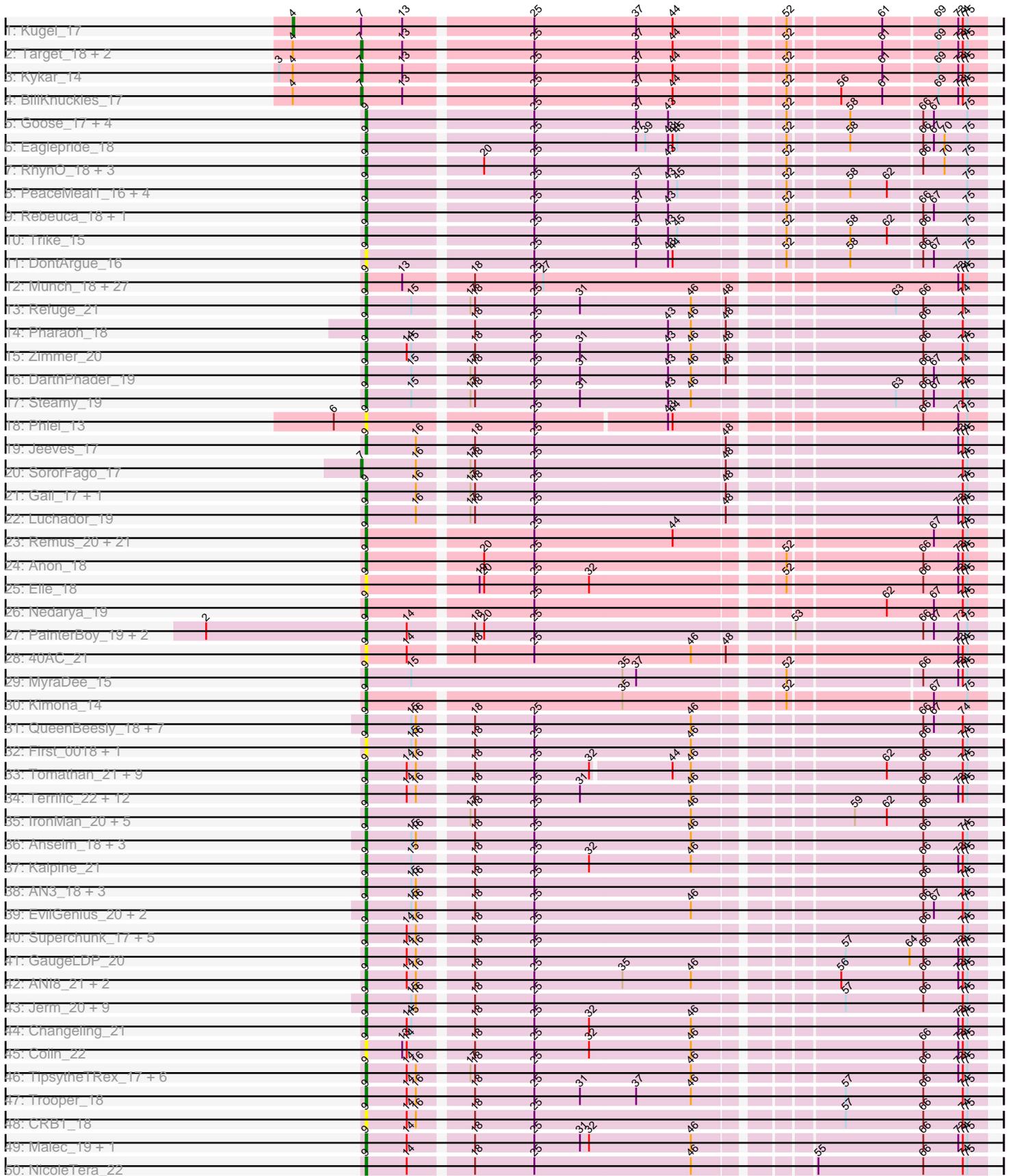
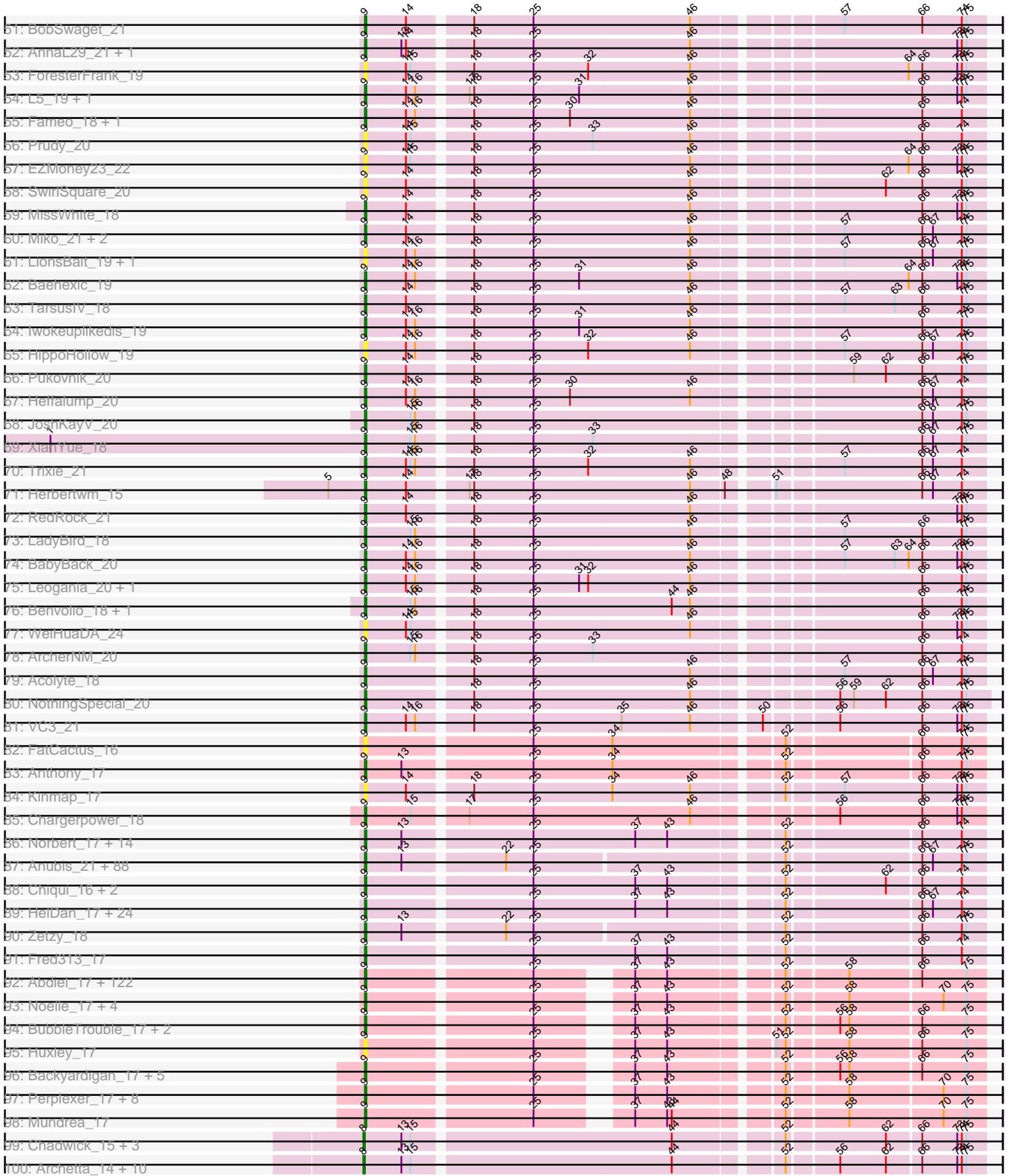


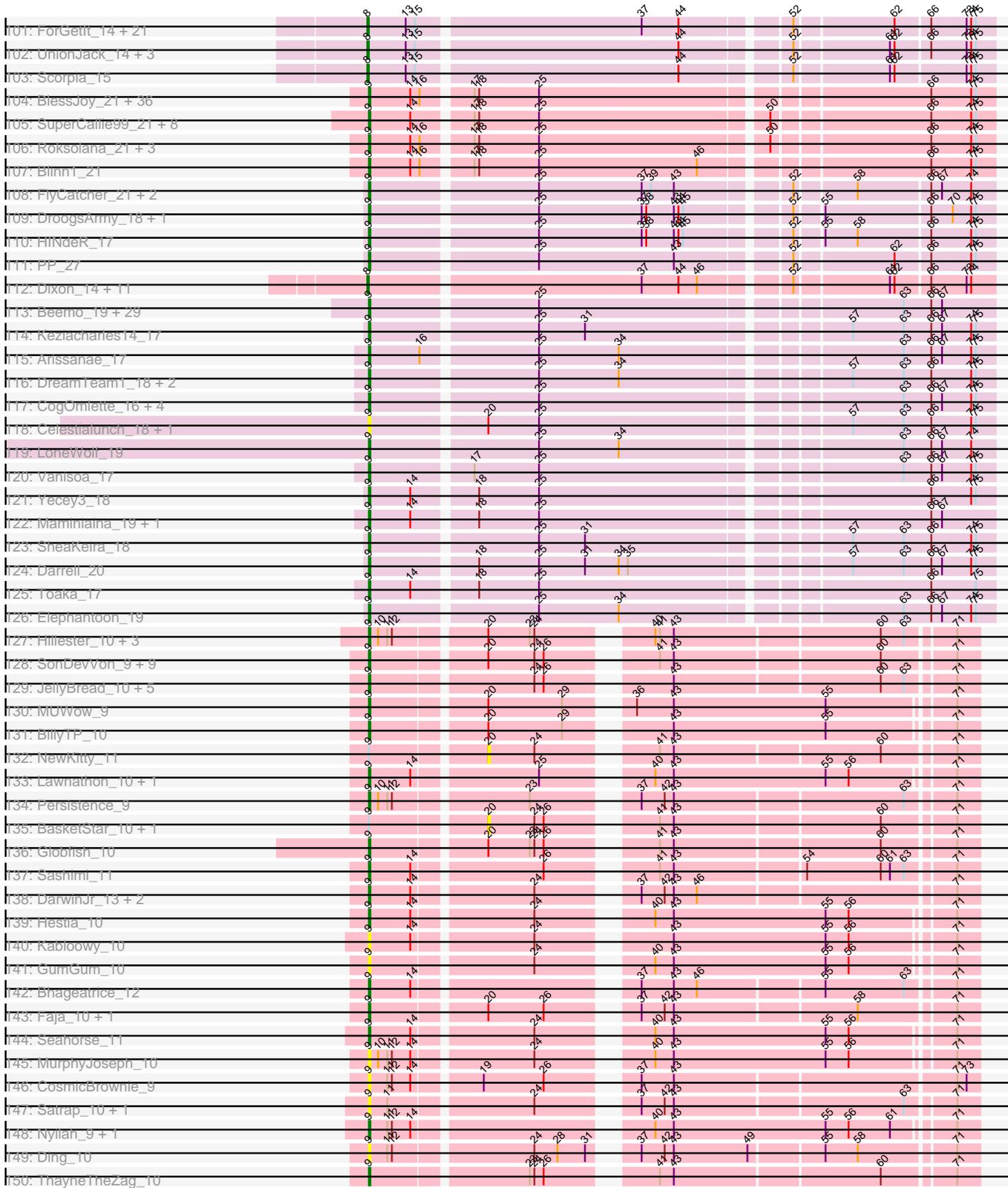
Pham 283342



Pham 283342



Pham 283342



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 283342 Report

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

Pham number 283342 has 760 members, 108 are drafts.

Phages represented in each track:

- Track 1 : Kugel_17
- Track 2 : Target_18, Whitspit_17, Bxb1_15
- Track 3 : Kykar_14
- Track 4 : BillKnuckles_17
- Track 5 : Goose_17, OKCentral2016_17, Chupacabra_17, WalterMcMickey_17, Twister_17
- Track 6 : Eaglepride_18
- Track 7 : RhynO_18, Shapes_20, Rowdy_20, DustyMartin_20
- Track 8 : PeaceMeal1_16, Severus_16, Drake94_16, KittenMittens_16, Poompha_16
- Track 9 : Rebeuca_18, Kristoff_18
- Track 10 : Trike_15
- Track 11 : DontArgue_16
- Track 12 : Munch_18, Aneem_18, Salz_18, Lucivia_18, MaCh_18, Insomnia_18, Jabith_18, TinyTimmy_18, Et2Brutus_17, Orange_18, Flaverint_18, Fibonacci_18, Bowtie_18, Wolpertinger_17, Kimba_18, Sham4_18, Petersenfast_17, Bachome_18, Ebony_18, Gilberta_18, Timothy_18, Joselito_18, Mulciber_18, Bud_18, Saskia_17, Mabel_18, Hutc2_18, Snape_18
- Track 13 : Refuge_21
- Track 14 : Pharaoh_18
- Track 15 : Zimmer_20
- Track 16 : DarthPhader_19
- Track 17 : Steamy_19
- Track 18 : Phlei_13
- Track 19 : Jeeves_17
- Track 20 : SororFago_17
- Track 21 : Gail_17, Sunhee_16
- Track 22 : Luchador_19
- Track 23 : Remus_20, Ravana_21, Switzerland_20, Battleship_21, LastResort_20, JSwag_20, ShayRa_21, MinecraftSteve_21, Warrior24_20, Rosalind_20, KatherineG_20, DekHockey33_20, Oofda_20, Waits_20, Nebulosus_20, Looper_21, ReMo_20, Anaysia_20, Epsocamisio_20, Strosahl_20, Boohoo_20, Soups_20
- Track 24 : Anon_18
- Track 25 : Elle_18
- Track 26 : Nedarya_19
- Track 27 : PainterBoy_19, Lucyedi_19, EagleEye_20
- Track 28 : 40AC_21

- Track 29 : MyraDee_15
- Track 30 : Kimona_14
- Track 31 : QueenBeesly_18, SemperFi_20, Georgie2_19, SweetiePie_18, FiringLine_18, Power_18, Crucio_18, SnapTap_18
- Track 32 : First_0018, 20ES_18
- Track 33 : Tomathan_21, D29_19, Travvers_21, Duplo_21, Kerberos_21, DBQu4n_21, D32_21, StarStuff_21, Pomar16_21, Naji_21
- Track 34 : Terrific_22, HarryHoudini_20, Updawg_20, NaSiaTalie_18, Flare16_18, Equemioh13_20, Gratitude_19, Sknot_18, MiculUcigas_18, WideWale_20, Centaur_20, Drake55_20, Piro94_19
- Track 35 : IronMan_20, Phaded_21, Landor_19, Tristan_19, Bactobuster_19, Jaan_21
- Track 36 : Anselm_18, DudeLittle_18, Retro23_18, Dalmatian_18
- Track 37 : Kalpine_21
- Track 38 : AN3_18, Deloris_19, VA6_18, BengiVuitton_19
- Track 39 : EvilGenius_20, KingCyrus_20, ChipMunk_20
- Track 40 : Superchunk_17, Caraxes_17, Che12_20, Odin_17, Ph8s_19, Adzzy_19
- Track 41 : GaugeLDP_20
- Track 42 : ANI8_21, AN9_21, C3_16
- Track 43 : Jerm_20, Dignity_20, Whabigail7_20, Smeagan_20, Buggy_20, Leviathan_20, LilTurb_20, Agape74_20, AbbyPaige_20, Turbido_20
- Track 44 : Changeling_21
- Track 45 : Colin_22
- Track 46 : TipsytheTRex_17, Bradman_17, Quokka_16, Serenity_17, Journey13_16, Jsquared_17, MajorMajor_17
- Track 47 : Trooper_18
- Track 48 : CRB1_18
- Track 49 : Malec_19, Larenn_19
- Track 50 : NicoleTera_22
- Track 51 : BobSwaget_21
- Track 52 : AnnaL29_21, Loser_21
- Track 53 : ForesterFrank_19
- Track 54 : L5_19, Koduck_18
- Track 55 : Fameo_18, QueenB2_18
- Track 56 : Prudy_20
- Track 57 : EZMoney23_22
- Track 58 : SwirlSquare_20
- Track 59 : MissWhite_18
- Track 60 : Miko_21, Rachaly_21, Lokk_21
- Track 61 : LionsBait_19, DeerParkTS_19
- Track 62 : Baehexic_19
- Track 63 : TarsusIV_18
- Track 64 : Iwokeuplikedis_19
- Track 65 : HippoHollow_19
- Track 66 : Pukovnik_20
- Track 67 : Heffalump_20
- Track 68 : JoshKayV_20
- Track 69 : XianYue_18
- Track 70 : Trixie_21
- Track 71 : Herbertwm_15
- Track 72 : RedRock_21
- Track 73 : LadyBird_18
- Track 74 : BabyBack_20

- Track 75 : Leogania_20, BiancaTri92_20
- Track 76 : Benvolio_18, Echild_18
- Track 77 : WeiHuaDA_24
- Track 78 : ArcherNM_20
- Track 79 : Acolyte_18
- Track 80 : NothingSpecial_20
- Track 81 : VC3_21
- Track 82 : FatCactus_16
- Track 83 : Anthony_17
- Track 84 : Kinmap_17
- Track 85 : Chargerpower_18
- Track 86 : Norbert_17, Popcicle_18, Veracruz_17, Noella_18, Caviar_18, Panamaxus_18, Todacoro_18, ResDef_18, Hookmount_18, EtoileNova_18, Texage_17, Margo_18, Lambert1_18, Pocahontas_18, QuinnKiro_17
- Track 87 : Anubis_21, Grum1_19, JenCasNa_19, Misomonster_21, Louie6_19, Lowa_19, Malinsilva_21, Wooldri_21, Mainiac_19, Hercules11_19, P28Green_19, Heliosoles_19, Bigflo_19, SoYo_19, Rummer_19, TinyPebbles_19, MadMarie_19, StepMih_19, Stagni_19, HaveUMetTed_20, Methuselah_19, KADY_20, MoneyMay_19, Calvinny_20, PhishRPhriends_18, Marie_19, HashRod_20, GingkoMaracino_19, Sabinator_19, Bxz2_19, Beauxregard13_19, Gwennie_18, Grub_19, Croquant_20, Ollie_19, PotatoSplit_20, Farber_19, ACFishhook_19, PGHhamlin_21, OlanP_19, Microwolf_19, AgronaGT15_19, Vix_19, AugsMagnumOpus_21, Dieselweasel_19, JHC117_19, Gemma_19, MuchMore_21, BreSam8_19, Pawn_19, BuzzBuzz_18, Colbster_19, DaHudson_19, LarryKay_19, Kalb97_20, Daishi_18, LugYA_21, Phoebe_19, Taurus_19, LBerry_19, Groupthink_20, SoilDragon_19, GtownJaz_19, Manu_20, Phranny_20, Grif_19, Tiffany_19, PurpleHaze_19, Penny1_19, EpicPhail_19, ClownCar_20, JeppNRM_20, Montavir_18, Pembroke_19, Cullens_19, Aglet_19, Phoxy_19, MarQuardt_19, Watson_19, Fernando_19, Kalnoky_20, Sabia_19, Jobu08_19, Liliith_19, Spike509_19, Marius_20, Soshari_21, Snickers_19, Reba_20
- Track 88 : Chiqui_16, BabyJohn_16, MA5_17
- Track 89 : HelDan_17, Isca_17, Kachowdy_17, Giroux_18, Bugatti_17, MK4_17, Marchesa_17, JF4_17, Rockstar_17, Idleandcovert_17, Puppy_18, Phantastic_17, Scout_17, Roimos_17, B1_15, Pistachio_18, Heathen_17, Zarafa_17, Clammy_17, TNguyen7_17, BlueBird_18, BabyRay_17, JF2_17, SaturnRing_17, DropBear_17
- Track 90 : Zetzy_18
- Track 91 : Fred313_17
- Track 92 : Abdiel_17, Baby16_17, Spino_17, Roosevelt_17, Eurydice_17, Kremtemulon_17, Romney_17, Albee_17, Scamp_17, Taquarus_17, Pipcraft_17, Maverick_17, Cocoaberry_17, Houdini22_17, NorthStar_17, Eagle_16, Commander_17, Rosa24_16, Mayonnaise_17, BellusTerra_17, Ulysses_16, SenorClean_17, Chaph_17, JetBlade_17, LHTSCC_18, KFPoly_17, Medusa_17, Sabertooth_17, BangNhom_17, Iceman_18, Obama12_18, Koan_17, Peaches_17, Funston_17, Wizard007_17, Shaka_17, Deano_17, Ohfah_17, LeoAvram_17, Florean_17, MeeZee_17, ICleared_17, Cerulean_18, Polymorphads_17, OKaNui_18, Gadost_17, Lunsford_18, NotAPhaseMom_17, Sultana_17, Phacado_17, Dhanush_17, LittleB_17, HamSlice_16, Bartimeaus_17, Blackmoor_17, Morrow_17, Bruiser_17, Happiness_17, Arturo_16, Eros_17, Burger_16, Clarenza_17, Iracema64_18, SteMason_16, Flux_17, YoSam321_17, Edison31_17, Jaykayelowell_17, Phontbonne_17, Annyong_17, Sparxx_17, TiroTheta9_17, Maxo_17, Pumbaa_17, PeterPeter_17, KekoraPapaka_16, Kyee_17, JoongJeon_17, Melvin_17, Citius_17, LochMonster_17, Koreni_16, Millski_17, Wilbur_17, Eapen_17, Avle17_17, Bombshell_17, Phelipe_17, LittleGuy_17, Mazhar510_17, Topanga_17,

ChampagnePapi_18, Tinybot_16, Alberto7_18, Camperdownii_16,
 Thanksgivukkah_17, Ruin_17, Cintron_17, LappelDuVide_17, Eris_17,
 Broseidon_17, Druantia_17, Lorenzo_17, Holli_17, Kratark_17, TygerBlood_17,
 RockieBear_16, Relief_17, Kingmustik0402_17, CentreCat_17, Kamy_17,
 TinaFeyge_17, Nyxis_17, Nebs_17, Nemo27_17, Lemur_17, Phighter1804_17,
 Wander_17, DirtyDunning_17, SheldonCooper_18, TroyPia_17, Caelakin_17,
 Skipitt_17
 • Track 93 : Noelle_17, Miramae_17, Stasia_18, AvatarAhPeg_18, Stink_18
 • Track 94 : BubbleTrouble_17, Connomayer_17, Palestino_17
 • Track 95 : Huxley_17
 • Track 96 : Backyardigan_17, Badger_17, Xena_17, Datway_17, Wile_17,
 Achebe_17
 • Track 97 : Perplexer_17, Shygu2_17, Bumblebee11_17, Cici_17,
 PetiteSangsue_17, Katalie136_17, Morpher26_17, AbbysRanger_17, Cindaradix_16
 • Track 98 : Mundrea_17
 • Track 99 : Chadwick_15, PetterN_15, Jabiru_14, Naca_14
 • Track 100 : Archetta_14, SydNat_14, Jovo_14, Phlorence_14, AgentM_14,
 PickleBack_14, Lev2_14, Ghoulboy_14, Bluefalcon_13, Zolita_13, Aragog_14
 • Track 101 : ForGetIt_14, Milcery_14, Cuco_14, Twigg_14, Tarynearal_13,
 Dublin_13, HuhtaEnerson15_14, Florence4_15, Midas2_14, Theia_13,
 Prinash11_15, Florence1_14, Swirley_14, MarysWell_13, Coog_14, George_13,
 Discoknowium_14, Bonamassa_14, Conspiracy_14, Micasa_14, LittleCherry_14,
 Tiger_14
 • Track 102 : UnionJack_14, Benedict_14, Airmid_14, ElTiger69_14
 • Track 103 : Scorpio_15
 • Track 104 : BlessJoy_21, Neeharika16_21, DelvinSonDorr_20, Wiks_21,
 Chartreuse_21, Cookiedough_21, Isiphiwo_21, JewelBug_21, CloudWang3_21,
 Pmask_21, Jordennis_21, SmellyB_21, Newrala_21, Dorothea_21, DaVinci_21,
 Yokurt_21, Helmet_21, Candra_21, BABullseye_21, Kipper29_21, Priamo_21,
 WunderPhul_21, Temprado_21, EricB_21, Kazan_21, GreedyLawyer_21,
 VohminGhazi_21, Zulu_21, Lilbunny_21, Hoot_21, Polyphemus_21, BennyP_21,
 SuperAwesome_21, Zaka_21, ToneTone_19, McFly_21, Garak_22
 • Track 105 : SuperCallie99_21, Koko_21, Tucker_21, Hammer_21, Gladiator_21,
 Blue7_21, Rifter_21, Gruunaga_21, Jeffabunny_21
 • Track 106 : Roksolana_21, Artemis2UCLA_21, Indra_21, Hexamo_21
 • Track 107 : Blinn1_21
 • Track 108 : FlyCatcher_21, Toro_20, Sheen_19
 • Track 109 : DroogsArmy_18, Timshel_18
 • Track 110 : HINdeR_17
 • Track 111 : PP_27
 • Track 112 : Dixon_14, Danforth_13, Caitlin_13, Smeadley_14, Expelliarmus_13,
 Phillis_14, NearlyHeadless_14, Saintus_14, Groundhog_13, Stephig9_14, Roary_14,
 Astro_14
 • Track 113 : Beemo_19, Qobbit_19, Tubs_19, Phaeder_19, EdogawaKiddo_17,
 Priya_19, ExplosioNervosa_19, Ugenie5_16, Aliter_19, Scherzo_19, Fayely_19,
 Phonnegut_19, Ayanochan_20, Pioneer_19, EmyBug_19, Eidsmoe_19, Lilleskat_17,
 Myxus_19, Hanray_18, Halex_18, Onglai_18, HortumSL17_19, Conquerage_19,
 Alma_19, Catalina_19, Jiawan_18, Spouty_19, Sachima_17, RyeScarlet_20,
 PackMan_19
 • Track 114 : Keziacharles14_17
 • Track 115 : Arissanae_17
 • Track 116 : DreamTeam1_18, Klodlith_18, Charm_18

- Track 117 : CogOmlette_16, Rahalelujah_17, Minispark_16, WorldCup_16, Bellris_16
- Track 118 : Celestiallunch_18, MegTheThird_17
- Track 119 : LoneWolf_19
- Track 120 : Vanisoa_17
- Track 121 : Yecey3_18
- Track 122 : Maminiaina_19, BogosyJay_19
- Track 123 : SheaKeira_18
- Track 124 : Darrell_20
- Track 125 : Toaka_17
- Track 126 : Elephantoon_19
- Track 127 : Hillester_10, MidnightRain_10, BlueShadow_10, RadFad_10
- Track 128 : SonDevVon_9, Aikyam_10, SpicyFrank_10, YoungHarleezy_10, MaterMagnus_10, Phrank15_9, Sakai_10, Gorpy_10, BenchScraper_10, Richie_10
- Track 129 : JellyBread_10, CookieBear_10, Windest_11, AdaS_10, Raphaella_10, Auxilium_10
- Track 130 : MUWow_9
- Track 131 : BillyTP_10
- Track 132 : NewKitty_11
- Track 133 : Lawnathon_10, Mapleville_10
- Track 134 : Persistence_9
- Track 135 : BasketStar_10, Vopal_11
- Track 136 : Globfish_10
- Track 137 : Sashimi_11
- Track 138 : DarwinJr_13, Anekin_9, Crescenzo_10
- Track 139 : Hestia_10
- Track 140 : Kabloowy_10
- Track 141 : GumGum_10
- Track 142 : Bhageatrice_12
- Track 143 : Faja_10, EvePickles_10
- Track 144 : Seahorse_11
- Track 145 : MurphyJoseph_10
- Track 146 : CosmicBrownie_9
- Track 147 : Satrap_10, Shukran_10
- Track 148 : Nyilah_9, Tiff81_11
- Track 149 : Ding_10
- Track 150 : ThayneTheZag_10
- Track 151 : Lasker_10
- Track 152 : Isolde_11
- Track 153 : LeBruni_11
- Track 154 : Sporco_11
- Track 155 : Espica_14, UhSalsa_14, Natosaleda_14, Gollum_14, RER2_7, Naiad_14, Belenaria_14, Phrankenstein_14, CosmicSans_14, TWAMP_14, Swann_14, Alatin_14, StCroix_14, Bradshaw_14, Lillie_14, Erik_14, RexFury_14, Nancinator_14, Rhodalysa_14
- Track 156 : Krishelle_14, Hiro_14, Harlequin_14, PhailMary_13, AppleCloud_12, Jester_14
- Track 157 : RGL3_7
- Track 158 : Bryce_14, Rasputin_14
- Track 159 : Yoncess_14, Dinger_14, AngryOrchard_13, Takoda_14, BobbyDazzler_14, Partridge_14, Shuman_14
- Track 160 : Alpacados_13, Bonanza_14, Yogi_14
- Track 161 : Hum25_8

- Track 162 : Tailonex_15

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

The start number called the most often in the published annotations is 9, it was called in 597 of the 652 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_18, 40AC_21, ACFishhook_19, AN3_18, AN9_21, ANI8_21, AbbyPaige_20, AbbysRanger_17, Abdiel_17, Achebe_17, Acolyte_18, AdaS_10, Adzzy_19, Agape74_20, Aglet_19, AgronaGT15_19, Aikyam_10, Alatin_14, Albee_17, Alberto7_18, Aliter_19, Alma_19, Alpacados_13, Anaysia_20, Aneem_18, Anekin_9, AngryOrchard_13, AnnaL29_21, Annyong_17, Anon_18, Anselm_18, Anthony_17, Anubis_21, AppleCloud_12, ArcherNM_20, Arissanae_17, Artemis2UCLA_21, Arturo_16, AugsMagnumOpus_21, Auxilium_10, AvatarAhPeg_18, Avle17_17, Ayanochan_20, B1_15, BABullseye_21, Baby16_17, BabyBack_20, BabyJohn_16, BabyRay_17, Bachome_18, Backyardigan_17, Bactobuster_19, Badger_17, Baehexic_19, BangNhom_17, Bartimeaus_17, Battleship_21, Beauxregard13_19, Beemo_19, Belenaria_14, Bellris_16, BellusTerra_17, BenchScraper_10, BengiVuitton_19, BennyP_21, Benvolio_18, Bhageatrice_12, BiancaTri92_20, Bigflo_19, BillyTP_10, Blackmoor_17, BlessJoy_21, Blinn1_21, Blue7_21, BlueBird_18, BlueShadow_10, BobSwaget_21, BobbyDazzler_14, BogosyJay_19, Bombshell_17, Bonanza_14, Boohoo_20, Bowtie_18, Bradman_17, Bradshaw_14, BreSam8_19, Broseidon_17, Bruiser_17, Bryce_14, BubbleTrouble_17, Bud_18, Bugatti_17, Buggy_20, Bumblebee11_17, Burger_16, BuzzBuzz_18, Bxz2_19, C3_16, CRB1_18, Caelakin_17, Calvinny_20, Camperdownii_16, Candra_21, Caraxes_17, Catalina_19, Caviar_18, Celestiallunch_18, Centaur_20, CentreCat_17, Cerulean_18, ChampagnePapi_18, Changeling_21, Chaph_17, Chargerpower_18, Charm_18, Chartreuse_21, Che12_20, ChipMunk_20, Chiqui_16, Chupacabra_17, Cici_17, Cindaradix_16, Cintron_17, Citius_17, Clammy_17, Clarenza_17, CloudWang3_21, ClownCar_20, Cocoaberry_17, CogOmlette_16, Colbster_19, Colin_22, Commander_17, Connomayer_17, Conquerage_19, CookieBear_10, Cookiedough_21, CosmicBrownie_9, CosmicSans_14, Crescenzo_10, Croquant_20, Crucio_18, Cullens_19, D29_19, D32_21, DBQu4n_21, DaHudson_19, DaVinci_21, Daishi_18, Dalmatian_18, Darrell_20, DarthPhader_19, DarwinJr_13, Datway_17, Deano_17, DeerParkTS_19, DekHockey33_20, Deloris_19, DelvinSonDorr_20, Dhanush_17, Dieselweasel_19, Dignity_20, Ding_10, Dinger_14, DirtyDunning_17, DontArgue_16, Dorothea_21, Drake55_20, Drake94_16, DreamTeam1_18, DroogsArmy_18, DropBear_17, Druantia_17, DudeLittle_18, Duplo_21, DustyMartin_20, EZMoney23_22, EagleEye_20, Eagle_16, Eaglepride_18, Eapen_17, Ebony_18, Echild_18, Edison31_17, EdogawaKiddo_17, Eidsmoe_19, Elephantoon_19, Elle_18, EmyBug_19, EpicPhail_19, Epsocamisio_20, Equemioh13_20, EricB_21, Erik_14, Eris_17, Eros_17, Espica_14, Et2Brutus_17, EtoileNova_18, Eurydice_17, EvePickles_10, EvilGenius_20, ExplosioNervosa_19, Faja_10, Fameo_18, Farber_19, FatCactus_16, Fayely_19, Fernando_19, Fibonacci_18, FiringLine_18, First_0018, Flare16_18, Flaverint_18, Florean_17, Flux_17, FlyCatcher_21, ForesterFrank_19, Fred313_17, Funston_17, Gadost_17, Gail_17, Garak_22, GaugeLDP_20, Gemma_19, Georgie2_19, Gilberta_18, GingkoMaracino_19, Giroux_18, Gladiator_21, Globfish_10, Gollum_14, Goose_17, Gorpy_10, Gratitude_19, GreedyLawyer_21, Grif_19, Groupthink_20, Grub_19,

Grum1_19, Gruunaga_21, GtownJaz_19, GumGum_10, Gwennie_18, HINdeR_17, HamSlice_16, Hammer_21, Hanray_18, Happiness_17, Harlequin_14, HarryHoudini_20, HashRod_20, HaveUMetTed_20, Heathen_17, Heffalump_20, HelDan_17, Heliosoles_19, Helmet_21, Herbertwm_15, Hercules11_19, Hestia_10, Hexamo_21, Hillester_10, HippoHollow_19, Hiro_14, Horex_18, Holli_17, Hookmount_18, Hoot_21, HortumSL17_19, Houdini22_17, Hum25_8, Hutc2_18, Huxley_17, ICleared_17, Iceman_18, Idleandcovert_17, Indra_21, Insomnia_18, Iracema64_18, IronMan_20, Isca_17, Isiphiwo_21, Isolde_11, Iwokeuplikedis_19, JF2_17, JF4_17, JHC117_19, JSwag_20, Jaan_21, Jabith_18, Jaykayelowell_17, Jeeves_17, Jeffabunny_21, JellyBread_10, JenCasNa_19, JeppNRM_20, Jerm_20, Jester_14, JetBlade_17, JewelBug_21, Jiawan_18, Jobu08_19, JoongJeon_17, Jordennis_21, Joselito_18, JoshKayV_20, Journey13_16, Jsquared_17, KADY_20, KFPoly_17, Kabloowy_10, Kachowdy_17, Kalb97_20, Kalnoky_20, Kalpine_21, Kamy_17, Katalie136_17, KatherineG_20, Kazan_21, KekoraPapaka_16, Kerberos_21, Keziacharles14_17, Kimba_18, Kimona_14, KingCyrus_20, Kingmustik0402_17, Kinmap_17, Kipper29_21, KittenMittens_16, Klodlith_18, Koan_17, Koduck_18, Koko_21, Koreni_16, Kratark_17, Kremtemulon_17, Krishelle_14, Kristoff_18, Kyee_17, L5_19, LBerry_19, LHTSCC_18, LadyBird_18, Lambert1_18, Landor_19, LappelDuVide_17, Larenn_19, LarryKay_19, Lasker_10, LastResort_20, Lawnathon_10, LeBruni_11, Lemur_17, LeoAvram_17, Leogania_20, Leviathan_20, LilTurb_20, Lilbunny_21, Lilith_19, Lilleskat_17, Lillie_14, LionsBait_19, LittleB_17, LittleGuy_17, LochMonster_17, Lokk_21, LoneWolf_19, Looper_21, Lorenzo_17, Loser_21, Louie6_19, Lowa_19, Luchador_19, Lucivia_18, Lucyedi_19, LugYA_21, Lunsford_18, MA5_17, MK4_17, MUWow_9, MaCh_18, Mabel_18, MadMarie_19, Mainiac_19, MajorMajor_17, Malec_19, Malinsilva_21, Maminiaina_19, Manu_20, Mapleville_10, MarQuardt_19, Marchesa_17, Margo_18, Marie_19, Marius_20, MaterMagnus_10, Maverick_17, Maxo_17, Mayonnaise_17, Mazhar510_17, McFly_21, Medusa_17, MeeZee_17, MegTheThird_17, Melvin_17, Methuselah_19, Microwolf_19, MiculUcigas_18, MidnightRain_10, Miko_21, Millski_17, MinecraftSteve_21, Minispark_16, Miramae_17, Misomonster_21, MissWhite_18, MoneyMay_19, Montavir_18, Morpher26_17, Morrow_17, MuchMore_21, Mulciber_18, Munch_18, Mundrea_17, MurphyJoseph_10, MyraDee_15, Myxus_19, NaSiaTalie_18, Naiad_14, Naji_21, Nancinator_14, Natosaleda_14, Nebs_17, Nebulosus_20, Nedarya_19, Neeharika16_21, Nemo27_17, Newrala_21, NicoleTera_22, Noella_18, Noelle_17, Norbert_17, NorthStar_17, NotAPhaseMom_17, NothingSpecial_20, Nyilah_9, Nyxis_17, OKCentral2016_17, OKaNui_18, Obama12_18, Odin_17, Ohfah_17, OlanP_19, Ollie_19, Onglai_18, Oofda_20, Orange_18, P28Green_19, PGHhamlin_21, PP_27, PackMan_19, PainterBoy_19, Palestino_17, Panamaxus_18, Partridge_14, Pawn_19, PeaceMeal1_16, Peaches_17, Pembroke_19, Penny1_19, Perplexer_17, Persistence_9, PeterPeter_17, Petersenfast_17, PetiteSangsue_17, Ph8s_19, Phacado_17, Phaded_21, Phaeder_19, PhailMary_13, Phantastic_17, Pharaoh_18, Felipe_17, Phighter1804_17, PhishRPhriends_18, Phlei_13, Phoebe_19, Phonnegut_19, Phontbonne_17, Phoxy_19, Phrank15_9, Phrankenstein_14, Phranny_20, Pioneer_19, Pipcraft_17, Piro94_19, Pistachio_18, Pmask_21, Pocahontas_18, Polymorphads_17, Polyphemus_21, Pomar16_21, Poompha_16, Popcicle_18, PotatoSplit_20, Power_18, Priamo_21, Priya_19, Prudy_20, Pukovnik_20, Pumbaa_17, Puppy_18, PurpleHaze_19, Qobbit_19, QueenB2_18, QueenBeesly_18, QuinnKiro_17, Quokka_16, RER2_7, RGL3_7, Rachaly_21, RadFad_10, Rahalelujah_17, Raphaella_10, Rasputin_14, Ravana_21, ReMo_20, Reba_20, Rebeuca_18, RedRock_21, Refuge_21, Relief_17, Remus_20, ResDef_18, Retro23_18, RexFury_14, Rhodalysa_14, RhynO_18, Richie_10, Rifter_21, RockieBear_16, Rockstar_17, Roimos_17, Roksolana_21, Romney_17,

Roosevelt_17, Rosa24_16, Rosalind_20, Rowdy_20, Ruin_17, Rummer_19, RyeScarlet_20, Sabertooth_17, Sabia_19, Sabinator_19, Sachima_17, Sakai_10, Salz_18, Sashimi_11, Saskia_17, Satrap_10, SaturnRing_17, Scamp_17, Scherzo_19, Scout_17, Seahorse_11, SemperFi_20, SenorClean_17, Serenity_17, Severus_16, Shaka_17, Sham4_18, Shapes_20, ShayRa_21, SheaKeira_18, Sheen_19, SheldonCooper_18, Shukran_10, Shuman_14, Shygu2_17, Skipitt_17, Sknot_18, Smeagan_20, SmellyB_21, SnapTap_18, Snape_18, Snickers_19, SoYo_19, SoilDragon_19, SonDevVon_9, Soshari_21, Soups_20, Sparxx_17, SpicyFrank_10, Spike509_19, Spino_17, Sporco_11, Spouty_19, StCroix_14, Stagni_19, StarStuff_21, Stasia_18, SteMason_16, Steamy_19, StepMih_19, Stink_18, Strosahl_20, Sultana_17, Sunhee_16, SuperAwesome_21, SuperCallie99_21, Superchunk_17, Swann_14, SweetiePie_18, SwirlSquare_20, Switzerland_20, TNguyen7_17, TWAMP_14, Tailonex_15, Takoda_14, Taquarus_17, TarsusIV_18, Taurus_19, Temprado_21, Terrific_22, Texage_17, Thanksgivukkah_17, ThayneTheZag_10, Tiff81_11, Tiffany_19, Timothy_18, Timshe1_18, TinaFeyge_17, TinyPebbles_19, TinyTimmy_18, Tinybot_16, TipsytheTRex_17, TiroTheta9_17, Toaka_17, Todacoro_18, Tomathan_21, ToneTone_19, Topanga_17, Toro_20, Travvers_21, Trike_15, Tristan_19, Trixie_21, Trooper_18, TroyPia_17, Tubs_19, Tucker_21, Turbido_20, Twister_17, TygerBlood_17, Ugenie5_16, UhSalsa_14, Ulysses_16, Updawg_20, VA6_18, VC3_21, Vanisoa_17, Veracruz_17, Vix_19, VohminGhazi_21, Waits_20, WalterMcMickey_17, Wander_17, Warrior24_20, Watson_19, WeiHuaDA_24, Whabigail7_20, WideWale_20, Wiks_21, Wilbur_17, Wile_17, Windest_11, Wizard007_17, Wolpertinger_17, Wooldri_21, WorldCup_16, WunderPhul_21, Xena_17, XianYue_18, Yecey3_18, YoSam321_17, Yogi_14, Yokurt_21, Yoncess_14, YoungHarleezy_10, Zaka_21, Zarafa_17, Zetzy_18, Zimmer_20, Zulu_21,

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

- BasketStar_10, NewKitty_11, Vopal_11,

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

- AgentM_14, Airmid_14, Aragog_14, Archetta_14, Astro_14, Benedict_14, BillKnuckles_17, Bluefalcon_13, Bonamassa_14, Bxb1_15, Caitlin_13, Chadwick_15, Conspiracy_14, Coog_14, Cuco_14, Danforth_13, Discoknowium_14, Dixon_14, Dublin_13, ElTiger69_14, Expelliarmus_13, Florence1_14, Florence4_15, ForGetIt_14, George_13, Ghouboy_14, Groundhog_13, HuhtaEnerson15_14, Jabiru_14, Jovo_14, Kugel_17, Kykar_14, Lev2_14, LittleCherry_14, MarysWell_13, Micasa_14, Midas2_14, Milcery_14, Naca_14, NearlyHeadless_14, PetterN_15, Phillis_14, Phlorence_14, PickleBack_14, Prinash11_15, Roary_14, Saintus_14, Scorpia_15, Smeadley_14, SororFago_17, Stepfig9_14, Swirley_14, SydNat_14, Target_18, Tarynearal_13, Theia_13, Tiger_14, Twigg_14, UnionJack_14, Whitspit_17, Zolita_13,

Summary by start number:

Start 4:

- Found in 6 of 760 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 652
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Kugel_17 (A1),

Start 7:

- Found in 7 of 760 (0.9%) of genes in pham
- Manual Annotations of this start: 5 of 652
- Called 85.7% of time when present
- Phage (with cluster) where this start called: BillKnuckles_17 (A1), Bxb1_15 (A1), Kykar_14 (A1), SororFago_17 (A14), Target_18 (A1), Whitspit_17 (A1),

Start 8:

- Found in 54 of 760 (7.1%) of genes in pham
- Manual Annotations of this start: 49 of 652
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_14 (A5), Airmid_14 (A5), Aragog_14 (A5), Archetta_14 (A5), Astro_14 (A8), Benedict_14 (A5), Bluefalcon_13 (A5), Bonamassa_14 (A5), Caitlin_13 (A8), Chadwick_15 (A5), Conspiracy_14 (A5), Coog_14 (A5), Cuco_14 (A5), Danforth_13 (A8), Discoknowium_14 (A5), Dixon_14 (A8), Dublin_13 (A5), ElTiger69_14 (A5), Expelliarmus_13 (A8), Florence1_14 (A5), Florence4_15 (A5), ForGetIt_14 (A5), George_13 (A5), Ghouboy_14 (A5), Groundhog_13 (A8), HuhtaEnerson15_14 (A5), Jabiru_14 (A5), Jovo_14 (A5), Lev2_14 (A5), LittleCherry_14 (A5), MarysWell_13 (A5), Micasa_14 (A5), Midas2_14 (A5), Milcery_14 (A5), Naca_14 (A5), NearlyHeadless_14 (A8), PetterN_15 (A5), Phillis_14 (A8), Phlorence_14 (A5), PickleBack_14 (A5), Prinasha11_15 (A5), Roary_14 (A8), Saintus_14 (A8), Scorpio_15 (A5), Smeadley_14 (A8), Stephig9_14 (A8), Swirley_14 (A5), SydNat_14 (A5), Tarynearal_13 (A5), Theia_13 (A5), Tiger_14 (A5), Twigg_14 (A5), UnionJack_14 (A5), Zolita_13 (A5),

Start 9:

- Found in 699 of 760 (92.0%) of genes in pham
- Manual Annotations of this start: 597 of 652
- Called 99.6% of time when present
- Phage (with cluster) where this start called: 20ES_18 (A2), 40AC_21 (A17), ACFishhook_19 (A3), AN3_18 (A2), AN9_21 (A2), AN18_21 (A2), AbbyPaige_20 (A2), AbbysRanger_17 (A4), Abdiel_17 (A4), Achebe_17 (A4), Acolyte_18 (A2), AdaS_10 (AY), Adzzy_19 (A2), Agape74_20 (A2), Aglet_19 (A3), AgronaGT15_19 (A3), Aikyam_10 (AY), Alatin_14 (CA), Albee_17 (A4), Alberto7_18 (A4), Aliter_19 (A9), Alma_19 (A9), Alpacos_13 (CA), Anaysia_20 (A15), Aneem_18 (A11), Anekin_9 (AY), AngryOrchard_13 (CA), AnnaL29_21 (A2), Annyong_17 (A4), Anon_18 (A15), Anselm_18 (A2), Anthony_17 (A20), Anubis_21 (A3), AppleCloud_12 (CA), ArcherNM_20 (A2), Arissanae_17 (A9), Artemis2UCLA_21 (A6), Arturo_16 (A4), AugsMagnumOpus_21 (A3), Auxilium_10 (AY), AvatarAhPeg_18 (A4), Avle17_17 (A4), Ayanochan_20 (A9), B1_15 (A3), BABullseye_21 (A6), Baby16_17 (A4), BabyBack_20 (A2), BabyJohn_16 (A3), BabyRay_17 (A3), Bachome_18 (A11), Backyardigan_17 (A4), Bactobuster_19 (A2), Badger_17 (A4), Baehexic_19 (A2), BangNhom_17 (A4), Bartimeaus_17 (A4), Battleship_21 (A15), Beauxregard13_19 (A3), Beemo_19 (A9), Belenaria_14 (CA), Bellris_16 (A9), BellusTerra_17 (A4), BenchScraper_10 (AY), BengiVuitton_19 (A2), BennyP_21 (A6), Benvolio_18 (A2), Bhageatrice_12 (AY), BiancaTri92_20 (A2), Bigflo_19 (A3), BillyTP_10 (AY), Blackmoor_17 (A4), BlessJoy_21 (A6), Blinn1_21 (A6), Blue7_21 (A6), BlueBird_18 (A3), BlueShadow_10 (AY), BobSwaget_21 (A2), BobbyDazzler_14 (CA), BogosyJay_19 (A9), Bombshell_17 (A4), Bonanza_14 (CA), Boohoo_20 (A15), Bowtie_18 (A11), Bradman_17 (A2), Bradshaw_14 (CA), BreSam8_19 (A3), Broseidon_17 (A4), Bruiser_17 (A4), Bryce_14 (CA), BubbleTrouble_17 (A4), Bud_18 (A11), Bugatti_17 (A3), Buggy_20 (A2), Bumblebee11_17 (A4), Burger_16 (A4), BuzzBuzz_18 (A3), Bxz2_19 (A3), C3_16 (A2), CRB1_18 (A2), Caelakin_17 (A4), Calvinny_20 (A3), Camperdownii_16 (A4), Candra_21 (A6), Caraxes_17 (A2),

Catalina_19 (A9), Caviar_18 (A3), Celestiallunch_18 (A9), Centaur_20 (A2), CentreCat_17 (A4), Cerulean_18 (A4), ChampagnePapi_18 (A4), Changeling_21 (A2), Chaph_17 (A4), Chargerpower_18 (A22), Charm_18 (A9), Chartreuse_21 (A6), Che12_20 (A2), ChipMunk_20 (A2), Chiqui_16 (A3), Chupacabra_17 (A10), Cici_17 (A4), Cindaradix_16 (A4), Cintron_17 (A4), Citius_17 (A4), Clammy_17 (A3), Clarenza_17 (A4), CloudWang3_21 (A6), ClownCar_20 (A3), Cocoaberry_17 (A4), CogOmlette_16 (A9), Colbster_19 (A3), Colin_22 (A2), Commander_17 (A4), Connomayer_17 (A4), Conquerage_19 (A9), CookieBear_10 (AY), Cookiedough_21 (A6), CosmicBrownie_9 (AY), CosmicSans_14 (CA), Crescenzo_10 (AY), Croquant_20 (A3), Crucio_18 (A2), Cullens_19 (A3), D29_19 (A2), D32_21 (A2), DBQu4n_21 (A2), DaHudson_19 (A3), DaVinci_21 (A6), Daishi_18 (A3), Dalmatian_18 (A2), Darrell_20 (A9), DarthPhader_19 (A12), DarwinJr_13 (AY), Datway_17 (A4), Deano_17 (A4), DeerParkTS_19 (A2), DekHockey33_20 (A15), Deloris_19 (A2), DelvinSonDorr_20 (A6), Dhanush_17 (A4), Dieselweasel_19 (A3), Dignity_20 (A2), Ding_10 (AY), Dinger_14 (CA), DirtyDunning_17 (A4), DontArgue_16 (A10), Dorothea_21 (A6), Drake55_20 (A2), Drake94_16 (A10), DreamTeam1_18 (A9), DroogsArmy_18 (A7), DropBear_17 (A3), Druantia_17 (A4), DudeLittle_18 (A2), Duplo_21 (A2), DustyMartin_20 (A10), EZMoney23_22 (A2), EagleEye_20 (A16), Eagle_16 (A4), Eaglepride_18 (A10), Eapen_17 (A4), Ebony_18 (A11), Echild_18 (A2), Edison31_17 (A10), EdogawaKiddo_17 (A9), Eidsmoe_19 (A9), Elephantoon_19 (A9), Elle_18 (A15), EmyBug_19 (A9), EpicPhail_19 (A3), Epsocamisio_20 (A15), Equemioh13_20 (A2), EricB_21 (A6), Erik_14 (CA), Eris_17 (A4), Eros_17 (A4), Espica_14 (CA), Et2Brutus_17 (A11), EtoileNova_18 (A3), Eurydice_17 (A4), EvePickles_10 (AY), EvilGenius_20 (A2), ExplosioNervosa_19 (A9), Faja_10 (AY), Fameo_18 (A2), Farber_19 (A3), FatCactus_16 (A20), Fayely_19 (A9), Fernando_19 (A3), Fibonacci_18 (A11), FiringLine_18 (A2), First_0018 (A2), Flare16_18 (A2), Flaverint_18 (A11), Florean_17 (A4), Flux_17 (A4), FlyCatcher_21 (A7), ForesterFrank_19 (A2), Fred313_17 (A3), Funston_17 (A4), Gadost_17 (A4), Gail_17 (A14), Garak_22 (A6), GaugeLDP_20 (A2), Gemma_19 (A3), Georgie2_19 (A2), Gilberta_18 (A11), GingkoMaracino_19 (A3), Giroux_18 (A3), Gladiator_21 (A6), Globfish_10 (AY), Gollum_14 (CA), Goose_17 (A10), Gorpy_10 (AY), Gratitude_19 (A2), GreedyLawyer_21 (A6), Grif_19 (A3), Groupthink_20 (A3), Grub_19 (A3), Grum1_19 (A3), Gruunaga_21 (A6), GtownJaz_19 (A3), GumGum_10 (AY), Gwennie_18 (A3), HINdeR_17 (A7), HamSlice_16 (A4), Hammer_21 (A6), Hanray_18 (A9), Happiness_17 (A4), Harlequin_14 (CA), HarryHoudini_20 (A2), HashRod_20 (A3), HaveUMetTed_20 (A3), Heathen_17 (A3), Heffalump_20 (A2), HelDan_17 (A3), Heliosoles_19 (A3), Helmet_21 (A6), Herbertwm_15 (A2), Hercules11_19 (A3), Hestia_10 (AY), Hexamo_21 (A6), Hillester_10 (AY), HippoHollow_19 (A2), Hiro_14 (CA), Horex_18 (A9), Holli_17 (A4), Hookmount_18 (A3), Hoot_21 (A6), HortumSL17_19 (A9), Houdini22_17 (A4), Hum25_8 (FQ), Hutc2_18 (A11), Huxley_17 (A4), ICleared_17 (A4), Iceman_18 (A4), Idleandcovert_17 (A3), Indra_21 (A6), Insomnia_18 (A11), Iracema64_18 (A4), IronMan_20 (A2), Isca_17 (A3), Isiphiwo_21 (A6), Isolde_11 (AY), Iwokeupliikedis_19 (A2), JF2_17 (A3), JF4_17 (A3), JHC117_19 (A3), JSwag_20 (A15), Jaan_21 (A2), Jabith_18 (A11), Jaykayelowell_17 (A4), Jeeves_17 (A14), Jeffabunny_21 (A6), JellyBread_10 (AY), JenCasNa_19 (A3), JeppNRM_20 (A3), Jerm_20 (A2), Jester_14 (CA), JetBlade_17 (A4), JewelBug_21 (A6), Jiawan_18 (A9), Jobu08_19 (A3), JoongJeon_17 (A4), Jordennis_21 (A6), Joselito_18 (A11), JoshKayV_20 (A2), Journey13_16 (A2), Jsquared_17 (A2), KADY_20 (A3), KFPoly_17 (A4), Kabloowy_10 (AY), Kachowdy_17 (A3), Kalb97_20 (A3), Kalnoky_20 (A3), Kalpine_21 (A2), Kampy_17 (A4), Katalie136_17 (A4), KatherineG_20 (A15), Kazan_21 (A6), KekoraPapaka_16 (A4), Kerberos_21 (A2), Keziacharles14_17 (A9), Kimba_18 (A11), Kimona_14 (A19), KingCyrus_20 (A2), Kingmustik0402_17 (A4), Kinmap_17 (A21), Kipper29_21 (A6), KittenMittens_16

(A10), Klodlith_18 (A9), Koan_17 (A4), Koduck_18 (A2), Koko_21 (A6), Koreni_16 (A4), Kratak_17 (A4), Kremtemulon_17 (A4), Krishelle_14 (CA), Kristoff_18 (A10), Kyee_17 (A4), L5_19 (A2), LBerry_19 (A3), LHTSCC_18 (A4), LadyBird_18 (A2), Lambert1_18 (A3), Landor_19 (A2), LappelDuVide_17 (A4), Larenn_19 (A2), LarryKay_19 (A3), Lasker_10 (AY), LastResort_20 (A15), Lawnathon_10 (AY), LeBruni_11 (AY), Lemur_17 (A4), LeoAvram_17 (A4), Leogania_20 (A2), Leviathan_20 (A2), LilTurb_20 (A2), Lilbunny_21 (A6), Lilith_19 (A3), Lilleskat_17 (A9), Lillie_14 (CA), LionsBait_19 (A2), LittleB_17 (A4), LittleGuy_17 (A4), LochMonster_17 (A4), Lokk_21 (A2), LoneWolf_19 (A9), Looper_21 (A15), Lorenzo_17 (A4), Loser_21 (A2), Louie6_19 (A3), Lowa_19 (A3), Luchador_19 (A14), Lucivia_18 (A11), Lucyedi_19 (A16), LugYA_21 (A3), Lunsford_18 (A4), MA5_17 (A3), MK4_17 (A3), MUWow_9 (AY), MaCh_18 (A11), Mabel_18 (A11), MadMarie_19 (A3), Mainiac_19 (A3), MajorMajor_17 (A2), Malec_19 (A2), Malinsilva_21 (A3), Maminiaina_19 (A9), Manu_20 (A3), Mapleville_10 (AY), MarQuardt_19 (A3), Marchesa_17 (A3), Margo_18 (A3), Marie_19 (A3), Marius_20 (A3), MaterMagnus_10 (AY), Maverick_17 (A4), Maxo_17 (A4), Mayonnaise_17 (A4), Mazhar510_17 (A4), McFly_21 (A6), Medusa_17 (A4), MeeZee_17 (A4), MegTheThird_17 (A9), Melvin_17 (A4), Methuselah_19 (A3), Microwolf_19 (A3), MiculUcigas_18 (A2), MidnightRain_10 (AY), Miko_21 (A2), Millski_17 (A4), MinecraftSteve_21 (A15), Minispark_16 (A9), Miramae_17 (A4), Misomonster_21 (A3), MissWhite_18 (A2), MoneyMay_19 (A3), Montavir_18 (A3), Morpher26_17 (A4), Morrow_17 (A4), MuchMore_21 (A3), Mulciber_18 (A11), Munch_18 (A11), Mundrea_17 (A4), MurphyJoseph_10 (AY), MyraDee_15 (A18), Myxus_19 (A9), NaSiaTalie_18 (A2), Naiad_14 (CA), Naji_21 (A2), Nancinator_14 (CA), Natosaleda_14 (CA), Nebs_17 (A4), Nebulosus_20 (A15), Nedarya_19 (A15), Neeharika16_21 (A6), Nemo27_17 (A4), Newrala_21 (A6), NicoleTera_22 (A2), Noella_18 (A3), Noelle_17 (A4), Norbert_17 (A3), NorthStar_17 (A4), NotAPhaseMom_17 (A4), NothingSpecial_20 (A2), Nyilah_9 (AY), Nyxis_17 (A4), OKCentral2016_17 (A10), OKaNui_18 (A4), Obama12_18 (A4), Odin_17 (A2), Ohfah_17 (A4), OlanP_19 (A3), Ollie_19 (A3), Onglai_18 (A9), Oofda_20 (A15), Orange_18 (A11), P28Green_19 (A3), PGHhamlin_21 (A3), PP_27 (A7), PackMan_19 (A9), PainterBoy_19 (A16), Palestino_17 (A4), Panamaxus_18 (A3), Partridge_14 (CA), Pawn_19 (A3), PeaceMeal1_16 (A10), Peaches_17 (A4), Pembroke_19 (A3), Penny1_19 (A3), Perplexer_17 (A4), Persistence_9 (AY), PeterPeter_17 (A4), Petersenfast_17 (A11), PetiteSangsue_17 (A4), Ph8s_19 (A2), Phacado_17 (A4), Phaded_21 (A2), Phaeder_19 (A9), PhailMary_13 (CA), Phantastic_17 (A3), Pharaoh_18 (A12), Phelipe_17 (A4), Phighter1804_17 (A4), PhishRPhriends_18 (A3), Phlei_13 (A13), Phoebe_19 (A3), Phonnegut_19 (A9), Phontbonne_17 (A4), Phoxy_19 (A3), Phrank15_9 (AY), Phrankenstein_14 (CA), Phranny_20 (A3), Pioneer_19 (A9), Pipcraft_17 (A4), Piro94_19 (A2), Pistachio_18 (A3), Pmask_21 (A6), Pocahontas_18 (A3), Polymorphads_17 (A4), Polyphemus_21 (A6), Pomar16_21 (A2), Poompha_16 (A10), Popcicle_18 (A3), PotatoSplit_20 (A3), Power_18 (A2), Priamo_21 (A6), Priya_19 (A9), Prudy_20 (A2), Pukovnik_20 (A2), Pumbaa_17 (A4), Puppy_18 (A3), PurpleHaze_19 (A3), Qobbit_19 (A9), QueenB2_18 (A2), QueenBeesly_18 (A2), QuinnKiro_17 (A3), Quokka_16 (A2), RER2_7 (CA), RGL3_7 (CA), Rachaly_21 (A2), RadFad_10 (AY), Rahalelujah_17 (A9), Raphaella_10 (AY), Rasputin_14 (CA), Ravana_21 (A15), ReMo_20 (A15), Reba_20 (A3), Rebeuca_18 (A10), RedRock_21 (A2), Refuge_21 (A12), Relief_17 (A4), Remus_20 (A15), ResDef_18 (A3), Retro23_18 (A2), RexFury_14 (CA), Rhodalysa_14 (CA), RhynO_18 (A10), Richie_10 (AY), Rifter_21 (A6), RockieBear_16 (A4), Rockstar_17 (A3), Roimos_17 (A3), Roksolana_21 (A6), Romney_17 (A4), Roosevelt_17 (A4), Rosa24_16 (A4), Rosalind_20 (A15), Rowdy_20 (A10), Ruin_17 (A4), Rummer_19 (A3), RyeScarlet_20 (A9), Sabertooth_17 (A4), Sabia_19 (A3), Sabinator_19 (A3), Sachima_17 (A9), Sakai_10

(AY), Salz_18 (A11), Sashimi_11 (AY), Saskia_17 (A11), Satrap_10 (AY), SaturnRing_17 (A3), Scamp_17 (A4), Scherzo_19 (A9), Scout_17 (A3), Seahorse_11 (AY), SemperFi_20 (A2), SenorClean_17 (A4), Serenity_17 (A2), Severus_16 (A10), Shaka_17 (A4), Sham4_18 (A11), Shapes_20 (A10), ShayRa_21 (A15), SheaKeira_18 (A9), Sheen_19 (A7), SheldonCooper_18 (A4), Shukran_10 (AY), Shuman_14 (CA), Shygu2_17 (A4), Skipitt_17 (A4), Sknot_18 (A2), Smeagan_20 (A2), SmellyB_21 (A6), SnapTap_18 (A2), Snape_18 (A11), Snickers_19 (A3), SoYo_19 (A3), SoilDragon_19 (A3), SonDevVon_9 (AY), Soshari_21 (A3), Soups_20 (A15), Sparxx_17 (A4), SpicyFrank_10 (AY), Spike509_19 (A3), Spino_17 (A4), Sporco_11 (AY), Spouty_19 (A9), StCroix_14 (CA), Stagni_19 (A3), StarStuff_21 (A2), Stasia_18 (A4), SteMason_16 (A4), Steamy_19 (A12), StepMih_19 (A3), Stink_18 (A4), Strosahl_20 (A15), Sultana_17 (A4), Sunhee_16 (A14), SuperAwesome_21 (A6), SuperCallie99_21 (A6), Superchunk_17 (A2), Swann_14 (CA), SweetiePie_18 (A2), SwirlSquare_20 (A2), Switzerland_20 (A15), TNguyen7_17 (A3), TWAMP_14 (CA), Tailonex_15 (singleton), Takoda_14 (CA), Taquarus_17 (A4), TarsusIV_18 (A2), Taurus_19 (A3), Temprado_21 (A6), Terrific_22 (A2), Texage_17 (A3), Thanksgivukkah_17 (A4), ThayneTheZag_10 (AY), Tiff81_11 (AY), Tiffany_19 (A3), Timothy_18 (A11), Timshel_18 (A7), TinaFeyge_17 (A4), TinyPebbles_19 (A3), TinyTimmy_18 (A11), Tinybot_16 (A4), TipsytheTRex_17 (A2), TiroTheta9_17 (A4), Toaka_17 (A9), Todacoro_18 (A3), Tomathan_21 (A2), ToneTone_19 (A6), Topanga_17 (A10), Toro_20 (A7), Travvers_21 (A2), Trike_15 (A10), Tristan_19 (A2), Trixie_21 (A2), Trooper_18 (A2), TroyPia_17 (A4), Tubs_19 (A9), Tucker_21 (A6), Turbido_20 (A2), Twister_17 (A10), TygerBlood_17 (A4), Ugenie5_16 (A9), UhSalsa_14 (CA), Ulysses_16 (A4), Updawg_20 (A2), VA6_18 (A2), VC3_21 (A2), Vanisoa_17 (A9), Veracruz_17 (A3), Vix_19 (A3), VohminGhazi_21 (A6), Waits_20 (A15), WalterMcMickey_17 (A10), Wander_17 (A4), Warrior24_20 (A15), Watson_19 (A3), WeiHuaDA_24 (A2), Whabigail7_20 (A2), WideWale_20 (A2), Wiks_21 (A6), Wilbur_17 (A4), Wile_17 (A4), Windest_11 (AY), Wizard007_17 (A4), Wolpertinger_17 (A11), Wooldri_21 (A3), WorldCup_16 (A9), WunderPhul_21 (A6), Xena_17 (A4), XianYue_18 (A2), Yecy3_18 (A9), YoSam321_17 (A4), Yogi_14 (CA), Yokurt_21 (A6), Yoncess_14 (CA), YoungHarleezy_10 (AY), Zaka_21 (A6), Zarafa_17 (A3), Zetzy_18 (A3), Zimmer_20 (A12), Zulu_21 (A6),

Start 20:

- Found in 40 of 760 (5.3%) of genes in pham
- No Manual Annotations of this start.
- Called 7.5% of time when present
- Phage (with cluster) where this start called: BasketStar_10 (AY), NewKitty_11 (AY), Vopal_11 (AY),

Summary by clusters:

There are 26 clusters represented in this pham: FQ, singleton, A15, A14, A17, A16, A11, A10, A13, A12, A19, A18, A1, A3, A2, A5, A4, A7, A6, A9, A8, CA, AY, A20, A21, A22,

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 1 time for cluster A1.
- Start number 7 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster A10:

- Start number 9 was manually annotated 17 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 9 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 9 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 7 was manually annotated 1 time for cluster A14.
- Start number 9 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A15:

- Start number 9 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A16:

- Start number 9 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 9 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 9 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 9 was manually annotated 104 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 9 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 9 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:

- Start number 9 was manually annotated 116 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 9 was manually annotated 141 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 8 was manually annotated 38 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 9 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 9 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A8:

- Start number 8 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster A9:

- Start number 9 was manually annotated 35 times for cluster A9.

Info for manual annotations of cluster AY:

- Start number 9 was manually annotated 33 times for cluster AY.

Info for manual annotations of cluster CA:

- Start number 9 was manually annotated 36 times for cluster CA.

Info for manual annotations of cluster FQ:

- Start number 9 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: 20ES_18 Start: 13386, Stop: 13763, Start Num: 9

Candidate Starts for 20ES_18:

(Start: 9 @13386 has 597 MA's), (15, 13416), (16, 13419), (18, 13449), (25, 13488), (46, 13590), (66, 13725), (74, 13749), (75, 13752),

Gene: 40AC_21 Start: 15412, Stop: 15789, Start Num: 9

Candidate Starts for 40AC_21:

(Start: 9 @15412 has 597 MA's), (14, 15439), (18, 15475), (25, 15514), (46, 15616), (48, 15637), (73, 15772), (74, 15775), (75, 15778),

Gene: ACFishhook_19 Start: 12951, Stop: 13322, Start Num: 9

Candidate Starts for ACFishhook_19:

(Start: 9 @12951 has 597 MA's), (13, 12975), (22, 13035), (25, 13053), (52, 13203), (66, 13284), (67, 13290), (74, 13308), (75, 13311),

Gene: AN3_18 Start: 13376, Stop: 13753, Start Num: 9

Candidate Starts for AN3_18:

(Start: 9 @13376 has 597 MA's), (15, 13406), (16, 13409), (18, 13439), (25, 13478), (66, 13715), (74, 13739), (75, 13742),

Gene: AN9_21 Start: 13381, Stop: 13758, Start Num: 9

Candidate Starts for AN9_21:

(Start: 9 @13381 has 597 MA's), (14, 13408), (16, 13414), (18, 13444), (25, 13483), (35, 13540), (46, 13585), (56, 13666), (66, 13720), (73, 13741), (74, 13744), (75, 13747),

Gene: ANI8_21 Start: 13381, Stop: 13758, Start Num: 9

Candidate Starts for ANI8_21:

(Start: 9 @13381 has 597 MA's), (14, 13408), (16, 13414), (18, 13444), (25, 13483), (35, 13540), (46, 13585), (56, 13666), (66, 13720), (73, 13741), (74, 13744), (75, 13747),

Gene: AbbyPaige_20 Start: 13836, Stop: 14213, Start Num: 9

Candidate Starts for AbbyPaige_20:

(Start: 9 @13836 has 597 MA's), (15, 13866), (16, 13869), (18, 13899), (25, 13938), (57, 14124), (66, 14175), (74, 14199), (75, 14202),

Gene: AbbysRanger_17 Start: 12708, Stop: 13064, Start Num: 9

Candidate Starts for AbbysRanger_17:

(Start: 9 @12708 has 597 MA's), (25, 12810), (37, 12858), (43, 12879), (52, 12945), (58, 12981), (70, 13038), (75, 13053),

Gene: Abdiel_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Abdiel_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Achebe_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Achebe_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (56, 12954), (58, 12960), (66, 13005), (75, 13032),

Gene: Acolyte_18 Start: 13504, Stop: 13881, Start Num: 9

Candidate Starts for Acolyte_18:

(Start: 9 @13504 has 597 MA's), (18, 13567), (25, 13606), (46, 13708), (57, 13792), (66, 13843), (67, 13849), (74, 13867), (75, 13870),

Gene: AdaS_10 Start: 7295, Stop: 7651, Start Num: 9

Candidate Starts for AdaS_10:

(Start: 9 @7295 has 597 MA's), (24, 7394), (26, 7400), (43, 7466), (60, 7595), (63, 7610), (71, 7637),

Gene: Adzzy_19 Start: 12119, Stop: 12496, Start Num: 9

Candidate Starts for Adzzy_19:

(Start: 9 @12119 has 597 MA's), (14, 12146), (16, 12152), (18, 12182), (25, 12221), (66, 12458), (74, 12482), (75, 12485),

Gene: Agape74_20 Start: 13836, Stop: 14213, Start Num: 9

Candidate Starts for Agape74_20:

(Start: 9 @13836 has 597 MA's), (15, 13866), (16, 13869), (18, 13899), (25, 13938), (57, 14124), (66, 14175), (74, 14199), (75, 14202),

Gene: AgentM_14 Start: 11878, Stop: 12252, Start Num: 8

Candidate Starts for AgentM_14:

(Start: 8 @11878 has 49 MA's), (13, 11902), (15, 11908), (44, 12070), (52, 12133), (56, 12163), (62, 12193), (66, 12214), (73, 12235), (74, 12238), (75, 12241),

Gene: Aglet_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for Aglet_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: AgronaGT15_19 Start: 12704, Stop: 13075, Start Num: 9

Candidate Starts for AgronaGT15_19:

(Start: 9 @12704 has 597 MA's), (13, 12728), (22, 12788), (25, 12806), (52, 12956), (66, 13037), (67, 13043), (74, 13061), (75, 13064),

Gene: Aikyam_10 Start: 7296, Stop: 7652, Start Num: 9

Candidate Starts for Aikyam_10:

(Start: 9 @7296 has 597 MA's), (20, 7365), (24, 7395), (26, 7401), (41, 7458), (43, 7467), (60, 7596), (71, 7638),

Gene: Airmid_14 Start: 11638, Stop: 12012, Start Num: 8

Candidate Starts for Airmid_14:

(Start: 8 @11638 has 49 MA's), (13, 11662), (15, 11668), (44, 11830), (52, 11893), (61, 11950), (62, 11953), (66, 11974), (73, 11995), (74, 11998), (75, 12001),

Gene: Alatin_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Alatin_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Albee_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Albee_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Alberto7_18 Start: 12990, Stop: 13346, Start Num: 9

Candidate Starts for Alberto7_18:

(Start: 9 @12990 has 597 MA's), (25, 13092), (37, 13140), (43, 13161), (52, 13227), (58, 13263), (66, 13308), (75, 13335),

Gene: Aliter_19 Start: 14068, Stop: 14445, Start Num: 9

Candidate Starts for Aliter_19:

(Start: 9 @14068 has 597 MA's), (25, 14170), (63, 14389), (66, 14407), (67, 14413),

Gene: Alma_19 Start: 14147, Stop: 14524, Start Num: 9

Candidate Starts for Alma_19:

(Start: 9 @14147 has 597 MA's), (25, 14249), (63, 14468), (66, 14486), (67, 14492),

Gene: Alpacados_13 Start: 8846, Stop: 9226, Start Num: 9

Candidate Starts for Alpacados_13:

(Start: 9 @8846 has 597 MA's), (13, 8870), (21, 8918), (33, 8987), (46, 9050), (52, 9101), (65, 9179), (66, 9185), (72, 9206),

Gene: Anaysia_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for Anaysia_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Aneem_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Aneem_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Anekin_9 Start: 7408, Stop: 7764, Start Num: 9

Candidate Starts for Anekin_9:

(Start: 9 @7408 has 597 MA's), (14, 7435), (24, 7507), (37, 7558), (42, 7573), (43, 7579), (46, 7594), (71, 7750),

Gene: AngryOrchard_13 Start: 8829, Stop: 9209, Start Num: 9

Candidate Starts for AngryOrchard_13:

(Start: 9 @8829 has 597 MA's), (13, 8853), (21, 8901), (33, 8970), (37, 8997), (52, 9084), (65, 9162), (66, 9168), (72, 9189),

Gene: AnnaL29_21 Start: 15225, Stop: 15602, Start Num: 9

Candidate Starts for AnnaL29_21:

(Start: 9 @15225 has 597 MA's), (13, 15249), (14, 15252), (18, 15288), (25, 15327), (46, 15429), (73, 15585), (74, 15588), (75, 15591),

Gene: Annyong_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Annyong_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: Anon_18 Start: 12836, Stop: 13213, Start Num: 9

Candidate Starts for Anon_18:

(Start: 9 @12836 has 597 MA's), (20, 12905), (25, 12938), (52, 13091), (66, 13175), (73, 13196), (74, 13199), (75, 13202),

Gene: Anselm_18 Start: 13483, Stop: 13860, Start Num: 9

Candidate Starts for Anselm_18:

(Start: 9 @13483 has 597 MA's), (15, 13513), (16, 13516), (18, 13546), (25, 13585), (46, 13687), (66, 13822), (74, 13846), (75, 13849),

Gene: Anthony_17 Start: 11598, Stop: 11972, Start Num: 9

Candidate Starts for Anthony_17:

(Start: 9 @11598 has 597 MA's), (13, 11622), (25, 11700), (34, 11751), (52, 11853), (66, 11934), (74, 11958), (75, 11961),

Gene: Anubis_21 Start: 12682, Stop: 13053, Start Num: 9

Candidate Starts for Anubis_21:

(Start: 9 @12682 has 597 MA's), (13, 12706), (22, 12766), (25, 12784), (52, 12934), (66, 13015), (67, 13021), (74, 13039), (75, 13042),

Gene: AppleCloud_12 Start: 8569, Stop: 8949, Start Num: 9

Candidate Starts for AppleCloud_12:

(Start: 9 @8569 has 597 MA's), (13, 8593), (20, 8638), (21, 8641), (33, 8710), (37, 8737), (52, 8824), (65, 8902), (66, 8908), (72, 8929),

Gene: Aragog_14 Start: 11908, Stop: 12282, Start Num: 8

Candidate Starts for Aragog_14:

(Start: 8 @11908 has 49 MA's), (13, 11932), (15, 11938), (44, 12100), (52, 12163), (56, 12193), (62, 12223), (66, 12244), (73, 12265), (74, 12268), (75, 12271),

Gene: ArcherNM_20 Start: 15177, Stop: 15554, Start Num: 9

Candidate Starts for ArcherNM_20:

(Start: 9 @15177 has 597 MA's), (15, 15207), (16, 15210), (18, 15240), (25, 15279), (33, 15318), (66, 15516), (74, 15540),

Gene: Archetta_14 Start: 11621, Stop: 11995, Start Num: 8

Candidate Starts for Archetta_14:

(Start: 8 @11621 has 49 MA's), (13, 11645), (15, 11651), (44, 11813), (52, 11876), (56, 11906), (62, 11936), (66, 11957), (73, 11978), (74, 11981), (75, 11984),

Gene: Arissanae_17 Start: 12240, Stop: 12617, Start Num: 9

Candidate Starts for Arissanae_17:

(Start: 9 @12240 has 597 MA's), (16, 12273), (25, 12342), (34, 12393), (63, 12561), (66, 12579), (67, 12585), (74, 12603), (75, 12606),

Gene: Artemis2UCLA_21 Start: 13362, Stop: 13739, Start Num: 9

Candidate Starts for Artemis2UCLA_21:

(Start: 9 @13362 has 597 MA's), (14, 13389), (16, 13395), (17, 13422), (18, 13425), (25, 13464), (50, 13605), (66, 13701), (74, 13725), (75, 13728),

Gene: Arturo_16 Start: 12799, Stop: 13155, Start Num: 9

Candidate Starts for Arturo_16:

(Start: 9 @12799 has 597 MA's), (25, 12901), (37, 12949), (43, 12970), (52, 13036), (58, 13072), (66, 13117), (75, 13144),

Gene: Astro_14 Start: 11398, Stop: 11772, Start Num: 8

Candidate Starts for Astro_14:

(Start: 8 @11398 has 49 MA's), (37, 11566), (44, 11590), (46, 11602), (52, 11653), (61, 11710), (62, 11713), (66, 11734), (73, 11755), (74, 11758),

Gene: AugsMagnumOpus_21 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for AugsMagnumOpus_21:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: Auxilium_10 Start: 7295, Stop: 7651, Start Num: 9

Candidate Starts for Auxilium_10:

(Start: 9 @7295 has 597 MA's), (24, 7394), (26, 7400), (43, 7466), (60, 7595), (63, 7610), (71, 7637),

Gene: AvatarAhPeg_18 Start: 12972, Stop: 13328, Start Num: 9

Candidate Starts for AvatarAhPeg_18:

(Start: 9 @12972 has 597 MA's), (25, 13074), (37, 13122), (43, 13143), (52, 13209), (58, 13245), (70, 13302), (75, 13317),

Gene: Avle17_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Avle17_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Ayanochan_20 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for Ayanochan_20:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: B1_15 Start: 11996, Stop: 12370, Start Num: 9

Candidate Starts for B1_15:

(Start: 9 @11996 has 597 MA's), (25, 12098), (37, 12164), (43, 12185), (52, 12251), (66, 12332), (67, 12338), (74, 12356),

Gene: BABullseye_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for BABullseye_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Baby16_17 Start: 12697, Stop: 13053, Start Num: 9

Candidate Starts for Baby16_17:

(Start: 9 @12697 has 597 MA's), (25, 12799), (37, 12847), (43, 12868), (52, 12934), (58, 12970), (66, 13015), (75, 13042),

Gene: BabyBack_20 Start: 15016, Stop: 15393, Start Num: 9

Candidate Starts for BabyBack_20:

(Start: 9 @15016 has 597 MA's), (14, 15043), (16, 15049), (18, 15079), (25, 15118), (46, 15220), (57, 15304), (63, 15337), (64, 15346), (66, 15355), (73, 15376), (74, 15379), (75, 15382),

Gene: BabyJohn_16 Start: 12580, Stop: 12954, Start Num: 9

Candidate Starts for BabyJohn_16:

(Start: 9 @12580 has 597 MA's), (25, 12682), (37, 12748), (43, 12769), (52, 12835), (62, 12895), (66, 12916), (74, 12940),

Gene: BabyRay_17 Start: 12569, Stop: 12943, Start Num: 9

Candidate Starts for BabyRay_17:

(Start: 9 @12569 has 597 MA's), (25, 12671), (37, 12737), (43, 12758), (52, 12824), (66, 12905), (67, 12911), (74, 12929),

Gene: Bachome_18 Start: 13925, Stop: 14302, Start Num: 9

Candidate Starts for Bachome_18:

(Start: 9 @13925 has 597 MA's), (13, 13949), (18, 13988), (25, 14027), (27, 14033), (73, 14285), (74, 14288), (75, 14291),

Gene: Backyardigan_17 Start: 12699, Stop: 13055, Start Num: 9

Candidate Starts for Backyardigan_17:

(Start: 9 @12699 has 597 MA's), (25, 12801), (37, 12849), (43, 12870), (52, 12936), (56, 12966), (58, 12972), (66, 13017), (75, 13044),

Gene: Bactobuster_19 Start: 15108, Stop: 15485, Start Num: 9

Candidate Starts for Bactobuster_19:

(Start: 9 @15108 has 597 MA's), (17, 15168), (18, 15171), (25, 15210), (46, 15312), (59, 15402), (62, 15423), (66, 15447),

Gene: Badger_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Badger_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (56, 12955), (58, 12961), (66, 13006), (75, 13033),

Gene: Baehexic_19 Start: 13883, Stop: 14260, Start Num: 9

Candidate Starts for Baehexic_19:

(Start: 9 @13883 has 597 MA's), (14, 13910), (16, 13916), (18, 13946), (25, 13985), (31, 14015), (46, 14087), (64, 14213), (66, 14222), (73, 14243), (74, 14246), (75, 14249),

Gene: BangNhom_17 Start: 13000, Stop: 13356, Start Num: 9

Candidate Starts for BangNhom_17:

(Start: 9 @13000 has 597 MA's), (25, 13102), (37, 13150), (43, 13171), (52, 13237), (58, 13273), (66, 13318), (75, 13345),

Gene: Bartimeaus_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Bartimeaus_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: BasketStar_10 Start: 7418, Stop: 7705, Start Num: 20

Candidate Starts for BasketStar_10:

(Start: 9 @7349 has 597 MA's), (20, 7418), (24, 7448), (26, 7454), (41, 7511), (43, 7520), (60, 7649), (71, 7691),

Gene: Battleship_21 Start: 12605, Stop: 12982, Start Num: 9

Candidate Starts for Battleship_21:

(Start: 9 @12605 has 597 MA's), (25, 12707), (44, 12797), (67, 12950), (74, 12968), (75, 12971),

Gene: Beauxregard13_19 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for Beauxregard13_19:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Beemo_19 Start: 14174, Stop: 14551, Start Num: 9

Candidate Starts for Beemo_19:

(Start: 9 @14174 has 597 MA's), (25, 14276), (63, 14495), (66, 14513), (67, 14519),

Gene: Belenaria_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Belenaria_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Bellris_16 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for Bellris_16:

(Start: 9 @12210 has 597 MA's), (25, 12312), (63, 12531), (66, 12549), (67, 12555), (74, 12573), (75, 12576),

Gene: BellusTerra_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for BellusTerra_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: BenchScraper_10 Start: 7310, Stop: 7666, Start Num: 9

Candidate Starts for BenchScraper_10:

(Start: 9 @7310 has 597 MA's), (20, 7379), (24, 7409), (26, 7415), (41, 7472), (43, 7481), (60, 7610), (71, 7652),

Gene: Benedict_14 Start: 11640, Stop: 12014, Start Num: 8

Candidate Starts for Benedict_14:

(Start: 8 @11640 has 49 MA's), (13, 11664), (15, 11670), (44, 11832), (52, 11895), (61, 11952), (62, 11955), (66, 11976), (73, 11997), (74, 12000), (75, 12003),

Gene: BengiVuitton_19 Start: 13799, Stop: 14176, Start Num: 9

Candidate Starts for BengiVuitton_19:

(Start: 9 @13799 has 597 MA's), (15, 13829), (16, 13832), (18, 13862), (25, 13901), (66, 14138), (74, 14162), (75, 14165),

Gene: BennyP_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for BennyP_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: Benvolio_18 Start: 13473, Stop: 13850, Start Num: 9

Candidate Starts for Benvolio_18:

(Start: 9 @13473 has 597 MA's), (15, 13503), (16, 13506), (18, 13536), (25, 13575), (44, 13665), (46, 13677), (66, 13812), (74, 13836), (75, 13839),

Gene: Bhageatrice_12 Start: 8505, Stop: 8861, Start Num: 9

Candidate Starts for Bhageatrice_12:

(Start: 9 @8505 has 597 MA's), (14, 8532), (37, 8655), (43, 8676), (46, 8691), (55, 8769), (63, 8820), (71, 8847),

Gene: BiancaTri92_20 Start: 15161, Stop: 15538, Start Num: 9

Candidate Starts for BiancaTri92_20:

(Start: 9 @15161 has 597 MA's), (14, 15188), (16, 15194), (18, 15224), (25, 15263), (31, 15293), (32, 15299), (46, 15365), (66, 15500), (74, 15524), (75, 15527),

Gene: Bigflo_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Bigflo_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: BillKnuckles_17 Start: 13547, Stop: 13924, Start Num: 7

Candidate Starts for BillKnuckles_17:

(Start: 4 @13502 has 1 MA's), (Start: 7 @13547 has 5 MA's), (13, 13574), (25, 13652), (37, 13718), (44, 13742), (52, 13805), (56, 13835), (61, 13862), (69, 13895), (73, 13907), (74, 13910), (75, 13913),

Gene: BillyTP_10 Start: 7295, Stop: 7654, Start Num: 9

Candidate Starts for BillyTP_10:

(Start: 9 @7295 has 597 MA's), (20, 7364), (29, 7412), (43, 7466), (55, 7565), (71, 7640),

Gene: Blackmoor_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Blackmoor_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: BlessJoy_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for BlessJoy_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Blinn1_21 Start: 13517, Stop: 13894, Start Num: 9

Candidate Starts for Blinn1_21:

(Start: 9 @13517 has 597 MA's), (14, 13544), (16, 13550), (17, 13577), (18, 13580), (25, 13619), (46, 13721), (66, 13856), (74, 13880), (75, 13883),

Gene: Blue7_21 Start: 13452, Stop: 13829, Start Num: 9

Candidate Starts for Blue7_21:

(Start: 9 @13452 has 597 MA's), (14, 13479), (17, 13512), (18, 13515), (25, 13554), (50, 13695), (66, 13791), (74, 13815), (75, 13818),

Gene: BlueBird_18 Start: 12343, Stop: 12717, Start Num: 9

Candidate Starts for BlueBird_18:

(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: BlueShadow_10 Start: 7292, Stop: 7648, Start Num: 9

Candidate Starts for BlueShadow_10:

(Start: 9 @7292 has 597 MA's), (10, 7298), (11, 7304), (12, 7307), (20, 7361), (23, 7388), (24, 7391), (40, 7451), (41, 7454), (43, 7463), (60, 7592), (63, 7607), (71, 7634),

Gene: Bluefalcon_13 Start: 11878, Stop: 12252, Start Num: 8

Candidate Starts for Bluefalcon_13:

(Start: 8 @11878 has 49 MA's), (13, 11902), (15, 11908), (44, 12070), (52, 12133), (56, 12163), (62, 12193), (66, 12214), (73, 12235), (74, 12238), (75, 12241),

Gene: BobSwaget_21 Start: 15027, Stop: 15404, Start Num: 9

Candidate Starts for BobSwaget_21:

(Start: 9 @15027 has 597 MA's), (14, 15054), (18, 15090), (25, 15129), (46, 15231), (57, 15315), (66, 15366), (74, 15390), (75, 15393),

Gene: BobbyDazzler_14 Start: 8955, Stop: 9335, Start Num: 9

Candidate Starts for BobbyDazzler_14:

(Start: 9 @8955 has 597 MA's), (13, 8979), (21, 9027), (33, 9096), (37, 9123), (52, 9210), (65, 9288), (66, 9294), (72, 9315),

Gene: BogosyJay_19 Start: 13894, Stop: 14271, Start Num: 9

Candidate Starts for BogosyJay_19:

(Start: 9 @13894 has 597 MA's), (14, 13921), (18, 13957), (25, 13996), (66, 14233), (67, 14239),

Gene: Bombshell_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Bombshell_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Bonamassa_14 Start: 11800, Stop: 12174, Start Num: 8

Candidate Starts for Bonamassa_14:

(Start: 8 @11800 has 49 MA's), (13, 11824), (15, 11830), (37, 11968), (44, 11992), (52, 12055), (62, 12115), (66, 12136), (73, 12157), (74, 12160), (75, 12163),

Gene: Bonanza_14 Start: 8884, Stop: 9264, Start Num: 9

Candidate Starts for Bonanza_14:

(Start: 9 @8884 has 597 MA's), (13, 8908), (21, 8956), (33, 9025), (46, 9088), (52, 9139), (65, 9217), (66, 9223), (72, 9244),

Gene: Boohoo_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for Boohoo_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Bowtie_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Bowtie_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Bradman_17 Start: 12293, Stop: 12670, Start Num: 9

Candidate Starts for Bradman_17:

(Start: 9 @12293 has 597 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (25, 12395), (46, 12497), (66, 12632), (73, 12653), (74, 12656), (75, 12659),

Gene: Bradshaw_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Bradshaw_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: BreSam8_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for BreSam8_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: Broseidon_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Broseidon_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Bruiser_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Bruiser_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Bryce_14 Start: 8884, Stop: 9264, Start Num: 9

Candidate Starts for Bryce_14:

(Start: 9 @8884 has 597 MA's), (13, 8908), (21, 8956), (33, 9025), (37, 9052), (46, 9088), (48, 9109), (52, 9139), (65, 9217), (66, 9223), (72, 9244),

Gene: BubbleTrouble_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for BubbleTrouble_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (56, 12955), (58, 12961), (66, 13006), (75, 13033),

Gene: Bud_18 Start: 13934, Stop: 14311, Start Num: 9

Candidate Starts for Bud_18:

(Start: 9 @13934 has 597 MA's), (13, 13958), (18, 13997), (25, 14036), (27, 14042), (73, 14294), (74, 14297), (75, 14300),

Gene: Bugatti_17 Start: 12343, Stop: 12717, Start Num: 9

Candidate Starts for Bugatti_17:

(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: Buggy_20 Start: 13835, Stop: 14212, Start Num: 9

Candidate Starts for Buggy_20:

(Start: 9 @13835 has 597 MA's), (15, 13865), (16, 13868), (18, 13898), (25, 13937), (57, 14123), (66, 14174), (74, 14198), (75, 14201),

Gene: Bumblebee11_17 Start: 12690, Stop: 13046, Start Num: 9

Candidate Starts for Bumblebee11_17:

(Start: 9 @12690 has 597 MA's), (25, 12792), (37, 12840), (43, 12861), (52, 12927), (58, 12963), (70, 13020), (75, 13035),

Gene: Burger_16 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Burger_16:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: BuzzBuzz_18 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for BuzzBuzz_18:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: Bxb1_15 Start: 12916, Stop: 13293, Start Num: 7

Candidate Starts for Bxb1_15:

(Start: 4 @12871 has 1 MA's), (Start: 7 @12916 has 5 MA's), (13, 12943), (25, 13021), (37, 13087), (44, 13111), (52, 13174), (61, 13231), (69, 13264), (73, 13276), (74, 13279), (75, 13282),

Gene: Bxz2_19 Start: 12890, Stop: 13261, Start Num: 9

Candidate Starts for Bxz2_19:

(Start: 9 @12890 has 597 MA's), (13, 12914), (22, 12974), (25, 12992), (52, 13142), (66, 13223), (67, 13229), (74, 13247), (75, 13250),

Gene: C3_16 Start: 13381, Stop: 13758, Start Num: 9

Candidate Starts for C3_16:

(Start: 9 @13381 has 597 MA's), (14, 13408), (16, 13414), (18, 13444), (25, 13483), (35, 13540), (46, 13585), (56, 13666), (66, 13720), (73, 13741), (74, 13744), (75, 13747),

Gene: CRB1_18 Start: 13355, Stop: 13732, Start Num: 9

Candidate Starts for CRB1_18:

(Start: 9 @13355 has 597 MA's), (14, 13382), (16, 13388), (18, 13418), (25, 13457), (57, 13643), (66, 13694), (74, 13718), (75, 13721),

Gene: Caelakin_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Caelakin_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Caitlin_13 Start: 11395, Stop: 11769, Start Num: 8

Candidate Starts for Caitlin_13:

(Start: 8 @11395 has 49 MA's), (37, 11563), (44, 11587), (46, 11599), (52, 11650), (61, 11707), (62, 11710), (66, 11731), (73, 11752), (74, 11755),

Gene: Calvinny_20 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Calvinny_20:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: Camperdownii_16 Start: 12307, Stop: 12663, Start Num: 9

Candidate Starts for Camperdownii_16:

(Start: 9 @12307 has 597 MA's), (25, 12409), (37, 12457), (43, 12478), (52, 12544), (58, 12580), (66, 12625), (75, 12652),

Gene: Candra_21 Start: 13518, Stop: 13895, Start Num: 9

Candidate Starts for Candra_21:

(Start: 9 @13518 has 597 MA's), (14, 13545), (16, 13551), (17, 13578), (18, 13581), (25, 13620), (66, 13857), (74, 13881), (75, 13884),

Gene: Caraxes_17 Start: 12019, Stop: 12396, Start Num: 9

Candidate Starts for Caraxes_17:

(Start: 9 @12019 has 597 MA's), (14, 12046), (16, 12052), (18, 12082), (25, 12121), (66, 12358), (74, 12382), (75, 12385),

Gene: Catalina_19 Start: 14141, Stop: 14518, Start Num: 9

Candidate Starts for Catalina_19:

(Start: 9 @14141 has 597 MA's), (25, 14243), (63, 14462), (66, 14480), (67, 14486),

Gene: Caviar_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Caviar_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Celestiallunch_18 Start: 12310, Stop: 12687, Start Num: 9

Candidate Starts for Celestiallunch_18:

(Start: 9 @12310 has 597 MA's), (20, 12379), (25, 12412), (57, 12598), (63, 12631), (66, 12649), (74, 12673), (75, 12676),

Gene: Centaur_20 Start: 13861, Stop: 14238, Start Num: 9

Candidate Starts for Centaur_20:

(Start: 9 @13861 has 597 MA's), (14, 13888), (16, 13894), (18, 13924), (25, 13963), (31, 13993), (46, 14065), (66, 14200), (73, 14221), (74, 14224), (75, 14227),

Gene: CentreCat_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for CentreCat_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: Cerulean_18 Start: 13001, Stop: 13357, Start Num: 9

Candidate Starts for Cerulean_18:

(Start: 9 @13001 has 597 MA's), (25, 13103), (37, 13151), (43, 13172), (52, 13238), (58, 13274), (66, 13319), (75, 13346),

Gene: Chadwick_15 Start: 11608, Stop: 11982, Start Num: 8

Candidate Starts for Chadwick_15:

(Start: 8 @11608 has 49 MA's), (13, 11632), (15, 11638), (44, 11800), (52, 11863), (62, 11923), (66, 11944), (73, 11965), (74, 11968), (75, 11971),

Gene: ChampagnePapi_18 Start: 13000, Stop: 13356, Start Num: 9

Candidate Starts for ChampagnePapi_18:

(Start: 9 @13000 has 597 MA's), (25, 13102), (37, 13150), (43, 13171), (52, 13237), (58, 13273), (66, 13318), (75, 13345),

Gene: Changeling_21 Start: 15226, Stop: 15603, Start Num: 9

Candidate Starts for Changeling_21:

(Start: 9 @15226 has 597 MA's), (14, 15253), (15, 15256), (18, 15289), (25, 15328), (32, 15364), (46, 15430), (73, 15586), (74, 15589), (75, 15592),

Gene: Chaph_17 Start: 12697, Stop: 13053, Start Num: 9

Candidate Starts for Chaph_17:

(Start: 9 @12697 has 597 MA's), (25, 12799), (37, 12847), (43, 12868), (52, 12934), (58, 12970), (66, 13015), (75, 13042),

Gene: Chargerpower_18 Start: 12591, Stop: 12968, Start Num: 9

Candidate Starts for Chargerpower_18:

(Start: 9 @12591 has 597 MA's), (15, 12621), (17, 12651), (25, 12693), (46, 12795), (56, 12876), (66, 12930), (73, 12951), (74, 12954), (75, 12957),

Gene: Charm_18 Start: 12322, Stop: 12699, Start Num: 9

Candidate Starts for Charm_18:

(Start: 9 @12322 has 597 MA's), (25, 12424), (34, 12475), (57, 12610), (63, 12643), (66, 12661), (74, 12685), (75, 12688),

Gene: Chartreuse_21 Start: 13431, Stop: 13808, Start Num: 9

Candidate Starts for Chartreuse_21:

(Start: 9 @13431 has 597 MA's), (14, 13458), (16, 13464), (17, 13491), (18, 13494), (25, 13533), (66, 13770), (74, 13794), (75, 13797),

Gene: Che12_20 Start: 12285, Stop: 12662, Start Num: 9

Candidate Starts for Che12_20:

(Start: 9 @12285 has 597 MA's), (14, 12312), (16, 12318), (18, 12348), (25, 12387), (66, 12624), (74, 12648), (75, 12651),

Gene: ChipMunk_20 Start: 13771, Stop: 14148, Start Num: 9

Candidate Starts for ChipMunk_20:

(Start: 9 @13771 has 597 MA's), (15, 13801), (16, 13804), (18, 13834), (25, 13873), (46, 13975), (66, 14110), (67, 14116), (74, 14134), (75, 14137),

Gene: Chiqui_16 Start: 12580, Stop: 12954, Start Num: 9

Candidate Starts for Chiqui_16:

(Start: 9 @12580 has 597 MA's), (25, 12682), (37, 12748), (43, 12769), (52, 12835), (62, 12895), (66, 12916), (74, 12940),

Gene: Chupacabra_17 Start: 12449, Stop: 12823, Start Num: 9

Candidate Starts for Chupacabra_17:

(Start: 9 @12449 has 597 MA's), (25, 12551), (37, 12617), (43, 12638), (52, 12704), (58, 12740), (66, 12785), (67, 12791), (75, 12812),

Gene: Cici_17 Start: 12681, Stop: 13037, Start Num: 9

Candidate Starts for Cici_17:

(Start: 9 @12681 has 597 MA's), (25, 12783), (37, 12831), (43, 12852), (52, 12918), (58, 12954), (70, 13011), (75, 13026),

Gene: Cindaradix_16 Start: 12415, Stop: 12771, Start Num: 9

Candidate Starts for Cindaradix_16:

(Start: 9 @12415 has 597 MA's), (25, 12517), (37, 12565), (43, 12586), (52, 12652), (58, 12688), (70, 12745), (75, 12760),

Gene: Cintron_17 Start: 12736, Stop: 13092, Start Num: 9

Candidate Starts for Cintron_17:

(Start: 9 @12736 has 597 MA's), (25, 12838), (37, 12886), (43, 12907), (52, 12973), (58, 13009), (66, 13054), (75, 13081),

Gene: Citius_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Citius_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Clammy_17 Start: 12343, Stop: 12717, Start Num: 9

Candidate Starts for Clammy_17:

(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: Clarenza_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Clarenza_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: CloudWang3_21 Start: 13462, Stop: 13839, Start Num: 9

Candidate Starts for CloudWang3_21:

(Start: 9 @13462 has 597 MA's), (14, 13489), (16, 13495), (17, 13522), (18, 13525), (25, 13564), (66, 13801), (74, 13825), (75, 13828),

Gene: ClownCar_20 Start: 12862, Stop: 13233, Start Num: 9

Candidate Starts for ClownCar_20:

(Start: 9 @12862 has 597 MA's), (13, 12886), (22, 12946), (25, 12964), (52, 13114), (66, 13195), (67, 13201), (74, 13219), (75, 13222),

Gene: Cocoaberry_17 Start: 12692, Stop: 13048, Start Num: 9

Candidate Starts for Cocoaberry_17:

(Start: 9 @12692 has 597 MA's), (25, 12794), (37, 12842), (43, 12863), (52, 12929), (58, 12965), (66, 13010), (75, 13037),

Gene: CogOmlette_16 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for CogOmlette_16:

(Start: 9 @12210 has 597 MA's), (25, 12312), (63, 12531), (66, 12549), (67, 12555), (74, 12573), (75, 12576),

Gene: Colbster_19 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for Colbster_19:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Colin_22 Start: 15065, Stop: 15442, Start Num: 9

Candidate Starts for Colin_22:

(Start: 9 @15065 has 597 MA's), (13, 15089), (14, 15092), (18, 15128), (25, 15167), (32, 15203), (46, 15269), (66, 15404), (73, 15425), (74, 15428), (75, 15431),

Gene: Commander_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Commander_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Connomayer_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Connomayer_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (56, 12955), (58, 12961), (66, 13006), (75, 13033),

Gene: Conquerage_19 Start: 14170, Stop: 14547, Start Num: 9

Candidate Starts for Conquerage_19:

(Start: 9 @14170 has 597 MA's), (25, 14272), (63, 14491), (66, 14509), (67, 14515),

Gene: Conspiracy_14 Start: 11624, Stop: 11998, Start Num: 8

Candidate Starts for Conspiracy_14:

(Start: 8 @11624 has 49 MA's), (13, 11648), (15, 11654), (37, 11792), (44, 11816), (52, 11879), (62, 11939), (66, 11960), (73, 11981), (74, 11984), (75, 11987),

Gene: Coog_14 Start: 11768, Stop: 12142, Start Num: 8

Candidate Starts for Coog_14:

(Start: 8 @11768 has 49 MA's), (13, 11792), (15, 11798), (37, 11936), (44, 11960), (52, 12023), (62, 12083), (66, 12104), (73, 12125), (74, 12128), (75, 12131),

Gene: CookieBear_10 Start: 7295, Stop: 7651, Start Num: 9

Candidate Starts for CookieBear_10:

(Start: 9 @7295 has 597 MA's), (24, 7394), (26, 7400), (43, 7466), (60, 7595), (63, 7610), (71, 7637),

Gene: Cookiedough_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for Cookiedough_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: CosmicBrownie_9 Start: 7364, Stop: 7723, Start Num: 9

Candidate Starts for CosmicBrownie_9:

(Start: 9 @7364 has 597 MA's), (11, 7376), (12, 7379), (14, 7391), (19, 7430), (26, 7469), (37, 7514), (43, 7535), (71, 7709), (73, 7715),

Gene: CosmicSans_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for CosmicSans_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Crescenzo_10 Start: 7336, Stop: 7692, Start Num: 9

Candidate Starts for Crescenzo_10:

(Start: 9 @7336 has 597 MA's), (14, 7363), (24, 7435), (37, 7486), (42, 7501), (43, 7507), (46, 7522), (71, 7678),

Gene: Croquant_20 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Croquant_20:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Crucio_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for Crucio_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: Cuco_14 Start: 11799, Stop: 12173, Start Num: 8

Candidate Starts for Cuco_14:

(Start: 8 @11799 has 49 MA's), (13, 11823), (15, 11829), (37, 11967), (44, 11991), (52, 12054), (62, 12114), (66, 12135), (73, 12156), (74, 12159), (75, 12162),

Gene: Cullens_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Cullens_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: D29_19 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for D29_19:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: D32_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for D32_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: DBQu4n_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for DBQu4n_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: DaHudson_19 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for DaHudson_19:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: DaVinci_21 Start: 13485, Stop: 13862, Start Num: 9

Candidate Starts for DaVinci_21:

(Start: 9 @13485 has 597 MA's), (14, 13512), (16, 13518), (17, 13545), (18, 13548), (25, 13587), (66, 13824), (74, 13848), (75, 13851),

Gene: Daishi_18 Start: 11721, Stop: 12092, Start Num: 9

Candidate Starts for Daishi_18:

(Start: 9 @11721 has 597 MA's), (13, 11745), (22, 11805), (25, 11823), (52, 11973), (66, 12054), (67, 12060), (74, 12078), (75, 12081),

Gene: Dalmatian_18 Start: 13468, Stop: 13845, Start Num: 9

Candidate Starts for Dalmatian_18:

(Start: 9 @13468 has 597 MA's), (15, 13498), (16, 13501), (18, 13531), (25, 13570), (46, 13672), (66, 13807), (74, 13831), (75, 13834),

Gene: Danforth_13 Start: 11377, Stop: 11751, Start Num: 8

Candidate Starts for Danforth_13:

(Start: 8 @11377 has 49 MA's), (37, 11545), (44, 11569), (46, 11581), (52, 11632), (61, 11689), (62, 11692), (66, 11713), (73, 11734), (74, 11737),

Gene: Darrell_20 Start: 14332, Stop: 14709, Start Num: 9

Candidate Starts for Darrell_20:

(Start: 9 @14332 has 597 MA's), (18, 14395), (25, 14434), (31, 14464), (34, 14485), (35, 14491), (57, 14620), (63, 14653), (66, 14671), (67, 14677), (74, 14695), (75, 14698),

Gene: DARTHPhader_19 Start: 14307, Stop: 14684, Start Num: 9

Candidate Starts for DARTHPhader_19:

(Start: 9 @14307 has 597 MA's), (15, 14337), (17, 14367), (18, 14370), (25, 14409), (31, 14439), (43, 14496), (46, 14511), (48, 14532), (66, 14646), (67, 14652), (74, 14670),

Gene: DarwinJr_13 Start: 8639, Stop: 8995, Start Num: 9

Candidate Starts for DarwinJr_13:

(Start: 9 @8639 has 597 MA's), (14, 8666), (24, 8738), (37, 8789), (42, 8804), (43, 8810), (46, 8825), (71, 8981),

Gene: Datway_17 Start: 12699, Stop: 13055, Start Num: 9

Candidate Starts for Datway_17:

(Start: 9 @12699 has 597 MA's), (25, 12801), (37, 12849), (43, 12870), (52, 12936), (56, 12966), (58, 12972), (66, 13017), (75, 13044),

Gene: Deano_17 Start: 12696, Stop: 13052, Start Num: 9

Candidate Starts for Deano_17:

(Start: 9 @12696 has 597 MA's), (25, 12798), (37, 12846), (43, 12867), (52, 12933), (58, 12969), (66, 13014), (75, 13041),

Gene: DeerParkTS_19 Start: 13432, Stop: 13809, Start Num: 9

Candidate Starts for DeerParkTS_19:

(Start: 9 @13432 has 597 MA's), (14, 13459), (16, 13465), (18, 13495), (25, 13534), (46, 13636), (57, 13720), (66, 13771), (67, 13777), (74, 13795), (75, 13798),

Gene: DekHockey33_20 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for DekHockey33_20:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: Deloris_19 Start: 13799, Stop: 14176, Start Num: 9

Candidate Starts for Deloris_19:

(Start: 9 @13799 has 597 MA's), (15, 13829), (16, 13832), (18, 13862), (25, 13901), (66, 14138), (74, 14162), (75, 14165),

Gene: DelvinSonDorr_20 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for DelvinSonDorr_20:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Dhanush_17 Start: 12691, Stop: 13047, Start Num: 9

Candidate Starts for Dhanush_17:

(Start: 9 @12691 has 597 MA's), (25, 12793), (37, 12841), (43, 12862), (52, 12928), (58, 12964), (66, 13009), (75, 13036),

Gene: Dieselweasel_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for Dieselweasel_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: Dignity_20 Start: 13780, Stop: 14157, Start Num: 9

Candidate Starts for Dignity_20:

(Start: 9 @13780 has 597 MA's), (15, 13810), (16, 13813), (18, 13843), (25, 13882), (57, 14068), (66, 14119), (74, 14143), (75, 14146),

Gene: Ding_10 Start: 7266, Stop: 7622, Start Num: 9

Candidate Starts for Ding_10:

(Start: 9 @7266 has 597 MA's), (11, 7278), (12, 7281), (24, 7365), (28, 7380), (31, 7398), (37, 7416), (42, 7431), (43, 7437), (49, 7485), (55, 7530), (58, 7551), (71, 7608),

Gene: Dinger_14 Start: 8880, Stop: 9260, Start Num: 9

Candidate Starts for Dinger_14:

(Start: 9 @8880 has 597 MA's), (13, 8904), (21, 8952), (33, 9021), (37, 9048), (52, 9135), (65, 9213), (66, 9219), (72, 9240),

Gene: DirtyDunning_17 Start: 12684, Stop: 13040, Start Num: 9

Candidate Starts for DirtyDunning_17:

(Start: 9 @12684 has 597 MA's), (25, 12786), (37, 12834), (43, 12855), (52, 12921), (58, 12957), (66, 13002), (75, 13029),

Gene: Discoknowium_14 Start: 11914, Stop: 12288, Start Num: 8

Candidate Starts for Discoknowium_14:

(Start: 8 @11914 has 49 MA's), (13, 11938), (15, 11944), (37, 12082), (44, 12106), (52, 12169), (62, 12229), (66, 12250), (73, 12271), (74, 12274), (75, 12277),

Gene: Dixon_14 Start: 11396, Stop: 11770, Start Num: 8

Candidate Starts for Dixon_14:

(Start: 8 @11396 has 49 MA's), (37, 11564), (44, 11588), (46, 11600), (52, 11651), (61, 11708), (62, 11711), (66, 11732), (73, 11753), (74, 11756),

Gene: DontArgue_16 Start: 10707, Stop: 11081, Start Num: 9

Candidate Starts for DontArgue_16:

(Start: 9 @10707 has 597 MA's), (25, 10809), (37, 10875), (43, 10896), (44, 10899), (52, 10962), (58, 10998), (66, 11043), (67, 11049), (75, 11070),

Gene: Dorothea_21 Start: 13486, Stop: 13863, Start Num: 9

Candidate Starts for Dorothea_21:

(Start: 9 @13486 has 597 MA's), (14, 13513), (16, 13519), (17, 13546), (18, 13549), (25, 13588), (66, 13825), (74, 13849), (75, 13852),

Gene: Drake55_20 Start: 13879, Stop: 14256, Start Num: 9

Candidate Starts for Drake55_20:

(Start: 9 @13879 has 597 MA's), (14, 13906), (16, 13912), (18, 13942), (25, 13981), (31, 14011), (46, 14083), (66, 14218), (73, 14239), (74, 14242), (75, 14245),

Gene: Drake94_16 Start: 10540, Stop: 10914, Start Num: 9

Candidate Starts for Drake94_16:

(Start: 9 @10540 has 597 MA's), (25, 10642), (37, 10708), (43, 10729), (45, 10735), (52, 10795), (58, 10831), (62, 10855), (75, 10903),

Gene: DreamTeam1_18 Start: 12322, Stop: 12699, Start Num: 9

Candidate Starts for DreamTeam1_18:

(Start: 9 @12322 has 597 MA's), (25, 12424), (34, 12475), (57, 12610), (63, 12643), (66, 12661), (74, 12685), (75, 12688),

Gene: DroogsArmy_18 Start: 14037, Stop: 14411, Start Num: 9

Candidate Starts for DroogsArmy_18:

(Start: 9 @14037 has 597 MA's), (25, 14139), (37, 14205), (38, 14208), (43, 14226), (44, 14229), (45, 14232), (52, 14292), (55, 14307), (66, 14373), (70, 14385), (74, 14397), (75, 14400),

Gene: DropBear_17 Start: 12403, Stop: 12777, Start Num: 9

Candidate Starts for DropBear_17:

(Start: 9 @12403 has 597 MA's), (25, 12505), (37, 12571), (43, 12592), (52, 12658), (66, 12739), (67, 12745), (74, 12763),

Gene: Druantia_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Druantia_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: Dublin_13 Start: 11767, Stop: 12141, Start Num: 8

Candidate Starts for Dublin_13:

(Start: 8 @11767 has 49 MA's), (13, 11791), (15, 11797), (37, 11935), (44, 11959), (52, 12022), (62, 12082), (66, 12103), (73, 12124), (74, 12127), (75, 12130),

Gene: DudeLittle_18 Start: 13470, Stop: 13847, Start Num: 9

Candidate Starts for DudeLittle_18:

(Start: 9 @13470 has 597 MA's), (15, 13500), (16, 13503), (18, 13533), (25, 13572), (46, 13674), (66, 13809), (74, 13833), (75, 13836),

Gene: Duplo_21 Start: 13313, Stop: 13687, Start Num: 9

Candidate Starts for Duplo_21:

(Start: 9 @13313 has 597 MA's), (14, 13340), (16, 13346), (18, 13376), (25, 13415), (32, 13451), (44, 13502), (46, 13514), (62, 13625), (66, 13649), (74, 13673), (75, 13676),

Gene: DustyMartin_20 Start: 12519, Stop: 12893, Start Num: 9

Candidate Starts for DustyMartin_20:

(Start: 9 @12519 has 597 MA's), (20, 12588), (25, 12621), (43, 12708), (52, 12774), (66, 12855), (70, 12867), (75, 12882),

Gene: EZMoney23_22 Start: 15354, Stop: 15731, Start Num: 9

Candidate Starts for EZMoney23_22:

(Start: 9 @15354 has 597 MA's), (14, 15381), (15, 15384), (18, 15417), (25, 15456), (46, 15558), (64, 15684), (66, 15693), (73, 15714), (74, 15717), (75, 15720),

Gene: Eagle_16 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Eagle_16:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: EagleEye_20 Start: 13616, Stop: 13993, Start Num: 9

Candidate Starts for EagleEye_20:

(2, 13511), (Start: 9 @13616 has 597 MA's), (14, 13643), (18, 13679), (20, 13685), (25, 13718), (53, 13874), (66, 13955), (67, 13961), (73, 13976), (75, 13982),

Gene: Eaglepride_18 Start: 12459, Stop: 12833, Start Num: 9

Candidate Starts for Eaglepride_18:

(Start: 9 @12459 has 597 MA's), (25, 12561), (37, 12627), (39, 12633), (43, 12648), (44, 12651), (45, 12654), (52, 12714), (58, 12750), (66, 12795), (67, 12801), (70, 12807), (75, 12822),

Gene: Eapen_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Eapen_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (58, 12960), (66, 13005), (75, 13032),

Gene: Ebony_18 Start: 13977, Stop: 14354, Start Num: 9

Candidate Starts for Ebony_18:

(Start: 9 @13977 has 597 MA's), (13, 14001), (18, 14040), (25, 14079), (27, 14085), (73, 14337), (74, 14340), (75, 14343),

Gene: Echild_18 Start: 13473, Stop: 13850, Start Num: 9

Candidate Starts for Echild_18:

(Start: 9 @13473 has 597 MA's), (15, 13503), (16, 13506), (18, 13536), (25, 13575), (44, 13665), (46, 13677), (66, 13812), (74, 13836), (75, 13839),

Gene: Edison31_17 Start: 12483, Stop: 12857, Start Num: 9

Candidate Starts for Edison31_17:

(Start: 9 @12483 has 597 MA's), (25, 12585), (37, 12651), (43, 12672), (52, 12738), (58, 12774), (66, 12819), (75, 12846),

Gene: EdogawaKiddo_17 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for EdogawaKiddo_17:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: Eidsmoe_19 Start: 14170, Stop: 14547, Start Num: 9

Candidate Starts for Eidsmoe_19:

(Start: 9 @14170 has 597 MA's), (25, 14272), (63, 14491), (66, 14509), (67, 14515),

Gene: EITiger69_14 Start: 11638, Stop: 12012, Start Num: 8

Candidate Starts for EITiger69_14:

(Start: 8 @11638 has 49 MA's), (13, 11662), (15, 11668), (44, 11830), (52, 11893), (61, 11950), (62, 11953), (66, 11974), (73, 11995), (74, 11998), (75, 12001),

Gene: Elephantoon_19 Start: 13761, Stop: 14138, Start Num: 9

Candidate Starts for Elephantoon_19:

(Start: 9 @13761 has 597 MA's), (25, 13863), (34, 13914), (63, 14082), (66, 14100), (67, 14106), (74, 14124), (75, 14127),

Gene: Elle_18 Start: 12204, Stop: 12581, Start Num: 9

Candidate Starts for Elle_18:

(Start: 9 @12204 has 597 MA's), (19, 12270), (20, 12273), (25, 12306), (32, 12342), (52, 12459), (66, 12543), (73, 12564), (74, 12567), (75, 12570),

Gene: EmyBug_19 Start: 14170, Stop: 14547, Start Num: 9

Candidate Starts for EmyBug_19:

(Start: 9 @14170 has 597 MA's), (25, 14272), (63, 14491), (66, 14509), (67, 14515),

Gene: EpicPhail_19 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for EpicPhail_19:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Epsocamisio_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for Epsocamisio_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Equemioh13_20 Start: 13864, Stop: 14241, Start Num: 9

Candidate Starts for Equemioh13_20:

(Start: 9 @13864 has 597 MA's), (14, 13891), (16, 13897), (18, 13927), (25, 13966), (31, 13996), (46, 14068), (66, 14203), (73, 14224), (74, 14227), (75, 14230),

Gene: EricB_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for EricB_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Erik_14 Start: 8915, Stop: 9295, Start Num: 9

Candidate Starts for Erik_14:

(Start: 9 @8915 has 597 MA's), (13, 8939), (21, 8987), (37, 9083), (46, 9119), (48, 9140), (52, 9170), (62, 9230), (65, 9248), (66, 9254), (72, 9275),

Gene: Eris_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Eris_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Eros_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Eros_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Espica_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Espica_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Et2Brutus_17 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Et2Brutus_17:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: EtoileNova_18 Start: 12887, Stop: 13261, Start Num: 9

Candidate Starts for EtoileNova_18:

(Start: 9 @12887 has 597 MA's), (13, 12911), (25, 12989), (37, 13055), (43, 13076), (52, 13142), (66, 13223), (74, 13247),

Gene: Eurydice_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Eurydice_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: EvePickles_10 Start: 7351, Stop: 7707, Start Num: 9

Candidate Starts for EvePickles_10:

(Start: 9 @7351 has 597 MA's), (20, 7420), (26, 7456), (37, 7501), (42, 7516), (43, 7522), (58, 7636), (71, 7693),

Gene: EvilGenius_20 Start: 13781, Stop: 14158, Start Num: 9

Candidate Starts for EvilGenius_20:

(Start: 9 @13781 has 597 MA's), (15, 13811), (16, 13814), (18, 13844), (25, 13883), (46, 13985), (66, 14120), (67, 14126), (74, 14144), (75, 14147),

Gene: Expelliarmus_13 Start: 11363, Stop: 11737, Start Num: 8

Candidate Starts for Expelliarmus_13:

(Start: 8 @11363 has 49 MA's), (37, 11531), (44, 11555), (46, 11567), (52, 11618), (61, 11675), (62, 11678), (66, 11699), (73, 11720), (74, 11723),

Gene: ExplosioNervosa_19 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for ExplosioNervosa_19:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: Faja_10 Start: 7295, Stop: 7651, Start Num: 9

Candidate Starts for Faja_10:

(Start: 9 @7295 has 597 MA's), (20, 7364), (26, 7400), (37, 7445), (42, 7460), (43, 7466), (58, 7580), (71, 7637),

Gene: Fameo_18 Start: 13396, Stop: 13773, Start Num: 9

Candidate Starts for Fameo_18:

(Start: 9 @13396 has 597 MA's), (14, 13423), (16, 13429), (18, 13459), (25, 13498), (30, 13522), (46, 13600), (66, 13735), (74, 13759),

Gene: Farber_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for Farber_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: FatCactus_16 Start: 11529, Stop: 11903, Start Num: 9

Candidate Starts for FatCactus_16:

(Start: 9 @11529 has 597 MA's), (25, 11631), (34, 11682), (52, 11784), (66, 11865), (74, 11889), (75, 11892),

Gene: Fayely_19 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for Fayely_19:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: Fernando_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Fernando_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Fibonacci_18 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Fibonacci_18:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: FiringLine_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for FiringLine_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: First_0018 Start: 13386, Stop: 13763, Start Num: 9

Candidate Starts for First_0018:

(Start: 9 @13386 has 597 MA's), (15, 13416), (16, 13419), (18, 13449), (25, 13488), (46, 13590), (66, 13725), (74, 13749), (75, 13752),

Gene: Flare16_18 Start: 13422, Stop: 13799, Start Num: 9

Candidate Starts for Flare16_18:

(Start: 9 @13422 has 597 MA's), (14, 13449), (16, 13455), (18, 13485), (25, 13524), (31, 13554), (46, 13626), (66, 13761), (73, 13782), (74, 13785), (75, 13788),

Gene: Flaverint_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Flaverint_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Florean_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Florean_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Florence1_14 Start: 11588, Stop: 11962, Start Num: 8

Candidate Starts for Florence1_14:

(Start: 8 @11588 has 49 MA's), (13, 11612), (15, 11618), (37, 11756), (44, 11780), (52, 11843), (62, 11903), (66, 11924), (73, 11945), (74, 11948), (75, 11951),

Gene: Florence4_15 Start: 11588, Stop: 11962, Start Num: 8

Candidate Starts for Florence4_15:

(Start: 8 @11588 has 49 MA's), (13, 11612), (15, 11618), (37, 11756), (44, 11780), (52, 11843), (62, 11903), (66, 11924), (73, 11945), (74, 11948), (75, 11951),

Gene: Flux_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Flux_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: FlyCatcher_21 Start: 14336, Stop: 14710, Start Num: 9

Candidate Starts for FlyCatcher_21:

(Start: 9 @14336 has 597 MA's), (25, 14438), (37, 14504), (39, 14510), (43, 14525), (52, 14591), (58, 14627), (66, 14672), (67, 14678), (74, 14696),

Gene: ForGetIt_14 Start: 11650, Stop: 12024, Start Num: 8

Candidate Starts for ForGetIt_14:

(Start: 8 @11650 has 49 MA's), (13, 11674), (15, 11680), (37, 11818), (44, 11842), (52, 11905), (62, 11965), (66, 11986), (73, 12007), (74, 12010), (75, 12013),

Gene: ForesterFrank_19 Start: 14893, Stop: 15270, Start Num: 9

Candidate Starts for ForesterFrank_19:

(Start: 9 @14893 has 597 MA's), (14, 14920), (15, 14923), (18, 14956), (25, 14995), (32, 15031), (46, 15097), (64, 15223), (66, 15232), (73, 15253), (74, 15256), (75, 15259),

Gene: Fred313_17 Start: 12061, Stop: 12435, Start Num: 9

Candidate Starts for Fred313_17:

(Start: 9 @12061 has 597 MA's), (25, 12163), (37, 12229), (43, 12250), (52, 12316), (66, 12397), (74, 12421),

Gene: Funston_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Funston_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Gadost_17 Start: 12692, Stop: 13048, Start Num: 9

Candidate Starts for Gadost_17:

(Start: 9 @12692 has 597 MA's), (25, 12794), (37, 12842), (43, 12863), (52, 12929), (58, 12965), (66, 13010), (75, 13037),

Gene: Gail_17 Start: 12483, Stop: 12860, Start Num: 9

Candidate Starts for Gail_17:

(Start: 9 @12483 has 597 MA's), (16, 12516), (17, 12543), (18, 12546), (25, 12585), (48, 12708), (74, 12846), (75, 12849),

Gene: Garak_22 Start: 13480, Stop: 13857, Start Num: 9

Candidate Starts for Garak_22:

(Start: 9 @13480 has 597 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (25, 13582), (66, 13819), (74, 13843), (75, 13846),

Gene: GaugeLDP_20 Start: 14689, Stop: 15066, Start Num: 9

Candidate Starts for GaugeLDP_20:

(Start: 9 @14689 has 597 MA's), (14, 14716), (16, 14722), (18, 14752), (25, 14791), (57, 14977), (64, 15019), (66, 15028), (73, 15049), (74, 15052), (75, 15055),

Gene: Gemma_19 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Gemma_19:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: George_13 Start: 11800, Stop: 12174, Start Num: 8

Candidate Starts for George_13:

(Start: 8 @11800 has 49 MA's), (13, 11824), (15, 11830), (37, 11968), (44, 11992), (52, 12055), (62, 12115), (66, 12136), (73, 12157), (74, 12160), (75, 12163),

Gene: Georgie2_19 Start: 13319, Stop: 13696, Start Num: 9

Candidate Starts for Georgie2_19:

(Start: 9 @13319 has 597 MA's), (15, 13349), (16, 13352), (18, 13382), (25, 13421), (46, 13523), (66, 13658), (67, 13664), (74, 13682),

Gene: Ghouboy_14 Start: 11877, Stop: 12251, Start Num: 8

Candidate Starts for Ghouboy_14:

(Start: 8 @11877 has 49 MA's), (13, 11901), (15, 11907), (44, 12069), (52, 12132), (56, 12162), (62, 12192), (66, 12213), (73, 12234), (74, 12237), (75, 12240),

Gene: Gilberta_18 Start: 13925, Stop: 14302, Start Num: 9

Candidate Starts for Gilberta_18:

(Start: 9 @13925 has 597 MA's), (13, 13949), (18, 13988), (25, 14027), (27, 14033), (73, 14285), (74, 14288), (75, 14291),

Gene: GingkoMaracino_19 Start: 12682, Stop: 13053, Start Num: 9

Candidate Starts for GingkoMaracino_19:

(Start: 9 @12682 has 597 MA's), (13, 12706), (22, 12766), (25, 12784), (52, 12934), (66, 13015), (67, 13021), (74, 13039), (75, 13042),

Gene: Giroux_18 Start: 12343, Stop: 12717, Start Num: 9

Candidate Starts for Giroux_18:

(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: Gladiator_21 Start: 13452, Stop: 13829, Start Num: 9

Candidate Starts for Gladiator_21:

(Start: 9 @13452 has 597 MA's), (14, 13479), (17, 13512), (18, 13515), (25, 13554), (50, 13695), (66, 13791), (74, 13815), (75, 13818),

Gene: Globfish_10 Start: 7340, Stop: 7696, Start Num: 9

Candidate Starts for Globfish_10:

(Start: 9 @7340 has 597 MA's), (20, 7409), (23, 7436), (24, 7439), (26, 7445), (41, 7502), (43, 7511), (60, 7640), (71, 7682),

Gene: Gollum_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Gollum_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Goose_17 Start: 12450, Stop: 12824, Start Num: 9

Candidate Starts for Goose_17:

(Start: 9 @12450 has 597 MA's), (25, 12552), (37, 12618), (43, 12639), (52, 12705), (58, 12741), (66, 12786), (67, 12792), (75, 12813),

Gene: Gorpy_10 Start: 7304, Stop: 7660, Start Num: 9

Candidate Starts for Gorpy_10:

(Start: 9 @7304 has 597 MA's), (20, 7373), (24, 7403), (26, 7409), (41, 7466), (43, 7475), (60, 7604), (71, 7646),

Gene: Gratitude_19 Start: 13864, Stop: 14241, Start Num: 9

Candidate Starts for Gratitude_19:

(Start: 9 @13864 has 597 MA's), (14, 13891), (16, 13897), (18, 13927), (25, 13966), (31, 13996), (46, 14068), (66, 14203), (73, 14224), (74, 14227), (75, 14230),

Gene: GreedyLawyer_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for GreedyLawyer_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: Grif_19 Start: 12879, Stop: 13250, Start Num: 9

Candidate Starts for Grif_19:

(Start: 9 @12879 has 597 MA's), (13, 12903), (22, 12963), (25, 12981), (52, 13131), (66, 13212), (67, 13218), (74, 13236), (75, 13239),

Gene: Groundhog_13 Start: 11364, Stop: 11738, Start Num: 8

Candidate Starts for Groundhog_13:

(Start: 8 @11364 has 49 MA's), (37, 11532), (44, 11556), (46, 11568), (52, 11619), (61, 11676), (62, 11679), (66, 11700), (73, 11721), (74, 11724),

Gene: Groupthink_20 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Groupthink_20:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: Grub_19 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for Grub_19:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: Grum1_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for Grum1_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: Gruunaga_21 Start: 13452, Stop: 13829, Start Num: 9

Candidate Starts for Gruunaga_21:

(Start: 9 @13452 has 597 MA's), (14, 13479), (17, 13512), (18, 13515), (25, 13554), (50, 13695), (66, 13791), (74, 13815), (75, 13818),

Gene: GtownJaz_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for GtownJaz_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: GumGum_10 Start: 7340, Stop: 7699, Start Num: 9

Candidate Starts for GumGum_10:

(Start: 9 @7340 has 597 MA's), (24, 7439), (40, 7499), (43, 7511), (55, 7610), (56, 7625), (71, 7685),

Gene: Gwennie_18 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for Gwennie_18:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: HINdeR_17 Start: 14142, Stop: 14516, Start Num: 9

Candidate Starts for HINdeR_17:

(Start: 9 @14142 has 597 MA's), (25, 14244), (37, 14310), (38, 14313), (43, 14331), (44, 14334), (45, 14337), (52, 14397), (55, 14412), (58, 14433), (66, 14478), (74, 14502), (75, 14505),

Gene: HamSlice_16 Start: 12686, Stop: 13042, Start Num: 9

Candidate Starts for HamSlice_16:

(Start: 9 @12686 has 597 MA's), (25, 12788), (37, 12836), (43, 12857), (52, 12923), (58, 12959), (66, 13004), (75, 13031),

Gene: Hammer_21 Start: 13467, Stop: 13844, Start Num: 9

Candidate Starts for Hammer_21:

(Start: 9 @13467 has 597 MA's), (14, 13494), (17, 13527), (18, 13530), (25, 13569), (50, 13710), (66, 13806), (74, 13830), (75, 13833),

Gene: Hanray_18 Start: 14144, Stop: 14521, Start Num: 9

Candidate Starts for Hanray_18:

(Start: 9 @14144 has 597 MA's), (25, 14246), (63, 14465), (66, 14483), (67, 14489),

Gene: Happiness_17 Start: 12694, Stop: 13050, Start Num: 9

Candidate Starts for Happiness_17:

(Start: 9 @12694 has 597 MA's), (25, 12796), (37, 12844), (43, 12865), (52, 12931), (58, 12967), (66, 13012), (75, 13039),

Gene: Harlequin_14 Start: 8860, Stop: 9240, Start Num: 9

Candidate Starts for Harlequin_14:

(Start: 9 @8860 has 597 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (37, 9028), (52, 9115), (65, 9193), (66, 9199), (72, 9220),

Gene: HarryHoudini_20 Start: 13879, Stop: 14256, Start Num: 9

Candidate Starts for HarryHoudini_20:

(Start: 9 @13879 has 597 MA's), (14, 13906), (16, 13912), (18, 13942), (25, 13981), (31, 14011), (46, 14083), (66, 14218), (73, 14239), (74, 14242), (75, 14245),

Gene: HashRod_20 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for HashRod_20:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: HaveUMetTed_20 Start: 12864, Stop: 13235, Start Num: 9

Candidate Starts for HaveUMetTed_20:

(Start: 9 @12864 has 597 MA's), (13, 12888), (22, 12948), (25, 12966), (52, 13116), (66, 13197), (67, 13203), (74, 13221), (75, 13224),

Gene: Heathen_17 Start: 12144, Stop: 12518, Start Num: 9

Candidate Starts for Heathen_17:

(Start: 9 @12144 has 597 MA's), (25, 12246), (37, 12312), (43, 12333), (52, 12399), (66, 12480), (67, 12486), (74, 12504),

Gene: Heffalump_20 Start: 15198, Stop: 15575, Start Num: 9

Candidate Starts for Heffalump_20:

(Start: 9 @15198 has 597 MA's), (14, 15225), (16, 15231), (18, 15261), (25, 15300), (30, 15324), (46, 15402), (66, 15537), (67, 15543), (74, 15561),

Gene: HelDan_17 Start: 12396, Stop: 12770, Start Num: 9

Candidate Starts for HelDan_17:

(Start: 9 @12396 has 597 MA's), (25, 12498), (37, 12564), (43, 12585), (52, 12651), (66, 12732), (67, 12738), (74, 12756),

Gene: Heliosoles_19 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Heliosoles_19:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: Helmet_21 Start: 13480, Stop: 13857, Start Num: 9

Candidate Starts for Helmet_21:

(Start: 9 @13480 has 597 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (25, 13582), (66, 13819), (74, 13843), (75, 13846),

Gene: Herbertwm_15 Start: 12076, Stop: 12453, Start Num: 9

Candidate Starts for Herbertwm_15:

(5, 12052), (Start: 9 @12076 has 597 MA's), (14, 12103), (17, 12136), (18, 12139), (25, 12178), (46, 12280), (48, 12301), (51, 12325), (66, 12415), (67, 12421), (74, 12439),

Gene: Hercules11_19 Start: 12803, Stop: 13174, Start Num: 9

Candidate Starts for Hercules11_19:

(Start: 9 @12803 has 597 MA's), (13, 12827), (22, 12887), (25, 12905), (52, 13055), (66, 13136), (67, 13142), (74, 13160), (75, 13163),

Gene: Hestia_10 Start: 7405, Stop: 7764, Start Num: 9

Candidate Starts for Hestia_10:

(Start: 9 @7405 has 597 MA's), (14, 7432), (24, 7504), (40, 7564), (43, 7576), (55, 7675), (56, 7690), (71, 7750),

Gene: Hexamo_21 Start: 13434, Stop: 13811, Start Num: 9

Candidate Starts for Hexamo_21:

(Start: 9 @13434 has 597 MA's), (14, 13461), (16, 13467), (17, 13494), (18, 13497), (25, 13536), (50, 13677), (66, 13773), (74, 13797), (75, 13800),

Gene: Hillester_10 Start: 7292, Stop: 7648, Start Num: 9

Candidate Starts for Hillester_10:

(Start: 9 @7292 has 597 MA's), (10, 7298), (11, 7304), (12, 7307), (20, 7361), (23, 7388), (24, 7391), (40, 7451), (41, 7454), (43, 7463), (60, 7592), (63, 7607), (71, 7634),

Gene: HippoHollow_19 Start: 15138, Stop: 15515, Start Num: 9

Candidate Starts for HippoHollow_19:

(Start: 9 @15138 has 597 MA's), (14, 15165), (16, 15171), (18, 15201), (25, 15240), (32, 15276), (46, 15342), (57, 15426), (66, 15477), (67, 15483), (74, 15501), (75, 15504),

Gene: Hiro_14 Start: 8860, Stop: 9240, Start Num: 9

Candidate Starts for Hiro_14:

(Start: 9 @8860 has 597 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (37, 9028), (52, 9115), (65, 9193), (66, 9199), (72, 9220),

Gene: Horex_18 Start: 14144, Stop: 14521, Start Num: 9

Candidate Starts for Horex_18:

(Start: 9 @14144 has 597 MA's), (25, 14246), (63, 14465), (66, 14483), (67, 14489),

Gene: Holli_17 Start: 12478, Stop: 12834, Start Num: 9

Candidate Starts for Holli_17:

(Start: 9 @12478 has 597 MA's), (25, 12580), (37, 12628), (43, 12649), (52, 12715), (58, 12751), (66, 12796), (75, 12823),

Gene: Hookmount_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Hookmount_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Hoot_21 Start: 13463, Stop: 13840, Start Num: 9

Candidate Starts for Hoot_21:

(Start: 9 @13463 has 597 MA's), (14, 13490), (16, 13496), (17, 13523), (18, 13526), (25, 13565), (66, 13802), (74, 13826), (75, 13829),

Gene: HortumSL17_19 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for HortumSL17_19:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: Houdini22_17 Start: 12692, Stop: 13048, Start Num: 9

Candidate Starts for Houdini22_17:

(Start: 9 @12692 has 597 MA's), (25, 12794), (37, 12842), (43, 12863), (52, 12929), (58, 12965), (66, 13010), (75, 13037),

Gene: HuhtaEnerson15_14 Start: 11800, Stop: 12174, Start Num: 8

Candidate Starts for HuhtaEnerson15_14:

(Start: 8 @11800 has 49 MA's), (13, 11824), (15, 11830), (37, 11968), (44, 11992), (52, 12055), (62, 12115), (66, 12136), (73, 12157), (74, 12160), (75, 12163),

Gene: Hum25_8 Start: 6105, Stop: 6491, Start Num: 9

Candidate Starts for Hum25_8:

(Start: 9 @6105 has 597 MA's), (15, 6135), (40, 6282), (47, 6327), (58, 6411),

Gene: Hutc2_18 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Hutc2_18:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: Huxley_17 Start: 12752, Stop: 13108, Start Num: 9

Candidate Starts for Huxley_17:

(Start: 9 @12752 has 597 MA's), (25, 12854), (37, 12902), (43, 12923), (51, 12983), (52, 12989), (58, 13025), (66, 13070), (75, 13097),

Gene: ICleared_17 Start: 12686, Stop: 13042, Start Num: 9

Candidate Starts for ICleared_17:

(Start: 9 @12686 has 597 MA's), (25, 12788), (37, 12836), (43, 12857), (52, 12923), (58, 12959), (66, 13004), (75, 13031),

Gene: Iceman_18 Start: 12977, Stop: 13333, Start Num: 9

Candidate Starts for Iceman_18:

(Start: 9 @12977 has 597 MA's), (25, 13079), (37, 13127), (43, 13148), (52, 13214), (58, 13250), (66, 13295), (75, 13322),

Gene: Idleandcovert_17 Start: 12343, Stop: 12717, Start Num: 9

Candidate Starts for Idleandcovert_17:

(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: Indra_21 Start: 13479, Stop: 13856, Start Num: 9

Candidate Starts for Indra_21:

(Start: 9 @13479 has 597 MA's), (14, 13506), (16, 13512), (17, 13539), (18, 13542), (25, 13581), (50, 13722), (66, 13818), (74, 13842), (75, 13845),

Gene: Insomnia_18 Start: 13980, Stop: 14357, Start Num: 9

Candidate Starts for Insomnia_18:

(Start: 9 @13980 has 597 MA's), (13, 14004), (18, 14043), (25, 14082), (27, 14088), (73, 14340), (74, 14343), (75, 14346),

Gene: Iracema64_18 Start: 13000, Stop: 13356, Start Num: 9

Candidate Starts for Iracema64_18:

(Start: 9 @13000 has 597 MA's), (25, 13102), (37, 13150), (43, 13171), (52, 13237), (58, 13273), (66, 13318), (75, 13345),

Gene: IronMan_20 Start: 15064, Stop: 15441, Start Num: 9

Candidate Starts for IronMan_20:

(Start: 9 @15064 has 597 MA's), (17, 15124), (18, 15127), (25, 15166), (46, 15268), (59, 15358), (62, 15379), (66, 15403),

Gene: Isca_17 Start: 12231, Stop: 12605, Start Num: 9

Candidate Starts for Isca_17:

(Start: 9 @12231 has 597 MA's), (25, 12333), (37, 12399), (43, 12420), (52, 12486), (66, 12567), (67, 12573), (74, 12591),

Gene: Isiphiwo_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for Isiphiwo_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Isolde_11 Start: 7366, Stop: 7722, Start Num: 9

Candidate Starts for Isolde_11:

(Start: 9 @7366 has 597 MA's), (24, 7465), (26, 7471), (43, 7537), (60, 7666), (71, 7708),

Gene: Iwokeuplikedis_19 Start: 13349, Stop: 13726, Start Num: 9

Candidate Starts for Iwokeuplikedis_19:

(Start: 9 @13349 has 597 MA's), (14, 13376), (16, 13382), (18, 13412), (25, 13451), (31, 13481), (46, 13553), (66, 13688), (74, 13712), (75, 13715),

Gene: JF2_17 Start: 11996, Stop: 12370, Start Num: 9

Candidate Starts for JF2_17:

(Start: 9 @11996 has 597 MA's), (25, 12098), (37, 12164), (43, 12185), (52, 12251), (66, 12332), (67, 12338), (74, 12356),

Gene: JF4_17 Start: 11996, Stop: 12370, Start Num: 9

Candidate Starts for JF4_17:

(Start: 9 @11996 has 597 MA's), (25, 12098), (37, 12164), (43, 12185), (52, 12251), (66, 12332), (67, 12338), (74, 12356),

Gene: JHC117_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for JHC117_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: JSwag_20 Start: 12476, Stop: 12853, Start Num: 9

Candidate Starts for JSwag_20:

(Start: 9 @12476 has 597 MA's), (25, 12578), (44, 12668), (67, 12821), (74, 12839), (75, 12842),

Gene: Jaan_21 Start: 15462, Stop: 15839, Start Num: 9

Candidate Starts for Jaan_21:

(Start: 9 @15462 has 597 MA's), (17, 15522), (18, 15525), (25, 15564), (46, 15666), (59, 15756), (62, 15777), (66, 15801),

Gene: Jabiru_14 Start: 11689, Stop: 12063, Start Num: 8

Candidate Starts for Jabiru_14:

(Start: 8 @11689 has 49 MA's), (13, 11713), (15, 11719), (44, 11881), (52, 11944), (62, 12004), (66, 12025), (73, 12046), (74, 12049), (75, 12052),

Gene: Jabith_18 Start: 13980, Stop: 14357, Start Num: 9

Candidate Starts for Jabith_18:

(Start: 9 @13980 has 597 MA's), (13, 14004), (18, 14043), (25, 14082), (27, 14088), (73, 14340), (74, 14343), (75, 14346),

Gene: Jaykayelowell_17 Start: 12684, Stop: 13040, Start Num: 9

Candidate Starts for Jaykayelowell_17:

(Start: 9 @12684 has 597 MA's), (25, 12786), (37, 12834), (43, 12855), (52, 12921), (58, 12957), (66, 13002), (75, 13029),

Gene: Jeeves_17 Start: 12526, Stop: 12903, Start Num: 9

Candidate Starts for Jeeves_17:

(Start: 9 @12526 has 597 MA's), (16, 12559), (18, 12589), (25, 12628), (48, 12751), (73, 12886), (74, 12889), (75, 12892),

Gene: Jeffabunny_21 Start: 13486, Stop: 13863, Start Num: 9

Candidate Starts for Jeffabunny_21:

(Start: 9 @13486 has 597 MA's), (14, 13513), (17, 13546), (18, 13549), (25, 13588), (50, 13729), (66, 13825), (74, 13849), (75, 13852),

Gene: JellyBread_10 Start: 7288, Stop: 7644, Start Num: 9

Candidate Starts for JellyBread_10:

(Start: 9 @7288 has 597 MA's), (24, 7387), (26, 7393), (43, 7459), (60, 7588), (63, 7603), (71, 7630),

Gene: JenCasNa_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for JenCasNa_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: JeppNRM_20 Start: 12868, Stop: 13239, Start Num: 9

Candidate Starts for JeppNRM_20:

(Start: 9 @12868 has 597 MA's), (13, 12892), (22, 12952), (25, 12970), (52, 13120), (66, 13201), (67, 13207), (74, 13225), (75, 13228),

Gene: Jerm_20 Start: 13796, Stop: 14173, Start Num: 9

Candidate Starts for Jerm_20:

(Start: 9 @13796 has 597 MA's), (15, 13826), (16, 13829), (18, 13859), (25, 13898), (57, 14084), (66, 14135), (74, 14159), (75, 14162),

Gene: Jester_14 Start: 8860, Stop: 9240, Start Num: 9

Candidate Starts for Jester_14:

(Start: 9 @8860 has 597 MA's), (13, 8884), (20, 8929), (21, 8932), (33, 9001), (37, 9028), (52, 9115), (65, 9193), (66, 9199), (72, 9220),

Gene: JetBlade_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for JetBlade_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: JewelBug_21 Start: 13487, Stop: 13864, Start Num: 9

Candidate Starts for JewelBug_21:

(Start: 9 @13487 has 597 MA's), (14, 13514), (16, 13520), (17, 13547), (18, 13550), (25, 13589), (66, 13826), (74, 13850), (75, 13853),

Gene: Jiawan_18 Start: 14176, Stop: 14553, Start Num: 9

Candidate Starts for Jiawan_18:

(Start: 9 @14176 has 597 MA's), (25, 14278), (63, 14497), (66, 14515), (67, 14521),

Gene: Jobu08_19 Start: 12863, Stop: 13234, Start Num: 9

Candidate Starts for Jobu08_19:

(Start: 9 @12863 has 597 MA's), (13, 12887), (22, 12947), (25, 12965), (52, 13115), (66, 13196), (67, 13202), (74, 13220), (75, 13223),

Gene: JoongJeon_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for JoongJeon_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Jordennis_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for Jordennis_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Joselito_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Joselito_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: JoshKayV_20 Start: 13800, Stop: 14177, Start Num: 9

Candidate Starts for JoshKayV_20:

(Start: 9 @13800 has 597 MA's), (15, 13830), (16, 13833), (18, 13863), (25, 13902), (66, 14139), (67, 14145), (74, 14163), (75, 14166),

Gene: Journey13_16 Start: 12509, Stop: 12886, Start Num: 9

Candidate Starts for Journey13_16:

(Start: 9 @12509 has 597 MA's), (14, 12536), (16, 12542), (17, 12569), (18, 12572), (25, 12611), (46, 12713), (66, 12848), (73, 12869), (74, 12872), (75, 12875),

Gene: Jovo_14 Start: 11909, Stop: 12283, Start Num: 8

Candidate Starts for Jovo_14:

(Start: 8 @11909 has 49 MA's), (13, 11933), (15, 11939), (44, 12101), (52, 12164), (56, 12194), (62, 12224), (66, 12245), (73, 12266), (74, 12269), (75, 12272),

Gene: Jsquared_17 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for Jsquared_17:

(Start: 9 @12210 has 597 MA's), (14, 12237), (16, 12243), (17, 12270), (18, 12273), (25, 12312), (46, 12414), (66, 12549), (73, 12570), (74, 12573), (75, 12576),

Gene: KADY_20 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for KADY_20:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: KFPoly_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for KFPoly_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Kabloowy_10 Start: 7382, Stop: 7741, Start Num: 9

Candidate Starts for Kabloowy_10:

(Start: 9 @7382 has 597 MA's), (14, 7409), (24, 7481), (43, 7553), (55, 7652), (56, 7667), (71, 7727),

Gene: Kachowdy_17 Start: 12396, Stop: 12770, Start Num: 9

Candidate Starts for Kachowdy_17:

(Start: 9 @12396 has 597 MA's), (25, 12498), (37, 12564), (43, 12585), (52, 12651), (66, 12732), (67, 12738), (74, 12756),

Gene: Kalb97_20 Start: 12868, Stop: 13239, Start Num: 9

Candidate Starts for Kalb97_20:

(Start: 9 @12868 has 597 MA's), (13, 12892), (22, 12952), (25, 12970), (52, 13120), (66, 13201), (67, 13207), (74, 13225), (75, 13228),

Gene: Kalnoky_20 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Kalnoky_20:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: Kalpine_21 Start: 15159, Stop: 15536, Start Num: 9

Candidate Starts for Kalpine_21:

(Start: 9 @15159 has 597 MA's), (15, 15189), (18, 15222), (25, 15261), (32, 15297), (46, 15363), (66, 15498), (73, 15519), (74, 15522), (75, 15525),

Gene: Kamy_17 Start: 12686, Stop: 13042, Start Num: 9

Candidate Starts for Kamy_17:

(Start: 9 @12686 has 597 MA's), (25, 12788), (37, 12836), (43, 12857), (52, 12923), (58, 12959), (66, 13004), (75, 13031),

Gene: Katalie136_17 Start: 12690, Stop: 13046, Start Num: 9

Candidate Starts for Katalie136_17:

(Start: 9 @12690 has 597 MA's), (25, 12792), (37, 12840), (43, 12861), (52, 12927), (58, 12963), (70, 13020), (75, 13035),

Gene: KatherineG_20 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for KatherineG_20:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: Kazan_21 Start: 13490, Stop: 13867, Start Num: 9

Candidate Starts for Kazan_21:

(Start: 9 @13490 has 597 MA's), (14, 13517), (16, 13523), (17, 13550), (18, 13553), (25, 13592), (66, 13829), (74, 13853), (75, 13856),

Gene: KekoraPapaka_16 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for KekoraPapaka_16:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Kerberos_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for Kerberos_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: Keziacharles14_17 Start: 12278, Stop: 12655, Start Num: 9

Candidate Starts for Keziacharles14_17:

(Start: 9 @12278 has 597 MA's), (25, 12380), (31, 12410), (57, 12566), (63, 12599), (66, 12617), (67, 12623), (74, 12641), (75, 12644),

Gene: Kimba_18 Start: 13980, Stop: 14357, Start Num: 9

Candidate Starts for Kimba_18:

(Start: 9 @13980 has 597 MA's), (13, 14004), (18, 14043), (25, 14082), (27, 14088), (73, 14340), (74, 14343), (75, 14346),

Gene: Kimona_14 Start: 10155, Stop: 10529, Start Num: 9

Candidate Starts for Kimona_14:

(Start: 9 @10155 has 597 MA's), (35, 10314), (52, 10410), (67, 10497), (75, 10518),

Gene: KingCyrus_20 Start: 13771, Stop: 14148, Start Num: 9

Candidate Starts for KingCyrus_20:

(Start: 9 @13771 has 597 MA's), (15, 13801), (16, 13804), (18, 13834), (25, 13873), (46, 13975), (66, 14110), (67, 14116), (74, 14134), (75, 14137),

Gene: Kingmustik0402_17 Start: 12680, Stop: 13036, Start Num: 9

Candidate Starts for Kingmustik0402_17:

(Start: 9 @12680 has 597 MA's), (25, 12782), (37, 12830), (43, 12851), (52, 12917), (58, 12953), (66, 12998), (75, 13025),

Gene: Kinmap_17 Start: 13216, Stop: 13593, Start Num: 9

Candidate Starts for Kinmap_17:

(Start: 9 @13216 has 597 MA's), (14, 13243), (18, 13279), (25, 13318), (34, 13369), (46, 13420), (52, 13471), (57, 13504), (66, 13555), (73, 13576), (74, 13579), (75, 13582),

Gene: Kipper29_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for Kipper29_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: KittenMittens_16 Start: 10548, Stop: 10922, Start Num: 9

Candidate Starts for KittenMittens_16:

(Start: 9 @10548 has 597 MA's), (25, 10650), (37, 10716), (43, 10737), (45, 10743), (52, 10803), (58, 10839), (62, 10863), (75, 10911),

Gene: Klodlith_18 Start: 12322, Stop: 12699, Start Num: 9

Candidate Starts for Klodlith_18:

(Start: 9 @12322 has 597 MA's), (25, 12424), (34, 12475), (57, 12610), (63, 12643), (66, 12661), (74, 12685), (75, 12688),

Gene: Koan_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Koan_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Koduck_18 Start: 12551, Stop: 12928, Start Num: 9

Candidate Starts for Koduck_18:

(Start: 9 @12551 has 597 MA's), (14, 12578), (16, 12584), (17, 12611), (18, 12614), (25, 12653), (31, 12683), (46, 12755), (66, 12890), (73, 12911), (74, 12914), (75, 12917),

Gene: Koko_21 Start: 13478, Stop: 13855, Start Num: 9

Candidate Starts for Koko_21:

(Start: 9 @13478 has 597 MA's), (14, 13505), (17, 13538), (18, 13541), (25, 13580), (50, 13721), (66, 13817), (74, 13841), (75, 13844),

Gene: Koreni_16 Start: 12334, Stop: 12690, Start Num: 9

Candidate Starts for Koreni_16:

(Start: 9 @12334 has 597 MA's), (25, 12436), (37, 12484), (43, 12505), (52, 12571), (58, 12607), (66, 12652), (75, 12679),

Gene: Kratark_17 Start: 12683, Stop: 13039, Start Num: 9

Candidate Starts for Kratark_17:

(Start: 9 @12683 has 597 MA's), (25, 12785), (37, 12833), (43, 12854), (52, 12920), (58, 12956), (66, 13001), (75, 13028),

Gene: Kremtemulon_17 Start: 12736, Stop: 13092, Start Num: 9

Candidate Starts for Kremtemulon_17:

(Start: 9 @12736 has 597 MA's), (25, 12838), (37, 12886), (43, 12907), (52, 12973), (58, 13009), (66, 13054), (75, 13081),

Gene: Krishelle_14 Start: 8875, Stop: 9255, Start Num: 9

Candidate Starts for Krishelle_14:

(Start: 9 @8875 has 597 MA's), (13, 8899), (20, 8944), (21, 8947), (33, 9016), (37, 9043), (52, 9130), (65, 9208), (66, 9214), (72, 9235),

Gene: Kristoff_18 Start: 12631, Stop: 13005, Start Num: 9

Candidate Starts for Kristoff_18:

(Start: 9 @12631 has 597 MA's), (25, 12733), (37, 12799), (43, 12820), (52, 12886), (66, 12967), (67, 12973), (75, 12994),

Gene: Kugel_17 Start: 12889, Stop: 13311, Start Num: 4

Candidate Starts for Kugel_17:

(Start: 4 @12889 has 1 MA's), (Start: 7 @12934 has 5 MA's), (13, 12961), (25, 13039), (37, 13105), (44, 13129), (52, 13192), (61, 13249), (69, 13282), (73, 13294), (74, 13297), (75, 13300),

Gene: Kyee_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Kyee_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: Kykar_14 Start: 12431, Stop: 12808, Start Num: 7

Candidate Starts for Kykar_14:

(3, 12377), (Start: 4 @12386 has 1 MA's), (Start: 7 @12431 has 5 MA's), (13, 12458), (25, 12536), (37, 12602), (44, 12626), (52, 12689), (61, 12746), (69, 12779), (73, 12791), (74, 12794), (75, 12797),

Gene: L5_19 Start: 12559, Stop: 12936, Start Num: 9

Candidate Starts for L5_19:

(Start: 9 @12559 has 597 MA's), (14, 12586), (16, 12592), (17, 12619), (18, 12622), (25, 12661), (31, 12691), (46, 12763), (66, 12898), (73, 12919), (74, 12922), (75, 12925),

Gene: LBerry_19 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for LBerry_19:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: LHTSCC_18 Start: 13000, Stop: 13356, Start Num: 9

Candidate Starts for LHTSCC_18:

(Start: 9 @13000 has 597 MA's), (25, 13102), (37, 13150), (43, 13171), (52, 13237), (58, 13273), (66, 13318), (75, 13345),

Gene: LadyBird_18 Start: 13341, Stop: 13718, Start Num: 9

Candidate Starts for LadyBird_18:

(Start: 9 @13341 has 597 MA's), (15, 13371), (16, 13374), (18, 13404), (25, 13443), (46, 13545), (57, 13629), (66, 13680), (74, 13704), (75, 13707),

Gene: Lambert1_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Lambert1_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Landor_19 Start: 15114, Stop: 15491, Start Num: 9

Candidate Starts for Landor_19:

(Start: 9 @15114 has 597 MA's), (17, 15174), (18, 15177), (25, 15216), (46, 15318), (59, 15408), (62, 15429), (66, 15453),

Gene: LappelDuVide_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for LappelDuVide_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Larenn_19 Start: 13653, Stop: 14030, Start Num: 9

Candidate Starts for Larenn_19:

(Start: 9 @13653 has 597 MA's), (14, 13680), (18, 13716), (25, 13755), (31, 13785), (32, 13791), (46, 13857), (66, 13992), (73, 14013), (74, 14016), (75, 14019),

Gene: LarryKay_19 Start: 12882, Stop: 13253, Start Num: 9

Candidate Starts for LarryKay_19:

(Start: 9 @12882 has 597 MA's), (13, 12906), (22, 12966), (25, 12984), (52, 13134), (66, 13215), (67, 13221), (74, 13239), (75, 13242),

Gene: Lasker_10 Start: 7303, Stop: 7659, Start Num: 9

Candidate Starts for Lasker_10:

(Start: 9 @7303 has 597 MA's), (24, 7402), (26, 7408), (41, 7465), (43, 7474), (60, 7603), (71, 7645),

Gene: LastResort_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for LastResort_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Lawnathon_10 Start: 7413, Stop: 7772, Start Num: 9

Candidate Starts for Lawnathon_10:

(Start: 9 @7413 has 597 MA's), (14, 7440), (25, 7515), (40, 7572), (43, 7584), (55, 7683), (56, 7698), (71, 7758),

Gene: LeBruni_11 Start: 7318, Stop: 7674, Start Num: 9

Candidate Starts for LeBruni_11:

(Start: 9 @7318 has 597 MA's), (23, 7414), (24, 7417), (26, 7423), (40, 7477), (41, 7480), (43, 7489), (60, 7618), (71, 7660), (73, 7666),

Gene: Lemur_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Lemur_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: LeoAvram_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for LeoAvram_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Leogania_20 Start: 15518, Stop: 15895, Start Num: 9

Candidate Starts for Leogania_20:

(Start: 9 @15518 has 597 MA's), (14, 15545), (16, 15551), (18, 15581), (25, 15620), (31, 15650), (32, 15656), (46, 15722), (66, 15857), (74, 15881), (75, 15884),

Gene: Lev2_14 Start: 11621, Stop: 11995, Start Num: 8

Candidate Starts for Lev2_14:

(Start: 8 @11621 has 49 MA's), (13, 11645), (15, 11651), (44, 11813), (52, 11876), (56, 11906), (62, 11936), (66, 11957), (73, 11978), (74, 11981), (75, 11984),

Gene: Leviathan_20 Start: 13828, Stop: 14205, Start Num: 9

Candidate Starts for Leviathan_20:

(Start: 9 @13828 has 597 MA's), (15, 13858), (16, 13861), (18, 13891), (25, 13930), (57, 14116), (66, 14167), (74, 14191), (75, 14194),

Gene: LilTurb_20 Start: 13855, Stop: 14232, Start Num: 9

Candidate Starts for LilTurb_20:

(Start: 9 @13855 has 597 MA's), (15, 13885), (16, 13888), (18, 13918), (25, 13957), (57, 14143), (66, 14194), (74, 14218), (75, 14221),

Gene: Lilbunny_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for Lilbunny_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Lilit_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for Lilit_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: Lilleskat_17 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for Lilleskat_17:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: Lillie_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Lillie_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: LionsBait_19 Start: 15132, Stop: 15509, Start Num: 9

Candidate Starts for LionsBait_19:

(Start: 9 @15132 has 597 MA's), (14, 15159), (16, 15165), (18, 15195), (25, 15234), (46, 15336), (57, 15420), (66, 15471), (67, 15477), (74, 15495), (75, 15498),

Gene: LittleB_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for LittleB_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: LittleCherry_14 Start: 11801, Stop: 12175, Start Num: 8

Candidate Starts for LittleCherry_14:

(Start: 8 @11801 has 49 MA's), (13, 11825), (15, 11831), (37, 11969), (44, 11993), (52, 12056), (62, 12116), (66, 12137), (73, 12158), (74, 12161), (75, 12164),

Gene: LittleGuy_17 Start: 12631, Stop: 12987, Start Num: 9

Candidate Starts for LittleGuy_17:

(Start: 9 @12631 has 597 MA's), (25, 12733), (37, 12781), (43, 12802), (52, 12868), (58, 12904), (66, 12949), (75, 12976),

Gene: LochMonster_17 Start: 12663, Stop: 13019, Start Num: 9

Candidate Starts for LochMonster_17:

(Start: 9 @12663 has 597 MA's), (25, 12765), (37, 12813), (43, 12834), (52, 12900), (58, 12936), (66, 12981), (75, 13008),

Gene: Lokk_21 Start: 15047, Stop: 15424, Start Num: 9

Candidate Starts for Lokk_21:

(Start: 9 @15047 has 597 MA's), (14, 15074), (18, 15110), (25, 15149), (46, 15251), (57, 15335), (66, 15386), (67, 15392), (74, 15410), (75, 15413),

Gene: LoneWolf_19 Start: 13949, Stop: 14326, Start Num: 9

Candidate Starts for LoneWolf_19:

(Start: 9 @13949 has 597 MA's), (25, 14051), (34, 14102), (63, 14270), (66, 14288), (67, 14294), (74, 14312),

Gene: Looper_21 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for Looper_21:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Lorenzo_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Lorenzo_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Loser_21 Start: 15149, Stop: 15526, Start Num: 9

Candidate Starts for Loser_21:

(Start: 9 @15149 has 597 MA's), (13, 15173), (14, 15176), (18, 15212), (25, 15251), (46, 15353), (73, 15509), (74, 15512), (75, 15515),

Gene: Louie6_19 Start: 12883, Stop: 13254, Start Num: 9

Candidate Starts for Louie6_19:

(Start: 9 @12883 has 597 MA's), (13, 12907), (22, 12967), (25, 12985), (52, 13135), (66, 13216), (67, 13222), (74, 13240), (75, 13243),

Gene: Lowa_19 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for Lowa_19:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: Luchador_19 Start: 13710, Stop: 14087, Start Num: 9

Candidate Starts for Luchador_19:

(Start: 9 @13710 has 597 MA's), (16, 13743), (17, 13770), (18, 13773), (25, 13812), (48, 13935), (73, 14070), (74, 14073), (75, 14076),

Gene: Lucivia_18 Start: 13977, Stop: 14354, Start Num: 9

Candidate Starts for Lucivia_18:

(Start: 9 @13977 has 597 MA's), (13, 14001), (18, 14040), (25, 14079), (27, 14085), (73, 14337), (74, 14340), (75, 14343),

Gene: Lucyedi_19 Start: 13553, Stop: 13930, Start Num: 9

Candidate Starts for Lucyedi_19:

(2, 13448), (Start: 9 @13553 has 597 MA's), (14, 13580), (18, 13616), (20, 13622), (25, 13655), (53, 13811), (66, 13892), (67, 13898), (73, 13913), (75, 13919),

Gene: LugYA_21 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for LugYA_21:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Lunsford_18 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Lunsford_18:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: MA5_17 Start: 11940, Stop: 12314, Start Num: 9

Candidate Starts for MA5_17:

(Start: 9 @11940 has 597 MA's), (25, 12042), (37, 12108), (43, 12129), (52, 12195), (62, 12255), (66, 12276), (74, 12300),

Gene: MK4_17 Start: 12230, Stop: 12604, Start Num: 9

Candidate Starts for MK4_17:

(Start: 9 @12230 has 597 MA's), (25, 12332), (37, 12398), (43, 12419), (52, 12485), (66, 12566), (67, 12572), (74, 12590),

Gene: MUWow_9 Start: 7382, Stop: 7741, Start Num: 9

Candidate Starts for MUWow_9:

(Start: 9 @7382 has 597 MA's), (20, 7451), (29, 7499), (36, 7529), (43, 7553), (55, 7652), (71, 7727),

Gene: MaCh_18 Start: 13925, Stop: 14302, Start Num: 9

Candidate Starts for MaCh_18:

(Start: 9 @13925 has 597 MA's), (13, 13949), (18, 13988), (25, 14027), (27, 14033), (73, 14285), (74, 14288), (75, 14291),

Gene: Mabel_18 Start: 13992, Stop: 14369, Start Num: 9

Candidate Starts for Mabel_18:

(Start: 9 @13992 has 597 MA's), (13, 14016), (18, 14055), (25, 14094), (27, 14100), (73, 14352), (74, 14355), (75, 14358),

Gene: MadMarie_19 Start: 12798, Stop: 13169, Start Num: 9

Candidate Starts for MadMarie_19:

(Start: 9 @12798 has 597 MA's), (13, 12822), (22, 12882), (25, 12900), (52, 13050), (66, 13131), (67, 13137), (74, 13155), (75, 13158),

Gene: Mainiac_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for Mainiac_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: MajorMajor_17 Start: 12293, Stop: 12670, Start Num: 9

Candidate Starts for MajorMajor_17:

(Start: 9 @12293 has 597 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (25, 12395), (46, 12497), (66, 12632), (73, 12653), (74, 12656), (75, 12659),

Gene: Malec_19 Start: 13658, Stop: 14035, Start Num: 9

Candidate Starts for Malec_19:

(Start: 9 @13658 has 597 MA's), (14, 13685), (18, 13721), (25, 13760), (31, 13790), (32, 13796), (46, 13862), (66, 13997), (73, 14018), (74, 14021), (75, 14024),

Gene: Malinsilva_21 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for Malinsilva_21:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: Maminiaina_19 Start: 13873, Stop: 14250, Start Num: 9

Candidate Starts for Maminiaina_19:

(Start: 9 @13873 has 597 MA's), (14, 13900), (18, 13936), (25, 13975), (66, 14212), (67, 14218),

Gene: Manu_20 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Manu_20:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: Mapleville_10 Start: 7483, Stop: 7842, Start Num: 9

Candidate Starts for Mapleville_10:

(Start: 9 @7483 has 597 MA's), (14, 7510), (25, 7585), (40, 7642), (43, 7654), (55, 7753), (56, 7768), (71, 7828),

Gene: MarQuardt_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for MarQuardt_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: Marchesa_17 Start: 12394, Stop: 12768, Start Num: 9

Candidate Starts for Marchesa_17:

(Start: 9 @12394 has 597 MA's), (25, 12496), (37, 12562), (43, 12583), (52, 12649), (66, 12730), (67, 12736), (74, 12754),

Gene: Margo_18 Start: 12909, Stop: 13283, Start Num: 9

Candidate Starts for Margo_18:

(Start: 9 @12909 has 597 MA's), (13, 12933), (25, 13011), (37, 13077), (43, 13098), (52, 13164), (66, 13245), (74, 13269),

Gene: Marie_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Marie_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Marius_20 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Marius_20:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: MarysWell_13 Start: 11768, Stop: 12142, Start Num: 8

Candidate Starts for MarysWell_13:

(Start: 8 @11768 has 49 MA's), (13, 11792), (15, 11798), (37, 11936), (44, 11960), (52, 12023), (62, 12083), (66, 12104), (73, 12125), (74, 12128), (75, 12131),

Gene: MaterMagnus_10 Start: 7296, Stop: 7652, Start Num: 9

Candidate Starts for MaterMagnus_10:

(Start: 9 @7296 has 597 MA's), (20, 7365), (24, 7395), (26, 7401), (41, 7458), (43, 7467), (60, 7596), (71, 7638),

Gene: Maverick_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Maverick_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Maxo_17 Start: 12686, Stop: 13042, Start Num: 9

Candidate Starts for Maxo_17:

(Start: 9 @12686 has 597 MA's), (25, 12788), (37, 12836), (43, 12857), (52, 12923), (58, 12959), (66, 13004), (75, 13031),

Gene: Mayonnaise_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Mayonnaise_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Mazhar510_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Mazhar510_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: McFly_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for McFly_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: Medusa_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Medusa_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: MeeZee_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for MeeZee_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: MegTheThird_17 Start: 12310, Stop: 12687, Start Num: 9

Candidate Starts for MegTheThird_17:

(Start: 9 @12310 has 597 MA's), (20, 12379), (25, 12412), (57, 12598), (63, 12631), (66, 12649), (74, 12673), (75, 12676),

Gene: Melvin_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Melvin_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Methuselah_19 Start: 12879, Stop: 13250, Start Num: 9

Candidate Starts for Methuselah_19:

(Start: 9 @12879 has 597 MA's), (13, 12903), (22, 12963), (25, 12981), (52, 13131), (66, 13212), (67, 13218), (74, 13236), (75, 13239),

Gene: Micasa_14 Start: 11769, Stop: 12143, Start Num: 8

Candidate Starts for Micasa_14:

(Start: 8 @11769 has 49 MA's), (13, 11793), (15, 11799), (37, 11937), (44, 11961), (52, 12024), (62, 12084), (66, 12105), (73, 12126), (74, 12129), (75, 12132),

Gene: Microwolf_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for Microwolf_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: MiculUcigas_18 Start: 13422, Stop: 13799, Start Num: 9

Candidate Starts for MiculUcigas_18:

(Start: 9 @13422 has 597 MA's), (14, 13449), (16, 13455), (18, 13485), (25, 13524), (31, 13554), (46, 13626), (66, 13761), (73, 13782), (74, 13785), (75, 13788),

Gene: Midas2_14 Start: 11768, Stop: 12142, Start Num: 8

Candidate Starts for Midas2_14:

(Start: 8 @11768 has 49 MA's), (13, 11792), (15, 11798), (37, 11936), (44, 11960), (52, 12023), (62, 12083), (66, 12104), (73, 12125), (74, 12128), (75, 12131),

Gene: MidnightRain_10 Start: 7292, Stop: 7648, Start Num: 9

Candidate Starts for MidnightRain_10:

(Start: 9 @7292 has 597 MA's), (10, 7298), (11, 7304), (12, 7307), (20, 7361), (23, 7388), (24, 7391), (40, 7451), (41, 7454), (43, 7463), (60, 7592), (63, 7607), (71, 7634),

Gene: Miko_21 Start: 15016, Stop: 15393, Start Num: 9

Candidate Starts for Miko_21:

(Start: 9 @15016 has 597 MA's), (14, 15043), (18, 15079), (25, 15118), (46, 15220), (57, 15304), (66, 15355), (67, 15361), (74, 15379), (75, 15382),

Gene: Milcery_14 Start: 11805, Stop: 12179, Start Num: 8

Candidate Starts for Milcery_14:

(Start: 8 @11805 has 49 MA's), (13, 11829), (15, 11835), (37, 11973), (44, 11997), (52, 12060), (62, 12120), (66, 12141), (73, 12162), (74, 12165), (75, 12168),

Gene: Millski_17 Start: 12691, Stop: 13047, Start Num: 9

Candidate Starts for Millski_17:

(Start: 9 @12691 has 597 MA's), (25, 12793), (37, 12841), (43, 12862), (52, 12928), (58, 12964), (66, 13009), (75, 13036),

Gene: MinecraftSteve_21 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for MinecraftSteve_21:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: Minispark_16 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for Minispark_16:

(Start: 9 @12210 has 597 MA's), (25, 12312), (63, 12531), (66, 12549), (67, 12555), (74, 12573), (75, 12576),

Gene: Miramae_17 Start: 12636, Stop: 12992, Start Num: 9

Candidate Starts for Miramae_17:

(Start: 9 @12636 has 597 MA's), (25, 12738), (37, 12786), (43, 12807), (52, 12873), (58, 12909), (70, 12966), (75, 12981),

Gene: Misomonster_21 Start: 12879, Stop: 13250, Start Num: 9

Candidate Starts for Misomonster_21:

(Start: 9 @12879 has 597 MA's), (13, 12903), (22, 12963), (25, 12981), (52, 13131), (66, 13212), (67, 13218), (74, 13236), (75, 13239),

Gene: MissWhite_18 Start: 12457, Stop: 12834, Start Num: 9

Candidate Starts for MissWhite_18:

(Start: 9 @12457 has 597 MA's), (14, 12484), (18, 12520), (25, 12559), (46, 12661), (66, 12796), (73, 12817), (74, 12820), (75, 12823),

Gene: MoneyMay_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for MoneyMay_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Montavir_18 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for Montavir_18:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Morpher26_17 Start: 12690, Stop: 13046, Start Num: 9

Candidate Starts for Morpher26_17:

(Start: 9 @12690 has 597 MA's), (25, 12792), (37, 12840), (43, 12861), (52, 12927), (58, 12963), (70, 13020), (75, 13035),

Gene: Morrow_17 Start: 12691, Stop: 13047, Start Num: 9

Candidate Starts for Morrow_17:

(Start: 9 @12691 has 597 MA's), (25, 12793), (37, 12841), (43, 12862), (52, 12928), (58, 12964), (66, 13009), (75, 13036),

Gene: MuchMore_21 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for MuchMore_21:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: Mulciber_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Mulciber_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Munch_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Munch_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Mundrea_17 Start: 12656, Stop: 13012, Start Num: 9

Candidate Starts for Mundrea_17:

(Start: 9 @12656 has 597 MA's), (25, 12758), (37, 12806), (43, 12827), (44, 12830), (52, 12893), (58, 12929), (70, 12986), (75, 13001),

Gene: MurphyJoseph_10 Start: 7266, Stop: 7625, Start Num: 9

Candidate Starts for MurphyJoseph_10:

(Start: 9 @7266 has 597 MA's), (10, 7272), (11, 7278), (12, 7281), (14, 7293), (24, 7365), (40, 7425), (43, 7437), (55, 7536), (56, 7551), (71, 7611),

Gene: MyraDee_15 Start: 10885, Stop: 11268, Start Num: 9

Candidate Starts for MyraDee_15:

(Start: 9 @10885 has 597 MA's), (15, 10915), (35, 11053), (37, 11062), (52, 11149), (66, 11230), (73, 11251), (74, 11254), (75, 11257),

Gene: Myxus_19 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for Myxus_19:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: NaSiaTalie_18 Start: 13419, Stop: 13796, Start Num: 9

Candidate Starts for NaSiaTalie_18:

(Start: 9 @13419 has 597 MA's), (14, 13446), (16, 13452), (18, 13482), (25, 13521), (31, 13551), (46, 13623), (66, 13758), (73, 13779), (74, 13782), (75, 13785),

Gene: Naca_14 Start: 11722, Stop: 12096, Start Num: 8

Candidate Starts for Naca_14:

(Start: 8 @11722 has 49 MA's), (13, 11746), (15, 11752), (44, 11914), (52, 11977), (62, 12037), (66, 12058), (73, 12079), (74, 12082), (75, 12085),

Gene: Naiad_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Naiad_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Naji_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for Naji_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: Nancinator_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Nancinator_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Natosaleda_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Natosaleda_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: NearlyHeadless_14 Start: 11413, Stop: 11787, Start Num: 8

Candidate Starts for NearlyHeadless_14:

(Start: 8 @11413 has 49 MA's), (37, 11581), (44, 11605), (46, 11617), (52, 11668), (61, 11725), (62, 11728), (66, 11749), (73, 11770), (74, 11773),

Gene: Nebs_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Nebs_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Nebulosus_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for Nebulosus_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Nedarya_19 Start: 13079, Stop: 13456, Start Num: 9

Candidate Starts for Nedarya_19:

(Start: 9 @13079 has 597 MA's), (25, 13181), (62, 13394), (67, 13424), (74, 13442), (75, 13445),

Gene: Neeharika16_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for Neeharika16_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: Nemo27_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Nemo27_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (58, 12960), (66, 13005), (75, 13032),

Gene: NewKitty_11 Start: 7594, Stop: 7881, Start Num: 20

Candidate Starts for NewKitty_11:

(Start: 9 @7525 has 597 MA's), (20, 7594), (24, 7624), (41, 7687), (43, 7696), (60, 7825), (71, 7867),

Gene: Newrala_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for Newrala_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: NicoleTera_22 Start: 15133, Stop: 15510, Start Num: 9

Candidate Starts for NicoleTera_22:

(Start: 9 @15133 has 597 MA's), (14, 15160), (18, 15196), (25, 15235), (46, 15337), (55, 15403), (66, 15472), (74, 15496), (75, 15499),

Gene: Noella_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Noella_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Noelle_17 Start: 12742, Stop: 13098, Start Num: 9

Candidate Starts for Noelle_17:

(Start: 9 @12742 has 597 MA's), (25, 12844), (37, 12892), (43, 12913), (52, 12979), (58, 13015), (70, 13072), (75, 13087),

Gene: Norbert_17 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Norbert_17:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: NorthStar_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for NorthStar_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: NotAPhaseMom_17 Start: 12692, Stop: 13048, Start Num: 9

Candidate Starts for NotAPhaseMom_17:

(Start: 9 @12692 has 597 MA's), (25, 12794), (37, 12842), (43, 12863), (52, 12929), (58, 12965), (66, 13010), (75, 13037),

Gene: NothingSpecial_20 Start: 15386, Stop: 15766, Start Num: 9

Candidate Starts for NothingSpecial_20:

(Start: 9 @15386 has 597 MA's), (18, 15449), (25, 15488), (46, 15590), (56, 15671), (59, 15680), (62, 15701), (66, 15725), (74, 15749), (75, 15752),

Gene: Nyilah_9 Start: 7384, Stop: 7743, Start Num: 9

Candidate Starts for Nyilah_9:

(Start: 9 @7384 has 597 MA's), (11, 7396), (12, 7399), (14, 7411), (40, 7543), (43, 7555), (55, 7654), (56, 7669), (61, 7696), (71, 7729),

Gene: Nyxis_17 Start: 12631, Stop: 12987, Start Num: 9

Candidate Starts for Nyxis_17:

(Start: 9 @12631 has 597 MA's), (25, 12733), (37, 12781), (43, 12802), (52, 12868), (58, 12904), (66, 12949), (75, 12976),

Gene: OKCentral2016_17 Start: 12150, Stop: 12524, Start Num: 9

Candidate Starts for OKCentral2016_17:

(Start: 9 @12150 has 597 MA's), (25, 12252), (37, 12318), (43, 12339), (52, 12405), (58, 12441), (66, 12486), (67, 12492), (75, 12513),

Gene: OKaNui_18 Start: 12741, Stop: 13097, Start Num: 9

Candidate Starts for OKaNui_18:

(Start: 9 @12741 has 597 MA's), (25, 12843), (37, 12891), (43, 12912), (52, 12978), (58, 13014), (66, 13059), (75, 13086),

Gene: Obama12_18 Start: 13002, Stop: 13358, Start Num: 9

Candidate Starts for Obama12_18:

(Start: 9 @13002 has 597 MA's), (25, 13104), (37, 13152), (43, 13173), (52, 13239), (58, 13275), (66, 13320), (75, 13347),

Gene: Odin_17 Start: 12161, Stop: 12538, Start Num: 9

Candidate Starts for Odin_17:

(Start: 9 @12161 has 597 MA's), (14, 12188), (16, 12194), (18, 12224), (25, 12263), (66, 12500), (74, 12524), (75, 12527),

Gene: Ohfah_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Ohfah_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: OlanP_19 Start: 13050, Stop: 13421, Start Num: 9

Candidate Starts for OlanP_19:

(Start: 9 @13050 has 597 MA's), (13, 13074), (22, 13134), (25, 13152), (52, 13302), (66, 13383), (67, 13389), (74, 13407), (75, 13410),

Gene: Ollie_19 Start: 12667, Stop: 13038, Start Num: 9

Candidate Starts for Ollie_19:

(Start: 9 @12667 has 597 MA's), (13, 12691), (22, 12751), (25, 12769), (52, 12919), (66, 13000), (67, 13006), (74, 13024), (75, 13027),

Gene: Onglai_18 Start: 12474, Stop: 12851, Start Num: 9

Candidate Starts for Onglai_18:

(Start: 9 @12474 has 597 MA's), (25, 12576), (63, 12795), (66, 12813), (67, 12819),

Gene: Oofda_20 Start: 12461, Stop: 12838, Start Num: 9

Candidate Starts for Oofda_20:

(Start: 9 @12461 has 597 MA's), (25, 12563), (44, 12653), (67, 12806), (74, 12824), (75, 12827),

Gene: Orange_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Orange_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: P28Green_19 Start: 12795, Stop: 13166, Start Num: 9

Candidate Starts for P28Green_19:

(Start: 9 @12795 has 597 MA's), (13, 12819), (22, 12879), (25, 12897), (52, 13047), (66, 13128), (67, 13134), (74, 13152), (75, 13155),

Gene: PGHhamlin_21 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for PGHhamlin_21:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: PP_27 Start: 18548, Stop: 18922, Start Num: 9

Candidate Starts for PP_27:

(Start: 9 @18548 has 597 MA's), (25, 18650), (43, 18737), (52, 18803), (62, 18863), (66, 18884), (74, 18908), (75, 18911),

Gene: PackMan_19 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for PackMan_19:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: PainterBoy_19 Start: 13553, Stop: 13930, Start Num: 9

Candidate Starts for PainterBoy_19:

(2, 13448), (Start: 9 @13553 has 597 MA's), (14, 13580), (18, 13616), (20, 13622), (25, 13655), (53, 13811), (66, 13892), (67, 13898), (73, 13913), (75, 13919),

Gene: Palestino_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Palestino_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (56, 12955), (58, 12961), (66, 13006), (75, 13033),

Gene: Panamaxus_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Panamaxus_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Partridge_14 Start: 8943, Stop: 9323, Start Num: 9

Candidate Starts for Partridge_14:

(Start: 9 @8943 has 597 MA's), (13, 8967), (21, 9015), (33, 9084), (37, 9111), (52, 9198), (65, 9276), (66, 9282), (72, 9303),

Gene: Pawn_19 Start: 12870, Stop: 13241, Start Num: 9

Candidate Starts for Pawn_19:

(Start: 9 @12870 has 597 MA's), (13, 12894), (22, 12954), (25, 12972), (52, 13122), (66, 13203), (67, 13209), (74, 13227), (75, 13230),

Gene: PeaceMeal1_16 Start: 10549, Stop: 10923, Start Num: 9

Candidate Starts for PeaceMeal1_16:

(Start: 9 @10549 has 597 MA's), (25, 10651), (37, 10717), (43, 10738), (45, 10744), (52, 10804), (58, 10840), (62, 10864), (75, 10912),

Gene: Peaches_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Peaches_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (58, 12960), (66, 13005), (75, 13032),

Gene: Pembroke_19 Start: 12797, Stop: 13168, Start Num: 9

Candidate Starts for Pembroke_19:

(Start: 9 @12797 has 597 MA's), (13, 12821), (22, 12881), (25, 12899), (52, 13049), (66, 13130), (67, 13136), (74, 13154), (75, 13157),

Gene: Penny1_19 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for Penny1_19:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Perplexer_17 Start: 12684, Stop: 13040, Start Num: 9

Candidate Starts for Perplexer_17:

(Start: 9 @12684 has 597 MA's), (25, 12786), (37, 12834), (43, 12855), (52, 12921), (58, 12957), (70, 13014), (75, 13029),

Gene: Persistence_9 Start: 7363, Stop: 7719, Start Num: 9

Candidate Starts for Persistence_9:

(Start: 9 @7363 has 597 MA's), (10, 7369), (11, 7375), (12, 7378), (23, 7459), (37, 7513), (42, 7528), (43, 7534), (63, 7678), (71, 7705),

Gene: PeterPeter_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for PeterPeter_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Petersenfast_17 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Petersenfast_17:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: PetiteSangsue_17 Start: 12690, Stop: 13046, Start Num: 9

Candidate Starts for PetiteSangsue_17:

(Start: 9 @12690 has 597 MA's), (25, 12792), (37, 12840), (43, 12861), (52, 12927), (58, 12963), (70, 13020), (75, 13035),

Gene: PetterN_15 Start: 11609, Stop: 11983, Start Num: 8

Candidate Starts for PetterN_15:

(Start: 8 @11609 has 49 MA's), (13, 11633), (15, 11639), (44, 11801), (52, 11864), (62, 11924), (66, 11945), (73, 11966), (74, 11969), (75, 11972),

Gene: Ph8s_19 Start: 12120, Stop: 12497, Start Num: 9

Candidate Starts for Ph8s_19:

(Start: 9 @12120 has 597 MA's), (14, 12147), (16, 12153), (18, 12183), (25, 12222), (66, 12459), (74, 12483), (75, 12486),

Gene: Phacado_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Phacado_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (58, 12960), (66, 13005), (75, 13032),

Gene: Phaded_21 Start: 15461, Stop: 15838, Start Num: 9

Candidate Starts for Phaded_21:

(Start: 9 @15461 has 597 MA's), (17, 15521), (18, 15524), (25, 15563), (46, 15665), (59, 15755), (62, 15776), (66, 15800),

Gene: Phaeder_19 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for Phaeder_19:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: PhailMary_13 Start: 8926, Stop: 9306, Start Num: 9

Candidate Starts for PhailMary_13:

(Start: 9 @8926 has 597 MA's), (13, 8950), (20, 8995), (21, 8998), (33, 9067), (37, 9094), (52, 9181), (65, 9259), (66, 9265), (72, 9286),

Gene: Phantastic_17 Start: 12309, Stop: 12683, Start Num: 9

Candidate Starts for Phantastic_17:

(Start: 9 @12309 has 597 MA's), (25, 12411), (37, 12477), (43, 12498), (52, 12564), (66, 12645), (67, 12651), (74, 12669),

Gene: Pharaoh_18 Start: 13887, Stop: 14264, Start Num: 9

Candidate Starts for Pharaoh_18:

(Start: 9 @13887 has 597 MA's), (18, 13950), (25, 13989), (43, 14076), (46, 14091), (48, 14112), (66, 14226), (74, 14250),

Gene: Phelipe_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Phelipe_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Phighter1804_17 Start: 12666, Stop: 13022, Start Num: 9

Candidate Starts for Phighter1804_17:

(Start: 9 @12666 has 597 MA's), (25, 12768), (37, 12816), (43, 12837), (52, 12903), (58, 12939), (66, 12984), (75, 13011),

Gene: Phillis_14 Start: 11371, Stop: 11745, Start Num: 8

Candidate Starts for Phillis_14:

(Start: 8 @11371 has 49 MA's), (37, 11539), (44, 11563), (46, 11575), (52, 11626), (61, 11683), (62, 11686), (66, 11707), (73, 11728), (74, 11731),

Gene: PhishRPhriends_18 Start: 12055, Stop: 12426, Start Num: 9

Candidate Starts for PhishRPhriends_18:

(Start: 9 @12055 has 597 MA's), (13, 12079), (22, 12139), (25, 12157), (52, 12307), (66, 12388), (67, 12394), (74, 12412), (75, 12415),

Gene: Phlei_13 Start: 13995, Stop: 14369, Start Num: 9

Candidate Starts for Phlei_13:

(6, 13974), (Start: 9 @13995 has 597 MA's), (25, 14097), (43, 14181), (44, 14184), (66, 14331), (73, 14352), (75, 14358),

Gene: Phlorence_14 Start: 11908, Stop: 12282, Start Num: 8

Candidate Starts for Phlorence_14:

(Start: 8 @11908 has 49 MA's), (13, 11932), (15, 11938), (44, 12100), (52, 12163), (56, 12193), (62, 12223), (66, 12244), (73, 12265), (74, 12268), (75, 12271),

Gene: Phoebe_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Phoebe_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Phonnegut_19 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for Phonnegut_19:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: Phontbonne_17 Start: 12632, Stop: 12988, Start Num: 9

Candidate Starts for Phontbonne_17:

(Start: 9 @12632 has 597 MA's), (25, 12734), (37, 12782), (43, 12803), (52, 12869), (58, 12905), (66, 12950), (75, 12977),

Gene: Phoxy_19 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for Phoxy_19:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: Phrank15_9 Start: 7448, Stop: 7804, Start Num: 9

Candidate Starts for Phrank15_9:

(Start: 9 @7448 has 597 MA's), (20, 7517), (24, 7547), (26, 7553), (41, 7610), (43, 7619), (60, 7748), (71, 7790),

Gene: Phrankenstein_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Phrankenstein_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Phranny_20 Start: 12862, Stop: 13233, Start Num: 9

Candidate Starts for Phranny_20:

(Start: 9 @12862 has 597 MA's), (13, 12886), (22, 12946), (25, 12964), (52, 13114), (66, 13195), (67, 13201), (74, 13219), (75, 13222),

Gene: PickleBack_14 Start: 11622, Stop: 11996, Start Num: 8

Candidate Starts for PickleBack_14:

(Start: 8 @11622 has 49 MA's), (13, 11646), (15, 11652), (44, 11814), (52, 11877), (56, 11907), (62, 11937), (66, 11958), (73, 11979), (74, 11982), (75, 11985),

Gene: Pioneer_19 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for Pioneer_19:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: Pipcraft_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Pipcraft_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Piro94_19 Start: 13880, Stop: 14257, Start Num: 9

Candidate Starts for Piro94_19:

(Start: 9 @13880 has 597 MA's), (14, 13907), (16, 13913), (18, 13943), (25, 13982), (31, 14012), (46, 14084), (66, 14219), (73, 14240), (74, 14243), (75, 14246),

Gene: Pistachio_18 Start: 11890, Stop: 12264, Start Num: 9

Candidate Starts for Pistachio_18:

(Start: 9 @11890 has 597 MA's), (25, 11992), (37, 12058), (43, 12079), (52, 12145), (66, 12226), (67, 12232), (74, 12250),

Gene: Pmask_21 Start: 13476, Stop: 13853, Start Num: 9

Candidate Starts for Pmask_21:

(Start: 9 @13476 has 597 MA's), (14, 13503), (16, 13509), (17, 13536), (18, 13539), (25, 13578), (66, 13815), (74, 13839), (75, 13842),

Gene: Pocahontas_18 Start: 12881, Stop: 13255, Start Num: 9

Candidate Starts for Pocahontas_18:

(Start: 9 @12881 has 597 MA's), (13, 12905), (25, 12983), (37, 13049), (43, 13070), (52, 13136), (66, 13217), (74, 13241),

Gene: Polymorphads_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Polymorphads_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Polyphemus_21 Start: 13477, Stop: 13854, Start Num: 9

Candidate Starts for Polyphemus_21:

(Start: 9 @13477 has 597 MA's), (14, 13504), (16, 13510), (17, 13537), (18, 13540), (25, 13579), (66, 13816), (74, 13840), (75, 13843),

Gene: Pomar16_21 Start: 13313, Stop: 13687, Start Num: 9

Candidate Starts for Pomar16_21:

(Start: 9 @13313 has 597 MA's), (14, 13340), (16, 13346), (18, 13376), (25, 13415), (32, 13451), (44, 13502), (46, 13514), (62, 13625), (66, 13649), (74, 13673), (75, 13676),

Gene: Poompha_16 Start: 10547, Stop: 10921, Start Num: 9

Candidate Starts for Poompha_16:

(Start: 9 @10547 has 597 MA's), (25, 10649), (37, 10715), (43, 10736), (45, 10742), (52, 10802), (58, 10838), (62, 10862), (75, 10910),

Gene: Popcicle_18 Start: 12881, Stop: 13255, Start Num: 9

Candidate Starts for Popcicle_18:

(Start: 9 @12881 has 597 MA's), (13, 12905), (25, 12983), (37, 13049), (43, 13070), (52, 13136), (66, 13217), (74, 13241),

Gene: PotatoSplit_20 Start: 12796, Stop: 13167, Start Num: 9

Candidate Starts for PotatoSplit_20:

(Start: 9 @12796 has 597 MA's), (13, 12820), (22, 12880), (25, 12898), (52, 13048), (66, 13129), (67, 13135), (74, 13153), (75, 13156),

Gene: Power_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for Power_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: Priamo_21 Start: 13503, Stop: 13880, Start Num: 9

Candidate Starts for Priamo_21:

(Start: 9 @13503 has 597 MA's), (14, 13530), (16, 13536), (17, 13563), (18, 13566), (25, 13605), (66, 13842), (74, 13866), (75, 13869),

Gene: Prin Ashe11_15 Start: 11768, Stop: 12142, Start Num: 8

Candidate Starts for Prin Ashe11_15:

(Start: 8 @11768 has 49 MA's), (13, 11792), (15, 11798), (37, 11936), (44, 11960), (52, 12023), (62, 12083), (66, 12104), (73, 12125), (74, 12128), (75, 12131),

Gene: Priya_19 Start: 14171, Stop: 14548, Start Num: 9

Candidate Starts for Priya_19:

(Start: 9 @14171 has 597 MA's), (25, 14273), (63, 14492), (66, 14510), (67, 14516),

Gene: Prudy_20 Start: 15183, Stop: 15560, Start Num: 9

Candidate Starts for Prudy_20:

(Start: 9 @15183 has 597 MA's), (14, 15210), (15, 15213), (18, 15246), (25, 15285), (33, 15324), (46, 15387), (66, 15522), (74, 15546),

Gene: Pukovnik_20 Start: 15014, Stop: 15391, Start Num: 9

Candidate Starts for Pukovnik_20:

(Start: 9 @15014 has 597 MA's), (14, 15041), (18, 15077), (25, 15116), (59, 15308), (62, 15329), (66, 15353), (74, 15377), (75, 15380),

Gene: Pumbaa_17 Start: 12663, Stop: 13019, Start Num: 9

Candidate Starts for Pumbaa_17:

(Start: 9 @12663 has 597 MA's), (25, 12765), (37, 12813), (43, 12834), (52, 12900), (58, 12936), (66, 12981), (75, 13008),

Gene: Puppy_18 Start: 11962, Stop: 12336, Start Num: 9

Candidate Starts for Puppy_18:

(Start: 9 @11962 has 597 MA's), (25, 12064), (37, 12130), (43, 12151), (52, 12217), (66, 12298), (67, 12304), (74, 12322),

Gene: PurpleHaze_19 Start: 12869, Stop: 13240, Start Num: 9

Candidate Starts for PurpleHaze_19:

(Start: 9 @12869 has 597 MA's), (13, 12893), (22, 12953), (25, 12971), (52, 13121), (66, 13202), (67, 13208), (74, 13226), (75, 13229),

Gene: Qobbit_19 Start: 14170, Stop: 14547, Start Num: 9

Candidate Starts for Qobbit_19:

(Start: 9 @14170 has 597 MA's), (25, 14272), (63, 14491), (66, 14509), (67, 14515),

Gene: QueenB2_18 Start: 13396, Stop: 13773, Start Num: 9

Candidate Starts for QueenB2_18:

(Start: 9 @13396 has 597 MA's), (14, 13423), (16, 13429), (18, 13459), (25, 13498), (30, 13522), (46, 13600), (66, 13735), (74, 13759),

Gene: QueenBeesly_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for QueenBeesly_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: QuinnKiro_17 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for QuinnKiro_17:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Quokka_16 Start: 12293, Stop: 12670, Start Num: 9

Candidate Starts for Quokka_16:

(Start: 9 @12293 has 597 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (25, 12395), (46, 12497), (66, 12632), (73, 12653), (74, 12656), (75, 12659),

Gene: RER2_7 Start: 5788, Stop: 6168, Start Num: 9

Candidate Starts for RER2_7:

(Start: 9 @5788 has 597 MA's), (13, 5812), (21, 5860), (37, 5956), (46, 5992), (48, 6013), (52, 6043), (62, 6103), (65, 6121), (66, 6127), (72, 6148),

Gene: RGL3_7 Start: 5752, Stop: 6132, Start Num: 9

Candidate Starts for RGL3_7:

(Start: 9 @5752 has 597 MA's), (21, 5824), (40, 5929), (48, 5977), (52, 6007), (66, 6091),

Gene: Rachaly_21 Start: 15044, Stop: 15421, Start Num: 9

Candidate Starts for Rachaly_21:

(Start: 9 @15044 has 597 MA's), (14, 15071), (18, 15107), (25, 15146), (46, 15248), (57, 15332), (66, 15383), (67, 15389), (74, 15407), (75, 15410),

Gene: RadFad_10 Start: 7292, Stop: 7648, Start Num: 9

Candidate Starts for RadFad_10:

(Start: 9 @7292 has 597 MA's), (10, 7298), (11, 7304), (12, 7307), (20, 7361), (23, 7388), (24, 7391), (40, 7451), (41, 7454), (43, 7463), (60, 7592), (63, 7607), (71, 7634),

Gene: Rahalelujah_17 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for Rahalelujah_17:

(Start: 9 @12210 has 597 MA's), (25, 12312), (63, 12531), (66, 12549), (67, 12555), (74, 12573), (75, 12576),

Gene: Raphaella_10 Start: 7295, Stop: 7651, Start Num: 9

Candidate Starts for Raphaella_10:

(Start: 9 @7295 has 597 MA's), (24, 7394), (26, 7400), (43, 7466), (60, 7595), (63, 7610), (71, 7637),

Gene: Rasputin_14 Start: 8884, Stop: 9264, Start Num: 9

Candidate Starts for Rasputin_14:

(Start: 9 @8884 has 597 MA's), (13, 8908), (21, 8956), (33, 9025), (37, 9052), (46, 9088), (48, 9109), (52, 9139), (65, 9217), (66, 9223), (72, 9244),

Gene: Ravana_21 Start: 12451, Stop: 12828, Start Num: 9

Candidate Starts for Ravana_21:

(Start: 9 @12451 has 597 MA's), (25, 12553), (44, 12643), (67, 12796), (74, 12814), (75, 12817),

Gene: ReMo_20 Start: 12490, Stop: 12867, Start Num: 9

Candidate Starts for ReMo_20:

(Start: 9 @12490 has 597 MA's), (25, 12592), (44, 12682), (67, 12835), (74, 12853), (75, 12856),

Gene: Reba_20 Start: 12535, Stop: 12906, Start Num: 9

Candidate Starts for Reba_20:

(Start: 9 @12535 has 597 MA's), (13, 12559), (22, 12619), (25, 12637), (52, 12787), (66, 12868), (67, 12874), (74, 12892), (75, 12895),

Gene: Rebeuca_18 Start: 12632, Stop: 13006, Start Num: 9

Candidate Starts for Rebeuca_18:

(Start: 9 @12632 has 597 MA's), (25, 12734), (37, 12800), (43, 12821), (52, 12887), (66, 12968), (67, 12974), (75, 12995),

Gene: RedRock_21 Start: 15306, Stop: 15683, Start Num: 9

Candidate Starts for RedRock_21:

(Start: 9 @15306 has 597 MA's), (14, 15333), (18, 15369), (25, 15408), (46, 15510), (73, 15666), (74, 15669), (75, 15672),

Gene: Refuge_21 Start: 15689, Stop: 16066, Start Num: 9

Candidate Starts for Refuge_21:

(Start: 9 @15689 has 597 MA's), (15, 15719), (17, 15749), (18, 15752), (25, 15791), (31, 15821), (46, 15893), (48, 15914), (63, 16010), (66, 16028), (74, 16052),

Gene: Relief_17 Start: 12686, Stop: 13042, Start Num: 9

Candidate Starts for Relief_17:

(Start: 9 @12686 has 597 MA's), (25, 12788), (37, 12836), (43, 12857), (52, 12923), (58, 12959), (66, 13004), (75, 13031),

Gene: Remus_20 Start: 12451, Stop: 12828, Start Num: 9

Candidate Starts for Remus_20:

(Start: 9 @12451 has 597 MA's), (25, 12553), (44, 12643), (67, 12796), (74, 12814), (75, 12817),

Gene: ResDef_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for ResDef_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Retro23_18 Start: 13469, Stop: 13846, Start Num: 9

Candidate Starts for Retro23_18:

(Start: 9 @13469 has 597 MA's), (15, 13499), (16, 13502), (18, 13532), (25, 13571), (46, 13673), (66, 13808), (74, 13832), (75, 13835),

Gene: RexFury_14 Start: 8947, Stop: 9327, Start Num: 9

Candidate Starts for RexFury_14:

(Start: 9 @8947 has 597 MA's), (13, 8971), (21, 9019), (37, 9115), (46, 9151), (48, 9172), (52, 9202), (62, 9262), (65, 9280), (66, 9286), (72, 9307),

Gene: Rhodalysa_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Rhodalysa_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: RhynO_18 Start: 12608, Stop: 12982, Start Num: 9

Candidate Starts for RhynO_18:

(Start: 9 @12608 has 597 MA's), (20, 12677), (25, 12710), (43, 12797), (52, 12863), (66, 12944), (70, 12956), (75, 12971),

Gene: Richie_10 Start: 7310, Stop: 7666, Start Num: 9

Candidate Starts for Richie_10:

(Start: 9 @7310 has 597 MA's), (20, 7379), (24, 7409), (26, 7415), (41, 7472), (43, 7481), (60, 7610), (71, 7652),

Gene: Rifter_21 Start: 13451, Stop: 13828, Start Num: 9

Candidate Starts for Rifter_21:

(Start: 9 @13451 has 597 MA's), (14, 13478), (17, 13511), (18, 13514), (25, 13553), (50, 13694), (66, 13790), (74, 13814), (75, 13817),

Gene: Roary_14 Start: 11362, Stop: 11736, Start Num: 8

Candidate Starts for Roary_14:

(Start: 8 @11362 has 49 MA's), (37, 11530), (44, 11554), (46, 11566), (52, 11617), (61, 11674), (62, 11677), (66, 11698), (73, 11719), (74, 11722),

Gene: RockieBear_16 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for RockieBear_16:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Rockstar_17 Start: 12236, Stop: 12610, Start Num: 9

Candidate Starts for Rockstar_17:

(Start: 9 @12236 has 597 MA's), (25, 12338), (37, 12404), (43, 12425), (52, 12491), (66, 12572), (67, 12578), (74, 12596),

Gene: Roimos_17 Start: 12312, Stop: 12686, Start Num: 9

Candidate Starts for Roimos_17:

(Start: 9 @12312 has 597 MA's), (25, 12414), (37, 12480), (43, 12501), (52, 12567), (66, 12648), (67, 12654), (74, 12672),

Gene: Roksolana_21 Start: 13479, Stop: 13856, Start Num: 9

Candidate Starts for Roksolana_21:

(Start: 9 @13479 has 597 MA's), (14, 13506), (16, 13512), (17, 13539), (18, 13542), (25, 13581), (50, 13722), (66, 13818), (74, 13842), (75, 13845),

Gene: Romney_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Romney_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Roosevelt_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Roosevelt_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Rosa24_16 Start: 12661, Stop: 13017, Start Num: 9

Candidate Starts for Rosa24_16:

(Start: 9 @12661 has 597 MA's), (25, 12763), (37, 12811), (43, 12832), (52, 12898), (58, 12934), (66, 12979), (75, 13006),

Gene: Rosalind_20 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for Rosalind_20:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: Rowdy_20 Start: 12519, Stop: 12893, Start Num: 9

Candidate Starts for Rowdy_20:

(Start: 9 @12519 has 597 MA's), (20, 12588), (25, 12621), (43, 12708), (52, 12774), (66, 12855), (70, 12867), (75, 12882),

Gene: Ruin_17 Start: 12684, Stop: 13040, Start Num: 9

Candidate Starts for Ruin_17:

(Start: 9 @12684 has 597 MA's), (25, 12786), (37, 12834), (43, 12855), (52, 12921), (58, 12957), (66, 13002), (75, 13029),

Gene: Rummer_19 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for Rummer_19:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: RyeScarlet_20 Start: 14144, Stop: 14521, Start Num: 9

Candidate Starts for RyeScarlet_20:

(Start: 9 @14144 has 597 MA's), (25, 14246), (63, 14465), (66, 14483), (67, 14489),

Gene: Sabertooth_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Sabertooth_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Sabia_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for Sabia_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: Sabinator_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Sabinator_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Sachima_17 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for Sachima_17:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: Saintus_14 Start: 11377, Stop: 11751, Start Num: 8

Candidate Starts for Saintus_14:

(Start: 8 @11377 has 49 MA's), (37, 11545), (44, 11569), (46, 11581), (52, 11632), (61, 11689), (62, 11692), (66, 11713), (73, 11734), (74, 11737),

Gene: Sakai_10 Start: 7304, Stop: 7660, Start Num: 9

Candidate Starts for Sakai_10:

(Start: 9 @7304 has 597 MA's), (20, 7373), (24, 7403), (26, 7409), (41, 7466), (43, 7475), (60, 7604), (71, 7646),

Gene: Salz_18 Start: 13925, Stop: 14302, Start Num: 9

Candidate Starts for Salz_18:

(Start: 9 @13925 has 597 MA's), (13, 13949), (18, 13988), (25, 14027), (27, 14033), (73, 14285), (74, 14288), (75, 14291),

Gene: Sashimi_11 Start: 7410, Stop: 7766, Start Num: 9

Candidate Starts for Sashimi_11:

(Start: 9 @7410 has 597 MA's), (14, 7437), (26, 7515), (41, 7572), (43, 7581), (54, 7662), (60, 7710), (61, 7716), (63, 7725), (71, 7752),

Gene: Saskia_17 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Saskia_17:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Satrap_10 Start: 7247, Stop: 7603, Start Num: 9

Candidate Starts for Satrap_10:

(Start: 9 @7247 has 597 MA's), (11, 7259), (24, 7346), (37, 7397), (42, 7412), (43, 7418), (63, 7562), (71, 7589),

Gene: SaturnRing_17 Start: 12343, Stop: 12717, Start Num: 9
Candidate Starts for SaturnRing_17:
(Start: 9 @12343 has 597 MA's), (25, 12445), (37, 12511), (43, 12532), (52, 12598), (66, 12679), (67, 12685), (74, 12703),

Gene: Scamp_17 Start: 12688, Stop: 13044, Start Num: 9
Candidate Starts for Scamp_17:
(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Scherzo_19 Start: 14173, Stop: 14550, Start Num: 9
Candidate Starts for Scherzo_19:
(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: Scorpio_15 Start: 11610, Stop: 11984, Start Num: 8
Candidate Starts for Scorpio_15:
(Start: 8 @11610 has 49 MA's), (13, 11634), (15, 11640), (44, 11802), (52, 11865), (61, 11922), (62, 11925), (73, 11967), (74, 11970), (75, 11973),

Gene: Scout_17 Start: 11643, Stop: 12017, Start Num: 9
Candidate Starts for Scout_17:
(Start: 9 @11643 has 597 MA's), (25, 11745), (37, 11811), (43, 11832), (52, 11898), (66, 11979), (67, 11985), (74, 12003),

Gene: Seahorse_11 Start: 7514, Stop: 7873, Start Num: 9
Candidate Starts for Seahorse_11:
(Start: 9 @7514 has 597 MA's), (14, 7541), (24, 7613), (40, 7673), (43, 7685), (55, 7784), (56, 7799), (71, 7859),

Gene: SemperFi_20 Start: 13746, Stop: 14123, Start Num: 9
Candidate Starts for SemperFi_20:
(Start: 9 @13746 has 597 MA's), (15, 13776), (16, 13779), (18, 13809), (25, 13848), (46, 13950), (66, 14085), (67, 14091), (74, 14109),

Gene: SenorClean_17 Start: 12688, Stop: 13044, Start Num: 9
Candidate Starts for SenorClean_17:
(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Serenity_17 Start: 12293, Stop: 12670, Start Num: 9
Candidate Starts for Serenity_17:
(Start: 9 @12293 has 597 MA's), (14, 12320), (16, 12326), (17, 12353), (18, 12356), (25, 12395), (46, 12497), (66, 12632), (73, 12653), (74, 12656), (75, 12659),

Gene: Severus_16 Start: 10547, Stop: 10921, Start Num: 9
Candidate Starts for Severus_16:
(Start: 9 @10547 has 597 MA's), (25, 10649), (37, 10715), (43, 10736), (45, 10742), (52, 10802), (58, 10838), (62, 10862), (75, 10910),

Gene: Shaka_17 Start: 12688, Stop: 13044, Start Num: 9
Candidate Starts for Shaka_17:
(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Sham4_18 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Sham4_18:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: Shapes_20 Start: 12519, Stop: 12893, Start Num: 9

Candidate Starts for Shapes_20:

(Start: 9 @12519 has 597 MA's), (20, 12588), (25, 12621), (43, 12708), (52, 12774), (66, 12855), (70, 12867), (75, 12882),

Gene: ShayRa_21 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for ShayRa_21:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: SheaKeira_18 Start: 12349, Stop: 12726, Start Num: 9

Candidate Starts for SheaKeira_18:

(Start: 9 @12349 has 597 MA's), (25, 12451), (31, 12481), (57, 12637), (63, 12670), (66, 12688), (74, 12712), (75, 12715),

Gene: Sheen_19 Start: 14394, Stop: 14768, Start Num: 9

Candidate Starts for Sheen_19:

(Start: 9 @14394 has 597 MA's), (25, 14496), (37, 14562), (39, 14568), (43, 14583), (52, 14649), (58, 14685), (66, 14730), (67, 14736), (74, 14754),

Gene: SheldonCooper_18 Start: 13001, Stop: 13357, Start Num: 9

Candidate Starts for SheldonCooper_18:

(Start: 9 @13001 has 597 MA's), (25, 13103), (37, 13151), (43, 13172), (52, 13238), (58, 13274), (66, 13319), (75, 13346),

Gene: Shukran_10 Start: 7247, Stop: 7603, Start Num: 9

Candidate Starts for Shukran_10:

(Start: 9 @7247 has 597 MA's), (11, 7259), (24, 7346), (37, 7397), (42, 7412), (43, 7418), (63, 7562), (71, 7589),

Gene: Shuman_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Shuman_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (33, 9057), (37, 9084), (52, 9171), (65, 9249), (66, 9255), (72, 9276),

Gene: Shygu2_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Shygu2_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (70, 13015), (75, 13030),

Gene: Skipitt_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Skipitt_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Sknot_18 Start: 13422, Stop: 13799, Start Num: 9

Candidate Starts for Sknot_18:

(Start: 9 @13422 has 597 MA's), (14, 13449), (16, 13455), (18, 13485), (25, 13524), (31, 13554), (46, 13626), (66, 13761), (73, 13782), (74, 13785), (75, 13788),

Gene: Smeadley_14 Start: 11395, Stop: 11769, Start Num: 8

Candidate Starts for Smeadley_14:

(Start: 8 @11395 has 49 MA's), (37, 11563), (44, 11587), (46, 11599), (52, 11650), (61, 11707), (62, 11710), (66, 11731), (73, 11752), (74, 11755),

Gene: Smeagan_20 Start: 13831, Stop: 14208, Start Num: 9

Candidate Starts for Smeagan_20:

(Start: 9 @13831 has 597 MA's), (15, 13861), (16, 13864), (18, 13894), (25, 13933), (57, 14119), (66, 14170), (74, 14194), (75, 14197),

Gene: SmellyB_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for SmellyB_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: SnapTap_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for SnapTap_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: Snape_18 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Snape_18:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: Snickers_19 Start: 12770, Stop: 13141, Start Num: 9

Candidate Starts for Snickers_19:

(Start: 9 @12770 has 597 MA's), (13, 12794), (22, 12854), (25, 12872), (52, 13022), (66, 13103), (67, 13109), (74, 13127), (75, 13130),

Gene: SoYo_19 Start: 12707, Stop: 13078, Start Num: 9

Candidate Starts for SoYo_19:

(Start: 9 @12707 has 597 MA's), (13, 12731), (22, 12791), (25, 12809), (52, 12959), (66, 13040), (67, 13046), (74, 13064), (75, 13067),

Gene: SoilDragon_19 Start: 12479, Stop: 12850, Start Num: 9

Candidate Starts for SoilDragon_19:

(Start: 9 @12479 has 597 MA's), (13, 12503), (22, 12563), (25, 12581), (52, 12731), (66, 12812), (67, 12818), (74, 12836), (75, 12839),

Gene: SonDevVon_9 Start: 7297, Stop: 7653, Start Num: 9

Candidate Starts for SonDevVon_9:

(Start: 9 @7297 has 597 MA's), (20, 7366), (24, 7396), (26, 7402), (41, 7459), (43, 7468), (60, 7597), (71, 7639),

Gene: SororFago_17 Start: 12501, Stop: 12881, Start Num: 7

Candidate Starts for SororFago_17:

(Start: 7 @12501 has 5 MA's), (16, 12537), (17, 12564), (18, 12567), (25, 12606), (48, 12729), (74, 12867), (75, 12870),

Gene: Soshari_21 Start: 12879, Stop: 13250, Start Num: 9

Candidate Starts for Soshari_21:

(Start: 9 @12879 has 597 MA's), (13, 12903), (22, 12963), (25, 12981), (52, 13131), (66, 13212), (67, 13218), (74, 13236), (75, 13239),

Gene: Soups_20 Start: 12612, Stop: 12989, Start Num: 9

Candidate Starts for Soups_20:

(Start: 9 @12612 has 597 MA's), (25, 12714), (44, 12804), (67, 12957), (74, 12975), (75, 12978),

Gene: Sparxx_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for Sparxx_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: SpicyFrank_10 Start: 7358, Stop: 7714, Start Num: 9

Candidate Starts for SpicyFrank_10:

(Start: 9 @7358 has 597 MA's), (20, 7427), (24, 7457), (26, 7463), (41, 7520), (43, 7529), (60, 7658), (71, 7700),

Gene: Spike509_19 Start: 12880, Stop: 13251, Start Num: 9

Candidate Starts for Spike509_19:

(Start: 9 @12880 has 597 MA's), (13, 12904), (22, 12964), (25, 12982), (52, 13132), (66, 13213), (67, 13219), (74, 13237), (75, 13240),

Gene: Spino_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Spino_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Sporco_11 Start: 7346, Stop: 7705, Start Num: 9

Candidate Starts for Sporco_11:

(Start: 9 @7346 has 597 MA's), (20, 7415), (29, 7463), (43, 7517), (55, 7616), (60, 7652), (71, 7691),

Gene: Spouty_19 Start: 14170, Stop: 14547, Start Num: 9

Candidate Starts for Spouty_19:

(Start: 9 @14170 has 597 MA's), (25, 14272), (63, 14491), (66, 14509), (67, 14515),

Gene: StCroix_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for StCroix_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Stagni_19 Start: 12798, Stop: 13169, Start Num: 9

Candidate Starts for Stagni_19:

(Start: 9 @12798 has 597 MA's), (13, 12822), (22, 12882), (25, 12900), (52, 13050), (66, 13131), (67, 13137), (74, 13155), (75, 13158),

Gene: StarStuff_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for StarStuff_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: Stasia_18 Start: 13124, Stop: 13480, Start Num: 9

Candidate Starts for Stasia_18:

(Start: 9 @13124 has 597 MA's), (25, 13226), (37, 13274), (43, 13295), (52, 13361), (58, 13397), (70, 13454), (75, 13469),

Gene: SteMason_16 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for SteMason_16:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Steamy_19 Start: 13919, Stop: 14296, Start Num: 9

Candidate Starts for Steamy_19:

(Start: 9 @13919 has 597 MA's), (15, 13949), (17, 13979), (18, 13982), (25, 14021), (31, 14051), (43, 14108), (46, 14123), (63, 14240), (66, 14258), (67, 14264), (74, 14282), (75, 14285),

Gene: StepMih_19 Start: 12789, Stop: 13160, Start Num: 9

Candidate Starts for StepMih_19:

(Start: 9 @12789 has 597 MA's), (13, 12813), (22, 12873), (25, 12891), (52, 13041), (66, 13122), (67, 13128), (74, 13146), (75, 13149),

Gene: Stephig9_14 Start: 11376, Stop: 11750, Start Num: 8

Candidate Starts for Stephig9_14:

(Start: 8 @11376 has 49 MA's), (37, 11544), (44, 11568), (46, 11580), (52, 11631), (61, 11688), (62, 11691), (66, 11712), (73, 11733), (74, 11736),

Gene: Stink_18 Start: 12973, Stop: 13329, Start Num: 9

Candidate Starts for Stink_18:

(Start: 9 @12973 has 597 MA's), (25, 13075), (37, 13123), (43, 13144), (52, 13210), (58, 13246), (70, 13303), (75, 13318),

Gene: Strosahl_20 Start: 12451, Stop: 12828, Start Num: 9

Candidate Starts for Strosahl_20:

(Start: 9 @12451 has 597 MA's), (25, 12553), (44, 12643), (67, 12796), (74, 12814), (75, 12817),

Gene: Sultana_17 Start: 12689, Stop: 13045, Start Num: 9

Candidate Starts for Sultana_17:

(Start: 9 @12689 has 597 MA's), (25, 12791), (37, 12839), (43, 12860), (52, 12926), (58, 12962), (66, 13007), (75, 13034),

Gene: Sunhee_16 Start: 12538, Stop: 12915, Start Num: 9

Candidate Starts for Sunhee_16:

(Start: 9 @12538 has 597 MA's), (16, 12571), (17, 12598), (18, 12601), (25, 12640), (48, 12763), (74, 12901), (75, 12904),

Gene: SuperAwesome_21 Start: 13475, Stop: 13852, Start Num: 9

Candidate Starts for SuperAwesome_21:

(Start: 9 @13475 has 597 MA's), (14, 13502), (16, 13508), (17, 13535), (18, 13538), (25, 13577), (66, 13814), (74, 13838), (75, 13841),

Gene: SuperCallie99_21 Start: 13474, Stop: 13851, Start Num: 9

Candidate Starts for SuperCallie99_21:

(Start: 9 @13474 has 597 MA's), (14, 13501), (17, 13534), (18, 13537), (25, 13576), (50, 13717), (66, 13813), (74, 13837), (75, 13840),

Gene: Superchunk_17 Start: 12019, Stop: 12396, Start Num: 9

Candidate Starts for Superchunk_17:

(Start: 9 @12019 has 597 MA's), (14, 12046), (16, 12052), (18, 12082), (25, 12121), (66, 12358), (74, 12382), (75, 12385),

Gene: Swann_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for Swann_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: SweetiePie_18 Start: 13318, Stop: 13695, Start Num: 9

Candidate Starts for SweetiePie_18:

(Start: 9 @13318 has 597 MA's), (15, 13348), (16, 13351), (18, 13381), (25, 13420), (46, 13522), (66, 13657), (67, 13663), (74, 13681),

Gene: SwirlSquare_20 Start: 12198, Stop: 12575, Start Num: 9

Candidate Starts for SwirlSquare_20:

(Start: 9 @12198 has 597 MA's), (14, 12225), (18, 12261), (25, 12300), (46, 12402), (62, 12513), (66, 12537), (74, 12561), (75, 12564),

Gene: Swirley_14 Start: 11770, Stop: 12144, Start Num: 8

Candidate Starts for Swirley_14:

(Start: 8 @11770 has 49 MA's), (13, 11794), (15, 11800), (37, 11938), (44, 11962), (52, 12025), (62, 12085), (66, 12106), (73, 12127), (74, 12130), (75, 12133),

Gene: Switzerland_20 Start: 12605, Stop: 12982, Start Num: 9

Candidate Starts for Switzerland_20:

(Start: 9 @12605 has 597 MA's), (25, 12707), (44, 12797), (67, 12950), (74, 12968), (75, 12971),

Gene: SydNat_14 Start: 11877, Stop: 12251, Start Num: 8

Candidate Starts for SydNat_14:

(Start: 8 @11877 has 49 MA's), (13, 11901), (15, 11907), (44, 12069), (52, 12132), (56, 12162), (62, 12192), (66, 12213), (73, 12234), (74, 12237), (75, 12240),

Gene: TNguyen7_17 Start: 12313, Stop: 12687, Start Num: 9

Candidate Starts for TNguyen7_17:

(Start: 9 @12313 has 597 MA's), (25, 12415), (37, 12481), (43, 12502), (52, 12568), (66, 12649), (67, 12655), (74, 12673),

Gene: TWAMP_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for TWAMP_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Tailonex_15 Start: 12099, Stop: 12488, Start Num: 9

Candidate Starts for Tailonex_15:

(Start: 9 @12099 has 597 MA's), (24, 12198), (30, 12225), (52, 12354), (68, 12447), (73, 12459),

Gene: Takoda_14 Start: 8876, Stop: 9256, Start Num: 9

Candidate Starts for Takoda_14:

(Start: 9 @8876 has 597 MA's), (13, 8900), (21, 8948), (33, 9017), (37, 9044), (52, 9131), (65, 9209), (66, 9215), (72, 9236),

Gene: Taquarus_17 Start: 12691, Stop: 13047, Start Num: 9

Candidate Starts for Taquarus_17:

(Start: 9 @12691 has 597 MA's), (25, 12793), (37, 12841), (43, 12862), (52, 12928), (58, 12964), (66, 13009), (75, 13036),

Gene: Target_18 Start: 13654, Stop: 14031, Start Num: 7

Candidate Starts for Target_18:

(Start: 4 @13609 has 1 MA's), (Start: 7 @13654 has 5 MA's), (13, 13681), (25, 13759), (37, 13825), (44, 13849), (52, 13912), (61, 13969), (69, 14002), (73, 14014), (74, 14017), (75, 14020),

Gene: TarsusIV_18 Start: 13418, Stop: 13795, Start Num: 9

Candidate Starts for TarsusIV_18:

(Start: 9 @13418 has 597 MA's), (14, 13445), (18, 13481), (25, 13520), (46, 13622), (57, 13706), (63, 13739), (66, 13757), (74, 13781), (75, 13784),

Gene: Tarynearal_13 Start: 11797, Stop: 12171, Start Num: 8

Candidate Starts for Tarynearal_13:

(Start: 8 @11797 has 49 MA's), (13, 11821), (15, 11827), (37, 11965), (44, 11989), (52, 12052), (62, 12112), (66, 12133), (73, 12154), (74, 12157), (75, 12160),

Gene: Taurus_19 Start: 12794, Stop: 13165, Start Num: 9

Candidate Starts for Taurus_19:

(Start: 9 @12794 has 597 MA's), (13, 12818), (22, 12878), (25, 12896), (52, 13046), (66, 13127), (67, 13133), (74, 13151), (75, 13154),

Gene: Temprado_21 Start: 13480, Stop: 13857, Start Num: 9

Candidate Starts for Temprado_21:

(Start: 9 @13480 has 597 MA's), (14, 13507), (16, 13513), (17, 13540), (18, 13543), (25, 13582), (66, 13819), (74, 13843), (75, 13846),

Gene: Terrific_22 Start: 13876, Stop: 14253, Start Num: 9

Candidate Starts for Terrific_22:

(Start: 9 @13876 has 597 MA's), (14, 13903), (16, 13909), (18, 13939), (25, 13978), (31, 14008), (46, 14080), (66, 14215), (73, 14236), (74, 14239), (75, 14242),

Gene: Texage_17 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Texage_17:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Thanksgivukkah_17 Start: 12692, Stop: 13048, Start Num: 9

Candidate Starts for Thanksgivukkah_17:

(Start: 9 @12692 has 597 MA's), (25, 12794), (37, 12842), (43, 12863), (52, 12929), (58, 12965), (66, 13010), (75, 13037),

Gene: ThayneTheZag_10 Start: 7332, Stop: 7688, Start Num: 9

Candidate Starts for ThayneTheZag_10:

(Start: 9 @7332 has 597 MA's), (23, 7428), (24, 7431), (26, 7437), (41, 7494), (43, 7503), (60, 7632), (71, 7674),

Gene: Theia_13 Start: 11736, Stop: 12110, Start Num: 8

Candidate Starts for Theia_13:

(Start: 8 @11736 has 49 MA's), (13, 11760), (15, 11766), (37, 11904), (44, 11928), (52, 11991), (62, 12051), (66, 12072), (73, 12093), (74, 12096), (75, 12099),

Gene: Tiff81_11 Start: 7472, Stop: 7831, Start Num: 9

Candidate Starts for Tiff81_11:

(Start: 9 @7472 has 597 MA's), (11, 7484), (12, 7487), (14, 7499), (40, 7631), (43, 7643), (55, 7742), (56, 7757), (61, 7784), (71, 7817),

Gene: Tiffany_19 Start: 12690, Stop: 13061, Start Num: 9

Candidate Starts for Tiffany_19:

(Start: 9 @12690 has 597 MA's), (13, 12714), (22, 12774), (25, 12792), (52, 12942), (66, 13023), (67, 13029), (74, 13047), (75, 13050),

Gene: Tiger_14 Start: 11623, Stop: 11997, Start Num: 8

Candidate Starts for Tiger_14:

(Start: 8 @11623 has 49 MA's), (13, 11647), (15, 11653), (37, 11791), (44, 11815), (52, 11878), (62, 11938), (66, 11959), (73, 11980), (74, 11983), (75, 11986),

Gene: Timothy_18 Start: 13928, Stop: 14305, Start Num: 9

Candidate Starts for Timothy_18:

(Start: 9 @13928 has 597 MA's), (13, 13952), (18, 13991), (25, 14030), (27, 14036), (73, 14288), (74, 14291), (75, 14294),

Gene: Timshel_18 Start: 14276, Stop: 14650, Start Num: 9

Candidate Starts for Timshel_18:

(Start: 9 @14276 has 597 MA's), (25, 14378), (37, 14444), (38, 14447), (43, 14465), (44, 14468), (45, 14471), (52, 14531), (55, 14546), (66, 14612), (70, 14624), (74, 14636), (75, 14639),

Gene: TinaFeyge_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for TinaFeyge_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: TinyPebbles_19 Start: 12879, Stop: 13250, Start Num: 9

Candidate Starts for TinyPebbles_19:

(Start: 9 @12879 has 597 MA's), (13, 12903), (22, 12963), (25, 12981), (52, 13131), (66, 13212), (67, 13218), (74, 13236), (75, 13239),

Gene: TinyTimmy_18 Start: 13971, Stop: 14348, Start Num: 9

Candidate Starts for TinyTimmy_18:

(Start: 9 @13971 has 597 MA's), (13, 13995), (18, 14034), (25, 14073), (27, 14079), (73, 14331), (74, 14334), (75, 14337),

Gene: Tinybot_16 Start: 12666, Stop: 13022, Start Num: 9

Candidate Starts for Tinybot_16:

(Start: 9 @12666 has 597 MA's), (25, 12768), (37, 12816), (43, 12837), (52, 12903), (58, 12939), (66, 12984), (75, 13011),

Gene: TipsytheTRex_17 Start: 12428, Stop: 12805, Start Num: 9

Candidate Starts for TipsytheTRex_17:

(Start: 9 @12428 has 597 MA's), (14, 12455), (16, 12461), (17, 12488), (18, 12491), (25, 12530), (46, 12632), (66, 12767), (73, 12788), (74, 12791), (75, 12794),

Gene: TiroTheta9_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for TiroTheta9_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Toaka_17 Start: 12502, Stop: 12879, Start Num: 9

Candidate Starts for Toaka_17:

(Start: 9 @12502 has 597 MA's), (14, 12529), (18, 12565), (25, 12604), (66, 12841), (75, 12868),

Gene: Todacoro_18 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Todacoro_18:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Tomathan_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for Tomathan_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: ToneTone_19 Start: 13392, Stop: 13769, Start Num: 9

Candidate Starts for ToneTone_19:

(Start: 9 @13392 has 597 MA's), (14, 13419), (16, 13425), (17, 13452), (18, 13455), (25, 13494), (66, 13731), (74, 13755), (75, 13758),

Gene: Topanga_17 Start: 12585, Stop: 12959, Start Num: 9

Candidate Starts for Topanga_17:

(Start: 9 @12585 has 597 MA's), (25, 12687), (37, 12753), (43, 12774), (52, 12840), (58, 12876), (66, 12921), (75, 12948),

Gene: Toro_20 Start: 14336, Stop: 14710, Start Num: 9

Candidate Starts for Toro_20:

(Start: 9 @14336 has 597 MA's), (25, 14438), (37, 14504), (39, 14510), (43, 14525), (52, 14591), (58, 14627), (66, 14672), (67, 14678), (74, 14696),

Gene: Travvers_21 Start: 13272, Stop: 13646, Start Num: 9

Candidate Starts for Travvers_21:

(Start: 9 @13272 has 597 MA's), (14, 13299), (16, 13305), (18, 13335), (25, 13374), (32, 13410), (44, 13461), (46, 13473), (62, 13584), (66, 13608), (74, 13632), (75, 13635),

Gene: Trike_15 Start: 10555, Stop: 10929, Start Num: 9

Candidate Starts for Trike_15:

(Start: 9 @10555 has 597 MA's), (25, 10657), (37, 10723), (43, 10744), (45, 10750), (52, 10810), (58, 10846), (62, 10870), (66, 10891), (75, 10918),

Gene: Tristan_19 Start: 15133, Stop: 15510, Start Num: 9

Candidate Starts for Tristan_19:

(Start: 9 @15133 has 597 MA's), (17, 15193), (18, 15196), (25, 15235), (46, 15337), (59, 15427), (62, 15448), (66, 15472),

Gene: Trixie_21 Start: 15031, Stop: 15408, Start Num: 9

Candidate Starts for Trixie_21:

(Start: 9 @15031 has 597 MA's), (14, 15058), (15, 15061), (16, 15064), (18, 15094), (25, 15133), (32, 15169), (46, 15235), (57, 15319), (66, 15370), (67, 15376), (74, 15394),

Gene: Trooper_18 Start: 13209, Stop: 13586, Start Num: 9

Candidate Starts for Trooper_18:

(Start: 9 @13209 has 597 MA's), (14, 13236), (16, 13242), (18, 13272), (25, 13311), (31, 13341), (37, 13377), (46, 13413), (57, 13497), (66, 13548), (74, 13572), (75, 13575),

Gene: TroyPia_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for TroyPia_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Tubs_19 Start: 14140, Stop: 14517, Start Num: 9

Candidate Starts for Tubs_19:

(Start: 9 @14140 has 597 MA's), (25, 14242), (63, 14461), (66, 14479), (67, 14485),

Gene: Tucker_21 Start: 13478, Stop: 13855, Start Num: 9

Candidate Starts for Tucker_21:

(Start: 9 @13478 has 597 MA's), (14, 13505), (17, 13538), (18, 13541), (25, 13580), (50, 13721), (66, 13817), (74, 13841), (75, 13844),

Gene: Turbido_20 Start: 13858, Stop: 14235, Start Num: 9

Candidate Starts for Turbido_20:

(Start: 9 @13858 has 597 MA's), (15, 13888), (16, 13891), (18, 13921), (25, 13960), (57, 14146), (66, 14197), (74, 14221), (75, 14224),

Gene: Twigg_14 Start: 11769, Stop: 12143, Start Num: 8

Candidate Starts for Twigg_14:

(Start: 8 @11769 has 49 MA's), (13, 11793), (15, 11799), (37, 11937), (44, 11961), (52, 12024), (62, 12084), (66, 12105), (73, 12126), (74, 12129), (75, 12132),

Gene: Twister_17 Start: 12484, Stop: 12858, Start Num: 9

Candidate Starts for Twister_17:

(Start: 9 @12484 has 597 MA's), (25, 12586), (37, 12652), (43, 12673), (52, 12739), (58, 12775), (66, 12820), (67, 12826), (75, 12847),

Gene: TygerBlood_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for TygerBlood_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (58, 12960), (66, 13005), (75, 13032),

Gene: Ugenie5_16 Start: 14173, Stop: 14550, Start Num: 9

Candidate Starts for Ugenie5_16:

(Start: 9 @14173 has 597 MA's), (25, 14275), (63, 14494), (66, 14512), (67, 14518),

Gene: UhSalsa_14 Start: 8916, Stop: 9296, Start Num: 9

Candidate Starts for UhSalsa_14:

(Start: 9 @8916 has 597 MA's), (13, 8940), (21, 8988), (37, 9084), (46, 9120), (48, 9141), (52, 9171), (62, 9231), (65, 9249), (66, 9255), (72, 9276),

Gene: Ulysses_16 Start: 12409, Stop: 12765, Start Num: 9

Candidate Starts for Ulysses_16:

(Start: 9 @12409 has 597 MA's), (25, 12511), (37, 12559), (43, 12580), (52, 12646), (58, 12682), (66, 12727), (75, 12754),

Gene: UnionJack_14 Start: 11349, Stop: 11723, Start Num: 8

Candidate Starts for UnionJack_14:

(Start: 8 @11349 has 49 MA's), (13, 11373), (15, 11379), (44, 11541), (52, 11604), (61, 11661), (62, 11664), (66, 11685), (73, 11706), (74, 11709), (75, 11712),

Gene: Updawg_20 Start: 13864, Stop: 14241, Start Num: 9

Candidate Starts for Updawg_20:

(Start: 9 @13864 has 597 MA's), (14, 13891), (16, 13897), (18, 13927), (25, 13966), (31, 13996), (46, 14068), (66, 14203), (73, 14224), (74, 14227), (75, 14230),

Gene: VA6_18 Start: 13376, Stop: 13753, Start Num: 9

Candidate Starts for VA6_18:

(Start: 9 @13376 has 597 MA's), (15, 13406), (16, 13409), (18, 13439), (25, 13478), (66, 13715), (74, 13739), (75, 13742),

Gene: VC3_21 Start: 13381, Stop: 13758, Start Num: 9

Candidate Starts for VC3_21:

(Start: 9 @13381 has 597 MA's), (14, 13408), (16, 13414), (18, 13444), (25, 13483), (35, 13540), (46, 13585), (50, 13624), (56, 13666), (66, 13720), (73, 13741), (74, 13744), (75, 13747),

Gene: Vanisoa_17 Start: 12228, Stop: 12605, Start Num: 9

Candidate Starts for Vanisoa_17:

(Start: 9 @12228 has 597 MA's), (17, 12288), (25, 12330), (63, 12549), (66, 12567), (67, 12573), (74, 12591), (75, 12594),

Gene: Veracruz_17 Start: 12884, Stop: 13258, Start Num: 9

Candidate Starts for Veracruz_17:

(Start: 9 @12884 has 597 MA's), (13, 12908), (25, 12986), (37, 13052), (43, 13073), (52, 13139), (66, 13220), (74, 13244),

Gene: Vix_19 Start: 12878, Stop: 13249, Start Num: 9

Candidate Starts for Vix_19:

(Start: 9 @12878 has 597 MA's), (13, 12902), (22, 12962), (25, 12980), (52, 13130), (66, 13211), (67, 13217), (74, 13235), (75, 13238),

Gene: VohminGhazi_21 Start: 13484, Stop: 13861, Start Num: 9

Candidate Starts for VohminGhazi_21:

(Start: 9 @13484 has 597 MA's), (14, 13511), (16, 13517), (17, 13544), (18, 13547), (25, 13586), (66, 13823), (74, 13847), (75, 13850),

Gene: Vopal_11 Start: 7436, Stop: 7723, Start Num: 20

Candidate Starts for Vopal_11:

(Start: 9 @7367 has 597 MA's), (20, 7436), (24, 7466), (26, 7472), (41, 7529), (43, 7538), (60, 7667), (71, 7709),

Gene: Waits_20 Start: 12457, Stop: 12834, Start Num: 9

Candidate Starts for Waits_20:

(Start: 9 @12457 has 597 MA's), (25, 12559), (44, 12649), (67, 12802), (74, 12820), (75, 12823),

Gene: WalterMcMickey_17 Start: 12484, Stop: 12858, Start Num: 9

Candidate Starts for WalterMcMickey_17:

(Start: 9 @12484 has 597 MA's), (25, 12586), (37, 12652), (43, 12673), (52, 12739), (58, 12775), (66, 12820), (67, 12826), (75, 12847),

Gene: Wander_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Wander_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Warrior24_20 Start: 12461, Stop: 12838, Start Num: 9

Candidate Starts for Warrior24_20:

(Start: 9 @12461 has 597 MA's), (25, 12563), (44, 12653), (67, 12806), (74, 12824), (75, 12827),

Gene: Watson_19 Start: 12788, Stop: 13159, Start Num: 9

Candidate Starts for Watson_19:

(Start: 9 @12788 has 597 MA's), (13, 12812), (22, 12872), (25, 12890), (52, 13040), (66, 13121), (67, 13127), (74, 13145), (75, 13148),

Gene: WeiHuaDA_24 Start: 15633, Stop: 16010, Start Num: 9

Candidate Starts for WeiHuaDA_24:

(Start: 9 @15633 has 597 MA's), (14, 15660), (15, 15663), (18, 15696), (25, 15735), (46, 15837), (66, 15972), (73, 15993), (74, 15996), (75, 15999),

Gene: Whabigail7_20 Start: 13846, Stop: 14223, Start Num: 9

Candidate Starts for Whabigail7_20:

(Start: 9 @13846 has 597 MA's), (15, 13876), (16, 13879), (18, 13909), (25, 13948), (57, 14134), (66, 14185), (74, 14209), (75, 14212),

Gene: Whitspit_17 Start: 13496, Stop: 13873, Start Num: 7

Candidate Starts for Whitspit_17:

(Start: 4 @13451 has 1 MA's), (Start: 7 @13496 has 5 MA's), (13, 13523), (25, 13601), (37, 13667), (44, 13691), (52, 13754), (61, 13811), (69, 13844), (73, 13856), (74, 13859), (75, 13862),

Gene: WideWale_20 Start: 13864, Stop: 14241, Start Num: 9

Candidate Starts for WideWale_20:

(Start: 9 @13864 has 597 MA's), (14, 13891), (16, 13897), (18, 13927), (25, 13966), (31, 13996), (46, 14068), (66, 14203), (73, 14224), (74, 14227), (75, 14230),

Gene: Wiks_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for Wiks_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Wilbur_17 Start: 12688, Stop: 13044, Start Num: 9

Candidate Starts for Wilbur_17:

(Start: 9 @12688 has 597 MA's), (25, 12790), (37, 12838), (43, 12859), (52, 12925), (58, 12961), (66, 13006), (75, 13033),

Gene: Wile_17 Start: 12700, Stop: 13056, Start Num: 9

Candidate Starts for Wile_17:

(Start: 9 @12700 has 597 MA's), (25, 12802), (37, 12850), (43, 12871), (52, 12937), (56, 12967), (58, 12973), (66, 13018), (75, 13045),

Gene: Windest_11 Start: 7352, Stop: 7708, Start Num: 9

Candidate Starts for Windest_11:

(Start: 9 @7352 has 597 MA's), (24, 7451), (26, 7457), (43, 7523), (60, 7652), (63, 7667), (71, 7694),

Gene: Wizard007_17 Start: 12690, Stop: 13046, Start Num: 9

Candidate Starts for Wizard007_17:

(Start: 9 @12690 has 597 MA's), (25, 12792), (37, 12840), (43, 12861), (52, 12927), (58, 12963), (66, 13008), (75, 13035),

Gene: Wolpertinger_17 Start: 13931, Stop: 14308, Start Num: 9

Candidate Starts for Wolpertinger_17:

(Start: 9 @13931 has 597 MA's), (13, 13955), (18, 13994), (25, 14033), (27, 14039), (73, 14291), (74, 14294), (75, 14297),

Gene: Wooldri_21 Start: 12707, Stop: 13078, Start Num: 9

Candidate Starts for Wooldri_21:

(Start: 9 @12707 has 597 MA's), (13, 12731), (22, 12791), (25, 12809), (52, 12959), (66, 13040), (67, 13046), (74, 13064), (75, 13067),

Gene: WorldCup_16 Start: 12210, Stop: 12587, Start Num: 9

Candidate Starts for WorldCup_16:

(Start: 9 @12210 has 597 MA's), (25, 12312), (63, 12531), (66, 12549), (67, 12555), (74, 12573), (75, 12576),

Gene: WunderPhul_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for WunderPhul_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Xena_17 Start: 12687, Stop: 13043, Start Num: 9

Candidate Starts for Xena_17:

(Start: 9 @12687 has 597 MA's), (25, 12789), (37, 12837), (43, 12858), (52, 12924), (56, 12954), (58, 12960), (66, 13005), (75, 13032),

Gene: XianYue_18 Start: 13337, Stop: 13714, Start Num: 9

Candidate Starts for XianYue_18:

(1, 13130), (Start: 9 @13337 has 597 MA's), (15, 13367), (16, 13370), (18, 13400), (25, 13439), (33, 13478), (66, 13676), (67, 13682), (74, 13700), (75, 13703),

Gene: Yecey3_18 Start: 12264, Stop: 12641, Start Num: 9

Candidate Starts for Yecey3_18:

(Start: 9 @12264 has 597 MA's), (14, 12291), (18, 12327), (25, 12366), (66, 12603), (74, 12627), (75, 12630),

Gene: YoSam321_17 Start: 12685, Stop: 13041, Start Num: 9

Candidate Starts for YoSam321_17:

(Start: 9 @12685 has 597 MA's), (25, 12787), (37, 12835), (43, 12856), (52, 12922), (58, 12958), (66, 13003), (75, 13030),

Gene: Yogi_14 Start: 8884, Stop: 9264, Start Num: 9

Candidate Starts for Yogi_14:

(Start: 9 @8884 has 597 MA's), (13, 8908), (21, 8956), (33, 9025), (46, 9088), (52, 9139), (65, 9217), (66, 9223), (72, 9244),

Gene: Yokurt_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for Yokurt_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Yoncess_14 Start: 8884, Stop: 9264, Start Num: 9

Candidate Starts for Yoncess_14:

(Start: 9 @8884 has 597 MA's), (13, 8908), (21, 8956), (33, 9025), (37, 9052), (52, 9139), (65, 9217), (66, 9223), (72, 9244),

Gene: YoungHarleezy_10 Start: 7308, Stop: 7664, Start Num: 9

Candidate Starts for YoungHarleezy_10:

(Start: 9 @7308 has 597 MA's), (20, 7377), (24, 7407), (26, 7413), (41, 7470), (43, 7479), (60, 7608), (71, 7650),

Gene: Zaka_21 Start: 13460, Stop: 13837, Start Num: 9

Candidate Starts for Zaka_21:

(Start: 9 @13460 has 597 MA's), (14, 13487), (16, 13493), (17, 13520), (18, 13523), (25, 13562), (66, 13799), (74, 13823), (75, 13826),

Gene: Zarafa_17 Start: 12405, Stop: 12779, Start Num: 9

Candidate Starts for Zarafa_17:

(Start: 9 @12405 has 597 MA's), (25, 12507), (37, 12573), (43, 12594), (52, 12660), (66, 12741), (67, 12747), (74, 12765),

Gene: Zetzy_18 Start: 12328, Stop: 12699, Start Num: 9

Candidate Starts for Zetzy_18:

(Start: 9 @12328 has 597 MA's), (13, 12352), (22, 12412), (25, 12430), (52, 12580), (66, 12661), (74, 12685), (75, 12688),

Gene: Zimmer_20 Start: 14945, Stop: 15322, Start Num: 9

Candidate Starts for Zimmer_20:

(Start: 9 @14945 has 597 MA's), (14, 14972), (15, 14975), (18, 15008), (25, 15047), (31, 15077), (43, 15134), (46, 15149), (48, 15170), (66, 15284), (74, 15308), (75, 15311),

Gene: Zolita_13 Start: 11878, Stop: 12252, Start Num: 8

Candidate Starts for Zolita_13:

(Start: 8 @11878 has 49 MA's), (13, 11902), (15, 11908), (44, 12070), (52, 12133), (56, 12163), (62, 12193), (66, 12214), (73, 12235), (74, 12238), (75, 12241),

Gene: Zulu_21 Start: 13459, Stop: 13836, Start Num: 9

Candidate Starts for Zulu_21:

(Start: 9 @13459 has 597 MA's), (14, 13486), (16, 13492), (17, 13519), (18, 13522), (25, 13561), (66, 13798), (74, 13822), (75, 13825),