: 22876, Start Num: 49

Candidate Starts for Dignity_31:

(1, 22118), (5, 22208), (Start: 24 @22391 has 1 MA's), (Start: 49 @22430 has 762 MA's), (66, 22505), (79, 22565), (103, 22697), (125, 22796), (135, 22823),

Gene: Dinger_24 Start: 17958, Stop: 18398, Start Num: 49

Candidate Starts for Dinger_24:

(11, 17739), (12, 17760), (30, 17877), (33, 17910), (Start: 49 @17958 has 762 MA's), (59, 17985), (85, 18111), (87, 18126), (93, 18153), (107, 18249), (116, 18288),

Gene: DirtyDunning_28 Start: 21623, Stop: 22069, Start Num: 49
Candidate Starts for DirtyDunning_28:
(Start: 49 @21623 has 762 MA's), (65, 21692), (66, 21698), (70, 21719), (76, 21740), (87, 21791),
(105, 21911), (112, 21941), (119, 21965), (125, 21989), (126, 21992), (140, 22046),

Gene: Discoknowium_25 Start: 21586, Stop: 22050, Start Num: 49
Candidate Starts for Discoknowium_25:
(Start: 49 @21586 has 762 MA's), (113, 21910), (116, 21922), (127, 21964), (141, 22021),

Gene: Dixon_25 Start: 20463, Stop: 20909, Start Num: 49
Candidate Starts for Dixon_25:
(Start: 49 @20463 has 762 MA's), (63, 20526), (65, 20535), (75, 20580), (93, 20661), (107, 20760),
(113, 20784), (139, 20883), (140, 20889),

Gene: DontArgue_27 Start: 19945, Stop: 20391, Start Num: 49
Candidate Starts for DontArgue_27:
(Start: 49 @19945 has 762 MA's), (65, 20014), (70, 20041), (87, 20113), (112, 20263), (125, 20311),

Gene: Doom_29 Start: 23728, Stop: 24174, Start Num: 49
Candidate Starts for Doom_29:
(Start: 49 @23728 has 762 MA's), (73, 23842), (74, 23845), (85, 23887), (86, 23893), (133, 24121),

Gene: Dorothea_32 Start: 21765, Stop: 22217, Start Num: 49
Candidate Starts for Dorothea_32:
(Start: 49 @21765 has 762 MA's), (61, 21822), (66, 21846), (86, 21930), (103, 22038), (112, 22089),
(125, 22137), (130, 22152),

Gene: DrFeelGood_27 Start: 23331, Stop: 23777, Start Num: 49
Candidate Starts for DrFeelGood_27:
(Start: 49 @23331 has 762 MA's), (73, 23445), (74, 23448), (85, 23490), (86, 23496), (133, 23724),

Gene: Drake55_31 Start: 22459, Stop: 22905, Start Num: 49
Candidate Starts for Drake55_31:
(3, 22228), (23, 22414), (Start: 49 @22459 has 762 MA's), (66, 22534), (75, 22573), (103, 22726),
(125, 22825), (135, 22852), (140, 22882),

Gene: Drake94_27 Start: 19681, Stop: 20127, Start Num: 49
Candidate Starts for Drake94_27:
(Start: 49 @19681 has 762 MA's), (65, 19750), (70, 19777), (87, 19849), (112, 19999), (125, 20047),

Gene: Dre3_19 Start: 17683, Stop: 18069, Start Num: 52
Candidate Starts for Dre3_19:
(Start: 24 @17575 has 1 MA's), (Start: 52 @17683 has 25 MA's), (63, 17755), (67, 17773), (71,
17794), (77, 17815), (78, 17818), (83, 17839), (99, 17911), (111, 17980), (117, 18001),

Gene: DreamCatcher_31 Start: 24345, Stop: 24791, Start Num: 49
Candidate Starts for DreamCatcher_31:
(Start: 49 @24345 has 762 MA's), (73, 24459), (74, 24462), (85, 24504), (86, 24510), (133, 24738),

Gene: DreamTeam1_29 Start: 21505, Stop: 21954, Start Num: 49
Candidate Starts for DreamTeam1_29:
(Start: 49 @21505 has 762 MA's), (66, 21583), (112, 21826), (125, 21874),

Gene: Dreamboat_29 Start: 22897, Stop: 23343, Start Num: 49
Candidate Starts for Dreamboat_29:
(Start: 49 @22897 has 762 MA's), (57, 22909), (73, 23011), (74, 23014), (85, 23056), (86, 23062),
(133, 23290),

Gene: DroogsArmy_29 Start: 24438, Stop: 24908, Start Num: 49
Candidate Starts for DroogsArmy_29:
(Start: 49 @24438 has 762 MA's), (Start: 54 @24447 has 5 MA's), (59, 24480), (66, 24528), (87,
24621), (138, 24864),

Gene: DropBear_28 Start: 21823, Stop: 22266, Start Num: 49
Candidate Starts for DropBear_28:
(14, 21637), (Start: 42 @21796 has 1 MA's), (Start: 49 @21823 has 762 MA's), (65, 21892), (70,
21919), (105, 22111), (107, 22117), (112, 22141), (125, 22189), (142, 22258),

Gene: Druantia_28 Start: 21628, Stop: 22074, Start Num: 49
Candidate Starts for Druantia_28:
(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796),
(105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: Dublin_24 Start: 21436, Stop: 21900, Start Num: 49
Candidate Starts for Dublin_24:
(Start: 49 @21436 has 762 MA's), (113, 21760), (116, 21772), (127, 21814), (140, 21862), (141,
21871),

Gene: DudeLittle_29 Start: 22116, Stop: 22562, Start Num: 49
Candidate Starts for DudeLittle_29:
(Start: 49 @22116 has 762 MA's), (66, 22191), (76, 22233), (79, 22251), (103, 22383), (125, 22482),
(135, 22509), (140, 22539),

Gene: Dulcie_27 Start: 22594, Stop: 23040, Start Num: 49
Candidate Starts for Dulcie_27:
(Start: 49 @22594 has 762 MA's), (73, 22708), (74, 22711), (85, 22753), (86, 22759), (133, 22987),

Gene: Duplo_32 Start: 21894, Stop: 22337, Start Num: 51
Candidate Starts for Duplo_32:
(Start: 51 @21894 has 21 MA's), (66, 21969), (79, 22029), (103, 22161), (112, 22212), (125, 22260),
(140, 22317), (143, 22329),

Gene: Dussy_29 Start: 23159, Stop: 23605, Start Num: 49
Candidate Starts for Dussy_29:
(Start: 49 @23159 has 762 MA's), (73, 23273), (74, 23276), (85, 23318), (86, 23324), (133, 23552),

Gene: DustyMartin_32 Start: 21655, Stop: 22101, Start Num: 49
Candidate Starts for DustyMartin_32:
(Start: 49 @21655 has 762 MA's), (65, 21724), (70, 21751), (87, 21823), (112, 21973), (125, 22021),

Gene: Dynamix_29 Start: 22976, Stop: 23422, Start Num: 49
Candidate Starts for Dynamix_29:
(Start: 49 @22976 has 762 MA's), (57, 22988), (73, 23090), (74, 23093), (85, 23135), (86, 23141),
(133, 23369),

Gene: EZMoney23_33 Start: 23996, Stop: 24445, Start Num: 50

Candidate Starts for EZMoney23_33:

(26, 23963), (Start: 50 @23996 has 23 MA's), (66, 24074), (103, 24266), (105, 24287), (112, 24317), (125, 24365), (135, 24392), (140, 24422),

Gene: Eagle_27 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Eagle_27:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: EagleEye_31 Start: 22746, Stop: 23192, Start Num: 49

Candidate Starts for EagleEye_31:

(Start: 49 @22746 has 762 MA's), (65, 22818), (66, 22824), (103, 23016), (112, 23067), (125, 23115), (135, 23142),

Gene: Eaglepride_29 Start: 21607, Stop: 22053, Start Num: 49

Candidate Starts for Eaglepride_29:

(Start: 49 @21607 has 762 MA's), (65, 21676), (70, 21703), (87, 21775), (112, 21925), (125, 21973),

Gene: Eapen_28 Start: 21626, Stop: 22072, Start Num: 49

Candidate Starts for Eapen_28:

(Start: 49 @21626 has 762 MA's), (65, 21695), (66, 21701), (70, 21722), (76, 21743), (87, 21794), (105, 21914), (112, 21944), (119, 21968), (125, 21992), (126, 21995), (140, 22049),

Gene: Ebony_29 Start: 22676, Stop: 23119, Start Num: 50

Candidate Starts for Ebony_29:

(Start: 50 @22676 has 23 MA's), (66, 22751), (103, 22943), (105, 22964), (125, 23042), (141, 23108),

Gene: Echild_29 Start: 22081, Stop: 22527, Start Num: 49

Candidate Starts for Echild_29:

(1, 21769), (3, 21850), (5, 21859), (13, 21946), (Start: 24 @22042 has 1 MA's), (Start: 49 @22081 has 762 MA's), (66, 22156), (79, 22216), (103, 22348), (125, 22447), (135, 22474), (140, 22504),

Gene: Edison31_28 Start: 21622, Stop: 22068, Start Num: 49

Candidate Starts for Edison31_28:

(Start: 49 @21622 has 762 MA's), (65, 21691), (70, 21718), (87, 21790), (112, 21940), (125, 21988),

Gene: EdogawaKiddo_29 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for EdogawaKiddo_29:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: Edtherson_29 Start: 23723, Stop: 24169, Start Num: 49

Candidate Starts for Edtherson_29:

(Start: 49 @23723 has 762 MA's), (73, 23837), (74, 23840), (85, 23882), (86, 23888), (133, 24116),

Gene: Eidsmoe_31 Start: 23623, Stop: 24072, Start Num: 49

Candidate Starts for Eidsmoe_31:

(Start: 31 @23584 has 1 MA's), (Start: 49 @23623 has 762 MA's), (66, 23704), (105, 23917), (112, 23947), (125, 23995), (140, 24052),

Gene: EITiger69_25 Start: 20789, Stop: 21253, Start Num: 49

Candidate Starts for EITiger69_25:

(Start: 49 @20789 has 762 MA's), (127, 21167), (136, 21188), (140, 21215), (141, 21224),

Gene: Elephantoon_30 Start: 22996, Stop: 23445, Start Num: 49
Candidate Starts for Elephantoon_30:
(Start: 49 @22996 has 762 MA's), (66, 23077), (105, 23290), (112, 23320), (119, 23344), (125, 23368), (135, 23395), (140, 23425),

Gene: Elinal_20 Start: 17112, Stop: 17501, Start Num: 49
Candidate Starts for Elinal_20:
(34, 17058), (Start: 49 @17112 has 762 MA's), (58, 17133), (64, 17187), (65, 17193), (67, 17202), (71, 17223), (79, 17259), (99, 17340), (108, 17400), (111, 17409), (117, 17430),

Gene: Elliott_19 Start: 17442, Stop: 17831, Start Num: 52
Candidate Starts for Elliott_19:
(Start: 52 @17442 has 25 MA's), (63, 17514), (64, 17517), (67, 17532), (71, 17553), (75, 17568), (79, 17589), (91, 17631), (104, 17697), (109, 17733), (111, 17739), (117, 17760), (129, 17802),

Gene: Emalyn_18 Start: 16747, Stop: 17136, Start Num: 52
Candidate Starts for Emalyn_18:
(Start: 45 @16738 has 11 MA's), (Start: 52 @16747 has 25 MA's), (63, 16819), (64, 16822), (67, 16837), (71, 16858), (75, 16873), (79, 16894), (102, 16996), (104, 17002), (111, 17044), (117, 17065), (129, 17107),

Gene: EmyBug_31 Start: 23623, Stop: 24072, Start Num: 49
Candidate Starts for EmyBug_31:
(Start: 31 @23584 has 1 MA's), (Start: 49 @23623 has 762 MA's), (66, 23704), (105, 23917), (112, 23947), (125, 23995), (140, 24052),

Gene: EpicPhail_30 Start: 22198, Stop: 22641, Start Num: 49
Candidate Starts for EpicPhail_30:
(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Epsocamisio_31 Start: 20965, Stop: 21408, Start Num: 49
Candidate Starts for Epsocamisio_31:
(Start: 49 @20965 has 762 MA's), (58, 20974), (65, 21034), (66, 21040), (81, 21103), (90, 21142), (112, 21283), (125, 21331),

Gene: Equemioh13_31 Start: 22445, Stop: 22891, Start Num: 49
Candidate Starts for Equemioh13_31:
(3, 22214), (23, 22400), (Start: 24 @22406 has 1 MA's), (Start: 49 @22445 has 762 MA's), (66, 22520), (75, 22559), (103, 22712), (125, 22811), (135, 22838), (140, 22868),

Gene: EricB_32 Start: 21757, Stop: 22209, Start Num: 49
Candidate Starts for EricB_32:
(Start: 49 @21757 has 762 MA's), (61, 21814), (66, 21838), (86, 21922), (103, 22030), (112, 22081), (125, 22129), (130, 22144),

Gene: Erik_24 Start: 17987, Stop: 18427, Start Num: 49
Candidate Starts for Erik_24:
(11, 17768), (12, 17789), (30, 17906), (33, 17939), (Start: 49 @17987 has 762 MA's), (59, 18014), (85, 18140), (87, 18155), (93, 18182), (107, 18278), (116, 18317),

Gene: Eris_27 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Eris_27:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Eros_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Eros_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Espica_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Espica_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Espresso_28 Start: 23040, Stop: 23486, Start Num: 49

Candidate Starts for Espresso_28:

(Start: 49 @23040 has 762 MA's), (73, 23154), (74, 23157), (85, 23199), (86, 23205), (133, 23433),

Gene: Et2Brutus_28 Start: 22636, Stop: 23079, Start Num: 50

Candidate Starts for Et2Brutus_28:

(Start: 50 @22636 has 23 MA's), (66, 22711), (103, 22903), (105, 22924), (125, 23002), (141, 23068),

Gene: Euphoria_28 Start: 22930, Stop: 23376, Start Num: 49

Candidate Starts for Euphoria_28:

(Start: 49 @22930 has 762 MA's), (73, 23044), (74, 23047), (85, 23089), (86, 23095), (133, 23323),

Gene: Eurydice_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Eurydice_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: EvilGenius_31 Start: 22398, Stop: 22844, Start Num: 49

Candidate Starts for EvilGenius_31:

(1, 22086), (5, 22176), (13, 22263), (Start: 24 @22359 has 1 MA's), (Start: 49 @22398 has 762 MA's), (66, 22473), (79, 22533), (103, 22665), (125, 22764), (135, 22791), (140, 22821),

Gene: Expelliarmus_24 Start: 20430, Stop: 20876, Start Num: 49

Candidate Starts for Expelliarmus_24:

(Start: 49 @20430 has 762 MA's), (63, 20493), (65, 20502), (70, 20529), (73, 20541), (75, 20547), (93, 20628), (107, 20727), (113, 20751), (139, 20850), (140, 20856),

Gene: ExplosioNervosa_31 Start: 23626, Stop: 24075, Start Num: 49

Candidate Starts for ExplosioNervosa_31:

(Start: 31 @23587 has 1 MA's), (Start: 49 @23626 has 762 MA's), (66, 23707), (105, 23920), (112, 23950), (125, 23998), (140, 24055),

Gene: Eyeball_28 Start: 22735, Stop: 23181, Start Num: 49

Candidate Starts for Eyeball_28:

(Start: 49 @22735 has 762 MA's), (73, 22849), (74, 22852), (85, 22894), (86, 22900), (133, 23128),

Gene: Fajezeel_30 Start: 23245, Stop: 23691, Start Num: 49

Candidate Starts for Fajezeel_30:

(Start: 49 @23245 has 762 MA's), (73, 23359), (74, 23362), (85, 23404), (86, 23410), (133, 23638),

Gene: Fameo_29 Start: 22085, Stop: 22531, Start Num: 49

Candidate Starts for Fameo_29:

(Start: 49 @22085 has 762 MA's), (66, 22160), (79, 22220), (103, 22352), (125, 22451), (135, 22478), (140, 22508),

Gene: Farber_30 Start: 22191, Stop: 22634, Start Num: 49

Candidate Starts for Farber_30:

(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509), (125, 22557), (142, 22626),

Gene: Fascinus_27 Start: 22799, Stop: 23245, Start Num: 49

Candidate Starts for Fascinus_27:

(Start: 49 @22799 has 762 MA's), (73, 22913), (74, 22916), (85, 22958), (86, 22964), (133, 23192),

Gene: Fayely_31 Start: 23590, Stop: 24039, Start Num: 49

Candidate Starts for Fayely_31:

(Start: 49 @23590 has 762 MA's), (66, 23671), (105, 23884), (112, 23914), (125, 23962), (140, 24019),

Gene: Feastonyeet_18 Start: 17156, Stop: 17548, Start Num: 49

Candidate Starts for Feastonyeet_18:

(Start: 49 @17156 has 762 MA's), (58, 17177), (64, 17231), (65, 17237), (67, 17246), (71, 17267), (75, 17282), (79, 17303), (108, 17444), (111, 17453), (117, 17474),

Gene: Fenn_29 Start: 24610, Stop: 25056, Start Num: 49

Candidate Starts for Fenn_29:

(Start: 49 @24610 has 762 MA's), (73, 24724), (74, 24727), (85, 24769), (86, 24775), (133, 25003),

Gene: Fernando_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for Fernando_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: Fibonacci_29 Start: 22630, Stop: 23073, Start Num: 50

Candidate Starts for Fibonacci_29:

(Start: 50 @22630 has 23 MA's), (66, 22705), (103, 22897), (105, 22918), (125, 22996), (141, 23062),

Gene: FiringLine_29 Start: 21907, Stop: 22353, Start Num: 49

Candidate Starts for FiringLine_29:

(Start: 49 @21907 has 762 MA's), (66, 21982), (79, 22042), (103, 22174), (125, 22273), (135, 22300), (140, 22330),

Gene: First_0029 Start: 22076, Stop: 22519, Start Num: 49

Candidate Starts for First_0029:

(Start: 49 @22076 has 762 MA's), (66, 22151), (79, 22211), (103, 22343), (105, 22364), (125, 22442), (135, 22469), (140, 22499), (143, 22511),

Gene: Flare16_29 Start: 22003, Stop: 22449, Start Num: 49

Candidate Starts for Flare16_29:

(3, 21772), (23, 21958), (Start: 24 @21964 has 1 MA's), (Start: 49 @22003 has 762 MA's), (66, 22078), (75, 22117), (103, 22270), (125, 22369), (135, 22396), (140, 22426),

Gene: Flaverint_29 Start: 22627, Stop: 23070, Start Num: 50

Candidate Starts for Flaverint_29:

(Start: 21 @22564 has 1 MA's), (Start: 50 @22627 has 23 MA's), (66, 22702), (103, 22894), (105, 22915), (125, 22993), (141, 23059),

Gene: Florean_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Florean_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Flux_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Flux_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: FlyCatcher_32 Start: 24743, Stop: 25210, Start Num: 49

Candidate Starts for FlyCatcher_32:

(Start: 49 @24743 has 762 MA's), (59, 24785), (66, 24833), (70, 24854), (79, 24893), (87, 24926), (88, 24929), (138, 25169),

Gene: ForGetIt_25 Start: 21402, Stop: 21866, Start Num: 49

Candidate Starts for ForGetIt_25:

(Start: 49 @21402 has 762 MA's), (75, 21519), (101, 21663), (127, 21780), (128, 21783), (137, 21807), (141, 21837),

Gene: Forsytheast_28 Start: 23169, Stop: 23615, Start Num: 49

Candidate Starts for Forsytheast_28:

(36, 23121), (Start: 49 @23169 has 762 MA's), (73, 23283), (74, 23286), (85, 23328), (86, 23334), (133, 23562),

Gene: Francis47_28 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for Francis47_28:

(Start: 49 @23482 has 762 MA's), (57, 23494), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: Fred313_28 Start: 21508, Stop: 21951, Start Num: 49

Candidate Starts for Fred313_28:

(14, 21322), (Start: 42 @21481 has 1 MA's), (Start: 49 @21508 has 762 MA's), (65, 21577), (70, 21604), (105, 21796), (107, 21802), (112, 21826), (125, 21874), (142, 21943),

Gene: Fribs8_20 Start: 18267, Stop: 18653, Start Num: 52

Candidate Starts for Fribs8_20:

(Start: 52 @18267 has 25 MA's), (63, 18339), (64, 18342), (67, 18357), (69, 18372), (71, 18378), (77, 18399), (78, 18402), (83, 18423), (96, 18477), (102, 18516), (111, 18564), (117, 18585),

Gene: Froghopper_29 Start: 22897, Stop: 23343, Start Num: 49

Candidate Starts for Froghopper_29:

(Start: 49 @22897 has 762 MA's), (73, 23011), (74, 23014), (85, 23056), (86, 23062), (133, 23290),

Gene: Fryberger_54 Start: 29656, Stop: 30054, Start Num: 46

Candidate Starts for Fryberger_54:

(Start: 46 @29656 has 1 MA's), (56, 29677), (64, 29737), (65, 29743), (69, 29767), (75, 29788), (77, 29794), (79, 29809), (92, 29872), (94, 29878), (96, 29899), (100, 29935), (115, 29998), (117, 30007),

(118, 30010),

Gene: Funston_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Funston_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Fushigi_29 Start: 23354, Stop: 23800, Start Num: 49

Candidate Starts for Fushigi_29:

(Start: 49 @23354 has 762 MA's), (73, 23468), (74, 23471), (85, 23513), (86, 23519), (133, 23747),

Gene: GTE2_17 Start: 16788, Stop: 17177, Start Num: 52

Candidate Starts for GTE2_17:

(Start: 45 @16779 has 11 MA's), (Start: 52 @16788 has 25 MA's), (63, 16860), (64, 16863), (67, 16878), (71, 16899), (75, 16914), (78, 16923), (79, 16935), (91, 16977), (104, 17043), (111, 17085), (117, 17106), (129, 17148),

Gene: Gadost_28 Start: 21631, Stop: 22077, Start Num: 49

Candidate Starts for Gadost_28:

(Start: 49 @21631 has 762 MA's), (65, 21700), (66, 21706), (70, 21727), (76, 21748), (87, 21799), (105, 21919), (112, 21949), (119, 21973), (125, 21997), (126, 22000), (140, 22054),

Gene: GageAP_30 Start: 23668, Stop: 24114, Start Num: 49

Candidate Starts for GageAP_30:

(Start: 49 @23668 has 762 MA's), (73, 23782), (74, 23785), (85, 23827), (86, 23833), (133, 24061),

Gene: Gail_29 Start: 21220, Stop: 21669, Start Num: 49

Candidate Starts for Gail_29:

(Start: 49 @21220 has 762 MA's), (66, 21298), (103, 21490), (112, 21541), (125, 21589), (135, 21616), (140, 21646),

Gene: Gandalf20_29 Start: 23773, Stop: 24219, Start Num: 49

Candidate Starts for Gandalf20_29:

(Start: 49 @23773 has 762 MA's), (73, 23887), (74, 23890), (85, 23932), (86, 23938), (133, 24166),

Gene: Garak_33 Start: 21765, Stop: 22217, Start Num: 49

Candidate Starts for Garak_33:

(Start: 49 @21765 has 762 MA's), (61, 21822), (66, 21846), (86, 21930), (103, 22038), (112, 22089), (125, 22137), (130, 22152),

Gene: GaugeLDP_31 Start: 23256, Stop: 23702, Start Num: 49

Candidate Starts for GaugeLDP_31:

(Start: 49 @23256 has 762 MA's), (66, 23331), (103, 23523), (105, 23544), (112, 23574), (125, 23622), (135, 23649), (140, 23679),

Gene: Gemma_30 Start: 22275, Stop: 22718, Start Num: 49

Candidate Starts for Gemma_30:

(Start: 49 @22275 has 762 MA's), (65, 22344), (70, 22371), (87, 22443), (105, 22563), (112, 22593), (125, 22641), (142, 22710),

Gene: George_24 Start: 21468, Stop: 21932, Start Num: 49

Candidate Starts for George_24:

(Start: 49 @21468 has 762 MA's), (113, 21792), (116, 21804), (127, 21846), (140, 21894), (141, 21903),

Gene: Georgie2_30 Start: 21898, Stop: 22344, Start Num: 49

Candidate Starts for Georgie2_30:

(Start: 49 @21898 has 762 MA's), (66, 21973), (79, 22033), (103, 22165), (125, 22264), (135, 22291), (140, 22321),

Gene: Ghoulboy_25 Start: 21717, Stop: 22181, Start Num: 49

Candidate Starts for Ghoulboy_25:

(Start: 49 @21717 has 762 MA's), (75, 21834), (101, 21978), (127, 22095), (128, 22098), (140, 22143), (141, 22152),

Gene: GiKK_22 Start: 16778, Stop: 17170, Start Num: 49

Candidate Starts for GiKK_22:

(Start: 49 @16778 has 762 MA's), (64, 16853), (67, 16868), (71, 16889), (75, 16904), (79, 16925), (111, 17075), (112, 17078), (117, 17096),

Gene: Gibbous_19 Start: 17683, Stop: 18069, Start Num: 52

Candidate Starts for Gibbous_19:

(Start: 24 @17575 has 1 MA's), (Start: 52 @17683 has 25 MA's), (63, 17755), (67, 17773), (71, 17794), (77, 17815), (78, 17818), (83, 17839), (99, 17911), (111, 17980), (117, 18001),

Gene: Gilberta_29 Start: 22624, Stop: 23067, Start Num: 50

Candidate Starts for Gilberta_29:

(Start: 21 @22561 has 1 MA's), (Start: 50 @22624 has 23 MA's), (66, 22699), (103, 22891), (105, 22912), (125, 22990), (141, 23056),

Gene: GingkoMaracino_30 Start: 22084, Stop: 22527, Start Num: 49

Candidate Starts for GingkoMaracino_30:

(Start: 49 @22084 has 762 MA's), (65, 22153), (70, 22180), (87, 22252), (105, 22372), (112, 22402), (125, 22450), (142, 22519),

Gene: Giroux_28 Start: 21759, Stop: 22202, Start Num: 49

Candidate Starts for Giroux_28:

(Start: 42 @21732 has 1 MA's), (Start: 49 @21759 has 762 MA's), (65, 21828), (70, 21855), (105, 22047), (112, 22077), (125, 22125), (135, 22152), (142, 22194),

Gene: Gladiator_32 Start: 21751, Stop: 22203, Start Num: 49

Candidate Starts for Gladiator_32:

(Start: 49 @21751 has 762 MA's), (61, 21808), (66, 21832), (86, 21916), (103, 22024), (112, 22075), (125, 22123), (130, 22138),

Gene: GoldHunter_20 Start: 17443, Stop: 17832, Start Num: 52

Candidate Starts for GoldHunter_20:

(Start: 52 @17443 has 25 MA's), (63, 17515), (64, 17518), (67, 17533), (71, 17554), (75, 17569), (79, 17590), (91, 17632), (104, 17698), (109, 17734), (111, 17740), (117, 17761), (129, 17803),

Gene: Gollum_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Gollum_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Gompeii16_28 Start: 23430, Stop: 23876, Start Num: 49
Candidate Starts for Gompeii16_28:
(Start: 49 @23430 has 762 MA's), (73, 23544), (74, 23547), (85, 23589), (86, 23595), (133, 23823),

Gene: Goose_28 Start: 21586, Stop: 22032, Start Num: 49
Candidate Starts for Goose_28:
(Start: 49 @21586 has 762 MA's), (65, 21655), (70, 21682), (87, 21754), (112, 21904), (125, 21952),

Gene: Graduation_30 Start: 23699, Stop: 24145, Start Num: 49
Candidate Starts for Graduation_30:
(Start: 49 @23699 has 762 MA's), (73, 23813), (74, 23816), (85, 23858), (86, 23864), (133, 24092),

Gene: GrecoEtereo_30 Start: 23739, Stop: 24185, Start Num: 49
Candidate Starts for GrecoEtereo_30:
(Start: 49 @23739 has 762 MA's), (57, 23751), (73, 23853), (74, 23856), (85, 23898), (86, 23904),
(133, 24132),

Gene: GreedyLawyer_32 Start: 21764, Stop: 22216, Start Num: 49
Candidate Starts for GreedyLawyer_32:
(Start: 49 @21764 has 762 MA's), (61, 21821), (66, 21845), (86, 21929), (103, 22037), (112, 22088),
(125, 22136), (130, 22151),

Gene: Greg_30 Start: 23245, Stop: 23691, Start Num: 49
Candidate Starts for Greg_30:
(Start: 49 @23245 has 762 MA's), (73, 23359), (74, 23362), (85, 23404), (86, 23410), (133, 23638),

Gene: Grif_30 Start: 22281, Stop: 22724, Start Num: 49
Candidate Starts for Grif_30:
(Start: 49 @22281 has 762 MA's), (65, 22350), (70, 22377), (87, 22449), (105, 22569), (112, 22599),
(125, 22647), (142, 22716),

Gene: Groundhog_24 Start: 20431, Stop: 20877, Start Num: 49
Candidate Starts for Groundhog_24:
(Start: 49 @20431 has 762 MA's), (63, 20494), (65, 20503), (70, 20530), (73, 20542), (75, 20548), (93,
20629), (107, 20728), (113, 20752), (139, 20851), (140, 20857),

Gene: Groupthink_31 Start: 22279, Stop: 22722, Start Num: 49
Candidate Starts for Groupthink_31:
(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597),
(125, 22645), (142, 22714),

Gene: Grub_30 Start: 22190, Stop: 22633, Start Num: 49
Candidate Starts for Grub_30:
(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508),
(125, 22556), (142, 22625),

Gene: Grum1_30 Start: 22194, Stop: 22637, Start Num: 49
Candidate Starts for Grum1_30:
(Start: 49 @22194 has 762 MA's), (65, 22263), (70, 22290), (87, 22362), (105, 22482), (112, 22512),
(125, 22560),

Gene: Gruunaga_32 Start: 21751, Stop: 22203, Start Num: 49
Candidate Starts for Gruunaga_32:

(Start: 49 @21751 has 762 MA's), (61, 21808), (66, 21832), (86, 21916), (103, 22024), (112, 22075), (125, 22123), (130, 22138),

Gene: GtownJaz_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for GtownJaz_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: Guey18_59 Start: 30848, Stop: 31246, Start Num: 45

Candidate Starts for Guey18_59:

(Start: 45 @30848 has 11 MA's), (56, 30869), (64, 30929), (65, 30935), (69, 30959), (75, 30980), (77, 30986), (79, 31001), (92, 31064), (94, 31070), (96, 31091), (100, 31127), (115, 31190), (117, 31199), (118, 31202),

Gene: Gwendoluna_30 Start: 24887, Stop: 25333, Start Num: 49

Candidate Starts for Gwendoluna_30:

(Start: 49 @24887 has 762 MA's), (73, 25001), (74, 25004), (85, 25046), (86, 25052), (133, 25280),

Gene: Gyzlar_30 Start: 24193, Stop: 24639, Start Num: 49

Candidate Starts for Gyzlar_30:

(Start: 49 @24193 has 762 MA's), (73, 24307), (74, 24310), (85, 24352), (86, 24358), (133, 24586),

Gene: HINdeR_28 Start: 24539, Stop: 25006, Start Num: 47

Candidate Starts for HINdeR_28:

(Start: 47 @24539 has 6 MA's), (Start: 54 @24548 has 5 MA's), (59, 24581), (66, 24629), (138, 24965),

Gene: HamSlice_27 Start: 21625, Stop: 22071, Start Num: 49

Candidate Starts for HamSlice_27:

(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994), (140, 22048),

Gene: Hami1_30 Start: 23339, Stop: 23785, Start Num: 49

Candidate Starts for Hami1_30:

(Start: 49 @23339 has 762 MA's), (57, 23351), (73, 23453), (74, 23456), (85, 23498), (86, 23504), (133, 23732),

Gene: Hammer_32 Start: 21766, Stop: 22218, Start Num: 49

Candidate Starts for Hammer_32:

(Start: 49 @21766 has 762 MA's), (61, 21823), (66, 21847), (86, 21931), (103, 22039), (112, 22090), (125, 22138), (130, 22153),

Gene: HanShotFirst_28 Start: 22873, Stop: 23319, Start Num: 49

Candidate Starts for HanShotFirst_28:

(Start: 49 @22873 has 762 MA's), (73, 22987), (74, 22990), (85, 23032), (86, 23038), (133, 23266),

Gene: Hanray_30 Start: 23561, Stop: 24010, Start Num: 49

Candidate Starts for Hanray_30:

(Start: 49 @23561 has 762 MA's), (66, 23642), (105, 23855), (112, 23885), (125, 23933), (140, 23990),

Gene: Happiness_28 Start: 21633, Stop: 22079, Start Num: 49

Candidate Starts for Happiness_28:

(Start: 49 @21633 has 762 MA's), (65, 21702), (66, 21708), (70, 21729), (76, 21750), (87, 21801), (105, 21921), (112, 21951), (114, 21957), (119, 21975), (125, 21999), (126, 22002),

Gene: Harlequin_24 Start: 17938, Stop: 18378, Start Num: 49

Candidate Starts for Harlequin_24:

(11, 17719), (12, 17740), (30, 17857), (Start: 49 @17938 has 762 MA's), (59, 17965), (85, 18091), (87, 18106), (93, 18133), (107, 18229), (116, 18268),

Gene: HarryHoudini_31 Start: 22462, Stop: 22908, Start Num: 49

Candidate Starts for HarryHoudini_31:

(23, 22417), (Start: 49 @22462 has 762 MA's), (66, 22537), (75, 22576), (103, 22729), (125, 22828), (135, 22855),

Gene: HarryOW_29 Start: 23327, Stop: 23773, Start Num: 49

Candidate Starts for HarryOW_29:

(Start: 49 @23327 has 762 MA's), (73, 23441), (74, 23444), (85, 23486), (86, 23492), (133, 23720),

Gene: HashRod_31 Start: 22285, Stop: 22728, Start Num: 49

Candidate Starts for HashRod_31:

(Start: 49 @22285 has 762 MA's), (65, 22354), (70, 22381), (87, 22453), (105, 22573), (112, 22603), (125, 22651), (142, 22720),

Gene: HaveUMetTed_31 Start: 22272, Stop: 22715, Start Num: 49

Candidate Starts for HaveUMetTed_31:

(Start: 49 @22272 has 762 MA's), (65, 22341), (70, 22368), (87, 22440), (105, 22560), (112, 22590), (125, 22638), (142, 22707),

Gene: Heathen_28 Start: 21564, Stop: 22007, Start Num: 49

Candidate Starts for Heathen_28:

(14, 21378), (Start: 42 @21537 has 1 MA's), (Start: 49 @21564 has 762 MA's), (65, 21633), (70, 21660), (105, 21852), (107, 21858), (112, 21882), (125, 21930), (142, 21999),

Gene: Heffalump_31 Start: 23827, Stop: 24273, Start Num: 49

Candidate Starts for Heffalump_31:

(Start: 49 @23827 has 762 MA's), (66, 23902), (79, 23962), (103, 24094), (125, 24193), (135, 24220), (140, 24250),

Gene: HelDan_28 Start: 21816, Stop: 22259, Start Num: 49

Candidate Starts for HelDan_28:

(14, 21630), (Start: 42 @21789 has 1 MA's), (Start: 49 @21816 has 762 MA's), (65, 21885), (70, 21912), (105, 22104), (107, 22110), (112, 22134), (125, 22182), (142, 22251),

Gene: Heliosoles_30 Start: 22279, Stop: 22722, Start Num: 49

Candidate Starts for Heliosoles_30:

(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597), (125, 22645), (142, 22714),

Gene: Helmet_33 Start: 21765, Stop: 22217, Start Num: 49

Candidate Starts for Helmet_33:

(Start: 49 @21765 has 762 MA's), (61, 21822), (66, 21846), (86, 21930), (103, 22038), (112, 22089), (125, 22137), (130, 22152),

Gene: Herbertwm_26 Start: 20602, Stop: 21051, Start Num: 49

Candidate Starts for Herbertwm_26:

(Start: 49 @20602 has 762 MA's), (61, 20656), (66, 20680), (103, 20872), (125, 20971), (135, 20998), (140, 21028),

Gene: Hercules11_30 Start: 22205, Stop: 22648, Start Num: 49

Candidate Starts for Hercules11_30:

(Start: 49 @22205 has 762 MA's), (65, 22274), (70, 22301), (87, 22373), (105, 22493), (112, 22523), (125, 22571), (142, 22640),

Gene: Hermia_31 Start: 24455, Stop: 24901, Start Num: 49

Candidate Starts for Hermia_31:

(Start: 49 @24455 has 762 MA's), (57, 24467), (73, 24569), (74, 24572), (85, 24614), (86, 24620), (133, 24848),

Gene: HermioneGrange_28 Start: 22901, Stop: 23347, Start Num: 49

Candidate Starts for HermioneGrange_28:

(Start: 49 @22901 has 762 MA's), (73, 23015), (74, 23018), (85, 23060), (86, 23066), (133, 23294),

Gene: Hexamo_32 Start: 21733, Stop: 22185, Start Num: 49

Candidate Starts for Hexamo_32:

(Start: 49 @21733 has 762 MA's), (61, 21790), (66, 21814), (86, 21898), (103, 22006), (112, 22057), (125, 22105), (130, 22120),

Gene: Hexbug_21 Start: 17464, Stop: 17856, Start Num: 49

Candidate Starts for Hexbug_21:

(34, 17410), (Start: 49 @17464 has 762 MA's), (58, 17485), (63, 17536), (64, 17539), (67, 17554), (71, 17575), (75, 17590), (79, 17611), (91, 17653), (104, 17719), (111, 17761), (114, 17770), (117, 17782),

Gene: HippoPololi_21 Start: 18335, Stop: 18721, Start Num: 52

Candidate Starts for HippoPololi_21:

(Start: 52 @18335 has 25 MA's), (63, 18407), (64, 18410), (69, 18440), (71, 18446), (75, 18461), (77, 18467), (78, 18470), (83, 18491), (99, 18563), (111, 18632), (117, 18653),

Gene: Hiro_24 Start: 18244, Stop: 18684, Start Num: 49

Candidate Starts for Hiro_24:

(11, 18025), (12, 18046), (30, 18163), (33, 18196), (Start: 49 @18244 has 762 MA's), (59, 18271), (85, 18397), (87, 18412), (93, 18439), (107, 18535), (116, 18574),

Gene: Horex_30 Start: 23561, Stop: 24010, Start Num: 49

Candidate Starts for Horex_30:

(Start: 49 @23561 has 762 MA's), (66, 23642), (105, 23855), (112, 23885), (125, 23933), (140, 23990),

Gene: Holli_28 Start: 21417, Stop: 21863, Start Num: 49

Candidate Starts for Holli_28:

(Start: 49 @21417 has 762 MA's), (65, 21486), (66, 21492), (70, 21513), (76, 21534), (87, 21585), (105, 21705), (112, 21735), (119, 21759), (125, 21783), (126, 21786), (140, 21840),

Gene: Homines_28 Start: 23226, Stop: 23672, Start Num: 49

Candidate Starts for Homines_28:

(Start: 49 @23226 has 762 MA's), (73, 23340), (74, 23343), (85, 23385), (86, 23391), (133, 23619),

Gene: Hookmount_29 Start: 22278, Stop: 22721, Start Num: 49

Candidate Starts for Hookmount_29:

(Start: 49 @22278 has 762 MA's), (65, 22347), (70, 22374), (87, 22446), (105, 22566), (112, 22596), (125, 22644),

Gene: Hoot_32 Start: 21743, Stop: 22195, Start Num: 49

Candidate Starts for Hoot_32:

(Start: 49 @21743 has 762 MA's), (61, 21800), (66, 21824), (86, 21908), (103, 22016), (112, 22067), (125, 22115), (130, 22130),

Gene: Hope4ever_28 Start: 23342, Stop: 23788, Start Num: 49

Candidate Starts for Hope4ever_28:

(Start: 49 @23342 has 762 MA's), (57, 23354), (73, 23456), (74, 23459), (85, 23501), (86, 23507), (133, 23735),

Gene: Horseradish_20 Start: 16993, Stop: 17382, Start Num: 52

Candidate Starts for Horseradish_20:

(Start: 45 @16984 has 11 MA's), (Start: 52 @16993 has 25 MA's), (63, 17065), (64, 17068), (67, 17083), (71, 17104), (75, 17119), (77, 17125), (83, 17149), (111, 17290), (117, 17311), (129, 17353),

Gene: HortumSL17_31 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for HortumSL17_31:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: Houdini22_28 Start: 21631, Stop: 22077, Start Num: 49

Candidate Starts for Houdini22_28:

(Start: 49 @21631 has 762 MA's), (65, 21700), (66, 21706), (70, 21727), (76, 21748), (87, 21799), (105, 21919), (112, 21949), (119, 21973), (125, 21997), (126, 22000), (140, 22054),

Gene: HuhtaEnerson15_25 Start: 21468, Stop: 21932, Start Num: 49

Candidate Starts for HuhtaEnerson15_25:

(Start: 49 @21468 has 762 MA's), (113, 21792), (116, 21804), (127, 21846), (136, 21867), (140, 21894), (141, 21903),

Gene: Hutc2_29 Start: 22630, Stop: 23073, Start Num: 50

Candidate Starts for Hutc2_29:

(Start: 50 @22630 has 23 MA's), (66, 22705), (103, 22897), (105, 22918), (125, 22996), (141, 23062),

Gene: ICleared_28 Start: 21625, Stop: 22071, Start Num: 49

Candidate Starts for ICleared_28:

(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994),

Gene: ILeeKay_30 Start: 23106, Stop: 23552, Start Num: 49

Candidate Starts for ILeeKay_30:

(Start: 49 @23106 has 762 MA's), (57, 23118), (73, 23220), (74, 23223), (85, 23265), (86, 23271), (133, 23499),

Gene: Iceman_29 Start: 21916, Stop: 22362, Start Num: 49

Candidate Starts for Iceman_29:

(Start: 49 @21916 has 762 MA's), (65, 21985), (66, 21991), (70, 22012), (76, 22033), (87, 22084), (105, 22204), (112, 22234), (119, 22258), (125, 22282), (126, 22285), (140, 22339),

Gene: Ichabod_29 Start: 23130, Stop: 23576, Start Num: 49
Candidate Starts for Ichabod_29:
(Start: 49 @23130 has 762 MA's), (57, 23142), (73, 23244), (74, 23247), (85, 23289), (86, 23295),
(133, 23523),

Gene: Idleandcovert_28 Start: 21759, Stop: 22202, Start Num: 49
Candidate Starts for Idleandcovert_28:
(Start: 42 @21732 has 1 MA's), (Start: 49 @21759 has 762 MA's), (65, 21828), (70, 21855), (105,
22047), (112, 22077), (125, 22125), (135, 22152), (142, 22194),

Gene: IgnatiusPatJac_28 Start: 23188, Stop: 23634, Start Num: 49
Candidate Starts for IgnatiusPatJac_28:
(Start: 49 @23188 has 762 MA's), (73, 23302), (74, 23305), (85, 23347), (86, 23353), (133, 23581),

Gene: Indra_32 Start: 21766, Stop: 22218, Start Num: 49
Candidate Starts for Indra_32:
(Start: 49 @21766 has 762 MA's), (61, 21823), (66, 21847), (86, 21931), (103, 22039), (112, 22090),
(125, 22138), (130, 22153),

Gene: Insomnia_29 Start: 22622, Stop: 23128, Start Num: 21
Candidate Starts for Insomnia_29:
(Start: 21 @22622 has 1 MA's), (Start: 50 @22685 has 23 MA's), (66, 22760), (103, 22952), (105,
22973), (125, 23051), (141, 23117),

Gene: Inyanga_27 Start: 22709, Stop: 23155, Start Num: 49
Candidate Starts for Inyanga_27:
(Start: 49 @22709 has 762 MA's), (57, 22721), (73, 22823), (74, 22826), (85, 22868), (86, 22874),
(133, 23102),

Gene: Iracema64_29 Start: 21938, Stop: 22384, Start Num: 49
Candidate Starts for Iracema64_29:
(Start: 49 @21938 has 762 MA's), (65, 22007), (66, 22013), (70, 22034), (76, 22055), (87, 22106),
(105, 22226), (112, 22256), (119, 22280), (125, 22304), (126, 22307), (140, 22361),

Gene: IronMan_31 Start: 23534, Stop: 23980, Start Num: 47
Candidate Starts for IronMan_31:
(Start: 47 @23534 has 6 MA's), (66, 23609), (75, 23648), (79, 23669), (103, 23801), (112, 23852),
(125, 23900), (135, 23927), (140, 23957),

Gene: Isca_28 Start: 21670, Stop: 22140, Start Num: 42
Candidate Starts for Isca_28:
(14, 21511), (Start: 42 @21670 has 1 MA's), (Start: 49 @21697 has 762 MA's), (65, 21766), (70,
21793), (105, 21985), (107, 21991), (112, 22015), (125, 22063), (142, 22132),

Gene: Isiphiwo_32 Start: 21835, Stop: 22287, Start Num: 49
Candidate Starts for Isiphiwo_32:
(Start: 49 @21835 has 762 MA's), (61, 21892), (66, 21916), (86, 22000), (103, 22108), (112, 22159),
(125, 22207), (130, 22222),

Gene: Iwokeuplikedis_30 Start: 21724, Stop: 22167, Start Num: 49
Candidate Starts for Iwokeuplikedis_30:
(23, 21679), (Start: 49 @21724 has 762 MA's), (66, 21799), (103, 21991), (105, 22012), (125, 22090),
(135, 22117), (140, 22147), (143, 22159),

Gene: JC27_30 Start: 23842, Stop: 24288, Start Num: 49

Candidate Starts for JC27_30:

(Start: 49 @23842 has 762 MA's), (73, 23956), (74, 23959), (85, 24001), (86, 24007), (133, 24235),

Gene: JF2_28 Start: 21448, Stop: 21891, Start Num: 49

Candidate Starts for JF2_28:

(14, 21262), (Start: 42 @21421 has 1 MA's), (Start: 49 @21448 has 762 MA's), (65, 21517), (70, 21544), (105, 21736), (107, 21742), (112, 21766), (125, 21814), (142, 21883),

Gene: JF4_28 Start: 21448, Stop: 21891, Start Num: 49

Candidate Starts for JF4_28:

(14, 21262), (Start: 42 @21421 has 1 MA's), (Start: 49 @21448 has 762 MA's), (65, 21517), (70, 21544), (105, 21736), (107, 21742), (112, 21766), (125, 21814), (142, 21883),

Gene: JHC117_30 Start: 22196, Stop: 22639, Start Num: 49

Candidate Starts for JHC117_30:

(Start: 49 @22196 has 762 MA's), (65, 22265), (70, 22292), (87, 22364), (105, 22484), (112, 22514), (125, 22562), (142, 22631),

Gene: JSwag_31 Start: 20951, Stop: 21394, Start Num: 49

Candidate Starts for JSwag_31:

(Start: 49 @20951 has 762 MA's), (58, 20960), (65, 21020), (66, 21026), (81, 21089), (90, 21128), (112, 21269), (125, 21317),

Gene: Jaan_32 Start: 23923, Stop: 24369, Start Num: 47

Candidate Starts for Jaan_32:

(Start: 47 @23923 has 6 MA's), (66, 23998), (75, 24037), (79, 24058), (103, 24190), (112, 24241), (125, 24289), (135, 24316),

Gene: Jabbawokkie_22 Start: 15931, Stop: 16296, Start Num: 55

Candidate Starts for Jabbawokkie_22:

(27, 15823), (37, 15877), (Start: 55 @15931 has 8 MA's), (62, 15991), (64, 15997), (67, 16012), (69, 16027), (71, 16033), (77, 16054), (78, 16057), (104, 16174), (112, 16216), (120, 16249),

Gene: Jabiru_25 Start: 20839, Stop: 21303, Start Num: 49

Candidate Starts for Jabiru_25:

(Start: 49 @20839 has 762 MA's), (127, 21217), (128, 21220), (140, 21265), (141, 21274),

Gene: Jabith_29 Start: 22685, Stop: 23128, Start Num: 50

Candidate Starts for Jabith_29:

(Start: 50 @22685 has 23 MA's), (66, 22760), (103, 22952), (105, 22973), (125, 23051), (141, 23117),

Gene: JackSparrow_29 Start: 23304, Stop: 23750, Start Num: 49

Candidate Starts for JackSparrow_29:

(Start: 49 @23304 has 762 MA's), (73, 23418), (74, 23421), (85, 23463), (86, 23469), (133, 23697),

Gene: Jamzy_22 Start: 16788, Stop: 17180, Start Num: 49

Candidate Starts for Jamzy_22:

(34, 16734), (Start: 49 @16788 has 762 MA's), (58, 16809), (64, 16863), (67, 16878), (71, 16899), (75, 16914), (111, 17085), (114, 17094), (117, 17106),

Gene: Jasper_29 Start: 22783, Stop: 23229, Start Num: 49

Candidate Starts for Jasper_29:

(Start: 49 @22783 has 762 MA's), (57, 22795), (73, 22897), (74, 22900), (85, 22942), (86, 22948), (133, 23176),

Gene: Jaykayelowell_28 Start: 21623, Stop: 22069, Start Num: 49

Candidate Starts for Jaykayelowell_28:

(Start: 49 @21623 has 762 MA's), (65, 21692), (66, 21698), (70, 21719), (76, 21740), (87, 21791), (105, 21911), (112, 21941), (119, 21965), (125, 21989), (126, 21992), (140, 22046),

Gene: Jeeves_29 Start: 21242, Stop: 21691, Start Num: 49

Candidate Starts for Jeeves_29:

(Start: 49 @21242 has 762 MA's), (66, 21320), (103, 21512), (112, 21563), (125, 21611), (135, 21638), (140, 21668),

Gene: Jeffabunny_32 Start: 21785, Stop: 22237, Start Num: 49

Candidate Starts for Jeffabunny_32:

(Start: 49 @21785 has 762 MA's), (61, 21842), (66, 21866), (86, 21950), (103, 22058), (112, 22109), (125, 22157), (130, 22172),

Gene: JenCasNa_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for JenCasNa_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: JeppNRM_31 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for JeppNRM_31:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643), (142, 22712),

Gene: Jerm_31 Start: 22422, Stop: 22868, Start Num: 49

Candidate Starts for Jerm_31:

(Start: 24 @22383 has 1 MA's), (Start: 49 @22422 has 762 MA's), (66, 22497), (79, 22557), (103, 22689), (125, 22788), (135, 22815),

Gene: Jerm2_29 Start: 23173, Stop: 23619, Start Num: 49

Candidate Starts for Jerm2_29:

(Start: 49 @23173 has 762 MA's), (73, 23287), (74, 23290), (85, 23332), (86, 23338), (133, 23566),

Gene: Jester_24 Start: 17932, Stop: 18372, Start Num: 49

Candidate Starts for Jester_24:

(11, 17713), (12, 17734), (30, 17851), (Start: 49 @17932 has 762 MA's), (59, 17959), (85, 18085), (87, 18100), (93, 18127), (107, 18223), (116, 18262),

Gene: JetBlade_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for JetBlade_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: JewelBug_32 Start: 21769, Stop: 22221, Start Num: 49

Candidate Starts for JewelBug_32:

(Start: 49 @21769 has 762 MA's), (61, 21826), (66, 21850), (86, 21934), (103, 22042), (112, 22093), (125, 22141), (130, 22156),

Gene: Jiawan_30 Start: 23593, Stop: 24042, Start Num: 49
Candidate Starts for Jiawan_30:
(Start: 49 @23593 has 762 MA's), (66, 23674), (105, 23887), (112, 23917), (125, 23965), (140, 24022),

Gene: Jobu08_30 Start: 22270, Stop: 22713, Start Num: 49
Candidate Starts for Jobu08_30:
(Start: 49 @22270 has 762 MA's), (65, 22339), (70, 22366), (87, 22438), (105, 22558), (112, 22588), (125, 22636), (142, 22705),

Gene: JoongJeon_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for JoongJeon_28:
(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Jordennis_32 Start: 21754, Stop: 22206, Start Num: 49
Candidate Starts for Jordennis_32:
(Start: 49 @21754 has 762 MA's), (61, 21811), (66, 21835), (86, 21919), (103, 22027), (112, 22078), (125, 22126), (130, 22141),

Gene: Jorgensen_28 Start: 22837, Stop: 23283, Start Num: 49
Candidate Starts for Jorgensen_28:
(Start: 49 @22837 has 762 MA's), (73, 22951), (74, 22954), (85, 22996), (86, 23002), (133, 23230),

Gene: Joselito_29 Start: 22633, Stop: 23076, Start Num: 50
Candidate Starts for Joselito_29:
(Start: 21 @22570 has 1 MA's), (Start: 50 @22633 has 23 MA's), (66, 22708), (103, 22900), (105, 22921), (125, 22999), (141, 23065),

Gene: JoshKayV_31 Start: 22392, Stop: 22838, Start Num: 49
Candidate Starts for JoshKayV_31:
(1, 22080), (5, 22170), (13, 22257), (Start: 24 @22353 has 1 MA's), (Start: 49 @22392 has 762 MA's), (66, 22467), (79, 22527), (103, 22659), (125, 22758), (135, 22785), (140, 22815),

Gene: Journey13_27 Start: 21141, Stop: 21584, Start Num: 51
Candidate Starts for Journey13_27:
(Start: 51 @21141 has 21 MA's), (79, 21276), (103, 21408), (112, 21459), (125, 21507), (140, 21564),

Gene: Jovo_25 Start: 21658, Stop: 22122, Start Num: 49
Candidate Starts for Jovo_25:
(Start: 49 @21658 has 762 MA's), (75, 21775), (101, 21919), (127, 22036), (128, 22039), (137, 22063), (141, 22093),

Gene: Jsquared_28 Start: 20955, Stop: 21398, Start Num: 51
Candidate Starts for Jsquared_28:
(Start: 24 @20913 has 1 MA's), (Start: 51 @20955 has 21 MA's), (66, 21030), (75, 21069), (79, 21090), (103, 21222), (112, 21273), (125, 21321), (140, 21378),

Gene: Juicebox_20 Start: 19400, Stop: 19786, Start Num: 55
Candidate Starts for Juicebox_20:
(Start: 55 @19400 has 8 MA's), (59, 19430), (74, 19517), (80, 19541), (102, 19640),

Gene: JuliaChild_30 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for JuliaChild_30:

(Start: 49 @23482 has 762 MA's), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: KADY_31 Start: 22282, Stop: 22725, Start Num: 49

Candidate Starts for KADY_31:

(Start: 49 @22282 has 762 MA's), (65, 22351), (70, 22378), (87, 22450), (105, 22570), (112, 22600), (125, 22648), (142, 22717),

Gene: KBG_29 Start: 23836, Stop: 24282, Start Num: 49

Candidate Starts for KBG_29:

(Start: 49 @23836 has 762 MA's), (57, 23848), (73, 23950), (74, 23953), (85, 23995), (86, 24001), (133, 24229),

Gene: KFPoly_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for KFPoly_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: KSSJEB_28 Start: 22730, Stop: 23176, Start Num: 49

Candidate Starts for KSSJEB_28:

(Start: 49 @22730 has 762 MA's), (57, 22742), (73, 22844), (74, 22847), (85, 22889), (86, 22895), (133, 23123),

Gene: Kachowdy_28 Start: 21816, Stop: 22259, Start Num: 49

Candidate Starts for Kachowdy_28:

(14, 21630), (Start: 42 @21789 has 1 MA's), (Start: 49 @21816 has 762 MA's), (65, 21885), (70, 21912), (105, 22104), (107, 22110), (112, 22134), (125, 22182), (142, 22251),

Gene: Kalb97_31 Start: 22278, Stop: 22721, Start Num: 49

Candidate Starts for Kalb97_31:

(Start: 49 @22278 has 762 MA's), (65, 22347), (70, 22374), (87, 22446), (105, 22566), (112, 22596), (125, 22644), (142, 22713),

Gene: Kalnoky_31 Start: 22279, Stop: 22722, Start Num: 49

Candidate Starts for Kalnoky_31:

(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597), (125, 22645), (142, 22714),

Gene: Kalpine_32 Start: 23773, Stop: 24219, Start Num: 49

Candidate Starts for Kalpine_32:

(29, 23749), (Start: 49 @23773 has 762 MA's), (66, 23848), (67, 23851), (75, 23887), (79, 23908), (103, 24040), (105, 24061), (112, 24091), (125, 24139), (135, 24166), (140, 24196),

Gene: Kampy_28 Start: 21625, Stop: 22071, Start Num: 49

Candidate Starts for Kampy_28:

(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994),

Gene: Kanely_29 Start: 23540, Stop: 23986, Start Num: 49

Candidate Starts for Kanely_29:

(Start: 49 @23540 has 762 MA's), (73, 23654), (74, 23657), (85, 23699), (86, 23705), (133, 23933),

Gene: Katalie136_28 Start: 21648, Stop: 22094, Start Num: 49

Candidate Starts for Katalie136_28:

(Start: 49 @21648 has 762 MA's), (65, 21717), (70, 21744), (75, 21762), (87, 21816), (105, 21936), (112, 21966), (116, 21981), (125, 22014),

Gene: KatherineG_31 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for KatherineG_31:

(Start: 49 @21087 has 762 MA's), (58, 21096), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: KayGee_19 Start: 17112, Stop: 17501, Start Num: 49

Candidate Starts for KayGee_19:

(34, 17058), (Start: 49 @17112 has 762 MA's), (58, 17133), (64, 17187), (65, 17193), (67, 17202), (71, 17223), (79, 17259), (99, 17340), (108, 17400), (111, 17409), (117, 17430),

Gene: Kazan_32 Start: 21770, Stop: 22222, Start Num: 49

Candidate Starts for Kazan_32:

(Start: 49 @21770 has 762 MA's), (61, 21827), (66, 21851), (86, 21935), (103, 22043), (112, 22094), (125, 22142), (130, 22157),

Gene: Keelan_52 Start: 29645, Stop: 30055, Start Num: 44

Candidate Starts for Keelan_52:

(Start: 44 @29645 has 1 MA's), (56, 29663), (64, 29723), (65, 29729), (69, 29753), (75, 29774), (78, 29783), (79, 29795), (96, 29888), (102, 29933), (106, 29960), (115, 29990), (132, 30047),

Gene: Kenmech_31 Start: 24246, Stop: 24692, Start Num: 49

Candidate Starts for Kenmech_31:

(Start: 49 @24246 has 762 MA's), (73, 24360), (74, 24363), (85, 24405), (86, 24411), (133, 24639),

Gene: Kerberos_32 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for Kerberos_32:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: Keziacharles14_29 Start: 21647, Stop: 22096, Start Num: 49

Candidate Starts for Keziacharles14_29:

(Start: 49 @21647 has 762 MA's), (66, 21725), (82, 21794), (97, 21869), (103, 21917), (110, 21962), (112, 21968), (125, 22016),

Gene: Killigrew_26 Start: 22452, Stop: 22898, Start Num: 49

Candidate Starts for Killigrew_26:

(Start: 49 @22452 has 762 MA's), (57, 22464), (73, 22566), (74, 22569), (85, 22611), (86, 22617), (133, 22845),

Gene: Kimona_25 Start: 19711, Stop: 20160, Start Num: 49

Candidate Starts for Kimona_25:

(Start: 49 @19711 has 762 MA's), (70, 19810), (74, 19825), (116, 20047), (119, 20056), (125, 20080),

Gene: KingCyrus_31 Start: 22389, Stop: 22835, Start Num: 49

Candidate Starts for KingCyrus_31:

(1, 22077), (5, 22167), (13, 22254), (Start: 24 @22350 has 1 MA's), (Start: 49 @22389 has 762 MA's), (66, 22464), (79, 22524), (103, 22656), (125, 22755), (135, 22782), (140, 22812),

Gene: Kingmustik0402_28 Start: 21619, Stop: 22065, Start Num: 49

Candidate Starts for Kingmustik0402_28:

(Start: 49 @21619 has 762 MA's), (65, 21688), (66, 21694), (70, 21715), (76, 21736), (87, 21787), (105, 21907), (112, 21937), (119, 21961), (125, 21985), (126, 21988), (140, 22042),

Gene: Kinmap_30 Start: 21589, Stop: 22038, Start Num: 49

Candidate Starts for Kinmap_30:

(Start: 49 @21589 has 762 MA's), (103, 21859), (112, 21910), (125, 21958), (135, 21985), (140, 22015),

Gene: Kipper29_32 Start: 21764, Stop: 22216, Start Num: 49

Candidate Starts for Kipper29_32:

(Start: 49 @21764 has 762 MA's), (61, 21821), (66, 21845), (86, 21929), (103, 22037), (112, 22088), (125, 22136), (130, 22151),

Gene: KittenMittens_27 Start: 19689, Stop: 20135, Start Num: 49

Candidate Starts for KittenMittens_27:

(Start: 49 @19689 has 762 MA's), (65, 19758), (70, 19785), (87, 19857), (112, 20007), (125, 20055),

Gene: Koduck_29 Start: 21194, Stop: 21637, Start Num: 51

Candidate Starts for Koduck_29:

(Start: 51 @21194 has 21 MA's), (61, 21245), (66, 21269), (79, 21329), (112, 21512), (125, 21560), (143, 21629),

Gene: Koko_32 Start: 22102, Stop: 22554, Start Num: 49

Candidate Starts for Koko_32:

(Start: 49 @22102 has 762 MA's), (61, 22159), (66, 22183), (86, 22267), (103, 22375), (112, 22426), (125, 22474), (130, 22489),

Gene: Koreni_27 Start: 21273, Stop: 21719, Start Num: 49

Candidate Starts for Koreni_27:

(Start: 49 @21273 has 762 MA's), (65, 21342), (66, 21348), (70, 21369), (76, 21390), (87, 21441), (105, 21561), (112, 21591), (119, 21615), (125, 21639), (126, 21642), (140, 21696),

Gene: Kratak_28 Start: 21622, Stop: 22068, Start Num: 49

Candidate Starts for Kratak_28:

(Start: 49 @21622 has 762 MA's), (65, 21691), (66, 21697), (70, 21718), (76, 21739), (87, 21790), (105, 21910), (112, 21940), (119, 21964), (125, 21988), (126, 21991), (140, 22045),

Gene: Kremtemulon_28 Start: 21675, Stop: 22121, Start Num: 49

Candidate Starts for Kremtemulon_28:

(Start: 49 @21675 has 762 MA's), (65, 21744), (66, 21750), (70, 21771), (76, 21792), (87, 21843), (105, 21963), (112, 21993), (119, 22017), (125, 22041), (126, 22044), (140, 22098),

Gene: Krishelle_24 Start: 18259, Stop: 18699, Start Num: 49

Candidate Starts for Krishelle_24:

(11, 18040), (12, 18061), (30, 18178), (33, 18211), (Start: 49 @18259 has 762 MA's), (59, 18286), (85, 18412), (87, 18427), (93, 18454), (107, 18550), (116, 18589),

Gene: Kristoff_29 Start: 21786, Stop: 22232, Start Num: 49

Candidate Starts for Kristoff_29:

(Start: 49 @21786 has 762 MA's), (65, 21855), (70, 21882), (87, 21954), (112, 22104), (125, 22152),

Gene: Kugel_29 Start: 23113, Stop: 23559, Start Num: 49

Candidate Starts for Kugel_29:

(Start: 49 @23113 has 762 MA's), (73, 23227), (74, 23230), (85, 23272), (86, 23278), (133, 23506),

Gene: KyMonks1A_30 Start: 23279, Stop: 23725, Start Num: 49

Candidate Starts for KyMonks1A_30:

(Start: 49 @23279 has 762 MA's), (57, 23291), (73, 23393), (74, 23396), (85, 23438), (86, 23444), (133, 23672),

Gene: Kyee_28 Start: 21628, Stop: 22074, Start Num: 49

Candidate Starts for Kyee_28:

(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796), (105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: Kykar_28 Start: 22901, Stop: 23347, Start Num: 49

Candidate Starts for Kykar_28:

(Start: 49 @22901 has 762 MA's), (73, 23015), (74, 23018), (85, 23060), (86, 23066), (133, 23294),

Gene: L5_29 Start: 21148, Stop: 21591, Start Num: 51

Candidate Starts for L5_29:

(Start: 51 @21148 has 21 MA's), (61, 21199), (66, 21223), (79, 21283), (112, 21466), (125, 21514), (143, 21583),

Gene: LBerry_30 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for LBerry_30:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: LHTSCC_29 Start: 21941, Stop: 22387, Start Num: 49

Candidate Starts for LHTSCC_29:

(Start: 49 @21941 has 762 MA's), (65, 22010), (66, 22016), (70, 22037), (76, 22058), (87, 22109), (105, 22229), (112, 22259), (119, 22283), (125, 22307), (126, 22310),

Gene: LadyBird_29 Start: 21960, Stop: 22406, Start Num: 49

Candidate Starts for LadyBird_29:

(3, 21729), (10, 21786), (13, 21825), (23, 21915), (Start: 24 @21921 has 1 MA's), (Start: 49 @21960 has 762 MA's), (66, 22035), (79, 22095), (103, 22227), (105, 22248), (125, 22326), (135, 22353), (140, 22383),

Gene: Lambert1_29 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for Lambert1_29:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Lamina13_28 Start: 22550, Stop: 22996, Start Num: 49

Candidate Starts for Lamina13_28:

(Start: 49 @22550 has 762 MA's), (57, 22562), (73, 22664), (74, 22667), (85, 22709), (86, 22715), (133, 22943),

Gene: Landor_30 Start: 23575, Stop: 24021, Start Num: 47

Candidate Starts for Landor_30:

(Start: 47 @23575 has 6 MA's), (66, 23650), (75, 23689), (79, 23710), (103, 23842), (112, 23893), (125, 23941), (135, 23968),

Gene: LappelDuVide_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for LappelDuVide_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Larenn_30 Start: 22257, Stop: 22703, Start Num: 49

Candidate Starts for Larenn_30:

(13, 22122), (23, 22212), (Start: 24 @22218 has 1 MA's), (Start: 49 @22257 has 762 MA's), (66, 22332), (75, 22371), (103, 22524), (125, 22623), (135, 22650), (140, 22680),

Gene: LarryKay_30 Start: 22284, Stop: 22727, Start Num: 49

Candidate Starts for LarryKay_30:

(Start: 49 @22284 has 762 MA's), (65, 22353), (70, 22380), (87, 22452), (105, 22572), (112, 22602), (125, 22650), (142, 22719),

Gene: LastResort_31 Start: 20968, Stop: 21411, Start Num: 49

Candidate Starts for LastResort_31:

(Start: 49 @20968 has 762 MA's), (58, 20977), (65, 21037), (66, 21043), (81, 21106), (90, 21145), (112, 21286), (125, 21334),

Gene: Lauer_18 Start: 17161, Stop: 17550, Start Num: 49

Candidate Starts for Lauer_18:

(34, 17107), (Start: 49 @17161 has 762 MA's), (58, 17182), (64, 17236), (65, 17242), (67, 17251), (71, 17272), (79, 17308), (99, 17389), (108, 17449), (111, 17458), (117, 17479),

Gene: Lemur_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Lemur_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: LeoAvram_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for LeoAvram_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Leogania_31 Start: 24117, Stop: 24569, Start Num: 48

Candidate Starts for Leogania_31:

(Start: 48 @24117 has 3 MA's), (66, 24198), (103, 24390), (105, 24411), (112, 24441), (125, 24489), (135, 24516),

Gene: Lesedi_27 Start: 22708, Stop: 23154, Start Num: 49

Candidate Starts for Lesedi_27:

(Start: 49 @22708 has 762 MA's), (57, 22720), (73, 22822), (74, 22825), (85, 22867), (86, 22873), (133, 23101),

Gene: Lev2_25 Start: 21290, Stop: 21754, Start Num: 49

Candidate Starts for Lev2_25:

(Start: 49 @21290 has 762 MA's), (113, 21614), (116, 21626), (127, 21668), (141, 21725),

Gene: Leviathan_31 Start: 22478, Stop: 22924, Start Num: 49

Candidate Starts for Leviathan_31:

(1, 22166), (5, 22256), (Start: 24 @22439 has 1 MA's), (Start: 49 @22478 has 762 MA's), (66, 22553), (79, 22613), (103, 22745), (125, 22844), (135, 22871),

Gene: Licorice_30 Start: 23937, Stop: 24383, Start Num: 49
Candidate Starts for Licorice_30:
(Start: 49 @23937 has 762 MA's), (73, 24051), (74, 24054), (85, 24096), (86, 24102), (133, 24330),

Gene: LilBib_29 Start: 24150, Stop: 24596, Start Num: 49
Candidate Starts for LilBib_29:
(Start: 49 @24150 has 762 MA's), (57, 24162), (73, 24264), (74, 24267), (85, 24309), (86, 24315),
(133, 24543),

Gene: LilSpotty_19 Start: 16427, Stop: 16867, Start Num: 35
Candidate Starts for LilSpotty_19:
(18, 16319), (Start: 35 @16427 has 1 MA's), (39, 16436), (41, 16442), (60, 16529), (71, 16583), (72,
16589), (76, 16601), (77, 16604), (78, 16607), (84, 16637), (102, 16739), (115, 16799), (124, 16835),

Gene: LilTurb_31 Start: 22481, Stop: 22927, Start Num: 49
Candidate Starts for LilTurb_31:
(1, 22169), (5, 22259), (16, 22361), (Start: 24 @22442 has 1 MA's), (Start: 49 @22481 has 762 MA's),
(66, 22556), (79, 22616), (103, 22748), (125, 22847), (135, 22874),

Gene: Lilbunny_32 Start: 21759, Stop: 22211, Start Num: 49
Candidate Starts for Lilbunny_32:
(Start: 49 @21759 has 762 MA's), (61, 21816), (66, 21840), (86, 21924), (103, 22032), (112, 22083),
(125, 22131), (130, 22146),

Gene: Lilit_30 Start: 22191, Stop: 22634, Start Num: 49
Candidate Starts for Lilit_30:
(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509),
(125, 22557), (142, 22626),

Gene: Lilleskat_29 Start: 23557, Stop: 24006, Start Num: 49
Candidate Starts for Lilleskat_29:
(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140,
23986),

Gene: Lillie_24 Start: 17988, Stop: 18428, Start Num: 49
Candidate Starts for Lillie_24:
(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85,
18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: LittleB_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for LittleB_28:
(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795),
(105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: LittleCherry_25 Start: 21469, Stop: 21933, Start Num: 49
Candidate Starts for LittleCherry_25:
(Start: 49 @21469 has 762 MA's), (113, 21793), (116, 21805), (127, 21847), (140, 21895), (141,
21904),

Gene: LittleGuy_28 Start: 21570, Stop: 22016, Start Num: 49
Candidate Starts for LittleGuy_28:

(Start: 49 @21570 has 762 MA's), (65, 21639), (66, 21645), (76, 21687), (87, 21738), (105, 21858), (112, 21888), (119, 21912), (125, 21936), (126, 21939), (140, 21993),

Gene: LochMonster_28 Start: 21602, Stop: 22048, Start Num: 49

Candidate Starts for LochMonster_28:

(Start: 49 @21602 has 762 MA's), (65, 21671), (66, 21677), (70, 21698), (76, 21719), (87, 21770), (105, 21890), (112, 21920), (119, 21944), (125, 21968), (126, 21971), (140, 22025),

Gene: Lockley_28 Start: 22891, Stop: 23337, Start Num: 49

Candidate Starts for Lockley_28:

(Start: 49 @22891 has 762 MA's), (73, 23005), (74, 23008), (85, 23050), (86, 23056), (133, 23284),

Gene: Lökk_32 Start: 23627, Stop: 24073, Start Num: 49

Candidate Starts for Lökk_32:

(Start: 49 @23627 has 762 MA's), (66, 23702), (79, 23762), (103, 23894), (125, 23993), (135, 24020), (140, 24050),

Gene: LoneWolf_30 Start: 23150, Stop: 23599, Start Num: 49

Candidate Starts for LoneWolf_30:

(Start: 49 @23150 has 762 MA's), (66, 23231), (105, 23444), (112, 23474), (125, 23522), (135, 23549), (140, 23579),

Gene: Looper_32 Start: 20965, Stop: 21408, Start Num: 49

Candidate Starts for Looper_32:

(Start: 49 @20965 has 762 MA's), (58, 20974), (65, 21034), (66, 21040), (81, 21103), (90, 21142), (112, 21283), (125, 21331),

Gene: Lopton_29 Start: 24352, Stop: 24798, Start Num: 49

Candidate Starts for Lopton_29:

(Start: 49 @24352 has 762 MA's), (73, 24466), (74, 24469), (85, 24511), (86, 24517), (133, 24745),

Gene: Lorenzo_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Lorenzo_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: Loser_32 Start: 23730, Stop: 24179, Start Num: 49

Candidate Starts for Loser_32:

(Start: 49 @23730 has 762 MA's), (66, 23811), (79, 23871), (86, 23895), (103, 24003), (105, 24024), (112, 24054), (125, 24102), (135, 24129), (140, 24159),

Gene: Louie6_30 Start: 22285, Stop: 22728, Start Num: 49

Candidate Starts for Louie6_30:

(Start: 49 @22285 has 762 MA's), (65, 22354), (70, 22381), (87, 22453), (105, 22573), (112, 22603), (125, 22651), (142, 22720),

Gene: Luchador_31 Start: 22469, Stop: 22918, Start Num: 49

Candidate Starts for Luchador_31:

(Start: 49 @22469 has 762 MA's), (66, 22547), (103, 22739), (112, 22790), (125, 22838), (135, 22865), (140, 22895),

Gene: Lucivia_29 Start: 22682, Stop: 23125, Start Num: 50

Candidate Starts for Lucivia_29:

(Start: 50 @22682 has 23 MA's), (66, 22757), (103, 22949), (105, 22970), (125, 23048), (141, 23114),

Gene: Lucyedi_30 Start: 22746, Stop: 23192, Start Num: 49

Candidate Starts for Lucyedi_30:

(32, 22686), (Start: 49 @22746 has 762 MA's), (65, 22818), (66, 22824), (103, 23016), (112, 23067), (125, 23115), (135, 23142),

Gene: LugYA_32 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for LugYA_32:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Lunsford_29 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Lunsford_29:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: MA5_28 Start: 21379, Stop: 21822, Start Num: 49

Candidate Starts for MA5_28:

(14, 21193), (Start: 42 @21352 has 1 MA's), (Start: 49 @21379 has 762 MA's), (65, 21448), (70, 21475), (107, 21673), (112, 21697), (125, 21745),

Gene: MAnor_19 Start: 17120, Stop: 17512, Start Num: 49

Candidate Starts for MAnor_19:

(Start: 49 @17120 has 762 MA's), (58, 17141), (64, 17195), (65, 17201), (67, 17210), (71, 17231), (75, 17246), (79, 17267), (108, 17408), (111, 17417), (117, 17438),

Gene: MK4_28 Start: 21682, Stop: 22125, Start Num: 49

Candidate Starts for MK4_28:

(14, 21496), (Start: 42 @21655 has 1 MA's), (Start: 49 @21682 has 762 MA's), (65, 21751), (70, 21778), (105, 21970), (107, 21976), (112, 22000), (125, 22048), (142, 22117),

Gene: MPlant7149_27 Start: 22527, Stop: 22973, Start Num: 49

Candidate Starts for MPlant7149_27:

(Start: 49 @22527 has 762 MA's), (73, 22641), (74, 22644), (85, 22686), (86, 22692), (133, 22920),

Gene: MScarn_21 Start: 17073, Stop: 17471, Start Num: 45

Candidate Starts for MScarn_21:

(Start: 45 @17073 has 11 MA's), (Start: 52 @17082 has 25 MA's), (63, 17154), (64, 17157), (67, 17172), (71, 17193), (75, 17208), (77, 17214), (83, 17238), (104, 17337), (111, 17379), (117, 17400), (129, 17442),

Gene: MaCh_29 Start: 22624, Stop: 23067, Start Num: 50

Candidate Starts for MaCh_29:

(Start: 21 @22561 has 1 MA's), (Start: 50 @22624 has 23 MA's), (66, 22699), (103, 22891), (105, 22912), (125, 22990), (141, 23056),

Gene: MaVan_21 Start: 18423, Stop: 18809, Start Num: 52

Candidate Starts for MaVan_21:

(Start: 52 @18423 has 25 MA's), (63, 18495), (67, 18513), (71, 18534), (77, 18555), (78, 18558), (83, 18579), (96, 18633), (102, 18672), (106, 18699), (111, 18720), (117, 18741),

Gene: Mabel_29 Start: 22685, Stop: 23128, Start Num: 50

Candidate Starts for Mabel_29:

(Start: 21 @22622 has 1 MA's), (Start: 50 @22685 has 23 MA's), (66, 22760), (103, 22952), (105, 22973), (125, 23051), (141, 23117),

Gene: MadMarie_30 Start: 22200, Stop: 22643, Start Num: 49

Candidate Starts for MadMarie_30:

(Start: 49 @22200 has 762 MA's), (65, 22269), (70, 22296), (87, 22368), (105, 22488), (112, 22518), (125, 22566), (142, 22635),

Gene: Magnar_28 Start: 22677, Stop: 23123, Start Num: 49

Candidate Starts for Magnar_28:

(Start: 49 @22677 has 762 MA's), (73, 22791), (74, 22794), (85, 22836), (86, 22842), (133, 23070),

Gene: Magnito_27 Start: 22429, Stop: 22875, Start Num: 49

Candidate Starts for Magnito_27:

(Start: 49 @22429 has 762 MA's), (57, 22441), (73, 22543), (74, 22546), (85, 22588), (86, 22594), (133, 22822),

Gene: Mainiac_30 Start: 22191, Stop: 22634, Start Num: 49

Candidate Starts for Mainiac_30:

(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509), (125, 22557), (142, 22626),

Gene: MajorMajor_28 Start: 20882, Stop: 21325, Start Num: 51

Candidate Starts for MajorMajor_28:

(Start: 51 @20882 has 21 MA's), (66, 20957), (79, 21017), (112, 21200), (125, 21248), (140, 21305),

Gene: Makemake_28 Start: 24145, Stop: 24591, Start Num: 49

Candidate Starts for Makemake_28:

(Start: 49 @24145 has 762 MA's), (73, 24259), (74, 24262), (85, 24304), (86, 24310), (133, 24538),

Gene: Malec_30 Start: 22262, Stop: 22708, Start Num: 49

Candidate Starts for Malec_30:

(7, 22058), (13, 22127), (23, 22217), (Start: 24 @22223 has 1 MA's), (Start: 49 @22262 has 762 MA's), (66, 22337), (75, 22376), (103, 22529), (125, 22628), (135, 22655), (140, 22685),

Gene: Malinsilva_32 Start: 22190, Stop: 22633, Start Num: 49

Candidate Starts for Malinsilva_32:

(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508), (125, 22556), (142, 22625),

Gene: Maminiaina_30 Start: 23100, Stop: 23549, Start Num: 49

Candidate Starts for Maminiaina_30:

(19, 23019), (Start: 49 @23100 has 762 MA's), (66, 23181), (103, 23373), (105, 23394), (112, 23424), (125, 23472), (135, 23499),

Gene: Manatee_29 Start: 22675, Stop: 23121, Start Num: 49

Candidate Starts for Manatee_29:

(Start: 49 @22675 has 762 MA's), (57, 22687), (73, 22789), (74, 22792), (85, 22834), (86, 22840), (133, 23068),

Gene: Manu_31 Start: 22279, Stop: 22722, Start Num: 49

Candidate Starts for Manu_31:

(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597), (125, 22645), (142, 22714),

Gene: MarQuardt_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for MarQuardt_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: Marcell_28 Start: 23165, Stop: 23611, Start Num: 49

Candidate Starts for Marcell_28:

(Start: 49 @23165 has 762 MA's), (73, 23279), (74, 23282), (85, 23324), (86, 23330), (133, 23558),

Gene: Marchesa_28 Start: 21814, Stop: 22257, Start Num: 49

Candidate Starts for Marchesa_28:

(14, 21628), (Start: 42 @21787 has 1 MA's), (Start: 49 @21814 has 762 MA's), (65, 21883), (70, 21910), (105, 22102), (107, 22108), (112, 22132), (125, 22180), (142, 22249),

Gene: Marchy_27 Start: 22470, Stop: 22916, Start Num: 49

Candidate Starts for Marchy_27:

(Start: 49 @22470 has 762 MA's), (57, 22482), (73, 22584), (74, 22587), (85, 22629), (86, 22635), (133, 22863),

Gene: Margaret_22 Start: 17157, Stop: 17549, Start Num: 49

Candidate Starts for Margaret_22:

(34, 17103), (Start: 49 @17157 has 762 MA's), (58, 17178), (67, 17247), (71, 17268), (75, 17283), (79, 17304), (91, 17346), (111, 17454), (114, 17463), (117, 17475),

Gene: Marge_29 Start: 23565, Stop: 24011, Start Num: 49

Candidate Starts for Marge_29:

(Start: 49 @23565 has 762 MA's), (73, 23679), (74, 23682), (85, 23724), (86, 23730), (133, 23958),

Gene: Margo_29 Start: 22303, Stop: 22746, Start Num: 49

Candidate Starts for Margo_29:

(Start: 49 @22303 has 762 MA's), (65, 22372), (70, 22399), (87, 22471), (105, 22591), (112, 22621), (125, 22669),

Gene: Marie_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for Marie_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: Marius_31 Start: 22279, Stop: 22722, Start Num: 49

Candidate Starts for Marius_31:

(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597), (125, 22645), (142, 22714),

Gene: Maroc7_27 Start: 22669, Stop: 23115, Start Num: 49

Candidate Starts for Maroc7_27:

(Start: 49 @22669 has 762 MA's), (73, 22783), (74, 22786), (85, 22828), (86, 22834), (133, 23062),

Gene: Marsha_28 Start: 23791, Stop: 24237, Start Num: 49

Candidate Starts for Marsha_28:

(Start: 49 @23791 has 762 MA's), (73, 23905), (74, 23908), (85, 23950), (86, 23956), (133, 24184),

Gene: MaryBeth_28 Start: 23097, Stop: 23543, Start Num: 49
Candidate Starts for MaryBeth_28:
(Start: 49 @23097 has 762 MA's), (73, 23211), (74, 23214), (85, 23256), (86, 23262), (133, 23490),

Gene: MarysWell_24 Start: 21517, Stop: 21981, Start Num: 49
Candidate Starts for MarysWell_24:
(Start: 49 @21517 has 762 MA's), (113, 21841), (116, 21853), (127, 21895), (140, 21943), (141, 21952),

Gene: Maverick_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for Maverick_28:
(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Maxo_28 Start: 21625, Stop: 22071, Start Num: 49
Candidate Starts for Maxo_28:
(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994),

Gene: Mayweather_20 Start: 17735, Stop: 18127, Start Num: 49
Candidate Starts for Mayweather_20:
(Start: 49 @17735 has 762 MA's), (58, 17756), (64, 17810), (65, 17816), (67, 17825), (71, 17846), (75, 17861), (79, 17882), (108, 18023), (111, 18032), (117, 18053),

Gene: Mazhar510_28 Start: 21628, Stop: 22074, Start Num: 49
Candidate Starts for Mazhar510_28:
(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796), (105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: McFly_32 Start: 21764, Stop: 22216, Start Num: 49
Candidate Starts for McFly_32:
(Start: 49 @21764 has 762 MA's), (61, 21821), (66, 21845), (86, 21929), (103, 22037), (112, 22088), (125, 22136), (130, 22151),

Gene: McGuire_29 Start: 22967, Stop: 23413, Start Num: 49
Candidate Starts for McGuire_29:
(Start: 49 @22967 has 762 MA's), (57, 22979), (73, 23081), (74, 23084), (85, 23126), (86, 23132), (133, 23360),

Gene: Medusa_28 Start: 21628, Stop: 22074, Start Num: 49
Candidate Starts for Medusa_28:
(Start: 49 @21628 has 762 MA's), (65, 21697), (66, 21703), (70, 21724), (76, 21745), (87, 21796), (105, 21916), (112, 21946), (119, 21970), (125, 21994), (126, 21997), (140, 22051),

Gene: MeeZee_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for MeeZee_28:
(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: Melvin_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for Melvin_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: MetalQZJ_28 Start: 23097, Stop: 23543, Start Num: 49

Candidate Starts for MetalQZJ_28:

(Start: 49 @23097 has 762 MA's), (73, 23211), (74, 23214), (85, 23256), (86, 23262), (133, 23490),

Gene: Methuselah_29 Start: 22281, Stop: 22724, Start Num: 49

Candidate Starts for Methuselah_29:

(Start: 49 @22281 has 762 MA's), (65, 22350), (70, 22377), (87, 22449), (105, 22569), (112, 22599), (125, 22647), (142, 22716),

Gene: Micasa_25 Start: 21443, Stop: 21907, Start Num: 49

Candidate Starts for Micasa_25:

(Start: 49 @21443 has 762 MA's), (113, 21767), (116, 21779), (127, 21821), (140, 21869), (141, 21878),

Gene: Michley_28 Start: 22842, Stop: 23288, Start Num: 49

Candidate Starts for Michley_28:

(Start: 49 @22842 has 762 MA's), (73, 22956), (74, 22959), (85, 23001), (86, 23007), (133, 23235),

Gene: Microwolf_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for Microwolf_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: MiculUcigas_29 Start: 22002, Stop: 22448, Start Num: 49

Candidate Starts for MiculUcigas_29:

(3, 21771), (23, 21957), (Start: 24 @21963 has 1 MA's), (Start: 49 @22002 has 762 MA's), (66, 22077), (75, 22116), (103, 22269), (125, 22368), (135, 22395), (140, 22425),

Gene: Midas2_25 Start: 21517, Stop: 21981, Start Num: 49

Candidate Starts for Midas2_25:

(Start: 49 @21517 has 762 MA's), (113, 21841), (116, 21853), (127, 21895), (140, 21943), (141, 21952),

Gene: Miko_32 Start: 23595, Stop: 24041, Start Num: 49

Candidate Starts for Miko_32:

(Start: 49 @23595 has 762 MA's), (66, 23670), (79, 23730), (103, 23862), (105, 23883), (112, 23913), (125, 23961), (135, 23988), (140, 24018),

Gene: Milcery_25 Start: 21473, Stop: 21937, Start Num: 49

Candidate Starts for Milcery_25:

(Start: 49 @21473 has 762 MA's), (113, 21797), (116, 21809), (127, 21851), (140, 21899), (141, 21908),

Gene: Millski_27 Start: 21630, Stop: 22076, Start Num: 49

Candidate Starts for Millski_27:

(Start: 49 @21630 has 762 MA's), (65, 21699), (66, 21705), (70, 21726), (76, 21747), (87, 21798), (105, 21918), (112, 21948), (119, 21972), (125, 21996), (126, 21999), (140, 22053),

Gene: MinecraftSteve_32 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for MinecraftSteve_32:

(Start: 49 @21087 has 762 MA's), (58, 21096), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: Miramae_28 Start: 21591, Stop: 22037, Start Num: 49

Candidate Starts for Miramae_28:

(Start: 49 @21591 has 762 MA's), (65, 21660), (70, 21687), (105, 21879), (112, 21909), (116, 21924), (125, 21957),

Gene: Misomonster_32 Start: 22281, Stop: 22724, Start Num: 49

Candidate Starts for Misomonster_32:

(Start: 49 @22281 has 762 MA's), (65, 22350), (70, 22377), (87, 22449), (105, 22569), (112, 22599), (125, 22647), (142, 22716),

Gene: MissWhite_29 Start: 21089, Stop: 21532, Start Num: 51

Candidate Starts for MissWhite_29:

(Start: 51 @21089 has 21 MA's), (103, 21356), (112, 21407), (125, 21455), (140, 21512),

Gene: Mkhuseli_29 Start: 22992, Stop: 23438, Start Num: 49

Candidate Starts for Mkhuseli_29:

(Start: 49 @22992 has 762 MA's), (73, 23106), (74, 23109), (85, 23151), (86, 23157), (133, 23385),

Gene: Molly_29 Start: 22765, Stop: 23211, Start Num: 49

Candidate Starts for Molly_29:

(Start: 49 @22765 has 762 MA's), (73, 22879), (74, 22882), (85, 22924), (86, 22930), (133, 23158),

Gene: Monet_30 Start: 24193, Stop: 24639, Start Num: 49

Candidate Starts for Monet_30:

(Start: 49 @24193 has 762 MA's), (73, 24307), (74, 24310), (85, 24352), (86, 24358), (133, 24586),

Gene: MoneyMay_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for MoneyMay_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: Moose_28 Start: 23169, Stop: 23615, Start Num: 49

Candidate Starts for Moose_28:

(36, 23121), (Start: 49 @23169 has 762 MA's), (73, 23283), (74, 23286), (85, 23328), (86, 23334), (133, 23562),

Gene: Morpher26_28 Start: 21648, Stop: 22094, Start Num: 49

Candidate Starts for Morpher26_28:

(Start: 49 @21648 has 762 MA's), (65, 21717), (70, 21744), (75, 21762), (87, 21816), (105, 21936), (112, 21966), (116, 21981), (125, 22014),

Gene: Morrow_28 Start: 21630, Stop: 22076, Start Num: 49

Candidate Starts for Morrow_28:

(Start: 49 @21630 has 762 MA's), (65, 21699), (66, 21705), (70, 21726), (76, 21747), (87, 21798), (105, 21918), (112, 21948), (119, 21972), (125, 21996), (126, 21999),

Gene: MrGordo_28 Start: 22657, Stop: 23103, Start Num: 49

Candidate Starts for MrGordo_28:

(Start: 49 @22657 has 762 MA's), (73, 22771), (74, 22774), (85, 22816), (86, 22822), (133, 23050),

Gene: Mryolo_27 Start: 22694, Stop: 23140, Start Num: 49
Candidate Starts for Mryolo_27:
(Start: 49 @22694 has 762 MA's), (57, 22706), (73, 22808), (74, 22811), (85, 22853), (86, 22859),
(133, 23087),

Gene: MuchMore_32 Start: 22190, Stop: 22633, Start Num: 49
Candidate Starts for MuchMore_32:
(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508),
(125, 22556), (142, 22625),

Gene: Mulciber_29 Start: 22627, Stop: 23070, Start Num: 50
Candidate Starts for Mulciber_29:
(Start: 50 @22627 has 23 MA's), (66, 22702), (103, 22894), (105, 22915), (125, 22993), (141, 23059),

Gene: Mule_28 Start: 23003, Stop: 23449, Start Num: 49
Candidate Starts for Mule_28:
(Start: 49 @23003 has 762 MA's), (73, 23117), (74, 23120), (85, 23162), (86, 23168), (133, 23396),

Gene: Munch_29 Start: 22633, Stop: 23076, Start Num: 50
Candidate Starts for Munch_29:
(Start: 21 @22570 has 1 MA's), (Start: 50 @22633 has 23 MA's), (66, 22708), (103, 22900), (105,
22921), (125, 22999), (141, 23065),

Gene: Mundrea_28 Start: 21612, Stop: 22058, Start Num: 49
Candidate Starts for Mundrea_28:
(Start: 49 @21612 has 762 MA's), (65, 21681), (70, 21708), (75, 21726), (87, 21780), (105, 21900),
(112, 21930), (116, 21945), (125, 21978),

Gene: MunkgeeRoachy_19 Start: 17490, Stop: 17879, Start Num: 52
Candidate Starts for MunkgeeRoachy_19:
(Start: 52 @17490 has 25 MA's), (63, 17562), (64, 17565), (67, 17580), (71, 17601), (75, 17616), (79,
17637), (91, 17679), (104, 17745), (109, 17781), (111, 17787), (117, 17808), (129, 17850),

Gene: Museum_30 Start: 23013, Stop: 23459, Start Num: 49
Candidate Starts for Museum_30:
(Start: 49 @23013 has 762 MA's), (73, 23127), (74, 23130), (85, 23172), (86, 23178), (133, 23406),

Gene: MyraDee_26 Start: 19887, Stop: 20348, Start Num: 49
Candidate Starts for MyraDee_26:
(Start: 49 @19887 has 762 MA's), (69, 19989), (87, 20064), (107, 20190), (113, 20217), (135, 20289),

Gene: Myxus_31 Start: 23557, Stop: 24006, Start Num: 49
Candidate Starts for Myxus_31:
(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140,
23986),

Gene: NEHalo_28 Start: 22751, Stop: 23197, Start Num: 49
Candidate Starts for NEHalo_28:
(Start: 49 @22751 has 762 MA's), (73, 22865), (74, 22868), (85, 22910), (86, 22916), (133, 23144),

Gene: NaSiaTalie_29 Start: 22000, Stop: 22446, Start Num: 49
Candidate Starts for NaSiaTalie_29:

(3, 21769), (23, 21955), (Start: 24 @21961 has 1 MA's), (Start: 49 @22000 has 762 MA's), (66, 22075), (75, 22114), (103, 22267), (125, 22366), (135, 22393), (140, 22423),

Gene: Naca_25 Start: 21325, Stop: 21789, Start Num: 49

Candidate Starts for Naca_25:

(Start: 49 @21325 has 762 MA's), (127, 21703), (136, 21724), (140, 21751), (141, 21760),

Gene: Naiad_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Naiad_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Naira_29 Start: 24610, Stop: 25056, Start Num: 49

Candidate Starts for Naira_29:

(Start: 49 @24610 has 762 MA's), (73, 24724), (74, 24727), (85, 24769), (86, 24775), (133, 25003),

Gene: Naji_32 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for Naji_32:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: Nancinator_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Nancinator_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Natosaleda_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Natosaleda_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: NearlyHeadless_25 Start: 20480, Stop: 20926, Start Num: 49

Candidate Starts for NearlyHeadless_25:

(Start: 49 @20480 has 762 MA's), (63, 20543), (65, 20552), (73, 20591), (75, 20597), (93, 20678), (107, 20777), (113, 20801), (139, 20900), (140, 20906),

Gene: Nebs_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Nebs_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Nebulosus_31 Start: 20965, Stop: 21408, Start Num: 49

Candidate Starts for Nebulosus_31:

(Start: 49 @20965 has 762 MA's), (58, 20974), (65, 21034), (66, 21040), (81, 21103), (90, 21142), (112, 21283), (125, 21331),

Gene: Nedarya_30 Start: 21584, Stop: 22024, Start Num: 49

Candidate Starts for Nedarya_30:

(Start: 49 @21584 has 762 MA's), (65, 21650), (66, 21656), (67, 21659), (88, 21752), (93, 21776), (125, 21947),

Gene: Neeharika16_32 Start: 21757, Stop: 22209, Start Num: 49

Candidate Starts for Neeharika16_32:

(Start: 49 @21757 has 762 MA's), (61, 21814), (66, 21838), (86, 21922), (103, 22030), (112, 22081), (125, 22129), (130, 22144),

Gene: Nemo27_28 Start: 21626, Stop: 22072, Start Num: 49

Candidate Starts for Nemo27_28:

(Start: 49 @21626 has 762 MA's), (65, 21695), (66, 21701), (70, 21722), (76, 21743), (87, 21794), (105, 21914), (112, 21944), (119, 21968), (125, 21992), (126, 21995), (140, 22049),

Gene: Nerujay_29 Start: 23419, Stop: 23865, Start Num: 49

Candidate Starts for Nerujay_29:

(Start: 49 @23419 has 762 MA's), (57, 23431), (73, 23533), (74, 23536), (85, 23578), (86, 23584), (133, 23812),

Gene: Newrala_32 Start: 21757, Stop: 22209, Start Num: 49

Candidate Starts for Newrala_32:

(Start: 49 @21757 has 762 MA's), (61, 21814), (66, 21838), (86, 21922), (103, 22030), (112, 22081), (125, 22129), (130, 22144),

Gene: Nhonho_28 Start: 23170, Stop: 23616, Start Num: 49

Candidate Starts for Nhonho_28:

(Start: 49 @23170 has 762 MA's), (57, 23182), (73, 23284), (74, 23287), (85, 23329), (86, 23335), (133, 23563),

Gene: Nibbles_21 Start: 18423, Stop: 18809, Start Num: 52

Candidate Starts for Nibbles_21:

(Start: 52 @18423 has 25 MA's), (63, 18495), (67, 18513), (71, 18534), (77, 18555), (78, 18558), (83, 18579), (96, 18633), (102, 18672), (106, 18699), (111, 18720), (117, 18741),

Gene: NicoleTera_33 Start: 23863, Stop: 24309, Start Num: 49

Candidate Starts for NicoleTera_33:

(34, 23812), (Start: 49 @23863 has 762 MA's), (66, 23938), (75, 23977), (79, 23998), (103, 24130), (105, 24151), (112, 24181), (125, 24229), (135, 24256), (140, 24286),

Gene: Nina_20 Start: 18484, Stop: 18873, Start Num: 52

Candidate Starts for Nina_20:

(Start: 52 @18484 has 25 MA's), (63, 18556), (64, 18559), (67, 18574), (71, 18595), (75, 18610), (79, 18631), (91, 18673), (104, 18739), (109, 18775), (111, 18781), (117, 18802), (129, 18844),

Gene: Niza_30 Start: 24047, Stop: 24493, Start Num: 49

Candidate Starts for Niza_30:

(Start: 49 @24047 has 762 MA's), (57, 24059), (73, 24161), (74, 24164), (85, 24206), (86, 24212), (133, 24440),

Gene: Nodigi_21 Start: 17443, Stop: 17835, Start Num: 49

Candidate Starts for Nodigi_21:

(34, 17389), (Start: 49 @17443 has 762 MA's), (58, 17464), (63, 17515), (64, 17518), (67, 17533), (71, 17554), (75, 17569), (79, 17590), (91, 17632), (104, 17698), (111, 17740), (112, 17743), (117, 17761),

Gene: Noella_29 Start: 22278, Stop: 22721, Start Num: 49

Candidate Starts for Noella_29:

(Start: 49 @22278 has 762 MA's), (65, 22347), (70, 22374), (87, 22446), (105, 22566), (112, 22596), (125, 22644),

Gene: Noelle_28 Start: 21705, Stop: 22151, Start Num: 49
Candidate Starts for Noelle_28:
(20, 21576), (Start: 49 @21705 has 762 MA's), (65, 21774), (70, 21801), (87, 21873), (105, 21993),
(112, 22023), (116, 22038), (125, 22071),

Gene: Norbert_28 Start: 22277, Stop: 22720, Start Num: 49
Candidate Starts for Norbert_28:
(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595),
(125, 22643),

Gene: NorthStar_28 Start: 21627, Stop: 22073, Start Num: 49
Candidate Starts for NorthStar_28:
(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795),
(105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Norz_30 Start: 23826, Stop: 24272, Start Num: 49
Candidate Starts for Norz_30:
(Start: 49 @23826 has 762 MA's), (73, 23940), (74, 23943), (85, 23985), (86, 23991), (133, 24219),

Gene: NotAPhaseMom_28 Start: 21631, Stop: 22077, Start Num: 49
Candidate Starts for NotAPhaseMom_28:
(Start: 49 @21631 has 762 MA's), (65, 21700), (66, 21706), (70, 21727), (76, 21748), (87, 21799),
(105, 21919), (112, 21949), (119, 21973), (125, 21997), (126, 22000), (140, 22054),

Gene: NothingSpecial_31 Start: 23999, Stop: 24445, Start Num: 49
Candidate Starts for NothingSpecial_31:
(Start: 49 @23999 has 762 MA's), (66, 24074), (79, 24134), (103, 24266), (105, 24287), (112, 24317),
(125, 24365), (135, 24392), (140, 24422),

Gene: Nyxis_28 Start: 21570, Stop: 22016, Start Num: 49
Candidate Starts for Nyxis_28:
(Start: 49 @21570 has 762 MA's), (65, 21639), (66, 21645), (70, 21666), (76, 21687), (87, 21738),
(105, 21858), (112, 21888), (119, 21912), (125, 21936), (126, 21939),

Gene: OKCentral2016_28 Start: 21292, Stop: 21738, Start Num: 49
Candidate Starts for OKCentral2016_28:
(Start: 49 @21292 has 762 MA's), (65, 21361), (70, 21388), (87, 21460), (112, 21610), (125, 21658),

Gene: OKaNui_29 Start: 21680, Stop: 22126, Start Num: 49
Candidate Starts for OKaNui_29:
(Start: 49 @21680 has 762 MA's), (65, 21749), (66, 21755), (70, 21776), (76, 21797), (87, 21848),
(105, 21968), (112, 21998), (119, 22022), (125, 22046), (126, 22049), (140, 22103),

Gene: Obama12_29 Start: 21943, Stop: 22389, Start Num: 49
Candidate Starts for Obama12_29:
(Start: 49 @21943 has 762 MA's), (65, 22012), (66, 22018), (70, 22039), (76, 22060), (87, 22111),
(105, 22231), (112, 22261), (119, 22285), (125, 22309), (126, 22312),

Gene: Odin_28 Start: 20772, Stop: 21221, Start Num: 53
Candidate Starts for Odin_28:
(Start: 53 @20772 has 5 MA's), (66, 20850), (79, 20910), (112, 21093), (125, 21141), (140, 21198),

Gene: Ohfah_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Ohfah_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Ohno789_28 Start: 22812, Stop: 23258, Start Num: 49

Candidate Starts for Ohno789_28:

(Start: 49 @22812 has 762 MA's), (73, 22926), (74, 22929), (85, 22971), (86, 22977), (133, 23205),

Gene: OlanP_30 Start: 22459, Stop: 22902, Start Num: 49

Candidate Starts for OlanP_30:

(Start: 49 @22459 has 762 MA's), (65, 22528), (70, 22555), (87, 22627), (105, 22747), (112, 22777), (125, 22825), (142, 22894),

Gene: Ollie_30 Start: 22068, Stop: 22511, Start Num: 49

Candidate Starts for Ollie_30:

(Start: 49 @22068 has 762 MA's), (65, 22137), (70, 22164), (87, 22236), (105, 22356), (112, 22386), (125, 22434), (126, 22437), (142, 22503),

Gene: Onglai_30 Start: 21891, Stop: 22340, Start Num: 49

Candidate Starts for Onglai_30:

(Start: 49 @21891 has 762 MA's), (66, 21972), (105, 22185), (112, 22215), (125, 22263), (140, 22320),

Gene: Oofda_32 Start: 20939, Stop: 21382, Start Num: 49

Candidate Starts for Oofda_32:

(Start: 49 @20939 has 762 MA's), (58, 20948), (65, 21008), (66, 21014), (81, 21077), (90, 21116), (112, 21257), (125, 21305),

Gene: Oogway_27 Start: 22934, Stop: 23380, Start Num: 49

Candidate Starts for Oogway_27:

(Start: 49 @22934 has 762 MA's), (73, 23048), (74, 23051), (85, 23093), (86, 23099), (133, 23327),

Gene: Orange_29 Start: 22633, Stop: 23076, Start Num: 50

Candidate Starts for Orange_29:

(Start: 50 @22633 has 23 MA's), (66, 22708), (103, 22900), (105, 22921), (125, 22999), (141, 23065),

Gene: Orla_21 Start: 17447, Stop: 17839, Start Num: 49

Candidate Starts for Orla_21:

(34, 17393), (Start: 48 @17444 has 3 MA's), (Start: 49 @17447 has 762 MA's), (58, 17468), (63, 17519), (64, 17522), (67, 17537), (71, 17558), (75, 17573), (79, 17594), (91, 17636), (104, 17702), (111, 17744), (112, 17747), (117, 17765),

Gene: P28Green_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for P28Green_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: PGHhamlin_32 Start: 22190, Stop: 22633, Start Num: 49

Candidate Starts for PGHhamlin_32:

(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508), (125, 22556), (142, 22625),

Gene: PP_38 Start: 27632, Stop: 28081, Start Num: 49

Candidate Starts for PP_38:

(Start: 49 @27632 has 762 MA's), (66, 27710), (79, 27770), (103, 27902), (112, 27953), (125, 28001), (135, 28028), (140, 28058), (142, 28070),

Gene: PSonyx_18 Start: 19173, Stop: 19559, Start Num: 54

Candidate Starts for PSonyx_18:

(Start: 54 @19173 has 5 MA's), (63, 19239), (64, 19242), (89, 19350), (113, 19479), (123, 19518),

Gene: PSullivan_30 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for PSullivan_30:

(Start: 49 @23482 has 762 MA's), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: PacerPaul_28 Start: 23213, Stop: 23659, Start Num: 49

Candidate Starts for PacerPaul_28:

(Start: 49 @23213 has 762 MA's), (57, 23225), (73, 23327), (74, 23330), (85, 23372), (86, 23378), (133, 23606),

Gene: PackMan_31 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for PackMan_31:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: PainterBoy_30 Start: 22683, Stop: 23129, Start Num: 49

Candidate Starts for PainterBoy_30:

(Start: 49 @22683 has 762 MA's), (65, 22755), (66, 22761), (103, 22953), (112, 23004), (125, 23052), (135, 23079),

Gene: Palestino_27 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Palestino_27:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996),

Gene: Panamaxus_28 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for Panamaxus_28:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Papez_30 Start: 24650, Stop: 25096, Start Num: 49

Candidate Starts for Papez_30:

(Start: 49 @24650 has 762 MA's), (73, 24764), (74, 24767), (85, 24809), (86, 24815), (133, 25043),

Gene: Paphu_27 Start: 22726, Stop: 23172, Start Num: 49

Candidate Starts for Paphu_27:

(Start: 49 @22726 has 762 MA's), (57, 22738), (73, 22840), (74, 22843), (85, 22885), (86, 22891), (133, 23119),

Gene: Paraselene_27 Start: 23154, Stop: 23600, Start Num: 49

Candidate Starts for Paraselene_27:

(Start: 49 @23154 has 762 MA's), (73, 23268), (74, 23271), (85, 23313), (86, 23319), (133, 23547),

Gene: Pari_29 Start: 22686, Stop: 23132, Start Num: 49

Candidate Starts for Pari_29:

(Start: 49 @22686 has 762 MA's), (73, 22800), (74, 22803), (85, 22845), (86, 22851), (133, 23079),

Gene: Parliament_27 Start: 23021, Stop: 23467, Start Num: 49

Candidate Starts for Parliament_27:

(Start: 49 @23021 has 762 MA's), (57, 23033), (73, 23135), (74, 23138), (85, 23180), (86, 23186), (133, 23414),

Gene: Partridge_24 Start: 18021, Stop: 18461, Start Num: 49

Candidate Starts for Partridge_24:

(11, 17802), (12, 17823), (30, 17940), (33, 17973), (Start: 49 @18021 has 762 MA's), (59, 18048), (85, 18174), (87, 18189), (93, 18216), (107, 18312), (116, 18351),

Gene: PascalRango_29 Start: 22989, Stop: 23435, Start Num: 49

Candidate Starts for PascalRango_29:

(Start: 49 @22989 has 762 MA's), (73, 23103), (74, 23106), (85, 23148), (86, 23154), (133, 23382),

Gene: PattyP_30 Start: 23222, Stop: 23668, Start Num: 49

Candidate Starts for PattyP_30:

(Start: 49 @23222 has 762 MA's), (73, 23336), (74, 23339), (85, 23381), (86, 23387), (133, 23615),

Gene: Pawn_31 Start: 22279, Stop: 22722, Start Num: 49

Candidate Starts for Pawn_31:

(Start: 49 @22279 has 762 MA's), (65, 22348), (70, 22375), (87, 22447), (105, 22567), (112, 22597), (125, 22645), (142, 22714),

Gene: Payneful_28 Start: 22470, Stop: 22916, Start Num: 49

Candidate Starts for Payneful_28:

(Start: 49 @22470 has 762 MA's), (57, 22482), (73, 22584), (74, 22587), (85, 22629), (86, 22635), (133, 22863),

Gene: PeaceMeal1_27 Start: 19690, Stop: 20136, Start Num: 49

Candidate Starts for PeaceMeal1_27:

(Start: 49 @19690 has 762 MA's), (65, 19759), (70, 19786), (87, 19858), (112, 20008), (125, 20056),

Gene: Peaches_28 Start: 21626, Stop: 22072, Start Num: 49

Candidate Starts for Peaches_28:

(Start: 49 @21626 has 762 MA's), (65, 21695), (66, 21701), (70, 21722), (76, 21743), (87, 21794), (105, 21914), (112, 21944), (119, 21968), (125, 21992), (140, 22049),

Gene: Pelly_29 Start: 23641, Stop: 24087, Start Num: 49

Candidate Starts for Pelly_29:

(Start: 49 @23641 has 762 MA's), (73, 23755), (74, 23758), (85, 23800), (86, 23806), (133, 24034),

Gene: Pembroke_30 Start: 22199, Stop: 22642, Start Num: 49

Candidate Starts for Pembroke_30:

(Start: 49 @22199 has 762 MA's), (65, 22268), (70, 22295), (87, 22367), (105, 22487), (112, 22517), (125, 22565), (142, 22634),

Gene: Penny1_30 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for Penny1_30:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Pepe_29 Start: 23823, Stop: 24269, Start Num: 49

Candidate Starts for Pepe_29:

(Start: 49 @23823 has 762 MA's), (73, 23937), (74, 23940), (85, 23982), (86, 23988), (133, 24216),

Gene: Perplexer_28 Start: 21645, Stop: 22091, Start Num: 49

Candidate Starts for Perplexer_28:

(Start: 49 @21645 has 762 MA's), (65, 21714), (70, 21741), (75, 21759), (87, 21813), (105, 21933), (112, 21963), (116, 21978), (125, 22011),

Gene: Perseus_30 Start: 23838, Stop: 24284, Start Num: 49

Candidate Starts for Perseus_30:

(Start: 49 @23838 has 762 MA's), (73, 23952), (74, 23955), (85, 23997), (86, 24003), (133, 24231),

Gene: PeterPeter_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for PeterPeter_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Petersenfast_28 Start: 22630, Stop: 23073, Start Num: 50

Candidate Starts for Petersenfast_28:

(Start: 50 @22630 has 23 MA's), (66, 22705), (103, 22897), (105, 22918), (125, 22996), (141, 23062),

Gene: Peterson_31 Start: 24851, Stop: 25297, Start Num: 49

Candidate Starts for Peterson_31:

(Start: 49 @24851 has 762 MA's), (73, 24965), (74, 24968), (85, 25010), (86, 25016), (133, 25244),

Gene: PetiteSangsue_28 Start: 21648, Stop: 22094, Start Num: 49

Candidate Starts for PetiteSangsue_28:

(Start: 49 @21648 has 762 MA's), (65, 21717), (70, 21744), (75, 21762), (87, 21816), (105, 21936), (112, 21966), (116, 21981), (125, 22014),

Gene: Petp2012_30 Start: 23893, Stop: 24339, Start Num: 49

Candidate Starts for Petp2012_30:

(Start: 49 @23893 has 762 MA's), (73, 24007), (74, 24010), (85, 24052), (86, 24058), (133, 24286),

Gene: Petruccio_29 Start: 23351, Stop: 23797, Start Num: 49

Candidate Starts for Petruccio_29:

(Start: 49 @23351 has 762 MA's), (57, 23363), (73, 23465), (74, 23468), (85, 23510), (86, 23516), (133, 23744),

Gene: PetterN_26 Start: 20759, Stop: 21223, Start Num: 49

Candidate Starts for PetterN_26:

(Start: 49 @20759 has 762 MA's), (79, 20897), (127, 21137), (136, 21158), (140, 21185), (141, 21194),

Gene: Ph8s_30 Start: 20730, Stop: 21179, Start Num: 53

Candidate Starts for Ph8s_30:

(Start: 53 @20730 has 5 MA's), (66, 20808), (79, 20868), (103, 21000), (105, 21021), (107, 21027), (125, 21099), (140, 21156),

Gene: Phacado_28 Start: 21626, Stop: 22072, Start Num: 49

Candidate Starts for Phacado_28:

(Start: 49 @21626 has 762 MA's), (65, 21695), (66, 21701), (70, 21722), (76, 21743), (87, 21794), (105, 21914), (112, 21944), (119, 21968), (125, 21992), (126, 21995), (140, 22049),

Gene: Phaded_32 Start: 23922, Stop: 24368, Start Num: 47

Candidate Starts for Phaded_32:

(Start: 47 @23922 has 6 MA's), (66, 23997), (75, 24036), (79, 24057), (103, 24189), (112, 24240), (125, 24288), (135, 24315),

Gene: Phaeder_31 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for Phaeder_31:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: PhailMary_23 Start: 18310, Stop: 18750, Start Num: 49

Candidate Starts for PhailMary_23:

(11, 18091), (12, 18112), (30, 18229), (Start: 49 @18310 has 762 MA's), (59, 18337), (85, 18463), (87, 18478), (93, 18505), (107, 18601), (116, 18640),

Gene: Phantastic_28 Start: 21687, Stop: 22169, Start Num: 38

Candidate Starts for Phantastic_28:

(Start: 38 @21687 has 1 MA's), (43, 21711), (Start: 49 @21726 has 762 MA's), (65, 21795), (70, 21822), (105, 22014), (107, 22020), (112, 22044), (125, 22092), (135, 22119),

Gene: Pharaoh_29 Start: 23062, Stop: 23511, Start Num: 49

Candidate Starts for Pharaoh_29:

(Start: 49 @23062 has 762 MA's), (56, 23068), (61, 23116), (66, 23140), (79, 23200), (103, 23332), (125, 23431), (135, 23458), (140, 23488),

Gene: Phelipe_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Phelipe_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: PherrisBueller_29 Start: 22806, Stop: 23252, Start Num: 49

Candidate Starts for PherrisBueller_29:

(Start: 49 @22806 has 762 MA's), (57, 22818), (73, 22920), (74, 22923), (85, 22965), (86, 22971), (133, 23199),

Gene: Phighter1804_28 Start: 21605, Stop: 22051, Start Num: 49

Candidate Starts for Phighter1804_28:

(Start: 49 @21605 has 762 MA's), (65, 21674), (66, 21680), (70, 21701), (76, 21722), (87, 21773), (105, 21893), (112, 21923), (119, 21947), (125, 21971), (126, 21974), (140, 22028),

Gene: Phillis_25 Start: 20438, Stop: 20884, Start Num: 49

Candidate Starts for Phillis_25:

(Start: 49 @20438 has 762 MA's), (63, 20501), (65, 20510), (75, 20555), (93, 20636), (107, 20735), (113, 20759), (139, 20858), (140, 20864),

Gene: PhishRPhriends_29 Start: 21463, Stop: 21906, Start Num: 49

Candidate Starts for PhishRPhriends_29:

(Start: 49 @21463 has 762 MA's), (65, 21532), (70, 21559), (87, 21631), (105, 21751), (112, 21781), (125, 21829), (142, 21898),

Gene: Phlei_24 Start: 23555, Stop: 24004, Start Num: 49

Candidate Starts for Phlei_24:

(Start: 49 @23555 has 762 MA's), (66, 23633), (79, 23693), (86, 23717), (103, 23825), (105, 23846), (125, 23924), (140, 23981), (141, 23990), (142, 23993),

Gene: Phlorence_25 Start: 21577, Stop: 22041, Start Num: 49

Candidate Starts for Phlorence_25:

(Start: 49 @21577 has 762 MA's), (113, 21901), (116, 21913), (127, 21955), (141, 22012),

Gene: Phoebe_30 Start: 22196, Stop: 22639, Start Num: 49

Candidate Starts for Phoebe_30:

(Start: 49 @22196 has 762 MA's), (65, 22265), (70, 22292), (87, 22364), (105, 22484), (112, 22514), (125, 22562), (142, 22631),

Gene: Phonnegut_31 Start: 23590, Stop: 24039, Start Num: 49

Candidate Starts for Phonnegut_31:

(Start: 49 @23590 has 762 MA's), (66, 23671), (105, 23884), (112, 23914), (125, 23962), (140, 24019),

Gene: Phontbonne_28 Start: 21571, Stop: 22017, Start Num: 49

Candidate Starts for Phontbonne_28:

(Start: 49 @21571 has 762 MA's), (65, 21640), (66, 21646), (70, 21667), (76, 21688), (87, 21739), (105, 21859), (112, 21889), (119, 21913), (125, 21937), (126, 21940), (140, 21994),

Gene: Phoxy_30 Start: 22282, Stop: 22725, Start Num: 49

Candidate Starts for Phoxy_30:

(Start: 49 @22282 has 762 MA's), (65, 22351), (70, 22378), (87, 22450), (105, 22570), (112, 22600), (125, 22648), (142, 22717),

Gene: Phrankenstein_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Phrankenstein_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Phranny_31 Start: 22271, Stop: 22714, Start Num: 49

Candidate Starts for Phranny_31:

(Start: 49 @22271 has 762 MA's), (65, 22340), (70, 22367), (87, 22439), (105, 22559), (112, 22589), (125, 22637), (142, 22706),

Gene: PhrostyMug_28 Start: 23000, Stop: 23446, Start Num: 49

Candidate Starts for PhrostyMug_28:

(Start: 49 @23000 has 762 MA's), (73, 23114), (74, 23117), (85, 23159), (86, 23165), (133, 23393),

Gene: PickleBack_25 Start: 21291, Stop: 21755, Start Num: 49

Candidate Starts for PickleBack_25:

(Start: 49 @21291 has 762 MA's), (75, 21408), (101, 21552), (127, 21669), (128, 21672), (137, 21696), (141, 21726),

Gene: PinkPlastic_27 Start: 22740, Stop: 23186, Start Num: 49

Candidate Starts for PinkPlastic_27:

(Start: 49 @22740 has 762 MA's), (57, 22752), (73, 22854), (74, 22857), (85, 22899), (86, 22905), (133, 23133),

Gene: Pinto_31 Start: 23553, Stop: 23999, Start Num: 49

Candidate Starts for Pinto_31:

(Start: 49 @23553 has 762 MA's), (73, 23667), (74, 23670), (85, 23712), (86, 23718), (133, 23946),

Gene: Pioneer_31 Start: 23590, Stop: 24039, Start Num: 49

Candidate Starts for Pioneer_31:

(Start: 49 @23590 has 762 MA's), (66, 23671), (105, 23884), (112, 23914), (125, 23962), (140, 24019),

Gene: Pipcraft_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Pipcraft_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Pippin_30 Start: 23304, Stop: 23750, Start Num: 49

Candidate Starts for Pippin_30:

(Start: 49 @23304 has 762 MA's), (73, 23418), (74, 23421), (85, 23463), (86, 23469), (133, 23697),

Gene: Piro94_30 Start: 22461, Stop: 22907, Start Num: 49

Candidate Starts for Piro94_30:

(3, 22230), (23, 22416), (Start: 24 @22422 has 1 MA's), (Start: 49 @22461 has 762 MA's), (66, 22536), (75, 22575), (103, 22728), (125, 22827), (135, 22854), (140, 22884),

Gene: Pistachio_29 Start: 21306, Stop: 21749, Start Num: 49

Candidate Starts for Pistachio_29:

(Start: 42 @21279 has 1 MA's), (Start: 49 @21306 has 762 MA's), (65, 21375), (70, 21402), (105, 21594), (112, 21624), (125, 21672), (135, 21699), (142, 21741),

Gene: Pita2_30 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for Pita2_30:

(Start: 49 @23482 has 762 MA's), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: Pmask_32 Start: 21758, Stop: 22210, Start Num: 49

Candidate Starts for Pmask_32:

(Start: 49 @21758 has 762 MA's), (61, 21815), (66, 21839), (86, 21923), (103, 22031), (112, 22082), (125, 22130), (130, 22145),

Gene: Pocahontas_29 Start: 22274, Stop: 22717, Start Num: 49

Candidate Starts for Pocahontas_29:

(Start: 49 @22274 has 762 MA's), (65, 22343), (70, 22370), (87, 22442), (105, 22562), (112, 22592), (125, 22640),

Gene: Polymorphads_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Polymorphads_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993),

Gene: Pomar16_32 Start: 21897, Stop: 22340, Start Num: 51

Candidate Starts for Pomar16_32:

(Start: 51 @21897 has 21 MA's), (66, 21972), (79, 22032), (103, 22164), (112, 22215), (125, 22263), (140, 22320), (143, 22332),

Gene: Pons_19 Start: 17110, Stop: 17502, Start Num: 49

Candidate Starts for Pons_19:

(Start: 49 @17110 has 762 MA's), (58, 17131), (64, 17185), (65, 17191), (67, 17200), (71, 17221), (75, 17236), (79, 17257), (108, 17398), (111, 17407), (117, 17428),

Gene: Poompha_27 Start: 19688, Stop: 20134, Start Num: 49

Candidate Starts for Poompha_27:

(Start: 49 @19688 has 762 MA's), (65, 19757), (70, 19784), (87, 19856), (112, 20006), (125, 20054),

Gene: Popcicle_29 Start: 22274, Stop: 22717, Start Num: 49

Candidate Starts for Popcicle_29:

(Start: 49 @22274 has 762 MA's), (65, 22343), (70, 22370), (87, 22442), (105, 22562), (112, 22592), (125, 22640),

Gene: PotPie_19 Start: 17975, Stop: 18367, Start Num: 49

Candidate Starts for PotPie_19:

(Start: 49 @17975 has 762 MA's), (58, 17996), (64, 18050), (65, 18056), (67, 18065), (71, 18086), (75, 18101), (79, 18122), (108, 18263), (111, 18272), (117, 18293),

Gene: PotatoSplit_31 Start: 22198, Stop: 22641, Start Num: 49

Candidate Starts for PotatoSplit_31:

(Start: 49 @22198 has 762 MA's), (65, 22267), (70, 22294), (87, 22366), (105, 22486), (112, 22516), (125, 22564), (142, 22633),

Gene: Poushou_20 Start: 19090, Stop: 19509, Start Num: 54

Candidate Starts for Poushou_20:

(Start: 54 @19090 has 5 MA's), (64, 19159), (75, 19213),

Gene: Power_29 Start: 21907, Stop: 22353, Start Num: 49

Candidate Starts for Power_29:

(Start: 49 @21907 has 762 MA's), (66, 21982), (79, 22042), (103, 22174), (125, 22273), (135, 22300), (140, 22330),

Gene: Priamo_32 Start: 21807, Stop: 22259, Start Num: 49

Candidate Starts for Priamo_32:

(Start: 49 @21807 has 762 MA's), (61, 21864), (66, 21888), (86, 21972), (103, 22080), (112, 22131), (125, 22179), (130, 22194),

Gene: Priya_31 Start: 23624, Stop: 24073, Start Num: 49

Candidate Starts for Priya_31:

(Start: 31 @23585 has 1 MA's), (Start: 49 @23624 has 762 MA's), (66, 23705), (105, 23918), (112, 23948), (125, 23996), (140, 24053),

Gene: ProMouse_27 Start: 23445, Stop: 23891, Start Num: 49

Candidate Starts for ProMouse_27:

(Start: 49 @23445 has 762 MA's), (73, 23559), (74, 23562), (85, 23604), (86, 23610), (133, 23838),

Gene: PsychoKiller_19 Start: 17442, Stop: 17831, Start Num: 52

Candidate Starts for PsychoKiller_19:

(Start: 52 @17442 has 25 MA's), (63, 17514), (64, 17517), (67, 17532), (71, 17553), (75, 17568), (79, 17589), (91, 17631), (104, 17697), (109, 17733), (111, 17739), (117, 17760), (129, 17802),

Gene: Pukovnik_31 Start: 23478, Stop: 23930, Start Num: 48

Candidate Starts for Pukovnik_31:

(Start: 48 @23478 has 3 MA's), (66, 23559), (103, 23751), (105, 23772), (112, 23802), (125, 23850), (135, 23877), (140, 23907),

Gene: Pumbaa_28 Start: 21602, Stop: 22048, Start Num: 49

Candidate Starts for Pumbaa_28:

(Start: 49 @21602 has 762 MA's), (65, 21671), (66, 21677), (70, 21698), (76, 21719), (87, 21770), (105, 21890), (112, 21920), (119, 21944), (125, 21968), (126, 21971),

Gene: Puppy_29 Start: 21376, Stop: 21819, Start Num: 49

Candidate Starts for Puppy_29:

(14, 21190), (Start: 42 @21349 has 1 MA's), (Start: 49 @21376 has 762 MA's), (65, 21445), (70, 21472), (105, 21664), (112, 21694), (125, 21742), (135, 21769), (142, 21811),

Gene: PurpleHaze_30 Start: 22278, Stop: 22721, Start Num: 49

Candidate Starts for PurpleHaze_30:

(Start: 49 @22278 has 762 MA's), (65, 22347), (70, 22374), (87, 22446), (105, 22566), (112, 22596), (125, 22644), (142, 22713),

Gene: QTRlifeCrisis_28 Start: 23560, Stop: 24006, Start Num: 49

Candidate Starts for QTRlifeCrisis_28:

(Start: 49 @23560 has 762 MA's), (57, 23572), (73, 23674), (74, 23677), (85, 23719), (86, 23725), (133, 23953),

Gene: Qobbit_31 Start: 23587, Stop: 24036, Start Num: 49

Candidate Starts for Qobbit_31:

(Start: 49 @23587 has 762 MA's), (66, 23668), (105, 23881), (112, 23911), (125, 23959), (140, 24016),

Gene: Quasar_19 Start: 18051, Stop: 18440, Start Num: 52

Candidate Starts for Quasar_19:

(Start: 52 @18051 has 25 MA's), (63, 18123), (64, 18126), (67, 18141), (71, 18162), (75, 18177), (79, 18198), (91, 18240), (104, 18306), (109, 18342), (111, 18348), (117, 18369), (129, 18411),

Gene: QueenB2_29 Start: 22025, Stop: 22471, Start Num: 49

Candidate Starts for QueenB2_29:

(Start: 49 @22025 has 762 MA's), (66, 22100), (79, 22160), (103, 22292), (125, 22391), (135, 22418), (140, 22448),

Gene: QueenBeesly_29 Start: 21907, Stop: 22353, Start Num: 49

Candidate Starts for QueenBeesly_29:

(Start: 49 @21907 has 762 MA's), (66, 21982), (79, 22042), (103, 22174), (125, 22273), (135, 22300), (140, 22330),

Gene: QuinnKiro_28 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for QuinnKiro_28:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Quokka_27 Start: 20882, Stop: 21325, Start Num: 51

Candidate Starts for Quokka_27:

(Start: 51 @20882 has 21 MA's), (66, 20957), (79, 21017), (112, 21200), (125, 21248), (140, 21305),

Gene: RER2_17 Start: 14860, Stop: 15300, Start Num: 49

Candidate Starts for RER2_17:

(11, 14641), (12, 14662), (30, 14779), (33, 14812), (Start: 49 @14860 has 762 MA's), (59, 14887), (85, 15013), (87, 15028), (93, 15055), (107, 15151), (116, 15190),

Gene: RGL3_17 Start: 15019, Stop: 15459, Start Num: 49

Candidate Starts for RGL3_17:

(6, 14749), (8, 14767), (9, 14782), (11, 14800), (25, 14923), (Start: 49 @15019 has 762 MA's), (59, 15046), (85, 15172), (87, 15187), (105, 15304), (107, 15310), (116, 15349), (119, 15358), (122, 15373),

Gene: Rachaly_32 Start: 23623, Stop: 24069, Start Num: 49

Candidate Starts for Rachaly_32:

(3, 23392), (13, 23488), (23, 23578), (Start: 24 @23584 has 1 MA's), (Start: 49 @23623 has 762 MA's), (66, 23698), (79, 23758), (103, 23890), (125, 23989), (135, 24016), (140, 24046),

Gene: Rahalelujah_28 Start: 21416, Stop: 21865, Start Num: 49

Candidate Starts for Rahalelujah_28:

(Start: 49 @21416 has 762 MA's), (66, 21494), (103, 21686), (112, 21737), (125, 21785),

Gene: Rajelicia_28 Start: 22719, Stop: 23165, Start Num: 49

Candidate Starts for Rajelicia_28:

(Start: 49 @22719 has 762 MA's), (73, 22833), (74, 22836), (85, 22878), (86, 22884), (133, 23112),

Gene: RanchParmCat_22 Start: 17157, Stop: 17549, Start Num: 49

Candidate Starts for RanchParmCat_22:

(34, 17103), (Start: 49 @17157 has 762 MA's), (58, 17178), (67, 17247), (71, 17268), (75, 17283), (79, 17304), (91, 17346), (111, 17454), (114, 17463), (117, 17475),

Gene: Rasputin_24 Start: 17956, Stop: 18396, Start Num: 49

Candidate Starts for Rasputin_24:

(11, 17737), (12, 17758), (30, 17875), (Start: 49 @17956 has 762 MA's), (59, 17983), (85, 18109), (87, 18124), (93, 18151), (107, 18247), (116, 18286),

Gene: ReMo_31 Start: 20965, Stop: 21408, Start Num: 49

Candidate Starts for ReMo_31:

(Start: 49 @20965 has 762 MA's), (58, 20974), (65, 21034), (66, 21040), (81, 21103), (90, 21142), (112, 21283), (125, 21331),

Gene: Reba_31 Start: 21944, Stop: 22387, Start Num: 49

Candidate Starts for Reba_31:

(Start: 49 @21944 has 762 MA's), (65, 22013), (70, 22040), (87, 22112), (105, 22232), (112, 22262), (125, 22310), (142, 22379),

Gene: Rebeuca_29 Start: 21787, Stop: 22233, Start Num: 49

Candidate Starts for Rebeuca_29:

(Start: 49 @21787 has 762 MA's), (65, 21856), (70, 21883), (87, 21955), (112, 22105), (125, 22153),

Gene: RedBaron_20 Start: 17486, Stop: 17875, Start Num: 52

Candidate Starts for RedBaron_20:

(Start: 52 @17486 has 25 MA's), (63, 17558), (64, 17561), (67, 17576), (71, 17597), (75, 17612), (79, 17633), (91, 17675), (104, 17741), (109, 17777), (111, 17783), (117, 17804), (129, 17846),

Gene: RedRock_32 Start: 23888, Stop: 24337, Start Num: 49

Candidate Starts for RedRock_32:

(Start: 49 @23888 has 762 MA's), (66, 23969), (79, 24029), (86, 24053), (103, 24161), (105, 24182), (112, 24212), (125, 24260), (135, 24287), (140, 24317),

Gene: Refuge_32 Start: 24901, Stop: 25344, Start Num: 49

Candidate Starts for Refuge_32:

(3, 24670), (4, 24673), (10, 24727), (Start: 49 @24901 has 762 MA's), (66, 24976), (79, 25036), (103, 25168), (107, 25195), (112, 25219), (125, 25267), (135, 25294),

Gene: Relief_28 Start: 21625, Stop: 22071, Start Num: 49

Candidate Starts for Relief_28:

(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994), (140, 22048),

Gene: Remus_31 Start: 20929, Stop: 21372, Start Num: 49

Candidate Starts for Remus_31:

(Start: 49 @20929 has 762 MA's), (58, 20938), (65, 20998), (66, 21004), (81, 21067), (90, 21106), (112, 21247), (125, 21295),

Gene: ResDef_29 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for ResDef_29:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Retro23_29 Start: 22115, Stop: 22561, Start Num: 49

Candidate Starts for Retro23_29:

(Start: 49 @22115 has 762 MA's), (66, 22190), (76, 22232), (79, 22250), (103, 22382), (125, 22481), (135, 22508), (140, 22538),

Gene: RexFury_24 Start: 18019, Stop: 18459, Start Num: 49

Candidate Starts for RexFury_24:

(11, 17800), (12, 17821), (30, 17938), (33, 17971), (Start: 49 @18019 has 762 MA's), (59, 18046), (85, 18172), (87, 18187), (93, 18214), (107, 18310), (116, 18349),

Gene: Rhodalysa_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Rhodalysa_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: RhynO_29 Start: 21744, Stop: 22190, Start Num: 49

Candidate Starts for RhynO_29:

(Start: 49 @21744 has 762 MA's), (65, 21813), (70, 21840), (87, 21912), (112, 22062), (125, 22110),

Gene: Rhynn_28 Start: 23009, Stop: 23455, Start Num: 49

Candidate Starts for Rhynn_28:

(Start: 49 @23009 has 762 MA's), (73, 23123), (74, 23126), (85, 23168), (86, 23174), (133, 23402),

Gene: RidgeCB_28 Start: 22784, Stop: 23230, Start Num: 49

Candidate Starts for RidgeCB_28:

(Start: 49 @22784 has 762 MA's), (57, 22796), (73, 22898), (74, 22901), (85, 22943), (86, 22949), (133, 23177),

Gene: Rifter_32 Start: 21750, Stop: 22202, Start Num: 49

Candidate Starts for Rifter_32:

(Start: 49 @21750 has 762 MA's), (61, 21807), (66, 21831), (86, 21915), (103, 22023), (112, 22074), (125, 22122), (130, 22137),

Gene: Ringer_28 Start: 23661, Stop: 24107, Start Num: 49

Candidate Starts for Ringer_28:

(Start: 49 @23661 has 762 MA's), (73, 23775), (74, 23778), (85, 23820), (86, 23826), (133, 24054),

Gene: Roary_25 Start: 20429, Stop: 20875, Start Num: 49

Candidate Starts for Roary_25:

(Start: 49 @20429 has 762 MA's), (63, 20492), (65, 20501), (75, 20546), (93, 20627), (107, 20726), (113, 20750), (139, 20849), (140, 20855),

Gene: Rockstar_28 Start: 21690, Stop: 22133, Start Num: 49

Candidate Starts for Rockstar_28:

(14, 21504), (Start: 42 @21663 has 1 MA's), (Start: 49 @21690 has 762 MA's), (65, 21759), (70, 21786), (105, 21978), (107, 21984), (112, 22008), (125, 22056), (142, 22125),

Gene: Rohr_29 Start: 23206, Stop: 23652, Start Num: 49

Candidate Starts for Rohr_29:

(Start: 49 @23206 has 762 MA's), (73, 23320), (74, 23323), (85, 23365), (86, 23371), (133, 23599),

Gene: Roksolana_32 Start: 21778, Stop: 22230, Start Num: 49

Candidate Starts for Roksolana_32:

(Start: 49 @21778 has 762 MA's), (61, 21835), (66, 21859), (86, 21943), (103, 22051), (112, 22102), (125, 22150), (130, 22165),

Gene: Romney_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Romney_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Ronaldo_57 Start: 30613, Stop: 31011, Start Num: 45

Candidate Starts for Ronaldo_57:

(Start: 45 @30613 has 11 MA's), (56, 30634), (64, 30694), (65, 30700), (69, 30724), (75, 30745), (77, 30751), (79, 30766), (94, 30835), (96, 30856), (100, 30892), (115, 30955), (117, 30964), (118, 30967),

Gene: Roosevelt_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Roosevelt_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Rosa24_27 Start: 21602, Stop: 22048, Start Num: 49

Candidate Starts for Rosa24_27:

(Start: 49 @21602 has 762 MA's), (65, 21671), (66, 21677), (70, 21698), (76, 21719), (87, 21770), (105, 21890), (112, 21920), (119, 21944), (125, 21968), (126, 21971), (140, 22025),

Gene: Rosalind_31 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for Rosalind_31:

(Start: 49 @21087 has 762 MA's), (58, 21096), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: Rowdy_32 Start: 21655, Stop: 22101, Start Num: 49

Candidate Starts for Rowdy_32:

(Start: 49 @21655 has 762 MA's), (65, 21724), (70, 21751), (87, 21823), (112, 21973), (125, 22021),

Gene: Rubeus_29 Start: 23044, Stop: 23490, Start Num: 49

Candidate Starts for Rubeus_29:

(Start: 49 @23044 has 762 MA's), (73, 23158), (74, 23161), (85, 23203), (86, 23209), (133, 23437),

Gene: Rufus_29 Start: 23346, Stop: 23792, Start Num: 49

Candidate Starts for Rufus_29:

(Start: 49 @23346 has 762 MA's), (57, 23358), (73, 23460), (74, 23463), (85, 23505), (86, 23511), (133, 23739),

Gene: Ruin_28 Start: 21623, Stop: 22069, Start Num: 49

Candidate Starts for Ruin_28:

(Start: 49 @21623 has 762 MA's), (65, 21692), (66, 21698), (70, 21719), (76, 21740), (87, 21791), (105, 21911), (112, 21941), (119, 21965), (125, 21989), (126, 21992), (140, 22046),

Gene: Rummer_30 Start: 22282, Stop: 22725, Start Num: 49

Candidate Starts for Rummer_30:

(Start: 49 @22282 has 762 MA's), (65, 22351), (70, 22378), (87, 22450), (105, 22570), (112, 22600), (125, 22648), (142, 22717),

Gene: Ruotula_27 Start: 23550, Stop: 23996, Start Num: 49

Candidate Starts for Ruotula_27:

(Start: 49 @23550 has 762 MA's), (57, 23562), (73, 23664), (74, 23667), (85, 23709), (86, 23715), (133, 23943),

Gene: Rutherferd_30 Start: 23615, Stop: 24061, Start Num: 49

Candidate Starts for Rutherferd_30:

(Start: 49 @23615 has 762 MA's), (57, 23627), (73, 23729), (74, 23732), (85, 23774), (86, 23780), (133, 24008),

Gene: RyeScarlet_32 Start: 23561, Stop: 24010, Start Num: 49

Candidate Starts for RyeScarlet_32:

(Start: 49 @23561 has 762 MA's), (66, 23642), (105, 23855), (112, 23885), (125, 23933), (140, 23990),

Gene: STLscum_29 Start: 23753, Stop: 24199, Start Num: 49

Candidate Starts for STLscum_29:

(Start: 49 @23753 has 762 MA's), (57, 23765), (73, 23867), (74, 23870), (85, 23912), (86, 23918), (133, 24146),

Gene: Sabertooth_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Sabertooth_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Sabia_30 Start: 22191, Stop: 22634, Start Num: 49

Candidate Starts for Sabia_30:

(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509), (125, 22557), (142, 22626),

Gene: Sabinator_30 Start: 22196, Stop: 22639, Start Num: 49

Candidate Starts for Sabinator_30:

(Start: 49 @22196 has 762 MA's), (65, 22265), (70, 22292), (87, 22364), (105, 22484), (112, 22514), (125, 22562), (142, 22631),

Gene: Sachima_29 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for Sachima_29:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: Sagefire_29 Start: 23786, Stop: 24232, Start Num: 49

Candidate Starts for Sagefire_29:

(Start: 49 @23786 has 762 MA's), (73, 23900), (74, 23903), (85, 23945), (86, 23951), (133, 24179),

Gene: Saintus_25 Start: 20444, Stop: 20890, Start Num: 49

Candidate Starts for Saintus_25:

(Start: 49 @20444 has 762 MA's), (63, 20507), (65, 20516), (73, 20555), (75, 20561), (93, 20642), (107, 20741), (113, 20765), (139, 20864), (140, 20870),

Gene: Salz_29 Start: 22624, Stop: 23067, Start Num: 50

Candidate Starts for Salz_29:

(Start: 50 @22624 has 23 MA's), (66, 22699), (103, 22891), (105, 22912), (125, 22990), (141, 23056),

Gene: Sandaddy_27 Start: 22899, Stop: 23345, Start Num: 49

Candidate Starts for Sandaddy_27:

(Start: 49 @22899 has 762 MA's), (73, 23013), (74, 23016), (85, 23058), (86, 23064), (133, 23292),

Gene: Sanya_27 Start: 23583, Stop: 24029, Start Num: 49

Candidate Starts for Sanya_27:

(Start: 49 @23583 has 762 MA's), (73, 23697), (74, 23700), (85, 23742), (86, 23748), (133, 23976),

Gene: SarFire_28 Start: 23061, Stop: 23507, Start Num: 49

Candidate Starts for SarFire_28:

(Start: 49 @23061 has 762 MA's), (73, 23175), (74, 23178), (85, 23220), (86, 23226), (133, 23454),

Gene: SaturnRing_28 Start: 21759, Stop: 22202, Start Num: 49

Candidate Starts for SaturnRing_28:

(Start: 42 @21732 has 1 MA's), (Start: 49 @21759 has 762 MA's), (65, 21828), (70, 21855), (105, 22047), (112, 22077), (125, 22125), (135, 22152), (142, 22194),

Gene: Scamp_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Scamp_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Scherzo_31 Start: 23590, Stop: 24039, Start Num: 49

Candidate Starts for Scherzo_31:

(Start: 49 @23590 has 762 MA's), (66, 23671), (105, 23884), (112, 23914), (125, 23962), (140, 24019),

Gene: Scorpia_26 Start: 20762, Stop: 21226, Start Num: 49

Candidate Starts for Scorpia_26:

(Start: 49 @20762 has 762 MA's), (127, 21140), (136, 21161), (140, 21188), (141, 21197),

Gene: Scout_28 Start: 21063, Stop: 21506, Start Num: 49

Candidate Starts for Scout_28:

(14, 20877), (Start: 42 @21036 has 1 MA's), (Start: 49 @21063 has 762 MA's), (65, 21132), (70, 21159), (105, 21351), (107, 21357), (112, 21381), (125, 21429), (142, 21498),

Gene: Scowl_29 Start: 23643, Stop: 24089, Start Num: 49

Candidate Starts for Scowl_29:

(Start: 49 @23643 has 762 MA's), (73, 23757), (74, 23760), (85, 23802), (86, 23808), (133, 24036),

Gene: Seabiscuit_30 Start: 22967, Stop: 23413, Start Num: 49

Candidate Starts for Seabiscuit_30:

(Start: 49 @22967 has 762 MA's), (57, 22979), (73, 23081), (74, 23084), (85, 23126), (86, 23132), (133, 23360),

Gene: Seanderson_29 Start: 23441, Stop: 23887, Start Num: 49

Candidate Starts for Seanderson_29:

(Start: 49 @23441 has 762 MA's), (73, 23555), (74, 23558), (85, 23600), (86, 23606), (133, 23834),

Gene: SemperFi_31 Start: 22324, Stop: 22770, Start Num: 49

Candidate Starts for SemperFi_31:

(Start: 49 @22324 has 762 MA's), (66, 22399), (79, 22459), (103, 22591), (125, 22690), (135, 22717), (140, 22747),

Gene: Serenity_28 Start: 20965, Stop: 21450, Start Num: 24

Candidate Starts for Serenity_28:

(Start: 24 @20965 has 1 MA's), (Start: 51 @21007 has 21 MA's), (66, 21082), (75, 21121), (79, 21142), (103, 21274), (112, 21325), (125, 21373), (140, 21430),

Gene: Severus_27 Start: 19688, Stop: 20134, Start Num: 49

Candidate Starts for Severus_27:

(Start: 49 @19688 has 762 MA's), (65, 19757), (70, 19784), (87, 19856), (112, 20006), (125, 20054),

Gene: Shaka_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Shaka_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Sham4_29 Start: 22630, Stop: 23073, Start Num: 50

Candidate Starts for Sham4_29:

(Start: 50 @22630 has 23 MA's), (66, 22705), (103, 22897), (105, 22918), (125, 22996), (141, 23062),

Gene: Shapes_32 Start: 21655, Stop: 22101, Start Num: 49

Candidate Starts for Shapes_32:

(Start: 49 @21655 has 762 MA's), (65, 21724), (70, 21751), (87, 21823), (112, 21973), (125, 22021),

Gene: ShayRa_32 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for ShayRa_32:

(Start: 49 @21087 has 762 MA's), (58, 21096), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: SheaKeira_29 Start: 21534, Stop: 21983, Start Num: 49

Candidate Starts for SheaKeira_29:

(Start: 49 @21534 has 762 MA's), (66, 21612), (103, 21804), (105, 21825), (112, 21855), (125, 21903),

Gene: SheckWes_18 Start: 17110, Stop: 17502, Start Num: 49

Candidate Starts for SheckWes_18:

(Start: 49 @17110 has 762 MA's), (58, 17131), (64, 17185), (65, 17191), (67, 17200), (71, 17221), (75, 17236), (79, 17257), (108, 17398), (111, 17407), (117, 17428),

Gene: Sheen_30 Start: 24798, Stop: 25265, Start Num: 49

Candidate Starts for Sheen_30:

(Start: 49 @24798 has 762 MA's), (59, 24840), (66, 24888), (70, 24909), (79, 24948), (87, 24981), (88, 24984), (138, 25224),

Gene: SheldonCooper_29 Start: 21942, Stop: 22388, Start Num: 49

Candidate Starts for SheldonCooper_29:

(Start: 49 @21942 has 762 MA's), (65, 22011), (66, 22017), (70, 22038), (76, 22059), (87, 22110), (105, 22230), (112, 22260), (114, 22266), (119, 22284), (125, 22308), (126, 22311),

Gene: ShortQueendom_27 Start: 22881, Stop: 23327, Start Num: 49

Candidate Starts for ShortQueendom_27:

(Start: 49 @22881 has 762 MA's), (73, 22995), (74, 22998), (85, 23040), (86, 23046), (133, 23274),

Gene: Shuman_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Shuman_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Shygu2_28 Start: 21639, Stop: 22085, Start Num: 49

Candidate Starts for Shygu2_28:

(Start: 49 @21639 has 762 MA's), (65, 21708), (70, 21735), (75, 21753), (87, 21807), (105, 21927), (112, 21957), (116, 21972), (125, 22005),

Gene: Sibs6_30 Start: 23526, Stop: 23972, Start Num: 49

Candidate Starts for Sibs6_30:

(Start: 49 @23526 has 762 MA's), (73, 23640), (74, 23643), (85, 23685), (86, 23691), (133, 23919),

Gene: SketchMex_18 Start: 17088, Stop: 17486, Start Num: 45

Candidate Starts for SketchMex_18:

(Start: 45 @17088 has 11 MA's), (Start: 52 @17097 has 25 MA's), (63, 17169), (64, 17172), (67, 17187), (71, 17208), (75, 17223), (77, 17229), (83, 17253), (104, 17352), (111, 17394), (117, 17415), (129, 17457),

Gene: SkiPole_30 Start: 23265, Stop: 23711, Start Num: 49

Candidate Starts for SkiPole_30:

(Start: 49 @23265 has 762 MA's), (73, 23379), (74, 23382), (85, 23424), (86, 23430), (133, 23658),

Gene: Skipitt_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for Skipitt_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Slagathor_29 Start: 22926, Stop: 23372, Start Num: 49

Candidate Starts for Slagathor_29:

(Start: 49 @22926 has 762 MA's), (73, 23040), (74, 23043), (85, 23085), (86, 23091), (133, 23319),

Gene: Smairt_29 Start: 23701, Stop: 24147, Start Num: 49

Candidate Starts for Smairt_29:

(Start: 49 @23701 has 762 MA's), (73, 23815), (74, 23818), (85, 23860), (86, 23866), (133, 24094),

Gene: Smeadley_25 Start: 20462, Stop: 20908, Start Num: 49

Candidate Starts for Smeadley_25:

(Start: 49 @20462 has 762 MA's), (63, 20525), (65, 20534), (70, 20561), (73, 20573), (75, 20579), (93, 20660), (107, 20759), (113, 20783), (139, 20882), (140, 20888),

Gene: Smeagan_31 Start: 22481, Stop: 22927, Start Num: 49

Candidate Starts for Smeagan_31:

(1, 22169), (5, 22259), (Start: 24 @22442 has 1 MA's), (Start: 49 @22481 has 762 MA's), (66, 22556), (79, 22616), (103, 22748), (125, 22847), (135, 22874),

Gene: Smeagol_30 Start: 24280, Stop: 24726, Start Num: 49

Candidate Starts for Smeagol_30:

(Start: 49 @24280 has 762 MA's), (73, 24394), (74, 24397), (85, 24439), (86, 24445), (133, 24673),

Gene: SmellyB_32 Start: 21764, Stop: 22216, Start Num: 49

Candidate Starts for SmellyB_32:

(Start: 49 @21764 has 762 MA's), (61, 21821), (66, 21845), (86, 21929), (103, 22037), (112, 22088), (125, 22136), (130, 22151),

Gene: SnapTap_29 Start: 21967, Stop: 22413, Start Num: 49

Candidate Starts for SnapTap_29:

(Start: 49 @21967 has 762 MA's), (66, 22042), (103, 22234), (125, 22333), (135, 22360), (140, 22390),

Gene: Snape_29 Start: 22630, Stop: 23073, Start Num: 50

Candidate Starts for Snape_29:

(Start: 50 @22630 has 23 MA's), (66, 22705), (103, 22897), (105, 22918), (125, 22996), (141, 23062),

Gene: Snazzy_27 Start: 22887, Stop: 23333, Start Num: 49

Candidate Starts for Snazzy_27:

(Start: 49 @22887 has 762 MA's), (57, 22899), (73, 23001), (74, 23004), (85, 23046), (86, 23052), (133, 23280),

Gene: Snickers_30 Start: 22172, Stop: 22615, Start Num: 49

Candidate Starts for Snickers_30:

(Start: 49 @22172 has 762 MA's), (65, 22241), (70, 22268), (87, 22340), (105, 22460), (112, 22490), (125, 22538), (142, 22607),

Gene: SoYo_30 Start: 22109, Stop: 22552, Start Num: 49

Candidate Starts for SoYo_30:

(Start: 49 @22109 has 762 MA's), (65, 22178), (70, 22205), (87, 22277), (105, 22397), (112, 22427), (125, 22475), (142, 22544),

Gene: SoilDragon_30 Start: 21886, Stop: 22329, Start Num: 49

Candidate Starts for SoilDragon_30:

(Start: 49 @21886 has 762 MA's), (65, 21955), (70, 21982), (87, 22054), (105, 22174), (112, 22204), (125, 22252), (142, 22321),

Gene: Solon_28 Start: 23552, Stop: 23998, Start Num: 49

Candidate Starts for Solon_28:

(Start: 49 @23552 has 762 MA's), (57, 23564), (73, 23666), (74, 23669), (85, 23711), (86, 23717), (133, 23945),

Gene: Sopespian_19 Start: 17443, Stop: 17832, Start Num: 52

Candidate Starts for Sopespian_19:

(Start: 52 @17443 has 25 MA's), (63, 17515), (64, 17518), (67, 17533), (71, 17554), (75, 17569), (79, 17590), (91, 17632), (104, 17698), (109, 17734), (111, 17740), (117, 17761), (129, 17803),

Gene: SororFago_29 Start: 21258, Stop: 21707, Start Num: 49

Candidate Starts for SororFago_29:

(Start: 49 @21258 has 762 MA's), (66, 21336), (103, 21528), (112, 21579), (125, 21627), (135, 21654), (140, 21684),

Gene: Sorpresa_28 Start: 22899, Stop: 23345, Start Num: 49

Candidate Starts for Sorpresa_28:

(Start: 49 @22899 has 762 MA's), (73, 23013), (74, 23016), (85, 23058), (86, 23064), (133, 23292),

Gene: Soshari_32 Start: 22281, Stop: 22724, Start Num: 49

Candidate Starts for Soshari_32:

(Start: 49 @22281 has 762 MA's), (65, 22350), (70, 22377), (87, 22449), (105, 22569), (112, 22599), (125, 22647), (142, 22716),

Gene: Soul22_20 Start: 15406, Stop: 15771, Start Num: 55

Candidate Starts for Soul22_20:

(27, 15298), (37, 15352), (Start: 55 @15406 has 8 MA's), (62, 15466), (64, 15472), (67, 15487), (69, 15502), (71, 15508), (77, 15529), (78, 15532), (104, 15649), (112, 15691), (120, 15724),

Gene: Soups_31 Start: 21087, Stop: 21530, Start Num: 49

Candidate Starts for Soups_31:

(Start: 49 @21087 has 762 MA's), (58, 21096), (65, 21156), (66, 21162), (81, 21225), (90, 21264), (112, 21405), (125, 21453),

Gene: Sparxx_28 Start: 21625, Stop: 22071, Start Num: 49

Candidate Starts for Sparxx_28:

(Start: 49 @21625 has 762 MA's), (65, 21694), (66, 21700), (70, 21721), (76, 21742), (87, 21793), (105, 21913), (112, 21943), (119, 21967), (125, 21991), (126, 21994), (140, 22048),

Gene: Spike509_30 Start: 22282, Stop: 22725, Start Num: 49

Candidate Starts for Spike509_30:

(Start: 49 @22282 has 762 MA's), (65, 22351), (70, 22378), (87, 22450), (105, 22570), (112, 22600), (125, 22648), (142, 22717),

Gene: SpikeBT_30 Start: 23857, Stop: 24303, Start Num: 49

Candidate Starts for SpikeBT_30:

(Start: 49 @23857 has 762 MA's), (73, 23971), (74, 23974), (85, 24016), (86, 24022), (133, 24250),

Gene: Spino_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Spino_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (140, 22050),

Gene: Spouty_31 Start: 23623, Stop: 24072, Start Num: 49

Candidate Starts for Spouty_31:

(Start: 31 @23584 has 1 MA's), (Start: 49 @23623 has 762 MA's), (66, 23704), (105, 23917), (112, 23947), (125, 23995), (140, 24052),

Gene: Squee_29 Start: 23806, Stop: 24252, Start Num: 49

Candidate Starts for Squee_29:

(Start: 49 @23806 has 762 MA's), (73, 23920), (74, 23923), (85, 23965), (86, 23971), (133, 24199),

Gene: StCroix_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for StCroix_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Stagni_30 Start: 22200, Stop: 22643, Start Num: 49

Candidate Starts for Stagni_30:

(Start: 49 @22200 has 762 MA's), (65, 22269), (70, 22296), (87, 22368), (105, 22488), (112, 22518), (125, 22566), (142, 22635),

Gene: StarStuff_32 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for StarStuff_32:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: Stasia_29 Start: 22068, Stop: 22514, Start Num: 49

Candidate Starts for Stasia_29:

(Start: 49 @22068 has 762 MA's), (65, 22137), (66, 22143), (70, 22164), (87, 22236), (105, 22356), (112, 22386), (119, 22410), (125, 22434), (135, 22461),

Gene: SteamedHams_21 Start: 17115, Stop: 17504, Start Num: 52

Candidate Starts for SteamedHams_21:

(Start: 45 @17106 has 11 MA's), (Start: 52 @17115 has 25 MA's), (63, 17187), (64, 17190), (67, 17205), (71, 17226), (78, 17250), (104, 17370), (111, 17412), (117, 17433), (129, 17475),

Gene: Steamy_30 Start: 23043, Stop: 23489, Start Num: 49

Candidate Starts for Steamy_30:

(Start: 49 @23043 has 762 MA's), (61, 23097), (66, 23121), (68, 23133), (79, 23181), (103, 23313), (125, 23412),

Gene: StepMih_30 Start: 22191, Stop: 22634, Start Num: 49

Candidate Starts for StepMih_30:

(Start: 49 @22191 has 762 MA's), (65, 22260), (70, 22287), (87, 22359), (105, 22479), (112, 22509), (125, 22557), (142, 22626),

Gene: Stephig9_25 Start: 20443, Stop: 20889, Start Num: 49

Candidate Starts for Stephig9_25:

(Start: 49 @20443 has 762 MA's), (63, 20506), (65, 20515), (75, 20560), (93, 20641), (107, 20740), (113, 20764), (139, 20863), (140, 20869),

Gene: StewieG_27 Start: 22742, Stop: 23188, Start Num: 49

Candidate Starts for StewieG_27:

(Start: 49 @22742 has 762 MA's), (73, 22856), (74, 22859), (85, 22901), (86, 22907), (133, 23135),

Gene: Stink_29 Start: 21928, Stop: 22374, Start Num: 49

Candidate Starts for Stink_29:

(Start: 49 @21928 has 762 MA's), (65, 21997), (70, 22024), (105, 22216), (112, 22246), (116, 22261), (125, 22294),

Gene: StrongArm_27 Start: 23941, Stop: 24387, Start Num: 49

Candidate Starts for StrongArm_27:

(Start: 49 @23941 has 762 MA's), (57, 23953), (73, 24055), (74, 24058), (85, 24100), (86, 24106), (133, 24334),

Gene: Strosahl_31 Start: 20929, Stop: 21372, Start Num: 49

Candidate Starts for Strosahl_31:

(Start: 49 @20929 has 762 MA's), (58, 20938), (65, 20998), (66, 21004), (81, 21067), (90, 21106), (112, 21247), (125, 21295),

Gene: SummitAcademy_18 Start: 17190, Stop: 17582, Start Num: 49

Candidate Starts for SummitAcademy_18:

(Start: 49 @17190 has 762 MA's), (58, 17211), (64, 17265), (65, 17271), (67, 17280), (71, 17301), (75, 17316), (79, 17337), (108, 17478), (111, 17487), (117, 17508),

Gene: Sumter_27 Start: 22490, Stop: 22936, Start Num: 49

Candidate Starts for Sumter_27:

(Start: 49 @22490 has 762 MA's), (73, 22604), (74, 22607), (85, 22649), (86, 22655), (133, 22883),

Gene: Sunhee_28 Start: 21262, Stop: 21711, Start Num: 49

Candidate Starts for Sunhee_28:

(Start: 49 @21262 has 762 MA's), (75, 21379), (103, 21532), (112, 21583), (125, 21631), (135, 21658), (140, 21688),

Gene: Sunshine924_29 Start: 22771, Stop: 23217, Start Num: 49

Candidate Starts for Sunshine924_29:

(Start: 49 @22771 has 762 MA's), (73, 22885), (74, 22888), (85, 22930), (86, 22936), (133, 23164),

Gene: SuperAwesome_32 Start: 21757, Stop: 22209, Start Num: 49

Candidate Starts for SuperAwesome_32:

(Start: 49 @21757 has 762 MA's), (61, 21814), (66, 21838), (86, 21922), (103, 22030), (112, 22081), (125, 22129), (130, 22144),

Gene: SuperCallie99_32 Start: 21756, Stop: 22208, Start Num: 49

Candidate Starts for SuperCallie99_32:

(Start: 49 @21756 has 762 MA's), (61, 21813), (66, 21837), (86, 21921), (103, 22029), (112, 22080), (125, 22128), (130, 22143),

Gene: Superchunk_28 Start: 20646, Stop: 21095, Start Num: 53

Candidate Starts for Superchunk_28:

(Start: 53 @20646 has 5 MA's), (66, 20724), (79, 20784), (103, 20916), (105, 20937), (107, 20943), (125, 21015), (140, 21072),

Gene: Survivors_21 Start: 18272, Stop: 18658, Start Num: 52

Candidate Starts for Survivors_21:

(Start: 52 @18272 has 25 MA's), (63, 18344), (67, 18362), (71, 18383), (77, 18404), (78, 18407), (83, 18428), (96, 18482), (102, 18521), (106, 18548), (111, 18569), (117, 18590),

Gene: Swann_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for Swann_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: SweatNTears_21 Start: 17608, Stop: 17997, Start Num: 52

Candidate Starts for SweatNTears_21:

(Start: 45 @17599 has 11 MA's), (Start: 52 @17608 has 25 MA's), (63, 17680), (64, 17683), (67, 17698), (71, 17719), (75, 17734), (77, 17740), (83, 17764), (111, 17905), (117, 17926), (129, 17968),

Gene: SweetiePie_29 Start: 21967, Stop: 22413, Start Num: 49

Candidate Starts for SweetiePie_29:

(Start: 49 @21967 has 762 MA's), (66, 22042), (103, 22234), (125, 22333), (135, 22360), (140, 22390),

Gene: SwirlSquare_31 Start: 20806, Stop: 21249, Start Num: 51

Candidate Starts for SwirlSquare_31:

(Start: 51 @20806 has 21 MA's), (66, 20881), (79, 20941), (112, 21124), (125, 21172), (140, 21229),

Gene: Swirley_25 Start: 21444, Stop: 21908, Start Num: 49

Candidate Starts for Swirley_25:

(Start: 49 @21444 has 762 MA's), (113, 21768), (116, 21780), (127, 21822), (140, 21870), (141, 21879),

Gene: SwissCheese_30 Start: 23669, Stop: 24115, Start Num: 49

Candidate Starts for SwissCheese_30:

(36, 23621), (Start: 49 @23669 has 762 MA's), (73, 23783), (74, 23786), (85, 23828), (86, 23834), (133, 24062),

Gene: Switzer_29 Start: 23073, Stop: 23519, Start Num: 49

Candidate Starts for Switzer_29:

(Start: 49 @23073 has 762 MA's), (57, 23085), (73, 23187), (74, 23190), (85, 23232), (86, 23238), (133, 23466),

Gene: Switzerland_31 Start: 21080, Stop: 21523, Start Num: 49

Candidate Starts for Switzerland_31:

(Start: 49 @21080 has 762 MA's), (58, 21089), (65, 21149), (66, 21155), (81, 21218), (90, 21257), (112, 21398), (125, 21446),

Gene: Swole_30 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for Swole_30:

(Start: 49 @23482 has 762 MA's), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: SydNat_25 Start: 21729, Stop: 22193, Start Num: 49

Candidate Starts for SydNat_25:

(Start: 49 @21729 has 762 MA's), (75, 21846), (101, 21990), (127, 22107), (128, 22110), (140, 22155), (141, 22164),

Gene: TNguyen7_28 Start: 21727, Stop: 22170, Start Num: 49

Candidate Starts for TNguyen7_28:

(14, 21541), (Start: 42 @21700 has 1 MA's), (Start: 49 @21727 has 762 MA's), (65, 21796), (70, 21823), (105, 22015), (112, 22045), (125, 22093), (135, 22120), (142, 22162),

Gene: TWAMP_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for TWAMP_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Takoda_24 Start: 17948, Stop: 18388, Start Num: 49

Candidate Starts for Takoda_24:

(11, 17729), (12, 17750), (30, 17867), (33, 17900), (Start: 49 @17948 has 762 MA's), (59, 17975), (85, 18101), (87, 18116), (93, 18143), (107, 18239), (116, 18278), (136, 18341),

Gene: Taquarus_28 Start: 21630, Stop: 22076, Start Num: 49

Candidate Starts for Taquarus_28:

(Start: 49 @21630 has 762 MA's), (65, 21699), (66, 21705), (70, 21726), (76, 21747), (87, 21798), (105, 21918), (112, 21948), (119, 21972), (125, 21996), (126, 21999), (140, 22053),

Gene: Target_31 Start: 24456, Stop: 24902, Start Num: 49

Candidate Starts for Target_31:

(Start: 49 @24456 has 762 MA's), (73, 24570), (74, 24573), (85, 24615), (86, 24621), (133, 24849),

Gene: TarsusIV_29 Start: 22058, Stop: 22504, Start Num: 49

Candidate Starts for TarsusIV_29:

(Start: 49 @22058 has 762 MA's), (66, 22133), (76, 22175), (79, 22193), (103, 22325), (105, 22346), (125, 22424), (135, 22451), (140, 22481),

Gene: Tarynearal_24 Start: 21466, Stop: 21930, Start Num: 49

Candidate Starts for Tarynearal_24:

(Start: 49 @21466 has 762 MA's), (113, 21790), (116, 21802), (127, 21844), (140, 21892), (141, 21901),

Gene: Tasp14_29 Start: 23186, Stop: 23632, Start Num: 49

Candidate Starts for Tasp14_29:

(Start: 49 @23186 has 762 MA's), (57, 23198), (73, 23300), (74, 23303), (85, 23345), (86, 23351), (133, 23579),

Gene: Taurus_30 Start: 22197, Stop: 22640, Start Num: 49

Candidate Starts for Taurus_30:

(Start: 49 @22197 has 762 MA's), (65, 22266), (70, 22293), (87, 22365), (105, 22485), (112, 22515), (125, 22563), (142, 22632),

Gene: Teodoridan_26 Start: 22307, Stop: 22753, Start Num: 49

Candidate Starts for Teodoridan_26:

(Start: 49 @22307 has 762 MA's), (57, 22319), (73, 22421), (74, 22424), (85, 22466), (86, 22472), (133, 22700),

Gene: Texage_28 Start: 22278, Stop: 22721, Start Num: 49

Candidate Starts for Texage_28:

(Start: 49 @22278 has 762 MA's), (65, 22347), (70, 22374), (87, 22446), (105, 22566), (112, 22596), (125, 22644),

Gene: Thanksgivukkah_28 Start: 21631, Stop: 22077, Start Num: 49

Candidate Starts for Thanksgivukkah_28:

(Start: 49 @21631 has 762 MA's), (65, 21700), (66, 21706), (70, 21727), (76, 21748), (87, 21799), (105, 21919), (112, 21949), (119, 21973), (125, 21997), (126, 22000), (140, 22054),

Gene: Theia_23 Start: 21484, Stop: 21948, Start Num: 49

Candidate Starts for Theia_23:

(Start: 49 @21484 has 762 MA's), (113, 21808), (116, 21820), (127, 21862), (136, 21883), (141, 21919),

Gene: TheloniousMonk_30 Start: 24600, Stop: 25046, Start Num: 49

Candidate Starts for TheloniousMonk_30:

(Start: 49 @24600 has 762 MA's), (73, 24714), (74, 24717), (85, 24759), (86, 24765), (133, 24993),

Gene: Thor_28 Start: 23061, Stop: 23507, Start Num: 49

Candidate Starts for Thor_28:

(Start: 49 @23061 has 762 MA's), (73, 23175), (74, 23178), (85, 23220), (86, 23226), (133, 23454),

Gene: Tiffany_30 Start: 22092, Stop: 22535, Start Num: 49

Candidate Starts for Tiffany_30:

(Start: 49 @22092 has 762 MA's), (65, 22161), (70, 22188), (87, 22260), (105, 22380), (112, 22410), (125, 22458), (142, 22527),

Gene: Tiger_25 Start: 21368, Stop: 21832, Start Num: 49

Candidate Starts for Tiger_25:

(Start: 49 @21368 has 762 MA's), (95, 21584), (113, 21692), (116, 21704), (127, 21746), (136, 21767), (141, 21803),

Gene: Timothy_29 Start: 22627, Stop: 23070, Start Num: 50

Candidate Starts for Timothy_29:

(Start: 50 @22627 has 23 MA's), (66, 22702), (103, 22894), (105, 22915), (125, 22993), (141, 23059),

Gene: Timshel_29 Start: 24668, Stop: 25138, Start Num: 49

Candidate Starts for Timshel_29:

(Start: 49 @24668 has 762 MA's), (Start: 54 @24677 has 5 MA's), (59, 24710), (66, 24758), (87, 24851), (138, 25094),

Gene: TinaFeyge_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for TinaFeyge_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: TinyTimmy_29 Start: 22670, Stop: 23113, Start Num: 50

Candidate Starts for TinyTimmy_29:

(Start: 21 @22607 has 1 MA's), (Start: 50 @22670 has 23 MA's), (66, 22745), (103, 22937), (105, 22958), (125, 23036), (141, 23102),

Gene: Tinybot_27 Start: 21607, Stop: 22053, Start Num: 49

Candidate Starts for Tinybot_27:

(Start: 49 @21607 has 762 MA's), (65, 21676), (66, 21682), (70, 21703), (76, 21724), (87, 21775), (105, 21895), (112, 21925), (119, 21949), (125, 21973), (126, 21976), (140, 22030),

Gene: TipsytheTRex_28 Start: 21114, Stop: 21557, Start Num: 51

Candidate Starts for TipsytheTRex_28:

(Start: 51 @21114 has 21 MA's), (66, 21189), (79, 21249), (112, 21432), (125, 21480), (140, 21537),

Gene: TiroTheta9_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for TiroTheta9_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Toaka_28 Start: 21715, Stop: 22167, Start Num: 49

Candidate Starts for Toaka_28:

(17, 21607), (22, 21661), (Start: 49 @21715 has 762 MA's), (66, 21796), (105, 22009), (112, 22039), (125, 22087),

Gene: Todacoro_29 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for Todacoro_29:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Tolls_21 Start: 17118, Stop: 17507, Start Num: 52

Candidate Starts for Tolls_21:

(Start: 45 @17109 has 11 MA's), (Start: 52 @17118 has 25 MA's), (63, 17190), (64, 17193), (67, 17208), (71, 17229), (78, 17253), (104, 17373), (111, 17415), (117, 17436), (129, 17478),

Gene: Tomathan_32 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for Tomathan_32:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: ToneTone_30 Start: 21691, Stop: 22143, Start Num: 49

Candidate Starts for ToneTone_30:

(Start: 49 @21691 has 762 MA's), (61, 21748), (66, 21772), (86, 21856), (103, 21964), (112, 22015), (125, 22063), (130, 22078),

Gene: Topanga_28 Start: 21724, Stop: 22170, Start Num: 49

Candidate Starts for Topanga_28:

(Start: 49 @21724 has 762 MA's), (70, 21820), (87, 21892), (112, 22042), (125, 22090),

Gene: Topgun_28 Start: 22814, Stop: 23260, Start Num: 49

Candidate Starts for Topgun_28:

(Start: 49 @22814 has 762 MA's), (73, 22928), (74, 22931), (85, 22973), (86, 22979), (133, 23207),

Gene: Toro_31 Start: 24743, Stop: 25210, Start Num: 49

Candidate Starts for Toro_31:

(Start: 49 @24743 has 762 MA's), (59, 24785), (66, 24833), (70, 24854), (79, 24893), (87, 24926), (88, 24929), (138, 25169),

Gene: Tote_30 Start: 23482, Stop: 23928, Start Num: 49

Candidate Starts for Tote_30:

(Start: 49 @23482 has 762 MA's), (73, 23596), (74, 23599), (85, 23641), (86, 23647), (133, 23875),

Gene: TouchMeNot_20 Start: 19090, Stop: 19509, Start Num: 54

Candidate Starts for TouchMeNot_20:

(Start: 54 @19090 has 5 MA's), (64, 19159), (75, 19213),

Gene: Traft412_30 Start: 23904, Stop: 24350, Start Num: 49

Candidate Starts for Traft412_30:

(Start: 49 @23904 has 762 MA's), (73, 24018), (74, 24021), (85, 24063), (86, 24069), (133, 24297),

Gene: Travvers_32 Start: 21856, Stop: 22299, Start Num: 51

Candidate Starts for Travvers_32:

(Start: 51 @21856 has 21 MA's), (66, 21931), (79, 21991), (103, 22123), (112, 22174), (125, 22222), (140, 22279), (143, 22291),

Gene: Treddle_30 Start: 24194, Stop: 24640, Start Num: 49

Candidate Starts for Treddle_30:

(Start: 49 @24194 has 762 MA's), (73, 24308), (74, 24311), (85, 24353), (86, 24359), (133, 24587),

Gene: Trike_26 Start: 19696, Stop: 20142, Start Num: 49

Candidate Starts for Trike_26:

(Start: 49 @19696 has 762 MA's), (65, 19765), (70, 19792), (87, 19864), (112, 20014), (125, 20062),

Gene: Tripl3t_29 Start: 23813, Stop: 24259, Start Num: 49

Candidate Starts for Tripl3t_29:

(Start: 49 @23813 has 762 MA's), (73, 23927), (74, 23930), (85, 23972), (86, 23978), (133, 24206),

Gene: Trixie_32 Start: 23642, Stop: 24088, Start Num: 49

Candidate Starts for Trixie_32:

(29, 23618), (Start: 49 @23642 has 762 MA's), (66, 23717), (67, 23720), (75, 23756), (79, 23777), (103, 23909), (105, 23930), (112, 23960), (119, 23984), (125, 24008), (135, 24035), (140, 24065),

Gene: Troje_19 Start: 17070, Stop: 17468, Start Num: 45

Candidate Starts for Troje_19:

(Start: 45 @17070 has 11 MA's), (Start: 52 @17079 has 25 MA's), (63, 17151), (64, 17154), (67, 17169), (71, 17190), (75, 17205), (77, 17211), (83, 17235), (104, 17334), (111, 17376), (117, 17397), (129, 17439),

Gene: Trooper_29 Start: 21828, Stop: 22274, Start Num: 49

Candidate Starts for Trooper_29:

(Start: 49 @21828 has 762 MA's), (66, 21903), (79, 21963), (103, 22095), (105, 22116), (125, 22194), (135, 22221),

Gene: Trouble_29 Start: 23760, Stop: 24206, Start Num: 49

Candidate Starts for Trouble_29:

(Start: 49 @23760 has 762 MA's), (57, 23772), (73, 23874), (74, 23877), (85, 23919), (86, 23925), (133, 24153),

Gene: TroyPia_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for TroyPia_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (140, 22050),

Gene: Tubs_31 Start: 23557, Stop: 24006, Start Num: 49

Candidate Starts for Tubs_31:

(Start: 49 @23557 has 762 MA's), (66, 23638), (105, 23851), (112, 23881), (125, 23929), (140, 23986),

Gene: Tucker_32 Start: 21777, Stop: 22229, Start Num: 49

Candidate Starts for Tucker_32:

(Start: 49 @21777 has 762 MA's), (61, 21834), (66, 21858), (86, 21942), (103, 22050), (112, 22101), (125, 22149), (130, 22164),

Gene: Turbido_31 Start: 22484, Stop: 22930, Start Num: 49

Candidate Starts for Turbido_31:

(1, 22172), (5, 22262), (Start: 24 @22445 has 1 MA's), (Start: 49 @22484 has 762 MA's), (66, 22559), (79, 22619), (103, 22751), (125, 22850), (135, 22877),

Gene: Turj99_27 Start: 22700, Stop: 23146, Start Num: 49

Candidate Starts for Turj99_27:

(Start: 49 @22700 has 762 MA's), (57, 22712), (73, 22814), (74, 22817), (85, 22859), (86, 22865), (133, 23093),

Gene: Twister_28 Start: 21620, Stop: 22066, Start Num: 49

Candidate Starts for Twister_28:

(Start: 49 @21620 has 762 MA's), (65, 21689), (70, 21716), (87, 21788), (112, 21938), (125, 21986),

Gene: TwoPeat_29 Start: 23281, Stop: 23727, Start Num: 49

Candidate Starts for TwoPeat_29:

(Start: 49 @23281 has 762 MA's), (73, 23395), (74, 23398), (85, 23440), (86, 23446), (133, 23674),

Gene: TygerBlood_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for TygerBlood_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (140, 22050),

Gene: Typhonomachy_20 Start: 17442, Stop: 17831, Start Num: 52

Candidate Starts for Typhonomachy_20:

(Start: 52 @17442 has 25 MA's), (63, 17514), (64, 17517), (67, 17532), (71, 17553), (75, 17568), (79, 17589), (91, 17631), (104, 17697), (109, 17733), (111, 17739), (117, 17760), (129, 17802),

Gene: U2_28 Start: 23079, Stop: 23525, Start Num: 49

Candidate Starts for U2_28:

(Start: 49 @23079 has 762 MA's), (73, 23193), (74, 23196), (85, 23238), (86, 23244), (133, 23472),

Gene: Ugenie5_28 Start: 23590, Stop: 24039, Start Num: 49

Candidate Starts for Ugenie5_28:

(Start: 49 @23590 has 762 MA's), (66, 23671), (105, 23884), (112, 23914), (125, 23962), (140, 24019),

Gene: UhSalsa_24 Start: 17988, Stop: 18428, Start Num: 49

Candidate Starts for UhSalsa_24:

(11, 17769), (12, 17790), (30, 17907), (33, 17940), (Start: 49 @17988 has 762 MA's), (59, 18015), (85, 18141), (87, 18156), (93, 18183), (107, 18279), (116, 18318),

Gene: Ulysses_27 Start: 21348, Stop: 21794, Start Num: 49

Candidate Starts for Ulysses_27:

(Start: 49 @21348 has 762 MA's), (65, 21417), (66, 21423), (70, 21444), (76, 21465), (87, 21516), (105, 21636), (112, 21666), (119, 21690), (125, 21714), (126, 21717), (140, 21771),

Gene: UnionJack_25 Start: 20497, Stop: 20961, Start Num: 49

Candidate Starts for UnionJack_25:

(Start: 49 @20497 has 762 MA's), (127, 20875), (128, 20878), (136, 20896), (140, 20923), (141, 20932),

Gene: Updawg_31 Start: 22445, Stop: 22891, Start Num: 49

Candidate Starts for Updawg_31:

(3, 22214), (23, 22400), (Start: 24 @22406 has 1 MA's), (Start: 49 @22445 has 762 MA's), (66, 22520), (75, 22559), (103, 22712), (125, 22811), (135, 22838), (140, 22868),

Gene: VA6_29 Start: 22012, Stop: 22455, Start Num: 51

Candidate Starts for VA6_29:

(Start: 51 @22012 has 21 MA's), (66, 22087), (79, 22147), (103, 22279), (112, 22330), (125, 22378),

Gene: VC3_32 Start: 22000, Stop: 22443, Start Num: 51

Candidate Starts for VC3_32:

(Start: 51 @22000 has 21 MA's), (66, 22075), (79, 22135), (103, 22267), (112, 22318), (125, 22366),

Gene: Vanisoa_28 Start: 21416, Stop: 21865, Start Num: 49

Candidate Starts for Vanisoa_28:

(Start: 49 @21416 has 762 MA's), (66, 21494), (103, 21686), (112, 21737), (125, 21785),

Gene: Veracruz_28 Start: 22277, Stop: 22720, Start Num: 49

Candidate Starts for Veracruz_28:

(Start: 49 @22277 has 762 MA's), (65, 22346), (70, 22373), (87, 22445), (105, 22565), (112, 22595), (125, 22643),

Gene: Vine_20 Start: 18125, Stop: 18514, Start Num: 49

Candidate Starts for Vine_20:

(Start: 49 @18125 has 762 MA's), (58, 18146), (64, 18200), (65, 18206), (67, 18215), (71, 18236), (75, 18251), (79, 18272), (108, 18413), (111, 18422), (117, 18443),

Gene: Violet_27 Start: 23486, Stop: 23932, Start Num: 49

Candidate Starts for Violet_27:

(Start: 49 @23486 has 762 MA's), (57, 23498), (73, 23600), (74, 23603), (85, 23645), (86, 23651), (133, 23879),

Gene: Vix_30 Start: 22280, Stop: 22723, Start Num: 49

Candidate Starts for Vix_30:

(Start: 49 @22280 has 762 MA's), (65, 22349), (70, 22376), (87, 22448), (105, 22568), (112, 22598), (125, 22646), (142, 22715),

Gene: VohminGhazi_32 Start: 21764, Stop: 22216, Start Num: 49

Candidate Starts for VohminGhazi_32:

(Start: 49 @21764 has 762 MA's), (61, 21821), (66, 21845), (86, 21929), (103, 22037), (112, 22088), (125, 22136), (130, 22151),

Gene: Volt_56 Start: 30613, Stop: 31011, Start Num: 45

Candidate Starts for Volt_56:

(Start: 45 @30613 has 11 MA's), (56, 30634), (64, 30694), (65, 30700), (69, 30724), (75, 30745), (77, 30751), (79, 30766), (94, 30835), (96, 30856), (100, 30892), (115, 30955), (117, 30964), (118, 30967),

Gene: Waits_31 Start: 20935, Stop: 21378, Start Num: 49

Candidate Starts for Waits_31:

(Start: 49 @20935 has 762 MA's), (58, 20944), (65, 21004), (66, 21010), (81, 21073), (90, 21112), (112, 21253), (125, 21301),

Gene: WalterMcMickey_28 Start: 21620, Stop: 22066, Start Num: 49

Candidate Starts for WalterMcMickey_28:

(Start: 49 @21620 has 762 MA's), (65, 21689), (70, 21716), (87, 21788), (112, 21938), (125, 21986),

Gene: Wander_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Wander_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Watermelon_30 Start: 23822, Stop: 24268, Start Num: 49

Candidate Starts for Watermelon_30:

(Start: 49 @23822 has 762 MA's), (73, 23936), (74, 23939), (85, 23981), (86, 23987), (133, 24215),

Gene: Watson_30 Start: 22190, Stop: 22633, Start Num: 49

Candidate Starts for Watson_30:

(Start: 49 @22190 has 762 MA's), (65, 22259), (70, 22286), (87, 22358), (105, 22478), (112, 22508), (125, 22556), (142, 22625),

Gene: WeiHuaDA_35 Start: 24313, Stop: 24759, Start Num: 49

Candidate Starts for WeiHuaDA_35:

(28, 24289), (Start: 49 @24313 has 762 MA's), (66, 24388), (67, 24391), (75, 24427), (79, 24448), (103, 24580), (105, 24601), (112, 24631), (119, 24655), (125, 24679), (135, 24706), (140, 24736),

Gene: Whabigail7_31 Start: 22472, Stop: 22918, Start Num: 49

Candidate Starts for Whabigail7_31:

(1, 22160), (5, 22250), (Start: 24 @22433 has 1 MA's), (Start: 49 @22472 has 762 MA's), (66, 22547), (79, 22607), (103, 22739), (125, 22838), (135, 22865),

Gene: Wheeler_28 Start: 23254, Stop: 23700, Start Num: 49

Candidate Starts for Wheeler_28:

(Start: 49 @23254 has 762 MA's), (73, 23368), (74, 23371), (85, 23413), (86, 23419), (133, 23647),

Gene: WideWale_31 Start: 22445, Stop: 22891, Start Num: 49

Candidate Starts for WideWale_31:

(3, 22214), (23, 22400), (Start: 24 @22406 has 1 MA's), (Start: 49 @22445 has 762 MA's), (66, 22520), (75, 22559), (103, 22712), (125, 22811), (135, 22838), (140, 22868),

Gene: Wiks_32 Start: 21759, Stop: 22211, Start Num: 49

Candidate Starts for Wiks_32:

(Start: 49 @21759 has 762 MA's), (61, 21816), (66, 21840), (86, 21924), (103, 22032), (112, 22083), (125, 22131), (130, 22146),

Gene: Wilbur_28 Start: 21627, Stop: 22073, Start Num: 49

Candidate Starts for Wilbur_28:

(Start: 49 @21627 has 762 MA's), (65, 21696), (66, 21702), (70, 21723), (76, 21744), (87, 21795), (105, 21915), (112, 21945), (119, 21969), (125, 21993), (126, 21996), (140, 22050),

Gene: Wile_28 Start: 21658, Stop: 22104, Start Num: 49

Candidate Starts for Wile_28:

(Start: 49 @21658 has 762 MA's), (65, 21727), (70, 21754), (75, 21772), (87, 21826), (105, 21946), (112, 21976), (116, 21991), (125, 22024),

Gene: Wilkins_28 Start: 22792, Stop: 23238, Start Num: 49

Candidate Starts for Wilkins_28:

(Start: 49 @22792 has 762 MA's), (73, 22906), (74, 22909), (85, 22951), (86, 22957), (133, 23185),

Gene: Wizard007_28 Start: 21629, Stop: 22075, Start Num: 49

Candidate Starts for Wizard007_28:

(Start: 49 @21629 has 762 MA's), (65, 21698), (66, 21704), (70, 21725), (76, 21746), (87, 21797), (105, 21917), (112, 21947), (119, 21971), (125, 21995), (126, 21998), (140, 22052),

Gene: Wooldri_32 Start: 22109, Stop: 22552, Start Num: 49

Candidate Starts for Wooldri_32:

(Start: 49 @22109 has 762 MA's), (65, 22178), (70, 22205), (87, 22277), (105, 22397), (112, 22427), (125, 22475), (142, 22544),

Gene: WunderPhul_32 Start: 21759, Stop: 22211, Start Num: 49

Candidate Starts for WunderPhul_32:

(Start: 49 @21759 has 762 MA's), (61, 21816), (66, 21840), (86, 21924), (103, 22032), (112, 22083), (125, 22131), (130, 22146),

Gene: Xena_28 Start: 21645, Stop: 22091, Start Num: 49

Candidate Starts for Xena_28:

(Start: 49 @21645 has 762 MA's), (65, 21714), (70, 21741), (75, 21759), (87, 21813), (105, 21933), (112, 21963), (116, 21978), (125, 22011),

Gene: XianYue_29 Start: 21926, Stop: 22372, Start Num: 49

Candidate Starts for XianYue_29:

(Start: 49 @21926 has 762 MA's), (66, 22001), (75, 22040), (79, 22061), (103, 22193), (125, 22292), (135, 22319), (140, 22349),

Gene: Yakult_20 Start: 17008, Stop: 17403, Start Num: 49

Candidate Starts for Yakult_20:

(Start: 49 @17008 has 762 MA's), (58, 17029), (64, 17083), (67, 17098), (71, 17119), (75, 17134), (79, 17155), (91, 17197), (111, 17305), (114, 17314), (117, 17326), (134, 17380),

Gene: Yarn_18 Start: 17108, Stop: 17497, Start Num: 52

Candidate Starts for Yarn_18:

(Start: 45 @17099 has 11 MA's), (Start: 52 @17108 has 25 MA's), (63, 17180), (64, 17183), (67, 17198), (71, 17219), (78, 17243), (104, 17363), (111, 17405), (117, 17426), (129, 17468),

Gene: Yecey3_30 Start: 21649, Stop: 22098, Start Num: 49

Candidate Starts for Yecey3_30:

(Start: 49 @21649 has 762 MA's), (66, 21727), (103, 21919), (105, 21940), (112, 21970), (125, 22018), (135, 22045), (140, 22075),

Gene: YoSam321_28 Start: 21624, Stop: 22070, Start Num: 49

Candidate Starts for YoSam321_28:

(Start: 49 @21624 has 762 MA's), (65, 21693), (66, 21699), (70, 21720), (76, 21741), (87, 21792), (105, 21912), (112, 21942), (119, 21966), (125, 21990), (126, 21993), (140, 22047),

Gene: Yogi_24 Start: 17962, Stop: 18402, Start Num: 49

Candidate Starts for Yogi_24:

(11, 17743), (12, 17764), (30, 17881), (Start: 49 @17962 has 762 MA's), (59, 17989), (85, 18115), (87, 18130), (93, 18157), (107, 18253), (116, 18292),

Gene: Yokurt_32 Start: 21759, Stop: 22211, Start Num: 49

Candidate Starts for Yokurt_32:

(Start: 49 @21759 has 762 MA's), (61, 21816), (66, 21840), (86, 21924), (103, 22032), (112, 22083), (125, 22131), (130, 22146),

Gene: Yoncess_24 Start: 17962, Stop: 18402, Start Num: 49

Candidate Starts for Yoncess_24:

(11, 17743), (12, 17764), (30, 17881), (Start: 49 @17962 has 762 MA's), (59, 17989), (85, 18115), (87, 18130), (93, 18157), (107, 18253), (116, 18292),

Gene: Yoshi_20 Start: 15407, Stop: 15772, Start Num: 55

Candidate Starts for Yoshi_20:

(27, 15299), (37, 15353), (Start: 55 @15407 has 8 MA's), (62, 15467), (64, 15473), (67, 15488), (69, 15503), (71, 15509), (77, 15530), (78, 15533), (104, 15650), (112, 15692), (120, 15725),

Gene: Yummy_20 Start: 16993, Stop: 17382, Start Num: 52

Candidate Starts for Yummy_20:

(Start: 45 @16984 has 11 MA's), (Start: 52 @16993 has 25 MA's), (63, 17065), (64, 17068), (67, 17083), (71, 17104), (75, 17119), (77, 17125), (83, 17149), (111, 17290), (117, 17311), (129, 17353),

Gene: Zaka_32 Start: 21759, Stop: 22211, Start Num: 49

Candidate Starts for Zaka_32:

(Start: 49 @21759 has 762 MA's), (61, 21816), (66, 21840), (86, 21924), (103, 22032), (112, 22083), (125, 22131), (130, 22146),

Gene: Zapner_21 Start: 15932, Stop: 16297, Start Num: 55

Candidate Starts for Zapner_21:

(27, 15824), (37, 15878), (Start: 55 @15932 has 8 MA's), (62, 15992), (64, 15998), (67, 16013), (69, 16028), (71, 16034), (77, 16055), (78, 16058), (104, 16175), (112, 16217), (120, 16250),

Gene: Zareef_23 Start: 18424, Stop: 18810, Start Num: 52

Candidate Starts for Zareef_23:

(Start: 52 @18424 has 25 MA's), (63, 18496), (67, 18514), (71, 18535), (77, 18556), (78, 18559), (83, 18580), (96, 18634), (102, 18673), (106, 18700), (111, 18721), (117, 18742),

Gene: Zeeculate_28 Start: 23693, Stop: 24139, Start Num: 49

Candidate Starts for Zeeculate_28:

(Start: 49 @23693 has 762 MA's), (73, 23807), (74, 23810), (85, 23852), (86, 23858), (133, 24086),

Gene: Zephyr_28 Start: 23055, Stop: 23501, Start Num: 49

Candidate Starts for Zephyr_28:

(Start: 49 @23055 has 762 MA's), (73, 23169), (74, 23172), (85, 23214), (86, 23220), (133, 23448),

Gene: Zetzy_29 Start: 21732, Stop: 22175, Start Num: 49

Candidate Starts for Zetzy_29:

(Start: 49 @21732 has 762 MA's), (65, 21801), (70, 21828), (87, 21900), (105, 22020), (112, 22050), (125, 22098), (142, 22167),

Gene: Zeuska_29 Start: 23489, Stop: 23935, Start Num: 49

Candidate Starts for Zeuska_29:

(Start: 49 @23489 has 762 MA's), (57, 23501), (73, 23603), (74, 23606), (85, 23648), (86, 23654), (133, 23882),

Gene: Ziko_57 Start: 30553, Stop: 30951, Start Num: 45

Candidate Starts for Ziko_57:

(Start: 45 @30553 has 11 MA's), (56, 30574), (64, 30634), (65, 30640), (69, 30664), (75, 30685), (77, 30691), (79, 30706), (94, 30775), (96, 30796), (100, 30832), (115, 30895), (117, 30904), (118, 30907),

Gene: Zimmer_31 Start: 24171, Stop: 24620, Start Num: 49

Candidate Starts for Zimmer_31:

(Start: 49 @24171 has 762 MA's), (66, 24249), (103, 24441), (107, 24468), (112, 24492), (125, 24540), (135, 24567), (140, 24597),

Gene: Zolita_24 Start: 21730, Stop: 22194, Start Num: 49

Candidate Starts for Zolita_24:

(Start: 49 @21730 has 762 MA's), (75, 21847), (101, 21991), (127, 22108), (128, 22111), (140, 22156), (141, 22165),

Gene: Zulu_32 Start: 21758, Stop: 22210, Start Num: 49

Candidate Starts for Zulu_32:

(Start: 49 @21758 has 762 MA's), (61, 21815), (66, 21839), (86, 21923), (103, 22031), (112, 22082), (125, 22130), (130, 22145),