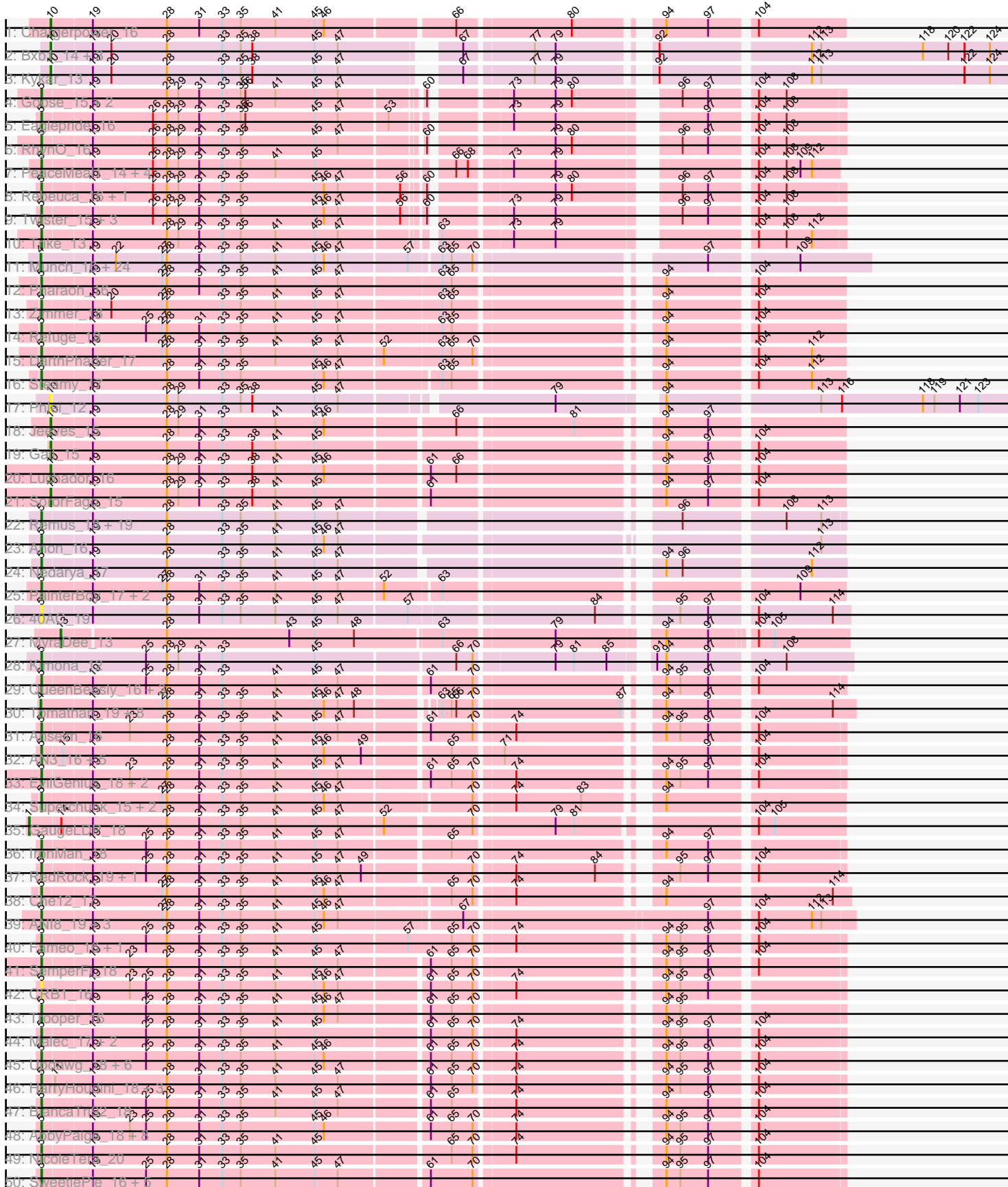
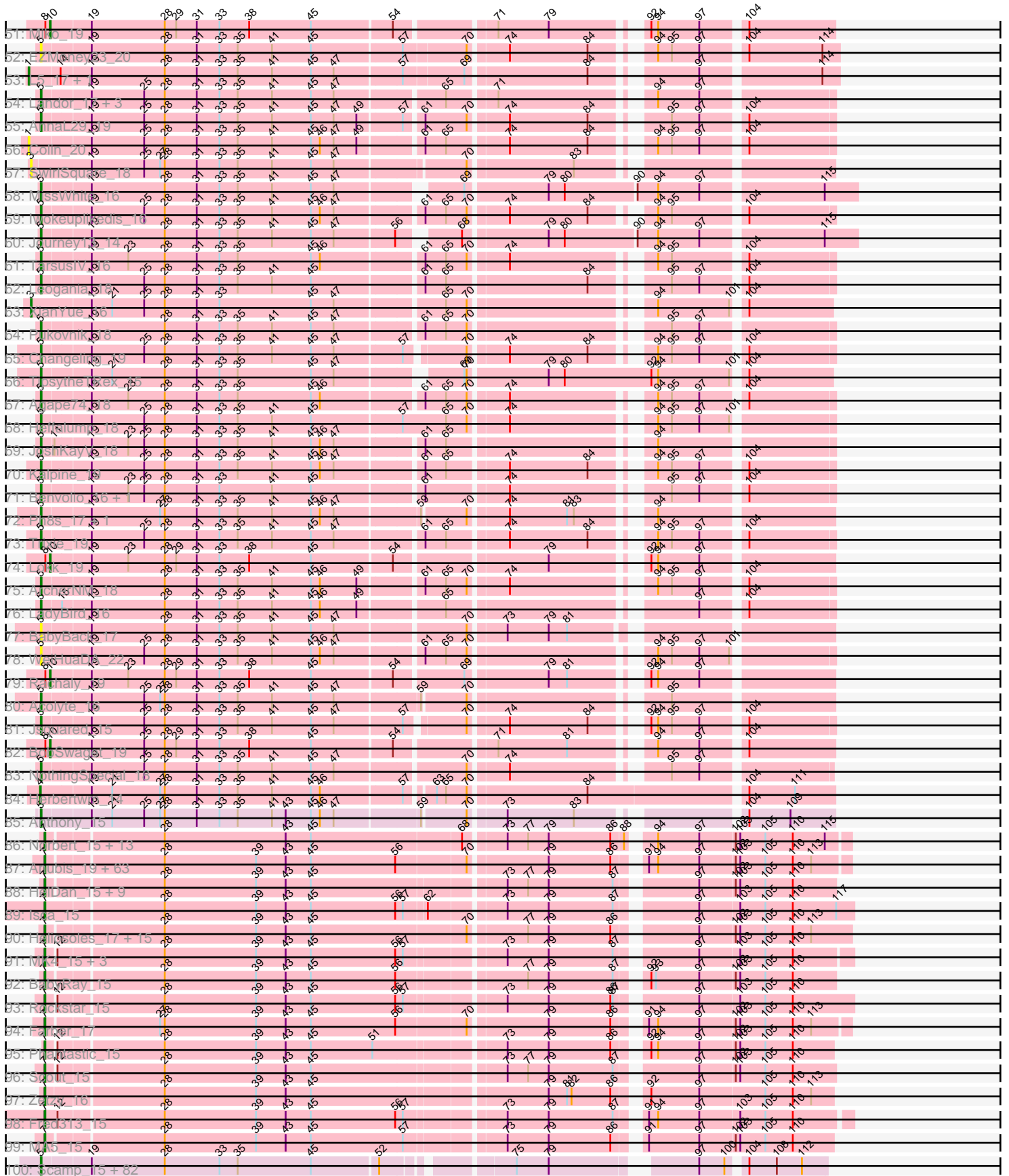


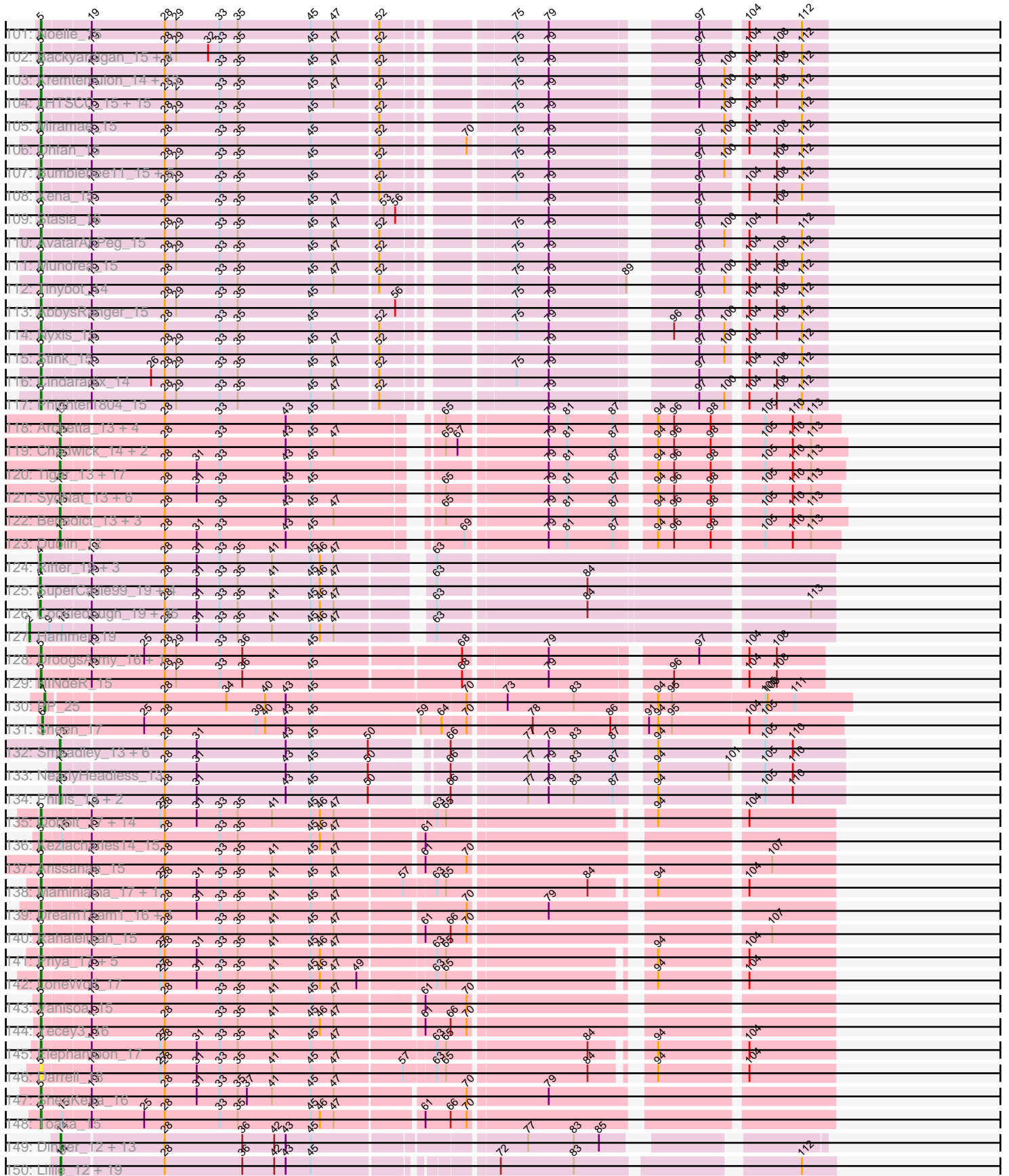
Pham 163239



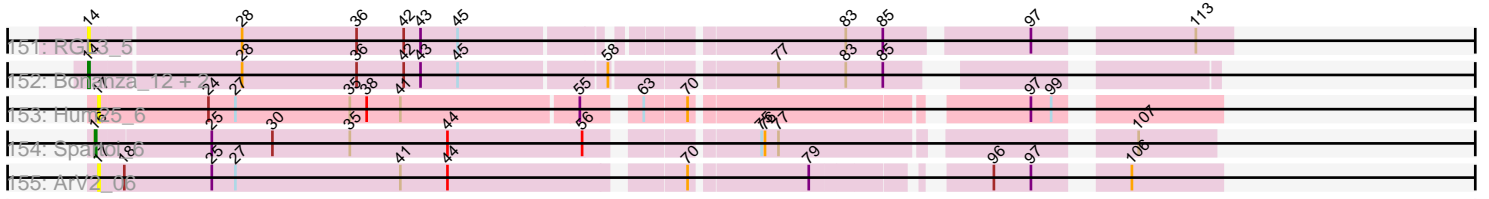
Pham 163239



Pham 163239



Pham 163239



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 163239 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163239 has 628 members, 41 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_16
- Track 2 : Bxb1_14, Kugel_16, Target_17, BillKnuckles_16
- Track 3 : Kykar_13
- Track 4 : Goose_15, OKCentral2016_15, Chupacabra_15
- Track 5 : Eaglepride_16
- Track 6 : RhynO_16
- Track 7 : PeaceMeal1_14, Severus_14, Drake94_14, KittenMittens_14, Poompha_14
- Track 8 : Rebeuca_16, Kristoff_16
- Track 9 : Twister_15, Topanga_15, WalterMcMickey_15, Edison31_14
- Track 10 : Trike_13
- Track 11 : Munch_16, Ebony_16, Salz_16, Lucivia_16, MaCh_16, Mulciber_16, Jabith_16, TinyTimmy_15, Et2Brutus_15, Orange_16, Flaverint_16, Fibonacci_16, Insomnia_15, Bowtie_16, Sham4_16, Bachome_16, Gilberta_16, Petersenfast_15, Mabel_16, Timothy_16, Joselito_16, Aneem_16, Bud_16, Hutc2_16, Snape_16
- Track 12 : Pharaoh_16
- Track 13 : Zimmer_18
- Track 14 : Refuge_19
- Track 15 : DARTHPhader_17
- Track 16 : Steamy_17
- Track 17 : Phlei_12
- Track 18 : Jeeves_15
- Track 19 : Gail_15
- Track 20 : Luchador_16
- Track 21 : SororFago_15
- Track 22 : Remus_18, MinecraftSteve_19, Switzerland_18, Battleship_19, Looper_19, LastResort_18, JSwag_18, ShayRa_19, Rosalind_18, Soups_18, KatherineG_18, DekHockey33_18, Oofda_19, Nebulosus_18, ReMo_18, Epsocamisio_18, Anaysia_18, Waits_18, Strosahl_18, Boohoo_18
- Track 23 : Anon_16
- Track 24 : Nedarya_17
- Track 25 : PainterBoy_17, Lucyedi_17, EagleEye_18
- Track 26 : 40AC_19
- Track 27 : MyraDee_13
- Track 28 : Kimona_12
- Track 29 : QueenBeesly_16, Georgie2_17, Power_16, FiringLine_16

- Track 30 : Tomathan_19, D29_17, StarStuff_19, DBQu4n_19, Duplo_19, Kerberos_19, D32_19, Pomar16_19, Naji_19
- Track 31 : Anselm_16
- Track 32 : AN3_16, VA6_16, 20ES_16, Deloris_17, BengiVuitton_17, First_0016
- Track 33 : EvilGenius_18, KingCyrus_18, ChipMunk_18
- Track 34 : Superchunk_15, Caraxes_15, Odin_15
- Track 35 : GaugeLDP_18
- Track 36 : IronMan_18
- Track 37 : RedRock_19, Loser_19
- Track 38 : Che12_17
- Track 39 : ANI8_19, AN9_19, C3_14, VC3_19
- Track 40 : Fameo_16, QueenB2_16
- Track 41 : SemperFi_18
- Track 42 : CRB1_16
- Track 43 : Trooper_16
- Track 44 : Malec_17, Serenity_15, Larenn_17
- Track 45 : Updawg_18, NaSiaTalie_16, Flare16_16, Equemioh13_18, MiculUcigas_16, WideWale_18, Centaur_18
- Track 46 : HarryHoudini_18, Drake55_18, Baehexic_17, Piro94_17
- Track 47 : BiancaTri92_18
- Track 48 : AbbyPaige_18, Whabigail7_18, Dignity_18, Buggy_18, Smeagan_18, Leviathan_18, LilTurb_18, Jerm_18, Turbido_18
- Track 49 : NicoleTera_20
- Track 50 : SweetiePie_16, DudeLittle_16, Retro23_16, Dalmatian_16, SnapTap_16, Crucio_16
- Track 51 : Miko_19
- Track 52 : EZMoney23_20
- Track 53 : L5_17, Koduck_16
- Track 54 : Landor_17, Bactobuster_17, Jaan_19, Phaded_19
- Track 55 : AnnaL29_19
- Track 56 : Colin_20
- Track 57 : SwirlSquare_18
- Track 58 : MissWhite_16
- Track 59 : Iwokeuplikedis_16
- Track 60 : Journey13_14
- Track 61 : TarsusIV_16
- Track 62 : Leogania_18
- Track 63 : XianYue_16
- Track 64 : Pukovnik_18
- Track 65 : Changeling_19
- Track 66 : TipsytheTRex_15
- Track 67 : Agape74_18
- Track 68 : Heffalump_18
- Track 69 : JoshKayV_18
- Track 70 : Kalpine_19
- Track 71 : Benvolio_16, Echild_16
- Track 72 : Ph8s_17, Adzzy_17
- Track 73 : Trixie_19
- Track 74 : Lokk_19
- Track 75 : ArcherNM_18
- Track 76 : LadyBird_16
- Track 77 : BabyBack_17
- Track 78 : WeiHuaDA_22

- Track 79 : Rachaly_19
- Track 80 : Acolyte_16
- Track 81 : Jsquared_15
- Track 82 : BobSwaget_19
- Track 83 : NothingSpecial_18
- Track 84 : Herbertwm_14
- Track 85 : Anthony_15
- Track 86 : Norbert_15, Todacoro_16, Popcicle_16, Veracruz_15, Noella_16, ResDef_16, Pocahontas_16, Panamaxus_16, Caviar_16, Hookmount_16, Texage_15, Margo_16, Lambert1_16, QuinnKiro_15
- Track 87 : Anubis_19, Stagni_17, Rummer_17, LugYA_19, JenCasNa_17, LarryKay_17, Louie6_17, Wooldri_19, Malinsilva_19, Spike509_17, Hercules11_17, P28Green_17, Daishi_16, SoYo_17, MadMarie_17, StepMih_17, Grub_17, Cullens_17, KADY_18, MoneyMay_17, Marie_17, HashRod_18, Sabinator_17, Bxz2_17, Misomonster_19, PGHhamlin_19, Ollie_17, PotatoSplit_18, Microwolf_17, Beauxregard13_17, AgronaGT15_17, Vix_17, Dieselweasel_17, MuchMore_19, BuzzBuzz_16, Colbster_17, DaHudson_17, Methuselah_17, Grum1_17, Taurus_17, LBerry_17, JHC117_17, SoilDragon_17, GtownJaz_17, Soshari_19, Grif_17, Tiffany_17, Penny1_17, Mainiac_17, Pembroke_17, Phoxy_17, Aglet_17, MarQuardt_17, Watson_17, AugsMagnumOpus_19, Fernando_17, Jobu08_17, Sabia_17, Lilith_17, BreSam8_17, GingkoMaracino_17, EpicPhail_17, Phoebe_17, Snickers_17
- Track 88 : HelDan_15, Giroux_15, Bugatti_15, Idleandcovert_15, Puppy_16, Pistachio_16, Heathen_15, TNguyen7_15, BlueBird_16, SaturnRing_15
- Track 89 : Isca_15
- Track 90 : Heliosoles_17, ACFishhook_17, HaveUMetTed_18, OlanP_17, Gemma_17, Reba_18, Manu_18, Pawn_18, Kalb97_18, Kalnoky_18, PhishRPhriends_16, Groupthink_18, Phranny_18, PurpleHaze_17, JeppNRM_18, Marius_18
- Track 91 : MK4_15, B1_13, JF4_15, JF2_15
- Track 92 : BabyRay_15
- Track 93 : Rockstar_15
- Track 94 : Farber_17
- Track 95 : Phantastic_15
- Track 96 : Scout_15
- Track 97 : Zetzy_16
- Track 98 : Fred313_15
- Track 99 : MA5_15
- Track 100 : Scamp_15, Baby16_15, BubbleTrouble_15, Spino_15, Roosevelt_15, Eurydice_15, Romney_15, Taquarus_15, Kye_15, Pipcraft_15, Maverick_15, Cocoaberry_15, NorthStar_15, Eagle_14, Commander_15, Avle17_15, BellusTerra_15, Chaph_15, Connomayer_15, JetBlade_15, KFPoly_15, Medusa_15, Phacado_15, Funston_15, Wizard007_15, Alberto7_16, LeoAvram_15, Florean_15, MeeZee_15, Polymorphads_15, Dhanush_15, Shygu2_15, NotAPhaseMom_15, Gadost_15, HamSlice_14, Blackmoor_15, Morrow_15, Bruiser_15, Arturo_14, Burger_14, Jaykayelowell_15, Clarenza_15, Albee_15, Houdini22_15, Flux_15, YoSam321_15, Palestino_15, Anyyong_15, Sparxx_15, TiroTheta9_15, Citius_15, Melvin_15, Koreni_14, Ruin_15, LappelDuVide_14, TygerBlood_15, PeterPeter_15, Wilbur_15, Bombshell_15, Eapen_15, Felipe_15, Sabertooth_15, Abdiel_15, Bartimeaus_15, Eris_15, Broseidon_15, Druantia_15, JoongJeon_15, Maxo_15, Holli_15, Relief_15, Kingmustik0402_15, CentreCat_15, Kamy_15, Millski_15, TinaFeyge_15, Nemo27_15, Lorenzo_15, Nebs_15, Wander_15, TroyPia_15, Caelakin_15, Skipitt_15

- Track 101 : Noelle_15
- Track 102 : Backyardigan_15, Badger_15, Datway_15, Wile_15, Achebe_15
- Track 103 : Kremtemulon_14, Ulysses_14, Shaka_15, LittleGuy_15, LittleB_15, Eros_15, Thanksgivukkah_15, Pumbaa_15, LochMonster_15, Mazhar510_15, Camperdownii_14, Cintron_15, Kratak_15, DirtyDunning_15
- Track 104 : LHTSCC_15, ChampagnePapi_15, BangNhom_14, Iceman_15, Peaches_15, Deano_15, ICleared_15, Obama12_15, Cerulean_15, Lemur_15, Lunsford_16, Happiness_15, Iracema64_15, Phontbonne_15, OKaNui_15, SheldonCooper_15
- Track 105 : Miramae_15
- Track 106 : Ohfah_15
- Track 107 : Bumblebee11_15, Cici_15, Morpher26_15, PetiteSangsue_15, Perplexer_15, Katalie136_15
- Track 108 : Xena_15
- Track 109 : Stasia_16
- Track 110 : AvatarAhPeg_15
- Track 111 : Mundrea_15
- Track 112 : Tinybot_14
- Track 113 : AbbysRanger_15
- Track 114 : Nyxis_15
- Track 115 : Stink_15
- Track 116 : Cindaradix_14
- Track 117 : Phighter1804_15
- Track 118 : Archetta_13, PickleBack_13, Lev2_13, UnionJack_13, EITiger69_13
- Track 119 : Chadwick_14, PetterN_14, Naca_13
- Track 120 : Tiger_13, Jovo_13, Cuco_13, Tarynearal_12, Midas2_13, HuhtaEnerson15_13, Theia_12, Swirley_13, MarysWell_12, ForGetIt_13, Coog_13, George_12, Discoknowium_13, LittleCherry_13, Milcery_13, Bonamassa_13, Micasa_12, Conspiracy_13
- Track 121 : SydNat_13, Phlorence_13, Aragog_13, Bluefalcon_12, Ghoulboy_13, AgentM_13, Zolita_12
- Track 122 : Benedict_13, Jabiru_13, Scorpia_14, Airmid_13
- Track 123 : Dublin_12
- Track 124 : Rifter_19, Gladiator_19, Blue7_19, Gruunaga_19
- Track 125 : SuperCallie99_19, Koko_19, Tucker_19, Blinn1_19, Jeffabunny_19
- Track 126 : Cookiedough_19, Isiphiwo_19, Wiks_19, JewelBug_19, CloudWang3_19, VohminGhazi_19, Jordennis_19, ToneTone_18, SmellyB_19, Neeharika16_19, Newrala_19, Dorothea_18, Roksolana_19, Chartreuse_19, DaVinci_19, Helmet_20, Candra_19, Kipper29_19, Artemis2UCLA_19, Priamo_19, WunderPhul_19, Yokurt_19, EricB_19, Kazan_19, Pmask_19, Indra_19, Hexamo_19, Zulu_19, Lilbunny_18, BABullseye_19, Hoot_19, SuperAwesome_19, GreedyLawyer_19, Zaka_19, McFly_19, Garak_20
- Track 127 : Hammer_19
- Track 128 : DroogsArmy_16, Timshel_16
- Track 129 : HINdeR_15
- Track 130 : PP_25
- Track 131 : Sheen_17
- Track 132 : Smeadley_13, Danforth_12, Expelliarmus_12, Groundhog_12, Roary_13, Dixon_13, Astro_13
- Track 133 : NearlyHeadless_13
- Track 134 : Phillis_13, Saintus_13, Stephig9_13
- Track 135 : Qobbit_17, Phaeder_17, ExplosioNervosa_17, Aliter_17, Fayely_17, Phonnegut_17, Scherzo_17, Pioneer_17, Tubs_17, Myxus_17, HortumSL17_17,

- Conquerage_17, Beemo_17, Ugenie5_14, PackMan_17
- Track 136 : Keziacharles14_15
 - Track 137 : Arissanae_15
 - Track 138 : Maminiaina_17, BogosyJay_17
 - Track 139 : DreamTeam1_16, Charm_16
 - Track 140 : Rahalelujah_15
 - Track 141 : Priya_17, Eidsmoe_17, EmyBug_15, Alma_17, Spouty_16, Catalina_17
 - Track 142 : LoneWolf_17
 - Track 143 : Vanisoa_15
 - Track 144 : Yecey3_16
 - Track 145 : Elephantoon_17
 - Track 146 : Darrell_18
 - Track 147 : SheaKeira_16
 - Track 148 : Toaka_15
 - Track 149 : Dinger_12, Rasputin_12, Takoda_12, AngryOrchard_11, Bryce_12, AppleCloud_10, Harlequin_12, Krishelle_12, BobbyDazzler_12, Yoncess_12, Partridge_12, PhailMary_11, Jester_12, Hiro_12
 - Track 150 : Lillie_12, Belenaria_12, RER2_5, Shuman_12, Bradshaw_12, Naiad_12, Gollum_12, Rhodalysa_12, Swann_12, UhSalsa_12, Erik_12, Nancinator_12, CosmicSans_12, TWAMP_12, Espica_12, Alatin_12, RexFury_12, StCroix_12, Natosaleda_12, Phrankenstein_12
 - Track 151 : RGL3_5
 - Track 152 : Bonanza_12, Alpacados_11, Yogi_12
 - Track 153 : Hum25_6
 - Track 154 : Spartoi_6
 - Track 155 : ArV2_06

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

The start number called the most often in the published annotations is 5, it was called in 300 of the 587 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_16, 40AC_19, AN3_16, AN9_19, ANI8_19, AbbyPaige_18, AbbysRanger_15, Abdiel_15, Achebe_15, Acolyte_16, Adzzy_17, Agape74_18, Albee_15, Alberto7_16, Aliter_17, Alma_17, Anaysia_18, AnnaL29_19, Annyong_15, Anon_16, Anselm_16, Anthony_15, ArcherNM_18, Arissanae_15, Arturo_14, AvatarAhPeg_15, Avle17_15, Baby16_15, BabyBack_17, Backyardigan_15, Bactobuster_17, Badger_15, Baehexic_17, BangNhom_14, Bartimeaus_15, Battleship_19, Beemo_17, BellusTerra_15, BengiVuitton_17, Benvolio_16, BiancaTri92_18, Blackmoor_15, BogosyJay_17, Bombshell_15, Boohoo_18, Broseidon_15, Bruiser_15, BubbleTrouble_15, Buggy_18, Bumblebee11_15, Burger_14, C3_14, CRB1_16, Caelakin_15, Camperdownii_14, Caraxes_15, Catalina_17, Centaur_18, CentreCat_15, Cerulean_15, ChampagnePapi_15, Changeling_19, Chaph_15, Charm_16, Che12_17, ChipMunk_18, Chupacabra_15, Cici_15, Cindaradix_14, Cintron_15, Citius_15, Clarenza_15, Cocoaberry_15, Commander_15, Connomayer_15, Conquerage_17, Crucio_16, Dalmatian_16, Darrell_18, DarthPhader_17, Datway_15, Deano_15, DekHockey33_18, Deloris_17, Dhanush_15, Dignity_18, DirtyDunning_15, Drake55_18, Drake94_14, DreamTeam1_16, DroogsArmy_16, Druantia_15, DudeLittle_16, EZMoney23_20,

EagleEye_18, Eagle_14, Eaglepride_16, Eapen_15, Echild_16, Edison31_14, Eidsmoe_17, Elephantoon_17, EmyBug_15, Epsocamisio_18, Equemioh13_18, Eris_15, Eros_15, Eurydice_15, EvilGenius_18, ExplosioNervosa_17, Fameo_16, Fayely_17, FiringLine_16, First_0016, Flare16_16, Florean_15, Flux_15, Funston_15, Gadost_15, Georgie2_17, Goose_15, HINdeR_15, HamSlice_14, Happiness_15, HarryHoudini_18, Heffalump_18, Holli_15, HortumSL17_17, Houdini22_15, ICleared_15, Iceman_15, Iracema64_15, IronMan_18, Iwokeuplikedis_16, JSwag_18, Jaan_19, Jaykayelowell_15, Jerm_18, JetBlade_15, JoongJeon_15, JoshKayV_18, Journey13_14, Jsquared_15, KFPoly_15, Kalpine_19, Kamy_15, Katalie136_15, KatherineG_18, Keziacharles14_15, Kimona_12, KingCyrus_18, Kingmustik0402_15, KittenMittens_14, Koreni_14, Kratak_15, Kremtemulon_14, Kristoff_16, Kyee_15, LHTSCC_15, LadyBird_16, Landor_17, LappelDuVide_14, Larenn_17, LastResort_18, Lemur_15, LeoAvram_15, Leogania_18, Leviathan_18, LilTurb_18, LittleB_15, LittleGuy_15, LochMonster_15, LoneWolf_17, Looper_19, Lorenzo_15, Loser_19, Lucyedi_17, Lunsford_16, Malec_17, Maminiana_17, Maverick_15, Maxo_15, Mazhar510_15, Medusa_15, MeeZee_15, Melvin_15, MiculUcigas_16, Millski_15, MinecraftSteve_19, Miramae_15, MissWhite_16, Morpher26_15, Morrow_15, Mundrea_15, Myxus_17, NaSiaTalie_16, Nebs_15, Nebulosus_18, Nedarya_17, Nemo27_15, NicoleTera_20, Noelle_15, NorthStar_15, NotAPhaseMom_15, NothingSpecial_18, Nyxis_15, OKCentral2016_15, OKaNui_15, Obama12_15, Odin_15, Ohfah_15, Oofda_19, PackMan_17, PainterBoy_17, Palestino_15, PeaceMeal1_14, Peaches_15, Perplexer_15, PeterPeter_15, PetiteSangsue_15, Ph8s_17, Phacado_15, Phaded_19, Phaeder_17, Pharaoh_16, Felipe_15, Phighter1804_15, Phonnegut_17, Phontbonne_15, Pioneer_17, Pipcraft_15, Piro94_17, Polymorphads_15, Poompha_14, Power_16, Priya_17, Pukovnik_18, Pumbaa_15, Qobbit_17, QueenB2_16, QueenBeesly_16, Rahalelujah_15, ReMo_18, Rebeuca_16, RedRock_19, Refuge_19, Relief_15, Remus_18, Retro23_16, RhynO_16, Romney_15, Roosevelt_15, Rosalind_18, Ruin_15, Sabertooth_15, Scamp_15, Scherzo_17, SemperFi_18, Serenity_15, Severus_14, Shaka_15, ShayRa_19, SheaKeira_16, SheldonCooper_15, Shygu2_15, Skipitt_15, Smeagan_18, SnapTap_16, Soups_18, Sparxx_15, Spino_15, Spouty_16, Stasia_16, Steamy_17, Stink_15, Strosahl_18, Superchunk_15, SweetiePie_16, Switzerland_18, Taquarus_15, TarsusIV_16, Thanksgivukkah_15, Timshel_16, TinaFeyge_15, Tinybot_14, TopsytheTRex_15, TiroTheta9_15, Toaka_15, Topanga_15, Trike_13, Trixie_19, Trooper_16, TroyPia_15, Tubs_17, Turbido_18, Twister_15, TygerBlood_15, Ugenie5_14, Ulysses_14, Updawg_18, VA6_16, VC3_19, Vanisoa_15, Waits_18, WalterMcMickey_15, Wander_15, WeiHuaDA_22, Whabigail7_18, WideWale_18, Wilbur_15, Wile_15, Wizard007_15, Xena_15, Yecey3_16, YoSam321_15, Zimmer_18,

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

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

- ACFishhook_17, AgentM_13, Aglet_17, AgronaGT15_17, Airmid_13, Alatin_12, Alpacados_11, Aneem_16, AngryOrchard_11, Anubis_19, AppleCloud_10, ArV2_06, Aragog_13, Archetta_13, Artemis2UCLA_19, Astro_13, AugsMagnumOpus_19, B1_13, BABullseye_19, BabyRay_15, Bachome_16, Beauxregard13_17, Belenaria_12, Benedict_13, BillKnuckles_16, Blinn1_19, Blue7_19, BlueBird_16, Bluefalcon_12, BobSwaget_19, BobbyDazzler_12, Bonamassa_13, Bonanza_12, Bowtie_16, Bradshaw_12, BreSam8_17, Bryce_12, Bud_16, Bugatti_15, BuzzBuzz_16, Bxb1_14, Bxz2_17, Candra_19, Caviar_16, Chadwick_14,

Chargerpower_16, Chartreuse_19, CloudWang3_19, Colbster_17, Colin_20, Conspiracy_13, Coog_13, Cookiedough_19, CosmicSans_12, Cuco_13, Cullens_17, D29_17, D32_19, DBQu4n_19, DaHudson_17, DaVinci_19, Daishi_16, Danforth_12, Dieselweasel_17, Dinger_12, Discoknowium_13, Dixon_13, Dorothea_18, Dublin_12, Duplo_19, Ebony_16, ElTiger69_13, EpicPhail_17, EricB_19, Erik_12, Espica_12, Et2Brutus_15, Expelliarmus_12, Farber_17, Fernando_17, Fibonacci_16, Flaverint_16, ForGetIt_13, Fred313_15, Gail_15, Garak_20, GaugeLDP_18, Gemma_17, George_12, Ghoulyboy_13, Gilberta_16, GingkoMaracino_17, Giroux_15, Gladiator_19, Gollum_12, GreedyLawyer_19, Grif_17, Groundhog_12, Groupthink_18, Grub_17, Grum1_17, Gruunaga_19, GtownJaz_17, Hammer_19, Harlequin_12, HashRod_18, HaveUMetTed_18, Heathen_15, HelDan_15, Heliosoles_17, Helmet_20, Herbertwm_14, Hercules11_17, Hexamo_19, Hiro_12, Hookmount_16, Hoot_19, HuhtaEnerson15_13, Hum25_6, Hutc2_16, Idleandcovert_15, Indra_19, Insomnia_15, Isca_15, Isiphiwo_19, JF2_15, JF4_15, JHC117_17, Jabiru_13, Jabith_16, Jeeves_15, Jeffabunny_19, JenCasNa_17, JeppNRM_18, Jester_12, JewelBug_19, Jobu08_17, Jordennis_19, Joselito_16, Jovo_13, KADY_18, Kalb97_18, Kainoky_18, Kazan_19, Kerberos_19, Kipper29_19, Koduck_16, Koko_19, Krishelle_12, Kugel_16, Kykar_13, L5_17, LBerry_17, Lambert1_16, LarryKay_17, Lev2_13, Lilbunny_18, Lilith_17, Lillie_12, LittleCherry_13, Lokk_19, Louie6_17, Luchador_16, Lucivia_16, LugYA_19, MA5_15, MK4_15, MaCh_16, Mabel_16, MadMarie_17, Mainiac_17, Malinsilva_19, Manu_18, MarQuardt_17, Margo_16, Marie_17, Marius_18, MarysWell_12, McFly_19, Methuselah_17, Micasa_12, Microwolf_17, Midas2_13, Miko_19, Milcery_13, Misomonster_19, MoneyMay_17, MuchMore_19, Mulciber_16, Munch_16, MyraDee_13, Naca_13, Naiad_12, Naji_19, Nancinator_12, Natosaleda_12, NearlyHeadless_13, Neeharika16_19, Newrala_19, Noella_16, Norbert_15, OlanP_17, Ollie_17, Orange_16, P28Green_17, PGHhamlin_19, PP_25, Panamaxus_16, Partridge_12, Pawn_18, Pembroke_17, Penny1_17, Petersenfast_15, PetterN_14, PhailMary_11, Phantastic_15, Phillis_13, PhishRPhriends_16, Phlei_12, Phlorence_13, Phoebe_17, Phoxy_17, Phrankenstein_12, Phranny_18, PickleBack_13, Pistachio_16, Pmask_19, Pocahontas_16, Pomar16_19, Poppicle_16, PotatoSplit_18, Priamo_19, Puppy_16, PurpleHaze_17, QuinnKiro_15, RER2_5, RGL3_5, Rachaly_19, Rasputin_12, Reba_18, ResDef_16, RexFury_12, Rhodalysa_12, Rifter_19, Roary_13, Rockstar_15, Roksolana_19, Rummer_17, Sabia_17, Sabinator_17, Saintus_13, Salz_16, SaturnRing_15, Scorpia_14, Scout_15, Sham4_16, Sheen_17, Shuman_12, Smeadley_13, SmellyB_19, Snape_16, Snickers_17, SoYo_17, SoilDragon_17, SororFago_15, Soshari_19, Spartoi_6, Spike509_17, StCroix_12, Stagni_17, StarStuff_19, StepMih_17, StepHig9_13, SuperAwesome_19, SuperCallie99_19, Swann_12, SwirlSquare_18, Swirley_13, SydNat_13, TNguyen7_15, TWAMP_12, Takoda_12, Target_17, Tarynearal_12, Taurus_17, Texage_15, Theia_12, Tiffany_17, Tiger_13, Timothy_16, TinyTimmy_15, Todacoro_16, Tomathan_19, ToneTone_18, Tucker_19, UhSalsa_12, UnionJack_13, Veracruz_15, Vix_17, VohminGhazi_19, Watson_17, Wiks_19, Wooldri_19, WunderPhul_19, XianYue_16, Yogi_12, Yokurt_19, Yoncess_12, Zaka_19, Zetty_16, Zolita_12, Zulu_19,

Summary by start number:

Start 1:

- Found in 4 of 628 (0.6%) of genes in pham
- Manual Annotations of this start: 2 of 587
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Colin_20 (A2), GaugeLDP_18 (A2), Koduck_16 (A2), L5_17 (A2),

Start 2:

- Found in 1 of 628 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hammer_19 (A6),

Start 3:

- Found in 2 of 628 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SwirlSquare_18 (A2), XianYue_16 (A2),

Start 4:

- Found in 80 of 628 (12.7%) of genes in pham
- Manual Annotations of this start: 70 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aneem_16 (A11), Artemis2UCLA_19 (A6), BABullseye_19 (A6), Bachome_16 (A11), Blinn1_19 (A6), Blue7_19 (A6), Bowtie_16 (A11), Bud_16 (A11), Candra_19 (A6), Chartreuse_19 (A6), CloudWang3_19 (A6), Cookiedough_19 (A6), D29_17 (A2), D32_19 (A2), DBQu4n_19 (A2), DaVinci_19 (A6), Dorothea_18 (A6), Duplo_19 (A2), Ebony_16 (A11), EricB_19 (A6), Et2Brutus_15 (A11), Fibonacci_16 (A11), Flaverint_16 (A11), Garak_20 (A6), Gilberta_16 (A11), Gladiator_19 (A6), GreedyLawyer_19 (A6), Gruunaga_19 (A6), Helmet_20 (A6), Herbertwm_14 (A2), Hexamo_19 (A6), Hoot_19 (A6), Hutc2_16 (A11), Indra_19 (A6), Insomnia_15 (A11), Isiphiwo_19 (A6), Jabith_16 (A11), Jeffabunny_19 (A6), JewelBug_19 (A6), Jordennis_19 (A6), Joselito_16 (A11), Kazan_19 (A6), Kerberos_19 (A2), Kipper29_19 (A6), Koko_19 (A6), Lilbunny_18 (A6), Lucivia_16 (A11), MaCh_16 (A11), Mabel_16 (A11), McFly_19 (A6), Mulciber_16 (A11), Munch_16 (A11), Naji_19 (A2), Neeharika16_19 (A6), Newrala_19 (A6), Orange_16 (A11), Petersenfast_15 (A11), Pmask_19 (A6), Pomar16_19 (A2), Priamo_19 (A6), Rifter_19 (A6), Roksolana_19 (A6), Salz_16 (A11), Sham4_16 (A11), SmellyB_19 (A6), Snape_16 (A11), StarStuff_19 (A2), SuperAwesome_19 (A6), SuperCallie99_19 (A6), Timothy_16 (A11), TinyTimmy_15 (A11), Tomathan_19 (A2), ToneTone_18 (A6), Tucker_19 (A6), VohminGhazi_19 (A6), Wiks_19 (A6), WunderPhul_19 (A6), Yokurt_19 (A6), Zaka_19 (A6), Zulu_19 (A6),

Start 5:

- Found in 316 of 628 (50.3%) of genes in pham
- Manual Annotations of this start: 300 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_16 (A2), 40AC_19 (A17), AN3_16 (A2), AN9_19 (A2), ANI8_19 (A2), AbbyPaige_18 (A2), AbbysRanger_15 (A4), Abdiel_15 (A4), Achebe_15 (A4), Acolyte_16 (A2), Adzzy_17 (A2), Agape74_18 (A2), Albee_15 (A4), Alberto7_16 (A4), Aliter_17 (A9), Alma_17 (A9), Anaysia_18 (A15), AnnaL29_19 (A2), Annyong_15 (A4), Anon_16 (A15), Anselm_16 (A2), Anthony_15 (A20), ArcherNM_18 (A2), Arissanae_15 (A9), Arturo_14 (A4), AvatarAhPeg_15 (A4), Avle17_15 (A4), Baby16_15 (A4), BabyBack_17 (A2), Backyardigan_15 (A4), Bactobuster_17 (A2), Badger_15 (A4), Baehexic_17 (A2), BangNhom_14 (A4), Bartimeaus_15 (A4), Battleship_19 (A15), Beemo_17 (A9), BellusTerra_15 (A4),

BengiVuitton_17 (A2), Benvolio_16 (A2), BiancaTri92_18 (A2), Blackmoor_15 (A4), BogosyJay_17 (A9), Bombshell_15 (A4), Boohoo_18 (A15), Broseidon_15 (A4), Bruiser_15 (A4), BubbleTrouble_15 (A4), Buggy_18 (A2), Bumblebee11_15 (A4), Burger_14 (A4), C3_14 (A2), CRB1_16 (A2), Caelakin_15 (A4), Camperdownii_14 (A4), Caraxes_15 (A2), Catalina_17 (A9), Centaur_18 (A2), CentreCat_15 (A4), Cerulean_15 (A4), ChampagnePapi_15 (A4), Changeling_19 (A2), Chaph_15 (A4), Charm_16 (A9), Che12_17 (A2), ChipMunk_18 (A2), Chupacabra_15 (A10), Cici_15 (A4), Cindaradix_14 (A4), Cintron_15 (A4), Citius_15 (A4), Clarenza_15 (A4), Cocoaberry_15 (A4), Commander_15 (A4), Connomayer_15 (A4), Conquerage_17 (A9), Crucio_16 (A2), Dalmatian_16 (A2), Darrell_18 (A9), DarthPhader_17 (A12), Datway_15 (A4), Deano_15 (A4), DekHockey33_18 (A15), Deloris_17 (A2), Dhanush_15 (A4), Dignity_18 (A2), DirtyDunning_15 (A4), Drake55_18 (A2), Drake94_14 (A10), DreamTeam1_16 (A9), DroogsArmy_16 (A7), Druantia_15 (A4), DudeLittle_16 (A2), EZMoney23_20 (A2), EagleEye_18 (A16), Eagle_14 (A4), Eaglepride_16 (A10), Eapen_15 (A4), Echild_16 (A2), Edison31_14 (A10), Eidsmoe_17 (A9), Elephantoon_17 (A9), EmyBug_15 (A9), Epsocamisio_18 (A15), Equemioh13_18 (A2), Eris_15 (A4), Eros_15 (A4), Eurydice_15 (A4), EvilGenius_18 (A2), ExplosioNervosa_17 (A9), Fameo_16 (A2), Fayely_17 (A9), FiringLine_16 (A2), First_0016 (A2), Flare16_16 (A2), Florean_15 (A4), Flux_15 (A4), Funston_15 (A4), Gadost_15 (A4), Georgie2_17 (A2), Goose_15 (A10), HINdeR_15 (A7), HamSlice_14 (A4), Happiness_15 (A4), HarryHoudini_18 (A2), Heffalump_18 (A2), Holli_15 (A4), HortumSL17_17 (A9), Houdini22_15 (A4), ICleared_15 (A4), Iceman_15 (A4), Iracema64_15 (A4), IronMan_18 (A2), Iwokeupliikedis_16 (A2), JSwag_18 (A15), Jaan_19 (A2), Jaykayelowell_15 (A4), Jerm_18 (A2), JetBlade_15 (A4), JoongJeon_15 (A4), JoshKayV_18 (A2), Journey13_14 (A2), Jsquared_15 (A2), KFPoly_15 (A4), Kalpine_19 (A2), Kampy_15 (A4), Katalie136_15 (A4), KatherineG_18 (A15), Keziacharles14_15 (A9), Kimona_12 (A19), KingCyrus_18 (A2), Kingmustik0402_15 (A4), KittenMittens_14 (A10), Koreni_14 (A4), Kratark_15 (A4), Kremtemulon_14 (A4), Kristoff_16 (A10), Kyee_15 (A4), LHTSCC_15 (A4), LadyBird_16 (A2), Landor_17 (A2), LappelDuVide_14 (A4), Larenn_17 (A2), LastResort_18 (A15), Lemur_15 (A4), LeoAvram_15 (A4), Leogania_18 (A2), Leviathan_18 (A2), LilTurb_18 (A2), LittleB_15 (A4), LittleGuy_15 (A4), LochMonster_15 (A4), LoneWolf_17 (A9), Looper_19 (A15), Lorenzo_15 (A4), Loser_19 (A2), Lucyedi_17 (A16), Lunsford_16 (A4), Malec_17 (A2), Maminiaina_17 (A9), Maverick_15 (A4), Maxo_15 (A4), Mazhar510_15 (A4), Medusa_15 (A4), MeeZee_15 (A4), Melvin_15 (A4), MiculUcigas_16 (A2), Millski_15 (A4), MinecraftSteve_19 (A15), Miramae_15 (A4), MissWhite_16 (A2), Morpher26_15 (A4), Morrow_15 (A4), Mundrea_15 (A4), Myxus_17 (A9), NaSiaTalie_16 (A2), Nebs_15 (A4), Nebulosus_18 (A15), Nedarya_17 (A15), Nemo27_15 (A4), NicoleTera_20 (A2), Noelle_15 (A4), NorthStar_15 (A4), NotAPhaseMom_15 (A4), NothingSpecial_18 (A2), Nyxis_15 (A4), OKCentral2016_15 (A10), OKaNui_15 (A4), Obama12_15 (A4), Odin_15 (A2), Ohfah_15 (A4), Oofda_19 (A15), PackMan_17 (A9), PainterBoy_17 (A16), Palestino_15 (A4), PeaceMeal1_14 (A10), Peaches_15 (A4), Perplexer_15 (A4), PeterPeter_15 (A4), PetiteSangsue_15 (A4), Ph8s_17 (A2), Phacado_15 (A4), Phaded_19 (A2), Phaeder_17 (A9), Pharaoh_16 (A12), Phelipe_15 (A4), Phighter1804_15 (A4), Phonnegut_17 (A9), Phontbonne_15 (A4), Pioneer_17 (A9), Pipcraft_15 (A4), Piro94_17 (A2), Polymorphads_15 (A4), Poompha_14 (A10), Power_16 (A2), Priya_17 (A9), Pukovnik_18 (A2), Pumbaa_15 (A4), Qobbit_17 (A9), QueenB2_16 (A2), QueenBeesly_16 (A2), Rahalelujah_15 (A9), ReMo_18 (A15), Rebeuca_16 (A10), RedRock_19 (A2), Refuge_19 (A12), Relief_15 (A4), Remus_18 (A15), Retro23_16 (A2), RhynO_16 (A10), Romney_15 (A4), Roosevelt_15 (A4), Rosalind_18 (A15), Ruin_15 (A4), Sabertooth_15 (A4), Scamp_15 (A4), Scherzo_17 (A9), SemperFi_18 (A2), Serenity_15 (A2), Severus_14 (A10), Shaka_15 (A4),

ShayRa_19 (A15), SheaKeira_16 (A9), SheldonCooper_15 (A4), Shygu2_15 (A4), Skipitt_15 (A4), Smeagan_18 (A2), SnapTap_16 (A2), Soups_18 (A15), Sparxx_15 (A4), Spino_15 (A4), Spouty_16 (A9), Stasia_16 (A4), Steamy_17 (A12), Stink_15 (A4), Strosahl_18 (A15), Superchunk_15 (A2), SweetiePie_16 (A2), Switzerland_18 (A15), Taquarus_15 (A4), TarsusIV_16 (A2), Thanksgiving_15 (A4), Timshel_16 (A7), TinaFeyge_15 (A4), Tinybot_14 (A4), TipsytheTRex_15 (A2), TiroTheta9_15 (A4), Toaka_15 (A9), Topanga_15 (A10), Trike_13 (A10), Trixie_19 (A2), Trooper_16 (A2), TroyPia_15 (A4), Tubs_17 (A9), Turbido_18 (A2), Twister_15 (A10), TygerBlood_15 (A4), Ugenie5_14 (A9), Ulysses_14 (A4), Updawg_18 (A2), VA6_16 (A2), VC3_19 (A2), Vanisoa_15 (A9), Waits_18 (A15), WalterMcMickey_15 (A10), Wander_15 (A4), WeiHuaDA_22 (A2), Whabigail7_18 (A2), WideWale_18 (A2), Wilbur_15 (A4), Wile_15 (A4), Wizard007_15 (A4), Xena_15 (A4), Yecey3_16 (A9), YoSam321_15 (A4), Zimmer_18 (A12),

Start 6:

- Found in 1 of 628 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sheen_17 (A7),

Start 7:

- Found in 118 of 628 (18.8%) of genes in pham
- Manual Annotations of this start: 112 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ACFishhook_17 (A3), Aglet_17 (A3), AgronaGT15_17 (A3), Anubis_19 (A3), AugsMagnumOpus_19 (A3), B1_13 (A3), BabyRay_15 (A3), Beauxregard13_17 (A3), BlueBird_16 (A3), BreSam8_17 (A3), Bugatti_15 (A3), BuzzBuzz_16 (A3), Bxz2_17 (A3), Caviar_16 (A3), Colbster_17 (A3), Cullens_17 (A3), DaHudson_17 (A3), Daishi_16 (A3), Dieselweasel_17 (A3), EpicPhail_17 (A3), Farber_17 (A3), Fernando_17 (A3), Fred313_15 (A3), Gemma_17 (A3), GingkoMaracino_17 (A3), Giroux_15 (A3), Grif_17 (A3), Groupthink_18 (A3), Grub_17 (A3), Grum1_17 (A3), GtownJaz_17 (A3), HashRod_18 (A3), HaveUMetTed_18 (A3), Heathen_15 (A3), HelDan_15 (A3), Heliosoles_17 (A3), Hercules11_17 (A3), Hookmount_16 (A3), Idleandcovert_15 (A3), Isca_15 (A3), JF2_15 (A3), JF4_15 (A3), JHC117_17 (A3), JenCasNa_17 (A3), JeppNRM_18 (A3), Jobu08_17 (A3), KADY_18 (A3), Kalb97_18 (A3), Kalnoky_18 (A3), LBerry_17 (A3), Lambert1_16 (A3), LarryKay_17 (A3), Lilith_17 (A3), Louie6_17 (A3), LugYA_19 (A3), MA5_15 (A3), MK4_15 (A3), MadMarie_17 (A3), Mainiac_17 (A3), Malinsilva_19 (A3), Manu_18 (A3), MarQuardt_17 (A3), Margo_16 (A3), Marie_17 (A3), Marius_18 (A3), Methuselah_17 (A3), Microwolf_17 (A3), Misomonster_19 (A3), MoneyMay_17 (A3), MuchMore_19 (A3), Noella_16 (A3), Norbert_15 (A3), OlanP_17 (A3), Ollie_17 (A3), P28Green_17 (A3), PGHhamlin_19 (A3), PP_25 (A7), Panamaxus_16 (A3), Pawn_18 (A3), Pembroke_17 (A3), Penny1_17 (A3), Phantastic_15 (A3), PhishRPhriends_16 (A3), Phoebe_17 (A3), Phoxy_17 (A3), Phranny_18 (A3), Pistachio_16 (A3), Pocahontas_16 (A3), Popcicle_16 (A3), PotatoSplit_18 (A3), Puppy_16 (A3), PurpleHaze_17 (A3), QuinnKiro_15 (A3), Reba_18 (A3), ResDef_16 (A3), Rockstar_15 (A3), Rummer_17 (A3), Sabia_17 (A3), Sabinator_17 (A3), SaturnRing_15 (A3), Scout_15 (A3), Snickers_17 (A3), SoYo_17 (A3), SoilDragon_17 (A3), Soshari_19 (A3), Spike509_17 (A3), Stagni_17 (A3), StepMih_17 (A3), TNguyen7_15 (A3), Taurus_17 (A3), Texage_15 (A3), Tiffany_17 (A3), Todacoro_16 (A3), Veracruz_15 (A3), Vix_17 (A3), Watson_17 (A3), Wooldri_19 (A3), Zetzy_16 (A3),

Start 10:

- Found in 15 of 628 (2.4%) of genes in pham
- Manual Annotations of this start: 14 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillKnuckles_16 (A1), BobSwaget_19 (A2), Bxb1_14 (A1), Chargerpower_16 (A), Gail_15 (A14), Jeeves_15 (A14), Kugel_16 (A1), Kykar_13 (A1), Lokk_19 (A2), Luchador_16 (A14), Miko_19 (A2), Phlei_12 (A13), Rachaly_19 (A2), SororFago_15 (A14), Target_17 (A1),

Start 13:

- Found in 50 of 628 (8.0%) of genes in pham
- Manual Annotations of this start: 49 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_13 (A5), Airmid_13 (A5), Aragog_13 (A5), Archetta_13 (A5), Astro_13 (A8), Benedict_13 (A5), Bluefalcon_12 (A5), Bonamassa_13 (A5), Chadwick_14 (A5), Conspiracy_13 (A5), Coog_13 (A5), Cuco_13 (A5), Danforth_12 (A8), Discoknowium_13 (A5), Dixon_13 (A8), Dublin_12 (A5), EITiger69_13 (A5), Expelliarmus_12 (A8), ForGetIt_13 (A5), George_12 (A5), Ghoulyboy_13 (A5), Groundhog_12 (A8), HuhtaEnerson15_13 (A5), Jabiru_13 (A5), Jovo_13 (A5), Lev2_13 (A5), LittleCherry_13 (A5), MarysWell_12 (A5), Micasa_12 (A5), Midas2_13 (A5), Milcery_13 (A5), MyraDee_13 (A18), Naca_13 (A5), NearlyHeadless_13 (A8), PetterN_14 (A5), Phillis_13 (A8), Phlorence_13 (A5), PickleBack_13 (A5), Roary_13 (A8), Saintus_13 (A8), Scorpia_14 (A5), Smeadley_13 (A8), Stephig9_13 (A8), Swirley_13 (A5), SydNat_13 (A5), Tarynearal_12 (A5), Theia_12 (A5), Tiger_13 (A5), UnionJack_13 (A5), Zolita_12 (A5),

Start 14:

- Found in 41 of 628 (6.5%) of genes in pham
- Manual Annotations of this start: 36 of 587
- Called 92.7% of time when present
- Phage (with cluster) where this start called: Alatin_12 (CA), Alpacados_11 (CA), AngryOrchard_11 (CA), AppleCloud_10 (CA), Belenaria_12 (CA), BobbyDazzler_12 (CA), Bonanza_12 (CA), Bradshaw_12 (CA), Bryce_12 (CA), CosmicSans_12 (CA), Dinger_12 (CA), Erik_12 (CA), Espica_12 (CA), Gollum_12 (CA), Harlequin_12 (CA), Hiro_12 (CA), Jester_12 (CA), Krishelle_12 (CA), Lillie_12 (CA), Naiad_12 (CA), Nancinator_12 (CA), Natosaleda_12 (CA), Partridge_12 (CA), PhailMary_11 (CA), Phrankenstien_12 (CA), RER2_5 (CA), RGL3_5 (CA), Rasputin_12 (CA), RexFury_12 (CA), Rhodalysa_12 (CA), Shuman_12 (CA), StCroix_12 (CA), Swann_12 (CA), TWAMP_12 (CA), Takoda_12 (CA), UhSalsa_12 (CA), Yogi_12 (CA), Yoncess_12 (CA),

Start 16:

- Found in 1 of 628 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 587
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartoi_6 (singleton),

Start 17:

- Found in 2 of 628 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_06 (singleton), Hum25_6 (FQ),

Summary by clusters:

There are 24 clusters represented in this pham: FQ, singleton, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, A, CA, A20,

Info for manual annotations of cluster A:

- Start number 10 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A1:

- Start number 10 was manually annotated 5 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 5 was manually annotated 16 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 4 was manually annotated 22 times for cluster A11.

Info for manual annotations of cluster A12:

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

Info for manual annotations of cluster A14:

- Start number 10 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 5 was manually annotated 21 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 5 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 13 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 5 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 1 was manually annotated 2 times for cluster A2.
- Start number 3 was manually annotated 1 time for cluster A2.
- Start number 4 was manually annotated 10 times for cluster A2.
- Start number 5 was manually annotated 83 times for cluster A2.
- Start number 10 was manually annotated 4 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 5 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 7 was manually annotated 111 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 5 was manually annotated 135 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 13 was manually annotated 37 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 2 was manually annotated 1 time for cluster A6.
- Start number 4 was manually annotated 38 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 5 was manually annotated 3 times for cluster A7.
- Start number 6 was manually annotated 1 time for cluster A7.
- Start number 7 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:

- Start number 13 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 5 was manually annotated 32 times for cluster A9.

Info for manual annotations of cluster CA:

- Start number 14 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: 20ES_16 Start: 12180, Stop: 13136, Start Num: 5

Candidate Starts for 20ES_16:

(Start: 5 @12180 has 300 MA's), (15, 12204), (19, 12240), (28, 12336), (31, 12378), (33, 12408), (35, 12432), (41, 12477), (45, 12528), (46, 12540), (49, 12588), (65, 12690), (71, 12747), (97, 12975), (104, 13026),

Gene: 40AC_19 Start: 14194, Stop: 15159, Start Num: 5

Candidate Starts for 40AC_19:

(Start: 5 @14194 has 300 MA's), (19, 14254), (28, 14350), (31, 14392), (33, 14422), (35, 14446), (41, 14491), (45, 14542), (47, 14572), (57, 14656), (84, 14881), (95, 14956), (97, 14992), (104, 15043), (114, 15139),

Gene: ACFishhook_17 Start: 11691, Stop: 12689, Start Num: 7

Candidate Starts for ACFishhook_17:

(Start: 7 @11691 has 112 MA's), (28, 11832), (39, 11952), (43, 11991), (45, 12024), (70, 12222), (77, 12291), (79, 12318), (86, 12399), (97, 12492), (102, 12537), (103, 12543), (105, 12576), (110, 12612), (113, 12636),

Gene: AN3_16 Start: 12170, Stop: 13126, Start Num: 5

Candidate Starts for AN3_16:

(Start: 5 @12170 has 300 MA's), (15, 12194), (19, 12230), (28, 12326), (31, 12368), (33, 12398), (35, 12422), (41, 12467), (45, 12518), (46, 12530), (49, 12578), (65, 12680), (71, 12737), (97, 12965), (104, 13016),

Gene: AN9_19 Start: 12128, Stop: 13129, Start Num: 5

Candidate Starts for AN9_19:

(Start: 5 @12128 has 300 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (67, 12656), (97, 12956), (104, 13007), (112, 13076), (113, 13088),

Gene: ANI8_19 Start: 12128, Stop: 13129, Start Num: 5

Candidate Starts for ANI8_19:

(Start: 5 @12128 has 300 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (67, 12656), (97, 12956), (104, 13007), (112, 13076), (113, 13088),

Gene: AbbyPaige_18 Start: 12625, Stop: 13581, Start Num: 5

Candidate Starts for AbbyPaige_18:

(Start: 5 @12625 has 300 MA's), (19, 12685), (23, 12733), (25, 12754), (28, 12781), (31, 12823), (33, 12853), (35, 12877), (45, 12973), (46, 12985), (61, 13108), (65, 13135), (70, 13162), (74, 13207), (94, 13366), (95, 13384), (97, 13420), (104, 13471),

Gene: AbbysRanger_15 Start: 11509, Stop: 12441, Start Num: 5

Candidate Starts for AbbysRanger_15:

(Start: 5 @11509 has 300 MA's), (19, 11569), (28, 11665), (29, 11680), (33, 11737), (35, 11761), (45, 11857), (56, 11962), (75, 12085), (79, 12127), (97, 12289), (104, 12340), (108, 12376), (112, 12409),

Gene: Abdiel_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Abdiel_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Achebe_15 Start: 11488, Stop: 12420, Start Num: 5

Candidate Starts for Achebe_15:

(Start: 5 @11488 has 300 MA's), (19, 11548), (28, 11644), (29, 11659), (32, 11701), (33, 11716), (35, 11740), (45, 11836), (47, 11866), (52, 11920), (75, 12064), (79, 12106), (97, 12268), (104, 12319), (108, 12355), (112, 12388),

Gene: Acolyte_16 Start: 12319, Stop: 13275, Start Num: 5

Candidate Starts for Acolyte_16:

(Start: 5 @12319 has 300 MA's), (19, 12379), (25, 12448), (27, 12469), (28, 12475), (31, 12517), (33, 12547), (35, 12571), (41, 12616), (45, 12667), (47, 12697), (59, 12802), (70, 12856), (95, 13078),

Gene: Adzzy_17 Start: 10935, Stop: 11891, Start Num: 5

Candidate Starts for Adzzy_17:

(Start: 5 @10935 has 300 MA's), (19, 10995), (27, 11085), (28, 11091), (31, 11133), (33, 11163), (35, 11187), (41, 11232), (45, 11283), (46, 11295), (47, 11313), (59, 11418), (70, 11472), (74, 11517), (81, 11592), (83, 11601), (94, 11676),

Gene: Agape74_18 Start: 12625, Stop: 13581, Start Num: 5

Candidate Starts for Agape74_18:

(Start: 5 @12625 has 300 MA's), (19, 12685), (23, 12733), (28, 12781), (31, 12823), (33, 12853), (35, 12877), (45, 12973), (46, 12985), (61, 13108), (65, 13135), (70, 13162), (74, 13207), (94, 13366), (95, 13384), (97, 13420), (104, 13471),

Gene: AgentM_13 Start: 10877, Stop: 11809, Start Num: 13

Candidate Starts for AgentM_13:

(Start: 13 @10877 has 49 MA's), (28, 11006), (31, 11048), (33, 11078), (43, 11165), (45, 11198), (65, 11339), (79, 11462), (81, 11486), (87, 11546), (94, 11585), (96, 11606), (98, 11654), (105, 11711),

(110, 11747), (113, 11771),

Gene: Aglet_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for Aglet_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: AgronaGT15_17 Start: 11447, Stop: 12439, Start Num: 7

Candidate Starts for AgronaGT15_17:

(Start: 7 @11447 has 112 MA's), (28, 11588), (39, 11708), (43, 11747), (45, 11780), (56, 11891), (70, 11978), (79, 12074), (86, 12155), (91, 12182), (94, 12194), (97, 12248), (102, 12293), (103, 12299), (105, 12332), (110, 12368), (113, 12392),

Gene: Airmid_13 Start: 10628, Stop: 11569, Start Num: 13

Candidate Starts for Airmid_13:

(Start: 13 @10628 has 49 MA's), (28, 10757), (33, 10829), (43, 10916), (45, 10949), (47, 10979), (65, 11090), (79, 11213), (81, 11237), (87, 11297), (94, 11336), (96, 11357), (98, 11405), (105, 11462), (110, 11498), (113, 11522),

Gene: Alatin_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Alatin_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Albee_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Albee_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Alberto7_16 Start: 11784, Stop: 12716, Start Num: 5

Candidate Starts for Alberto7_16:

(Start: 5 @11784 has 300 MA's), (19, 11844), (28, 11940), (33, 12012), (35, 12036), (45, 12132), (52, 12216), (75, 12360), (79, 12402), (97, 12564), (100, 12597), (104, 12615), (108, 12651), (112, 12684),

Gene: Aliter_17 Start: 12776, Stop: 13735, Start Num: 5

Candidate Starts for Aliter_17:

(Start: 5 @12776 has 300 MA's), (19, 12836), (27, 12926), (28, 12932), (31, 12974), (33, 13004), (35, 13028), (41, 13073), (45, 13124), (46, 13136), (47, 13154), (63, 13277), (65, 13289), (94, 13520), (104, 13625),

Gene: Alma_17 Start: 12855, Stop: 13814, Start Num: 5

Candidate Starts for Alma_17:

(Start: 5 @12855 has 300 MA's), (19, 12915), (27, 13005), (28, 13011), (31, 13053), (33, 13083), (35, 13107), (41, 13152), (45, 13203), (46, 13215), (47, 13233), (63, 13356), (65, 13368), (94, 13599), (104, 13704),

Gene: Alpacados_11 Start: 7663, Stop: 8565, Start Num: 14

Candidate Starts for Alpacados_11:

(Start: 14 @7663 has 36 MA's), (28, 7792), (36, 7894), (42, 7936), (43, 7951), (45, 7984), (58, 8107), (77, 8239), (83, 8299), (85, 8332),

Gene: Anaysia_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for Anaysia_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Aneem_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Aneem_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: AngryOrchard_11 Start: 7646, Stop: 8548, Start Num: 14

Candidate Starts for AngryOrchard_11:

(Start: 14 @7646 has 36 MA's), (28, 7775), (36, 7877), (42, 7919), (43, 7934), (45, 7967), (77, 8222), (83, 8282), (85, 8315),

Gene: AnnaL29_19 Start: 14013, Stop: 14969, Start Num: 5

Candidate Starts for AnnaL29_19:

(Start: 5 @14013 has 300 MA's), (19, 14073), (25, 14142), (28, 14169), (31, 14211), (33, 14241), (35, 14265), (41, 14310), (45, 14361), (47, 14391), (49, 14421), (57, 14475), (61, 14496), (70, 14550), (74, 14595), (84, 14697), (95, 14772), (97, 14808), (104, 14859),

Gene: Annyong_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Annyong_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Anon_16 Start: 11653, Stop: 12609, Start Num: 5

Candidate Starts for Anon_16:

(Start: 5 @11653 has 300 MA's), (19, 11713), (28, 11809), (33, 11881), (35, 11905), (41, 11950), (45, 12001), (46, 12013), (47, 12031), (113, 12580),

Gene: Anselm_16 Start: 12272, Stop: 13228, Start Num: 5

Candidate Starts for Anselm_16:

(Start: 5 @12272 has 300 MA's), (19, 12332), (23, 12380), (28, 12428), (31, 12470), (33, 12500), (35, 12524), (41, 12569), (45, 12620), (47, 12650), (61, 12755), (70, 12809), (74, 12854), (94, 13013), (95, 13031), (97, 13067), (104, 13118),

Gene: Anthony_15 Start: 10391, Stop: 11347, Start Num: 5

Candidate Starts for Anthony_15:

(Start: 5 @10391 has 300 MA's), (19, 10451), (21, 10478), (25, 10520), (27, 10541), (28, 10547), (31, 10589), (33, 10619), (35, 10643), (41, 10688), (43, 10706), (45, 10739), (46, 10751), (47, 10769), (59, 10874), (70, 10928), (73, 10970), (83, 11057), (104, 11237), (109, 11291),

Gene: Anubis_19 Start: 11425, Stop: 12417, Start Num: 7

Candidate Starts for Anubis_19:

(Start: 7 @11425 has 112 MA's), (28, 11566), (39, 11686), (43, 11725), (45, 11758), (56, 11869), (70, 11956), (79, 12052), (86, 12133), (91, 12160), (94, 12172), (97, 12226), (102, 12271), (103, 12277), (105, 12310), (110, 12346), (113, 12370),

Gene: AppleCloud_10 Start: 7410, Stop: 8312, Start Num: 14

Candidate Starts for AppleCloud_10:

(Start: 14 @7410 has 36 MA's), (28, 7539), (36, 7641), (42, 7683), (43, 7698), (45, 7731), (77, 7986), (83, 8046), (85, 8079),

Gene: ArV2_06 Start: 4761, Stop: 5657, Start Num: 17

Candidate Starts for ArV2_06:

(17, 4761), (18, 4782), (25, 4860), (27, 4881), (41, 5028), (44, 5070), (70, 5262), (79, 5358), (96, 5481), (97, 5514), (106, 5577),

Gene: Aragog_13 Start: 10907, Stop: 11839, Start Num: 13

Candidate Starts for Aragog_13:

(Start: 13 @10907 has 49 MA's), (28, 11036), (31, 11078), (33, 11108), (43, 11195), (45, 11228), (65, 11369), (79, 11492), (81, 11516), (87, 11576), (94, 11615), (96, 11636), (98, 11684), (105, 11741), (110, 11777), (113, 11801),

Gene: ArcherNM_18 Start: 13960, Stop: 14916, Start Num: 5

Candidate Starts for ArcherNM_18:

(Start: 5 @13960 has 300 MA's), (19, 14020), (28, 14116), (31, 14158), (33, 14188), (35, 14212), (41, 14257), (45, 14308), (46, 14320), (49, 14368), (61, 14443), (65, 14470), (70, 14497), (74, 14542), (94, 14701), (95, 14719), (97, 14755), (104, 14806),

Gene: Archetta_13 Start: 10620, Stop: 11552, Start Num: 13

Candidate Starts for Archetta_13:

(Start: 13 @10620 has 49 MA's), (28, 10749), (33, 10821), (43, 10908), (45, 10941), (65, 11082), (79, 11205), (81, 11229), (87, 11289), (94, 11328), (96, 11349), (98, 11397), (105, 11454), (110, 11490), (113, 11514),

Gene: Arissanae_15 Start: 10971, Stop: 11939, Start Num: 5

Candidate Starts for Arissanae_15:

(Start: 5 @10971 has 300 MA's), (19, 11031), (28, 11127), (33, 11199), (35, 11223), (41, 11268), (45, 11319), (47, 11349), (61, 11454), (70, 11508), (107, 11859),

Gene: Artemis2UCLA_19 Start: 12118, Stop: 13089, Start Num: 4

Candidate Starts for Artemis2UCLA_19:

(Start: 4 @12118 has 70 MA's), (19, 12178), (28, 12274), (31, 12316), (33, 12346), (35, 12370), (41, 12415), (45, 12466), (46, 12478), (47, 12496), (63, 12601), (84, 12787), (113, 13060),

Gene: Arturo_14 Start: 11593, Stop: 12525, Start Num: 5

Candidate Starts for Arturo_14:

(Start: 5 @11593 has 300 MA's), (19, 11653), (28, 11749), (33, 11821), (35, 11845), (45, 11941), (52, 12025), (75, 12169), (79, 12211), (97, 12373), (100, 12406), (104, 12424), (108, 12460), (112, 12493),

Gene: Astro_13 Start: 10381, Stop: 11331, Start Num: 13

Candidate Starts for Astro_13:

(Start: 13 @10381 has 49 MA's), (28, 10510), (31, 10552), (43, 10669), (45, 10702), (50, 10777), (66, 10861), (77, 10951), (79, 10978), (83, 11011), (87, 11062), (94, 11101), (105, 11227), (110, 11263),

Gene: AugsMagnumOpus_19 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for AugsMagnumOpus_19:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: AvatarAhPeg_15 Start: 11447, Stop: 12379, Start Num: 5

Candidate Starts for AvatarAhPeg_15:

(Start: 5 @11447 has 300 MA's), (19, 11507), (28, 11603), (29, 11618), (33, 11675), (35, 11699), (45, 11795), (47, 11825), (52, 11879), (75, 12023), (79, 12065), (97, 12227), (100, 12260), (104, 12278), (112, 12347),

Gene: Avle17_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Avle17_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: B1_13 Start: 10746, Stop: 11738, Start Num: 7

Candidate Starts for B1_13:

(Start: 7 @10746 has 112 MA's), (12, 10755), (28, 10887), (39, 11007), (43, 11046), (45, 11079), (56, 11190), (57, 11199), (73, 11316), (79, 11370), (87, 11454), (97, 11544), (103, 11595), (105, 11628), (110, 11664),

Gene: BABullseye_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for BABullseye_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: Baby16_15 Start: 11488, Stop: 12420, Start Num: 5

Candidate Starts for Baby16_15:

(Start: 5 @11488 has 300 MA's), (19, 11548), (28, 11644), (33, 11716), (35, 11740), (45, 11836), (52, 11920), (75, 12064), (79, 12106), (97, 12268), (100, 12301), (104, 12319), (108, 12355), (112, 12388),

Gene: BabyBack_17 Start: 13819, Stop: 14778, Start Num: 5

Candidate Starts for BabyBack_17:

(Start: 5 @13819 has 300 MA's), (19, 13879), (28, 13975), (31, 14017), (33, 14047), (35, 14071), (41, 14116), (45, 14167), (47, 14197), (70, 14356), (73, 14398), (79, 14452), (81, 14476),

Gene: BabyRay_15 Start: 11329, Stop: 12303, Start Num: 7

Candidate Starts for BabyRay_15:

(Start: 7 @11329 has 112 MA's), (28, 11470), (39, 11590), (43, 11629), (45, 11662), (56, 11773), (77, 11926), (79, 11953), (87, 12037), (92, 12064), (93, 12070), (97, 12127), (102, 12172), (103, 12178), (105, 12211), (110, 12247),

Gene: Bachome_16 Start: 12696, Stop: 13685, Start Num: 4

Candidate Starts for Bachome_16:

(Start: 4 @12696 has 70 MA's), (19, 12756), (22, 12786), (27, 12846), (28, 12852), (31, 12894), (33, 12924), (35, 12948), (41, 12993), (45, 13044), (46, 13056), (47, 13074), (57, 13158), (63, 13194), (65, 13206), (70, 13233), (97, 13491), (109, 13596),

Gene: Backyardigan_15 Start: 11500, Stop: 12432, Start Num: 5

Candidate Starts for Backyardigan_15:

(Start: 5 @11500 has 300 MA's), (19, 11560), (28, 11656), (29, 11671), (32, 11713), (33, 11728), (35, 11752), (45, 11848), (47, 11878), (52, 11932), (75, 12076), (79, 12118), (97, 12280), (104, 12331), (108, 12367), (112, 12400),

Gene: Bactobuster_17 Start: 13897, Stop: 14853, Start Num: 5

Candidate Starts for Bactobuster_17:

(Start: 5 @13897 has 300 MA's), (19, 13957), (25, 14026), (28, 14053), (31, 14095), (33, 14125), (35, 14149), (41, 14194), (45, 14245), (47, 14275), (65, 14407), (71, 14464), (94, 14638), (97, 14692),

Gene: Badger_15 Start: 11489, Stop: 12421, Start Num: 5

Candidate Starts for Badger_15:

(Start: 5 @11489 has 300 MA's), (19, 11549), (28, 11645), (29, 11660), (32, 11702), (33, 11717), (35, 11741), (45, 11837), (47, 11867), (52, 11921), (75, 12065), (79, 12107), (97, 12269), (104, 12320), (108, 12356), (112, 12389),

Gene: Baehexic_17 Start: 12674, Stop: 13630, Start Num: 5

Candidate Starts for Baehexic_17:

(Start: 5 @12674 has 300 MA's), (11, 12689), (19, 12734), (28, 12830), (31, 12872), (33, 12902), (35, 12926), (41, 12971), (45, 13022), (47, 13052), (61, 13157), (65, 13184), (70, 13211), (74, 13256), (94, 13415), (95, 13433), (97, 13469), (104, 13520),

Gene: BangNhom_14 Start: 11457, Stop: 12389, Start Num: 5

Candidate Starts for BangNhom_14:

(Start: 5 @11457 has 300 MA's), (19, 11517), (28, 11613), (29, 11628), (33, 11685), (35, 11709), (45, 11805), (47, 11835), (52, 11889), (75, 12033), (79, 12075), (97, 12237), (100, 12270), (104, 12288), (108, 12324), (112, 12357),

Gene: Bartimeaus_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Bartimeaus_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Battleship_19 Start: 11410, Stop: 12360, Start Num: 5

Candidate Starts for Battleship_19:

(Start: 5 @11410 has 300 MA's), (19, 11470), (28, 11566), (33, 11638), (35, 11662), (41, 11707), (45, 11758), (47, 11788), (96, 12166), (108, 12286), (113, 12331),

Gene: Beauxregard13_17 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for Beauxregard13_17:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: Beemo_17 Start: 12882, Stop: 13841, Start Num: 5

Candidate Starts for Beemo_17:

(Start: 5 @12882 has 300 MA's), (19, 12942), (27, 13032), (28, 13038), (31, 13080), (33, 13110), (35, 13134), (41, 13179), (45, 13230), (46, 13242), (47, 13260), (63, 13383), (65, 13395), (94, 13626), (104, 13731),

Gene: Belenaria_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Belenaria_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: BellusTerra_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for BellusTerra_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Benedict_13 Start: 10630, Stop: 11571, Start Num: 13

Candidate Starts for Benedict_13:

(Start: 13 @10630 has 49 MA's), (28, 10759), (33, 10831), (43, 10918), (45, 10951), (47, 10981), (65, 11092), (79, 11215), (81, 11239), (87, 11299), (94, 11338), (96, 11359), (98, 11407), (105, 11464), (110, 11500), (113, 11524),

Gene: BengiVuitton_17 Start: 12587, Stop: 13543, Start Num: 5

Candidate Starts for BengiVuitton_17:

(Start: 5 @12587 has 300 MA's), (15, 12611), (19, 12647), (28, 12743), (31, 12785), (33, 12815), (35, 12839), (41, 12884), (45, 12935), (46, 12947), (49, 12995), (65, 13097), (71, 13154), (97, 13382), (104, 13433),

Gene: Benvolio_16 Start: 12262, Stop: 13218, Start Num: 5

Candidate Starts for Benvolio_16:

(Start: 5 @12262 has 300 MA's), (19, 12322), (23, 12370), (25, 12391), (28, 12418), (31, 12460), (33, 12490), (41, 12559), (45, 12610), (61, 12745), (74, 12844), (95, 13021), (97, 13057), (104, 13108),

Gene: BiancaTri92_18 Start: 13946, Stop: 14902, Start Num: 5

Candidate Starts for BiancaTri92_18:

(Start: 5 @13946 has 300 MA's), (19, 14006), (25, 14075), (28, 14102), (31, 14144), (33, 14174), (35, 14198), (41, 14243), (45, 14294), (47, 14324), (61, 14429), (65, 14456), (74, 14528), (94, 14687), (97, 14741), (104, 14792),

Gene: BillKnuckles_16 Start: 12288, Stop: 13481, Start Num: 10

Candidate Starts for BillKnuckles_16:

(Start: 10 @12288 has 14 MA's), (19, 12336), (20, 12360), (28, 12432), (33, 12504), (35, 12528), (38, 12543), (45, 12624), (47, 12654), (67, 12780), (77, 12861), (79, 12888), (92, 12987), (112, 13170), (113, 13182), (118, 13314), (120, 13347), (122, 13368), (124, 13401),

Gene: Blackmoor_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Blackmoor_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Blinn1_19 Start: 12273, Stop: 13244, Start Num: 4

Candidate Starts for Blinn1_19:

(Start: 4 @12273 has 70 MA's), (19, 12333), (28, 12429), (31, 12471), (33, 12501), (35, 12525), (41, 12570), (45, 12621), (46, 12633), (47, 12651), (63, 12756), (84, 12942),

Gene: Blue7_19 Start: 12209, Stop: 13180, Start Num: 4

Candidate Starts for Blue7_19:

(Start: 4 @12209 has 70 MA's), (19, 12269), (28, 12365), (31, 12407), (33, 12437), (35, 12461), (41, 12506), (45, 12557), (46, 12569), (47, 12587), (63, 12692),

Gene: BlueBird_16 Start: 11103, Stop: 12077, Start Num: 7

Candidate Starts for BlueBird_16:

(Start: 7 @11103 has 112 MA's), (28, 11244), (39, 11364), (43, 11403), (45, 11436), (73, 11673), (77, 11700), (79, 11727), (87, 11811), (97, 11901), (102, 11946), (103, 11952), (105, 11985), (110, 12021),

Gene: Bluefalcon_12 Start: 10877, Stop: 11809, Start Num: 13

Candidate Starts for Bluefalcon_12:

(Start: 13 @10877 has 49 MA's), (28, 11006), (31, 11048), (33, 11078), (43, 11165), (45, 11198), (65, 11339), (79, 11462), (81, 11486), (87, 11546), (94, 11585), (96, 11606), (98, 11654), (105, 11711), (110, 11747), (113, 11771),

Gene: BobSwaget_19 Start: 13830, Stop: 14777, Start Num: 10

Candidate Starts for BobSwaget_19:

(8, 13824), (Start: 10 @13830 has 14 MA's), (19, 13881), (25, 13950), (28, 13977), (29, 13992), (31, 14019), (33, 14049), (38, 14088), (45, 14169), (54, 14271), (71, 14388), (81, 14478), (94, 14562), (97, 14616), (104, 14667),

Gene: BobbyDazzler_12 Start: 7772, Stop: 8674, Start Num: 14

Candidate Starts for BobbyDazzler_12:

(Start: 14 @7772 has 36 MA's), (28, 7901), (36, 8003), (42, 8045), (43, 8060), (45, 8093), (77, 8348), (83, 8408), (85, 8441),

Gene: BogosyJay_17 Start: 12633, Stop: 13592, Start Num: 5

Candidate Starts for BogosyJay_17:

(Start: 5 @12633 has 300 MA's), (19, 12693), (27, 12783), (28, 12789), (31, 12831), (33, 12861), (35, 12885), (41, 12930), (45, 12981), (47, 13011), (57, 13095), (63, 13134), (65, 13146), (84, 13320), (94, 13377), (104, 13482),

Gene: Bombshell_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Bombshell_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Bonamassa_13 Start: 10799, Stop: 11731, Start Num: 13

Candidate Starts for Bonamassa_13:

(Start: 13 @10799 has 49 MA's), (28, 10928), (31, 10970), (33, 11000), (43, 11087), (45, 11120), (79, 11384), (81, 11408), (87, 11468), (94, 11507), (96, 11528), (98, 11576), (105, 11633), (110, 11669), (113, 11693),

Gene: Bonanza_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Bonanza_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (58, 8145), (77, 8277), (83, 8337), (85, 8370),

Gene: Boohoo_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for Boohoo_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Bowtie_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Bowtie_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: Bradshaw_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Bradshaw_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: BreSam8_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for BreSam8_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384),

(105, 12417), (110, 12453), (113, 12477),

Gene: Broseidon_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Broseidon_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Bruiser_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Bruiser_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Bryce_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Bryce_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: BubbleTrouble_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for BubbleTrouble_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Bud_16 Start: 12705, Stop: 13694, Start Num: 4

Candidate Starts for Bud_16:

(Start: 4 @12705 has 70 MA's), (19, 12765), (22, 12795), (27, 12855), (28, 12861), (31, 12903), (33, 12933), (35, 12957), (41, 13002), (45, 13053), (46, 13065), (47, 13083), (57, 13167), (63, 13203), (65, 13215), (70, 13242), (97, 13500), (109, 13605),

Gene: Bugatti_15 Start: 11103, Stop: 12077, Start Num: 7

Candidate Starts for Bugatti_15:

(Start: 7 @11103 has 112 MA's), (28, 11244), (39, 11364), (43, 11403), (45, 11436), (73, 11673), (77, 11700), (79, 11727), (87, 11811), (97, 11901), (102, 11946), (103, 11952), (105, 11985), (110, 12021),

Gene: Buggy_18 Start: 12624, Stop: 13580, Start Num: 5

Candidate Starts for Buggy_18:

(Start: 5 @12624 has 300 MA's), (19, 12684), (23, 12732), (25, 12753), (28, 12780), (31, 12822), (33, 12852), (35, 12876), (45, 12972), (46, 12984), (61, 13107), (65, 13134), (70, 13161), (74, 13206), (94, 13365), (95, 13383), (97, 13419), (104, 13470),

Gene: Bumblebee11_15 Start: 11491, Stop: 12423, Start Num: 5

Candidate Starts for Bumblebee11_15:

(Start: 5 @11491 has 300 MA's), (19, 11551), (28, 11647), (29, 11662), (33, 11719), (35, 11743), (45, 11839), (52, 11923), (75, 12067), (79, 12109), (97, 12271), (100, 12304), (108, 12358), (112, 12391),

Gene: Burger_14 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Burger_14:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: BuzzBuzz_16 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for BuzzBuzz_16:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475),

(105, 12508), (110, 12544), (113, 12568),

Gene: Bxb1_14 Start: 11657, Stop: 12850, Start Num: 10

Candidate Starts for Bxb1_14:

(Start: 10 @11657 has 14 MA's), (19, 11705), (20, 11729), (28, 11801), (33, 11873), (35, 11897), (38, 11912), (45, 11993), (47, 12023), (67, 12149), (77, 12230), (79, 12257), (92, 12356), (112, 12539), (113, 12551), (118, 12683), (120, 12716), (122, 12737), (124, 12770),

Gene: Bxz2_17 Start: 11633, Stop: 12625, Start Num: 7

Candidate Starts for Bxz2_17:

(Start: 7 @11633 has 112 MA's), (28, 11774), (39, 11894), (43, 11933), (45, 11966), (56, 12077), (70, 12164), (79, 12260), (86, 12341), (91, 12368), (94, 12380), (97, 12434), (102, 12479), (103, 12485), (105, 12518), (110, 12554), (113, 12578),

Gene: C3_14 Start: 12128, Stop: 13129, Start Num: 5

Candidate Starts for C3_14:

(Start: 5 @12128 has 300 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (67, 12656), (97, 12956), (104, 13007), (112, 13076), (113, 13088),

Gene: CRB1_16 Start: 12145, Stop: 13101, Start Num: 5

Candidate Starts for CRB1_16:

(Start: 5 @12145 has 300 MA's), (19, 12205), (23, 12253), (25, 12274), (28, 12301), (31, 12343), (33, 12373), (35, 12397), (41, 12442), (45, 12493), (46, 12505), (47, 12523), (61, 12628), (65, 12655), (70, 12682), (74, 12727), (94, 12886), (95, 12904), (97, 12940),

Gene: Caelakin_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Caelakin_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Camperdownii_14 Start: 11101, Stop: 12033, Start Num: 5

Candidate Starts for Camperdownii_14:

(Start: 5 @11101 has 300 MA's), (19, 11161), (28, 11257), (33, 11329), (35, 11353), (45, 11449), (47, 11479), (52, 11533), (75, 11677), (79, 11719), (97, 11881), (100, 11914), (104, 11932), (108, 11968), (112, 12001),

Gene: Candra_19 Start: 12273, Stop: 13244, Start Num: 4

Candidate Starts for Candra_19:

(Start: 4 @12273 has 70 MA's), (19, 12333), (28, 12429), (31, 12471), (33, 12501), (35, 12525), (41, 12570), (45, 12621), (46, 12633), (47, 12651), (63, 12756), (84, 12942), (113, 13215),

Gene: Caraxes_15 Start: 10834, Stop: 11790, Start Num: 5

Candidate Starts for Caraxes_15:

(Start: 5 @10834 has 300 MA's), (19, 10894), (27, 10984), (28, 10990), (31, 11032), (33, 11062), (35, 11086), (41, 11131), (45, 11182), (46, 11194), (47, 11212), (70, 11371), (74, 11416), (83, 11500), (94, 11575),

Gene: Catalina_17 Start: 12849, Stop: 13808, Start Num: 5

Candidate Starts for Catalina_17:

(Start: 5 @12849 has 300 MA's), (19, 12909), (27, 12999), (28, 13005), (31, 13047), (33, 13077), (35, 13101), (41, 13146), (45, 13197), (46, 13209), (47, 13227), (63, 13350), (65, 13362), (94, 13593), (104, 13698),

Gene: Caviar_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Caviar_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Centaur_18 Start: 12652, Stop: 13608, Start Num: 5

Candidate Starts for Centaur_18:

(Start: 5 @12652 has 300 MA's), (19, 12712), (25, 12781), (28, 12808), (31, 12850), (33, 12880), (35, 12904), (41, 12949), (45, 13000), (46, 13012), (61, 13135), (65, 13162), (70, 13189), (74, 13234), (94, 13393), (95, 13411), (97, 13447), (104, 13498),

Gene: CentreCat_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for CentreCat_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Cerulean_15 Start: 11458, Stop: 12390, Start Num: 5

Candidate Starts for Cerulean_15:

(Start: 5 @11458 has 300 MA's), (19, 11518), (28, 11614), (29, 11629), (33, 11686), (35, 11710), (45, 11806), (47, 11836), (52, 11890), (75, 12034), (79, 12076), (97, 12238), (100, 12271), (104, 12289), (108, 12325), (112, 12358),

Gene: Chadwick_14 Start: 10598, Stop: 11539, Start Num: 13

Candidate Starts for Chadwick_14:

(Start: 13 @10598 has 49 MA's), (28, 10727), (33, 10799), (43, 10886), (45, 10919), (47, 10949), (65, 11060), (67, 11075), (79, 11183), (81, 11207), (87, 11267), (94, 11306), (96, 11327), (98, 11375), (105, 11432), (110, 11468), (113, 11492),

Gene: ChampagnePapi_15 Start: 11457, Stop: 12389, Start Num: 5

Candidate Starts for ChampagnePapi_15:

(Start: 5 @11457 has 300 MA's), (19, 11517), (28, 11613), (29, 11628), (33, 11685), (35, 11709), (45, 11805), (47, 11835), (52, 11889), (75, 12033), (79, 12075), (97, 12237), (100, 12270), (104, 12288), (108, 12324), (112, 12357),

Gene: Changeling_19 Start: 14018, Stop: 14968, Start Num: 5

Candidate Starts for Changeling_19:

(Start: 5 @14018 has 300 MA's), (19, 14078), (25, 14147), (28, 14174), (31, 14216), (33, 14246), (35, 14270), (41, 14315), (45, 14366), (47, 14396), (57, 14480), (70, 14549), (74, 14594), (84, 14696), (94, 14753), (95, 14771), (97, 14807), (104, 14858),

Gene: Chaph_15 Start: 11488, Stop: 12420, Start Num: 5

Candidate Starts for Chaph_15:

(Start: 5 @11488 has 300 MA's), (19, 11548), (28, 11644), (33, 11716), (35, 11740), (45, 11836), (52, 11920), (75, 12064), (79, 12106), (97, 12268), (100, 12301), (104, 12319), (108, 12355), (112, 12388),

Gene: Chargerpower_16 Start: 11312, Stop: 12259, Start Num: 10

Candidate Starts for Chargerpower_16:

(Start: 10 @11312 has 14 MA's), (19, 11363), (28, 11459), (31, 11501), (33, 11531), (35, 11555), (41, 11600), (45, 11651), (46, 11663), (66, 11819), (80, 11957), (94, 12044), (97, 12098), (104, 12149),

Gene: Charm_16 Start: 11056, Stop: 12024, Start Num: 5

Candidate Starts for Charm_16:

(Start: 5 @11056 has 300 MA's), (19, 11116), (28, 11212), (31, 11254), (33, 11284), (35, 11308), (41, 11353), (45, 11404), (47, 11434), (70, 11593), (79, 11689),

Gene: Chartreuse_19 Start: 12187, Stop: 13158, Start Num: 4

Candidate Starts for Chartreuse_19:

(Start: 4 @12187 has 70 MA's), (19, 12247), (28, 12343), (31, 12385), (33, 12415), (35, 12439), (41, 12484), (45, 12535), (46, 12547), (47, 12565), (63, 12670), (84, 12856), (113, 13129),

Gene: Che12_17 Start: 10931, Stop: 11893, Start Num: 5

Candidate Starts for Che12_17:

(Start: 5 @10931 has 300 MA's), (19, 10991), (27, 11081), (28, 11087), (31, 11129), (33, 11159), (35, 11183), (41, 11228), (45, 11279), (46, 11291), (47, 11309), (65, 11441), (70, 11468), (74, 11513), (94, 11672), (114, 11873),

Gene: ChipMunk_18 Start: 12560, Stop: 13516, Start Num: 5

Candidate Starts for ChipMunk_18:

(Start: 5 @12560 has 300 MA's), (19, 12620), (23, 12668), (28, 12716), (31, 12758), (33, 12788), (35, 12812), (41, 12857), (45, 12908), (47, 12938), (61, 13043), (65, 13070), (70, 13097), (74, 13142), (94, 13301), (95, 13319), (97, 13355), (104, 13406),

Gene: Chupacabra_15 Start: 11254, Stop: 12189, Start Num: 5

Candidate Starts for Chupacabra_15:

(Start: 5 @11254 has 300 MA's), (19, 11314), (28, 11410), (29, 11425), (31, 11452), (33, 11482), (35, 11506), (36, 11512), (41, 11551), (45, 11602), (47, 11632), (60, 11725), (73, 11812), (79, 11866), (80, 11887), (96, 11995), (97, 12028), (104, 12079), (108, 12115),

Gene: Cici_15 Start: 11482, Stop: 12414, Start Num: 5

Candidate Starts for Cici_15:

(Start: 5 @11482 has 300 MA's), (19, 11542), (28, 11638), (29, 11653), (33, 11710), (35, 11734), (45, 11830), (52, 11914), (75, 12058), (79, 12100), (97, 12262), (100, 12295), (108, 12349), (112, 12382),

Gene: Cindaradix_14 Start: 11201, Stop: 12133, Start Num: 5

Candidate Starts for Cindaradix_14:

(Start: 5 @11201 has 300 MA's), (19, 11261), (26, 11339), (28, 11357), (29, 11372), (33, 11429), (35, 11453), (45, 11549), (47, 11579), (52, 11633), (75, 11777), (79, 11819), (97, 11981), (104, 12032), (108, 12068), (112, 12101),

Gene: Cintron_15 Start: 11527, Stop: 12459, Start Num: 5

Candidate Starts for Cintron_15:

(Start: 5 @11527 has 300 MA's), (19, 11587), (28, 11683), (33, 11755), (35, 11779), (45, 11875), (47, 11905), (52, 11959), (75, 12103), (79, 12145), (97, 12307), (100, 12340), (104, 12358), (108, 12394), (112, 12427),

Gene: Citius_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Citius_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Clarenza_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Clarenza_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: CloudWang3_19 Start: 12218, Stop: 13189, Start Num: 4

Candidate Starts for CloudWang3_19:

(Start: 4 @12218 has 70 MA's), (19, 12278), (28, 12374), (31, 12416), (33, 12446), (35, 12470), (41, 12515), (45, 12566), (46, 12578), (47, 12596), (63, 12701), (84, 12887), (113, 13160),

Gene: Cocoaberry_15 Start: 11483, Stop: 12415, Start Num: 5

Candidate Starts for Cocoaberry_15:

(Start: 5 @11483 has 300 MA's), (19, 11543), (28, 11639), (33, 11711), (35, 11735), (45, 11831), (52, 11915), (75, 12059), (79, 12101), (97, 12263), (100, 12296), (104, 12314), (108, 12350), (112, 12383),

Gene: Colbster_17 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for Colbster_17:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: Colin_20 Start: 13838, Stop: 14809, Start Num: 1

Candidate Starts for Colin_20:

(Start: 1 @13838 has 2 MA's), (19, 13913), (25, 13982), (28, 14009), (31, 14051), (33, 14081), (35, 14105), (41, 14150), (45, 14201), (46, 14213), (47, 14231), (49, 14261), (61, 14336), (65, 14363), (74, 14435), (84, 14537), (94, 14594), (95, 14612), (97, 14648), (104, 14699),

Gene: Commander_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Commander_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Connomayer_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Connomayer_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Conquerage_17 Start: 12878, Stop: 13837, Start Num: 5

Candidate Starts for Conquerage_17:

(Start: 5 @12878 has 300 MA's), (19, 12938), (27, 13028), (28, 13034), (31, 13076), (33, 13106), (35, 13130), (41, 13175), (45, 13226), (46, 13238), (47, 13256), (63, 13379), (65, 13391), (94, 13622), (104, 13727),

Gene: Conspiracy_13 Start: 10617, Stop: 11546, Start Num: 13

Candidate Starts for Conspiracy_13:

(Start: 13 @10617 has 49 MA's), (28, 10746), (31, 10788), (33, 10818), (43, 10905), (45, 10938), (79, 11202), (81, 11226), (87, 11286), (94, 11325), (96, 11346), (98, 11394), (105, 11451), (110, 11487), (113, 11511),

Gene: Coog_13 Start: 10767, Stop: 11699, Start Num: 13

Candidate Starts for Coog_13:

(Start: 13 @10767 has 49 MA's), (28, 10896), (31, 10938), (33, 10968), (43, 11055), (45, 11088), (79, 11352), (81, 11376), (87, 11436), (94, 11475), (96, 11496), (98, 11544), (105, 11601), (110, 11637), (113, 11661),

Gene: Cookiedough_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Cookiedough_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: CosmicSans_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for CosmicSans_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Crucio_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for Crucio_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (35, 12359), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: Cuco_13 Start: 10798, Stop: 11730, Start Num: 13

Candidate Starts for Cuco_13:

(Start: 13 @10798 has 49 MA's), (28, 10927), (31, 10969), (33, 10999), (43, 11086), (45, 11119), (79, 11383), (81, 11407), (87, 11467), (94, 11506), (96, 11527), (98, 11575), (105, 11632), (110, 11668), (113, 11692),

Gene: Cullens_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Cullens_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: D29_17 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for D29_17:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: D32_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for D32_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: DBQu4n_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for DBQu4n_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: DaHudson_17 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for DaHudson_17:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: DaVinci_19 Start: 12241, Stop: 13212, Start Num: 4

Candidate Starts for DaVinci_19:

(Start: 4 @12241 has 70 MA's), (19, 12301), (28, 12397), (31, 12439), (33, 12469), (35, 12493), (41, 12538), (45, 12589), (46, 12601), (47, 12619), (63, 12724), (84, 12910), (113, 13183),

Gene: Daishi_16 Start: 10464, Stop: 11456, Start Num: 7

Candidate Starts for Daishi_16:

(Start: 7 @10464 has 112 MA's), (28, 10605), (39, 10725), (43, 10764), (45, 10797), (56, 10908), (70, 10995), (79, 11091), (86, 11172), (91, 11199), (94, 11211), (97, 11265), (102, 11310), (103, 11316), (105, 11349), (110, 11385), (113, 11409),

Gene: Dalmatian_16 Start: 12257, Stop: 13213, Start Num: 5

Candidate Starts for Dalmatian_16:

(Start: 5 @12257 has 300 MA's), (19, 12317), (25, 12386), (28, 12413), (31, 12455), (33, 12485), (35, 12509), (41, 12554), (45, 12605), (47, 12635), (61, 12740), (70, 12794), (94, 12998), (95, 13016), (97, 13052), (104, 13103),

Gene: Danforth_12 Start: 10360, Stop: 11310, Start Num: 13

Candidate Starts for Danforth_12:

(Start: 13 @10360 has 49 MA's), (28, 10489), (31, 10531), (43, 10648), (45, 10681), (50, 10756), (66, 10840), (77, 10930), (79, 10957), (83, 10990), (87, 11041), (94, 11080), (105, 11206), (110, 11242),

Gene: Darrell_18 Start: 13070, Stop: 14029, Start Num: 5

Candidate Starts for Darrell_18:

(Start: 5 @13070 has 300 MA's), (19, 13130), (27, 13220), (28, 13226), (31, 13268), (33, 13298), (35, 13322), (41, 13367), (45, 13418), (47, 13448), (57, 13532), (63, 13571), (65, 13583), (84, 13757), (94, 13814), (104, 13919),

Gene: DARTHPhader_17 Start: 13036, Stop: 13998, Start Num: 5

Candidate Starts for DARTHPhader_17:

(Start: 5 @13036 has 300 MA's), (19, 13096), (27, 13186), (28, 13192), (31, 13234), (33, 13264), (35, 13288), (41, 13333), (45, 13384), (47, 13414), (52, 13468), (63, 13540), (65, 13552), (70, 13579), (94, 13783), (104, 13888), (112, 13957),

Gene: Datway_15 Start: 11500, Stop: 12432, Start Num: 5

Candidate Starts for Datway_15:

(Start: 5 @11500 has 300 MA's), (19, 11560), (28, 11656), (29, 11671), (32, 11713), (33, 11728), (35, 11752), (45, 11848), (47, 11878), (52, 11932), (75, 12076), (79, 12118), (97, 12280), (104, 12331), (108, 12367), (112, 12400),

Gene: Deano_15 Start: 11487, Stop: 12419, Start Num: 5

Candidate Starts for Deano_15:

(Start: 5 @11487 has 300 MA's), (19, 11547), (28, 11643), (29, 11658), (33, 11715), (35, 11739), (45, 11835), (47, 11865), (52, 11919), (75, 12063), (79, 12105), (97, 12267), (100, 12300), (104, 12318), (108, 12354), (112, 12387),

Gene: DekHockey33_18 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for DekHockey33_18:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: Deloris_17 Start: 12587, Stop: 13543, Start Num: 5

Candidate Starts for Deloris_17:

(Start: 5 @12587 has 300 MA's), (15, 12611), (19, 12647), (28, 12743), (31, 12785), (33, 12815), (35, 12839), (41, 12884), (45, 12935), (46, 12947), (49, 12995), (65, 13097), (71, 13154), (97, 13382),

(104, 13433),

Gene: Dhanush_15 Start: 11482, Stop: 12414, Start Num: 5

Candidate Starts for Dhanush_15:

(Start: 5 @11482 has 300 MA's), (19, 11542), (28, 11638), (33, 11710), (35, 11734), (45, 11830), (52, 11914), (75, 12058), (79, 12100), (97, 12262), (100, 12295), (104, 12313), (108, 12349), (112, 12382),

Gene: Dieselweasel_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for Dieselweasel_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: Dignity_18 Start: 12569, Stop: 13525, Start Num: 5

Candidate Starts for Dignity_18:

(Start: 5 @12569 has 300 MA's), (19, 12629), (23, 12677), (25, 12698), (28, 12725), (31, 12767), (33, 12797), (35, 12821), (45, 12917), (46, 12929), (61, 13052), (65, 13079), (70, 13106), (74, 13151), (94, 13310), (95, 13328), (97, 13364), (104, 13415),

Gene: Dinger_12 Start: 7697, Stop: 8599, Start Num: 14

Candidate Starts for Dinger_12:

(Start: 14 @7697 has 36 MA's), (28, 7826), (36, 7928), (42, 7970), (43, 7985), (45, 8018), (77, 8273), (83, 8333), (85, 8366),

Gene: DirtyDunning_15 Start: 11475, Stop: 12407, Start Num: 5

Candidate Starts for DirtyDunning_15:

(Start: 5 @11475 has 300 MA's), (19, 11535), (28, 11631), (33, 11703), (35, 11727), (45, 11823), (47, 11853), (52, 11907), (75, 12051), (79, 12093), (97, 12255), (100, 12288), (104, 12306), (108, 12342), (112, 12375),

Gene: Discoknowium_13 Start: 10907, Stop: 11836, Start Num: 13

Candidate Starts for Discoknowium_13:

(Start: 13 @10907 has 49 MA's), (28, 11036), (31, 11078), (33, 11108), (43, 11195), (45, 11228), (79, 11492), (81, 11516), (87, 11576), (94, 11615), (96, 11636), (98, 11684), (105, 11741), (110, 11777), (113, 11801),

Gene: Dixon_13 Start: 10379, Stop: 11329, Start Num: 13

Candidate Starts for Dixon_13:

(Start: 13 @10379 has 49 MA's), (28, 10508), (31, 10550), (43, 10667), (45, 10700), (50, 10775), (66, 10859), (77, 10949), (79, 10976), (83, 11009), (87, 11060), (94, 11099), (105, 11225), (110, 11261),

Gene: Dorothea_18 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for Dorothea_18:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: Drake55_18 Start: 12670, Stop: 13626, Start Num: 5

Candidate Starts for Drake55_18:

(Start: 5 @12670 has 300 MA's), (11, 12685), (19, 12730), (28, 12826), (31, 12868), (33, 12898), (35, 12922), (41, 12967), (45, 13018), (47, 13048), (61, 13153), (65, 13180), (70, 13207), (74, 13252), (94, 13411), (95, 13429), (97, 13465), (104, 13516),

Gene: Drake94_14 Start: 9354, Stop: 10286, Start Num: 5

Candidate Starts for Drake94_14:

(Start: 5 @9354 has 300 MA's), (19, 9414), (26, 9492), (28, 9510), (29, 9525), (31, 9552), (33, 9582), (35, 9606), (41, 9651), (45, 9702), (66, 9852), (68, 9867), (73, 9915), (79, 9969), (104, 10182), (108, 10218), (109, 10236), (112, 10251),

Gene: DreamTeam1_16 Start: 11056, Stop: 12024, Start Num: 5

Candidate Starts for DreamTeam1_16:

(Start: 5 @11056 has 300 MA's), (19, 11116), (28, 11212), (31, 11254), (33, 11284), (35, 11308), (41, 11353), (45, 11404), (47, 11434), (70, 11593), (79, 11689),

Gene: DroogsArmy_16 Start: 12816, Stop: 13775, Start Num: 5

Candidate Starts for DroogsArmy_16:

(Start: 5 @12816 has 300 MA's), (19, 12876), (25, 12945), (28, 12972), (29, 12987), (33, 13044), (36, 13074), (45, 13164), (68, 13350), (79, 13452), (97, 13626), (104, 13677), (108, 13713),

Gene: Druantia_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Druantia_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Dublin_12 Start: 10766, Stop: 11698, Start Num: 13

Candidate Starts for Dublin_12:

(Start: 13 @10766 has 49 MA's), (28, 10895), (31, 10937), (33, 10967), (43, 11054), (45, 11087), (69, 11252), (79, 11351), (81, 11375), (87, 11435), (94, 11474), (96, 11495), (98, 11543), (105, 11600), (110, 11636), (113, 11660),

Gene: DudeLittle_16 Start: 12259, Stop: 13215, Start Num: 5

Candidate Starts for DudeLittle_16:

(Start: 5 @12259 has 300 MA's), (19, 12319), (25, 12388), (28, 12415), (31, 12457), (33, 12487), (35, 12511), (41, 12556), (45, 12607), (47, 12637), (61, 12742), (70, 12796), (94, 13000), (95, 13018), (97, 13054), (104, 13105),

Gene: Duplo_19 Start: 12128, Stop: 13084, Start Num: 4

Candidate Starts for Duplo_19:

(Start: 4 @12128 has 70 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (48, 12527), (63, 12614), (65, 12626), (66, 12632), (70, 12653), (87, 12833), (94, 12857), (97, 12911), (114, 13058),

Gene: EZMoney23_20 Start: 14135, Stop: 15100, Start Num: 5

Candidate Starts for EZMoney23_20:

(Start: 5 @14135 has 300 MA's), (19, 14195), (28, 14291), (31, 14333), (33, 14363), (35, 14387), (41, 14432), (45, 14483), (57, 14597), (70, 14675), (74, 14720), (84, 14822), (94, 14879), (95, 14897), (97, 14933), (104, 14984), (114, 15080),

Gene: Eagle_14 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Eagle_14:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: EagleEye_18 Start: 12405, Stop: 13361, Start Num: 5

Candidate Starts for EagleEye_18:

(Start: 5 @12405 has 300 MA's), (19, 12465), (27, 12555), (28, 12561), (31, 12603), (33, 12633), (35, 12657), (41, 12702), (45, 12753), (47, 12783), (52, 12837), (63, 12903), (109, 13305),

Gene: Eaglepride_16 Start: 11253, Stop: 12191, Start Num: 5

Candidate Starts for Eaglepride_16:

(Start: 5 @11253 has 300 MA's), (19, 11313), (26, 11391), (28, 11409), (29, 11424), (31, 11451), (33, 11481), (35, 11505), (36, 11511), (45, 11601), (47, 11631), (53, 11691), (73, 11814), (79, 11868), (97, 12030), (104, 12081), (108, 12117),

Gene: Eapen_15 Start: 11481, Stop: 12413, Start Num: 5

Candidate Starts for Eapen_15:

(Start: 5 @11481 has 300 MA's), (19, 11541), (28, 11637), (33, 11709), (35, 11733), (45, 11829), (52, 11913), (75, 12057), (79, 12099), (97, 12261), (100, 12294), (104, 12312), (108, 12348), (112, 12381),

Gene: Ebony_16 Start: 12757, Stop: 13737, Start Num: 4

Candidate Starts for Ebony_16:

(Start: 4 @12757 has 70 MA's), (19, 12817), (22, 12847), (27, 12907), (28, 12913), (31, 12955), (33, 12985), (35, 13009), (41, 13054), (45, 13105), (46, 13117), (47, 13135), (57, 13219), (63, 13255), (65, 13267), (70, 13294), (97, 13552), (109, 13657),

Gene: Echild_16 Start: 12262, Stop: 13218, Start Num: 5

Candidate Starts for Echild_16:

(Start: 5 @12262 has 300 MA's), (19, 12322), (23, 12370), (25, 12391), (28, 12418), (31, 12460), (33, 12490), (41, 12559), (45, 12610), (61, 12745), (74, 12844), (95, 13021), (97, 13057), (104, 13108),

Gene: Edison31_14 Start: 11282, Stop: 12223, Start Num: 5

Candidate Starts for Edison31_14:

(Start: 5 @11282 has 300 MA's), (19, 11342), (26, 11420), (28, 11438), (29, 11453), (31, 11480), (33, 11510), (35, 11534), (45, 11630), (46, 11642), (47, 11660), (56, 11735), (60, 11756), (73, 11843), (79, 11897), (96, 12026), (97, 12059), (104, 12110), (108, 12146),

Gene: Eidsmoe_17 Start: 12878, Stop: 13837, Start Num: 5

Candidate Starts for Eidsmoe_17:

(Start: 5 @12878 has 300 MA's), (19, 12938), (27, 13028), (28, 13034), (31, 13076), (33, 13106), (35, 13130), (41, 13175), (45, 13226), (46, 13238), (47, 13256), (63, 13379), (65, 13391), (94, 13622), (104, 13727),

Gene: EITiger69_13 Start: 10628, Stop: 11569, Start Num: 13

Candidate Starts for EITiger69_13:

(Start: 13 @10628 has 49 MA's), (28, 10757), (33, 10829), (43, 10916), (45, 10949), (65, 11090), (79, 11213), (81, 11237), (87, 11297), (94, 11336), (96, 11357), (98, 11405), (105, 11462), (110, 11498), (113, 11522),

Gene: Elephantoon_17 Start: 12496, Stop: 13455, Start Num: 5

Candidate Starts for Elephantoon_17:

(Start: 5 @12496 has 300 MA's), (19, 12556), (27, 12646), (28, 12652), (31, 12694), (33, 12724), (35, 12748), (41, 12793), (45, 12844), (47, 12874), (63, 12997), (65, 13009), (84, 13183), (94, 13240), (104, 13345),

Gene: EmyBug_15 Start: 12878, Stop: 13837, Start Num: 5

Candidate Starts for EmyBug_15:

(Start: 5 @12878 has 300 MA's), (19, 12938), (27, 13028), (28, 13034), (31, 13076), (33, 13106), (35, 13130), (41, 13175), (45, 13226), (46, 13238), (47, 13256), (63, 13379), (65, 13391), (94, 13622), (104, 13727),

Gene: EpicPhail_17 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for EpicPhail_17:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: Epsocamisio_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for Epsocamisio_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Equemioh13_18 Start: 12655, Stop: 13611, Start Num: 5

Candidate Starts for Equemioh13_18:

(Start: 5 @12655 has 300 MA's), (19, 12715), (25, 12784), (28, 12811), (31, 12853), (33, 12883), (35, 12907), (41, 12952), (45, 13003), (46, 13015), (61, 13138), (65, 13165), (70, 13192), (74, 13237), (94, 13396), (95, 13414), (97, 13450), (104, 13501),

Gene: EricB_19 Start: 12231, Stop: 13202, Start Num: 4

Candidate Starts for EricB_19:

(Start: 4 @12231 has 70 MA's), (19, 12291), (28, 12387), (31, 12429), (33, 12459), (35, 12483), (41, 12528), (45, 12579), (46, 12591), (47, 12609), (63, 12714), (84, 12900), (113, 13173),

Gene: Erik_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Erik_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Eris_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Eris_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Eros_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Eros_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (47, 11857), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Espica_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Espica_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Et2Brutus_15 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Et2Brutus_15:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: Eurydice_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Eurydice_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: EvilGenius_18 Start: 12570, Stop: 13526, Start Num: 5

Candidate Starts for EvilGenius_18:

(Start: 5 @12570 has 300 MA's), (19, 12630), (23, 12678), (28, 12726), (31, 12768), (33, 12798), (35, 12822), (41, 12867), (45, 12918), (47, 12948), (61, 13053), (65, 13080), (70, 13107), (74, 13152), (94, 13311), (95, 13329), (97, 13365), (104, 13416),

Gene: Expelliarmus_12 Start: 10346, Stop: 11296, Start Num: 13

Candidate Starts for Expelliarmus_12:

(Start: 13 @10346 has 49 MA's), (28, 10475), (31, 10517), (43, 10634), (45, 10667), (50, 10742), (66, 10826), (77, 10916), (79, 10943), (83, 10976), (87, 11027), (94, 11066), (105, 11192), (110, 11228),

Gene: ExplosioNervosa_17 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for ExplosioNervosa_17:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: Fameo_16 Start: 12175, Stop: 13140, Start Num: 5

Candidate Starts for Fameo_16:

(Start: 5 @12175 has 300 MA's), (19, 12235), (25, 12304), (28, 12331), (31, 12373), (33, 12403), (35, 12427), (41, 12472), (45, 12523), (57, 12637), (65, 12694), (70, 12721), (74, 12766), (94, 12925), (95, 12943), (97, 12979), (104, 13030),

Gene: Farber_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for Farber_17:

(Start: 7 @11532 has 112 MA's), (27, 11667), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384), (105, 12417), (110, 12453), (113, 12477),

Gene: Fayely_17 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for Fayely_17:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: Fernando_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Fernando_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Fibonacci_16 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Fibonacci_16:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: FiringLine_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for FiringLine_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: First_0016 Start: 12180, Stop: 13136, Start Num: 5

Candidate Starts for First_0016:

(Start: 5 @12180 has 300 MA's), (15, 12204), (19, 12240), (28, 12336), (31, 12378), (33, 12408), (35, 12432), (41, 12477), (45, 12528), (46, 12540), (49, 12588), (65, 12690), (71, 12747), (97, 12975), (104, 13026),

Gene: Flare16_16 Start: 12213, Stop: 13169, Start Num: 5

Candidate Starts for Flare16_16:

(Start: 5 @12213 has 300 MA's), (19, 12273), (25, 12342), (28, 12369), (31, 12411), (33, 12441), (35, 12465), (41, 12510), (45, 12561), (46, 12573), (61, 12696), (65, 12723), (70, 12750), (74, 12795), (94, 12954), (95, 12972), (97, 13008), (104, 13059),

Gene: Flaverint_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Flaverint_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: Florean_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Florean_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Flux_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Flux_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: ForGetIt_13 Start: 10643, Stop: 11572, Start Num: 13

Candidate Starts for ForGetIt_13:

(Start: 13 @10643 has 49 MA's), (28, 10772), (31, 10814), (33, 10844), (43, 10931), (45, 10964), (79, 11228), (81, 11252), (87, 11312), (94, 11351), (96, 11372), (98, 11420), (105, 11477), (110, 11513), (113, 11537),

Gene: Fred313_15 Start: 10808, Stop: 11803, Start Num: 7

Candidate Starts for Fred313_15:

(Start: 7 @10808 has 112 MA's), (12, 10823), (28, 10955), (39, 11075), (43, 11114), (45, 11147), (56, 11258), (57, 11267), (73, 11384), (79, 11438), (87, 11522), (91, 11546), (94, 11558), (97, 11612), (103, 11663), (105, 11696), (110, 11732),

Gene: Funston_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Funston_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Gadost_15 Start: 11483, Stop: 12415, Start Num: 5

Candidate Starts for Gadost_15:

(Start: 5 @11483 has 300 MA's), (19, 11543), (28, 11639), (33, 11711), (35, 11735), (45, 11831), (52, 11915), (75, 12059), (79, 12101), (97, 12263), (100, 12296), (104, 12314), (108, 12350), (112, 12383),

Gene: Gail_15 Start: 11224, Stop: 12171, Start Num: 10

Candidate Starts for Gail_15:

(Start: 10 @11224 has 14 MA's), (19, 11275), (28, 11371), (31, 11413), (33, 11443), (38, 11482), (41, 11512), (45, 11563), (94, 11956), (97, 12010), (104, 12061),

Gene: Garak_20 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Garak_20:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904), (113, 13177),

Gene: GaugeLDP_18 Start: 13484, Stop: 14458, Start Num: 1

Candidate Starts for GaugeLDP_18:

(Start: 1 @13484 has 2 MA's), (Start: 14 @13523 has 36 MA's), (19, 13559), (28, 13655), (31, 13697), (33, 13727), (35, 13751), (41, 13796), (45, 13847), (47, 13877), (52, 13931), (70, 14036), (79, 14132), (81, 14156), (104, 14348), (105, 14369),

Gene: Gemma_17 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Gemma_17:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: George_12 Start: 10799, Stop: 11731, Start Num: 13

Candidate Starts for George_12:

(Start: 13 @10799 has 49 MA's), (28, 10928), (31, 10970), (33, 11000), (43, 11087), (45, 11120), (79, 11384), (81, 11408), (87, 11468), (94, 11507), (96, 11528), (98, 11576), (105, 11633), (110, 11669), (113, 11693),

Gene: Georgie2_17 Start: 12108, Stop: 13064, Start Num: 5

Candidate Starts for Georgie2_17:

(Start: 5 @12108 has 300 MA's), (19, 12168), (25, 12237), (28, 12264), (31, 12306), (33, 12336), (41, 12405), (45, 12456), (47, 12486), (61, 12591), (70, 12645), (94, 12849), (95, 12867), (97, 12903), (104, 12954),

Gene: Ghouboy_13 Start: 10876, Stop: 11808, Start Num: 13

Candidate Starts for Ghouboy_13:

(Start: 13 @10876 has 49 MA's), (28, 11005), (31, 11047), (33, 11077), (43, 11164), (45, 11197), (65, 11338), (79, 11461), (81, 11485), (87, 11545), (94, 11584), (96, 11605), (98, 11653), (105, 11710), (110, 11746), (113, 11770),

Gene: Gilberta_16 Start: 12696, Stop: 13685, Start Num: 4

Candidate Starts for Gilberta_16:

(Start: 4 @12696 has 70 MA's), (19, 12756), (22, 12786), (27, 12846), (28, 12852), (31, 12894), (33, 12924), (35, 12948), (41, 12993), (45, 13044), (46, 13056), (47, 13074), (57, 13158), (63, 13194), (65, 13206), (70, 13233), (97, 13491), (109, 13596),

Gene: GingkoMaracino_17 Start: 11425, Stop: 12417, Start Num: 7

Candidate Starts for GingkoMaracino_17:

(Start: 7 @11425 has 112 MA's), (28, 11566), (39, 11686), (43, 11725), (45, 11758), (56, 11869), (70, 11956), (79, 12052), (86, 12133), (91, 12160), (94, 12172), (97, 12226), (102, 12271), (103, 12277), (105, 12310), (110, 12346), (113, 12370),

Gene: Giroux_15 Start: 11103, Stop: 12077, Start Num: 7

Candidate Starts for Giroux_15:

(Start: 7 @11103 has 112 MA's), (28, 11244), (39, 11364), (43, 11403), (45, 11436), (73, 11673), (77, 11700), (79, 11727), (87, 11811), (97, 11901), (102, 11946), (103, 11952), (105, 11985), (110, 12021),

Gene: Gladiator_19 Start: 12209, Stop: 13180, Start Num: 4

Candidate Starts for Gladiator_19:

(Start: 4 @12209 has 70 MA's), (19, 12269), (28, 12365), (31, 12407), (33, 12437), (35, 12461), (41, 12506), (45, 12557), (46, 12569), (47, 12587), (63, 12692),

Gene: Gollum_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Gollum_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Goose_15 Start: 11255, Stop: 12190, Start Num: 5

Candidate Starts for Goose_15:

(Start: 5 @11255 has 300 MA's), (19, 11315), (28, 11411), (29, 11426), (31, 11453), (33, 11483), (35, 11507), (36, 11513), (41, 11552), (45, 11603), (47, 11633), (60, 11726), (73, 11813), (79, 11867), (80, 11888), (96, 11996), (97, 12029), (104, 12080), (108, 12116),

Gene: GreedyLawyer_19 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for GreedyLawyer_19:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: Grif_17 Start: 11622, Stop: 12614, Start Num: 7

Candidate Starts for Grif_17:

(Start: 7 @11622 has 112 MA's), (28, 11763), (39, 11883), (43, 11922), (45, 11955), (56, 12066), (70, 12153), (79, 12249), (86, 12330), (91, 12357), (94, 12369), (97, 12423), (102, 12468), (103, 12474), (105, 12507), (110, 12543), (113, 12567),

Gene: Groundhog_12 Start: 10347, Stop: 11297, Start Num: 13

Candidate Starts for Groundhog_12:

(Start: 13 @10347 has 49 MA's), (28, 10476), (31, 10518), (43, 10635), (45, 10668), (50, 10743), (66, 10827), (77, 10917), (79, 10944), (83, 10977), (87, 11028), (94, 11067), (105, 11193), (110, 11229),

Gene: Groupthink_18 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Groupthink_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: Grub_17 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for Grub_17:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: Grum1_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for Grum1_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384), (105, 12417), (110, 12453), (113, 12477),

Gene: Gruunaga_19 Start: 12209, Stop: 13180, Start Num: 4

Candidate Starts for Gruunaga_19:

(Start: 4 @12209 has 70 MA's), (19, 12269), (28, 12365), (31, 12407), (33, 12437), (35, 12461), (41, 12506), (45, 12557), (46, 12569), (47, 12587), (63, 12692),

Gene: GtownJaz_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for GtownJaz_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: HINdeR_15 Start: 12923, Stop: 13882, Start Num: 5

Candidate Starts for HINdeR_15:

(Start: 5 @12923 has 300 MA's), (19, 12983), (28, 13079), (29, 13094), (33, 13151), (36, 13181), (45, 13271), (68, 13457), (79, 13559), (96, 13700), (104, 13784), (108, 13820),

Gene: HamSlice_14 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for HamSlice_14:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Hammer_19 Start: 12209, Stop: 13195, Start Num: 2

Candidate Starts for Hammer_19:

(Start: 2 @12209 has 1 MA's), (9, 12233), (15, 12248), (19, 12284), (28, 12380), (31, 12422), (33, 12452), (35, 12476), (41, 12521), (45, 12572), (46, 12584), (47, 12602), (63, 12707),

Gene: Happiness_15 Start: 11485, Stop: 12417, Start Num: 5

Candidate Starts for Happiness_15:

(Start: 5 @11485 has 300 MA's), (19, 11545), (28, 11641), (29, 11656), (33, 11713), (35, 11737), (45, 11833), (47, 11863), (52, 11917), (75, 12061), (79, 12103), (97, 12265), (100, 12298), (104, 12316), (108, 12352), (112, 12385),

Gene: Harlequin_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Harlequin_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: HarryHoudini_18 Start: 12670, Stop: 13626, Start Num: 5

Candidate Starts for HarryHoudini_18:

(Start: 5 @12670 has 300 MA's), (11, 12685), (19, 12730), (28, 12826), (31, 12868), (33, 12898), (35, 12922), (41, 12967), (45, 13018), (47, 13048), (61, 13153), (65, 13180), (70, 13207), (74, 13252), (94, 13411), (95, 13429), (97, 13465), (104, 13516),

Gene: HashRod_18 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for HashRod_18:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475), (105, 12508), (110, 12544), (113, 12568),

Gene: HaveUMetTed_18 Start: 11610, Stop: 12602, Start Num: 7

Candidate Starts for HaveUMetTed_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531),

(113, 12555),

Gene: Heathen_15 Start: 10904, Stop: 11878, Start Num: 7

Candidate Starts for Heathen_15:

(Start: 7 @10904 has 112 MA's), (28, 11045), (39, 11165), (43, 11204), (45, 11237), (73, 11474), (77, 11501), (79, 11528), (87, 11612), (97, 11702), (102, 11747), (103, 11753), (105, 11786), (110, 11822),

Gene: Heffalump_18 Start: 13977, Stop: 14942, Start Num: 5

Candidate Starts for Heffalump_18:

(Start: 5 @13977 has 300 MA's), (19, 14037), (25, 14106), (28, 14133), (31, 14175), (33, 14205), (35, 14229), (41, 14274), (45, 14325), (57, 14439), (65, 14496), (70, 14523), (74, 14568), (94, 14727), (95, 14745), (97, 14781), (101, 14820),

Gene: HelDan_15 Start: 11156, Stop: 12130, Start Num: 7

Candidate Starts for HelDan_15:

(Start: 7 @11156 has 112 MA's), (28, 11297), (39, 11417), (43, 11456), (45, 11489), (73, 11726), (77, 11753), (79, 11780), (87, 11864), (97, 11954), (102, 11999), (103, 12005), (105, 12038), (110, 12074),

Gene: Heliosoles_17 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Heliosoles_17:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: Helmet_20 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Helmet_20:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904), (113, 13177),

Gene: Herbertwm_14 Start: 11015, Stop: 11998, Start Num: 4

Candidate Starts for Herbertwm_14:

(Start: 4 @11015 has 70 MA's), (19, 11075), (21, 11102), (27, 11165), (28, 11171), (31, 11213), (33, 11243), (35, 11267), (41, 11312), (45, 11363), (46, 11375), (57, 11477), (63, 11507), (65, 11519), (70, 11546), (84, 11693), (104, 11888), (111, 11948),

Gene: Hercules11_17 Start: 11546, Stop: 12538, Start Num: 7

Candidate Starts for Hercules11_17:

(Start: 7 @11546 has 112 MA's), (28, 11687), (39, 11807), (43, 11846), (45, 11879), (56, 11990), (70, 12077), (79, 12173), (86, 12254), (91, 12281), (94, 12293), (97, 12347), (102, 12392), (103, 12398), (105, 12431), (110, 12467), (113, 12491),

Gene: Hexamo_19 Start: 12190, Stop: 13161, Start Num: 4

Candidate Starts for Hexamo_19:

(Start: 4 @12190 has 70 MA's), (19, 12250), (28, 12346), (31, 12388), (33, 12418), (35, 12442), (41, 12487), (45, 12538), (46, 12550), (47, 12568), (63, 12673), (84, 12859), (113, 13132),

Gene: Hiro_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Hiro_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: Holli_15 Start: 11272, Stop: 12204, Start Num: 5

Candidate Starts for Holli_15:

(Start: 5 @11272 has 300 MA's), (19, 11332), (28, 11428), (33, 11500), (35, 11524), (45, 11620), (52, 11704), (75, 11848), (79, 11890), (97, 12052), (100, 12085), (104, 12103), (108, 12139), (112, 12172),

Gene: Hookmount_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Hookmount_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Hoot_19 Start: 12219, Stop: 13190, Start Num: 4

Candidate Starts for Hoot_19:

(Start: 4 @12219 has 70 MA's), (19, 12279), (28, 12375), (31, 12417), (33, 12447), (35, 12471), (41, 12516), (45, 12567), (46, 12579), (47, 12597), (63, 12702), (84, 12888), (113, 13161),

Gene: HortumSL17_17 Start: 12848, Stop: 13807, Start Num: 5

Candidate Starts for HortumSL17_17:

(Start: 5 @12848 has 300 MA's), (19, 12908), (27, 12998), (28, 13004), (31, 13046), (33, 13076), (35, 13100), (41, 13145), (45, 13196), (46, 13208), (47, 13226), (63, 13349), (65, 13361), (94, 13592), (104, 13697),

Gene: Houdini22_15 Start: 11483, Stop: 12415, Start Num: 5

Candidate Starts for Houdini22_15:

(Start: 5 @11483 has 300 MA's), (19, 11543), (28, 11639), (33, 11711), (35, 11735), (45, 11831), (52, 11915), (75, 12059), (79, 12101), (97, 12263), (100, 12296), (104, 12314), (108, 12350), (112, 12383),

Gene: HuhtaEnerson15_13 Start: 10799, Stop: 11731, Start Num: 13

Candidate Starts for HuhtaEnerson15_13:

(Start: 13 @10799 has 49 MA's), (28, 10928), (31, 10970), (33, 11000), (43, 11087), (45, 11120), (79, 11384), (81, 11408), (87, 11468), (94, 11507), (96, 11528), (98, 11576), (105, 11633), (110, 11669), (113, 11693),

Gene: Hum25_6 Start: 5020, Stop: 5922, Start Num: 17

Candidate Starts for Hum25_6:

(17, 5020), (24, 5116), (27, 5140), (35, 5242), (38, 5257), (41, 5287), (55, 5440), (63, 5479), (70, 5515), (97, 5779), (99, 5797),

Gene: Hutc2_16 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Hutc2_16:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: ICleared_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for ICleared_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (29, 11651), (33, 11708), (35, 11732), (45, 11828), (47, 11858), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Iceman_15 Start: 11481, Stop: 12413, Start Num: 5

Candidate Starts for Iceman_15:

(Start: 5 @11481 has 300 MA's), (19, 11541), (28, 11637), (29, 11652), (33, 11709), (35, 11733), (45, 11829), (47, 11859), (52, 11913), (75, 12057), (79, 12099), (97, 12261), (100, 12294), (104, 12312), (108, 12348), (112, 12381),

Gene: Idleandcovert_15 Start: 11103, Stop: 12077, Start Num: 7

Candidate Starts for Idleandcovert_15:

(Start: 7 @11103 has 112 MA's), (28, 11244), (39, 11364), (43, 11403), (45, 11436), (73, 11673), (77, 11700), (79, 11727), (87, 11811), (97, 11901), (102, 11946), (103, 11952), (105, 11985), (110, 12021),

Gene: Indra_19 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Indra_19:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904), (113, 13177),

Gene: Insomnia_15 Start: 12751, Stop: 13740, Start Num: 4

Candidate Starts for Insomnia_15:

(Start: 4 @12751 has 70 MA's), (19, 12811), (22, 12841), (27, 12901), (28, 12907), (31, 12949), (33, 12979), (35, 13003), (41, 13048), (45, 13099), (46, 13111), (47, 13129), (57, 13213), (63, 13249), (65, 13261), (70, 13288), (97, 13546), (109, 13651),

Gene: Iracema64_15 Start: 11457, Stop: 12389, Start Num: 5

Candidate Starts for Iracema64_15:

(Start: 5 @11457 has 300 MA's), (19, 11517), (28, 11613), (29, 11628), (33, 11685), (35, 11709), (45, 11805), (47, 11835), (52, 11889), (75, 12033), (79, 12075), (97, 12237), (100, 12270), (104, 12288), (108, 12324), (112, 12357),

Gene: IronMan_18 Start: 13861, Stop: 14817, Start Num: 5

Candidate Starts for IronMan_18:

(Start: 5 @13861 has 300 MA's), (19, 13921), (25, 13990), (28, 14017), (31, 14059), (33, 14089), (35, 14113), (41, 14158), (45, 14209), (47, 14239), (65, 14371), (94, 14602), (97, 14656),

Gene: Isca_15 Start: 10978, Stop: 11982, Start Num: 7

Candidate Starts for Isca_15:

(Start: 7 @10978 has 112 MA's), (28, 11125), (39, 11245), (43, 11284), (45, 11317), (56, 11428), (57, 11437), (62, 11464), (73, 11554), (79, 11608), (87, 11692), (97, 11782), (103, 11833), (105, 11866), (110, 11902), (117, 11959),

Gene: Isiphiwo_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Isiphiwo_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: Iwokeuplikedis_16 Start: 11914, Stop: 12870, Start Num: 5

Candidate Starts for Iwokeuplikedis_16:

(Start: 5 @11914 has 300 MA's), (19, 11974), (25, 12043), (28, 12070), (31, 12112), (33, 12142), (35, 12166), (41, 12211), (45, 12262), (46, 12274), (47, 12292), (61, 12397), (65, 12424), (70, 12451), (74, 12496), (84, 12598), (94, 12655), (95, 12673), (104, 12760),

Gene: JF2_15 Start: 10746, Stop: 11738, Start Num: 7

Candidate Starts for JF2_15:

(Start: 7 @10746 has 112 MA's), (12, 10755), (28, 10887), (39, 11007), (43, 11046), (45, 11079), (56, 11190), (57, 11199), (73, 11316), (79, 11370), (87, 11454), (97, 11544), (103, 11595), (105, 11628), (110, 11664),

Gene: JF4_15 Start: 10746, Stop: 11738, Start Num: 7

Candidate Starts for JF4_15:

(Start: 7 @10746 has 112 MA's), (12, 10755), (28, 10887), (39, 11007), (43, 11046), (45, 11079), (56, 11190), (57, 11199), (73, 11316), (79, 11370), (87, 11454), (97, 11544), (103, 11595), (105, 11628), (110, 11664),

Gene: JHC117_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for JHC117_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: JSwag_18 Start: 11281, Stop: 12231, Start Num: 5

Candidate Starts for JSwag_18:

(Start: 5 @11281 has 300 MA's), (19, 11341), (28, 11437), (33, 11509), (35, 11533), (41, 11578), (45, 11629), (47, 11659), (96, 12037), (108, 12157), (113, 12202),

Gene: Jaan_19 Start: 14251, Stop: 15207, Start Num: 5

Candidate Starts for Jaan_19:

(Start: 5 @14251 has 300 MA's), (19, 14311), (25, 14380), (28, 14407), (31, 14449), (33, 14479), (35, 14503), (41, 14548), (45, 14599), (47, 14629), (65, 14761), (71, 14818), (94, 14992), (97, 15046),

Gene: Jabiru_13 Start: 10679, Stop: 11620, Start Num: 13

Candidate Starts for Jabiru_13:

(Start: 13 @10679 has 49 MA's), (28, 10808), (33, 10880), (43, 10967), (45, 11000), (47, 11030), (65, 11141), (79, 11264), (81, 11288), (87, 11348), (94, 11387), (96, 11408), (98, 11456), (105, 11513), (110, 11549), (113, 11573),

Gene: Jabith_16 Start: 12751, Stop: 13740, Start Num: 4

Candidate Starts for Jabith_16:

(Start: 4 @12751 has 70 MA's), (19, 12811), (22, 12841), (27, 12901), (28, 12907), (31, 12949), (33, 12979), (35, 13003), (41, 13048), (45, 13099), (46, 13111), (47, 13129), (57, 13213), (63, 13249), (65, 13261), (70, 13288), (97, 13546), (109, 13651),

Gene: Jaykayelowell_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Jaykayelowell_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Jeeves_15 Start: 11236, Stop: 12183, Start Num: 10

Candidate Starts for Jeeves_15:

(Start: 10 @11236 has 14 MA's), (19, 11287), (28, 11383), (29, 11398), (31, 11425), (33, 11455), (41, 11524), (45, 11575), (46, 11587), (66, 11743), (81, 11884), (94, 11968), (97, 12022),

Gene: Jeffabunny_19 Start: 12243, Stop: 13214, Start Num: 4

Candidate Starts for Jeffabunny_19:

(Start: 4 @12243 has 70 MA's), (19, 12303), (28, 12399), (31, 12441), (33, 12471), (35, 12495), (41, 12540), (45, 12591), (46, 12603), (47, 12621), (63, 12726), (84, 12912),

Gene: JenCasNa_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for JenCasNa_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: JeppNRM_18 Start: 11608, Stop: 12606, Start Num: 7

Candidate Starts for JeppNRM_18:

(Start: 7 @11608 has 112 MA's), (28, 11749), (39, 11869), (43, 11908), (45, 11941), (70, 12139), (77, 12208), (79, 12235), (86, 12316), (97, 12409), (102, 12454), (103, 12460), (105, 12493), (110, 12529), (113, 12553),

Gene: Jerm_18 Start: 12585, Stop: 13541, Start Num: 5

Candidate Starts for Jerm_18:

(Start: 5 @12585 has 300 MA's), (19, 12645), (23, 12693), (25, 12714), (28, 12741), (31, 12783), (33, 12813), (35, 12837), (45, 12933), (46, 12945), (61, 13068), (65, 13095), (70, 13122), (74, 13167), (94, 13326), (95, 13344), (97, 13380), (104, 13431),

Gene: Jester_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Jester_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: JetBlade_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for JetBlade_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: JewelBug_19 Start: 12241, Stop: 13212, Start Num: 4

Candidate Starts for JewelBug_19:

(Start: 4 @12241 has 70 MA's), (19, 12301), (28, 12397), (31, 12439), (33, 12469), (35, 12493), (41, 12538), (45, 12589), (46, 12601), (47, 12619), (63, 12724), (84, 12910), (113, 13183),

Gene: Jobu08_17 Start: 11608, Stop: 12600, Start Num: 7

Candidate Starts for Jobu08_17:

(Start: 7 @11608 has 112 MA's), (28, 11749), (39, 11869), (43, 11908), (45, 11941), (56, 12052), (70, 12139), (79, 12235), (86, 12316), (91, 12343), (94, 12355), (97, 12409), (102, 12454), (103, 12460), (105, 12493), (110, 12529), (113, 12553),

Gene: JoongJeon_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for JoongJeon_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Jordennis_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Jordennis_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: Joselito_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Joselito_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: JoshKayV_18 Start: 12589, Stop: 13545, Start Num: 5

Candidate Starts for JoshKayV_18:

(Start: 5 @12589 has 300 MA's), (11, 12604), (19, 12649), (23, 12697), (25, 12718), (28, 12745), (31, 12787), (33, 12817), (35, 12841), (41, 12886), (45, 12937), (46, 12949), (47, 12967), (61, 13072), (65,

13099), (94, 13330),

Gene: Journey13_14 Start: 11269, Stop: 12270, Start Num: 5

Candidate Starts for Journey13_14:

(Start: 5 @11269 has 300 MA's), (19, 11329), (28, 11425), (31, 11467), (33, 11497), (35, 11521), (41, 11566), (45, 11617), (47, 11647), (56, 11722), (68, 11785), (79, 11887), (80, 11908), (90, 11998), (94, 12025), (97, 12079), (115, 12229),

Gene: Jovo_13 Start: 10908, Stop: 11840, Start Num: 13

Candidate Starts for Jovo_13:

(Start: 13 @10908 has 49 MA's), (28, 11037), (31, 11079), (33, 11109), (43, 11196), (45, 11229), (79, 11493), (81, 11517), (87, 11577), (94, 11616), (96, 11637), (98, 11685), (105, 11742), (110, 11778), (113, 11802),

Gene: Jsquared_15 Start: 11031, Stop: 11981, Start Num: 5

Candidate Starts for Jsquared_15:

(Start: 5 @11031 has 300 MA's), (19, 11091), (25, 11160), (28, 11187), (31, 11229), (33, 11259), (35, 11283), (41, 11328), (45, 11379), (47, 11409), (57, 11493), (70, 11562), (74, 11607), (84, 11709), (92, 11757), (94, 11766), (95, 11784), (97, 11820), (104, 11871),

Gene: KADY_18 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for KADY_18:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475), (105, 12508), (110, 12544), (113, 12568),

Gene: KFPoly_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for KFPoly_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Kalb97_18 Start: 11608, Stop: 12606, Start Num: 7

Candidate Starts for Kalb97_18:

(Start: 7 @11608 has 112 MA's), (28, 11749), (39, 11869), (43, 11908), (45, 11941), (70, 12139), (77, 12208), (79, 12235), (86, 12316), (97, 12409), (102, 12454), (103, 12460), (105, 12493), (110, 12529), (113, 12553),

Gene: Kalnoky_18 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Kalnoky_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: Kalpine_19 Start: 13947, Stop: 14903, Start Num: 5

Candidate Starts for Kalpine_19:

(Start: 5 @13947 has 300 MA's), (19, 14007), (25, 14076), (28, 14103), (31, 14145), (33, 14175), (35, 14199), (41, 14244), (45, 14295), (46, 14307), (47, 14325), (61, 14430), (65, 14457), (74, 14529), (84, 14631), (94, 14688), (95, 14706), (97, 14742), (104, 14793),

Gene: Kampy_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Kampy_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Katalie136_15 Start: 11491, Stop: 12423, Start Num: 5

Candidate Starts for Katalie136_15:

(Start: 5 @11491 has 300 MA's), (19, 11551), (28, 11647), (29, 11662), (33, 11719), (35, 11743), (45, 11839), (52, 11923), (75, 12067), (79, 12109), (97, 12271), (100, 12304), (108, 12358), (112, 12391),

Gene: KatherineG_18 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for KatherineG_18:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: Kazan_19 Start: 12246, Stop: 13217, Start Num: 4

Candidate Starts for Kazan_19:

(Start: 4 @12246 has 70 MA's), (19, 12306), (28, 12402), (31, 12444), (33, 12474), (35, 12498), (41, 12543), (45, 12594), (46, 12606), (47, 12624), (63, 12729), (84, 12915), (113, 13188),

Gene: Kerberos_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for Kerberos_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: Keziacharles14_15 Start: 10993, Stop: 11961, Start Num: 5

Candidate Starts for Keziacharles14_15:

(Start: 5 @10993 has 300 MA's), (15, 11017), (19, 11053), (28, 11149), (33, 11221), (35, 11245), (45, 11341), (46, 11353), (47, 11371), (61, 11476),

Gene: Kimona_12 Start: 8892, Stop: 9875, Start Num: 5

Candidate Starts for Kimona_12:

(Start: 5 @8892 has 300 MA's), (25, 9021), (28, 9048), (29, 9063), (31, 9090), (33, 9120), (45, 9240), (66, 9411), (70, 9432), (79, 9528), (81, 9552), (85, 9594), (91, 9636), (94, 9648), (97, 9702), (108, 9789),

Gene: KingCyrus_18 Start: 12560, Stop: 13516, Start Num: 5

Candidate Starts for KingCyrus_18:

(Start: 5 @12560 has 300 MA's), (19, 12620), (23, 12668), (28, 12716), (31, 12758), (33, 12788), (35, 12812), (41, 12857), (45, 12908), (47, 12938), (61, 13043), (65, 13070), (70, 13097), (74, 13142), (94, 13301), (95, 13319), (97, 13355), (104, 13406),

Gene: Kingmustik0402_15 Start: 11471, Stop: 12403, Start Num: 5

Candidate Starts for Kingmustik0402_15:

(Start: 5 @11471 has 300 MA's), (19, 11531), (28, 11627), (33, 11699), (35, 11723), (45, 11819), (52, 11903), (75, 12047), (79, 12089), (97, 12251), (100, 12284), (104, 12302), (108, 12338), (112, 12371),

Gene: Kipper29_19 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for Kipper29_19:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: KittenMittens_14 Start: 9362, Stop: 10294, Start Num: 5

Candidate Starts for KittenMittens_14:

(Start: 5 @9362 has 300 MA's), (19, 9422), (26, 9500), (28, 9518), (29, 9533), (31, 9560), (33, 9590), (35, 9614), (41, 9659), (45, 9710), (66, 9860), (68, 9875), (73, 9923), (79, 9977), (104, 10190), (108,

10226), (109, 10244), (112, 10259),

Gene: Koduck_16 Start: 11343, Stop: 12323, Start Num: 1

Candidate Starts for Koduck_16:

(Start: 1 @11343 has 2 MA's), (Start: 14 @11382 has 36 MA's), (19, 11418), (28, 11514), (31, 11556), (33, 11586), (35, 11610), (41, 11655), (45, 11706), (47, 11736), (57, 11820), (69, 11895), (84, 12045), (97, 12156), (114, 12303),

Gene: Koko_19 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Koko_19:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904),

Gene: Koreni_14 Start: 11128, Stop: 12060, Start Num: 5

Candidate Starts for Koreni_14:

(Start: 5 @11128 has 300 MA's), (19, 11188), (28, 11284), (33, 11356), (35, 11380), (45, 11476), (52, 11560), (75, 11704), (79, 11746), (97, 11908), (100, 11941), (104, 11959), (108, 11995), (112, 12028),

Gene: Kratark_15 Start: 11474, Stop: 12406, Start Num: 5

Candidate Starts for Kratark_15:

(Start: 5 @11474 has 300 MA's), (19, 11534), (28, 11630), (33, 11702), (35, 11726), (45, 11822), (47, 11852), (52, 11906), (75, 12050), (79, 12092), (97, 12254), (100, 12287), (104, 12305), (108, 12341), (112, 12374),

Gene: Kremtemulon_14 Start: 11527, Stop: 12459, Start Num: 5

Candidate Starts for Kremtemulon_14:

(Start: 5 @11527 has 300 MA's), (19, 11587), (28, 11683), (33, 11755), (35, 11779), (45, 11875), (47, 11905), (52, 11959), (75, 12103), (79, 12145), (97, 12307), (100, 12340), (104, 12358), (108, 12394), (112, 12427),

Gene: Krishelle_12 Start: 7716, Stop: 8618, Start Num: 14

Candidate Starts for Krishelle_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (77, 8292), (83, 8352), (85, 8385),

Gene: Kristoff_16 Start: 11433, Stop: 12371, Start Num: 5

Candidate Starts for Kristoff_16:

(Start: 5 @11433 has 300 MA's), (19, 11493), (26, 11571), (28, 11589), (29, 11604), (31, 11631), (33, 11661), (35, 11685), (45, 11781), (46, 11793), (47, 11811), (56, 11886), (60, 11907), (79, 12048), (80, 12069), (96, 12177), (97, 12210), (104, 12261), (108, 12297),

Gene: Kugel_16 Start: 11675, Stop: 12868, Start Num: 10

Candidate Starts for Kugel_16:

(Start: 10 @11675 has 14 MA's), (19, 11723), (20, 11747), (28, 11819), (33, 11891), (35, 11915), (38, 11930), (45, 12011), (47, 12041), (67, 12167), (77, 12248), (79, 12275), (92, 12374), (112, 12557), (113, 12569), (118, 12701), (120, 12734), (122, 12755), (124, 12788),

Gene: Kyee_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Kyee_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Kykar_13 Start: 11172, Stop: 12365, Start Num: 10

Candidate Starts for Kykar_13:

(Start: 10 @11172 has 14 MA's), (19, 11220), (20, 11244), (28, 11316), (33, 11388), (35, 11412), (38, 11427), (45, 11508), (47, 11538), (67, 11664), (77, 11745), (79, 11772), (92, 11871), (112, 12054), (113, 12066), (122, 12252), (124, 12285),

Gene: L5_17 Start: 11351, Stop: 12331, Start Num: 1

Candidate Starts for L5_17:

(Start: 1 @11351 has 2 MA's), (Start: 14 @11390 has 36 MA's), (19, 11426), (28, 11522), (31, 11564), (33, 11594), (35, 11618), (41, 11663), (45, 11714), (47, 11744), (57, 11828), (69, 11903), (84, 12053), (97, 12164), (114, 12311),

Gene: LBerry_17 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for LBerry_17:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: LHTSCC_15 Start: 11457, Stop: 12389, Start Num: 5

Candidate Starts for LHTSCC_15:

(Start: 5 @11457 has 300 MA's), (19, 11517), (28, 11613), (29, 11628), (33, 11685), (35, 11709), (45, 11805), (47, 11835), (52, 11889), (75, 12033), (79, 12075), (97, 12237), (100, 12270), (104, 12288), (108, 12324), (112, 12357),

Gene: LadyBird_16 Start: 12129, Stop: 13085, Start Num: 5

Candidate Starts for LadyBird_16:

(Start: 5 @12129 has 300 MA's), (15, 12153), (19, 12189), (28, 12285), (31, 12327), (33, 12357), (35, 12381), (41, 12426), (45, 12477), (46, 12489), (49, 12537), (65, 12639), (97, 12924), (104, 12975),

Gene: Lambert1_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Lambert1_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Landor_17 Start: 13903, Stop: 14859, Start Num: 5

Candidate Starts for Landor_17:

(Start: 5 @13903 has 300 MA's), (19, 13963), (25, 14032), (28, 14059), (31, 14101), (33, 14131), (35, 14155), (41, 14200), (45, 14251), (47, 14281), (65, 14413), (71, 14470), (94, 14644), (97, 14698),

Gene: LappelDuVide_14 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for LappelDuVide_14:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Larenn_17 Start: 12444, Stop: 13400, Start Num: 5

Candidate Starts for Larenn_17:

(Start: 5 @12444 has 300 MA's), (19, 12504), (25, 12573), (28, 12600), (31, 12642), (33, 12672), (35, 12696), (41, 12741), (45, 12792), (61, 12927), (65, 12954), (70, 12981), (74, 13026), (94, 13185), (95, 13203), (97, 13239), (104, 13290),

Gene: LarryKay_17 Start: 11625, Stop: 12617, Start Num: 7

Candidate Starts for LarryKay_17:

(Start: 7 @11625 has 112 MA's), (28, 11766), (39, 11886), (43, 11925), (45, 11958), (56, 12069), (70, 12156), (79, 12252), (86, 12333), (91, 12360), (94, 12372), (97, 12426), (102, 12471), (103, 12477), (105, 12510), (110, 12546), (113, 12570),

Gene: LastResort_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for LastResort_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Lemur_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Lemur_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (29, 11650), (33, 11707), (35, 11731), (45, 11827), (47, 11857), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: LeoAvram_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for LeoAvram_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Leogania_18 Start: 14303, Stop: 15259, Start Num: 5

Candidate Starts for Leogania_18:

(Start: 5 @14303 has 300 MA's), (19, 14363), (25, 14432), (28, 14459), (31, 14501), (33, 14531), (35, 14555), (41, 14600), (45, 14651), (61, 14786), (65, 14813), (84, 14987), (95, 15062), (97, 15098), (104, 15149),

Gene: Lev2_13 Start: 10620, Stop: 11552, Start Num: 13

Candidate Starts for Lev2_13:

(Start: 13 @10620 has 49 MA's), (28, 10749), (33, 10821), (43, 10908), (45, 10941), (65, 11082), (79, 11205), (81, 11229), (87, 11289), (94, 11328), (96, 11349), (98, 11397), (105, 11454), (110, 11490), (113, 11514),

Gene: Leviathan_18 Start: 12617, Stop: 13573, Start Num: 5

Candidate Starts for Leviathan_18:

(Start: 5 @12617 has 300 MA's), (19, 12677), (23, 12725), (25, 12746), (28, 12773), (31, 12815), (33, 12845), (35, 12869), (45, 12965), (46, 12977), (61, 13100), (65, 13127), (70, 13154), (74, 13199), (94, 13358), (95, 13376), (97, 13412), (104, 13463),

Gene: LilTurb_18 Start: 12644, Stop: 13600, Start Num: 5

Candidate Starts for LilTurb_18:

(Start: 5 @12644 has 300 MA's), (19, 12704), (23, 12752), (25, 12773), (28, 12800), (31, 12842), (33, 12872), (35, 12896), (45, 12992), (46, 13004), (61, 13127), (65, 13154), (70, 13181), (74, 13226), (94, 13385), (95, 13403), (97, 13439), (104, 13490),

Gene: Lilbunny_18 Start: 12216, Stop: 13187, Start Num: 4

Candidate Starts for Lilbunny_18:

(Start: 4 @12216 has 70 MA's), (19, 12276), (28, 12372), (31, 12414), (33, 12444), (35, 12468), (41, 12513), (45, 12564), (46, 12576), (47, 12594), (63, 12699), (84, 12885), (113, 13158),

Gene: Lilith_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for Lilith_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384),

(105, 12417), (110, 12453), (113, 12477),

Gene: Lillie_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Lillie_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: LittleB_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for LittleB_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (47, 11857), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: LittleCherry_13 Start: 10800, Stop: 11732, Start Num: 13

Candidate Starts for LittleCherry_13:

(Start: 13 @10800 has 49 MA's), (28, 10929), (31, 10971), (33, 11001), (43, 11088), (45, 11121), (79, 11385), (81, 11409), (87, 11469), (94, 11508), (96, 11529), (98, 11577), (105, 11634), (110, 11670), (113, 11694),

Gene: LittleGuy_15 Start: 11425, Stop: 12357, Start Num: 5

Candidate Starts for LittleGuy_15:

(Start: 5 @11425 has 300 MA's), (19, 11485), (28, 11581), (33, 11653), (35, 11677), (45, 11773), (47, 11803), (52, 11857), (75, 12001), (79, 12043), (97, 12205), (100, 12238), (104, 12256), (108, 12292), (112, 12325),

Gene: LochMonster_15 Start: 11454, Stop: 12386, Start Num: 5

Candidate Starts for LochMonster_15:

(Start: 5 @11454 has 300 MA's), (19, 11514), (28, 11610), (33, 11682), (35, 11706), (45, 11802), (47, 11832), (52, 11886), (75, 12030), (79, 12072), (97, 12234), (100, 12267), (104, 12285), (108, 12321), (112, 12354),

Gene: Loka_19 Start: 13850, Stop: 14797, Start Num: 10

Candidate Starts for Loka_19:

(8, 13844), (Start: 10 @13850 has 14 MA's), (19, 13901), (23, 13949), (28, 13997), (29, 14012), (31, 14039), (33, 14069), (38, 14108), (45, 14189), (54, 14291), (79, 14474), (92, 14573), (94, 14582), (97, 14636),

Gene: LoneWolf_17 Start: 12688, Stop: 13647, Start Num: 5

Candidate Starts for LoneWolf_17:

(Start: 5 @12688 has 300 MA's), (19, 12748), (27, 12838), (28, 12844), (31, 12886), (33, 12916), (35, 12940), (41, 12985), (45, 13036), (46, 13048), (47, 13066), (49, 13096), (63, 13189), (65, 13201), (94, 13432), (104, 13537),

Gene: Looper_19 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for Looper_19:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Lorenzo_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Lorenzo_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Loser_19 Start: 13935, Stop: 14891, Start Num: 5

Candidate Starts for Loser_19:

(Start: 5 @13935 has 300 MA's), (19, 13995), (25, 14064), (28, 14091), (31, 14133), (33, 14163), (35, 14187), (41, 14232), (45, 14283), (47, 14313), (49, 14343), (70, 14472), (74, 14517), (84, 14619), (95, 14694), (97, 14730), (104, 14781),

Gene: Louie6_17 Start: 11626, Stop: 12618, Start Num: 7

Candidate Starts for Louie6_17:

(Start: 7 @11626 has 112 MA's), (28, 11767), (39, 11887), (43, 11926), (45, 11959), (56, 12070), (70, 12157), (79, 12253), (86, 12334), (91, 12361), (94, 12373), (97, 12427), (102, 12472), (103, 12478), (105, 12511), (110, 12547), (113, 12571),

Gene: Luchador_16 Start: 12226, Stop: 13173, Start Num: 10

Candidate Starts for Luchador_16:

(Start: 10 @12226 has 14 MA's), (19, 12277), (28, 12373), (29, 12388), (31, 12415), (33, 12445), (38, 12484), (41, 12514), (45, 12565), (46, 12577), (61, 12700), (66, 12733), (94, 12958), (97, 13012), (104, 13063),

Gene: Lucivia_16 Start: 12748, Stop: 13737, Start Num: 4

Candidate Starts for Lucivia_16:

(Start: 4 @12748 has 70 MA's), (19, 12808), (22, 12838), (27, 12898), (28, 12904), (31, 12946), (33, 12976), (35, 13000), (41, 13045), (45, 13096), (46, 13108), (47, 13126), (57, 13210), (63, 13246), (65, 13258), (70, 13285), (97, 13543), (109, 13648),

Gene: Lucyedi_17 Start: 12342, Stop: 13298, Start Num: 5

Candidate Starts for Lucyedi_17:

(Start: 5 @12342 has 300 MA's), (19, 12402), (27, 12492), (28, 12498), (31, 12540), (33, 12570), (35, 12594), (41, 12639), (45, 12690), (47, 12720), (52, 12774), (63, 12840), (109, 13242),

Gene: LugYA_19 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for LugYA_19:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Lunsford_16 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Lunsford_16:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (29, 11650), (33, 11707), (35, 11731), (45, 11827), (47, 11857), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: MA5_15 Start: 10708, Stop: 11679, Start Num: 7

Candidate Starts for MA5_15:

(Start: 7 @10708 has 112 MA's), (28, 10849), (39, 10969), (43, 11008), (45, 11041), (57, 11161), (73, 11278), (79, 11332), (86, 11413), (91, 11440), (97, 11506), (102, 11551), (103, 11557), (105, 11590), (110, 11626),

Gene: MK4_15 Start: 10980, Stop: 11972, Start Num: 7

Candidate Starts for MK4_15:

(Start: 7 @10980 has 112 MA's), (12, 10989), (28, 11121), (39, 11241), (43, 11280), (45, 11313), (56, 11424), (57, 11433), (73, 11550), (79, 11604), (87, 11688), (97, 11778), (103, 11829), (105, 11862), (110, 11898),

Gene: MaCh_16 Start: 12696, Stop: 13685, Start Num: 4

Candidate Starts for MaCh_16:

(Start: 4 @12696 has 70 MA's), (19, 12756), (22, 12786), (27, 12846), (28, 12852), (31, 12894), (33, 12924), (35, 12948), (41, 12993), (45, 13044), (46, 13056), (47, 13074), (57, 13158), (63, 13194), (65, 13206), (70, 13233), (97, 13491), (109, 13596),

Gene: Mabel_16 Start: 12763, Stop: 13752, Start Num: 4

Candidate Starts for Mabel_16:

(Start: 4 @12763 has 70 MA's), (19, 12823), (22, 12853), (27, 12913), (28, 12919), (31, 12961), (33, 12991), (35, 13015), (41, 13060), (45, 13111), (46, 13123), (47, 13141), (57, 13225), (63, 13261), (65, 13273), (70, 13300), (97, 13558), (109, 13663),

Gene: MadMarie_17 Start: 11541, Stop: 12533, Start Num: 7

Candidate Starts for MadMarie_17:

(Start: 7 @11541 has 112 MA's), (28, 11682), (39, 11802), (43, 11841), (45, 11874), (56, 11985), (70, 12072), (79, 12168), (86, 12249), (91, 12276), (94, 12288), (97, 12342), (102, 12387), (103, 12393), (105, 12426), (110, 12462), (113, 12486),

Gene: Mainiac_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for Mainiac_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384), (105, 12417), (110, 12453), (113, 12477),

Gene: Malec_17 Start: 12449, Stop: 13405, Start Num: 5

Candidate Starts for Malec_17:

(Start: 5 @12449 has 300 MA's), (19, 12509), (25, 12578), (28, 12605), (31, 12647), (33, 12677), (35, 12701), (41, 12746), (45, 12797), (61, 12932), (65, 12959), (70, 12986), (74, 13031), (94, 13190), (95, 13208), (97, 13244), (104, 13295),

Gene: Malinsilva_19 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for Malinsilva_19:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: Maminiaina_17 Start: 12612, Stop: 13571, Start Num: 5

Candidate Starts for Maminiaina_17:

(Start: 5 @12612 has 300 MA's), (19, 12672), (27, 12762), (28, 12768), (31, 12810), (33, 12840), (35, 12864), (41, 12909), (45, 12960), (47, 12990), (57, 13074), (63, 13113), (65, 13125), (84, 13299), (94, 13356), (104, 13461),

Gene: Manu_18 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Manu_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: MarQuardt_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for MarQuardt_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: Margo_16 Start: 11659, Stop: 12651, Start Num: 7

Candidate Starts for Margo_16:

(Start: 7 @11659 has 112 MA's), (28, 11800), (43, 11959), (45, 11992), (68, 12184), (73, 12232), (77, 12259), (79, 12286), (86, 12367), (88, 12382), (94, 12406), (97, 12460), (102, 12505), (103, 12511), (105, 12544), (110, 12580), (115, 12622),

Gene: Marie_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Marie_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Marius_18 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Marius_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: MarysWell_12 Start: 10767, Stop: 11699, Start Num: 13

Candidate Starts for MarysWell_12:

(Start: 13 @10767 has 49 MA's), (28, 10896), (31, 10938), (33, 10968), (43, 11055), (45, 11088), (79, 11352), (81, 11376), (87, 11436), (94, 11475), (96, 11496), (98, 11544), (105, 11601), (110, 11637), (113, 11661),

Gene: Maverick_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Maverick_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Maxo_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Maxo_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Mazhar510_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Mazhar510_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (47, 11858), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: McFly_19 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for McFly_19:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: Medusa_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Medusa_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: MeeZee_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for MeeZee_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Melvin_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Melvin_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Methuselah_17 Start: 11622, Stop: 12614, Start Num: 7

Candidate Starts for Methuselah_17:

(Start: 7 @11622 has 112 MA's), (28, 11763), (39, 11883), (43, 11922), (45, 11955), (56, 12066), (70, 12153), (79, 12249), (86, 12330), (91, 12357), (94, 12369), (97, 12423), (102, 12468), (103, 12474), (105, 12507), (110, 12543), (113, 12567),

Gene: Micasa_12 Start: 10768, Stop: 11700, Start Num: 13

Candidate Starts for Micasa_12:

(Start: 13 @10768 has 49 MA's), (28, 10897), (31, 10939), (33, 10969), (43, 11056), (45, 11089), (79, 11353), (81, 11377), (87, 11437), (94, 11476), (96, 11497), (98, 11545), (105, 11602), (110, 11638), (113, 11662),

Gene: Microwolf_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for Microwolf_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: MiculUcigas_16 Start: 12213, Stop: 13169, Start Num: 5

Candidate Starts for MiculUcigas_16:

(Start: 5 @12213 has 300 MA's), (19, 12273), (25, 12342), (28, 12369), (31, 12411), (33, 12441), (35, 12465), (41, 12510), (45, 12561), (46, 12573), (61, 12696), (65, 12723), (70, 12750), (74, 12795), (94, 12954), (95, 12972), (97, 13008), (104, 13059),

Gene: Midas2_13 Start: 10767, Stop: 11699, Start Num: 13

Candidate Starts for Midas2_13:

(Start: 13 @10767 has 49 MA's), (28, 10896), (31, 10938), (33, 10968), (43, 11055), (45, 11088), (79, 11352), (81, 11376), (87, 11436), (94, 11475), (96, 11496), (98, 11544), (105, 11601), (110, 11637), (113, 11661),

Gene: Miko_19 Start: 13819, Stop: 14766, Start Num: 10

Candidate Starts for Miko_19:

(8, 13813), (Start: 10 @13819 has 14 MA's), (19, 13870), (28, 13966), (29, 13981), (31, 14008), (33, 14038), (38, 14077), (45, 14158), (54, 14260), (71, 14377), (79, 14443), (92, 14542), (94, 14551), (97, 14605), (104, 14656),

Gene: Milcery_13 Start: 10804, Stop: 11736, Start Num: 13

Candidate Starts for Milcery_13:

(Start: 13 @10804 has 49 MA's), (28, 10933), (31, 10975), (33, 11005), (43, 11092), (45, 11125), (79, 11389), (81, 11413), (87, 11473), (94, 11512), (96, 11533), (98, 11581), (105, 11638), (110, 11674), (113, 11698),

Gene: Millski_15 Start: 11482, Stop: 12414, Start Num: 5

Candidate Starts for Millski_15:

(Start: 5 @11482 has 300 MA's), (19, 11542), (28, 11638), (33, 11710), (35, 11734), (45, 11830), (52, 11914), (75, 12058), (79, 12100), (97, 12262), (100, 12295), (104, 12313), (108, 12349), (112, 12382),

Gene: MinecraftSteve_19 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for MinecraftSteve_19:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: Miramae_15 Start: 11439, Stop: 12371, Start Num: 5

Candidate Starts for Miramae_15:

(Start: 5 @11439 has 300 MA's), (19, 11499), (28, 11595), (29, 11610), (33, 11667), (35, 11691), (45, 11787), (52, 11871), (75, 12015), (79, 12057), (100, 12252), (104, 12270), (112, 12339),

Gene: Misomonster_19 Start: 11622, Stop: 12614, Start Num: 7

Candidate Starts for Misomonster_19:

(Start: 7 @11622 has 112 MA's), (28, 11763), (39, 11883), (43, 11922), (45, 11955), (56, 12066), (70, 12153), (79, 12249), (86, 12330), (91, 12357), (94, 12369), (97, 12423), (102, 12468), (103, 12474), (105, 12507), (110, 12543), (113, 12567),

Gene: MissWhite_16 Start: 11203, Stop: 12207, Start Num: 5

Candidate Starts for MissWhite_16:

(Start: 5 @11203 has 300 MA's), (19, 11263), (28, 11359), (31, 11401), (33, 11431), (35, 11455), (41, 11500), (45, 11551), (47, 11581), (69, 11722), (79, 11824), (80, 11845), (90, 11935), (94, 11962), (97, 12016), (115, 12166),

Gene: MoneyMay_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for MoneyMay_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Morpher26_15 Start: 11491, Stop: 12423, Start Num: 5

Candidate Starts for Morpher26_15:

(Start: 5 @11491 has 300 MA's), (19, 11551), (28, 11647), (29, 11662), (33, 11719), (35, 11743), (45, 11839), (52, 11923), (75, 12067), (79, 12109), (97, 12271), (100, 12304), (108, 12358), (112, 12391),

Gene: Morrow_15 Start: 11482, Stop: 12414, Start Num: 5

Candidate Starts for Morrow_15:

(Start: 5 @11482 has 300 MA's), (19, 11542), (28, 11638), (33, 11710), (35, 11734), (45, 11830), (52, 11914), (75, 12058), (79, 12100), (97, 12262), (100, 12295), (104, 12313), (108, 12349), (112, 12382),

Gene: MuchMore_19 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for MuchMore_19:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: Mulciber_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Mulciber_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: Munch_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Munch_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: Mundrea_15 Start: 11442, Stop: 12374, Start Num: 5

Candidate Starts for Mundrea_15:

(Start: 5 @11442 has 300 MA's), (19, 11502), (28, 11598), (29, 11613), (33, 11670), (35, 11694), (45, 11790), (47, 11820), (52, 11874), (75, 12018), (79, 12060), (97, 12222), (104, 12273), (108, 12309), (112, 12342),

Gene: MyraDee_13 Start: 9598, Stop: 10551, Start Num: 13

Candidate Starts for MyraDee_13:

(Start: 13 @9598 has 49 MA's), (28, 9727), (43, 9886), (45, 9919), (48, 9970), (63, 10075), (79, 10210), (94, 10330), (97, 10384), (104, 10435), (105, 10456),

Gene: Myxus_17 Start: 12848, Stop: 13807, Start Num: 5

Candidate Starts for Myxus_17:

(Start: 5 @12848 has 300 MA's), (19, 12908), (27, 12998), (28, 13004), (31, 13046), (33, 13076), (35, 13100), (41, 13145), (45, 13196), (46, 13208), (47, 13226), (63, 13349), (65, 13361), (94, 13592), (104, 13697),

Gene: NaSiaTalie_16 Start: 12210, Stop: 13166, Start Num: 5

Candidate Starts for NaSiaTalie_16:

(Start: 5 @12210 has 300 MA's), (19, 12270), (25, 12339), (28, 12366), (31, 12408), (33, 12438), (35, 12462), (41, 12507), (45, 12558), (46, 12570), (61, 12693), (65, 12720), (70, 12747), (74, 12792), (94, 12951), (95, 12969), (97, 13005), (104, 13056),

Gene: Naca_13 Start: 10712, Stop: 11653, Start Num: 13

Candidate Starts for Naca_13:

(Start: 13 @10712 has 49 MA's), (28, 10841), (33, 10913), (43, 11000), (45, 11033), (47, 11063), (65, 11174), (67, 11189), (79, 11297), (81, 11321), (87, 11381), (94, 11420), (96, 11441), (98, 11489), (105, 11546), (110, 11582), (113, 11606),

Gene: Naiad_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Naiad_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Naji_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for Naji_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: Nancinator_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Nancinator_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Natosaleda_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Natosaleda_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: NearlyHeadless_13 Start: 10396, Stop: 11346, Start Num: 13

Candidate Starts for NearlyHeadless_13:

(Start: 13 @10396 has 49 MA's), (28, 10525), (31, 10567), (43, 10684), (45, 10717), (50, 10792), (66, 10876), (77, 10966), (79, 10993), (83, 11026), (87, 11077), (94, 11116), (101, 11209), (105, 11242), (110, 11278),

Gene: Nebs_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Nebs_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Nebulosus_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for Nebulosus_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Nedarya_17 Start: 11873, Stop: 12826, Start Num: 5

Candidate Starts for Nedarya_17:

(Start: 5 @11873 has 300 MA's), (19, 11933), (28, 12029), (33, 12101), (35, 12125), (41, 12170), (45, 12221), (47, 12251), (94, 12608), (96, 12629), (112, 12782),

Gene: Neeharika16_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Neeharika16_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: Nemo27_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Nemo27_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Newrala_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Newrala_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: NicoleTera_20 Start: 13919, Stop: 14875, Start Num: 5

Candidate Starts for NicoleTera_20:

(Start: 5 @13919 has 300 MA's), (19, 13979), (28, 14075), (31, 14117), (33, 14147), (35, 14171), (41, 14216), (45, 14267), (65, 14429), (70, 14456), (74, 14501), (94, 14660), (95, 14678), (97, 14714), (104, 14765),

Gene: Noella_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Noella_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Noelle_15 Start: 11545, Stop: 12477, Start Num: 5

Candidate Starts for Noelle_15:

(Start: 5 @11545 has 300 MA's), (19, 11605), (28, 11701), (29, 11716), (33, 11773), (35, 11797), (45, 11893), (47, 11923), (52, 11977), (75, 12121), (79, 12163), (97, 12325), (104, 12376), (112, 12445),

Gene: Norbert_15 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Norbert_15:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: NorthStar_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for NorthStar_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: NotAPhaseMom_15 Start: 11483, Stop: 12415, Start Num: 5

Candidate Starts for NotAPhaseMom_15:

(Start: 5 @11483 has 300 MA's), (19, 11543), (28, 11639), (33, 11711), (35, 11735), (45, 11831), (52, 11915), (75, 12059), (79, 12101), (97, 12263), (100, 12296), (104, 12314), (108, 12350), (112, 12383),

Gene: NothingSpecial_18 Start: 14179, Stop: 15132, Start Num: 5

Candidate Starts for NothingSpecial_18:

(Start: 5 @14179 has 300 MA's), (19, 14239), (25, 14308), (28, 14335), (31, 14377), (33, 14407), (35, 14431), (41, 14476), (45, 14527), (47, 14557), (70, 14716), (74, 14761), (95, 14938), (97, 14974),

Gene: Nyxis_15 Start: 11425, Stop: 12357, Start Num: 5

Candidate Starts for Nyxis_15:

(Start: 5 @11425 has 300 MA's), (19, 11485), (28, 11581), (33, 11653), (35, 11677), (45, 11773), (52, 11857), (75, 12001), (79, 12043), (96, 12172), (97, 12205), (100, 12238), (104, 12256), (108, 12292), (112, 12325),

Gene: OKCentral2016_15 Start: 10955, Stop: 11890, Start Num: 5

Candidate Starts for OKCentral2016_15:

(Start: 5 @10955 has 300 MA's), (19, 11015), (28, 11111), (29, 11126), (31, 11153), (33, 11183), (35, 11207), (36, 11213), (41, 11252), (45, 11303), (47, 11333), (60, 11426), (73, 11513), (79, 11567), (80, 11588), (96, 11696), (97, 11729), (104, 11780), (108, 11816),

Gene: OKaNui_15 Start: 11245, Stop: 12177, Start Num: 5

Candidate Starts for OKaNui_15:

(Start: 5 @11245 has 300 MA's), (19, 11305), (28, 11401), (29, 11416), (33, 11473), (35, 11497), (45, 11593), (47, 11623), (52, 11677), (75, 11821), (79, 11863), (97, 12025), (100, 12058), (104, 12076), (108, 12112), (112, 12145),

Gene: Obama12_15 Start: 11459, Stop: 12391, Start Num: 5

Candidate Starts for Obama12_15:

(Start: 5 @11459 has 300 MA's), (19, 11519), (28, 11615), (29, 11630), (33, 11687), (35, 11711), (45, 11807), (47, 11837), (52, 11891), (75, 12035), (79, 12077), (97, 12239), (100, 12272), (104, 12290), (108, 12326), (112, 12359),

Gene: Odin_15 Start: 10976, Stop: 11932, Start Num: 5

Candidate Starts for Odin_15:

(Start: 5 @10976 has 300 MA's), (19, 11036), (27, 11126), (28, 11132), (31, 11174), (33, 11204), (35, 11228), (41, 11273), (45, 11324), (46, 11336), (47, 11354), (70, 11513), (74, 11558), (83, 11642), (94, 11717),

Gene: Ohfah_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Ohfah_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (70, 12001), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: OlanP_17 Start: 11790, Stop: 12788, Start Num: 7

Candidate Starts for OlanP_17:

(Start: 7 @11790 has 112 MA's), (28, 11931), (39, 12051), (43, 12090), (45, 12123), (70, 12321), (77, 12390), (79, 12417), (86, 12498), (97, 12591), (102, 12636), (103, 12642), (105, 12675), (110, 12711), (113, 12735),

Gene: Ollie_17 Start: 11410, Stop: 12402, Start Num: 7

Candidate Starts for Ollie_17:

(Start: 7 @11410 has 112 MA's), (28, 11551), (39, 11671), (43, 11710), (45, 11743), (56, 11854), (70, 11941), (79, 12037), (86, 12118), (91, 12145), (94, 12157), (97, 12211), (102, 12256), (103, 12262), (105, 12295), (110, 12331), (113, 12355),

Gene: Oofda_19 Start: 11266, Stop: 12216, Start Num: 5

Candidate Starts for Oofda_19:

(Start: 5 @11266 has 300 MA's), (19, 11326), (28, 11422), (33, 11494), (35, 11518), (41, 11563), (45, 11614), (47, 11644), (96, 12022), (108, 12142), (113, 12187),

Gene: Orange_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Orange_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: P28Green_17 Start: 11538, Stop: 12530, Start Num: 7

Candidate Starts for P28Green_17:

(Start: 7 @11538 has 112 MA's), (28, 11679), (39, 11799), (43, 11838), (45, 11871), (56, 11982), (70, 12069), (79, 12165), (86, 12246), (91, 12273), (94, 12285), (97, 12339), (102, 12384), (103, 12390), (105, 12423), (110, 12459), (113, 12483),

Gene: PGHhamlin_19 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for PGHhamlin_19:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: PP_25 Start: 17295, Stop: 18293, Start Num: 7

Candidate Starts for PP_25:

(Start: 7 @17295 has 112 MA's), (28, 17436), (34, 17517), (40, 17568), (43, 17595), (45, 17628), (70, 17826), (73, 17868), (83, 17955), (94, 18042), (95, 18060), (105, 18180), (106, 18183), (111, 18219),

Gene: PackMan_17 Start: 12848, Stop: 13807, Start Num: 5

Candidate Starts for PackMan_17:

(Start: 5 @12848 has 300 MA's), (19, 12908), (27, 12998), (28, 13004), (31, 13046), (33, 13076), (35, 13100), (41, 13145), (45, 13196), (46, 13208), (47, 13226), (63, 13349), (65, 13361), (94, 13592), (104, 13697),

Gene: PainterBoy_17 Start: 12342, Stop: 13298, Start Num: 5

Candidate Starts for PainterBoy_17:

(Start: 5 @12342 has 300 MA's), (19, 12402), (27, 12492), (28, 12498), (31, 12540), (33, 12570), (35, 12594), (41, 12639), (45, 12690), (47, 12720), (52, 12774), (63, 12840), (109, 13242),

Gene: Palestino_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Palestino_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Panamaxus_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Panamaxus_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Partridge_12 Start: 7760, Stop: 8662, Start Num: 14

Candidate Starts for Partridge_12:

(Start: 14 @7760 has 36 MA's), (28, 7889), (36, 7991), (42, 8033), (43, 8048), (45, 8081), (77, 8336), (83, 8396), (85, 8429),

Gene: Pawn_18 Start: 11610, Stop: 12608, Start Num: 7

Candidate Starts for Pawn_18:

(Start: 7 @11610 has 112 MA's), (28, 11751), (39, 11871), (43, 11910), (45, 11943), (70, 12141), (77, 12210), (79, 12237), (86, 12318), (97, 12411), (102, 12456), (103, 12462), (105, 12495), (110, 12531), (113, 12555),

Gene: PeaceMeal1_14 Start: 9363, Stop: 10295, Start Num: 5

Candidate Starts for PeaceMeal1_14:

(Start: 5 @9363 has 300 MA's), (19, 9423), (26, 9501), (28, 9519), (29, 9534), (31, 9561), (33, 9591), (35, 9615), (41, 9660), (45, 9711), (66, 9861), (68, 9876), (73, 9924), (79, 9978), (104, 10191), (108, 10227), (109, 10245), (112, 10260),

Gene: Peaches_15 Start: 11481, Stop: 12413, Start Num: 5

Candidate Starts for Peaches_15:

(Start: 5 @11481 has 300 MA's), (19, 11541), (28, 11637), (29, 11652), (33, 11709), (35, 11733), (45, 11829), (47, 11859), (52, 11913), (75, 12057), (79, 12099), (97, 12261), (100, 12294), (104, 12312), (108, 12348), (112, 12381),

Gene: Pembroke_17 Start: 11540, Stop: 12532, Start Num: 7

Candidate Starts for Pembroke_17:

(Start: 7 @11540 has 112 MA's), (28, 11681), (39, 11801), (43, 11840), (45, 11873), (56, 11984), (70, 12071), (79, 12167), (86, 12248), (91, 12275), (94, 12287), (97, 12341), (102, 12386), (103, 12392), (105, 12425), (110, 12461), (113, 12485),

Gene: Penny1_17 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for Penny1_17:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: Perplexer_15 Start: 11485, Stop: 12417, Start Num: 5

Candidate Starts for Perplexer_15:

(Start: 5 @11485 has 300 MA's), (19, 11545), (28, 11641), (29, 11656), (33, 11713), (35, 11737), (45, 11833), (52, 11917), (75, 12061), (79, 12103), (97, 12265), (100, 12298), (108, 12352), (112, 12385),

Gene: PeterPeter_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for PeterPeter_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Petersenfast_15 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Petersenfast_15:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: PetiteSangsue_15 Start: 11491, Stop: 12423, Start Num: 5

Candidate Starts for PetiteSangsue_15:

(Start: 5 @11491 has 300 MA's), (19, 11551), (28, 11647), (29, 11662), (33, 11719), (35, 11743), (45, 11839), (52, 11923), (75, 12067), (79, 12109), (97, 12271), (100, 12304), (108, 12358), (112, 12391),

Gene: PetterN_14 Start: 10599, Stop: 11540, Start Num: 13

Candidate Starts for PetterN_14:

(Start: 13 @10599 has 49 MA's), (28, 10728), (33, 10800), (43, 10887), (45, 10920), (47, 10950), (65, 11061), (67, 11076), (79, 11184), (81, 11208), (87, 11268), (94, 11307), (96, 11328), (98, 11376), (105, 11433), (110, 11469), (113, 11493),

Gene: Ph8s_17 Start: 10936, Stop: 11892, Start Num: 5

Candidate Starts for Ph8s_17:

(Start: 5 @10936 has 300 MA's), (19, 10996), (27, 11086), (28, 11092), (31, 11134), (33, 11164), (35, 11188), (41, 11233), (45, 11284), (46, 11296), (47, 11314), (59, 11419), (70, 11473), (74, 11518), (81, 11593), (83, 11602), (94, 11677),

Gene: Phacado_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Phacado_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Phaded_19 Start: 14250, Stop: 15206, Start Num: 5

Candidate Starts for Phaded_19:

(Start: 5 @14250 has 300 MA's), (19, 14310), (25, 14379), (28, 14406), (31, 14448), (33, 14478), (35, 14502), (41, 14547), (45, 14598), (47, 14628), (65, 14760), (71, 14817), (94, 14991), (97, 15045),

Gene: Phaeder_17 Start: 12848, Stop: 13807, Start Num: 5

Candidate Starts for Phaeder_17:

(Start: 5 @12848 has 300 MA's), (19, 12908), (27, 12998), (28, 13004), (31, 13046), (33, 13076), (35, 13100), (41, 13145), (45, 13196), (46, 13208), (47, 13226), (63, 13349), (65, 13361), (94, 13592), (104, 13697),

Gene: PhailMary_11 Start: 7767, Stop: 8669, Start Num: 14

Candidate Starts for PhailMary_11:

(Start: 14 @7767 has 36 MA's), (28, 7896), (36, 7998), (42, 8040), (43, 8055), (45, 8088), (77, 8343), (83, 8403), (85, 8436),

Gene: Phantastic_15 Start: 11066, Stop: 12037, Start Num: 7

Candidate Starts for Phantastic_15:

(Start: 7 @11066 has 112 MA's), (12, 11075), (28, 11207), (39, 11327), (43, 11366), (45, 11399), (51, 11480), (73, 11636), (79, 11690), (86, 11771), (92, 11801), (94, 11810), (97, 11864), (102, 11909), (103, 11915), (105, 11948), (110, 11984),

Gene: Pharaoh_16 Start: 12627, Stop: 13589, Start Num: 5

Candidate Starts for Pharaoh_16:

(Start: 5 @12627 has 300 MA's), (19, 12687), (27, 12777), (28, 12783), (31, 12825), (33, 12855), (35, 12879), (41, 12924), (45, 12975), (47, 13005), (63, 13131), (65, 13143), (94, 13374), (104, 13479),

Gene: Phelipe_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Phelipe_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Phighter1804_15 Start: 11457, Stop: 12389, Start Num: 5

Candidate Starts for Phighter1804_15:

(Start: 5 @11457 has 300 MA's), (19, 11517), (28, 11613), (29, 11628), (33, 11685), (35, 11709), (45, 11805), (47, 11835), (52, 11889), (79, 12075), (97, 12237), (100, 12270), (104, 12288), (108, 12324), (112, 12357),

Gene: Phillis_13 Start: 10354, Stop: 11304, Start Num: 13

Candidate Starts for Phillis_13:

(Start: 13 @10354 has 49 MA's), (28, 10483), (31, 10525), (43, 10642), (45, 10675), (50, 10750), (66, 10834), (77, 10924), (79, 10951), (83, 10984), (87, 11035), (94, 11074), (105, 11200), (110, 11236),

Gene: PhishRPhriends_16 Start: 10801, Stop: 11793, Start Num: 7

Candidate Starts for PhishRPhriends_16:

(Start: 7 @10801 has 112 MA's), (28, 10942), (39, 11062), (43, 11101), (45, 11134), (70, 11332), (77, 11401), (79, 11428), (86, 11509), (97, 11602), (102, 11647), (103, 11653), (105, 11686), (110, 11722), (113, 11746),

Gene: Phlei_12 Start: 12721, Stop: 13926, Start Num: 10

Candidate Starts for Phlei_12:

(Start: 10 @12721 has 14 MA's), (19, 12769), (28, 12865), (29, 12880), (33, 12937), (35, 12961), (38, 12976), (45, 13057), (47, 13087), (79, 13339), (94, 13447), (113, 13633), (116, 13660), (118, 13765), (119, 13780), (121, 13813), (123, 13837),

Gene: Phlorence_13 Start: 10907, Stop: 11839, Start Num: 13

Candidate Starts for Phlorence_13:

(Start: 13 @10907 has 49 MA's), (28, 11036), (31, 11078), (33, 11108), (43, 11195), (45, 11228), (65, 11369), (79, 11492), (81, 11516), (87, 11576), (94, 11615), (96, 11636), (98, 11684), (105, 11741), (110, 11777), (113, 11801),

Gene: Phoebe_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Phoebe_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Phonnegut_17 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for Phonnegut_17:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: Phontbonne_15 Start: 11426, Stop: 12358, Start Num: 5

Candidate Starts for Phontbonne_15:

(Start: 5 @11426 has 300 MA's), (19, 11486), (28, 11582), (29, 11597), (33, 11654), (35, 11678), (45, 11774), (47, 11804), (52, 11858), (75, 12002), (79, 12044), (97, 12206), (100, 12239), (104, 12257), (108, 12293), (112, 12326),

Gene: Phoxy_17 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for Phoxy_17:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475), (105, 12508), (110, 12544), (113, 12568),

Gene: Phrankenstein_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Phrankenstein_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Phranny_18 Start: 11608, Stop: 12600, Start Num: 7

Candidate Starts for Phranny_18:

(Start: 7 @11608 has 112 MA's), (28, 11749), (39, 11869), (43, 11908), (45, 11941), (70, 12139), (77, 12208), (79, 12235), (86, 12316), (97, 12409), (102, 12454), (103, 12460), (105, 12493), (110, 12529), (113, 12553),

Gene: PickleBack_13 Start: 10621, Stop: 11553, Start Num: 13

Candidate Starts for PickleBack_13:

(Start: 13 @10621 has 49 MA's), (28, 10750), (33, 10822), (43, 10909), (45, 10942), (65, 11083), (79, 11206), (81, 11230), (87, 11290), (94, 11329), (96, 11350), (98, 11398), (105, 11455), (110, 11491), (113, 11515),

Gene: Pioneer_17 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for Pioneer_17:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: Pipcraft_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Pipcraft_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Piro94_17 Start: 12671, Stop: 13627, Start Num: 5

Candidate Starts for Piro94_17:

(Start: 5 @12671 has 300 MA's), (11, 12686), (19, 12731), (28, 12827), (31, 12869), (33, 12899), (35, 12923), (41, 12968), (45, 13019), (47, 13049), (61, 13154), (65, 13181), (70, 13208), (74, 13253), (94, 13412), (95, 13430), (97, 13466), (104, 13517),

Gene: Pistachio_16 Start: 10650, Stop: 11624, Start Num: 7

Candidate Starts for Pistachio_16:

(Start: 7 @10650 has 112 MA's), (28, 10791), (39, 10911), (43, 10950), (45, 10983), (73, 11220), (77, 11247), (79, 11274), (87, 11358), (97, 11448), (102, 11493), (103, 11499), (105, 11532), (110, 11568),

Gene: Pmask_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for Pmask_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: Pocahontas_16 Start: 11631, Stop: 12623, Start Num: 7

Candidate Starts for Pocahontas_16:

(Start: 7 @11631 has 112 MA's), (28, 11772), (43, 11931), (45, 11964), (68, 12156), (73, 12204), (77, 12231), (79, 12258), (86, 12339), (88, 12354), (94, 12378), (97, 12432), (102, 12477), (103, 12483), (105, 12516), (110, 12552), (115, 12594),

Gene: Polymorphads_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Polymorphads_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Pomar16_19 Start: 12128, Stop: 13084, Start Num: 4

Candidate Starts for Pomar16_19:

(Start: 4 @12128 has 70 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (48, 12527), (63, 12614), (65, 12626), (66, 12632), (70, 12653), (87, 12833), (94, 12857), (97, 12911), (114, 13058),

Gene: Poompha_14 Start: 9361, Stop: 10293, Start Num: 5

Candidate Starts for Poompha_14:

(Start: 5 @9361 has 300 MA's), (19, 9421), (26, 9499), (28, 9517), (29, 9532), (31, 9559), (33, 9589), (35, 9613), (41, 9658), (45, 9709), (66, 9859), (68, 9874), (73, 9922), (79, 9976), (104, 10189), (108, 10225), (109, 10243), (112, 10258),

Gene: Popcicle_16 Start: 11631, Stop: 12623, Start Num: 7

Candidate Starts for Popcicle_16:

(Start: 7 @11631 has 112 MA's), (28, 11772), (43, 11931), (45, 11964), (68, 12156), (73, 12204), (77, 12231), (79, 12258), (86, 12339), (88, 12354), (94, 12378), (97, 12432), (102, 12477), (103, 12483), (105, 12516), (110, 12552), (115, 12594),

Gene: PotatoSplit_18 Start: 11539, Stop: 12531, Start Num: 7

Candidate Starts for PotatoSplit_18:

(Start: 7 @11539 has 112 MA's), (28, 11680), (39, 11800), (43, 11839), (45, 11872), (56, 11983), (70, 12070), (79, 12166), (86, 12247), (91, 12274), (94, 12286), (97, 12340), (102, 12385), (103, 12391), (105, 12424), (110, 12460), (113, 12484),

Gene: Power_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for Power_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: Priamo_19 Start: 12258, Stop: 13229, Start Num: 4

Candidate Starts for Priamo_19:

(Start: 4 @12258 has 70 MA's), (19, 12318), (28, 12414), (31, 12456), (33, 12486), (35, 12510), (41, 12555), (45, 12606), (46, 12618), (47, 12636), (63, 12741), (84, 12927), (113, 13200),

Gene: Priya_17 Start: 12879, Stop: 13838, Start Num: 5

Candidate Starts for Priya_17:

(Start: 5 @12879 has 300 MA's), (19, 12939), (27, 13029), (28, 13035), (31, 13077), (33, 13107), (35, 13131), (41, 13176), (45, 13227), (46, 13239), (47, 13257), (63, 13380), (65, 13392), (94, 13623), (104, 13728),

Gene: Pukovnik_18 Start: 13817, Stop: 14773, Start Num: 5

Candidate Starts for Pukovnik_18:

(Start: 5 @13817 has 300 MA's), (19, 13877), (28, 13973), (31, 14015), (33, 14045), (35, 14069), (41, 14114), (45, 14165), (47, 14195), (61, 14300), (65, 14327), (70, 14354), (95, 14576), (97, 14612),

Gene: Pumbaa_15 Start: 11454, Stop: 12386, Start Num: 5

Candidate Starts for Pumbaa_15:

(Start: 5 @11454 has 300 MA's), (19, 11514), (28, 11610), (33, 11682), (35, 11706), (45, 11802), (47, 11832), (52, 11886), (75, 12030), (79, 12072), (97, 12234), (100, 12267), (104, 12285), (108, 12321), (112, 12354),

Gene: Puppy_16 Start: 10722, Stop: 11696, Start Num: 7

Candidate Starts for Puppy_16:

(Start: 7 @10722 has 112 MA's), (28, 10863), (39, 10983), (43, 11022), (45, 11055), (73, 11292), (77, 11319), (79, 11346), (87, 11430), (97, 11520), (102, 11565), (103, 11571), (105, 11604), (110, 11640),

Gene: PurpleHaze_17 Start: 11609, Stop: 12607, Start Num: 7

Candidate Starts for PurpleHaze_17:

(Start: 7 @11609 has 112 MA's), (28, 11750), (39, 11870), (43, 11909), (45, 11942), (70, 12140), (77, 12209), (79, 12236), (86, 12317), (97, 12410), (102, 12455), (103, 12461), (105, 12494), (110, 12530), (113, 12554),

Gene: Qobbit_17 Start: 12878, Stop: 13837, Start Num: 5

Candidate Starts for Qobbit_17:

(Start: 5 @12878 has 300 MA's), (19, 12938), (27, 13028), (28, 13034), (31, 13076), (33, 13106), (35, 13130), (41, 13175), (45, 13226), (46, 13238), (47, 13256), (63, 13379), (65, 13391), (94, 13622), (104, 13727),

Gene: QueenB2_16 Start: 12175, Stop: 13140, Start Num: 5

Candidate Starts for QueenB2_16:

(Start: 5 @12175 has 300 MA's), (19, 12235), (25, 12304), (28, 12331), (31, 12373), (33, 12403), (35, 12427), (41, 12472), (45, 12523), (57, 12637), (65, 12694), (70, 12721), (74, 12766), (94, 12925), (95, 12943), (97, 12979), (104, 13030),

Gene: QueenBeesly_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for QueenBeesly_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: QuinnKiro_15 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for QuinnKiro_15:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: RER2_5 Start: 4588, Stop: 5508, Start Num: 14

Candidate Starts for RER2_5:

(Start: 14 @4588 has 36 MA's), (28, 4717), (36, 4819), (42, 4861), (43, 4876), (45, 4909), (72, 5113), (83, 5209), (112, 5464),

Gene: RGL3_5 Start: 4576, Stop: 5496, Start Num: 14

Candidate Starts for RGL3_5:

(Start: 14 @4576 has 36 MA's), (28, 4705), (36, 4807), (42, 4849), (43, 4864), (45, 4897), (83, 5197), (85, 5230), (97, 5344), (113, 5464),

Gene: Rachaly_19 Start: 13848, Stop: 14795, Start Num: 10

Candidate Starts for Rachaly_19:

(8, 13842), (Start: 10 @13848 has 14 MA's), (19, 13899), (23, 13947), (28, 13995), (29, 14010), (31, 14037), (33, 14067), (38, 14106), (45, 14187), (54, 14289), (69, 14373), (79, 14472), (81, 14496), (92, 14571), (94, 14580), (97, 14634),

Gene: Rahalelujah_15 Start: 10914, Stop: 11882, Start Num: 5

Candidate Starts for Rahalelujah_15:

(Start: 5 @10914 has 300 MA's), (19, 10974), (28, 11070), (33, 11142), (35, 11166), (41, 11211), (45, 11262), (47, 11292), (61, 11397), (66, 11430), (70, 11451), (107, 11802),

Gene: Rasputin_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Rasputin_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: ReMo_18 Start: 11295, Stop: 12245, Start Num: 5

Candidate Starts for ReMo_18:

(Start: 5 @11295 has 300 MA's), (19, 11355), (28, 11451), (33, 11523), (35, 11547), (41, 11592), (45, 11643), (47, 11673), (96, 12051), (108, 12171), (113, 12216),

Gene: Reba_18 Start: 11281, Stop: 12273, Start Num: 7

Candidate Starts for Reba_18:

(Start: 7 @11281 has 112 MA's), (28, 11422), (39, 11542), (43, 11581), (45, 11614), (70, 11812), (77, 11881), (79, 11908), (86, 11989), (97, 12082), (102, 12127), (103, 12133), (105, 12166), (110, 12202), (113, 12226),

Gene: Rebeuca_16 Start: 11434, Stop: 12372, Start Num: 5

Candidate Starts for Rebeuca_16:

(Start: 5 @11434 has 300 MA's), (19, 11494), (26, 11572), (28, 11590), (29, 11605), (31, 11632), (33, 11662), (35, 11686), (45, 11782), (46, 11794), (47, 11812), (56, 11887), (60, 11908), (79, 12049), (80, 12070), (96, 12178), (97, 12211), (104, 12262), (108, 12298),

Gene: RedRock_19 Start: 14092, Stop: 15048, Start Num: 5

Candidate Starts for RedRock_19:

(Start: 5 @14092 has 300 MA's), (19, 14152), (25, 14221), (28, 14248), (31, 14290), (33, 14320), (35, 14344), (41, 14389), (45, 14440), (47, 14470), (49, 14500), (70, 14629), (74, 14674), (84, 14776), (95, 14851), (97, 14887), (104, 14938),

Gene: Refuge_19 Start: 14461, Stop: 15420, Start Num: 5

Candidate Starts for Refuge_19:

(Start: 5 @14461 has 300 MA's), (19, 14521), (25, 14590), (27, 14611), (28, 14617), (31, 14659), (33, 14689), (35, 14713), (41, 14758), (45, 14809), (47, 14839), (63, 14962), (65, 14974), (94, 15205),

(104, 15310),

Gene: Relief_15 Start: 11480, Stop: 12412, Start Num: 5

Candidate Starts for Relief_15:

(Start: 5 @11480 has 300 MA's), (19, 11540), (28, 11636), (33, 11708), (35, 11732), (45, 11828), (52, 11912), (75, 12056), (79, 12098), (97, 12260), (100, 12293), (104, 12311), (108, 12347), (112, 12380),

Gene: Remus_18 Start: 11256, Stop: 12206, Start Num: 5

Candidate Starts for Remus_18:

(Start: 5 @11256 has 300 MA's), (19, 11316), (28, 11412), (33, 11484), (35, 11508), (41, 11553), (45, 11604), (47, 11634), (96, 12012), (108, 12132), (113, 12177),

Gene: ResDef_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for ResDef_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Retro23_16 Start: 12258, Stop: 13214, Start Num: 5

Candidate Starts for Retro23_16:

(Start: 5 @12258 has 300 MA's), (19, 12318), (25, 12387), (28, 12414), (31, 12456), (33, 12486), (35, 12510), (41, 12555), (45, 12606), (47, 12636), (61, 12741), (70, 12795), (94, 12999), (95, 13017), (97, 13053), (104, 13104),

Gene: RexFury_12 Start: 7747, Stop: 8667, Start Num: 14

Candidate Starts for RexFury_12:

(Start: 14 @7747 has 36 MA's), (28, 7876), (36, 7978), (42, 8020), (43, 8035), (45, 8068), (72, 8272), (83, 8368), (112, 8623),

Gene: Rhodalysa_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Rhodalysa_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: RhynO_16 Start: 11413, Stop: 12348, Start Num: 5

Candidate Starts for RhynO_16:

(Start: 5 @11413 has 300 MA's), (19, 11473), (26, 11551), (28, 11569), (29, 11584), (31, 11611), (33, 11641), (35, 11665), (45, 11761), (47, 11791), (60, 11884), (79, 12025), (80, 12046), (96, 12154), (97, 12187), (104, 12238), (108, 12274),

Gene: Rifter_19 Start: 12208, Stop: 13179, Start Num: 4

Candidate Starts for Rifter_19:

(Start: 4 @12208 has 70 MA's), (19, 12268), (28, 12364), (31, 12406), (33, 12436), (35, 12460), (41, 12505), (45, 12556), (46, 12568), (47, 12586), (63, 12691),

Gene: Roary_13 Start: 10345, Stop: 11295, Start Num: 13

Candidate Starts for Roary_13:

(Start: 13 @10345 has 49 MA's), (28, 10474), (31, 10516), (43, 10633), (45, 10666), (50, 10741), (66, 10825), (77, 10915), (79, 10942), (83, 10975), (87, 11026), (94, 11065), (105, 11191), (110, 11227),

Gene: Rockstar_15 Start: 10980, Stop: 11978, Start Num: 7

Candidate Starts for Rockstar_15:

(Start: 7 @10980 has 112 MA's), (12, 10989), (28, 11121), (39, 11241), (43, 11280), (45, 11313), (56, 11424), (57, 11433), (73, 11550), (79, 11604), (86, 11685), (87, 11688), (97, 11778), (103, 11829), (105, 11862), (110, 11898),

Gene: Roksolana_19 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Roksolana_19:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904), (113, 13177),

Gene: Romney_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Romney_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Roosevelt_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Roosevelt_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Rosalind_18 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for Rosalind_18:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: Ruin_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Ruin_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Rummer_17 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for Rummer_17:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475), (105, 12508), (110, 12544), (113, 12568),

Gene: Sabertooth_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Sabertooth_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Sabia_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for Sabia_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384), (105, 12417), (110, 12453), (113, 12477),

Gene: Sabinator_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Sabinator_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Saintus_13 Start: 10360, Stop: 11310, Start Num: 13

Candidate Starts for Saintus_13:

(Start: 13 @10360 has 49 MA's), (28, 10489), (31, 10531), (43, 10648), (45, 10681), (50, 10756), (66, 10840), (77, 10930), (79, 10957), (83, 10990), (87, 11041), (94, 11080), (105, 11206), (110, 11242),

Gene: Salz_16 Start: 12696, Stop: 13685, Start Num: 4

Candidate Starts for Salz_16:

(Start: 4 @12696 has 70 MA's), (19, 12756), (22, 12786), (27, 12846), (28, 12852), (31, 12894), (33, 12924), (35, 12948), (41, 12993), (45, 13044), (46, 13056), (47, 13074), (57, 13158), (63, 13194), (65, 13206), (70, 13233), (97, 13491), (109, 13596),

Gene: SaturnRing_15 Start: 11103, Stop: 12077, Start Num: 7

Candidate Starts for SaturnRing_15:

(Start: 7 @11103 has 112 MA's), (28, 11244), (39, 11364), (43, 11403), (45, 11436), (73, 11673), (77, 11700), (79, 11727), (87, 11811), (97, 11901), (102, 11946), (103, 11952), (105, 11985), (110, 12021),

Gene: Scamp_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Scamp_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Scherzo_17 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for Scherzo_17:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: Scorpia_14 Start: 10600, Stop: 11541, Start Num: 13

Candidate Starts for Scorpia_14:

(Start: 13 @10600 has 49 MA's), (28, 10729), (33, 10801), (43, 10888), (45, 10921), (47, 10951), (65, 11062), (79, 11185), (81, 11209), (87, 11269), (94, 11308), (96, 11329), (98, 11377), (105, 11434), (110, 11470), (113, 11494),

Gene: Scout_15 Start: 10403, Stop: 11377, Start Num: 7

Candidate Starts for Scout_15:

(Start: 7 @10403 has 112 MA's), (12, 10412), (28, 10544), (39, 10664), (43, 10703), (45, 10736), (73, 10973), (77, 11000), (79, 11027), (87, 11111), (97, 11201), (102, 11246), (103, 11252), (105, 11285), (110, 11321),

Gene: SemperFi_18 Start: 12535, Stop: 13491, Start Num: 5

Candidate Starts for SemperFi_18:

(Start: 5 @12535 has 300 MA's), (19, 12595), (23, 12643), (28, 12691), (31, 12733), (33, 12763), (35, 12787), (41, 12832), (45, 12883), (47, 12913), (61, 13018), (65, 13045), (70, 13072), (94, 13276), (95, 13294), (97, 13330), (104, 13381),

Gene: Serenity_15 Start: 11078, Stop: 12034, Start Num: 5

Candidate Starts for Serenity_15:

(Start: 5 @11078 has 300 MA's), (19, 11138), (25, 11207), (28, 11234), (31, 11276), (33, 11306), (35, 11330), (41, 11375), (45, 11426), (61, 11561), (65, 11588), (70, 11615), (74, 11660), (94, 11819), (95, 11837), (97, 11873), (104, 11924),

Gene: Severus_14 Start: 9361, Stop: 10293, Start Num: 5

Candidate Starts for Severus_14:

(Start: 5 @9361 has 300 MA's), (19, 9421), (26, 9499), (28, 9517), (29, 9532), (31, 9559), (33, 9589), (35, 9613), (41, 9658), (45, 9709), (66, 9859), (68, 9874), (73, 9922), (79, 9976), (104, 10189), (108, 10225), (109, 10243), (112, 10258),

Gene: Shaka_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Shaka_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (47, 11857), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Sham4_16 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Sham4_16:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: ShayRa_19 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for ShayRa_19:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: SheaKeira_16 Start: 11082, Stop: 12050, Start Num: 5

Candidate Starts for SheaKeira_16:

(Start: 5 @11082 has 300 MA's), (19, 11142), (28, 11238), (31, 11280), (33, 11310), (35, 11334), (37, 11346), (41, 11379), (45, 11430), (47, 11460), (70, 11619), (79, 11715),

Gene: Sheen_17 Start: 13160, Stop: 14149, Start Num: 6

Candidate Starts for Sheen_17:

(Start: 6 @13160 has 1 MA's), (25, 13277), (28, 13304), (39, 13424), (40, 13436), (43, 13463), (45, 13496), (59, 13634), (64, 13661), (70, 13691), (78, 13766), (86, 13868), (91, 13895), (94, 13907), (95, 13925), (104, 14027), (105, 14048),

Gene: SheldonCooper_15 Start: 11458, Stop: 12390, Start Num: 5

Candidate Starts for SheldonCooper_15:

(Start: 5 @11458 has 300 MA's), (19, 11518), (28, 11614), (29, 11629), (33, 11686), (35, 11710), (45, 11806), (47, 11836), (52, 11890), (75, 12034), (79, 12076), (97, 12238), (100, 12271), (104, 12289), (108, 12325), (112, 12358),

Gene: Shuman_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Shuman_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Shygu2_15 Start: 11486, Stop: 12418, Start Num: 5

Candidate Starts for Shygu2_15:

(Start: 5 @11486 has 300 MA's), (19, 11546), (28, 11642), (33, 11714), (35, 11738), (45, 11834), (52, 11918), (75, 12062), (79, 12104), (97, 12266), (100, 12299), (104, 12317), (108, 12353), (112, 12386),

Gene: Skipitt_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Skipitt_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Smeadley_13 Start: 10378, Stop: 11328, Start Num: 13

Candidate Starts for Smeadley_13:

(Start: 13 @10378 has 49 MA's), (28, 10507), (31, 10549), (43, 10666), (45, 10699), (50, 10774), (66, 10858), (77, 10948), (79, 10975), (83, 11008), (87, 11059), (94, 11098), (105, 11224), (110, 11260),

Gene: Smeagan_18 Start: 12620, Stop: 13576, Start Num: 5

Candidate Starts for Smeagan_18:

(Start: 5 @12620 has 300 MA's), (19, 12680), (23, 12728), (25, 12749), (28, 12776), (31, 12818), (33, 12848), (35, 12872), (45, 12968), (46, 12980), (61, 13103), (65, 13130), (70, 13157), (74, 13202), (94, 13361), (95, 13379), (97, 13415), (104, 13466),

Gene: SmellyB_19 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for SmellyB_19:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: SnapTap_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for SnapTap_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (35, 12359), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: Snape_16 Start: 12702, Stop: 13691, Start Num: 4

Candidate Starts for Snape_16:

(Start: 4 @12702 has 70 MA's), (19, 12762), (22, 12792), (27, 12852), (28, 12858), (31, 12900), (33, 12930), (35, 12954), (41, 12999), (45, 13050), (46, 13062), (47, 13080), (57, 13164), (63, 13200), (65, 13212), (70, 13239), (97, 13497), (109, 13602),

Gene: Snickers_17 Start: 11513, Stop: 12505, Start Num: 7

Candidate Starts for Snickers_17:

(Start: 7 @11513 has 112 MA's), (28, 11654), (39, 11774), (43, 11813), (45, 11846), (56, 11957), (70, 12044), (79, 12140), (86, 12221), (91, 12248), (94, 12260), (97, 12314), (102, 12359), (103, 12365), (105, 12398), (110, 12434), (113, 12458),

Gene: SoYo_17 Start: 11450, Stop: 12442, Start Num: 7

Candidate Starts for SoYo_17:

(Start: 7 @11450 has 112 MA's), (28, 11591), (39, 11711), (43, 11750), (45, 11783), (56, 11894), (70, 11981), (79, 12077), (86, 12158), (91, 12185), (94, 12197), (97, 12251), (102, 12296), (103, 12302), (105, 12335), (110, 12371), (113, 12395),

Gene: SoilDragon_17 Start: 11224, Stop: 12216, Start Num: 7

Candidate Starts for SoilDragon_17:

(Start: 7 @11224 has 112 MA's), (28, 11365), (39, 11485), (43, 11524), (45, 11557), (56, 11668), (70, 11755), (79, 11851), (86, 11932), (91, 11959), (94, 11971), (97, 12025), (102, 12070), (103, 12076), (105, 12109), (110, 12145), (113, 12169),

Gene: SororFago_15 Start: 11241, Stop: 12188, Start Num: 10

Candidate Starts for SororFago_15:

(Start: 10 @11241 has 14 MA's), (19, 11292), (28, 11388), (29, 11403), (31, 11430), (33, 11460), (38, 11499), (41, 11529), (45, 11580), (61, 11715), (94, 11973), (97, 12027), (104, 12078),

Gene: Soshari_19 Start: 11622, Stop: 12614, Start Num: 7

Candidate Starts for Soshari_19:

(Start: 7 @11622 has 112 MA's), (28, 11763), (39, 11883), (43, 11922), (45, 11955), (56, 12066), (70, 12153), (79, 12249), (86, 12330), (91, 12357), (94, 12369), (97, 12423), (102, 12468), (103, 12474), (105, 12507), (110, 12543), (113, 12567),

Gene: Soups_18 Start: 11417, Stop: 12367, Start Num: 5

Candidate Starts for Soups_18:

(Start: 5 @11417 has 300 MA's), (19, 11477), (28, 11573), (33, 11645), (35, 11669), (41, 11714), (45, 11765), (47, 11795), (96, 12173), (108, 12293), (113, 12338),

Gene: Spartoi_6 Start: 4700, Stop: 5608, Start Num: 16

Candidate Starts for Spartoi_6:

(Start: 16 @4700 has 1 MA's), (25, 4799), (30, 4853), (35, 4922), (44, 5009), (56, 5129), (75, 5255), (76, 5258), (77, 5270), (107, 5540),

Gene: Sparxx_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Sparxx_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Spike509_17 Start: 11623, Stop: 12615, Start Num: 7

Candidate Starts for Spike509_17:

(Start: 7 @11623 has 112 MA's), (28, 11764), (39, 11884), (43, 11923), (45, 11956), (56, 12067), (70, 12154), (79, 12250), (86, 12331), (91, 12358), (94, 12370), (97, 12424), (102, 12469), (103, 12475), (105, 12508), (110, 12544), (113, 12568),

Gene: Spino_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Spino_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Spouty_16 Start: 12878, Stop: 13837, Start Num: 5

Candidate Starts for Spouty_16:

(Start: 5 @12878 has 300 MA's), (19, 12938), (27, 13028), (28, 13034), (31, 13076), (33, 13106), (35, 13130), (41, 13175), (45, 13226), (46, 13238), (47, 13256), (63, 13379), (65, 13391), (94, 13622), (104, 13727),

Gene: StCroix_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for StCroix_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Stagni_17 Start: 11541, Stop: 12533, Start Num: 7

Candidate Starts for Stagni_17:

(Start: 7 @11541 has 112 MA's), (28, 11682), (39, 11802), (43, 11841), (45, 11874), (56, 11985), (70, 12072), (79, 12168), (86, 12249), (91, 12276), (94, 12288), (97, 12342), (102, 12387), (103, 12393), (105, 12426), (110, 12462), (113, 12486),

Gene: StarStuff_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for StarStuff_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: Stasia_16 Start: 11927, Stop: 12865, Start Num: 5

Candidate Starts for Stasia_16:

(Start: 5 @11927 has 300 MA's), (19, 11987), (28, 12083), (33, 12155), (35, 12179), (45, 12275), (47, 12305), (53, 12365), (56, 12380), (79, 12542), (97, 12704), (108, 12791),

Gene: Steamy_17 Start: 12661, Stop: 13617, Start Num: 5

Candidate Starts for Steamy_17:

(Start: 5 @12661 has 300 MA's), (19, 12721), (28, 12817), (31, 12859), (33, 12889), (35, 12913), (45, 13009), (46, 13021), (47, 13039), (63, 13159), (65, 13171), (94, 13402), (104, 13507), (112, 13576),

Gene: StepMih_17 Start: 11532, Stop: 12524, Start Num: 7

Candidate Starts for StepMih_17:

(Start: 7 @11532 has 112 MA's), (28, 11673), (39, 11793), (43, 11832), (45, 11865), (56, 11976), (70, 12063), (79, 12159), (86, 12240), (91, 12267), (94, 12279), (97, 12333), (102, 12378), (103, 12384), (105, 12417), (110, 12453), (113, 12477),

Gene: Stephig9_13 Start: 10359, Stop: 11309, Start Num: 13

Candidate Starts for Stephig9_13:

(Start: 13 @10359 has 49 MA's), (28, 10488), (31, 10530), (43, 10647), (45, 10680), (50, 10755), (66, 10839), (77, 10929), (79, 10956), (83, 10989), (87, 11040), (94, 11079), (105, 11205), (110, 11241),

Gene: Stink_15 Start: 11448, Stop: 12380, Start Num: 5

Candidate Starts for Stink_15:

(Start: 5 @11448 has 300 MA's), (19, 11508), (28, 11604), (29, 11619), (33, 11676), (35, 11700), (45, 11796), (47, 11826), (52, 11880), (79, 12066), (97, 12228), (100, 12261), (104, 12279), (112, 12348),

Gene: Strosahl_18 Start: 11256, Stop: 12206, Start Num: 5

Candidate Starts for Strosahl_18:

(Start: 5 @11256 has 300 MA's), (19, 11316), (28, 11412), (33, 11484), (35, 11508), (41, 11553), (45, 11604), (47, 11634), (96, 12012), (108, 12132), (113, 12177),

Gene: SuperAwesome_19 Start: 12230, Stop: 13201, Start Num: 4

Candidate Starts for SuperAwesome_19:

(Start: 4 @12230 has 70 MA's), (19, 12290), (28, 12386), (31, 12428), (33, 12458), (35, 12482), (41, 12527), (45, 12578), (46, 12590), (47, 12608), (63, 12713), (84, 12899), (113, 13172),

Gene: SuperCallie99_19 Start: 12231, Stop: 13202, Start Num: 4

Candidate Starts for SuperCallie99_19:

(Start: 4 @12231 has 70 MA's), (19, 12291), (28, 12387), (31, 12429), (33, 12459), (35, 12483), (41, 12528), (45, 12579), (46, 12591), (47, 12609), (63, 12714), (84, 12900),

Gene: Superchunk_15 Start: 10834, Stop: 11790, Start Num: 5

Candidate Starts for Superchunk_15:

(Start: 5 @10834 has 300 MA's), (19, 10894), (27, 10984), (28, 10990), (31, 11032), (33, 11062), (35, 11086), (41, 11131), (45, 11182), (46, 11194), (47, 11212), (70, 11371), (74, 11416), (83, 11500), (94, 11575),

Gene: Swann_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for Swann_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: SweetiePie_16 Start: 12107, Stop: 13063, Start Num: 5

Candidate Starts for SweetiePie_16:

(Start: 5 @12107 has 300 MA's), (19, 12167), (25, 12236), (28, 12263), (31, 12305), (33, 12335), (35, 12359), (41, 12404), (45, 12455), (47, 12485), (61, 12590), (70, 12644), (94, 12848), (95, 12866), (97, 12902), (104, 12953),

Gene: SwirlSquare_18 Start: 10998, Stop: 11969, Start Num: 3

Candidate Starts for SwirlSquare_18:

(Start: 3 @10998 has 1 MA's), (19, 11073), (25, 11142), (27, 11163), (28, 11169), (31, 11211), (33, 11241), (35, 11265), (41, 11310), (45, 11361), (47, 11391), (70, 11550), (83, 11679),

Gene: Swirley_13 Start: 10769, Stop: 11701, Start Num: 13

Candidate Starts for Swirley_13:

(Start: 13 @10769 has 49 MA's), (28, 10898), (31, 10940), (33, 10970), (43, 11057), (45, 11090), (79, 11354), (81, 11378), (87, 11438), (94, 11477), (96, 11498), (98, 11546), (105, 11603), (110, 11639), (113, 11663),

Gene: Switzerland_18 Start: 11410, Stop: 12360, Start Num: 5

Candidate Starts for Switzerland_18:

(Start: 5 @11410 has 300 MA's), (19, 11470), (28, 11566), (33, 11638), (35, 11662), (41, 11707), (45, 11758), (47, 11788), (96, 12166), (108, 12286), (113, 12331),

Gene: SydNat_13 Start: 10876, Stop: 11808, Start Num: 13

Candidate Starts for SydNat_13:

(Start: 13 @10876 has 49 MA's), (28, 11005), (31, 11047), (33, 11077), (43, 11164), (45, 11197), (65, 11338), (79, 11461), (81, 11485), (87, 11545), (94, 11584), (96, 11605), (98, 11653), (105, 11710), (110, 11746), (113, 11770),

Gene: TNguyen7_15 Start: 11073, Stop: 12047, Start Num: 7

Candidate Starts for TNguyen7_15:

(Start: 7 @11073 has 112 MA's), (28, 11214), (39, 11334), (43, 11373), (45, 11406), (73, 11643), (77, 11670), (79, 11697), (87, 11781), (97, 11871), (102, 11916), (103, 11922), (105, 11955), (110, 11991),

Gene: TWAMP_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for TWAMP_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Takoda_12 Start: 7693, Stop: 8595, Start Num: 14

Candidate Starts for Takoda_12:

(Start: 14 @7693 has 36 MA's), (28, 7822), (36, 7924), (42, 7966), (43, 7981), (45, 8014), (77, 8269), (83, 8329), (85, 8362),

Gene: Taquarus_15 Start: 11482, Stop: 12414, Start Num: 5

Candidate Starts for Taquarus_15:

(Start: 5 @11482 has 300 MA's), (19, 11542), (28, 11638), (33, 11710), (35, 11734), (45, 11830), (52, 11914), (75, 12058), (79, 12100), (97, 12262), (100, 12295), (104, 12313), (108, 12349), (112, 12382),

Gene: Target_17 Start: 12395, Stop: 13588, Start Num: 10

Candidate Starts for Target_17:

(Start: 10 @12395 has 14 MA's), (19, 12443), (20, 12467), (28, 12539), (33, 12611), (35, 12635), (38, 12650), (45, 12731), (47, 12761), (67, 12887), (77, 12968), (79, 12995), (92, 13094), (112, 13277), (113, 13289), (118, 13421), (120, 13454), (122, 13475), (124, 13508),

Gene: TarsusIV_16 Start: 12206, Stop: 13162, Start Num: 5

Candidate Starts for TarsusIV_16:

(Start: 5 @12206 has 300 MA's), (19, 12266), (23, 12314), (28, 12362), (31, 12404), (33, 12434), (35, 12458), (45, 12554), (46, 12566), (61, 12689), (65, 12716), (70, 12743), (74, 12788), (94, 12947), (95, 12965), (104, 13052),

Gene: Tarynearal_12 Start: 10796, Stop: 11728, Start Num: 13

Candidate Starts for Tarynearal_12:

(Start: 13 @10796 has 49 MA's), (28, 10925), (31, 10967), (33, 10997), (43, 11084), (45, 11117), (79, 11381), (81, 11405), (87, 11465), (94, 11504), (96, 11525), (98, 11573), (105, 11630), (110, 11666), (113, 11690),

Gene: Taurus_17 Start: 11537, Stop: 12529, Start Num: 7

Candidate Starts for Taurus_17:

(Start: 7 @11537 has 112 MA's), (28, 11678), (39, 11798), (43, 11837), (45, 11870), (56, 11981), (70, 12068), (79, 12164), (86, 12245), (91, 12272), (94, 12284), (97, 12338), (102, 12383), (103, 12389), (105, 12422), (110, 12458), (113, 12482),

Gene: Texage_15 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Texage_15:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Thanksgivukkah_15 Start: 11484, Stop: 12416, Start Num: 5

Candidate Starts for Thanksgivukkah_15:

(Start: 5 @11484 has 300 MA's), (19, 11544), (28, 11640), (33, 11712), (35, 11736), (45, 11832), (47, 11862), (52, 11916), (75, 12060), (79, 12102), (97, 12264), (100, 12297), (104, 12315), (108, 12351), (112, 12384),

Gene: Theia_12 Start: 10735, Stop: 11667, Start Num: 13

Candidate Starts for Theia_12:

(Start: 13 @10735 has 49 MA's), (28, 10864), (31, 10906), (33, 10936), (43, 11023), (45, 11056), (79, 11320), (81, 11344), (87, 11404), (94, 11443), (96, 11464), (98, 11512), (105, 11569), (110, 11605), (113, 11629),

Gene: Tiffany_17 Start: 11433, Stop: 12425, Start Num: 7

Candidate Starts for Tiffany_17:

(Start: 7 @11433 has 112 MA's), (28, 11574), (39, 11694), (43, 11733), (45, 11766), (56, 11877), (70, 11964), (79, 12060), (86, 12141), (91, 12168), (94, 12180), (97, 12234), (102, 12279), (103, 12285), (105, 12318), (110, 12354), (113, 12378),

Gene: Tiger_13 Start: 10616, Stop: 11554, Start Num: 13

Candidate Starts for Tiger_13:

(Start: 13 @10616 has 49 MA's), (28, 10745), (31, 10787), (33, 10817), (43, 10904), (45, 10937), (79, 11201), (81, 11225), (87, 11285), (94, 11324), (96, 11345), (98, 11393), (105, 11450), (110, 11486), (113, 11510),

Gene: Timothy_16 Start: 12699, Stop: 13688, Start Num: 4

Candidate Starts for Timothy_16:

(Start: 4 @12699 has 70 MA's), (19, 12759), (22, 12789), (27, 12849), (28, 12855), (31, 12897), (33, 12927), (35, 12951), (41, 12996), (45, 13047), (46, 13059), (47, 13077), (57, 13161), (63, 13197), (65, 13209), (70, 13236), (97, 13494), (109, 13599),

Gene: Timshel_16 Start: 13055, Stop: 14014, Start Num: 5

Candidate Starts for Timshel_16:

(Start: 5 @13055 has 300 MA's), (19, 13115), (25, 13184), (28, 13211), (29, 13226), (33, 13283), (36, 13313), (45, 13403), (68, 13589), (79, 13691), (97, 13865), (104, 13916), (108, 13952),

Gene: TinaFeyge_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for TinaFeyge_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: TinyTimmy_15 Start: 12751, Stop: 13731, Start Num: 4

Candidate Starts for TinyTimmy_15:

(Start: 4 @12751 has 70 MA's), (19, 12811), (22, 12841), (27, 12901), (28, 12907), (31, 12949), (33, 12979), (35, 13003), (41, 13048), (45, 13099), (46, 13111), (47, 13129), (57, 13213), (63, 13249), (65, 13261), (70, 13288), (97, 13546), (109, 13651),

Gene: Tinybot_14 Start: 11460, Stop: 12392, Start Num: 5

Candidate Starts for Tinybot_14:

(Start: 5 @11460 has 300 MA's), (19, 11520), (28, 11616), (33, 11688), (35, 11712), (45, 11808), (47, 11838), (52, 11892), (75, 12036), (79, 12078), (89, 12177), (97, 12240), (100, 12273), (104, 12291), (108, 12327), (112, 12360),

Gene: TopsytheTRex_15 Start: 11216, Stop: 12193, Start Num: 5

Candidate Starts for TopsytheTRex_15:

(Start: 5 @11216 has 300 MA's), (19, 11276), (21, 11303), (28, 11372), (31, 11414), (33, 11444), (35, 11468), (45, 11564), (47, 11594), (69, 11735), (70, 11738), (79, 11837), (80, 11858), (92, 11972), (94, 11981), (101, 12074), (104, 12086),

Gene: TiroTheta9_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for TiroTheta9_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Toaka_15 Start: 11211, Stop: 12179, Start Num: 5

Candidate Starts for Toaka_15:

(Start: 5 @11211 has 300 MA's), (15, 11235), (19, 11271), (25, 11340), (28, 11367), (33, 11439), (35, 11463), (45, 11559), (46, 11571), (47, 11589), (61, 11694), (66, 11727), (70, 11748),

Gene: Todacoro_16 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Todacoro_16:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Tomathan_19 Start: 12087, Stop: 13043, Start Num: 4

Candidate Starts for Tomathan_19:

(Start: 4 @12087 has 70 MA's), (19, 12147), (27, 12237), (28, 12243), (31, 12285), (33, 12315), (35, 12339), (41, 12384), (45, 12435), (46, 12447), (47, 12465), (48, 12486), (63, 12573), (65, 12585), (66, 12591), (70, 12612), (87, 12792), (94, 12816), (97, 12870), (114, 13017),

Gene: ToneTone_18 Start: 12148, Stop: 13119, Start Num: 4

Candidate Starts for ToneTone_18:

(Start: 4 @12148 has 70 MA's), (19, 12208), (28, 12304), (31, 12346), (33, 12376), (35, 12400), (41, 12445), (45, 12496), (46, 12508), (47, 12526), (63, 12631), (84, 12817), (113, 13090),

Gene: Topanga_15 Start: 11384, Stop: 12325, Start Num: 5

Candidate Starts for Topanga_15:

(Start: 5 @11384 has 300 MA's), (19, 11444), (26, 11522), (28, 11540), (29, 11555), (31, 11582), (33, 11612), (35, 11636), (45, 11732), (46, 11744), (47, 11762), (56, 11837), (60, 11858), (73, 11945), (79, 11999), (96, 12128), (97, 12161), (104, 12212), (108, 12248),

Gene: Trike_13 Start: 9357, Stop: 10295, Start Num: 5

Candidate Starts for Trike_13:

(Start: 5 @9357 has 300 MA's), (19, 9417), (28, 9513), (29, 9528), (31, 9555), (33, 9585), (35, 9609), (41, 9654), (45, 9705), (47, 9735), (63, 9837), (73, 9918), (79, 9972), (104, 10185), (108, 10221), (112, 10254),

Gene: Trixie_19 Start: 13819, Stop: 14775, Start Num: 5

Candidate Starts for Trixie_19:

(Start: 5 @13819 has 300 MA's), (19, 13879), (25, 13948), (28, 13975), (31, 14017), (33, 14047), (35, 14071), (41, 14116), (45, 14167), (47, 14197), (61, 14302), (65, 14329), (74, 14401), (84, 14503), (94, 14560), (95, 14578), (97, 14614), (104, 14665),

Gene: Trooper_16 Start: 11994, Stop: 12953, Start Num: 5

Candidate Starts for Trooper_16:

(Start: 5 @11994 has 300 MA's), (19, 12057), (25, 12126), (28, 12153), (31, 12195), (33, 12225), (35, 12249), (41, 12294), (45, 12345), (46, 12357), (47, 12375), (61, 12480), (65, 12507), (70, 12534), (94, 12738), (95, 12756),

Gene: TroyPia_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for TroyPia_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Tubs_17 Start: 12848, Stop: 13807, Start Num: 5

Candidate Starts for Tubs_17:

(Start: 5 @12848 has 300 MA's), (19, 12908), (27, 12998), (28, 13004), (31, 13046), (33, 13076), (35, 13100), (41, 13145), (45, 13196), (46, 13208), (47, 13226), (63, 13349), (65, 13361), (94, 13592), (104, 13697),

Gene: Tucker_19 Start: 12235, Stop: 13206, Start Num: 4

Candidate Starts for Tucker_19:

(Start: 4 @12235 has 70 MA's), (19, 12295), (28, 12391), (31, 12433), (33, 12463), (35, 12487), (41, 12532), (45, 12583), (46, 12595), (47, 12613), (63, 12718), (84, 12904),

Gene: Turbido_18 Start: 12647, Stop: 13603, Start Num: 5

Candidate Starts for Turbido_18:

(Start: 5 @12647 has 300 MA's), (19, 12707), (23, 12755), (25, 12776), (28, 12803), (31, 12845), (33, 12875), (35, 12899), (45, 12995), (46, 13007), (61, 13130), (65, 13157), (70, 13184), (74, 13229), (94, 13388), (95, 13406), (97, 13442), (104, 13493),

Gene: Twister_15 Start: 11283, Stop: 12224, Start Num: 5

Candidate Starts for Twister_15:

(Start: 5 @11283 has 300 MA's), (19, 11343), (26, 11421), (28, 11439), (29, 11454), (31, 11481), (33, 11511), (35, 11535), (45, 11631), (46, 11643), (47, 11661), (56, 11736), (60, 11757), (73, 11844), (79,

11898), (96, 12027), (97, 12060), (104, 12111), (108, 12147),

Gene: TygerBlood_15 Start: 11481, Stop: 12413, Start Num: 5

Candidate Starts for TygerBlood_15:

(Start: 5 @11481 has 300 MA's), (19, 11541), (28, 11637), (33, 11709), (35, 11733), (45, 11829), (52, 11913), (75, 12057), (79, 12099), (97, 12261), (100, 12294), (104, 12312), (108, 12348), (112, 12381),

Gene: Ugenie5_14 Start: 12881, Stop: 13840, Start Num: 5

Candidate Starts for Ugenie5_14:

(Start: 5 @12881 has 300 MA's), (19, 12941), (27, 13031), (28, 13037), (31, 13079), (33, 13109), (35, 13133), (41, 13178), (45, 13229), (46, 13241), (47, 13259), (63, 13382), (65, 13394), (94, 13625), (104, 13730),

Gene: UhSalsa_12 Start: 7716, Stop: 8636, Start Num: 14

Candidate Starts for UhSalsa_12:

(Start: 14 @7716 has 36 MA's), (28, 7845), (36, 7947), (42, 7989), (43, 8004), (45, 8037), (72, 8241), (83, 8337), (112, 8592),

Gene: Ulysses_14 Start: 11200, Stop: 12132, Start Num: 5

Candidate Starts for Ulysses_14:

(Start: 5 @11200 has 300 MA's), (19, 11260), (28, 11356), (33, 11428), (35, 11452), (45, 11548), (47, 11578), (52, 11632), (75, 11776), (79, 11818), (97, 11980), (100, 12013), (104, 12031), (108, 12067), (112, 12100),

Gene: UnionJack_13 Start: 10339, Stop: 11280, Start Num: 13

Candidate Starts for UnionJack_13:

(Start: 13 @10339 has 49 MA's), (28, 10468), (33, 10540), (43, 10627), (45, 10660), (65, 10801), (79, 10924), (81, 10948), (87, 11008), (94, 11047), (96, 11068), (98, 11116), (105, 11173), (110, 11209), (113, 11233),

Gene: Updawg_18 Start: 12655, Stop: 13611, Start Num: 5

Candidate Starts for Updawg_18:

(Start: 5 @12655 has 300 MA's), (19, 12715), (25, 12784), (28, 12811), (31, 12853), (33, 12883), (35, 12907), (41, 12952), (45, 13003), (46, 13015), (61, 13138), (65, 13165), (70, 13192), (74, 13237), (94, 13396), (95, 13414), (97, 13450), (104, 13501),

Gene: VA6_16 Start: 12170, Stop: 13126, Start Num: 5

Candidate Starts for VA6_16:

(Start: 5 @12170 has 300 MA's), (15, 12194), (19, 12230), (28, 12326), (31, 12368), (33, 12398), (35, 12422), (41, 12467), (45, 12518), (46, 12530), (49, 12578), (65, 12680), (71, 12737), (97, 12965), (104, 13016),

Gene: VC3_19 Start: 12128, Stop: 13129, Start Num: 5

Candidate Starts for VC3_19:

(Start: 5 @12128 has 300 MA's), (19, 12188), (27, 12278), (28, 12284), (31, 12326), (33, 12356), (35, 12380), (41, 12425), (45, 12476), (46, 12488), (47, 12506), (67, 12656), (97, 12956), (104, 13007), (112, 13076), (113, 13088),

Gene: Vanisoa_15 Start: 10928, Stop: 11896, Start Num: 5

Candidate Starts for Vanisoa_15:

(Start: 5 @10928 has 300 MA's), (19, 10988), (28, 11084), (33, 11156), (35, 11180), (41, 11225), (45, 11276), (47, 11306), (61, 11411), (70, 11465),

Gene: Veracruz_15 Start: 11634, Stop: 12626, Start Num: 7

Candidate Starts for Veracruz_15:

(Start: 7 @11634 has 112 MA's), (28, 11775), (43, 11934), (45, 11967), (68, 12159), (73, 12207), (77, 12234), (79, 12261), (86, 12342), (88, 12357), (94, 12381), (97, 12435), (102, 12480), (103, 12486), (105, 12519), (110, 12555), (115, 12597),

Gene: Vix_17 Start: 11621, Stop: 12613, Start Num: 7

Candidate Starts for Vix_17:

(Start: 7 @11621 has 112 MA's), (28, 11762), (39, 11882), (43, 11921), (45, 11954), (56, 12065), (70, 12152), (79, 12248), (86, 12329), (91, 12356), (94, 12368), (97, 12422), (102, 12467), (103, 12473), (105, 12506), (110, 12542), (113, 12566),

Gene: VohminGhazi_19 Start: 12240, Stop: 13211, Start Num: 4

Candidate Starts for VohminGhazi_19:

(Start: 4 @12240 has 70 MA's), (19, 12300), (28, 12396), (31, 12438), (33, 12468), (35, 12492), (41, 12537), (45, 12588), (46, 12600), (47, 12618), (63, 12723), (84, 12909), (113, 13182),

Gene: Waits_18 Start: 11262, Stop: 12212, Start Num: 5

Candidate Starts for Waits_18:

(Start: 5 @11262 has 300 MA's), (19, 11322), (28, 11418), (33, 11490), (35, 11514), (41, 11559), (45, 11610), (47, 11640), (96, 12018), (108, 12138), (113, 12183),

Gene: WalterMcMickey_15 Start: 11283, Stop: 12224, Start Num: 5

Candidate Starts for WalterMcMickey_15:

(Start: 5 @11283 has 300 MA's), (19, 11343), (26, 11421), (28, 11439), (29, 11454), (31, 11481), (33, 11511), (35, 11535), (45, 11631), (46, 11643), (47, 11661), (56, 11736), (60, 11757), (73, 11844), (79, 11898), (96, 12027), (97, 12060), (104, 12111), (108, 12147),

Gene: Wander_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for Wander_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Watson_17 Start: 11531, Stop: 12523, Start Num: 7

Candidate Starts for Watson_17:

(Start: 7 @11531 has 112 MA's), (28, 11672), (39, 11792), (43, 11831), (45, 11864), (56, 11975), (70, 12062), (79, 12158), (86, 12239), (91, 12266), (94, 12278), (97, 12332), (102, 12377), (103, 12383), (105, 12416), (110, 12452), (113, 12476),

Gene: WeiHuaDA_22 Start: 14421, Stop: 15377, Start Num: 5

Candidate Starts for WeiHuaDA_22:

(Start: 5 @14421 has 300 MA's), (19, 14481), (25, 14550), (28, 14577), (31, 14619), (33, 14649), (35, 14673), (41, 14718), (45, 14769), (46, 14781), (47, 14799), (61, 14904), (65, 14931), (70, 14958), (94, 15162), (95, 15180), (97, 15216), (101, 15255),

Gene: Whabigail7_18 Start: 12635, Stop: 13591, Start Num: 5

Candidate Starts for Whabigail7_18:

(Start: 5 @12635 has 300 MA's), (19, 12695), (23, 12743), (25, 12764), (28, 12791), (31, 12833), (33, 12863), (35, 12887), (45, 12983), (46, 12995), (61, 13118), (65, 13145), (70, 13172), (74, 13217), (94, 13376), (95, 13394), (97, 13430), (104, 13481),

Gene: WideWale_18 Start: 12655, Stop: 13611, Start Num: 5

Candidate Starts for WideWale_18:

(Start: 5 @12655 has 300 MA's), (19, 12715), (25, 12784), (28, 12811), (31, 12853), (33, 12883), (35, 12907), (41, 12952), (45, 13003), (46, 13015), (61, 13138), (65, 13165), (70, 13192), (74, 13237), (94, 13396), (95, 13414), (97, 13450), (104, 13501),

Gene: Wiks_19 Start: 12216, Stop: 13187, Start Num: 4

Candidate Starts for Wiks_19:

(Start: 4 @12216 has 70 MA's), (19, 12276), (28, 12372), (31, 12414), (33, 12444), (35, 12468), (41, 12513), (45, 12564), (46, 12576), (47, 12594), (63, 12699), (84, 12885), (113, 13158),

Gene: Wilbur_15 Start: 11478, Stop: 12410, Start Num: 5

Candidate Starts for Wilbur_15:

(Start: 5 @11478 has 300 MA's), (19, 11538), (28, 11634), (33, 11706), (35, 11730), (45, 11826), (52, 11910), (75, 12054), (79, 12096), (97, 12258), (100, 12291), (104, 12309), (108, 12345), (112, 12378),

Gene: Wile_15 Start: 11501, Stop: 12433, Start Num: 5

Candidate Starts for Wile_15:

(Start: 5 @11501 has 300 MA's), (19, 11561), (28, 11657), (29, 11672), (32, 11714), (33, 11729), (35, 11753), (45, 11849), (47, 11879), (52, 11933), (75, 12077), (79, 12119), (97, 12281), (104, 12332), (108, 12368), (112, 12401),

Gene: Wizard007_15 Start: 11481, Stop: 12413, Start Num: 5

Candidate Starts for Wizard007_15:

(Start: 5 @11481 has 300 MA's), (19, 11541), (28, 11637), (33, 11709), (35, 11733), (45, 11829), (52, 11913), (75, 12057), (79, 12099), (97, 12261), (100, 12294), (104, 12312), (108, 12348), (112, 12381),

Gene: Wooldri_19 Start: 11450, Stop: 12442, Start Num: 7

Candidate Starts for Wooldri_19:

(Start: 7 @11450 has 112 MA's), (28, 11591), (39, 11711), (43, 11750), (45, 11783), (56, 11894), (70, 11981), (79, 12077), (86, 12158), (91, 12185), (94, 12197), (97, 12251), (102, 12296), (103, 12302), (105, 12335), (110, 12371), (113, 12395),

Gene: WunderPhul_19 Start: 12216, Stop: 13187, Start Num: 4

Candidate Starts for WunderPhul_19:

(Start: 4 @12216 has 70 MA's), (19, 12276), (28, 12372), (31, 12414), (33, 12444), (35, 12468), (41, 12513), (45, 12564), (46, 12576), (47, 12594), (63, 12699), (84, 12885), (113, 13158),

Gene: Xena_15 Start: 11488, Stop: 12420, Start Num: 5

Candidate Starts for Xena_15:

(Start: 5 @11488 has 300 MA's), (19, 11548), (28, 11644), (29, 11659), (33, 11716), (35, 11740), (45, 11836), (52, 11920), (75, 12064), (79, 12106), (97, 12268), (104, 12319), (108, 12355), (112, 12388),

Gene: XianYue_16 Start: 12113, Stop: 13081, Start Num: 3

Candidate Starts for XianYue_16:

(Start: 3 @12113 has 1 MA's), (19, 12188), (21, 12215), (25, 12257), (28, 12284), (31, 12326), (33, 12356), (45, 12476), (47, 12506), (65, 12638), (70, 12665), (94, 12869), (101, 12962), (104, 12974),

Gene: Yecey3_16 Start: 11004, Stop: 11972, Start Num: 5

Candidate Starts for Yecey3_16:

(Start: 5 @11004 has 300 MA's), (19, 11064), (28, 11160), (33, 11232), (35, 11256), (41, 11301), (45, 11352), (46, 11364), (47, 11382), (61, 11487), (66, 11520), (70, 11541),

Gene: YoSam321_15 Start: 11479, Stop: 12411, Start Num: 5

Candidate Starts for YoSam321_15:

(Start: 5 @11479 has 300 MA's), (19, 11539), (28, 11635), (33, 11707), (35, 11731), (45, 11827), (52, 11911), (75, 12055), (79, 12097), (97, 12259), (100, 12292), (104, 12310), (108, 12346), (112, 12379),

Gene: Yogi_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Yogi_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (58, 8145), (77, 8277), (83, 8337), (85, 8370),

Gene: Yokurt_19 Start: 12216, Stop: 13187, Start Num: 4

Candidate Starts for Yokurt_19:

(Start: 4 @12216 has 70 MA's), (19, 12276), (28, 12372), (31, 12414), (33, 12444), (35, 12468), (41, 12513), (45, 12564), (46, 12576), (47, 12594), (63, 12699), (84, 12885), (113, 13158),

Gene: Yoncess_12 Start: 7701, Stop: 8603, Start Num: 14

Candidate Starts for Yoncess_12:

(Start: 14 @7701 has 36 MA's), (28, 7830), (36, 7932), (42, 7974), (43, 7989), (45, 8022), (77, 8277), (83, 8337), (85, 8370),

Gene: Zaka_19 Start: 12216, Stop: 13187, Start Num: 4

Candidate Starts for Zaka_19:

(Start: 4 @12216 has 70 MA's), (19, 12276), (28, 12372), (31, 12414), (33, 12444), (35, 12468), (41, 12513), (45, 12564), (46, 12576), (47, 12594), (63, 12699), (84, 12885), (113, 13158),

Gene: Zetzy_16 Start: 11091, Stop: 12065, Start Num: 7

Candidate Starts for Zetzy_16:

(Start: 7 @11091 has 112 MA's), (28, 11235), (39, 11355), (43, 11394), (45, 11427), (79, 11718), (81, 11742), (82, 11748), (86, 11799), (92, 11829), (97, 11892), (105, 11976), (110, 12012), (113, 12036),

Gene: Zimmer_18 Start: 13717, Stop: 14679, Start Num: 5

Candidate Starts for Zimmer_18:

(Start: 5 @13717 has 300 MA's), (19, 13777), (20, 13801), (27, 13867), (28, 13873), (33, 13945), (35, 13969), (41, 14014), (45, 14065), (47, 14095), (63, 14221), (65, 14233), (94, 14464), (104, 14569),

Gene: Zolita_12 Start: 10877, Stop: 11809, Start Num: 13

Candidate Starts for Zolita_12:

(Start: 13 @10877 has 49 MA's), (28, 11006), (31, 11048), (33, 11078), (43, 11165), (45, 11198), (65, 11339), (79, 11462), (81, 11486), (87, 11546), (94, 11585), (96, 11606), (98, 11654), (105, 11711), (110, 11747), (113, 11771),

Gene: Zulu_19 Start: 12215, Stop: 13186, Start Num: 4

Candidate Starts for Zulu_19:

(Start: 4 @12215 has 70 MA's), (19, 12275), (28, 12371), (31, 12413), (33, 12443), (35, 12467), (41, 12512), (45, 12563), (46, 12575), (47, 12593), (63, 12698), (84, 12884), (113, 13157),