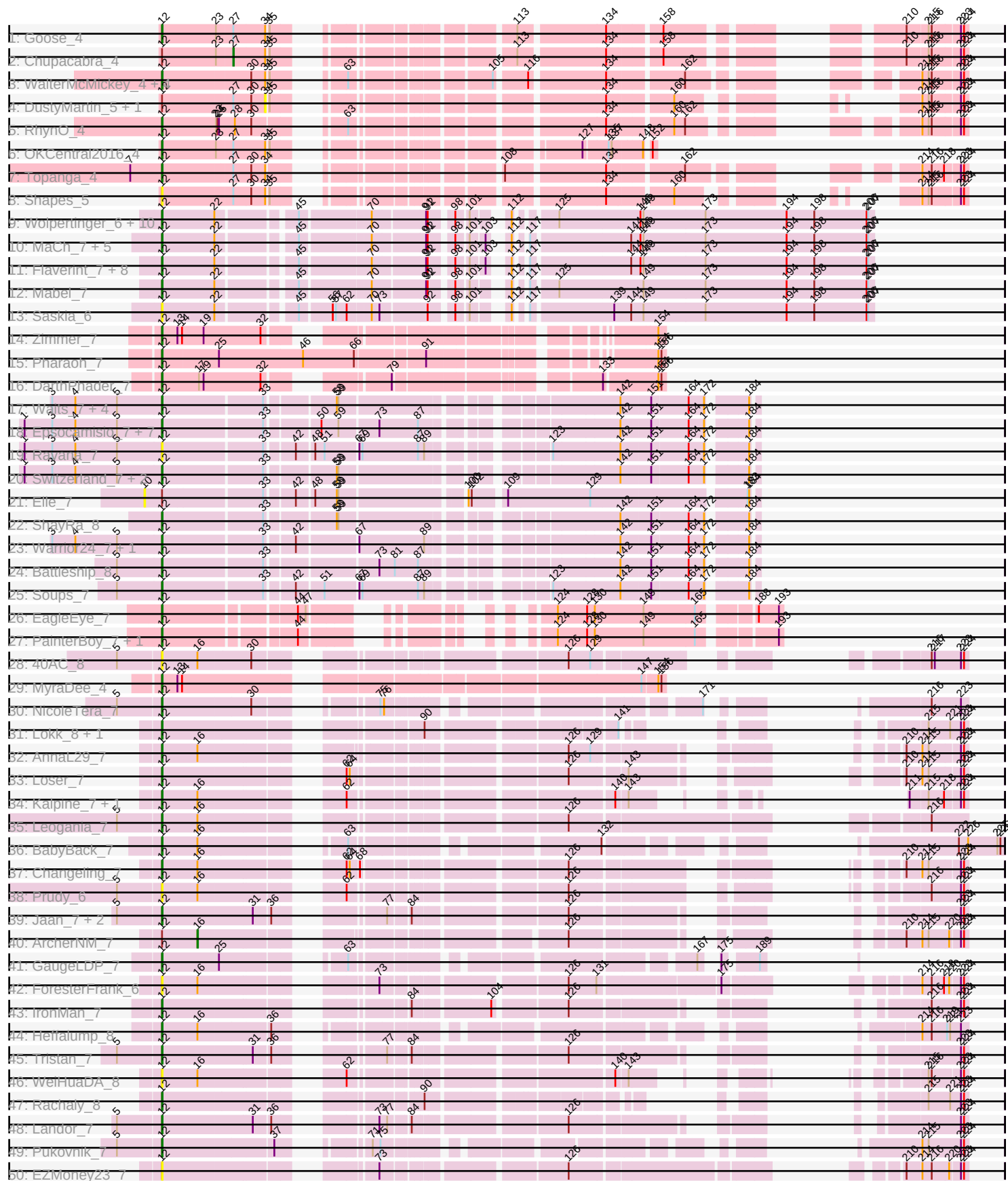
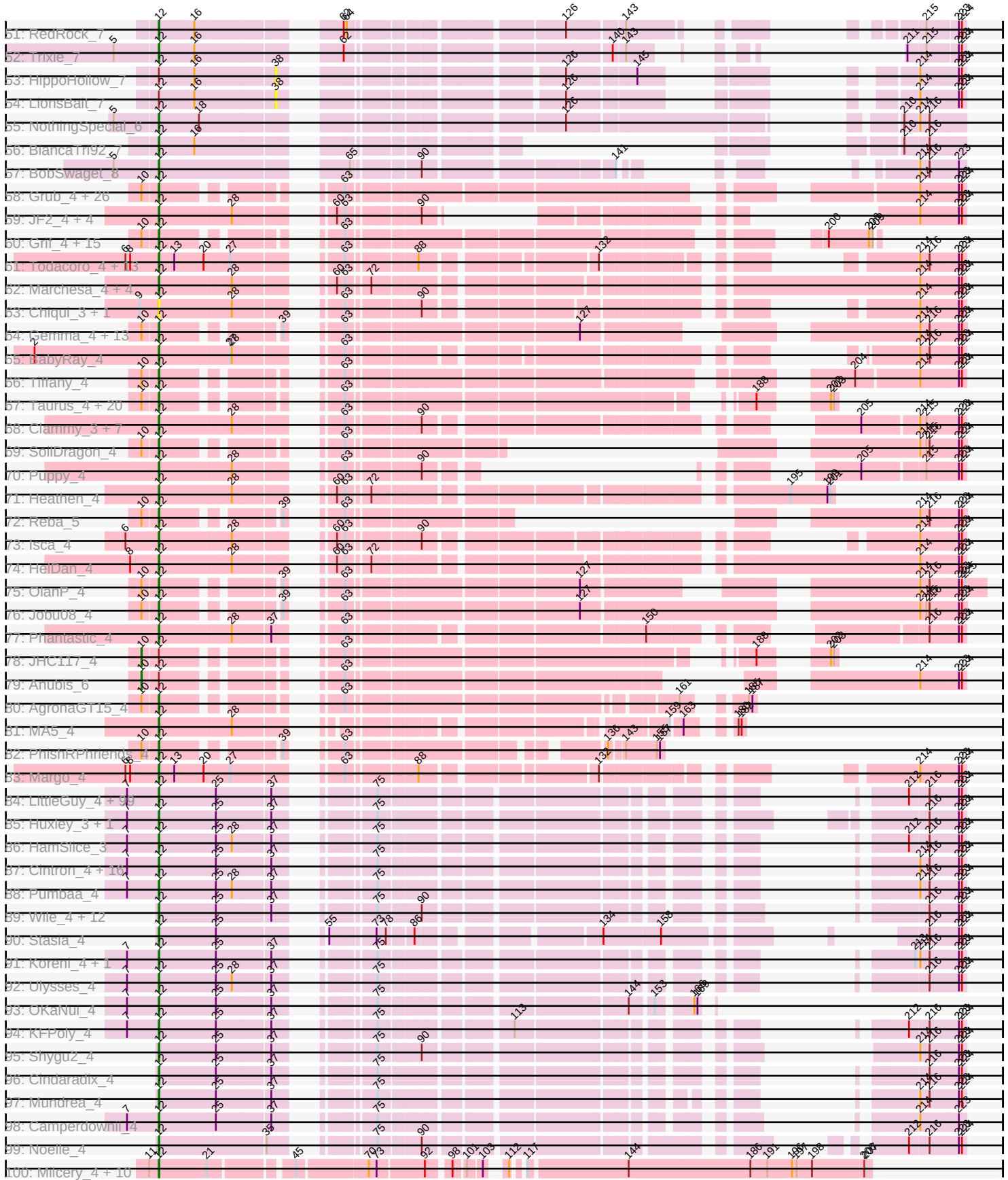
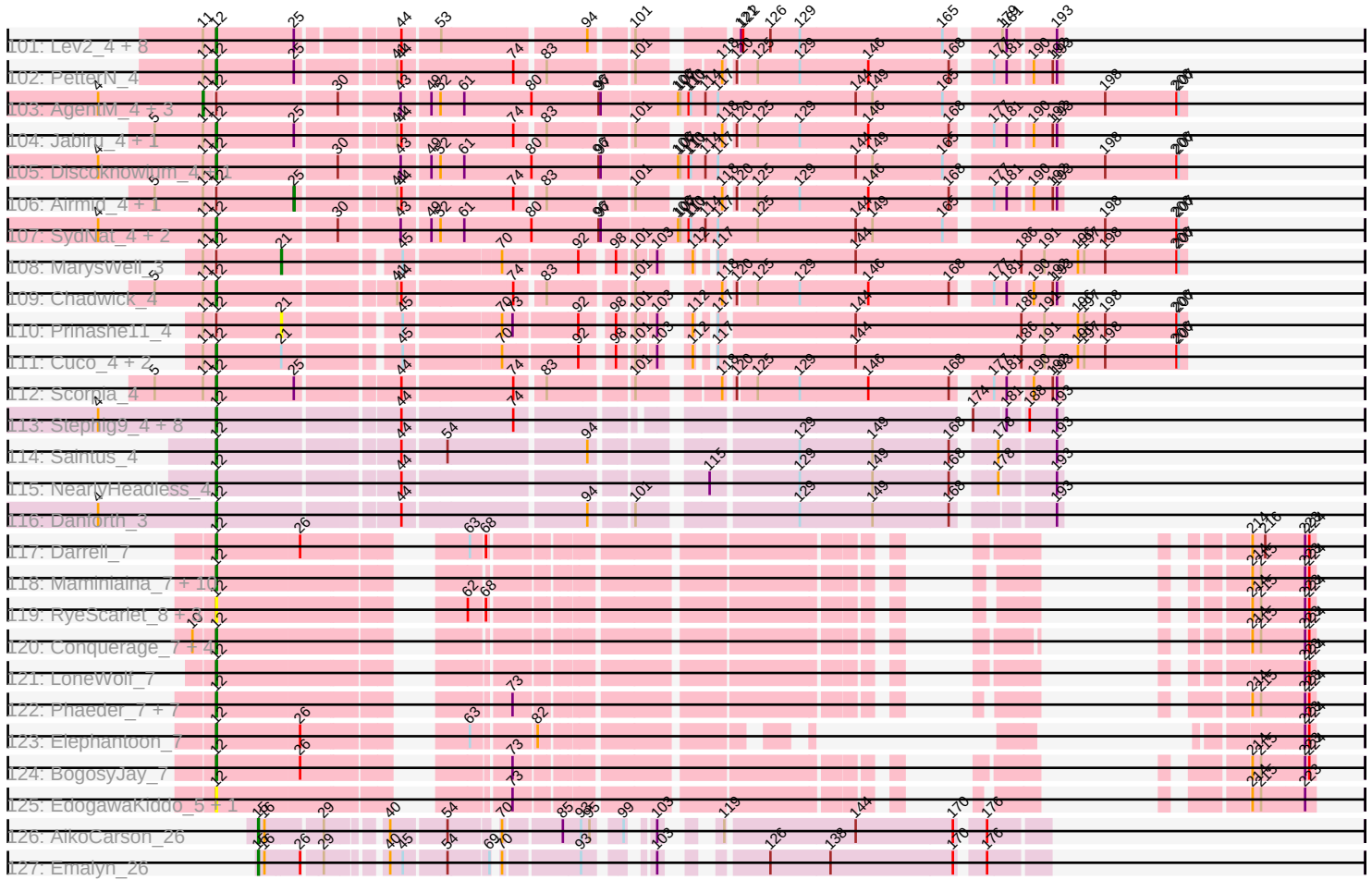


Pham 277732





Pham 277732



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 277732 Report

This analysis was run 02/07/26 on database version 634.

Pham number 277732 has 467 members, 50 are drafts.

Phages represented in each track:

- Track 1 : Goose_4
- Track 2 : Chupacabra_4
- Track 3 : WalterMcMickey_4, Twister_4, Rebeuca_5, Edison31_4, Kristoff_5
- Track 4 : DustyMartin_5, Rowdy_5
- Track 5 : RhynO_4
- Track 6 : OKCentral2016_4
- Track 7 : Topanga_4
- Track 8 : Shapes_5
- Track 9 : Wolpertinger_6, Sham4_7, Et2Brutus_6, Fibonacci_7, Hutc2_7, Petersenfast_6, Bachome_7, Bud_7, Mulciber_7, Salz_7, Snape_7
- Track 10 : MaCh_7, Ebony_7, Gilberta_7, TinyTimmy_7, Kimba_7, Jabith_7
- Track 11 : Flaverint_7, Timothy_7, Aneem_7, Munch_7, Joselito_7, Lucivia_7, Bowtie_7, Insomnia_7, Orange_7
- Track 12 : Mabel_7
- Track 13 : Saskia_6
- Track 14 : Zimmer_7
- Track 15 : Pharaoh_7
- Track 16 : DARTHPhader_7
- Track 17 : Waits_7, Strosahl_7, DekHockey33_7, KatherineG_7, Remus_7
- Track 18 : Epsocamisio_7, Nebulosus_7, JSwag_7, Boohoo_7, LastResort_7, ReMo_7, Looper_7, Anaysia_7
- Track 19 : Ravana_7
- Track 20 : Switzerland_7, Rosalind_7, MinecraftSteve_8
- Track 21 : Elle_7
- Track 22 : ShayRa_8
- Track 23 : Warrior24_7, Oofda_7
- Track 24 : Battleship_8
- Track 25 : Soups_7
- Track 26 : EagleEye_7
- Track 27 : PainterBoy_7, Lucyedi_7
- Track 28 : 40AC_8
- Track 29 : MyraDee_4
- Track 30 : NicoleTera_7
- Track 31 : Lokk_8, Miko_8
- Track 32 : AnnaL29_7
- Track 33 : Loser_7
- Track 34 : Kalpine_7, Colin_8

- Track 35 : Leogania_7
- Track 36 : BabyBack_7
- Track 37 : Changeling_7
- Track 38 : Prudy_6
- Track 39 : Jaan_7, Phaded_7, Bactobuster_7
- Track 40 : ArcherNM_7
- Track 41 : GaugeLDP_7
- Track 42 : ForesterFrank_6
- Track 43 : IronMan_7
- Track 44 : Heffalump_8
- Track 45 : Tristan_7
- Track 46 : WeiHuaDA_8
- Track 47 : Rachaly_8
- Track 48 : Landor_7
- Track 49 : Pukovnik_7
- Track 50 : EZMoney23_7
- Track 51 : RedRock_7
- Track 52 : Trixie_7
- Track 53 : HippoHollow_7
- Track 54 : LionsBait_7
- Track 55 : NothingSpecial_6
- Track 56 : BiancaTri92_7
- Track 57 : BobSwaget_8
- Track 58 : Grub_4, BreSam8_4, Snickers_4, Dieselweasel_4, MuchMore_6, AugsMagnumOpus_6, Sabia_4, Microwolf_4, Lowa_4, Aglet_4, GinkgoMaracino_4, Stagni_4, StepMih_4, MadMarie_4, Mainiac_4, Ollie_4, DaHudson_4, PGHhamlin_6, MarQuardt_4, GtownJaz_4, SoYo_4, Watson_4, Malinsilva_6, Lilith_4, Pembroke_4, Farber_4, Wooldri_6
- Track 59 : JF2_4, MK4_4, Rockstar_4, B1_03, JF4_4
- Track 60 : Grif_4, Phoxy_4, Louie6_4, TinyPebbles_4, Soshari_6, Spike509_4, Methuselah_4, Vix_4, LarryKay_4, Zetzy_4, Misomonster_6, KADY_5, Bxz2_4, BuzzBuzz_3, Rummer_4, HashRod_5
- Track 61 : Todacoro_4, Popcicle_4, Veracruz_3, Texage_3, QuinnKiro_3, Pocahontas_4, ResDef_4, Hookmount_4, Panamaxus_4, Noella_4, Caviar_4, Norbert_3, ÉtoileNova_3, Lambert1_4
- Track 62 : Marchesa_4, DropBear_4, Kachowdy_4, Fred313_4, Zarafa_4
- Track 63 : Chiqui_3, BabyJohn_3
- Track 64 : Gemma_4, Kalnoky_5, PurpleHaze_4, Manu_5, Pawn_4, Kalb97_5, JeppNRM_5, Groupthink_5, HaveUMetTed_5, Marius_5, Phranny_5, Calvinny_4, Heliosoles_4, ACFishhook_4
- Track 65 : BabyRay_4
- Track 66 : Tiffany_4
- Track 67 : Taurus_4, JenCasNa_4, Cullens_4, PotatoSplit_5, MoneyMay_4, Fernando_4, LBerry_4, Bigflo_4, Phoebe_4, Grum1_4, Colbster_4, EpicPhail_4, Marie_4, Beauxregard13_4, Penny1_4, Sabinator_4, P28Green_4, Montavir_3, LugYA_6, Hercules11_4, Gwennie_3
- Track 68 : Clammy_3, Bugatti_3, Pistachio_4, Idleandcovert_3, SaturnRing_3, BlueBird_4, Giroux_4, TNguyen7_4
- Track 69 : SoilDragon_4
- Track 70 : Puppy_4
- Track 71 : Heathen_4
- Track 72 : Reba_5
- Track 73 : Isca_4

- Track 74 : HelDan_4
- Track 75 : OlanP_4
- Track 76 : Jobu08_4
- Track 77 : Phantastic_4
- Track 78 : JHC117_4
- Track 79 : Anubis_6
- Track 80 : AgronaGT15_4
- Track 81 : MA5_4
- Track 82 : PhishRPhriends_4
- Track 83 : Margo_4
- Track 84 : LittleGuy_4, Kamy_4, Lorenzo_4, TroyPia_4, Ohfah_4, Sultana_4, Sabertooth_4, SteMason_3, Clarenza_4, CentreCat_4, Ruin_4, Pipcraft_4, Florean_4, Connomayer_4, Holli_4, Nyxis_4, JoongJeon_4, Phacado_4, Eros_4, Albee_4, Bombshell_4, Maverick_4, LittleB_4, BellusTerra_4, NotAPhaseMom_4, Felipe_4, Peaches_4, ICleared_4, Taquarus_4, Avle17_4, TiroTheta9_4, Wizard007_4, MeeZee_4, LeoAvram_4, Millski_4, Commander_4, JetBlade_4, Eagle_3, Relief_4, TygerBlood_4, Eapen_4, Gadost_4, NorthStar_4, Wilbur_4, Kingmustik0402_4, Mayonnaise_4, Kratark_4, Iceman_4, Polymorphads_4, Medusa_4, Palestino_4, Melvin_4, Phontbonne_4, YoSam321_4, Citius_4, Sparxx_4, Caelakin_4, KekoraPapaka_3, Arturo_3, Kyee_4, Cocoaberry_4, TinaFeyge_4, Koan_4, Bartimeaus_4, LappelDuVide_4, Roosevelt_4, Spino_4, Funston_4, RockieBear_3, Dhanush_4, Bruiser_4, SenorClean_4, Blackmoor_4, Maxo_4, Scamp_4, PeterPeter_4, Lunsford_4, Houdini22_4, Baby16_4, Nemo27_4, Broseidon_4, BubbleTrouble_4, Jaykayelowell_4, Lemur_4, Romney_4, Nebs_4, Shaka_4, Skipitt_4, Eris_4, Chaph_4, Druantia_4, Flux_4, Eurydice_4, Thanksgivukkah_4, Morrow_4, Burger_3, Deano_4, Mazhar510_4, Abdiel_4, Wander_4
- Track 85 : Huxley_3, Annyong_4
- Track 86 : HamSlice_3
- Track 87 : Cintron_4, Cerulean_4, SheldonCooper_4, Phighter1804_4, Iracema64_4, Obama12_4, AvatarAhPeg_4, Stink_4, Rosa24_3, DirtyDunning_4, LochMonster_4, LHTSCC_4, ChampagnePapi_4, Tinybot_3, Miramae_4, Happiness_4, BangNhom_3
- Track 88 : Pumbaa_4
- Track 89 : Wile_4, Badger_4, PetiteSangsue_4, Cici_4, Katalie136_4, Perplexer_4, Xena_4, Datway_4, Morpher26_4, Achebe_4, Backyardigan_4, AbbysRanger_4, Bumblebee11_4
- Track 90 : Stasia_4
- Track 91 : Koreni_4, Alberto7_4
- Track 92 : Ulysses_4
- Track 93 : OKaNui_4
- Track 94 : KFPoly_4
- Track 95 : Shygu2_4
- Track 96 : Cindaradix_4
- Track 97 : Mundrea_4
- Track 98 : Camperdownii_4
- Track 99 : Noelle_4
- Track 100 : Milcery_4, Tarynearal_3, George_3, Coog_4, LittleCherry_4, Bonamassa_4, Twigg_4, Micasa_4, HuhtaEnerson15_4, Swirley_4, Midas2_4
- Track 101 : Lev2_4, Tiger_4, Florence1_4, PickleBack_4, Conspiracy_4, Florence4_4, UnionJack_4, ForGetIt_4, Archetta_4
- Track 102 : PetterN_4
- Track 103 : AgentM_4, Aragog_4, Jovo_4, Phlorence_4

- Track 104 : Jabiru_4, ElTiger69_4
- Track 105 : Discoknowium_4, Bluefalcon_3
- Track 106 : Airmid_4, Benedict_4
- Track 107 : SydNat_4, Zolita_3, Ghoulboy_4
- Track 108 : MarysWell_3
- Track 109 : Chadwick_4
- Track 110 : Prinashel1_4
- Track 111 : Cuco_4, Theia_3, Dublin_3
- Track 112 : Scorpio_4
- Track 113 : Stephig9_4, Expelliarmus_3, Dixon_4, Phillis_4, Smeadley_4, Groundhog_3, Astro_4, Roary_4, Caitlin_3
- Track 114 : Saintus_4
- Track 115 : NearlyHeadless_4
- Track 116 : Danforth_3
- Track 117 : Darrell_7
- Track 118 : Maminiaina_7, Ugenie5_5, ExplosioNervosa_7, Scherzo_7, Alma_7, EmyBug_7, Pioneer_7, Beemo_7, Ayanochan_8, Phonnegut_7, Fayely_7
- Track 119 : RyeScarlet_8, Hanray_6, Jiawan_6, Halex_6
- Track 120 : Conquerage_7, Eidsmoe_7, Qobbit_7, Priya_7, Spouty_7
- Track 121 : LoneWolf_7
- Track 122 : Phaeder_7, HortumSL17_7, Tubs_7, Aliter_7, Myxus_7, Catalina_7, Lilleskat_5, PackMan_7
- Track 123 : Elephantoon_7
- Track 124 : BogosyJay_7
- Track 125 : EdogawaKiddo_5, Sachima_5
- Track 126 : AikoCarson_26
- Track 127 : Emalyn_26

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

The start number called the most often in the published annotations is 12, it was called in 404 of the 417 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 40AC_8, ACFishhook_4, AbbysRanger_4, Abdiel_4, Achebe_4, Aglet_4, AgronaGT15_4, Albee_4, Alberto7_4, Aliter_7, Alma_7, Anaysia_7, Aneem_7, AnnaL29_7, Annyong_4, Archetta_4, Arturo_3, Astro_4, AugsMagnumOpus_6, AvatarAhPeg_4, Avle17_4, Ayanochan_8, B1_03, Baby16_4, BabyBack_7, BabyJohn_3, BabyRay_4, Bachome_7, Backyardigan_4, Bactobuster_7, Badger_4, BangNhom_3, Bartimeaus_4, Battleship_8, Beauxregard13_4, Beemo_7, BellusTerra_4, BiancaTri92_7, Bigflo_4, Blackmoor_4, BlueBird_4, Bluefalcon_3, BobSwaget_8, BogosyJay_7, Bombshell_4, Bonamassa_4, Boohoo_7, Bowtie_7, BreSam8_4, Broseidon_4, Bruiser_4, BubbleTrouble_4, Bud_7, Bugatti_3, Bumblebee11_4, Burger_3, BuzzBuzz_3, Bxz2_4, Caelakin_4, Caitlin_3, Calvinny_4, Camperdownii_4, Catalina_7, Caviar_4, CentreCat_4, Cerulean_4, Chadwick_4, ChampagnePapi_4, Changeling_7, Chaph_4, Chiqui_3, Cici_4, Cindaradix_4, Cintron_4, Citius_4, Clammy_3, Clarenza_4, Cocoaberry_4, Colbster_4, Colin_8, Commander_4, Connomayer_4, Conquerage_7, Conspiracy_4, Coog_4, Cuco_4, Cullens_4, DaHudson_4, Danforth_3, Darrell_7, DarthPhader_7, Datway_4, Deano_4, DekHockey33_7, Dhanush_4, Dieselweasel_4, DirtyDunning_4,

Discoknowium_4, Dixon_4, DropBear_4, Druantia_4, Dublin_3, EZMoney23_7, EagleEye_7, Eagle_3, Eapen_4, Ebony_7, Edison31_4, EdogawaKiddo_5, Eidsmoe_7, ElTiger69_4, Elephantoon_7, EmyBug_7, EpicPhail_4, Epsocamisio_7, Eris_4, Eros_4, Et2Brutus_6, EtoileNova_3, Eurydice_4, Expelliarmus_3, ExplosioNervosa_7, Farber_4, Fayely_7, Fernando_4, Fibonacci_7, Flaverint_7, Florean_4, Florence1_4, Florence4_4, Flux_4, ForGetIt_4, ForesterFrank_6, Fred313_4, Funston_4, Gadost_4, GaugeLDP_7, Gemma_4, George_3, Ghouboy_4, Gilberta_7, GingkoMaracino_4, Giroux_4, Goose_4, Grif_4, Groundhog_3, Groupthink_5, Grub_4, Grum1_4, GtownJaz_4, Gwennie_3, HamSlice_3, Hanray_6, Happiness_4, HashRod_5, HaveUMetTed_5, Heathen_4, Heffalump_8, HelDan_4, Heliosoles_4, Hercules11_4, Halex_6, Holli_4, Hookmount_4, HortumSL17_7, Houdini22_4, HuhtaEnerson15_4, Hutc2_7, Huxley_3, ICleared_4, Iceman_4, Idleandcovert_3, Insomnia_7, Iracema64_4, IronMan_7, Isca_4, JF2_4, JF4_4, JSwag_7, Jaan_7, Jabiru_4, Jabith_7, Jaykayelowell_4, JenCasNa_4, JeppNRM_5, JetBlade_4, Jiawan_6, Jobu08_4, JoongJeon_4, Joselito_7, KADY_5, KFPoly_4, Kachowdy_4, Kalb97_5, Kalnok_5, Kalpine_7, Kamy_4, Katalie136_4, KatherineG_7, KekoraPapaka_3, Kimba_7, Kingmustik0402_4, Koan_4, Koreni_4, Kratak_4, Kristoff_5, Kyee_4, LBerry_4, LHTSCC_4, Lambert1_4, Landor_7, LappelDuVide_4, LarryKay_4, LastResort_7, Lemur_4, LeoAvram_4, Leogania_7, Lev2_4, Lilith_4, Lilleskat_5, LittleB_4, LittleCherry_4, LittleGuy_4, LochMonster_4, Loka_8, LoneWolf_7, Looper_7, Lorenzo_4, Loser_7, Louie6_4, Lowa_4, Lucivia_7, Lucyedi_7, LugYA_6, Lunsford_4, MA5_4, MK4_4, MaCh_7, Mabel_7, MadMarie_4, Mainiac_4, Malinsilva_6, Maminiaina_7, Manu_5, MarQuardt_4, Marchesa_4, Margo_4, Marie_4, Marius_5, Maverick_4, Maxo_4, Mayonnaise_4, Mazhar510_4, Medusa_4, MeeZee_4, Melvin_4, Methuselah_4, Micasa_4, Microwolf_4, Midas2_4, Miko_8, Milcery_4, Millski_4, MinecraftSteve_8, Miramae_4, Misomonster_6, MoneyMay_4, Montavir_3, Morpher26_4, Morrow_4, MuchMore_6, Mulciber_7, Munch_7, Mundrea_4, MyraDee_4, Myxus_7, NearlyHeadless_4, Nebs_4, Nebulosus_7, Nemo27_4, NicoleTera_7, Noella_4, Noelle_4, Norbert_3, NorthStar_4, NotAPhaseMom_4, NothingSpecial_6, Nyxis_4, OKCentral2016_4, OKaNui_4, Obama12_4, Ohfah_4, OlanP_4, Ollie_4, Oofda_7, Orange_7, P28Green_4, PGHhamlin_6, PackMan_7, PainterBoy_7, Palestino_4, Panamaxus_4, Pawn_4, Peaches_4, Pembroke_4, Penny1_4, Perplexer_4, PeterPeter_4, Petersenfast_6, PetiteSangsue_4, PetterN_4, Phacado_4, Phaded_7, Phaeder_7, Phantastic_4, Pharaoh_7, Phelipe_4, Phighter1804_4, Phillis_4, PhishRPhriends_4, Phoebe_4, Phonnegut_7, Phontbonne_4, Phoxy_4, Phranny_5, PickleBack_4, Pioneer_7, Pipcraft_4, Pistachio_4, Pocahontas_4, Polymorphads_4, Popcicle_4, PotatoSplit_5, Priya_7, Prudy_6, Pukovnik_7, Pumbaa_4, Puppy_4, PurpleHaze_4, Qobbit_7, QuinnKiro_3, Rachaly_8, Ravana_7, ReMo_7, Reba_5, Rebeuca_5, RedRock_7, Relief_4, Remus_7, ResDef_4, RhynO_4, Roary_4, RockieBear_3, Rockstar_4, Romney_4, Roosevelt_4, Rosa24_3, Rosalind_7, Ruin_4, Rummer_4, RyeScarlet_8, Sabertooth_4, Sabia_4, Sabinator_4, Sachima_5, Saintus_4, Salz_7, Saskia_6, SaturnRing_3, Scamp_4, Scherzo_7, Scorpia_4, SenorClean_4, Shaka_4, Sham4_7, Shapes_5, ShayRa_8, SheldonCooper_4, Shygu2_4, Skipitt_4, Smeadley_4, Snape_7, Snickers_4, SoYo_4, SoilDragon_4, Soshari_6, Soups_7, Sparxx_4, Spike509_4, Spino_4, Spouty_7, Stagni_4, Stasia_4, SteMason_3, StepMih_4, Stephig9_4, Stink_4, Strosahl_7, Sultana_4, Swirley_4, Switzerland_7, SydNat_4, TNguyen7_4, Taquarus_4, Tarynearal_3, Taurus_4, Texage_3, Thanksgivukkah_4, Theia_3, Tiffany_4, Tiger_4, Timothy_7, TinaFeyge_4, TinyPebbles_4, TinyTimmy_7, Tinybot_3, TiroTheta9_4, Todacoro_4, Topanga_4, Tristan_7, Trixie_7, TroyPia_4, Tubs_7, Twigg_4, Twister_4, TygerBlood_4, Ugenie5_5, Ulysses_4, UnionJack_4, Veracruz_3, Vix_4, Waits_7, WalterMcMickey_4, Wander_4, Warrior24_7, Watson_4,

WeiHuaDA_8, Wilbur_4, Wile_4, Wizard007_4, Wolpertinger_6, Wooldri_6, Xena_4, YoSam321_4, Zarafa_4, Zetzy_4, Zimmer_7, Zolita_3,

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

• AgentM_4, Airmid_4, Anubis_6, Aragog_4, ArcherNM_7, Benedict_4, Chupacabra_4, DustyMartin_5, Elle_7, HippoHollow_7, JHC117_4, Jovo_4, LionsBait_7, MarysWell_3, Phlorence_4, Prinashel1_4, Rowdy_5,

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

• AikoCarson_26, Emalyn_26,

Summary by start number:

Start 10:

- Found in 93 of 467 (19.9%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 3.2% of time when present
- Phage (with cluster) where this start called: Anubis_6 (A3), Elle_7 (A15), JHC117_4 (A3),

Start 11:

- Found in 41 of 467 (8.8%) of genes in pham
- Manual Annotations of this start: 4 of 417
- Called 9.8% of time when present
- Phage (with cluster) where this start called: AgentM_4 (A5), Aragog_4 (A5), Jovo_4 (A5), Phlorence_4 (A5),

Start 12:

- Found in 465 of 467 (99.6%) of genes in pham
- Manual Annotations of this start: 404 of 417
- Called 96.3% of time when present
- Phage (with cluster) where this start called: 40AC_8 (A17), ACFishhook_4 (A3), AbbysRanger_4 (A4), Abdiel_4 (A4), Achebe_4 (A4), Aglet_4 (A3), AgronaGT15_4 (A3), Albee_4 (A4), Alberto7_4 (A4), Aliter_7 (A9), Alma_7 (A9), Anaysia_7 (A15), Aneem_7 (A11), AnnaL29_7 (A2), Annyong_4 (A4), Archetta_4 (A5), Arturo_3 (A4), Astro_4 (A8), AugsMagnumOpus_6 (A3), AvatarAhPeg_4 (A4), Avle17_4 (A4), Ayanochan_8 (A9), B1_03 (A3), Baby16_4 (A4), BabyBack_7 (A2), BabyJohn_3 (A3), BabyRay_4 (A3), Bachome_7 (A11), Backyardigan_4 (A4), Bactobuster_7 (A2), Badger_4 (A4), BangNhom_3 (A4), Bartimeaus_4 (A4), Battleship_8 (A15), Beauxregard13_4 (A3), Beemo_7 (A9), BellusTerra_4 (A4), BiancaTri92_7 (A2), Bigflo_4 (A3), Blackmoor_4 (A4), BlueBird_4 (A3), Bluefalcon_3 (A5), BobSwaget_8 (A2), BogosyJay_7 (A9), Bombshell_4 (A4), Bonamassa_4 (A5), Boohoo_7 (A15), Bowtie_7 (A11), BreSam8_4 (A3), Broseidon_4 (A4), Bruiser_4 (A4), BubbleTrouble_4 (A4), Bud_7 (A11), Bugatti_3 (A3), Bumblebee11_4 (A4), Burger_3 (A4), BuzzBuzz_3 (A3), Bxz2_4 (A3), Caelakin_4 (A4), Caitlin_3 (A8), Calvinny_4 (A3), Camperdownii_4 (A4), Catalina_7 (A9), Caviar_4 (A3), CentreCat_4 (A4), Cerulean_4 (A4), Chadwick_4 (A5), ChampagnePapi_4 (A4), Changeling_7 (A2), Chaph_4 (A4), Chiqui_3 (A3), Cici_4 (A4), Cindaradix_4 (A4), Cintron_4 (A4), Citius_4 (A4), Clammy_3 (A3), Clarenza_4 (A4), Cocoaberry_4 (A4), Colbster_4 (A3), Colin_8 (A2), Commander_4 (A4), Connomayer_4 (A4), Conquerage_7 (A9), Conspiracy_4 (A5), Coog_4 (A5), Cuco_4 (A5), Cullens_4 (A3), DaHudson_4 (A3), Danforth_3 (A8), Darrell_7 (A9), DarthPhader_7 (A12), Datway_4 (A4), Deano_4 (A4), DekHockey33_7 (A15), Dhanush_4 (A4), Dieselweasel_4 (A3), DirtyDunning_4

(A4), Discoknowium_4 (A5), Dixon_4 (A8), DropBear_4 (A3), Druantia_4 (A4), Dublin_3 (A5), EZMoney23_7 (A2), EagleEye_7 (A16), Eagle_3 (A4), Eapen_4 (A4), Ebony_7 (A11), Edison31_4 (A10), EdogawaKiddo_5 (A9), Eidsmoe_7 (A9), ElTiger69_4 (A5), Elephantoon_7 (A9), EmyBug_7 (A9), EpicPhail_4 (A3), Epsocamisio_7 (A15), Eris_4 (A4), Eros_4 (A4), Et2Brutus_6 (A11), EtoileNova_3 (A3), Eurydice_4 (A4), Expelliarmus_3 (A8), ExplosioNervosa_7 (A9), Farber_4 (A3), Fayely_7 (A9), Fernando_4 (A3), Fibonacci_7 (A11), Flaverint_7 (A11), Florean_4 (A4), Florence1_4 (A5), Florence4_4 (A5), Flux_4 (A4), ForGetIt_4 (A5), ForesterFrank_6 (A2), Fred313_4 (A3), Funston_4 (A4), Gadost_4 (A4), GaugeLDP_7 (A2), Gemma_4 (A3), George_3 (A5), Ghoulboy_4 (A5), Gilberta_7 (A11), GingkoMaracino_4 (A3), Giroux_4 (A3), Goose_4 (A10), Grif_4 (A3), Groundhog_3 (A8), Groupthink_5 (A3), Grub_4 (A3), Grum1_4 (A3), GtownJaz_4 (A3), Gwennie_3 (A3), HamSlice_3 (A4), Hanray_6 (A9), Happiness_4 (A4), HashRod_5 (A3), HaveUMetTed_5 (A3), Heathen_4 (A3), Heffalump_8 (A2), HelDan_4 (A3), Heliosoles_4 (A3), Hercules11_4 (A3), Halex_6 (A9), Holli_4 (A4), Hookmount_4 (A3), HortumSL17_7 (A9), Houdini22_4 (A4), HuhtaEnerson15_4 (A5), Hut2_7 (A11), Huxley_3 (A4), ICleared_4 (A4), Iceman_4 (A4), Idleandcovert_3 (A3), Insomnia_7 (A11), Iracema64_4 (A4), IronMan_7 (A2), Isca_4 (A3), JF2_4 (A3), JF4_4 (A3), JSwag_7 (A15), Jaan_7 (A2), Jabiru_4 (A5), Jabith_7 (A11), Jaykayelowell_4 (A4), JenCasNa_4 (A3), JeppNRM_5 (A3), JetBlade_4 (A4), Jiawan_6 (A9), Jobu08_4 (A3), JoongJeon_4 (A4), Joselito_7 (A11), KADY_5 (A3), KFPoly_4 (A4), Kachowdy_4 (A3), Kalb97_5 (A3), Kalnoky_5 (A3), Kalpine_7 (A2), Kamy_4 (A4), Katalie136_4 (A4), KatherineG_7 (A15), KekoraPapaka_3 (A4), Kimba_7 (A11), Kingmustik0402_4 (A4), Koan_4 (A4), Koreni_4 (A4), Kratak_4 (A4), Kristoff_5 (A10), Kyee_4 (A4), LBerry_4 (A3), LHTSCC_4 (A4), Lambert1_4 (A3), Landor_7 (A2), LappelDuVide_4 (A4), LarryKay_4 (A3), LastResort_7 (A15), Lemur_4 (A4), LeoAvram_4 (A4), Leogania_7 (A2), Lev2_4 (A5), Lilith_4 (A3), Lilleskat_5 (A9), LittleB_4 (A4), LittleCherry_4 (A5), LittleGuy_4 (A4), LochMonster_4 (A4), Lokk_8 (A2), LoneWolf_7 (A9), Looper_7 (A15), Lorenzo_4 (A4), Loser_7 (A2), Louie6_4 (A3), Iowa_4 (A3), Lucivia_7 (A11), Lucyedi_7 (A16), LugYA_6 (A3), Lunsford_4 (A4), MA5_4 (A3), MK4_4 (A3), MaCh_7 (A11), Mabel_7 (A11), MadMarie_4 (A3), Mainiac_4 (A3), Malinsilva_6 (A3), Maminiaina_7 (A9), Manu_5 (A3), MarQuardt_4 (A3), Marchesa_4 (A3), Margo_4 (A3), Marie_4 (A3), Marius_5 (A3), Maverick_4 (A4), Maxo_4 (A4), Mayonnaise_4 (A4), Mazhar510_4 (A4), Medusa_4 (A4), MeeZee_4 (A4), Melvin_4 (A4), Methuselah_4 (A3), Micasa_4 (A5), Microwolf_4 (A3), Midas2_4 (A5), Miko_8 (A2), Milcery_4 (A5), Millski_4 (A4), MinecraftSteve_8 (A15), Miramae_4 (A4), Misomonster_6 (A3), MoneyMay_4 (A3), Montavir_3 (A3), Morpher26_4 (A4), Morrow_4 (A4), MuchMore_6 (A3), Mulciber_7 (A11), Munch_7 (A11), Munda_4 (A4), MyraDee_4 (A18), Myxus_7 (A9), NearlyHeadless_4 (A8), Nebs_4 (A4), Nebulosus_7 (A15), Nemo27_4 (A4), NicoleTera_7 (A2), Noella_4 (A3), Noelle_4 (A4), Norbert_3 (A3), NorthStar_4 (A4), NotAPhaseMom_4 (A4), NothingSpecial_6 (A2), Nyxis_4 (A4), OKCentral2016_4 (A10), OKaNui_4 (A4), Obama12_4 (A4), Ohfah_4 (A4), OlanP_4 (A3), Ollie_4 (A3), Oofda_7 (A15), Orange_7 (A11), P28Green_4 (A3), PGHhamlin_6 (A3), PackMan_7 (A9), PainterBoy_7 (A16), Palestino_4 (A4), Panamaxus_4 (A3), Pawn_4 (A3), Peaches_4 (A4), Pembroke_4 (A3), Penny1_4 (A3), Perplexer_4 (A4), PeterPeter_4 (A4), Petersenfast_6 (A11), PetiteSangsue_4 (A4), PetterN_4 (A5), Phacado_4 (A4), Phaded_7 (A2), Phaeder_7 (A9), Phantastic_4 (A3), Pharaoh_7 (A12), Phelipe_4 (A4), Phighter1804_4 (A4), Phillis_4 (A8), PhishRPhriends_4 (A3), Phoebe_4 (A3), Phonnegut_7 (A9), Phontbonne_4 (A4), Phoxy_4 (A3), Phranny_5 (A3), PickleBack_4 (A5), Pioneer_7 (A9), Pipcraft_4 (A4), Pistachio_4 (A3), Pocahontas_4 (A3), Polymorphads_4 (A4), Popcicle_4 (A3), PotatoSplit_5 (A3), Priya_7 (A9), Prudy_6 (A2), Pukovnik_7 (A2), Pumbaa_4 (A4), Puppy_4 (A3), PurpleHaze_4 (A3), Qobbit_7 (A9), QuinnKiro_3 (A3),

Rachaly_8 (A2), Ravana_7 (A15), ReMo_7 (A15), Reba_5 (A3), Rebeuca_5 (A10), RedRock_7 (A2), Relief_4 (A4), Remus_7 (A15), ResDef_4 (A3), RhynO_4 (A10), Roary_4 (A8), RockieBear_3 (A4), Rockstar_4 (A3), Romney_4 (A4), Roosevelt_4 (A4), Rosa24_3 (A4), Rosalind_7 (A15), Ruin_4 (A4), Rummer_4 (A3), RyeScarlet_8 (A9), Sabertooth_4 (A4), Sabia_4 (A3), Sabinator_4 (A3), Sachima_5 (A9), Saintus_4 (A8), Salz_7 (A11), Saskia_6 (A11), SaturnRing_3 (A3), Scamp_4 (A4), Scherzo_7 (A9), Scorpio_4 (A5), SenorClean_4 (A4), Shaka_4 (A4), Sham4_7 (A11), Shapes_5 (A10), ShayRa_8 (A15), SheldonCooper_4 (A4), Shygu2_4 (A4), Skipitt_4 (A4), Smeadley_4 (A8), Snape_7 (A11), Snickers_4 (A3), SoYo_4 (A3), SoilDragon_4 (A3), Soshari_6 (A3), Soups_7 (A15), Sparxx_4 (A4), Spike509_4 (A3), Spino_4 (A4), Spouty_7 (A9), Stagni_4 (A3), Stasia_4 (A4), SteMason_3 (A4), StepMih_4 (A3), Stephig9_4 (A8), Stink_4 (A4), Strosahl_7 (A15), Sultana_4 (A4), Swirley_4 (A5), Switzerland_7 (A15), SydNat_4 (A5), TNguyen7_4 (A3), Taquarus_4 (A4), Tarynearal_3 (A5), Taurus_4 (A3), Texage_3 (A3), Thanksgivukkah_4 (A4), Theia_3 (A5), Tiffany_4 (A3), Tiger_4 (A5), Timothy_7 (A11), TinaFeyge_4 (A4), TinyPebbles_4 (A3), TinyTimmy_7 (A11), Tinybot_3 (A4), TiroTheta9_4 (A4), Todacoro_4 (A3), Topanga_4 (A10), Tristan_7 (A2), Trixie_7 (A2), TroyPia_4 (A4), Tubs_7 (A9), Twigg_4 (A5), Twister_4 (A10), TygerBlood_4 (A4), Ugenie5_5 (A9), Ulysses_4 (A4), UnionJack_4 (A5), Veracruz_3 (A3), Vix_4 (A3), Waits_7 (A15), WalterMcMickey_4 (A10), Wander_4 (A4), Warrior24_7 (A15), Watson_4 (A3), WeiHuaDA_8 (A2), Wilbur_4 (A4), Wile_4 (A4), Wizard007_4 (A4), Wolpertinger_6 (A11), Wooldri_6 (A3), Xena_4 (A4), YoSam321_4 (A4), Zarafa_4 (A3), Zetzy_4 (A3), Zimmer_7 (A12), Zolita_3 (A5),

Start 15:

- Found in 2 of 467 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AikoCarson_26 (CT), Emalyn_26 (CT),

Start 16:

- Found in 19 of 467 (4.1%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 5.3% of time when present
- Phage (with cluster) where this start called: ArcherNM_7 (A2),

Start 21:

- Found in 16 of 467 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 12.5% of time when present
- Phage (with cluster) where this start called: MarysWell_3 (A5), Prinashe11_4 (A5),

Start 25:

- Found in 162 of 467 (34.7%) of genes in pham
- Manual Annotations of this start: 2 of 417
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Airmid_4 (A5), Benedict_4 (A5),

Start 27:

- Found in 23 of 467 (4.9%) of genes in pham
- Manual Annotations of this start: 1 of 417
- Called 4.3% of time when present
- Phage (with cluster) where this start called: Chupacabra_4 (A10),

Start 34:

- Found in 12 of 467 (2.6%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: DustyMartin_5 (A10), Rowdy_5 (A10),

Start 38:

- Found in 2 of 467 (0.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HippoHollow_7 (A2), LionsBait_7 (A2),

Summary by clusters:

There are 14 clusters represented in this pham: A15, A17, A16, A11, A10, A12, A18, A3, A2, A5, A4, A9, A8, CT,

Info for manual annotations of cluster A10:

- Start number 12 was manually annotated 9 times for cluster A10.
- Start number 27 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A11:

- Start number 12 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 12 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A15:

- Start number 12 was manually annotated 21 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 12 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 12 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:

- Start number 12 was manually annotated 24 times for cluster A2.
- Start number 16 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A3:

- Start number 10 was manually annotated 2 times for cluster A3.
- Start number 12 was manually annotated 112 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 12 was manually annotated 140 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 11 was manually annotated 4 times for cluster A5.
- Start number 12 was manually annotated 30 times for cluster A5.
- Start number 21 was manually annotated 1 time for cluster A5.

- Start number 25 was manually annotated 2 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 12 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 12 was manually annotated 26 times for cluster A9.

Info for manual annotations of cluster CT:

- Start number 15 was manually annotated 2 times for cluster CT.

Gene Information:

Gene: 40AC_8 Start: 4152, Stop: 5285, Start Num: 12

Candidate Starts for 40AC_8:

(5, 4071), (Start: 12 @4152 has 404 MA's), (Start: 16 @4221 has 1 MA's), (30, 4320), (126, 4791), (129, 4833), (216, 5217), (217, 5223), (223, 5271), (224, 5277),

Gene: ACFishhook_4 Start: 1685, Stop: 2965, Start Num: 12

Candidate Starts for ACFishhook_4:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2879), (216, 2897), (223, 2951), (224, 2957),

Gene: AbbysRanger_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for AbbysRanger_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Abdiel_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Abdiel_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Achebe_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Achebe_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: AgentM_4 Start: 2343, Stop: 3680, Start Num: 11

Candidate Starts for AgentM_4:

(4, 2196), (Start: 11 @2343 has 4 MA's), (Start: 12 @2355 has 404 MA's), (30, 2520), (43, 2601), (49, 2637), (52, 2649), (61, 2682), (80, 2778), (96, 2874), (97, 2877), (106, 2982), (107, 2985), (110, 2997), (111, 3000), (114, 3021), (117, 3039), (144, 3234), (149, 3258), (165, 3357), (198, 3567), (206, 3669), (207, 3672),

Gene: Aglet_4 Start: 1681, Stop: 2895, Start Num: 12

Candidate Starts for Aglet_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2809), (223, 2881), (224, 2887),

Gene: AgronaGT15_4 Start: 1682, Stop: 2536, Start Num: 12

Candidate Starts for AgronaGT15_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (161, 2450), (185, 2522), (187, 2528),

Gene: AikoCarson_26 Start: 21241, Stop: 22128, Start Num: 15

Candidate Starts for AikoCarson_26:

(Start: 15 @21241 has 2 MA's), (Start: 16 @21250 has 1 MA's), (29, 21322), (40, 21388), (54, 21460), (70, 21517), (85, 21589), (93, 21613), (95, 21625), (99, 21652), (103, 21670), (119, 21706), (144, 21880), (170, 22018), (176, 22048),

Gene: Airmid_4 Start: 2465, Stop: 3403, Start Num: 25

Candidate Starts for Airmid_4:

(5, 2276), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (41, 2585), (44, 2591), (74, 2738), (83, 2774), (101, 2879), (118, 2972), (120, 2981), (125, 3005), (129, 3065), (146, 3161), (168, 3275), (177, 3317), (181, 3335), (190, 3362), (192, 3389), (193, 3395),

Gene: Albee_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Albee_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Alberto7_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Alberto7_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (213, 2624), (214, 2630), (216, 2648), (223, 2705), (224, 2711),

Gene: Aliter_7 Start: 4192, Stop: 5163, Start Num: 12

Candidate Starts for Aliter_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5080), (215, 5092), (223, 5149), (224, 5155),

Gene: Alma_7 Start: 4190, Stop: 5221, Start Num: 12

Candidate Starts for Alma_7:

(Start: 12 @4190 has 404 MA's), (214, 5138), (215, 5150), (223, 5207), (224, 5213),

Gene: Anaysia_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Anaysia_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Aneem_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Aneem_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: AnnaL29_7 Start: 4133, Stop: 5236, Start Num: 12

Candidate Starts for AnnaL29_7:

(Start: 12 @4133 has 404 MA's), (Start: 16 @4202 has 1 MA's), (126, 4772), (129, 4814), (210, 5126), (214, 5153), (215, 5165), (223, 5222), (224, 5228),

Gene: Annyong_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Annyong_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (216, 2648), (223, 2705), (224, 2711),

Gene: Anubis_6 Start: 1654, Stop: 2805, Start Num: 10

Candidate Starts for Anubis_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2719), (223, 2791), (224, 2797),

Gene: Aragog_4 Start: 2373, Stop: 3710, Start Num: 11

Candidate Starts for Aragog_4:

(4, 2226), (Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (30, 2550), (43, 2631), (49, 2667), (52, 2679), (61, 2712), (80, 2808), (96, 2904), (97, 2907), (106, 3012), (107, 3015), (110, 3027), (111, 3030), (114, 3051), (117, 3069), (144, 3264), (149, 3288), (165, 3387), (198, 3597), (206, 3699), (207, 3702),

Gene: ArcherNM_7 Start: 4221, Stop: 5246, Start Num: 16

Candidate Starts for ArcherNM_7:

(Start: 12 @4152 has 404 MA's), (Start: 16 @4221 has 1 MA's), (126, 4782), (210, 5136), (214, 5163), (215, 5175), (220, 5214), (223, 5232), (224, 5238),

Gene: Archetta_4 Start: 2385, Stop: 3440, Start Num: 12

Candidate Starts for Archetta_4:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 25 @2496 has 2 MA's), (44, 2613), (53, 2661), (94, 2853), (101, 2901), (121, 3015), (122, 3018), (126, 3057), (129, 3099), (165, 3300), (179, 3363), (181, 3369), (193, 3432),

Gene: Arturo_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Arturo_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Astro_4 Start: 2306, Stop: 3343, Start Num: 12

Candidate Starts for Astro_4:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (74, 2690), (174, 3236), (181, 3275), (188, 3299), (193, 3335),

Gene: AugsMagnumOpus_6 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for AugsMagnumOpus_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: AvatarAhPeg_4 Start: 1638, Stop: 2714, Start Num: 12

Candidate Starts for AvatarAhPeg_4:

(7, 1578), (Start: 12 @1638 has 404 MA's), (Start: 25 @1746 has 2 MA's), (37, 1842), (75, 1956), (214, 2625), (216, 2643), (223, 2700), (224, 2706),

Gene: Avle17_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Avle17_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Ayanochan_8 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Ayanochan_8:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: B1_03 Start: 1608, Stop: 2510, Start Num: 12

Candidate Starts for B1_03:

(Start: 12 @1608 has 404 MA's), (28, 1743), (60, 1866), (63, 1881), (90, 1995), (214, 2424), (223, 2496), (224, 2502),

Gene: Baby16_4 Start: 1645, Stop: 2727, Start Num: 12

Candidate Starts for Baby16_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2620), (216, 2656), (223, 2713), (224, 2719),

Gene: BabyBack_7 Start: 3957, Stop: 5108, Start Num: 12

Candidate Starts for BabyBack_7:

(Start: 12 @3957 has 404 MA's), (Start: 16 @4026 has 1 MA's), (63, 4233), (132, 4629), (222, 5019), (226, 5037), (227, 5094), (228, 5100),

Gene: BabyJohn_3 Start: 1627, Stop: 2763, Start Num: 12

Candidate Starts for BabyJohn_3:

(9, 1591), (Start: 12 @1627 has 404 MA's), (28, 1762), (63, 1900), (90, 2014), (214, 2677), (223, 2749), (224, 2755),

Gene: BabyRay_4 Start: 1650, Stop: 2777, Start Num: 12

Candidate Starts for BabyRay_4:

(2, 1410), (Start: 12 @1650 has 404 MA's), (Start: 27 @1782 has 1 MA's), (28, 1785), (63, 1923), (214, 2691), (216, 2709), (223, 2763), (224, 2769),

Gene: Bachome_7 Start: 4193, Stop: 5407, Start Num: 12

Candidate Starts for Bachome_7:

(Start: 12 @4193 has 404 MA's), (22, 4295), (45, 4427), (70, 4553), (91, 4646), (92, 4649), (98, 4685), (101, 4703), (112, 4745), (125, 4802), (146, 4958), (149, 4964), (173, 5084), (194, 5240), (198, 5294), (206, 5396), (207, 5399),

Gene: Backyardigan_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Backyardigan_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Bactobuster_7 Start: 3964, Stop: 5064, Start Num: 12

Candidate Starts for Bactobuster_7:

(5, 3883), (Start: 12 @3964 has 404 MA's), (31, 4135), (36, 4165), (77, 4306), (84, 4339), (126, 4603), (223, 5050), (224, 5056),

Gene: Badger_4 Start: 1645, Stop: 2730, Start Num: 12

Candidate Starts for Badger_4:

(Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (90, 2035), (216, 2659), (223, 2716), (224, 2722),

Gene: BangNhom_3 Start: 1642, Stop: 2718, Start Num: 12

Candidate Starts for BangNhom_3:

(7, 1582), (Start: 12 @1642 has 404 MA's), (Start: 25 @1750 has 2 MA's), (37, 1846), (75, 1960), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: Bartimeaus_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Bartimeaus_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Battleship_8 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for Battleship_8:

(5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (73, 3942), (81, 3972), (87, 4017), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: Beauxregard13_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Beauxregard13_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Beemo_7 Start: 4193, Stop: 5224, Start Num: 12

Candidate Starts for Beemo_7:

(Start: 12 @4193 has 404 MA's), (214, 5141), (215, 5153), (223, 5210), (224, 5216),

Gene: BellusTerra_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for BellusTerra_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Benedict_4 Start: 2467, Stop: 3405, Start Num: 25

Candidate Starts for Benedict_4:

(5, 2278), (Start: 11 @2344 has 4 MA's), (Start: 12 @2356 has 404 MA's), (Start: 25 @2467 has 2 MA's), (41, 2587), (44, 2593), (74, 2740), (83, 2776), (101, 2881), (118, 2974), (120, 2983), (125, 3007), (129, 3067), (146, 3163), (168, 3277), (177, 3319), (181, 3337), (190, 3364), (192, 3391), (193, 3397),

Gene: BiancaTri92_7 Start: 4180, Stop: 5040, Start Num: 12

Candidate Starts for BiancaTri92_7:

(Start: 12 @4180 has 404 MA's), (Start: 16 @4249 has 1 MA's), (210, 4927), (216, 4972),

Gene: Bigflo_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Bigflo_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Blackmoor_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Blackmoor_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: BlueBird_4 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for BlueBird_4:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Bluefalcon_3 Start: 2352, Stop: 3677, Start Num: 12

Candidate Starts for Bluefalcon_3:

(4, 2193), (Start: 11 @2340 has 4 MA's), (Start: 12 @2352 has 404 MA's), (30, 2517), (43, 2598), (49, 2634), (52, 2646), (61, 2679), (80, 2775), (96, 2871), (97, 2874), (106, 2979), (107, 2982), (110, 2994), (111, 2997), (114, 3018), (117, 3036), (144, 3231), (149, 3255), (165, 3354), (198, 3564), (206, 3666), (207, 3669),

Gene: BobSwaget_8 Start: 4394, Stop: 5380, Start Num: 12

Candidate Starts for BobSwaget_8:

(5, 4313), (Start: 12 @4394 has 404 MA's), (65, 4688), (90, 4793), (141, 5111), (214, 5294), (216, 5312), (223, 5366),

Gene: BogosyJay_7 Start: 3953, Stop: 5005, Start Num: 12

Candidate Starts for BogosyJay_7:

(Start: 12 @3953 has 404 MA's), (26, 4070), (73, 4286), (214, 4922), (215, 4934), (223, 4991), (224, 4997),

Gene: Bombshell_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Bombshell_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Bonamassa_4 Start: 2386, Stop: 3603, Start Num: 12

Candidate Starts for Bonamassa_4:

(Start: 11 @2374 has 4 MA's), (Start: 12 @2386 has 404 MA's), (Start: 21 @2479 has 1 MA's), (45, 2620), (70, 2746), (73, 2758), (92, 2842), (98, 2878), (101, 2896), (103, 2920), (112, 2938), (117, 2950), (144, 3133), (186, 3367), (191, 3400), (196, 3448), (197, 3457), (198, 3487), (206, 3589), (207, 3592),

Gene: Boohoo_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Boohoo_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Bowtie_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Bowtie_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: BreSam8_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for BreSam8_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Broseidon_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Broseidon_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Bruiser_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Bruiser_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: BubbleTrouble_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for BubbleTrouble_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Bud_7 Start: 4202, Stop: 5416, Start Num: 12

Candidate Starts for Bud_7:

(Start: 12 @4202 has 404 MA's), (22, 4304), (45, 4436), (70, 4562), (91, 4655), (92, 4658), (98, 4694), (101, 4712), (112, 4754), (125, 4811), (146, 4967), (149, 4973), (173, 5093), (194, 5249), (198, 5303), (206, 5405), (207, 5408),

Gene: Bugatti_3 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for Bugatti_3:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Bumblebee11_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Bumblebee11_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Burger_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Burger_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: BuzzBuzz_3 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for BuzzBuzz_3:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Bxz2_4 Start: 1692, Stop: 2726, Start Num: 12

Candidate Starts for Bxz2_4:

(Start: 10 @1665 has 2 MA's), (Start: 12 @1692 has 404 MA's), (63, 1920), (200, 2640), (208, 2712), (209, 2718),

Gene: Caelakin_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Caelakin_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Caitlin_3 Start: 2306, Stop: 3343, Start Num: 12

Candidate Starts for Caitlin_3:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (74, 2690), (174, 3236), (181, 3275), (188, 3299), (193, 3335),

Gene: Calvinny_4 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Calvinny_4:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Camperdownii_4 Start: 1646, Stop: 2725, Start Num: 12

Candidate Starts for Camperdownii_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (214, 2639), (223, 2711),

Gene: Catalina_7 Start: 4193, Stop: 5236, Start Num: 12

Candidate Starts for Catalina_7:

(Start: 12 @4193 has 404 MA's), (73, 4526), (214, 5153), (215, 5165), (223, 5222), (224, 5228),

Gene: Caviar_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Caviar_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: CentreCat_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for CentreCat_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Cerulean_4 Start: 1643, Stop: 2719, Start Num: 12

Candidate Starts for Cerulean_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (214, 2630), (216, 2648), (223, 2705), (224, 2711),

Gene: Chadwick_4 Start: 2353, Stop: 3402, Start Num: 12

Candidate Starts for Chadwick_4:

(5, 2275), (Start: 11 @2341 has 4 MA's), (Start: 12 @2353 has 404 MA's), (41, 2584), (44, 2590), (74, 2737), (83, 2773), (101, 2878), (118, 2971), (120, 2980), (125, 3004), (129, 3064), (146, 3160), (168, 3274), (177, 3316), (181, 3334), (190, 3361), (192, 3388), (193, 3394),

Gene: ChampagnePapi_4 Start: 1642, Stop: 2718, Start Num: 12

Candidate Starts for ChampagnePapi_4:

(7, 1582), (Start: 12 @1642 has 404 MA's), (Start: 25 @1750 has 2 MA's), (37, 1846), (75, 1960), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: Changeling_7 Start: 4153, Stop: 5271, Start Num: 12

Candidate Starts for Changeling_7:

(Start: 12 @4153 has 404 MA's), (Start: 16 @4222 has 1 MA's), (62, 4435), (64, 4441), (68, 4456), (126, 4798), (210, 5161), (214, 5188), (215, 5200), (223, 5257), (224, 5263),

Gene: Chaph_4 Start: 1645, Stop: 2727, Start Num: 12

Candidate Starts for Chaph_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2620), (216, 2656), (223, 2713), (224, 2719),

Gene: Chiqui_3 Start: 1627, Stop: 2763, Start Num: 12

Candidate Starts for Chiqui_3:

(9, 1591), (Start: 12 @1627 has 404 MA's), (28, 1762), (63, 1900), (90, 2014), (214, 2677), (223, 2749), (224, 2755),

Gene: Chupacabra_4 Start: 1765, Stop: 2814, Start Num: 27

Candidate Starts for Chupacabra_4:

(Start: 12 @1633 has 404 MA's), (23, 1735), (Start: 27 @1765 has 1 MA's), (34, 1825), (35, 1828), (113, 2158), (134, 2314), (158, 2407), (210, 2704), (215, 2743), (216, 2749), (223, 2800), (224, 2806),

Gene: Cici_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Cici_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Cindaradix_4 Start: 1642, Stop: 2718, Start Num: 12

Candidate Starts for Cindaradix_4:

(Start: 12 @1642 has 404 MA's), (Start: 25 @1750 has 2 MA's), (37, 1846), (75, 1960), (216, 2647), (223, 2704), (224, 2710),

Gene: Cintron_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Cintron_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: Citius_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Citius_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Clammy_3 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for Clammy_3:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Clarenza_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Clarenza_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Cocoaberry_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Cocoaberry_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Colbster_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Colbster_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Colin_8 Start: 4293, Stop: 5243, Start Num: 12

Candidate Starts for Colin_8:

(Start: 12 @4293 has 404 MA's), (Start: 16 @4362 has 1 MA's), (62, 4575), (140, 5013), (143, 5034), (211, 5139), (215, 5172), (218, 5202), (223, 5229), (224, 5235),

Gene: Commander_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Commander_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Connomayer_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Connomayer_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Conquerage_7 Start: 4189, Stop: 5220, Start Num: 12

Candidate Starts for Conquerage_7:

(Start: 10 @4162 has 2 MA's), (Start: 12 @4189 has 404 MA's), (214, 5137), (215, 5149), (223, 5206), (224, 5212),

Gene: Conspiracy_4 Start: 2386, Stop: 3441, Start Num: 12

Candidate Starts for Conspiracy_4:

(Start: 11 @2374 has 4 MA's), (Start: 12 @2386 has 404 MA's), (Start: 25 @2497 has 2 MA's), (44, 2614), (53, 2662), (94, 2854), (101, 2902), (121, 3016), (122, 3019), (126, 3058), (129, 3100), (165, 3301), (179, 3364), (181, 3370), (193, 3433),

Gene: Coog_4 Start: 2354, Stop: 3571, Start Num: 12

Candidate Starts for Coog_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (73, 2726), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: Cuco_4 Start: 2385, Stop: 3602, Start Num: 12

Candidate Starts for Cuco_4:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 21 @2478 has 1 MA's), (45, 2619), (70, 2745), (92, 2841), (98, 2877), (101, 2895), (103, 2919), (112, 2937), (117, 2949), (144, 3132), (186, 3366), (191, 3399), (196, 3447), (197, 3456), (198, 3486), (206, 3588), (207, 3591),

Gene: Cullens_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Cullens_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: DaHudson_4 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for DaHudson_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Danforth_3 Start: 2306, Stop: 3358, Start Num: 12

Candidate Starts for Danforth_3:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (94, 2783), (101, 2831), (129, 3029), (149, 3131), (168, 3239), (193, 3350),

Gene: Darrell_7 Start: 4069, Stop: 5115, Start Num: 12

Candidate Starts for Darrell_7:

(Start: 12 @4069 has 404 MA's), (26, 4186), (63, 4354), (68, 4372), (214, 5029), (216, 5047), (223, 5101), (224, 5107),

Gene: DarthPhader_7 Start: 4505, Stop: 5314, Start Num: 12

Candidate Starts for DarthPhader_7:

(Start: 12 @4505 has 404 MA's), (17, 4577), (19, 4586), (32, 4697), (79, 4865), (133, 5201), (154, 5300), (156, 5306),

Gene: Datway_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Datway_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Deano_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Deano_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: DekHockey33_7 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for DekHockey33_7:

(3, 3348), (4, 3393), (5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: Dhanush_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Dhanush_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: Dieselweasel_4 Start: 1681, Stop: 2895, Start Num: 12

Candidate Starts for Dieselweasel_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2809), (223, 2881), (224, 2887),

Gene: DirtyDunning_4 Start: 1643, Stop: 2716, Start Num: 12

Candidate Starts for DirtyDunning_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (214, 2627), (216, 2645), (223, 2702), (224, 2708),

Gene: Discoknowium_4 Start: 2385, Stop: 3710, Start Num: 12

Candidate Starts for Discoknowium_4:

(4, 2226), (Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (30, 2550), (43, 2631), (49, 2667), (52, 2679), (61, 2712), (80, 2808), (96, 2904), (97, 2907), (106, 3012), (107, 3015), (110, 3027), (111, 3030), (114, 3051), (117, 3069), (144, 3264), (149, 3288), (165, 3387), (198, 3597), (206, 3699), (207, 3702),

Gene: Dixon_4 Start: 2307, Stop: 3344, Start Num: 12

Candidate Starts for Dixon_4:

(4, 2148), (Start: 12 @2307 has 404 MA's), (44, 2544), (74, 2691), (174, 3237), (181, 3276), (188, 3300), (193, 3336),

Gene: DropBear_4 Start: 1605, Stop: 2909, Start Num: 12

Candidate Starts for DropBear_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2826), (223, 2895), (224, 2901),

Gene: Druantia_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Druantia_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Dublin_3 Start: 2354, Stop: 3571, Start Num: 12

Candidate Starts for Dublin_3:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: DustyMartin_5 Start: 1860, Stop: 2750, Start Num: 34

Candidate Starts for DustyMartin_5:

(Start: 12 @1668 has 404 MA's), (Start: 27 @1800 has 1 MA's), (30, 1833), (34, 1860), (35, 1863), (134, 2349), (160, 2463), (214, 2667), (215, 2679), (216, 2685), (223, 2736), (224, 2742),

Gene: EZMoney23_7 Start: 4151, Stop: 5341, Start Num: 12

Candidate Starts for EZMoney23_7:

(Start: 12 @4151 has 404 MA's), (73, 4484), (126, 4796), (210, 5231), (214, 5258), (216, 5276), (220, 5309), (223, 5327), (224, 5333),

Gene: Eagle_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Eagle_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: EagleEye_7 Start: 3969, Stop: 4871, Start Num: 12

Candidate Starts for EagleEye_7:

(Start: 12 @3969 has 404 MA's), (44, 4197), (47, 4212), (124, 4479), (128, 4536), (130, 4551), (149, 4644), (165, 4743), (188, 4827), (193, 4863),

Gene: Eapen_4 Start: 1647, Stop: 2720, Start Num: 12

Candidate Starts for Eapen_4:

(7, 1587), (Start: 12 @1647 has 404 MA's), (Start: 25 @1755 has 2 MA's), (37, 1851), (75, 1965), (212, 2613), (216, 2649), (223, 2706), (224, 2712),

Gene: Ebony_7 Start: 4202, Stop: 5416, Start Num: 12

Candidate Starts for Ebony_7:

(Start: 12 @4202 has 404 MA's), (22, 4304), (45, 4436), (70, 4562), (91, 4655), (92, 4658), (98, 4694), (101, 4712), (103, 4736), (112, 4754), (117, 4766), (144, 4949), (146, 4967), (149, 4973), (173, 5093), (194, 5249), (198, 5303), (206, 5405), (207, 5408),

Gene: Edison31_4 Start: 1662, Stop: 2834, Start Num: 12

Candidate Starts for Edison31_4:

(Start: 12 @1662 has 404 MA's), (30, 1827), (34, 1854), (35, 1857), (63, 1935), (105, 2154), (116, 2208), (134, 2343), (162, 2478), (214, 2751), (215, 2763), (216, 2769), (223, 2820), (224, 2826),

Gene: EdogawaKiddo_5 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for EdogawaKiddo_5:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221),

Gene: Eidsmoe_7 Start: 4189, Stop: 5220, Start Num: 12

Candidate Starts for Eidsmoe_7:

(Start: 10 @4162 has 2 MA's), (Start: 12 @4189 has 404 MA's), (214, 5137), (215, 5149), (223, 5206), (224, 5212),

Gene: ElTiger69_4 Start: 2354, Stop: 3403, Start Num: 12

Candidate Starts for ElTiger69_4:

(5, 2276), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (41, 2585), (44, 2591), (74, 2738), (83, 2774), (101, 2879), (118, 2972), (120, 2981), (125,

3005), (129, 3065), (146, 3161), (168, 3275), (177, 3317), (181, 3335), (190, 3362), (192, 3389), (193, 3395),

Gene: Elephantoon_7 Start: 3947, Stop: 4801, Start Num: 12

Candidate Starts for Elephantoon_7:

(Start: 12 @3947 has 404 MA's), (26, 4064), (63, 4232), (82, 4310), (223, 4787), (224, 4793),

Gene: Elle_7 Start: 3244, Stop: 4311, Start Num: 10

Candidate Starts for Elle_7:

(Start: 10 @3244 has 2 MA's), (Start: 12 @3277 has 404 MA's), (33, 3460), (42, 3508), (48, 3538), (58, 3580), (59, 3583), (100, 3802), (102, 3808), (109, 3862), (129, 4021), (183, 4297), (184, 4300),

Gene: Emalyn_26 Start: 21242, Stop: 22129, Start Num: 15

Candidate Starts for Emalyn_26:

(Start: 15 @21242 has 2 MA's), (Start: 16 @21251 has 1 MA's), (26, 21299), (29, 21323), (40, 21389), (45, 21407), (54, 21461), (69, 21515), (70, 21518), (93, 21614), (103, 21671), (126, 21761), (138, 21845), (170, 22019), (176, 22049),

Gene: EmyBug_7 Start: 4189, Stop: 5220, Start Num: 12

Candidate Starts for EmyBug_7:

(Start: 12 @4189 has 404 MA's), (214, 5137), (215, 5149), (223, 5206), (224, 5212),

Gene: EpicPhail_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for EpicPhail_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Epsocamisio_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Epsocamisio_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Eris_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Eris_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Eros_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Eros_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Et2Brutus_6 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Et2Brutus_6:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: EtoileNova_3 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for EtoileNova_3:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Eurydice_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Eurydice_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Expelliarmus_3 Start: 2307, Stop: 3344, Start Num: 12

Candidate Starts for Expelliarmus_3:

(4, 2148), (Start: 12 @2307 has 404 MA's), (44, 2544), (74, 2691), (174, 3237), (181, 3276), (188, 3300), (193, 3336),

Gene: ExplosioNervosa_7 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for ExplosioNervosa_7:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Farber_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for Farber_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Fayely_7 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Fayely_7:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Fernando_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Fernando_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Fibonacci_7 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Fibonacci_7:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: Flaverint_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Flaverint_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Florean_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Florean_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Florence1_4 Start: 2354, Stop: 3409, Start Num: 12

Candidate Starts for Florence1_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (44, 2582), (53, 2630), (94, 2822), (101, 2870), (121, 2984), (122, 2987), (126, 3026), (129, 3068), (165, 3269), (179, 3332), (181, 3338), (193, 3401),

Gene: Florence4_4 Start: 2354, Stop: 3409, Start Num: 12

Candidate Starts for Florence4_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (44, 2582), (53, 2630), (94, 2822), (101, 2870), (121, 2984), (122, 2987), (126, 3026), (129, 3068), (165, 3269), (179, 3332), (181, 3338), (193, 3401),

Gene: Flux_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Flux_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: ForGetIt_4 Start: 2412, Stop: 3467, Start Num: 12

Candidate Starts for ForGetIt_4:

(Start: 11 @2400 has 4 MA's), (Start: 12 @2412 has 404 MA's), (Start: 25 @2523 has 2 MA's), (44, 2640), (53, 2688), (94, 2880), (101, 2928), (121, 3042), (122, 3045), (126, 3084), (129, 3126), (165, 3327), (179, 3390), (181, 3396), (193, 3459),

Gene: ForesterFrank_6 Start: 4143, Stop: 5327, Start Num: 12

Candidate Starts for ForesterFrank_6:

(Start: 12 @4143 has 404 MA's), (Start: 16 @4212 has 1 MA's), (73, 4476), (126, 4788), (131, 4842), (175, 5055), (214, 5244), (216, 5262), (218, 5286), (220, 5295), (223, 5313), (224, 5319),

Gene: Fred313_4 Start: 1605, Stop: 2732, Start Num: 12

Candidate Starts for Fred313_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2646), (223, 2718), (224, 2724),

Gene: Funston_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Funston_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Gadost_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Gadost_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: GaugeLDP_7 Start: 3954, Stop: 4844, Start Num: 12

Candidate Starts for GaugeLDP_7:

(Start: 12 @3954 has 404 MA's), (Start: 25 @4062 has 2 MA's), (63, 4230), (167, 4761), (175, 4773), (189, 4830),

Gene: Gemma_4 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Gemma_4:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: George_3 Start: 2385, Stop: 3602, Start Num: 12

Candidate Starts for George_3:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 21 @2478 has 1 MA's), (45, 2619), (70, 2745), (73, 2757), (92, 2841), (98, 2877), (101, 2895), (103, 2919), (112, 2937), (117, 2949), (144, 3132), (186, 3366), (191, 3399), (196, 3447), (197, 3456), (198, 3486), (206, 3588), (207, 3591),

Gene: Ghoulboy_4 Start: 2354, Stop: 3679, Start Num: 12

Candidate Starts for Ghoulboy_4:

(4, 2195), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (30, 2519), (43, 2600), (49, 2636), (52, 2648), (61, 2681), (80, 2777), (96, 2873), (97, 2876), (106, 2981), (107, 2984), (110, 2996), (111, 2999), (114, 3020), (117, 3038), (125, 3095), (144, 3233), (149, 3257), (165, 3356), (198, 3566), (206, 3668), (207, 3671),

Gene: Gilberta_7 Start: 4193, Stop: 5407, Start Num: 12

Candidate Starts for Gilberta_7:

(Start: 12 @4193 has 404 MA's), (22, 4295), (45, 4427), (70, 4553), (91, 4646), (92, 4649), (98, 4685), (101, 4703), (103, 4727), (112, 4745), (117, 4757), (144, 4940), (146, 4958), (149, 4964), (173, 5084), (194, 5240), (198, 5294), (206, 5396), (207, 5399),

Gene: GingkoMaracino_4 Start: 1681, Stop: 2805, Start Num: 12

Candidate Starts for GingkoMaracino_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2719), (223, 2791), (224, 2797),

Gene: Giroux_4 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for Giroux_4:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Goose_4 Start: 1635, Stop: 2816, Start Num: 12

Candidate Starts for Goose_4:

(Start: 12 @1635 has 404 MA's), (23, 1737), (Start: 27 @1767 has 1 MA's), (34, 1827), (35, 1830), (113, 2160), (134, 2316), (158, 2409), (210, 2706), (215, 2745), (216, 2751), (223, 2802), (224, 2808),

Gene: Grif_4 Start: 1681, Stop: 2715, Start Num: 12

Candidate Starts for Grif_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (200, 2629), (208, 2701), (209, 2707),

Gene: Groundhog_3 Start: 2308, Stop: 3345, Start Num: 12

Candidate Starts for Groundhog_3:

(4, 2149), (Start: 12 @2308 has 404 MA's), (44, 2545), (74, 2692), (174, 3238), (181, 3277), (188, 3301), (193, 3337),

Gene: Groupthink_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Groupthink_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Grub_4 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for Grub_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Grum1_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Grum1_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: GtownJaz_4 Start: 1681, Stop: 2895, Start Num: 12

Candidate Starts for GtownJaz_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2809), (223, 2881), (224, 2887),

Gene: Gwennie_3 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Gwennie_3:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: HamSlice_3 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for HamSlice_3:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (28, 1781), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Hanray_6 Start: 4192, Stop: 5226, Start Num: 12

Candidate Starts for Hanray_6:

(Start: 12 @4192 has 404 MA's), (62, 4474), (68, 4495), (214, 5143), (215, 5155), (223, 5212), (224, 5218),

Gene: Happiness_4 Start: 1644, Stop: 2720, Start Num: 12

Candidate Starts for Happiness_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (214, 2631), (216, 2649), (223, 2706), (224, 2712),

Gene: HashRod_5 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for HashRod_5:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: HaveUMetTed_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for HaveUMetTed_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Heathen_4 Start: 1605, Stop: 2657, Start Num: 12

Candidate Starts for Heathen_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (195, 2574), (199, 2643), (201, 2649),

Gene: Heffalump_8 Start: 4531, Stop: 5598, Start Num: 12

Candidate Starts for Heffalump_8:

(Start: 12 @4531 has 404 MA's), (Start: 16 @4600 has 1 MA's), (36, 4732), (214, 5512), (216, 5530), (219, 5560), (221, 5566), (223, 5584),

Gene: HelDan_4 Start: 1605, Stop: 2909, Start Num: 12

Candidate Starts for HelDan_4:

(8, 1551), (Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2826), (223, 2895), (224, 2901),

Gene: Heliosoles_4 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Heliosoles_4:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Hercules11_4 Start: 1681, Stop: 2634, Start Num: 12

Candidate Starts for Hercules11_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2548), (202, 2620), (203, 2626),

Gene: HippoHollow_7 Start: 4448, Stop: 5308, Start Num: 38

Candidate Starts for HippoHollow_7:

(Start: 12 @4232 has 404 MA's), (Start: 16 @4301 has 1 MA's), (38, 4448), (126, 4862), (145, 4985), (214, 5225), (223, 5294), (224, 5300),

Gene: Horex_6 Start: 4192, Stop: 5226, Start Num: 12

Candidate Starts for Horex_6:

(Start: 12 @4192 has 404 MA's), (62, 4474), (68, 4495), (214, 5143), (215, 5155), (223, 5212), (224, 5218),

Gene: Holli_4 Start: 1645, Stop: 2511, Start Num: 12

Candidate Starts for Holli_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2404), (216, 2440), (223, 2497), (224, 2503),

Gene: Hookmount_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Hookmount_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: HortumSL17_7 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for HortumSL17_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: Houdini22_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Houdini22_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: HuhtaEnerson15_4 Start: 2386, Stop: 3603, Start Num: 12

Candidate Starts for HuhtaEnerson15_4:

(Start: 11 @2374 has 4 MA's), (Start: 12 @2386 has 404 MA's), (Start: 21 @2479 has 1 MA's), (45, 2620), (70, 2746), (73, 2758), (92, 2842), (98, 2878), (101, 2896), (103, 2920), (112, 2938), (117, 2950), (144, 3133), (186, 3367), (191, 3400), (196, 3448), (197, 3457), (198, 3487), (206, 3589), (207, 3592),

Gene: Hutc2_7 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Hutc2_7:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: Huxley_3 Start: 1645, Stop: 2802, Start Num: 12

Candidate Starts for Huxley_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (216, 2731), (223, 2788), (224, 2794),

Gene: ICleared_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for ICleared_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Iceman_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Iceman_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Idleandcovert_3 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for Idleandcovert_3:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Insomnia_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Insomnia_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Iracema64_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Iracema64_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: IronMan_7 Start: 3972, Stop: 5072, Start Num: 12

Candidate Starts for IronMan_7:

(Start: 12 @3972 has 404 MA's), (84, 4347), (104, 4482), (126, 4611), (216, 5001), (223, 5058), (224, 5064),

Gene: Isca_4 Start: 1610, Stop: 2746, Start Num: 12

Candidate Starts for Isca_4:

(6, 1547), (Start: 12 @1610 has 404 MA's), (28, 1745), (60, 1868), (63, 1883), (90, 1997), (214, 2660), (223, 2732), (224, 2738),

Gene: JF2_4 Start: 1608, Stop: 2510, Start Num: 12

Candidate Starts for JF2_4:

(Start: 12 @1608 has 404 MA's), (28, 1743), (60, 1866), (63, 1881), (90, 1995), (214, 2424), (223, 2496), (224, 2502),

Gene: JF4_4 Start: 1608, Stop: 2510, Start Num: 12

Candidate Starts for JF4_4:

(Start: 12 @1608 has 404 MA's), (28, 1743), (60, 1866), (63, 1881), (90, 1995), (214, 2424), (223, 2496), (224, 2502),

Gene: JHC117_4 Start: 1654, Stop: 2625, Start Num: 10

Candidate Starts for JHC117_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: JSwag_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for JSwag_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Jaan_7 Start: 3968, Stop: 5068, Start Num: 12

Candidate Starts for Jaan_7:

(5, 3887), (Start: 12 @3968 has 404 MA's), (31, 4139), (36, 4169), (77, 4310), (84, 4343), (126, 4607), (223, 5054), (224, 5060),

Gene: Jabiru_4 Start: 2354, Stop: 3403, Start Num: 12

Candidate Starts for Jabiru_4:

(5, 2276), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (41, 2585), (44, 2591), (74, 2738), (83, 2774), (101, 2879), (118, 2972), (120, 2981), (125, 3005), (129, 3065), (146, 3161), (168, 3275), (177, 3317), (181, 3335), (190, 3362), (192, 3389), (193, 3395),

Gene: Jabith_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Jabith_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Jaykayelowell_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Jaykayelowell_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: JenCasNa_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for JenCasNa_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: JeppNRM_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for JeppNRM_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: JetBlade_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for JetBlade_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Jiawan_6 Start: 4192, Stop: 5226, Start Num: 12

Candidate Starts for Jiawan_6:

(Start: 12 @4192 has 404 MA's), (62, 4474), (68, 4495), (214, 5143), (215, 5155), (223, 5212), (224, 5218),

Gene: Jobu08_4 Start: 1681, Stop: 2958, Start Num: 12

Candidate Starts for Jobu08_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (39, 1861), (63, 1909), (127, 2305), (214, 2875), (215, 2887), (216, 2893), (223, 2944), (224, 2950),

Gene: JoongJeon_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for JoongJeon_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Joselito_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Joselito_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Jovo_4 Start: 2374, Stop: 3711, Start Num: 11

Candidate Starts for Jovo_4:

(4, 2227), (Start: 11 @2374 has 4 MA's), (Start: 12 @2386 has 404 MA's), (30, 2551), (43, 2632), (49, 2668), (52, 2680), (61, 2713), (80, 2809), (96, 2905), (97, 2908), (106, 3013), (107, 3016), (110, 3028), (111, 3031), (114, 3052), (117, 3070), (144, 3265), (149, 3289), (165, 3388), (198, 3598), (206, 3700), (207, 3703),

Gene: KADY_5 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for KADY_5:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: KFPoly_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for KFPoly_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (113, 2176), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Kachowdy_4 Start: 1605, Stop: 2909, Start Num: 12

Candidate Starts for Kachowdy_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2826), (223, 2895), (224, 2901),

Gene: Kalb97_5 Start: 1683, Stop: 2882, Start Num: 12

Candidate Starts for Kalb97_5:

(Start: 10 @1656 has 2 MA's), (Start: 12 @1683 has 404 MA's), (39, 1863), (63, 1911), (127, 2307), (214, 2796), (216, 2814), (223, 2868), (224, 2874),

Gene: Kalnoky_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Kalnoky_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Kalpine_7 Start: 4413, Stop: 5363, Start Num: 12

Candidate Starts for Kalpine_7:

(Start: 12 @4413 has 404 MA's), (Start: 16 @4482 has 1 MA's), (62, 4695), (140, 5133), (143, 5154), (211, 5259), (215, 5292), (218, 5322), (223, 5349), (224, 5355),

Gene: Kamy_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Kamy_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Katalie136_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Katalie136_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: KatherineG_7 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for KatherineG_7:

(3, 3348), (4, 3393), (5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: KekoraPapaka_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for KekoraPapaka_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Kimba_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Kimba_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Kingmustik0402_4 Start: 1646, Stop: 2710, Start Num: 12

Candidate Starts for Kingmustik0402_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2603), (216, 2639), (223, 2696), (224, 2702),

Gene: Koan_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Koan_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Koreni_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Koreni_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (213, 2623), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: Kratark_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Kratark_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Kristoff_5 Start: 1827, Stop: 2999, Start Num: 12

Candidate Starts for Kristoff_5:

(Start: 12 @1827 has 404 MA's), (30, 1992), (34, 2019), (35, 2022), (63, 2100), (105, 2319), (116, 2373), (134, 2508), (162, 2643), (214, 2916), (215, 2928), (216, 2934), (223, 2985), (224, 2991),

Gene: Kyee_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Kyee_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: LBerry_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for LBerry_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: LHTSCC_4 Start: 1642, Stop: 2718, Start Num: 12

Candidate Starts for LHTSCC_4:

(7, 1582), (Start: 12 @1642 has 404 MA's), (Start: 25 @1750 has 2 MA's), (37, 1846), (75, 1960), (214, 2629), (216, 2647), (223, 2704), (224, 2710),

Gene: Lambert1_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Lambert1_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Landor_7 Start: 3970, Stop: 5070, Start Num: 12

Candidate Starts for Landor_7:

(5, 3889), (Start: 12 @3970 has 404 MA's), (31, 4141), (36, 4171), (73, 4297), (77, 4312), (84, 4345), (126, 4609), (223, 5056), (224, 5062),

Gene: LappelDuVide_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for LappelDuVide_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: LarryKay_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for LarryKay_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: LastResort_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for LastResort_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Lemur_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Lemur_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: LeoAvram_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for LeoAvram_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Leogania_7 Start: 4183, Stop: 5397, Start Num: 12

Candidate Starts for Leogania_7:

(5, 4102), (Start: 12 @4183 has 404 MA's), (Start: 16 @4252 has 1 MA's), (126, 4822), (216, 5329),

Gene: Lev2_4 Start: 2385, Stop: 3440, Start Num: 12

Candidate Starts for Lev2_4:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 25 @2496 has 2 MA's), (44, 2613), (53, 2661), (94, 2853), (101, 2901), (121, 3015), (122, 3018), (126, 3057), (129, 3099), (165, 3300), (179, 3363), (181, 3369), (193, 3432),

Gene: Lilith_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for Lilith_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Lilleskat_5 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for Lilleskat_5:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: LionsBait_7 Start: 4442, Stop: 5302, Start Num: 38

Candidate Starts for LionsBait_7:

(Start: 12 @4226 has 404 MA's), (Start: 16 @4295 has 1 MA's), (38, 4442), (126, 4856), (214, 5219), (223, 5288), (224, 5294),

Gene: LittleB_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for LittleB_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: LittleCherry_4 Start: 2387, Stop: 3604, Start Num: 12

Candidate Starts for LittleCherry_4:

(Start: 11 @2375 has 4 MA's), (Start: 12 @2387 has 404 MA's), (Start: 21 @2480 has 1 MA's), (45, 2621), (70, 2747), (73, 2759), (92, 2843), (98, 2879), (101, 2897), (103, 2921), (112, 2939), (117, 2951), (144, 3134), (186, 3368), (191, 3401), (196, 3449), (197, 3458), (198, 3488), (206, 3590), (207, 3593),

Gene: LittleGuy_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for LittleGuy_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: LochMonster_4 Start: 1643, Stop: 2716, Start Num: 12

Candidate Starts for LochMonster_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (214, 2627), (216, 2645), (223, 2702), (224, 2708),

Gene: Lokk_8 Start: 4396, Stop: 5382, Start Num: 12

Candidate Starts for Lokk_8:

(Start: 12 @4396 has 404 MA's), (90, 4795), (141, 5113), (215, 5308), (221, 5350), (223, 5368), (224, 5374),

Gene: LoneWolf_7 Start: 3950, Stop: 4993, Start Num: 12

Candidate Starts for LoneWolf_7:

(Start: 12 @3950 has 404 MA's), (223, 4979), (224, 4985),

Gene: Looper_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Looper_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Lorenzo_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Lorenzo_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Loser_7 Start: 4131, Stop: 5249, Start Num: 12

Candidate Starts for Loser_7:

(Start: 12 @4131 has 404 MA's), (62, 4413), (64, 4419), (126, 4776), (143, 4878), (210, 5139), (214, 5166), (215, 5178), (223, 5235), (224, 5241),

Gene: Louie6_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Louie6_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Lowa_4 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for Lowa_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Lucivia_7 Start: 4193, Stop: 5407, Start Num: 12

Candidate Starts for Lucivia_7:

(Start: 12 @4193 has 404 MA's), (22, 4295), (45, 4427), (70, 4553), (91, 4646), (92, 4649), (98, 4685), (101, 4703), (103, 4727), (112, 4745), (117, 4757), (144, 4940), (146, 4958), (149, 4964), (173, 5084), (194, 5240), (198, 5294), (206, 5396), (207, 5399),

Gene: Lucyedi_7 Start: 3969, Stop: 4871, Start Num: 12

Candidate Starts for Lucyedi_7:

(Start: 12 @3969 has 404 MA's), (44, 4197), (124, 4479), (128, 4536), (130, 4551), (149, 4644), (165, 4743), (193, 4863),

Gene: LugYA_6 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for LugYA_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Lunsford_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Lunsford_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: MA5_4 Start: 1622, Stop: 2464, Start Num: 12

Candidate Starts for MA5_4:

(Start: 12 @1622 has 404 MA's), (28, 1757), (159, 2381), (163, 2399), (180, 2450), (182, 2456),

Gene: MK4_4 Start: 1608, Stop: 2744, Start Num: 12

Candidate Starts for MK4_4:

(Start: 12 @1608 has 404 MA's), (28, 1743), (60, 1866), (63, 1881), (90, 1995), (214, 2658), (223, 2730), (224, 2736),

Gene: MaCh_7 Start: 4193, Stop: 5407, Start Num: 12

Candidate Starts for MaCh_7:

(Start: 12 @4193 has 404 MA's), (22, 4295), (45, 4427), (70, 4553), (91, 4646), (92, 4649), (98, 4685), (101, 4703), (103, 4727), (112, 4745), (117, 4757), (144, 4940), (146, 4958), (149, 4964), (173, 5084), (194, 5240), (198, 5294), (206, 5396), (207, 5399),

Gene: Mabel_7 Start: 4208, Stop: 5422, Start Num: 12

Candidate Starts for Mabel_7:

(Start: 12 @4208 has 404 MA's), (22, 4310), (45, 4442), (70, 4568), (91, 4661), (92, 4664), (98, 4700), (101, 4718), (112, 4760), (117, 4772), (125, 4817), (149, 4979), (173, 5099), (194, 5255), (198, 5309), (206, 5411), (207, 5414),

Gene: MadMarie_4 Start: 1682, Stop: 2896, Start Num: 12

Candidate Starts for MadMarie_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2810), (223, 2882), (224, 2888),

Gene: Mainiac_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for Mainiac_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Malinsilva_6 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for Malinsilva_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Maminiaina_7 Start: 3953, Stop: 4984, Start Num: 12

Candidate Starts for Maminiaina_7:

(Start: 12 @3953 has 404 MA's), (214, 4901), (215, 4913), (223, 4970), (224, 4976),

Gene: Manu_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Manu_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: MarQuardt_4 Start: 1681, Stop: 2895, Start Num: 12

Candidate Starts for MarQuardt_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2809), (223, 2881), (224, 2887),

Gene: Marchesa_4 Start: 1605, Stop: 2909, Start Num: 12

Candidate Starts for Marchesa_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2826), (223, 2895), (224, 2901),

Gene: Margo_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Margo_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (223, 2746), (224, 2752),

Gene: Marie_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Marie_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Marius_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Marius_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: MarysWell_3 Start: 2448, Stop: 3572, Start Num: 21

Candidate Starts for MarysWell_3:

(Start: 11 @2343 has 4 MA's), (Start: 12 @2355 has 404 MA's), (Start: 21 @2448 has 1 MA's), (45, 2589), (70, 2715), (92, 2811), (98, 2847), (101, 2865), (103, 2889), (112, 2907), (117, 2919), (144, 3102), (186, 3336), (191, 3369), (196, 3417), (197, 3426), (198, 3456), (206, 3558), (207, 3561),

Gene: Maverick_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Maverick_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Maxo_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Maxo_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Mayonnaise_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Mayonnaise_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Mazhar510_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Mazhar510_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Medusa_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Medusa_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: MeeZee_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for MeeZee_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Melvin_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Melvin_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Methuselah_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Methuselah_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Micasa_4 Start: 2355, Stop: 3572, Start Num: 12

Candidate Starts for Micasa_4:

(Start: 11 @2343 has 4 MA's), (Start: 12 @2355 has 404 MA's), (Start: 21 @2448 has 1 MA's), (45, 2589), (70, 2715), (73, 2727), (92, 2811), (98, 2847), (101, 2865), (103, 2889), (112, 2907), (117, 2919), (144, 3102), (186, 3336), (191, 3369), (196, 3417), (197, 3426), (198, 3456), (206, 3558), (207, 3561),

Gene: Microwolf_4 Start: 1681, Stop: 2895, Start Num: 12

Candidate Starts for Microwolf_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2809), (223, 2881), (224, 2887),

Gene: Midas2_4 Start: 2354, Stop: 3571, Start Num: 12

Candidate Starts for Midas2_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (73, 2726), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: Miko_8 Start: 4374, Stop: 5360, Start Num: 12

Candidate Starts for Miko_8:

(Start: 12 @4374 has 404 MA's), (90, 4773), (141, 5091), (215, 5286), (221, 5328), (223, 5346), (224, 5352),

Gene: Milcery_4 Start: 2385, Stop: 3602, Start Num: 12

Candidate Starts for Milcery_4:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 21 @2478 has 1 MA's), (45, 2619), (70, 2745), (73, 2757), (92, 2841), (98, 2877), (101, 2895), (103, 2919), (112, 2937), (117, 2949), (144, 3132), (186, 3366), (191, 3399), (196, 3447), (197, 3456), (198, 3486), (206, 3588), (207, 3591),

Gene: Millski_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Millski_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: MinecraftSteve_8 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for MinecraftSteve_8:

(1, 3294), (3, 3348), (4, 3393), (5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: Miramae_4 Start: 1638, Stop: 2714, Start Num: 12

Candidate Starts for Miramae_4:

(7, 1578), (Start: 12 @1638 has 404 MA's), (Start: 25 @1746 has 2 MA's), (37, 1842), (75, 1956), (214, 2625), (216, 2643), (223, 2700), (224, 2706),

Gene: Misomonster_6 Start: 1681, Stop: 2715, Start Num: 12

Candidate Starts for Misomonster_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (200, 2629), (208, 2701), (209, 2707),

Gene: MoneyMay_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for MoneyMay_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Montavir_3 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Montavir_3:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Morpher26_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Morpher26_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: Morrow_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Morrow_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: MuchMore_6 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for MuchMore_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Mulciber_7 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Mulciber_7:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: Munch_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Munch_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Mundrea_4 Start: 1642, Stop: 2709, Start Num: 12

Candidate Starts for Mundrea_4:

(Start: 12 @1642 has 404 MA's), (Start: 25 @1750 has 2 MA's), (37, 1846), (75, 1960), (214, 2620), (216, 2638), (223, 2695), (224, 2701),

Gene: MyraDee_4 Start: 1517, Stop: 2386, Start Num: 12

Candidate Starts for MyraDee_4:

(Start: 12 @1517 has 404 MA's), (13, 1547), (14, 1556), (147, 2345), (154, 2372), (156, 2378),

Gene: Myxus_7 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for Myxus_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: NearlyHeadless_4 Start: 2306, Stop: 3358, Start Num: 12

Candidate Starts for NearlyHeadless_4:

(Start: 12 @2306 has 404 MA's), (44, 2543), (115, 2912), (129, 3029), (149, 3131), (168, 3239), (178, 3284), (193, 3350),

Gene: Nebs_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Nebs_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Nebulosus_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Nebulosus_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Nemo27_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Nemo27_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: NicoleTera_7 Start: 4172, Stop: 5248, Start Num: 12

Candidate Starts for NicoleTera_7:

(5, 4091), (Start: 12 @4172 has 404 MA's), (30, 4340), (75, 4496), (76, 4502), (171, 4988), (216, 5180), (223, 5234),

Gene: Noella_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Noella_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Noelle_4 Start: 1629, Stop: 2783, Start Num: 12

Candidate Starts for Noelle_4:

(Start: 12 @1629 has 404 MA's), (35, 1824), (75, 1947), (90, 2016), (212, 2676), (216, 2712), (223, 2769), (224, 2775),

Gene: Norbert_3 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Norbert_3:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: NorthStar_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for NorthStar_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: NotAPhaseMom_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for NotAPhaseMom_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: NothingSpecial_6 Start: 4006, Stop: 5202, Start Num: 12

Candidate Starts for NothingSpecial_6:

(5, 3925), (Start: 12 @4006 has 404 MA's), (18, 4084), (126, 4645), (210, 5089), (214, 5116), (216, 5134),

Gene: Nyxis_4 Start: 1648, Stop: 2721, Start Num: 12

Candidate Starts for Nyxis_4:

(7, 1588), (Start: 12 @1648 has 404 MA's), (Start: 25 @1756 has 2 MA's), (37, 1852), (75, 1966), (212, 2614), (216, 2650), (223, 2707), (224, 2713),

Gene: OKCentral2016_4 Start: 1637, Stop: 2374, Start Num: 12

Candidate Starts for OKCentral2016_4:

(Start: 12 @1637 has 404 MA's), (23, 1739), (Start: 27 @1769 has 1 MA's), (34, 1829), (35, 1832), (127, 2264), (135, 2303), (137, 2309), (148, 2360), (152, 2366),

Gene: OKaNui_4 Start: 1644, Stop: 2483, Start Num: 12

Candidate Starts for OKaNui_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (144, 2376), (153, 2412), (166, 2469), (169, 2475),

Gene: Obama12_4 Start: 1644, Stop: 2720, Start Num: 12

Candidate Starts for Obama12_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (214, 2631), (216, 2649), (223, 2706), (224, 2712),

Gene: Ohfah_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Ohfah_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: OlanP_4 Start: 1864, Stop: 3102, Start Num: 12

Candidate Starts for OlanP_4:

(Start: 10 @1837 has 2 MA's), (Start: 12 @1864 has 404 MA's), (39, 2044), (63, 2092), (127, 2488), (214, 2977), (216, 2995), (223, 3049), (224, 3055), (225, 3061),

Gene: Ollie_4 Start: 1681, Stop: 2805, Start Num: 12

Candidate Starts for Ollie_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2719), (223, 2791), (224, 2797),

Gene: Oofda_7 Start: 3417, Stop: 4409, Start Num: 12

Candidate Starts for Oofda_7:

(3, 3204), (4, 3249), (5, 3330), (Start: 12 @3417 has 404 MA's), (33, 3603), (42, 3651), (67, 3759), (89, 3885), (142, 4182), (151, 4239), (164, 4305), (172, 4335), (184, 4398),

Gene: Orange_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Orange_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: P28Green_4 Start: 1682, Stop: 2626, Start Num: 12

Candidate Starts for P28Green_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (188, 2540), (202, 2612), (203, 2618),

Gene: PGHhamlin_6 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for PGHhamlin_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: PackMan_7 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for PackMan_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: PainterBoy_7 Start: 3969, Stop: 4871, Start Num: 12

Candidate Starts for PainterBoy_7:

(Start: 12 @3969 has 404 MA's), (44, 4197), (124, 4479), (128, 4536), (130, 4551), (149, 4644), (165, 4743), (193, 4863),

Gene: Palestino_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Palestino_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Panamaxus_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Panamaxus_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Pawn_4 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Pawn_4:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: Peaches_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Peaches_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Pembroke_4 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for Pembroke_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: Penny1_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Penny1_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Perplexer_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Perplexer_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: PeterPeter_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for PeterPeter_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Petersenfast_6 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Petersenfast_6:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: PetiteSangsue_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for PetiteSangsue_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: PetterN_4 Start: 2354, Stop: 3403, Start Num: 12

Candidate Starts for PetterN_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 25 @2465 has 2 MA's), (41, 2585), (44, 2591), (74, 2738), (83, 2774), (101, 2879), (118, 2972), (120, 2981), (125, 3005), (129, 3065), (146, 3161), (168, 3275), (177, 3317), (181, 3335), (190, 3362), (192, 3389), (193, 3395),

Gene: Phacado_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Phacado_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: Phaded_7 Start: 3967, Stop: 5067, Start Num: 12

Candidate Starts for Phaded_7:

(5, 3886), (Start: 12 @3967 has 404 MA's), (31, 4138), (36, 4168), (77, 4309), (84, 4342), (126, 4606), (223, 5053), (224, 5059),

Gene: Phaeder_7 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for Phaeder_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: Phantastic_4 Start: 1617, Stop: 2831, Start Num: 12

Candidate Starts for Phantastic_4:

(Start: 12 @1617 has 404 MA's), (28, 1752), (37, 1821), (63, 1890), (150, 2376), (216, 2766), (223, 2817), (224, 2823),

Gene: Pharaoh_7 Start: 4476, Stop: 5333, Start Num: 12

Candidate Starts for Pharaoh_7:

(Start: 12 @4476 has 404 MA's), (Start: 25 @4584 has 2 MA's), (46, 4746), (66, 4845), (91, 4968), (154, 5319), (156, 5325),

Gene: Phelipe_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Phelipe_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Phighter1804_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Phighter1804_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (214, 2628), (216, 2646), (223, 2703), (224, 2709),

Gene: Phillis_4 Start: 2306, Stop: 3343, Start Num: 12

Candidate Starts for Phillis_4:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (74, 2690), (174, 3236), (181, 3275), (188, 3299), (193, 3335),

Gene: PhishRPhriends_4 Start: 1686, Stop: 2396, Start Num: 12

Candidate Starts for PhishRPhriends_4:

(Start: 10 @1659 has 2 MA's), (Start: 12 @1686 has 404 MA's), (39, 1866), (63, 1914), (136, 2310), (143, 2328), (155, 2382), (157, 2388),

Gene: Phlorence_4 Start: 2373, Stop: 3710, Start Num: 11

Candidate Starts for Phlorence_4:

(4, 2226), (Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (30, 2550), (43, 2631), (49, 2667), (52, 2679), (61, 2712), (80, 2808), (96, 2904), (97, 2907), (106, 3012), (107, 3015), (110, 3027), (111, 3030), (114, 3051), (117, 3069), (144, 3264), (149, 3288), (165, 3387), (198, 3597), (206, 3699), (207, 3702),

Gene: Phoebe_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Phoebe_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Phonnegut_7 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Phonnegut_7:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Phontbonne_4 Start: 1643, Stop: 2716, Start Num: 12

Candidate Starts for Phontbonne_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (212, 2609), (216, 2645), (223, 2702), (224, 2708),

Gene: Phoxy_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Phoxy_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Phranny_5 Start: 1685, Stop: 2884, Start Num: 12

Candidate Starts for Phranny_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (127, 2309), (214, 2798), (216, 2816), (223, 2870), (224, 2876),

Gene: PickleBack_4 Start: 2386, Stop: 3441, Start Num: 12

Candidate Starts for PickleBack_4:

(Start: 11 @2374 has 4 MA's), (Start: 12 @2386 has 404 MA's), (Start: 25 @2497 has 2 MA's), (44, 2614), (53, 2662), (94, 2854), (101, 2902), (121, 3016), (122, 3019), (126, 3058), (129, 3100), (165, 3301), (179, 3364), (181, 3370), (193, 3433),

Gene: Pioneer_7 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Pioneer_7:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Pipcraft_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Pipcraft_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Pistachio_4 Start: 1612, Stop: 2373, Start Num: 12

Candidate Starts for Pistachio_4:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2188), (214, 2290), (215, 2302), (223, 2359), (224, 2365),

Gene: Pocahontas_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Pocahontas_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Polymorphads_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Polymorphads_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Popcicle_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Popcicle_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: PotatoSplit_5 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for PotatoSplit_5:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Prinashel1_4 Start: 2447, Stop: 3571, Start Num: 21

Candidate Starts for Prinashel1_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (73, 2726), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: Priya_7 Start: 4190, Stop: 5221, Start Num: 12

Candidate Starts for Priya_7:

(Start: 10 @4163 has 2 MA's), (Start: 12 @4190 has 404 MA's), (214, 5138), (215, 5150), (223, 5207), (224, 5213),

Gene: Prudy_6 Start: 4154, Stop: 5263, Start Num: 12

Candidate Starts for Prudy_6:

(5, 4073), (Start: 12 @4154 has 404 MA's), (Start: 16 @4223 has 1 MA's), (62, 4436), (126, 4793), (216, 5192), (223, 5249), (224, 5255),

Gene: Pukovnik_7 Start: 3940, Stop: 5010, Start Num: 12

Candidate Starts for Pukovnik_7:

(5, 3859), (Start: 12 @3940 has 404 MA's), (37, 4147), (71, 4246), (75, 4261), (214, 4927), (215, 4939), (223, 4996), (224, 5002),

Gene: Pumbaa_4 Start: 1643, Stop: 2716, Start Num: 12

Candidate Starts for Pumbaa_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (28, 1778), (37, 1847), (75, 1961), (214, 2627), (216, 2645), (223, 2702), (224, 2708),

Gene: Puppy_4 Start: 1612, Stop: 2445, Start Num: 12

Candidate Starts for Puppy_4:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2260), (215, 2374), (223, 2431), (224, 2437),

Gene: PurpleHaze_4 Start: 1684, Stop: 2883, Start Num: 12

Candidate Starts for PurpleHaze_4:

(Start: 10 @1657 has 2 MA's), (Start: 12 @1684 has 404 MA's), (39, 1864), (63, 1912), (127, 2308), (214, 2797), (216, 2815), (223, 2869), (224, 2875),

Gene: Qobbit_7 Start: 4189, Stop: 5220, Start Num: 12

Candidate Starts for Qobbit_7:

(Start: 10 @4162 has 2 MA's), (Start: 12 @4189 has 404 MA's), (214, 5137), (215, 5149), (223, 5206), (224, 5212),

Gene: QuinnKiro_3 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for QuinnKiro_3:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Rachaly_8 Start: 4394, Stop: 5380, Start Num: 12

Candidate Starts for Rachaly_8:

(Start: 12 @4394 has 404 MA's), (90, 4793), (215, 5306), (221, 5348), (223, 5366), (224, 5372),

Gene: Ravana_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Ravana_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (42, 3648), (48, 3678), (51, 3696), (67, 3756), (69, 3762), (87, 3870), (89, 3882), (123, 4053), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: ReMo_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for ReMo_7:

(1, 3147), (3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (50, 3690), (59, 3723), (73, 3795), (87, 3870), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Reba_5 Start: 1685, Stop: 2557, Start Num: 12

Candidate Starts for Reba_5:

(Start: 10 @1658 has 2 MA's), (Start: 12 @1685 has 404 MA's), (39, 1865), (63, 1913), (214, 2471), (216, 2489), (223, 2543), (224, 2549),

Gene: Rebeuca_5 Start: 1828, Stop: 3000, Start Num: 12

Candidate Starts for Rebeuca_5:

(Start: 12 @1828 has 404 MA's), (30, 1993), (34, 2020), (35, 2023), (63, 2101), (105, 2320), (116, 2374), (134, 2509), (162, 2644), (214, 2917), (215, 2929), (216, 2935), (223, 2986), (224, 2992),

Gene: RedRock_7 Start: 4133, Stop: 5242, Start Num: 12

Candidate Starts for RedRock_7:

(Start: 12 @4133 has 404 MA's), (Start: 16 @4202 has 1 MA's), (62, 4415), (64, 4421), (126, 4778), (143, 4880), (215, 5171), (223, 5228), (224, 5234),

Gene: Relief_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Relief_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Remus_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Remus_7:

(3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (58, 3720), (59, 3723), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: ResDef_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for ResDef_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: RhynO_4 Start: 1673, Stop: 2839, Start Num: 12

Candidate Starts for RhynO_4:

(Start: 12 @1673 has 404 MA's), (23, 1775), (24, 1778), (Start: 25 @1781 has 2 MA's), (28, 1811), (30, 1841), (63, 1949), (134, 2357), (160, 2471), (162, 2492), (214, 2756), (215, 2768), (216, 2774), (223, 2825), (224, 2831),

Gene: Roary_4 Start: 2306, Stop: 3343, Start Num: 12

Candidate Starts for Roary_4:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (74, 2690), (174, 3236), (181, 3275), (188, 3299), (193, 3335),

Gene: RockieBear_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for RockieBear_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Rockstar_4 Start: 1608, Stop: 2744, Start Num: 12

Candidate Starts for Rockstar_4:

(Start: 12 @1608 has 404 MA's), (28, 1743), (60, 1866), (63, 1881), (90, 1995), (214, 2658), (223, 2730), (224, 2736),

Gene: Romney_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Romney_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: Roosevelt_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Roosevelt_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Rosa24_3 Start: 1643, Stop: 2716, Start Num: 12

Candidate Starts for Rosa24_3:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (214, 2627), (216, 2645), (223, 2702), (224, 2708),

Gene: Rosalind_7 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for Rosalind_7:

(1, 3294), (3, 3348), (4, 3393), (5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: Rowdy_5 Start: 1860, Stop: 2750, Start Num: 34

Candidate Starts for Rowdy_5:

(Start: 12 @1668 has 404 MA's), (Start: 27 @1800 has 1 MA's), (30, 1833), (34, 1860), (35, 1863), (134, 2349), (160, 2463), (214, 2667), (215, 2679), (216, 2685), (223, 2736), (224, 2742),

Gene: Ruin_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Ruin_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: Rummer_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Rummer_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: RyeScarlet_8 Start: 4192, Stop: 5226, Start Num: 12

Candidate Starts for RyeScarlet_8:

(Start: 12 @4192 has 404 MA's), (62, 4474), (68, 4495), (214, 5143), (215, 5155), (223, 5212), (224, 5218),

Gene: Sabertooth_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Sabertooth_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Sabia_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for Sabia_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Sabinator_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Sabinator_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Sachima_5 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for Sachima_5:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221),

Gene: Saintus_4 Start: 2306, Stop: 3358, Start Num: 12

Candidate Starts for Saintus_4:

(Start: 12 @2306 has 404 MA's), (44, 2543), (54, 2600), (94, 2783), (129, 3029), (149, 3131), (168, 3239), (178, 3284), (193, 3350),

Gene: Salz_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Salz_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (112, 4748), (125, 4805), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Saskia_6 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Saskia_6:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (56, 4490), (57, 4496), (62, 4517), (70, 4559), (73, 4571), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (117, 4763), (139, 4913), (144, 4946), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: SaturnRing_3 Start: 1612, Stop: 2826, Start Num: 12

Candidate Starts for SaturnRing_3:

(Start: 12 @1612 has 404 MA's), (28, 1747), (63, 1885), (90, 1999), (205, 2641), (214, 2743), (215, 2755), (223, 2812), (224, 2818),

Gene: Scamp_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Scamp_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Scherzo_7 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Scherzo_7:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Scorpia_4 Start: 2355, Stop: 3404, Start Num: 12

Candidate Starts for Scorpia_4:

(5, 2277), (Start: 11 @2343 has 4 MA's), (Start: 12 @2355 has 404 MA's), (Start: 25 @2466 has 2 MA's), (44, 2592), (74, 2739), (83, 2775), (101, 2880), (118, 2973), (120, 2982), (125, 3006), (129, 3066), (146, 3162), (168, 3276), (177, 3318), (181, 3336), (190, 3363), (192, 3390), (193, 3396),

Gene: SenorClean_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for SenorClean_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Shaka_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Shaka_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Sham4_7 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Sham4_7:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: Shapes_5 Start: 1668, Stop: 2750, Start Num: 12

Candidate Starts for Shapes_5:

(Start: 12 @1668 has 404 MA's), (Start: 27 @1800 has 1 MA's), (30, 1833), (34, 1860), (35, 1863), (134, 2349), (160, 2463), (214, 2667), (215, 2679), (216, 2685), (223, 2736), (224, 2742),

Gene: ShayRa_8 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for ShayRa_8:

(Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: SheldonCooper_4 Start: 1643, Stop: 2719, Start Num: 12

Candidate Starts for SheldonCooper_4:

(7, 1583), (Start: 12 @1643 has 404 MA's), (Start: 25 @1751 has 2 MA's), (37, 1847), (75, 1961), (214, 2630), (216, 2648), (223, 2705), (224, 2711),

Gene: Shygu2_4 Start: 1644, Stop: 2720, Start Num: 12

Candidate Starts for Shygu2_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (214, 2631), (216, 2649), (223, 2706), (224, 2712),

Gene: Skipitt_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Skipitt_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Smeadley_4 Start: 2306, Stop: 3343, Start Num: 12

Candidate Starts for Smeadley_4:

(4, 2147), (Start: 12 @2306 has 404 MA's), (44, 2543), (74, 2690), (174, 3236), (181, 3275), (188, 3299), (193, 3335),

Gene: Snape_7 Start: 4202, Stop: 5416, Start Num: 12

Candidate Starts for Snape_7:

(Start: 12 @4202 has 404 MA's), (22, 4304), (45, 4436), (70, 4562), (91, 4655), (92, 4658), (98, 4694), (101, 4712), (112, 4754), (125, 4811), (146, 4967), (149, 4973), (173, 5093), (194, 5249), (198, 5303), (206, 5405), (207, 5408),

Gene: Snickers_4 Start: 1681, Stop: 2868, Start Num: 12

Candidate Starts for Snickers_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2782), (223, 2854), (224, 2860),

Gene: SoYo_4 Start: 1681, Stop: 2805, Start Num: 12

Candidate Starts for SoYo_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2719), (223, 2791), (224, 2797),

Gene: SoilDragon_4 Start: 1681, Stop: 2568, Start Num: 12

Candidate Starts for SoilDragon_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2485), (215, 2497), (216, 2503), (223, 2554), (224, 2560),

Gene: Soshari_6 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Soshari_6:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Soups_7 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for Soups_7:

(5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (42, 3795), (51, 3843), (67, 3903), (69, 3909), (87, 4017), (89, 4029), (123, 4200), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: Sparxx_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Sparxx_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Spike509_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for Spike509_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: Spino_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Spino_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Spouty_7 Start: 4189, Stop: 5220, Start Num: 12

Candidate Starts for Spouty_7:

(Start: 10 @4162 has 2 MA's), (Start: 12 @4189 has 404 MA's), (214, 5137), (215, 5149), (223, 5206), (224, 5212),

Gene: Stagni_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for Stagni_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Stasia_4 Start: 1647, Stop: 2741, Start Num: 12

Candidate Starts for Stasia_4:

(Start: 12 @1647 has 404 MA's), (Start: 25 @1755 has 2 MA's), (55, 1890), (73, 1968), (78, 1986), (86, 2025), (134, 2316), (158, 2418), (216, 2670), (223, 2727), (224, 2733),

Gene: SteMason_3 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for SteMason_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: StepMih_4 Start: 1682, Stop: 2887, Start Num: 12

Candidate Starts for StepMih_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (214, 2801), (223, 2873), (224, 2879),

Gene: Stephig9_4 Start: 2307, Stop: 3344, Start Num: 12

Candidate Starts for Stephig9_4:

(4, 2148), (Start: 12 @2307 has 404 MA's), (44, 2544), (74, 2691), (174, 3237), (181, 3276), (188, 3300), (193, 3336),

Gene: Stink_4 Start: 1639, Stop: 2715, Start Num: 12

Candidate Starts for Stink_4:

(7, 1579), (Start: 12 @1639 has 404 MA's), (Start: 25 @1747 has 2 MA's), (37, 1843), (75, 1957), (214, 2626), (216, 2644), (223, 2701), (224, 2707),

Gene: Strosahl_7 Start: 3414, Stop: 4406, Start Num: 12

Candidate Starts for Strosahl_7:

(3, 3201), (4, 3246), (5, 3327), (Start: 12 @3414 has 404 MA's), (33, 3600), (58, 3720), (59, 3723), (142, 4179), (151, 4236), (164, 4302), (172, 4332), (184, 4395),

Gene: Sultana_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Sultana_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Swirley_4 Start: 2354, Stop: 3571, Start Num: 12

Candidate Starts for Swirley_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (73, 2726), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: Switzerland_7 Start: 3561, Stop: 4553, Start Num: 12

Candidate Starts for Switzerland_7:

(1, 3294), (3, 3348), (4, 3393), (5, 3474), (Start: 12 @3561 has 404 MA's), (33, 3747), (58, 3867), (59, 3870), (142, 4326), (151, 4383), (164, 4449), (172, 4479), (184, 4542),

Gene: SydNat_4 Start: 2354, Stop: 3679, Start Num: 12

Candidate Starts for SydNat_4:

(4, 2195), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (30, 2519), (43, 2600), (49, 2636), (52, 2648), (61, 2681), (80, 2777), (96, 2873), (97, 2876), (106, 2981), (107, 2984), (110, 2996), (111, 2999), (114, 3020), (117, 3038), (125, 3095), (144, 3233), (149, 3257), (165, 3356), (198, 3566), (206, 3668), (207, 3671),

Gene: TNguyen7_4 Start: 1610, Stop: 2824, Start Num: 12

Candidate Starts for TNguyen7_4:

(Start: 12 @1610 has 404 MA's), (28, 1745), (63, 1883), (90, 1997), (205, 2639), (214, 2741), (215, 2753), (223, 2810), (224, 2816),

Gene: Taquarus_4 Start: 1648, Stop: 2721, Start Num: 12

Candidate Starts for Taquarus_4:

(7, 1588), (Start: 12 @1648 has 404 MA's), (Start: 25 @1756 has 2 MA's), (37, 1852), (75, 1966), (212, 2614), (216, 2650), (223, 2707), (224, 2713),

Gene: Tarynearal_3 Start: 2383, Stop: 3600, Start Num: 12

Candidate Starts for Tarynearal_3:

(Start: 11 @2371 has 4 MA's), (Start: 12 @2383 has 404 MA's), (Start: 21 @2476 has 1 MA's), (45, 2617), (70, 2743), (73, 2755), (92, 2839), (98, 2875), (101, 2893), (103, 2917), (112, 2935), (117, 2947), (144, 3130), (186, 3364), (191, 3397), (196, 3445), (197, 3454), (198, 3484), (206, 3586), (207, 3589),

Gene: Taurus_4 Start: 1681, Stop: 2625, Start Num: 12

Candidate Starts for Taurus_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (188, 2539), (202, 2611), (203, 2617),

Gene: Texage_3 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Texage_3:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Thanksgivukkah_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Thanksgivukkah_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (37, 1850), (75, 1964), (212, 2612), (216, 2648), (223, 2705), (224, 2711),

Gene: Theia_3 Start: 2355, Stop: 3572, Start Num: 12

Candidate Starts for Theia_3:

(Start: 11 @2343 has 4 MA's), (Start: 12 @2355 has 404 MA's), (Start: 21 @2448 has 1 MA's), (45, 2589), (70, 2715), (92, 2811), (98, 2847), (101, 2865), (103, 2889), (112, 2907), (117, 2919), (144, 3102), (186, 3336), (191, 3369), (196, 3417), (197, 3426), (198, 3456), (206, 3558), (207, 3561),

Gene: Tiffany_4 Start: 1682, Stop: 2896, Start Num: 12

Candidate Starts for Tiffany_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (204, 2699), (214, 2810), (223, 2882), (224, 2888),

Gene: Tiger_4 Start: 2385, Stop: 3440, Start Num: 12

Candidate Starts for Tiger_4:

(Start: 11 @2373 has 4 MA's), (Start: 12 @2385 has 404 MA's), (Start: 25 @2496 has 2 MA's), (44, 2613), (53, 2661), (94, 2853), (101, 2901), (121, 3015), (122, 3018), (126, 3057), (129, 3099), (165, 3300), (179, 3363), (181, 3369), (193, 3432),

Gene: Timothy_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for Timothy_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: TinaFeyge_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for TinaFeyge_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: TinyPebbles_4 Start: 1682, Stop: 2716, Start Num: 12

Candidate Starts for TinyPebbles_4:

(Start: 10 @1655 has 2 MA's), (Start: 12 @1682 has 404 MA's), (63, 1910), (200, 2630), (208, 2702), (209, 2708),

Gene: TinyTimmy_7 Start: 4196, Stop: 5410, Start Num: 12

Candidate Starts for TinyTimmy_7:

(Start: 12 @4196 has 404 MA's), (22, 4298), (45, 4430), (70, 4556), (91, 4649), (92, 4652), (98, 4688), (101, 4706), (103, 4730), (112, 4748), (117, 4760), (144, 4943), (146, 4961), (149, 4967), (173, 5087), (194, 5243), (198, 5297), (206, 5399), (207, 5402),

Gene: Tinybot_3 Start: 1645, Stop: 2721, Start Num: 12

Candidate Starts for Tinybot_3:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (214, 2632), (216, 2650), (223, 2707), (224, 2713),

Gene: TiroTheta9_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for TiroTheta9_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Todacoro_4 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Todacoro_4:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Topanga_4 Start: 1711, Stop: 2889, Start Num: 12

Candidate Starts for Topanga_4:

(7, 1651), (Start: 12 @1711 has 404 MA's), (Start: 27 @1843 has 1 MA's), (30, 1876), (34, 1903), (108, 2218), (134, 2398), (162, 2533), (214, 2806), (216, 2824), (218, 2848), (223, 2875), (224, 2881),

Gene: Tristan_7 Start: 3974, Stop: 5074, Start Num: 12

Candidate Starts for Tristan_7:

(5, 3893), (Start: 12 @3974 has 404 MA's), (31, 4145), (36, 4175), (77, 4316), (84, 4349), (126, 4613), (223, 5060), (224, 5066),

Gene: Trixie_7 Start: 4278, Stop: 5228, Start Num: 12

Candidate Starts for Trixie_7:

(5, 4197), (Start: 12 @4278 has 404 MA's), (Start: 16 @4347 has 1 MA's), (62, 4560), (140, 4998), (143, 5019), (211, 5124), (215, 5157), (223, 5214), (224, 5220),

Gene: TroyPia_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for TroyPia_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Tubs_7 Start: 4192, Stop: 5235, Start Num: 12

Candidate Starts for Tubs_7:

(Start: 12 @4192 has 404 MA's), (73, 4525), (214, 5152), (215, 5164), (223, 5221), (224, 5227),

Gene: Twigg_4 Start: 2354, Stop: 3571, Start Num: 12

Candidate Starts for Twigg_4:

(Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (Start: 21 @2447 has 1 MA's), (45, 2588), (70, 2714), (73, 2726), (92, 2810), (98, 2846), (101, 2864), (103, 2888), (112, 2906), (117, 2918), (144, 3101), (186, 3335), (191, 3368), (196, 3416), (197, 3425), (198, 3455), (206, 3557), (207, 3560),

Gene: Twister_4 Start: 1661, Stop: 2833, Start Num: 12

Candidate Starts for Twister_4:

(Start: 12 @1661 has 404 MA's), (30, 1826), (34, 1853), (35, 1856), (63, 1934), (105, 2153), (116, 2207), (134, 2342), (162, 2477), (214, 2750), (215, 2762), (216, 2768), (223, 2819), (224, 2825),

Gene: TygerBlood_4 Start: 1647, Stop: 2720, Start Num: 12

Candidate Starts for TygerBlood_4:

(7, 1587), (Start: 12 @1647 has 404 MA's), (Start: 25 @1755 has 2 MA's), (37, 1851), (75, 1965), (212, 2613), (216, 2649), (223, 2706), (224, 2712),

Gene: Ugenie5_5 Start: 4192, Stop: 5223, Start Num: 12

Candidate Starts for Ugenie5_5:

(Start: 12 @4192 has 404 MA's), (214, 5140), (215, 5152), (223, 5209), (224, 5215),

Gene: Ulysses_4 Start: 1646, Stop: 2719, Start Num: 12

Candidate Starts for Ulysses_4:

(7, 1586), (Start: 12 @1646 has 404 MA's), (Start: 25 @1754 has 2 MA's), (28, 1781), (37, 1850), (75, 1964), (216, 2648), (223, 2705), (224, 2711),

Gene: UnionJack_4 Start: 2352, Stop: 3407, Start Num: 12

Candidate Starts for UnionJack_4:

(Start: 11 @2340 has 4 MA's), (Start: 12 @2352 has 404 MA's), (Start: 25 @2463 has 2 MA's), (44, 2580), (53, 2628), (94, 2820), (101, 2868), (121, 2982), (122, 2985), (126, 3024), (129, 3066), (165, 3267), (179, 3330), (181, 3336), (193, 3399),

Gene: Veracruz_3 Start: 1633, Stop: 2760, Start Num: 12

Candidate Starts for Veracruz_3:

(6, 1570), (8, 1579), (Start: 12 @1633 has 404 MA's), (13, 1663), (20, 1720), (Start: 27 @1765 has 1 MA's), (63, 1906), (88, 2014), (132, 2302), (214, 2674), (216, 2692), (223, 2746), (224, 2752),

Gene: Vix_4 Start: 1681, Stop: 2715, Start Num: 12

Candidate Starts for Vix_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (200, 2629), (208, 2701), (209, 2707),

Gene: Waits_7 Start: 3413, Stop: 4405, Start Num: 12

Candidate Starts for Waits_7:

(3, 3200), (4, 3245), (5, 3326), (Start: 12 @3413 has 404 MA's), (33, 3599), (58, 3719), (59, 3722), (142, 4178), (151, 4235), (164, 4301), (172, 4331), (184, 4394),

Gene: WalterMcMickey_4 Start: 1661, Stop: 2833, Start Num: 12

Candidate Starts for WalterMcMickey_4:

(Start: 12 @1661 has 404 MA's), (30, 1826), (34, 1853), (35, 1856), (63, 1934), (105, 2153), (116, 2207), (134, 2342), (162, 2477), (214, 2750), (215, 2762), (216, 2768), (223, 2819), (224, 2825),

Gene: Wander_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for Wander_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Warrior24_7 Start: 3417, Stop: 4409, Start Num: 12

Candidate Starts for Warrior24_7:

(3, 3204), (4, 3249), (5, 3330), (Start: 12 @3417 has 404 MA's), (33, 3603), (42, 3651), (67, 3759), (89, 3885), (142, 4182), (151, 4239), (164, 4305), (172, 4335), (184, 4398),

Gene: Watson_4 Start: 1681, Stop: 2886, Start Num: 12

Candidate Starts for Watson_4:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2800), (223, 2872), (224, 2878),

Gene: WeiHuaDA_8 Start: 4411, Stop: 5442, Start Num: 12

Candidate Starts for WeiHuaDA_8:

(Start: 12 @4411 has 404 MA's), (Start: 16 @4480 has 1 MA's), (62, 4693), (140, 5131), (143, 5152), (215, 5371), (216, 5377), (223, 5428), (224, 5434),

Gene: Wilbur_4 Start: 1644, Stop: 2717, Start Num: 12

Candidate Starts for Wilbur_4:

(7, 1584), (Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (212, 2610), (216, 2646), (223, 2703), (224, 2709),

Gene: Wile_4 Start: 1645, Stop: 2730, Start Num: 12

Candidate Starts for Wile_4:

(Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (90, 2035), (216, 2659), (223, 2716), (224, 2722),

Gene: Wizard007_4 Start: 1647, Stop: 2720, Start Num: 12

Candidate Starts for Wizard007_4:

(7, 1587), (Start: 12 @1647 has 404 MA's), (Start: 25 @1755 has 2 MA's), (37, 1851), (75, 1965), (212, 2613), (216, 2649), (223, 2706), (224, 2712),

Gene: Wolpertinger_6 Start: 4199, Stop: 5413, Start Num: 12

Candidate Starts for Wolpertinger_6:

(Start: 12 @4199 has 404 MA's), (22, 4301), (45, 4433), (70, 4559), (91, 4652), (92, 4655), (98, 4691), (101, 4709), (112, 4751), (125, 4808), (146, 4964), (149, 4970), (173, 5090), (194, 5246), (198, 5300), (206, 5402), (207, 5405),

Gene: Wooldri_6 Start: 1681, Stop: 2805, Start Num: 12

Candidate Starts for Wooldri_6:

(Start: 10 @1654 has 2 MA's), (Start: 12 @1681 has 404 MA's), (63, 1909), (214, 2719), (223, 2791), (224, 2797),

Gene: Xena_4 Start: 1644, Stop: 2729, Start Num: 12

Candidate Starts for Xena_4:

(Start: 12 @1644 has 404 MA's), (Start: 25 @1752 has 2 MA's), (37, 1848), (75, 1962), (90, 2034), (216, 2658), (223, 2715), (224, 2721),

Gene: YoSam321_4 Start: 1645, Stop: 2718, Start Num: 12

Candidate Starts for YoSam321_4:

(7, 1585), (Start: 12 @1645 has 404 MA's), (Start: 25 @1753 has 2 MA's), (37, 1849), (75, 1963), (212, 2611), (216, 2647), (223, 2704), (224, 2710),

Gene: Zарафа_4 Start: 1605, Stop: 2918, Start Num: 12

Candidate Starts for Zарафа_4:

(Start: 12 @1605 has 404 MA's), (28, 1740), (60, 1863), (63, 1878), (72, 1911), (214, 2835), (223, 2904), (224, 2910),

Gene: Zetzy_4 Start: 1683, Stop: 2717, Start Num: 12

Candidate Starts for Zetzy_4:

(Start: 10 @1656 has 2 MA's), (Start: 12 @1683 has 404 MA's), (63, 1911), (200, 2631), (208, 2703), (209, 2709),

Gene: Zimmer_7 Start: 4514, Stop: 5293, Start Num: 12

Candidate Starts for Zimmer_7:

(Start: 12 @4514 has 404 MA's), (13, 4544), (14, 4553), (19, 4595), (32, 4706), (154, 5279),

Gene: Zolita_3 Start: 2354, Stop: 3679, Start Num: 12

Candidate Starts for Zolita_3:

(4, 2195), (Start: 11 @2342 has 4 MA's), (Start: 12 @2354 has 404 MA's), (30, 2519), (43, 2600), (49, 2636), (52, 2648), (61, 2681), (80, 2777), (96, 2873), (97, 2876), (106, 2981), (107, 2984), (110, 2996), (111, 2999), (114, 3020), (117, 3038), (125, 3095), (144, 3233), (149, 3257), (165, 3356), (198, 3566), (206, 3668), (207, 3671),