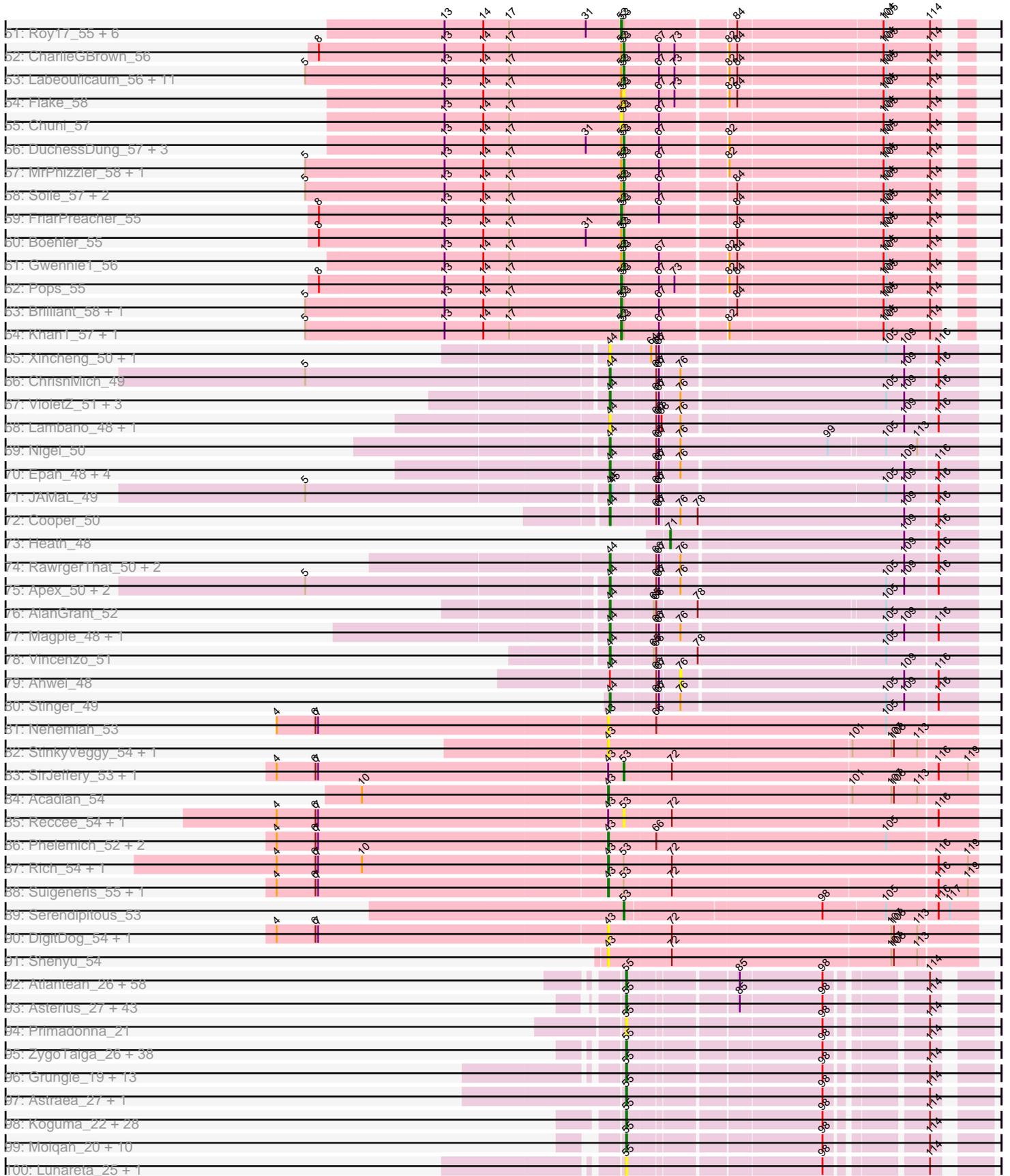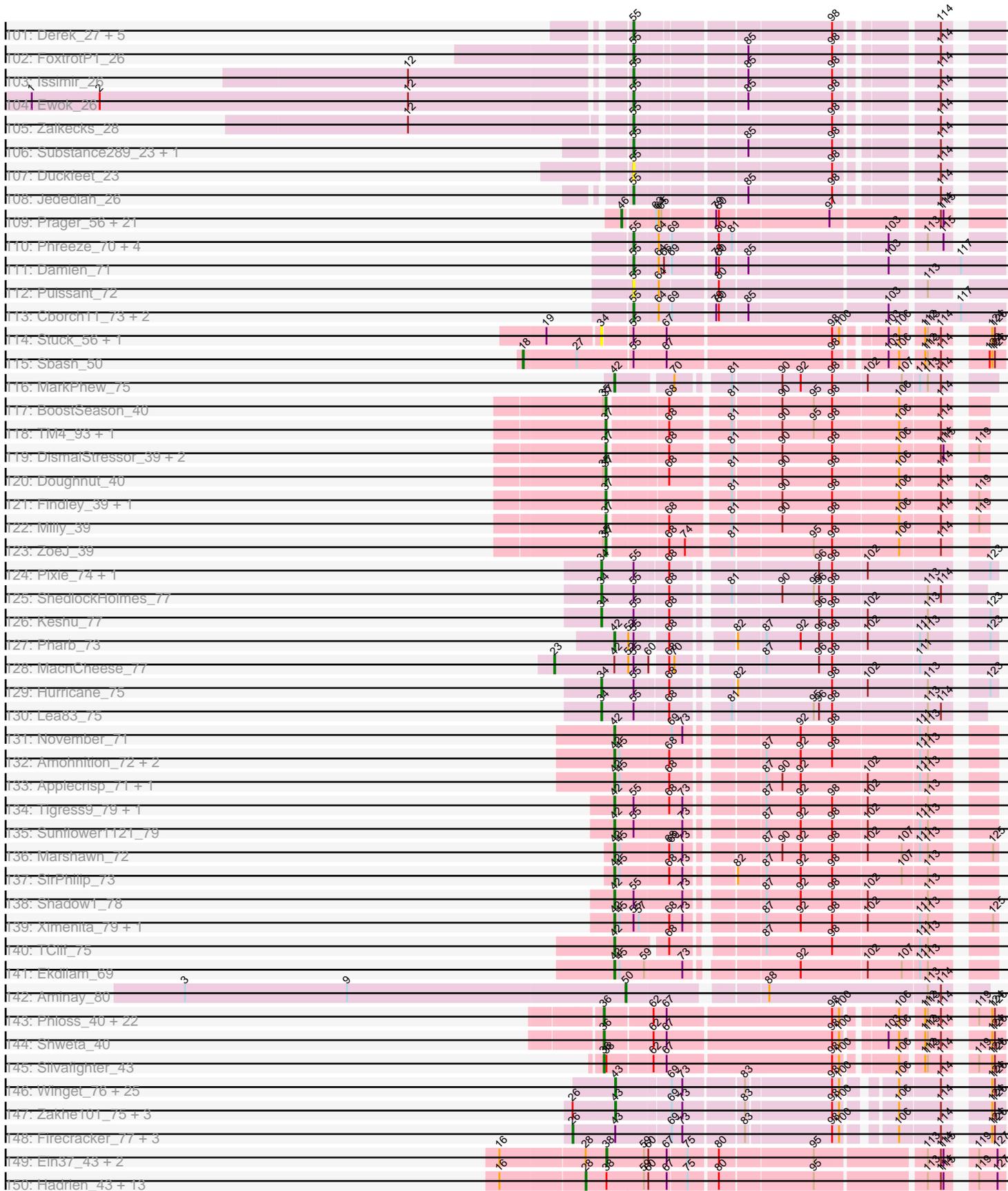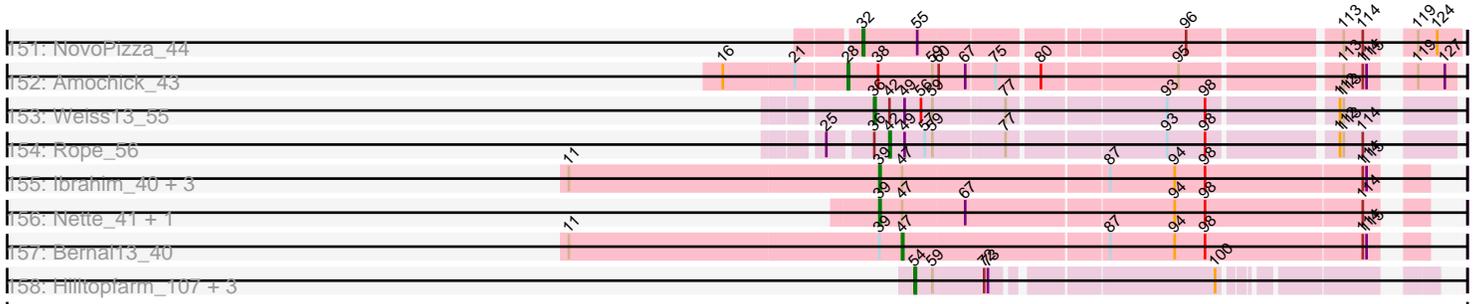# Pham 287445

Pham 287445

Pham 287445

Pham 287445

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 287445 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287445 has 805 members, 111 are drafts.

Phages represented in each track:
• Track 1 : DarthPhader_38
• Track 2 : Baehexic_36, Sknot_36, MiculUcigas_36, Centaur_37, Gratitude_36, WideWale_37, Drake55_38, Piro94_36, Updawg_37, Equemioh13_37, Bugsy_38, Flare16_36, NaSiaTalie_36
• Track 3 : KingCyrus_38, ChipMunk_38, SnapTap_36, Crucio_36, FiringLine_36, QueenBeesly_36, EvilGenius_38, Georgie2_37, Anselm_37, Power_35, SemperFi_37, AbbyPaige_37, Whabigail7_36, SweetiePie_36, Dalmatian_37
• Track 4 : GaugeLDP_37
• Track 5 : LionsBait_37
• Track 6 : WeiHuaDA_41
• Track 7 : HippoHollow_35
• Track 8 : Agape74_37
• Track 9 : Turbido_36
• Track 10 : JoshKayV_37
• Track 11 : Terrific_39
• Track 12 : Lokk_39
• Track 13 : Larenn_37, Dignity_37, Jerm_37, Leviathan_37, LilTurb_36, Smeagan_38
• Track 14 : BobSwaget_38
• Track 15 : Malec_38
• Track 16 : HarryHoudini_38
• Track 17 : Trooper_37
• Track 18 : Acolyte_72
• Track 19 : Miko_39, Rachaly_39
• Track 20 : DudeLittle_35, Retro23_37
• Track 21 : Fameo_36
• Track 22 : TarsusIV_35
• Track 23 : QueenB2_36
• Track 24 : Charm_35, DreamTeam1_35
• Track 25 : Phrappuccino_28, Settecandela_28
• Track 26 : JacoRen57_55
• Track 27 : Mao1_56
• Track 28 : Dori_57
• Track 29 : Mask_57
• Track 30 : Weirdo19_40
• Track 31 : JustASigh_40
• Track 32 : IdentityCrisis_40, WST1_41

- Track 33 : Cornbread_56, IsaacEli_57, SallyH_57, Dati_56, Eugenia_56, Mutante_56, Placalicious_56, Badfish_57, Mesmerelda_55, Melc17_56, Andre_58, Burr_56, ABU_57, Magic8_57, Mulan_56, Weher20_56, True_55, Jesabah_57, DoesntMatter_54, Mcshane_55, Swish_57, Fang_57, Nicole21_57, FugateOSU_56, Beaglebox_56, Slatt_57, Waterdiva_56, Freya_54, Skippy_57, Selr12_56, Quisquiliae_57, Ricotta_55, ProfessorX_55, Iridessa_57, Olak_55, AngelCake_57, PinheadLarry_57, Oosterbaan_56, FluffyNinja_57, TooFast2Furius_58, JDog_55, PhrodoBaggins_57, Adriana_57, Pacifista_55, Orion_57, Scoot17C_57, Cher_56, Cobra_57, Usavi_56, Squiggle_57, Murdoc_55, HenryJackson_56, PG1_57, Orwigg_56, Orfeu_54, Nyala_55, Dice_55, Chah_58, Gwilliam_57, Sigman_57, Tomlarah_57
- Track 34 : Karn_56, Struggle_56, Doddsville_56
- Track 35 : JakeO_56, Apizium_55, RedMaple_57, LeiMonet_58, Fozzie_55, Cornobble_55, TallGrassMM_56, Surely_56, Newman_55, Cannibal_56, Squid_56, TomBombadil_56, Inverness_55, Telesworld_54, Aleia_57, SassyCat97_55, Veritas_57, Solosis_55, OSmaximus_57
- Track 36 : Hartsy_57, DolOn_60, Piglet_0056, Altwerkus_54, Lumine_57, ShadowBud_57, Fringe_60, ThreeOh3D2_57, Aonishiki_57, Kahve_56, HighStump_58, HogWash_56, Legolas_58, Haimas_55, Pherdinand_57, Etaye_56, Toni_55, Pipsqueak_55, Hertubise_56, Kikipoo_57, Morty_57, Serpentine_0056, Nacho_0057, Vista_55, Inchworm_58, Bishoperium_56, BlackStallion_57, Windsor_56, Phipps_56, Jillium_56, Gareth_56, UncleHowie_55, BoogieWoogie_57, Gophee_57, PallasAthena_58, FleetyMac_57, Vaticameos_53, JacAttac_57, LeeLot_56, Happabalu_56, Longacauda_57, Mecca_56, CampRoach_58, Lego3393_55, Kimbrough_57, Craff_59, Anderson_57, Matalotodo_55, Katniss_57, Bluephacebaby_56, Zelda_56, SirBeauregard_57, Buckeye_55, Thora_56, LasagnaCat_58, Scrick_57, Chaelin_57, Megamind20_57, Plata_56, PhatCats2014_57, Harvey_55, Megatron_57, Yoshand_57, SilverBell_55, DonSanchon_54, KingTut_48
- Track 37 : Frankicide_55, KlimbOn_55, Mikota_54, HSavage_55, MiniBoss_54, AbsoluteMadLad_55, Dingo_54, Sheila_54, Colbert_54, Phamished_57
- Track 38 : CamL_56, Mosaic_55, MRabcd_55, Sophia_55, Cosmolli16_57, Lulwa_54, Chorkpop_56, Childish_56, Riggan_57, Lasso_56, Potter_55, Mana_55, QueenBeane_56, Daffy_56, Puhltonio_56, FremontTroll_57, Kwadwo_55, Samaymay_56, Haleema_55, LostAndPhound_56, Vortex_56, Banjo_55, Xavier_55, Giraffe_57
- Track 39 : Jiminy_56, Jiraiya_56, Duggie_56, Schueller_56, Thunderbird_55
- Track 40 : Carthage_54, Prickles_57
- Track 41 : Grand2040_56, Timmi_55, MitKao_56, Maru_56, Mesh1_57, Iridoclysis_57, Morgushi_56, Serendipity_56, Podrick_54, Held_56
- Track 42 : BlueHusk_57, Suffolk_54, Soto_54, Gyarad_0054, Riverton_54, CheetO_55, Chipette_57, Horchata_55, SDcharge11_55, GreenChile_57, KLucky39_54, RedRaider89_57, OneBrain_57, Hekos_53, Basato_56, OliverWalter_55, Roliet_54, Chunky_54, KingVeVeVe_54
- Track 43 : Coletti_57, BlacksBerry_55, Virgeve_55, Keitherie_57, Chute_56, PhatLouie_57, Hamish_55, Charles1_57, Numberten_55
- Track 44 : ImtiyazSitla_57, Trypo_58, Maskar_57, BatteryCK_56, Emiris_58, JangoPhett_56, PhrankReynolds_55, Oline_56, Mag7_56, Ashraf_57, Kailash_56, Wallhey_56, Pinkman_55, MelsMeow_56, Durga_58, GeneCoco_56
- Track 45 : Daka_58, DirtJuice_57
- Track 46 : Valjean_55, Zaider_56, Olive_55, EmpTee_55, Spartan300_55
- Track 47 : YouGoGlencoco_57, LemonSlice_57, Larson_58

- Track 48 : Lehmann_56, Roscoe_56, Aelin_55, Manad_55, Robyn_55, Tooj_54, Vaishali24_54, Triad_56
- Track 49 : Kloppinator_56, Swiphy_57
- Track 50 : Crownjwl_56, Antonia_55, Vivaldi_57, Schadenfreude_55, Lopsy_53, AltPhacts_55, Eremos_55
- Track 51 : Roy17_55, Dione_54, Phareon_55, LuckyMarjie_54, Lulumae_54, Phunky_55, Nathan_57
- Track 52 : CharlieGBrown_56
- Track 53 : Labeouficaum_56, Derpp_55, Virapocalypse_57, Hocus_56, MichaelPhcott_56, PhenghisKhan_56, Zonia_57, Caspiboi_56, TyrionL_56, Kwksand96_56, Phergie_57, Phleuron_56
- Track 54 : Flake_58
- Track 55 : Chuni_57
- Track 56 : DuchessDung_57, Hetaeria_55, UAch1_55, ElvisPhasley_57
- Track 57 : MrPhizzler_58, DaddyDaniels_58
- Track 58 : Soile_57, DelRivs_55, Simielle_55
- Track 59 : FriarPreacher_55
- Track 60 : Boehler_55
- Track 61 : Gwennie1_56
- Track 62 : Pops_55
- Track 63 : Brilliant_58, Omniscient_57
- Track 64 : Khan1_57, Plmatters_55
- Track 65 : Xincheng_50, JaguarMi_51
- Track 66 : ChrisnMich_49
- Track 67 : VioletZ_51, Hydro_49, Austelle_50, Mudslide_49
- Track 68 : Lambano_48, Hally898_48
- Track 69 : Nigel_50
- Track 70 : Epah_48, Nanao_48, GinPorsche_49, Antihero_48, Poster_48
- Track 71 : JAMaL_49
- Track 72 : Cooper_50
- Track 73 : Heath_48
- Track 74 : RawrgerThat_50, LittleDigger_48, Renkei_48
- Track 75 : Apex_50, Prince_49, Lolalove_50
- Track 76 : AlanGrant_52
- Track 77 : Magpie_48, Fanaw_48
- Track 78 : Vincenzo_51
- Track 79 : Ahwei_48
- Track 80 : Stinger_49
- Track 81 : Nehemiah_53
- Track 82 : StinkyVeggy_54, KarasumaRum_54
- Track 83 : SirJeffery_53, EastView9101_53
- Track 84 : Acadian_54
- Track 85 : Reccee_54, Rita130_53
- Track 86 : Phelemich_52, Mysterious_52, Reprobate_53
- Track 87 : Rich_54, Baee_55
- Track 88 : Suigeneris_55, Donny_55
- Track 89 : Serendipitous_53
- Track 90 : DigitDog_54, Nangang_54
- Track 91 : Shenyu_54
- Track 92 : Atlantean_26, LookingGlass_29, Phlegm_28, SmallFry_26, Phusco_26, InigoMontoya_27, ValleyTerrace_26, Jemmno_26, ShiaLabeouf_26, Mikro_24, SilverDipper_27, Specks_31, Rahel_26, Essence_25, Momo_25, DTDevon_27, Matsumoto_25, Guwapp_26, ArcherS7_25, Labradorite_25, Janiyra_26,

Gamgam_26, Capablanca_28, Pivoine_26, Dessert_24, CindyLou_26, Littleton_26, Chomp_26, BeanWater_22, Ghost_26, Adlitam_26, Amataga_26, Patter_26, Pier_28, InterFolia_33, Latch_26, Fongie_26, Kamryn_26, Jezreel_25, IkeLoa_22, YoungMoneyMata_26, Jaygup_26, Tortoise16_25, StephanieG_26, GlutenPhree_27, Shnickers_26, LifeSavor_27, Bangla1971_25, Ading_26, Tyke_28, LolaVinca_29, DirtMonster_25, Dandelion_30, Quasimodo_26, Spec_24, Domi_21, Audrick_28, Ablatia_25, Naija_26
• Track 93 : Asterius_27, PurduePete_25, Cleatunium_22, Burrough_26, Tainan_31, Gabriel_26, BigCity_30, EggyFarm_30, Blubba_20, Nappy_27, Naval22_28, BackyardAgain_23, Wally_25, Colt_19, I3_28, Bigswole_32, PharkleMinkus_31, Morizzled23_25, Concombre_25, Caravan_24, Pio_29, LordLeafolot_32, Zeenon_28, JustHall_25, Bxz1_27, DrPhinkDaddy_26, Bipolarisk_25, Megamind_26, Grasshills_30, Rocha_24, JayJay_29, Napoleon13_25, SrishMeg2525_25, Spud_28, Bonray_26, NuevoMundo_29, Demodog_24, Breeniome_26, JigglyPuff_26, Melpomini_25, Cane17_19, Mangeria_29, Catera_24, FrayBell_32
• Track 94 : Primadonna_21
• Track 95 : ZygoTaiga_26, Norm_26, Izajani_27, MoMoMixon_27, YemiJoy2021_27, SVoro_25, Darko_25, Salacia_28, Bowman_25, Willis_26, BananaFence_27, Pleione_28, Ava3_27, Loanshark_26, NedWong_27, Shrimp_26, Iota_23, Daffodil_28, Nidhogg_27, Bread_27, Erdmann_27, EasyJones_25, OrediggerDelux_25, Rizal_24, Drazdys_26, ParkTD_25, Teardrop_25, EmToTheThree_29, Yucca_26, Ronan_21, Delilah_26, StubbySaigey_25, TinyTim_26, FudgeTart_27, Cali_26, Roots515_26, Gizmo_28, Maby2021_27, MikeLiesIn_26
• Track 96 : Grungle_19, BobaPhatt_23, Halldule_22, Lethe_25, Fixie_23, Bezza_18, Belieber_22, Shaqnato_22, LRRHood_23, ScottMcG_26, Lukilu_19, McGee_25, Maturis_26, Blackdragon_21
• Track 97 : Astraea_27, Pinkcreek_18
• Track 98 : Koguma_22, ChickenPhender_25, Cactojaque_23, BadAgartude_27, QBert_24, LinStu_26, ErnieJ_27, Kboogie_26, Blackbrain_24, ET08_21, Rabinovish_25, Sauce_27, JPickles_24, Sprinklers_26, Babyland_25, DeejaClivia_22, JulietS_21, Turret_24, Phox_25, Basquiat_25, ChaylaJr_25, Fludd_25, Yassified_23, Chargie21_25, CharlieB_26, Dietrick_21, Trinitium_25, Sebata_26, EmmaElysia_24
• Track 99 : Moiqah_20, Shelob_28, Jessibeth14_25, Alice_21, McWolfish_25, Delylah_27, Khaleesi_25, Stubby_24, Moby_20, Flabslab_27, Lee7_25
• Track 100 : Lunareta_25, Montpel_25
• Track 101 : Derek_27, Shifa_23, RoMag_21, Pupusa_33, HyRo_25, NoodleTree_25
• Track 102 : FoxtrotP1_26
• Track 103 : Issimir_26
• Track 104 : Ewok_26
• Track 105 : Zalkecks_28
• Track 106 : Substance289_23, Ngannou_24
• Track 107 : Duckfeet_23
• Track 108 : Jedediah_26
• Track 109 : Prager_56, Giuseppe_57, Adjutor_55, PLot_56, SirHarley_57, Chill_58, Erk16_55, PBI1_53, WaldoWhy_58, KandZ_55, Butterscotch_55, Delton_57, Penelope2018_56, Visconti_57, Troll4_56, BigMama_54, SuperheroCarly_57, Gumball_55, Helpful_59, Thoth_56, Mopey_57, Nova_55
• Track 110 : Phreeze_70, Beckerton_70, Oaker_71, Thumb_72, BobtimousPrime_71
• Track 111 : Damien_71
• Track 112 : Puissant_72
• Track 113 : Cborch11_73, Konstantine_75, Megatron06_72

- Track 114 : Stuck_56, Bluvara_47
- Track 115 : Sbash_50
- Track 116 : MarkPhew_75
- Track 117 : BoostSeason_40
- Track 118 : TM4_93, Mufasa_40
- Track 119 : DismalStressor_39, Marcoliusprime_39, DismalFunk_39
- Track 120 : Doughnut_40
- Track 121 : Findley_39, Strobilo_39
- Track 122 : Milly_39
- Track 123 : ZoeJ_39
- Track 124 : Pixie_74, TBond007_71
- Track 125 : ShedlockHolmes_77
- Track 126 : Keshu_77
- Track 127 : Pharb_73
- Track 128 : MacnCheese_77
- Track 129 : Hurricane_75
- Track 130 : Lea83_75
- Track 131 : November_71
- Track 132 : Amohnition_72, Hammy_72, DarthP_72
- Track 133 : Applecrisp_71, Ellie_70
- Track 134 : Tigress9_79, Krueger_78
- Track 135 : Sunflower1121_79
- Track 136 : Marshawn_72
- Track 137 : SirPhilip_73
- Track 138 : Shadow1_78
- Track 139 : Ximenita_79, Syra333_77
- Track 140 : TClif_75
- Track 141 : Ekdilam_69
- Track 142 : Aminay_80
- Track 143 : Phloss_40, Tortoise12_41, Pipsqueaks_42, Smurph_42, Carcharodon_42, Melville_45, Jamie19_40, Parmesanjohn_42, SpongeBob_40, Gex_42, Schnauzer_43, Fulbright_41, Magsby_42, Scitech_39, Xerxes_42, Tapioca_44, Panchino_39, Andies_40, Duplicity_42, Snekmaggedon_40, Tessdabest_43, Phrann_44, Chewbacca_44
- Track 144 : Shweta_40
- Track 145 : Silvafighter_43
- Track 146 : Winget_76, Blessica_76, Ryadel_79, MadKillah_77, Bora_73, Murai_76, SchoolBus_75, KingPhillip3_74, JangDynasty_75, YoyoKar_73, Vorrps_76, Shida_75, TelAviv_72, Idergollasper_75, Zebo_75, FoulBall_76, Schuy_77, Imara_74, Krili_75, Vagabond_76, Mori_76, NiebruSaylor_75, Wogge42_75, Catdawg_75, Alkhayr_76, Familton_76
- Track 147 : Zakhe101_75, YungJamal_80, Smooch_78, Wildflower_76
- Track 148 : Firecracker_77, Corndog_78, Dylan_76, Ashwin_77
- Track 149 : Ein37_43, Webster2_43, BloominB_43
- Track 150 : Hadrien_43, Kinbote_43, Ubuntu_43, Dewey_41, Hail_41, Luke_43, Luna22_41, Amymech_43, LilHazelnut_43, OBUpride_43, Giles_41, Forge_41, Evanesce_42, HH92_42
- Track 151 : NovoPizza_44
- Track 152 : Amochick_43
- Track 153 : Weiss13_55
- Track 154 : Rope_56
- Track 155 : Ibrahim_40, ZenTime222_39, Nairb_39, RonRayGun_40
- Track 156 : Nette_41, Mendokysei_38

• Track 157 : Bernal13_40
• Track 158 : Hilltopfarm_107, AuntGwenStacy_104, Faiyaz_105, Typha_103

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

The start number called the most often in the published annotations is 55, it was called in 187 of the 694 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_25, Ading_26, Adlitam_26, Alice_21, Amataga_26, ArcherS7_25, Asterius_27, Astraea_27, Atlantean_26, Audrick_28, Ava3_27, Babyland_25, BackyardAgain_23, BadAgartude_27, BananaFence_27, Bangla1971_25, Basquiat_25, BeanWater_22, Beckerton_70, Belieber_22, Bezza_18, BigCity_30, Bigswole_32, Bipolarisk_25, Blackbrain_24, Blackdragon_21, Blubba_20, BobaPhatt_23, BobtimousPrime_71, Bonray_26, Bowman_25, Bread_27, Breeniome_26, Burrough_26, Bxz1_27, Cactojaque_23, Cali_26, Cane17_19, Capablanca_28, Caravan_24, Catera_24, Cborch11_73, Chargie21_25, CharlieB_26, ChaylaJr_25, ChickenPhender_25, Chomp_26, CindyLou_26, Cleatunium_22, Colt_19, Concombre_25, DTDevon_27, Daffodil_28, Damien_71, Dandelion_30, Darko_25, DeejaClivia_22, Delilah_26, Delylah_27, Demodog_24, Derek_27, Dessert_24, Dietrick_21, DirtMonster_25, Domi_21, DrPhinkDaddy_26, Drazdys_26, Duckfeet_23, ET08_21, EasyJones_25, EggyFarm_30, EmToTheThree_29, EmmaElysia_24, Erdmann_27, ErnieJ_27, Essence_25, Ewok_26, Fixie_23, Flabslab_27, Fludd_25, Fongie_26, FoxtrotP1_26, FrayBell_32, FudgeTart_27, Gabriel_26, Gamgam_26, Ghost_26, Gizmo_28, GlutenPhree_27, Grasshills_30, Grungle_19, Guwapp_26, Halldule_22, HyRo_25, I3_28, IkeLoa_22, InigoMontoya_27, InterFolia_33, Iota_23, Issimir_26, Izajani_27, JPickles_24, Janiyra_26, JayJay_29, Jaygup_26, Jedediah_26, Jemmno_26, Jessibeth14_25, Jezreel_25, JigglyPuff_26, JulietS_21, JustHall_25, Kamryn_26, Kboogie_26, Khaleesi_25, Koguma_22, Konstantine_75, LRRHood_23, Labradorite_25, Latch_26, Lee7_25, Lethe_25, LifeSavor_27, LinStu_26, Littleton_26, Loanshark_26, LolaVinca_29, LookingGlass_29, LordLeafolot_32, Lukilu_19, Lunareta_25, Maby2021_27, Mangeria_29, Matsumoto_25, Maturis_26, McGee_25, McWolfish_25, Megamind_26, Megatron06_72, Melpomini_25, MikeLiesIn_26, Mikro_24, MoMoMixon_27, Moby_20, Moiqah_20, Momo_25, Montpel_25, Morizzled23_25, Naija_26, Napoleon13_25, Nappy_27, Naval22_28, NedWong_27, Ngannou_24, Nidhogg_27, NoodleTree_25, Norm_26, NuevoMundo_29, Oaker_71, OrediggerDelux_25, ParkTD_25, Patter_26, PharkleMinkus_31, Phlegm_28, Phox_25, Phreeze_70, Phusco_26, Pier_28, Pinkcreek_18, Pio_29, Pivoine_26, Pleione_28, Primadonna_21, Puissant_72, Pupusa_33, PurduePete_25, QBert_24, Quasimodo_26, Rabinovish_25, Rahel_26, Rizal_24, RoMag_21, Rocha_24, Ronan_21, Roots515_26, SVoro_25, Salacia_28, Sauce_27, ScottMcG_26, Sebata_26, Shaqnato_22, Shelob_28, ShiaLabeouf_26, Shifa_23, Shnickers_26, Shrimp_26, SilverDipper_27, SmallFry_26, Spec_24, Specks_31, Sprinklers_26, Spud_28, SrishMeg2525_25, StephanieG_26, StubbySaigey_25, Stubby_24, Substance289_23, Tainan_31, Teardrop_25, Thumb_72, TinyTim_26, Tortoise16_25, Trinitium_25, Turret_24, Tyke_28, ValleyTerrace_26, Wally_25, Willis_26, Yassified_23, YemiJoy2021_27, YoungMoneyMata_26, Yucca_26, Zalkecks_28, Zeenon_28, ZygoTaiga_26,

Genes that have the "Most Annotated" start but do not call it:
• Acolyte_72, Agape74_37, Bluvara_47, Dori_57, Hurricane_75, Keshu_77, Krueger_78, Lea83_75, MacnCheese_77, Mask_57, NovoPizza_44, Pharb_73, Pixie_74, Sbash_50, Shadow1_78, ShedlockHolmes_77, Stuck_56, Sunflower1121_79, Syra333_77, TBond007_71, Tigress9_79, Ximenita_79,

Genes that do not have the "Most Annotated" start:
• ABU_57, AbbyPaige_37, AbsoluteMadLad_55, Acadian_54, Adjutor_55, Adriana_57, Aelin_55, Ahwei_48, AlanGrant_52, Aleia_57, Alkhayr_76, AltPhacts_55, Altwerkus_54, Aminay_80, Amochick_43, Amohnition_72, Amymech_43, Anderson_57, Andies_40, Andre_58, AngelCake_57, Anselm_37, Antihero_48, Antonia_55, Aonishiki_57, Apex_50, Apizium_55, Applecrisp_71, Ashraf_57, Ashwin_77, AuntGwenStacy_104, Austelle_50, Badfish_57, Baee_55, Baehexic_36, Banjo_55, Basato_56, BatteryCK_56, Beaglebox_56, Bernal13_40, BigMama_54, Bishoperium_56, BlackStallion_57, BlacksBerry_55, Blessica_76, BloominB_43, BlueHusk_57, Bluephacebaby_56, BobSwaget_38, Boehler_55, BoogieWoogie_57, BoostSeason_40, Bora_73, Brilliant_58, Buckeye_55, Bugsy_38, Burr_56, Butterscotch_55, CamL_56, CampRoach_58, Cannibal_56, Carcharodon_42, Carthage_54, Caspiboi_56, Catdawg_75, Centaur_37, Chaelin_57, Chah_58, Charles1_57, CharlieGBrown_56, Charm_35, CheetO_55, Cher_56, Chewbacca_44, Childish_56, Chill_58, ChipMunk_38, Chipette_57, Chorkpop_56, ChrisnMich_49, Chuni_57, Chunky_54, Chute_56, Cobra_57, Colbert_54, Coletti_57, Cooper_50, Cornbread_56, Corndog_78, Cornobble_55, Cosmolli16_57, Craff_59, Crownjwl_56, Crucio_36, DaddyDaniels_58, Daffy_56, Daka_58, Dalmatian_37, DarthP_72, DarthPhader_38, Dati_56, DelRivs_55, Delton_57, Derpp_55, Dewey_41, Dice_55, DigitDog_54, Dignity_37, Dingo_54, Dione_54, DirtJuice_57, DismalFunk_39, DismalStressor_39, Doddsville_56, DoesntMatter_54, DolOn_60, DonSanchon_54, Donny_55, Doughnut_40, Drake55_38, DreamTeam1_35, DuchessDung_57, DudeLittle_35, Duggie_56, Duplicity_42, Durga_58, Dylan_76, EastView9101_53, Ein37_43, Ekdilam_69, Ellie_70, ElvisPhasley_57, Emiris_58, EmpTee_55, Epah_48, Equemioh13_37, Eremos_55, Erk16_55, Etaye_56, Eugenia_56, Evanesce_42, EvilGenius_38, Faiyaz_105, Fameo_36, Familton_76, Fanaw_48, Fang_57, Findley_39, Firecracker_77, FiringLine_36, Flake_58, Flare16_36, FleetyMac_57, FluffyNinja_57, Forge_41, FoulBall_76, Fozzie_55, Frankicide_55, FremontTroll_57, Freya_54, FriarPreacher_55, Fringe_60, FugateOSU_56, Fulbright_41, Gareth_56, GaugeLDP_37, GeneCoco_56, Georgie2_37, Gex_42, Giles_41, GinPorsche_49, Giraffe_57, Giuseppe_57, Gophee_57, Grand2040_56, Gratitude_36, GreenChile_57, Gumball_55, Gwennie1_56, Gwilliam_57, Gyarad_0054, HH92_42, HSavage_55, Hadrien_43, Hail_41, Haimas_55, Haleema_55, Hally898_48, Hamish_55, Hammy_72, Happabalu_56, HarryHoudini_38, Hartsy_57, Harvey_55, Heath_48, Hekos_53, Held_56, Helpful_59, HenryJackson_56, Hertubise_56, Hetaeria_55, HighStump_58, Hilltopfarm_107, HippoHollow_35, Hocus_56, HogWash_56, Horchata_55, Hydro_49, Ibrahim_40, IdentityCrisis_40, Idergollasper_75, Imara_74, ImtiyazSitla_57, Inchworm_58, Inverness_55, Iridessa_57, Iridoclysis_57, IsaacEli_57, JAMaL_49, JDog_55, JacAttac_57, JacoRen57_55, JaguarMi_51, JakeO_56, Jamie19_40, JangDynasty_75, JangoPhett_56, Jerm_37, Jesabah_57, Jillium_56, Jiminy_56, Jiraiya_56, JoshKayV_37, JustASigh_40, KLucky39_54, Kahve_56, Kailash_56, KandZ_55, KarasumaRum_54, Karn_56, Katniss_57, Keitherie_57, Khan1_57, Kikipoo_57, Kimbrough_57, Kinbote_43, KingCyrus_38, KingPhillip3_74, KingTut_48, KingVeVeVe_54, KlimbOn_55, Kloppinator_56, Krili_75, Kwadwo_55, Kwksand96_56, Labeouficaum_56, Lambano_48, Larenn_37, Larson_58, LasagnaCat_58, Lasso_56, LeeLot_56, Lego3393_55, Legolas_58, Lehmann_56,

LeiMonet_58, LemonSlice_57, Leviathan_37, LilHazelnut_43, LilTurb_36, LionsBait_37, LittleDigger_48, Lokk_39, Lolalove_50, Longacauda_57, Lopsy_53, LostAndPhound_56, LuckyMarjie_54, Luke_43, Lulumae_54, Lulwa_54, Lumine_57, Luna22_41, MRabcd_55, MadKillah_77, Mag7_56, Magic8_57, Magpie_48, Magsby_42, Malec_38, Mana_55, Manad_55, Mao1_56, Marcoliusprime_39, MarkPhew_75, Marshawn_72, Maru_56, Maskar_57, Matalotodo_55, Mcshane_55, Mecca_56, Megamind20_57, Megatron_57, Melc17_56, MelsMeow_56, Melville_45, Mendokysei_38, Mesh1_57, Mesmerelda_55, MichaelPhcott_56, MiculUcigas_36, Miko_39, Mikota_54, Milly_39, MiniBoss_54, MitKao_56, Mopey_57, Morgushi_56, Mori_76, Morty_57, Mosaic_55, MrPhizzler_58, Mudslide_49, Mufasa_40, Mulan_56, Murai_76, Murdoc_55, Mutante_56, Mysterious_52, NaSiaTalie_36, Nacho_0057, Nairb_39, Nanao_48, Nangang_54, Nathan_57, Nehemiah_53, Nette_41, Newman_55, Nicole21_57, NiebruSaylor_75, Nigel_50, Nova_55, November_71, Numberten_55, Nyala_55, OBUpride_43, OSmaximus_57, Olak_55, Oline_56, Olive_55, OliverWalter_55, Omniscient_57, OneBrain_57, Oosterbaan_56, Orfeu_54, Orion_57, Orwigg_56, PBI1_53, PG1_57, PLot_56, Pacifista_55, PallasAthena_58, Panchino_39, Parmesanjohn_42, Penelope2018_56, Phamished_57, Phareon_55, PhatCats2014_57, PhatLouie_57, Phelemich_52, PhenghisKhan_56, Pherdinand_57, Phergie_57, Phipps_56, Phleuron_56, Phloss_40, PhrankReynolds_55, Phrann_44, Phrappuccino_28, PhrodoBaggins_57, Phunky_55, Piglet_0056, PinheadLarry_57, Pinkman_55, Pipsqueak_55, Pipsqueaks_42, Piro94_36, Placalicious_56, Plata_56, Plmatters_55, Podrick_54, Pops_55, Poster_48, Potter_55, Power_35, Prager_56, Prickles_57, Prince_49, ProfessorX_55, Puhltonio_56, QueenB2_36, QueenBeane_56, QueenBeesly_36, Quisquiliae_57, Rachaly_39, RawrgerThat_50, Reccee_54, RedMaple_57, RedRaider89_57, Renkei_48, Reprobate_53, Retro23_37, Rich_54, Ricotta_55, Riggan_57, Rita130_53, Riverton_54, Robyn_55, Roliet_54, RonRayGun_40, Rope_56, Roscoe_56, Roy17_55, Ryadel_79, SDcharge11_55, SallyH_57, Samaymay_56, SassyCat97_55, Schadenfreude_55, Schnauzer_43, SchoolBus_75, Schueller_56, Schuy_77, Scitech_39, Scoot17C_57, Scrick_57, Selr12_56, SemperFi_37, Serendipitous_53, Serendipity_56, Serpentine_0056, Settecandela_28, ShadowBud_57, Sheila_54, Shenyu_54, Shida_75, Shweta_40, Sigman_57, Silvafighter_43, SilverBell_55, Simielle_55, SirBeauregard_57, SirHarley_57, SirJeffery_53, SirPhilip_73, Skippy_57, Sknot_36, Slatt_57, Smeagan_38, Smooch_78, Smurph_42, SnapTap_36, Snekmaggedon_40, Soile_57, Solosis_55, Sophia_55, Soto_54, Spartan300_55, SpongeBob_40, Squid_56, Squiggle_57, Stinger_49, StinkyVeggy_54, Strobilo_39, Struggle_56, Suffolk_54, Suigeneris_55, SuperheroCarly_57, Surely_56, SweetiePie_36, Swiphy_57, Swish_57, TClif_75, TM4_93, TallGrassMM_56, Tapioca_44, TarsusIV_35, TelAviv_72, Telesworld_54, Terrific_39, Tessdabest_43, Thora_56, Thoth_56, ThreeOh3D2_57, Thunderbird_55, Timmi_55, TomBombadil_56, Tomlarah_57, Toni_55, TooFast2Furius_58, Tooj_54, Tortoise12_41, Triad_56, Troll4_56, Trooper_37, True_55, Trypo_58, Turbido_36, Typha_103, TyrionL_56, UAch1_55, Ubuntu_43, UncleHowie_55, Updawg_37, Usavi_56, Vagabond_76, Vaishali24_54, Valjean_55, Vaticameos_53, Veritas_57, Vincenzo_51, VioletZ_51, Virapocalypse_57, Virgeve_55, Visconti_57, Vista_55, Vivaldi_57, Vorrps_76, Vortex_56, WST1_41, WaldoWhy_58, Wallhey_56, Waterdiva_56, Webster2_43, Weher20_56, WeiHuaDA_41, Weirdo19_40, Weiss13_55, Whabigail7_36, WideWale_37, Wildflower_76, Windsor_56, Winget_76, Wogge42_75, Xavier_55, Xerxes_42, Xincheng_50, Yoshand_57, YouGoGlencoco_57, YoyoKar_73, YungJamal_80, Zaider_56, Zakhe101_75, Zebo_75, Zelda_56, ZenTime222_39, ZoeJ_39, Zonia_57,

Summary by start number:

Start 18:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sbash_50 (I2),

Start 23:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacnCheese_77 (K3),

Start 24:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JustASigh_40 (AH),

Start 25:
• Found in 3 of 805 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 33.3% of time when present
• Phage (with cluster) where this start called: GaugeLDP_37 (A2),

Start 26:
• Found in 9 of 805 (1.1%) of genes in pham
• Manual Annotations of this start: 4 of 694
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Ashwin_77 (O), Corndog_78 (O),
Dylan_76 (O), Firecracker_77 (O),

Start 28:
• Found in 18 of 805 (2.2%) of genes in pham
• Manual Annotations of this start: 15 of 694
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Amochick_43 (Q), Amymech_43 (Q),
Dewey_41 (Q), Evanesce_42 (Q), Forge_41 (Q), Giles_41 (Q), HH92_42 (Q),
Hadrien_43 (Q), Hail_41 (Q), Kinbote_43 (Q), LilHazelnut_43 (Q), Luke_43 (Q),
Luna22_41 (Q), OBUpride_43 (Q), Ubuntu_43 (Q),

Start 30:
• Found in 1 of 805 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weirdo19_40 (AH),

Start 32:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_44 (Q),

Start 33:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mao1_56 (AD),

Start 34:
• Found in 10 of 805 (1.2%) of genes in pham
• Manual Annotations of this start: 8 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bluvara_47 (I), Dori_57 (AD),
Hurricane_75 (K3), Keshu_77 (K3), Lea83_75 (K3), Mask_57 (AD), Pixie_74 (K3),
ShedlockHolmes_77 (K3), Stuck_56 (I2), TBond007_71 (K3),

Start 36:
• Found in 31 of 805 (3.9%) of genes in pham
• Manual Annotations of this start: 27 of 694
• Called 96.8% of time when present
• Phage (with cluster) where this start called: Andies_40 (N), Carcharodon_42 (N),
Chewbacca_44 (N), Duplicity_42 (N), Fulbright_41 (N), Gex_42 (N), IdentityCrisis_40
(AJ), Jamie19_40 (N), Magsby_42 (N), Melville_45 (N), Panchino_39 (N),
Parmesanjohn_42 (N), Phloss_40 (N), Phrann_44 (N), Phrappuccino_28 (AA),
Pipsqueaks_42 (N), Schnauzer_43 (N), Scitech_39 (N), Settecandela_28 (AA),
Shweta_40 (N), Silvafighter_43 (N), Smurph_42 (N), Snekmaggedon_40 (N),
SpongeBob_40 (N), Tapioca_44 (N), Tessdabest_43 (N), Tortoise12_41 (N),
WST1_41 (AJ), Weiss13_55 (R), Xerxes_42 (N),

Start 37:
• Found in 11 of 805 (1.4%) of genes in pham
• Manual Annotations of this start: 11 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_40 (K2), DismalFunk_39
(K2), DismalStressor_39 (K2), Doughnut_40 (K2), Findley_39 (K2),
Marcoliusprime_39 (K2), Milly_39 (K2), Mufasa_40 (K2), Strobilo_39 (K2), TM4_93
(K2), ZoeJ_39 (K2),

Start 38:
• Found in 19 of 805 (2.4%) of genes in pham
• Manual Annotations of this start: 2 of 694
• Called 15.8% of time when present
• Phage (with cluster) where this start called: BloominB_43 (Q), Ein37_43 (Q),
Webster2_43 (Q),

Start 39:
• Found in 7 of 805 (0.9%) of genes in pham
• Manual Annotations of this start: 5 of 694
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Ibrahim_40 (T), Mendokysei_38 (T),
Nairb_39 (T), Nette_41 (T), RonRayGun_40 (T), ZenTime222_39 (T),

Start 42:
• Found in 21 of 805 (2.6%) of genes in pham
• Manual Annotations of this start: 18 of 694

• Called 90.5% of time when present
• Phage (with cluster) where this start called: Amohnition_72 (K6), Applecrisp_71 (K6), DarthP_72 (K6), Ekdilam_69 (K6), Ellie_70 (K6), Hammy_72 (K6), Krueger_78 (K6), MarkPhew_75 (K1), Marshawn_72 (K6), November_71 (K6), Pharb_73 (K3), Rope_56 (R), Shadow1_78 (K6), SirPhilip_73 (K6), Sunflower1121_79 (K6), Syra333_77 (K6), TClif_75 (K6), Tigress9_79 (K6), Ximenita_79 (K6),

Start 43:
• Found in 52 of 805 (6.5%) of genes in pham
• Manual Annotations of this start: 34 of 694
• Called 84.6% of time when present
• Phage (with cluster) where this start called: Acadian_54 (B5), Alkhayr_76 (O), Baee_55 (B5), Blessica_76 (O), Bora_73 (O), Catdawg_75 (O), DigitDog_54 (B5), Donny_55 (B5), Familton_76 (O), FoulBall_76 (O), Idergollasper_75 (O), Imara_74 (O), JangDynasty_75 (O), KarasumaRum_54 (B5), KingPhillip3_74 (O), Krili_75 (O), MadKillah_77 (O), Mori_76 (O), Murai_76 (O), Mysterious_52 (B5), Nangang_54 (B5), Nehemiah_53 (B5), NiebruSaylor_75 (O), Phelemich_52 (B5), Reprobate_53 (B5), Rich_54 (B5), Ryadel_79 (O), SchoolBus_75 (O), Schuy_77 (O), Shenyu_54 (B5), Shida_75 (O), Smooch_78 (O), StinkyVeggy_54 (B5), Suigeneris_55 (B5), TelAviv_72 (O), Vagabond_76 (O), Vorrps_76 (O), Wildflower_76 (O), Winget_76 (O), Wogge42_75 (O), YoyoKar_73 (O), YungJamal_80 (O), Zakhe101_75 (O), Zebo_75 (O),

Start 44:
• Found in 31 of 805 (3.9%) of genes in pham
• Manual Annotations of this start: 17 of 694
• Called 90.3% of time when present
• Phage (with cluster) where this start called: AlanGrant_52 (B4), Antihero_48 (B4), Apex_50 (B4), Austelle_50 (B4), ChrisnMich_49 (B4), Cooper_50 (B4), Epah_48 (B4), Fanaw_48 (B4), GinPorsche_49 (B4), Hally898_48 (B4), Hydro_49 (B4), JAMaL_49 (B4), JaguarMi_51 (B4), Lambano_48 (B4), LittleDigger_48 (B4), Lolalove_50 (B4), Magpie_48 (B4), Mudslide_49 (B4), Nanao_48 (B4), Nigel_50 (B4), Poster_48 (B4), Prince_49 (B4), RawrgerThat_50 (B4), Renkei_48 (B4), Stinger_49 (B4), Vincenzo_51 (B4), VioletZ_51 (B4), Xincheng_50 (B4),

Start 45:
• Found in 12 of 805 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 8.3% of time when present
• Phage (with cluster) where this start called: JacoRen57_55 (AB),

Start 46:
• Found in 22 of 805 (2.7%) of genes in pham
• Manual Annotations of this start: 21 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adjutor_55 (D1), BigMama_54 (D1), Butterscotch_55 (D1), Chill_58 (D1), Delton_57 (D1), Erk16_55 (D1), Giuseppe_57 (D1), Gumball_55 (D1), Helpful_59 (D1), KandZ_55 (D1), Mopey_57 (D1), Nova_55 (D1), PBI1_53 (D1), PLot_56 (D1), Penelope2018_56 (D1), Prager_56 (D1), SirHarley_57 (D1), SuperheroCarly_57 (D1), Thoth_56 (D1), Troll4_56 (D1), Visconti_57 (D1), WaldoWhy_58 (D1),

Start 47:

• Found in 7 of 805 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Bernal13_40 (T),

Start 50:
• Found in 53 of 805 (6.6%) of genes in pham
• Manual Annotations of this start: 49 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyPaige_37 (A2), Acolyte_72 (A2), Agape74_37 (A2), Aminay_80 (K7), Anselm_37 (A2), Baehexic_36 (A2), Bugsy_38 (A2), Centaur_37 (A2), Charm_35 (A9), ChipMunk_38 (A2), Crucio_36 (A2), Dalmatian_37 (A2), DarthPhader_38 (A12), Dignity_37 (A2), Drake55_38 (A2), DreamTeam1_35 (A9), DudeLittle_35 (A2), Equemioh13_37 (A2), EvilGenius_38 (A2), Fameo_36 (A2), FiringLine_36 (A2), Flare16_36 (A2), Georgie2_37 (A2), Gratitude_36 (A2), HarryHoudini_38 (A2), HippoHollow_35 (A2), Jerm_37 (A2), JoshKayV_37 (A2), KingCyrus_38 (A2), Larenn_37 (A2), Leviathan_37 (A2), LilTurb_36 (A2), Malec_38 (A2), MiculUcigas_36 (A2), NaSiaTalie_36 (A2), Piro94_36 (A2), Power_35 (A2), QueenB2_36 (A2), QueenBeesly_36 (A2), Retro23_37 (A2), SemperFi_37 (A2), Sknot_36 (A2), Smeagan_38 (A2), SnapTap_36 (A2), SweetiePie_36 (A2), TarsusIV_35 (A2), Terrific_39 (A2), Trooper_37 (A2), Turbido_36 (A2), Updawg_37 (A2), WeiHuaDA_41 (A2), Whabigail7_36 (A2), WideWale_37 (A2),

Start 52:
• Found in 312 of 805 (38.8%) of genes in pham
• Manual Annotations of this start: 159 of 694
• Called 60.3% of time when present
• Phage (with cluster) where this start called: Aelin_55 (B1), Aleia_57 (B1), Altwerkus_54 (B1), Anderson_57 (B1), Aonishiki_57 (B1), Apizium_55 (B1), Ashraf_57 (B1), Banjo_55 (B1), Basato_56 (B1), BatteryCK_56 (B1), Bishoperium_56 (B1), BlackStallion_57 (B1), BlacksBerry_55 (B1), BlueHusk_57 (B1), Bluephacebaby_56 (B1), BoogieWoogie_57 (B1), Brilliant_58 (B1), Buckeye_55 (B1), CamL_56 (B1), CampRoach_58 (B1), Cannibal_56 (B1), Carthage_54 (B1), Chaelin_57 (B1), Charles1_57 (B1), CheetO_55 (B1), Childish_56 (B1), Chipette_57 (B1), Chorkpop_56 (B1), Chuni_57 (B1), Chunky_54 (B1), Chute_56 (B1), Coletti_57 (B1), Cornobble_55 (B1), Cosmolli16_57 (B1), Craff_59 (B1), Daffy_56 (B1), Dione_54 (B1), Doddsville_56 (B1), DolOn_60 (B1), DonSanchon_54 (B1), Durga_58 (B1), Emiris_58 (B1), EmpTee_55 (B1), Etaye_56 (B1), FleetyMac_57 (B1), Fozzie_55 (B1), FremontTroll_57 (B1), FriarPreacher_55 (B1), Fringe_60 (B1), Gareth_56 (B1), GeneCoco_56 (B1), Giraffe_57 (B1), Gophee_57 (B1), GreenChile_57 (B1), Gyarad_0054 (B1), Haimas_55 (B1), Haleema_55 (B1), Hamish_55 (B1), Happabalu_56 (B1), Hartsy_57 (B1), Harvey_55 (B1), Hekos_53 (B1), Hertubise_56 (B1), HighStump_58 (B1), HogWash_56 (B1), Horchata_55 (B1), ImtiyazSitla_57 (B1), Inchworm_58 (B1), Inverness_55 (B1), JacAttac_57 (B1), JakeO_56 (B1), JangoPhett_56 (B1), Jillium_56 (B1), KLucky39_54 (B1), Kahve_56 (B1), Kailash_56 (B1), Karn_56 (B1), Katniss_57 (B1), Keitherie_57 (B1), Khan1_57 (B1), Kikipoo_57 (B1), Kimbrough_57 (B1), KingTut_48 (B1), KingVeVeVe_54 (B1), Kwadwo_55 (B1), Larson_58 (B1), LasagnaCat_58 (B1), Lasso_56 (B1), LeeLot_56 (B1), Lego3393_55 (B1), Legolas_58 (B1), Lehmann_56 (B1), LeiMonet_58 (B1), LemonSlice_57 (B1), Longacauda_57 (B1), LostAndPhound_56 (B1), LuckyMarjie_54 (B1), Lulumae_54 (B1), Lulwa_54 (B1), Lumine_57 (B1), MRabcd_55 (B1), Mag7_56 (B1), Mana_55 (B1), Manad_55 (B1), Maskar_57 (B1), Matalotodo_55 (B1),

Mecca_56 (B1), Megamind20_57 (B1), Megatron_57 (B1), MelsMeow_56 (B1), Morty_57 (B1), Mosaic_55 (B1), Nacho_0057 (B1), Nathan_57 (B1), Newman_55 (B1), Numberten_55 (B1), OSmaximus_57 (B1), Oline_56 (B1), Olive_55 (B1), OliverWalter_55 (B1), Omniscient_57 (B1), OneBrain_57 (B1), PallasAthena_58 (B1), Phareon_55 (B1), PhatCats2014_57 (B1), PhatLouie_57 (B1), Pherdinand_57 (B1), Phipps_56 (B1), PhrankReynolds_55 (B1), Phunky_55 (B1), Piglet_0056 (B1), Pinkman_55 (B1), Pipsqueak_55 (B1), Plata_56 (B1), Plmatters_55 (B1), Pops_55 (B1), Potter_55 (B1), Prickles_57 (B1), Puhltonio_56 (B1), QueenBeane_56 (B1), RedMaple_57 (B1), RedRaider89_57 (B1), Riggan_57 (B1), Riverton_54 (B1), Robyn_55 (B1), Roliet_54 (B1), Roscoe_56 (B1), Roy17_55 (B1), SDcharge11_55 (B1), Samaymay_56 (B1), SassyCat97_55 (B1), Scrick_57 (B1), Serpentine_0056 (B1), ShadowBud_57 (B1), SilverBell_55 (B1), SirBeauregard_57 (B1), Solosis_55 (B1), Sophia_55 (B1), Soto_54 (B1), Spartan300_55 (B1), Squid_56 (B1), Struggle_56 (B1), Suffolk_54 (B1), Surely_56 (B1), TallGrassMM_56 (B1), Telesworld_54 (B1), Thora_56 (B1), ThreeOh3D2_57 (B1), TomBombadil_56 (B1), Toni_55 (B1), Tooj_54 (B1), Triad_56 (B1), Trypo_58 (B1), UncleHowie_55 (B1), Vaishali24_54 (B1), Valjean_55 (B1), Vaticameos_53 (B1), Veritas_57 (B1), Virgeve_55 (B1), Vista_55 (B1), Vortex_56 (B1), Wallhey_56 (B1), Windsor_56 (B1), Xavier_55 (B1), Yoshand_57 (B1), YouGoGlencoco_57 (B1), Zaider_56 (B1), Zelda_56 (B1),

Start 53:
• Found in 319 of 805 (39.6%) of genes in pham
• Manual Annotations of this start: 121 of 694
• Called 39.8% of time when present
• Phage (with cluster) where this start called: ABU_57 (B1), AbsoluteMadLad_55 (B1), Adriana_57 (B1), AltPhacts_55 (B1), Andre_58 (B1), AngelCake_57 (B1), Antonia_55 (B1), Badfish_57 (B1), Beaglebox_56 (B1), Boehler_55 (B1), Burr_56 (B1), Caspiboi_56 (B1), Chah_58 (B1), CharlieGBrown_56 (B1), Cher_56 (B1), Cobra_57 (B1), Colbert_54 (B1), Cornbread_56 (B1), Crownjwl_56 (B1), DaddyDaniels_58 (B1), Daka_58 (B1), Dati_56 (B1), DelRivs_55 (B1), Derpp_55 (B1), Dice_55 (B1), Dingo_54 (B1), DirtJuice_57 (B1), DoesntMatter_54 (B1), DuchessDung_57 (B1), Duggie_56 (B1), EastView9101_53 (B5), ElvisPhasley_57 (B1), Eremos_55 (B1), Eugenia_56 (B1), Fang_57 (B1), Flake_58 (B1), FluffyNinja_57 (B1), Frankicide_55 (B1), Freya_54 (B1), FugateOSU_56 (B1), Grand2040_56 (B1), Gwennie1_56 (B1), Gwilliam_57 (B1), HSavage_55 (B1), Held_56 (B1), HenryJackson_56 (B1), Hetaeria_55 (B1), Hocus_56 (B1), Iridessa_57 (B1), Iridoclysis_57 (B1), IsaacEli_57 (B1), JDog_55 (B1), Jesabah_57 (B1), Jiminy_56 (B1), Jiraiya_56 (B1), KlimbOn_55 (B1), Kloppinator_56 (B1), Kwksand96_56 (B1), Labeouficaum_56 (B1), Lopsy_53 (B1), Magic8_57 (B1), Maru_56 (B1), Mcshane_55 (B1), Melc17_56 (B1), Mesh1_57 (B1), Mesmerelda_55 (B1), MichaelPhcott_56 (B1), Mikota_54 (B1), MiniBoss_54 (B1), MitKao_56 (B1), Morgushi_56 (B1), MrPhizzler_58 (B1), Mulan_56 (B1), Murdoc_55 (B1), Mutante_56 (B1), Nicole21_57 (B1), Nyala_55 (B1), Olak_55 (B1), Oosterbaan_56 (B1), Orfeu_54 (B1), Orion_57 (B1), Orwigg_56 (B1), PG1_57 (B1), Pacifista_55 (B1), Phamished_57 (B1), PhenghisKhan_56 (B1), Phergie_57 (B1), Phleuron_56 (B1), PhrodoBaggins_57 (B1), PinheadLarry_57 (B1), Placalicious_56 (B1), Podrick_54 (B1), ProfessorX_55 (B1), Quisquiliae_57 (B1), Reccee_54 (B5), Ricotta_55 (B1), Rita130_53 (B5), SallyH_57 (B1), Schadenfreude_55 (B1), Schueller_56 (B1), Scoot17C_57 (B1), Selr12_56 (B1), Serendipitous_53 (B5), Serendipity_56 (B1), Sheila_54 (B1), Sigman_57 (B1), Simielle_55 (B1), SirJeffery_53 (B5), Skippy_57 (B1), Slatt_57 (B1), Soile_57 (B1), Squiggle_57 (B1), Swiphy_57 (B1), Swish_57 (B1), Thunderbird_55 (B1), Timmi_55 (B1), Tomlarah_57 (B1), TooFast2Furius_58 (B1), True_55 (B1), TyrionL_56 (B1), UAch1_55 (B1),

Usavi_56 (B1), Virapocalypse_57 (B1), Vivaldi_57 (B1), Waterdiva_56 (B1), Weher20_56 (B1), Zonia_57 (B1),

Start 54:
• Found in 4 of 805 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_104 (Y), Faiyaz_105 (Y), Hilltopfarm_107 (Y), Typha_103 (Y),

Start 55:
• Found in 247 of 805 (30.7%) of genes in pham
• Manual Annotations of this start: 187 of 694
• Called 91.1% of time when present
• Phage (with cluster) where this start called: Ablatia_25 (C1), Ading_26 (C1), Adlitam_26 (C1), Alice_21 (C1), Amataga_26 (C1), ArcherS7_25 (C1), Asterius_27 (C1), Astraea_27 (C1), Atlantean_26 (C1), Audrick_28 (C1), Ava3_27 (C1), Babyland_25 (C1), BackyardAgain_23 (C1), BadAgartude_27 (C1), BananaFence_27 (C1), Bangla1971_25 (C1), Basquiat_25 (C1), BeanWater_22 (C1), Beckerton_70 (H1), Belieber_22 (C1), Bezza_18 (C1), BigCity_30 (C1), Bigswole_32 (C1), Bipolarisk_25 (C1), Blackbrain_24 (C1), Blackdragon_21 (C1), Blubba_20 (C1), BobaPhatt_23 (C1), BobtimousPrime_71 (H1), Bonray_26 (C1), Bowman_25 (C1), Bread_27 (C1), Breeniome_26 (C1), Burrough_26 (C1), Bxz1_27 (C1), Cactojaque_23 (C1), Cali_26 (C1), Cane17_19 (C1), Capablanca_28 (C1), Caravan_24 (C1), Catera_24 (C1), Cborch11_73 (H1), Chargie21_25 (C1), CharlieB_26 (C1), ChaylaJr_25 (C1), ChickenPhender_25 (C1), Chomp_26 (C1), CindyLou_26 (C1), Cleatunium_22 (C1), Colt_19 (C1), Concombre_25 (C1), DTDevon_27 (C1), Daffodil_28 (C1), Damien_71 (H1), Dandelion_30 (C1), Darko_25 (C1), DeejaClivia_22 (C1), Delilah_26 (C1), Delylah_27 (C1), Demodog_24 (C1), Derek_27 (C1), Dessert_24 (C1), Dietrick_21 (C1), DirtMonster_25 (C1), Domi_21 (C1), DrPhinkDaddy_26 (C1), Drazdys_26 (C1), Duckfeet_23 (C1), ET08_21 (C1), EasyJones_25 (C1), EggyFarm_30 (C1), EmToTheThree_29 (C1), EmmaElysia_24 (C1), Erdmann_27 (C1), ErnieJ_27 (C1), Essence_25 (C1), Ewok_26 (C1), Fixie_23 (C1), Flabslab_27 (C1), Fludd_25 (C1), Fongie_26 (C1), FoxtrotP1_26 (C1), FrayBell_32 (C1), FudgeTart_27 (C1), Gabriel_26 (C1), Gamgam_26 (C1), Ghost_26 (C1), Gizmo_28 (C1), GlutenPhree_27 (C1), Grasshills_30 (C1), Grungle_19 (C1), Guwapp_26 (C1), Halldule_22 (C1), HyRo_25 (C1), I3_28 (C1), IkeLoa_22 (C1), InigoMontoya_27 (C1), InterFolia_33 (C1), Iota_23 (C1), Issimir_26 (C1), Izajani_27 (C1), JPickles_24 (C1), Janiyra_26 (C1), JayJay_29 (C1), Jaygup_26 (C1), Jedediah_26 (C1), Jemmno_26 (C1), Jessibeth14_25 (C1), Jezreel_25 (C1), JigglyPuff_26 (C1), JulietS_21 (C1), JustHall_25 (C1), Kamryn_26 (C1), Kboogie_26 (C1), Khaleesi_25 (C1), Koguma_22 (C1), Konstantine_75 (H1), LRRHood_23 (C1), Labradorite_25 (C1), Latch_26 (C1), Lee7_25 (C1), Lethe_25 (C1), LifeSavor_27 (C1), LinStu_26 (C1), Littleton_26 (C1), Loanshark_26 (C1), LolaVinca_29 (C1), LookingGlass_29 (C1), LordLeafolot_32 (C1), Lukilu_19 (C1), Lunareta_25 (C1), Maby2021_27 (C1), Mangeria_29 (C1), Matsumoto_25 (C1), Maturis_26 (C1), McGee_25 (C1), McWolfish_25 (C1), Megamind_26 (C1), Megatron06_72 (H1), Melpomini_25 (C1), MikeLiesIn_26 (C1), Mikro_24 (C1), MoMoMixon_27 (C1), Moby_20 (C1), Moiqah_20 (C1), Momo_25 (C1), Montpel_25 (C1), Morizzled23_25 (C1), Naija_26 (C1), Napoleon13_25 (C1), Nappy_27 (C1), Naval22_28 (C1), NedWong_27 (C1), Ngannou_24 (C1), Nidhogg_27 (C1), NoodleTree_25 (C1), Norm_26 (C1), NuevoMundo_29 (C1), Oaker_71 (H1), OrediggerDelux_25 (C1), ParkTD_25 (C1), Patter_26 (C1), PharkleMinkus_31 (C1), Phlegm_28 (C1), Phox_25

(C1), Phreeze_70 (H1), Phusco_26 (C1), Pier_28 (C1), Pinkcreek_18 (C1), Pio_29 (C1), Pivoine_26 (C1), Pleione_28 (C1), Primadonna_21 (C1), Puissant_72 (H1), Pupusa_33 (C1), PurduePete_25 (C1), QBert_24 (C1), Quasimodo_26 (C1), Rabinovish_25 (C1), Rahel_26 (C1), Rizal_24 (C1), RoMag_21 (C1), Rocha_24 (C1), Ronan_21 (C1), Roots515_26 (C1), SVoro_25 (C1), Salacia_28 (C1), Sauce_27 (C1), ScottMcG_26 (C1), Sebata_26 (C1), Shaqnato_22 (C1), Shelob_28 (C1), ShiaLabeouf_26 (C1), Shifa_23 (C1), Shnickers_26 (C1), Shrimp_26 (C1), SilverDipper_27 (C1), SmallFry_26 (C1), Spec_24 (C1), Specks_31 (C1), Sprinklers_26 (C1), Spud_28 (C1), SrishMeg2525_25 (C1), StephanieG_26 (C1), StubbySaigey_25 (C1), Stubby_24 (C1), Substance289_23 (C1), Tainan_31 (C1), Teardrop_25 (C1), Thumb_72 (H1), TinyTim_26 (C1), Tortoise16_25 (C1), Trinitium_25 (C1), Turret_24 (C1), Tyke_28 (C1), ValleyTerrace_26 (C1), Wally_25 (C1), Willis_26 (C1), Yassified_23 (C1), YemiJoy2021_27 (C1), YoungMoneyMata_26 (C1), Yucca_26 (C1), Zalkecks_28 (C1), Zeenon_28 (C1), ZygoTaiga_26 (C1),

Start 62:
• Found in 35 of 805 (4.3%) of genes in pham
• Manual Annotations of this start: 4 of 694
• Called 14.3% of time when present
• Phage (with cluster) where this start called: BobSwaget_38 (A2), LionsBait_37 (A2), Lokk_39 (A2), Miko_39 (A2), Rachaly_39 (A2),

Start 71:
• Found in 1 of 805 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 694
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Heath_48 (B4),

Start 76:
• Found in 24 of 805 (3.0%) of genes in pham
• No Manual Annotations of this start.
• Called 4.2% of time when present
• Phage (with cluster) where this start called: Ahwei_48 (B4),

Summary by clusters:

There are 27 clusters represented in this pham: K3, K2, K1, K7, K6, A12, I2, A2, A9, C1, AA, AB, AD, I, AH, AJ, O, N, Q, R, T, Y, H1, B4, B5, B1, D1,

Info for manual annotations of cluster A12:
•Start number 50 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:
•Start number 25 was manually annotated 1 time for cluster A2.
•Start number 50 was manually annotated 45 times for cluster A2.
•Start number 62 was manually annotated 4 times for cluster A2.

Info for manual annotations of cluster A9:
•Start number 50 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster AA:
•Start number 36 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AB:
•Start number 45 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AD:
•Start number 33 was manually annotated 1 time for cluster AD.
•Start number 34 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AH:
•Start number 24 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:
•Start number 36 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B1:
•Start number 52 was manually annotated 159 times for cluster B1.
•Start number 53 was manually annotated 119 times for cluster B1.

Info for manual annotations of cluster B4:
•Start number 44 was manually annotated 17 times for cluster B4.
•Start number 71 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:
•Start number 43 was manually annotated 8 times for cluster B5.
•Start number 53 was manually annotated 2 times for cluster B5.

Info for manual annotations of cluster C1:
•Start number 55 was manually annotated 179 times for cluster C1.

Info for manual annotations of cluster D1:
•Start number 46 was manually annotated 21 times for cluster D1.

Info for manual annotations of cluster H1:
•Start number 55 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster I2:
•Start number 18 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:
•Start number 42 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:
•Start number 37 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 23 was manually annotated 1 time for cluster K3.
•Start number 34 was manually annotated 6 times for cluster K3.
•Start number 42 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:
•Start number 42 was manually annotated 15 times for cluster K6.

Info for manual annotations of cluster K7:

•Start number 50 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster N:
•Start number 36 was manually annotated 23 times for cluster N.

Info for manual annotations of cluster O:
•Start number 26 was manually annotated 4 times for cluster O.
•Start number 43 was manually annotated 26 times for cluster O.

Info for manual annotations of cluster Q:
•Start number 28 was manually annotated 15 times for cluster Q.
•Start number 32 was manually annotated 1 time for cluster Q.
•Start number 38 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster R:
•Start number 36 was manually annotated 1 time for cluster R.
•Start number 42 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster T:
•Start number 39 was manually annotated 5 times for cluster T.
•Start number 47 was manually annotated 1 time for cluster T.

Info for manual annotations of cluster Y:
•Start number 54 was manually annotated 3 times for cluster Y.

Gene Information:

Gene: ABU_57 Start: 48858, Stop: 48490, Start Num: 53
Candidate Starts for ABU_57:
(13, 49062), (14, 49017), (17, 48987), (Start: 52 @48861 has 159 MA's), (Start: 53 @48858 has 121 MA's), (67, 48819), (84, 48738), (104, 48576), (105, 48573), (114, 48522),

Gene: AbbyPaige_37 Start: 27571, Stop: 27951, Start Num: 50
Candidate Starts for AbbyPaige_37:
(Start: 50 @27571 has 49 MA's), (80, 27652), (96, 27760), (102, 27811), (104, 27841), (122, 27928),

Gene: Ablatia_25 Start: 7873, Stop: 8229, Start Num: 55
Candidate Starts for Ablatia_25:
(Start: 55 @7873 has 187 MA's), (85, 7987), (98, 8080), (114, 8176),

Gene: AbsoluteMadLad_55 Start: 48570, Stop: 48202, Start Num: 53
Candidate Starts for AbsoluteMadLad_55:
(13, 48774), (14, 48729), (17, 48699), (31, 48612), (Start: 52 @48573 has 159 MA's), (Start: 53 @48570 has 121 MA's), (67, 48531), (84, 48450), (104, 48288), (105, 48285), (114, 48234),

Gene: Acadian_54 Start: 48515, Stop: 48102, Start Num: 43
Candidate Starts for Acadian_54:
(10, 48794), (Start: 43 @48515 has 34 MA's), (101, 48242), (107, 48197), (108, 48194), (113, 48167),

Gene: Acolyte_72 Start: 45510, Stop: 45139, Start Num: 50
Candidate Starts for Acolyte_72:

(15, 45657), (22, 45597), (40, 45528), (Start: 50 @45510 has 49 MA's), (Start: 55 @45501 has 187 MA's), (69, 45459), (81, 45399), (104, 45222), (110, 45198), (114, 45171),

Gene: Ading_26 Start: 8133, Stop: 8489, Start Num: 55
Candidate Starts for Ading_26:
(Start: 55 @8133 has 187 MA's), (85, 8247), (98, 8340), (114, 8436),

Gene: Adjutor_55 Start: 42662, Stop: 43042, Start Num: 46
Candidate Starts for Adjutor_55:
(Start: 46 @42662 has 21 MA's), (63, 42695), (64, 42698), (65, 42701), (79, 42755), (80, 42758), (97, 42878), (114, 42989), (115, 42992),

Gene: Adlitam_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Adlitam_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Adriana_57 Start: 48855, Stop: 48487, Start Num: 53
Candidate Starts for Adriana_57:
(13, 49059), (14, 49014), (17, 48984), (Start: 52 @48858 has 159 MA's), (Start: 53 @48855 has 121 MA's), (67, 48816), (84, 48735), (104, 48573), (105, 48570), (114, 48519),

Gene: Aelin_55 Start: 48137, Stop: 47766, Start Num: 52
Candidate Starts for Aelin_55:
(13, 48338), (14, 48293), (17, 48263), (31, 48176), (Start: 52 @48137 has 159 MA's), (Start: 53 @48134 has 121 MA's), (67, 48095), (82, 48023), (84, 48014), (104, 47852), (105, 47849), (114, 47798),

Gene: Agape74_37 Start: 27547, Stop: 27945, Start Num: 50
Candidate Starts for Agape74_37:
(Start: 50 @27547 has 49 MA's), (Start: 55 @27556 has 187 MA's), (104, 27838), (106, 27844), (113, 27874),

Gene: Ahwei_48 Start: 47074, Stop: 46748, Start Num: 76
Candidate Starts for Ahwei_48:
(Start: 44 @47146 has 17 MA's), (66, 47098), (67, 47095), (76, 47074), (109, 46828), (116, 46792),

Gene: AlanGrant_52 Start: 48916, Stop: 48518, Start Num: 44
Candidate Starts for AlanGrant_52:
(Start: 44 @48916 has 17 MA's), (65, 48871), (66, 48868), (78, 48826), (105, 48619),

Gene: Aleia_57 Start: 48463, Stop: 48092, Start Num: 52
Candidate Starts for Aleia_57:
(13, 48664), (14, 48619), (17, 48589), (31, 48502), (Start: 52 @48463 has 159 MA's), (Start: 53 @48460 has 121 MA's), (67, 48421), (82, 48349), (104, 48178), (105, 48175), (114, 48124),

Gene: Alice_21 Start: 7231, Stop: 7587, Start Num: 55
Candidate Starts for Alice_21:
(Start: 55 @7231 has 187 MA's), (98, 7438), (114, 7534),

Gene: Alkhayr_76 Start: 47301, Stop: 46924, Start Num: 43
Candidate Starts for Alkhayr_76:
(Start: 43 @47301 has 34 MA's), (69, 47241), (73, 47229), (83, 47166), (98, 47073), (100, 47067), (106, 47022), (114, 46977), (124, 46938), (126, 46935),

Gene: AltPhacts_55 Start: 47883, Stop: 47515, Start Num: 53
Candidate Starts for AltPhacts_55:
(13, 48087), (14, 48042), (17, 48012), (31, 47925), (Start: 52 @47886 has 159 MA's), (Start: 53 @47883 has 121 MA's), (67, 47844), (82, 47772), (84, 47763), (104, 47601), (105, 47598), (114, 47547),

Gene: Altwerkus_54 Start: 48025, Stop: 47654, Start Num: 52
Candidate Starts for Altwerkus_54:
(13, 48226), (14, 48181), (17, 48151), (Start: 52 @48025 has 159 MA's), (Start: 53 @48022 has 121 MA's), (67, 47983), (84, 47902), (104, 47740), (105, 47737), (114, 47686),

Gene: Amataga_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Amataga_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Aminay_80 Start: 51264, Stop: 51629, Start Num: 50
Candidate Starts for Aminay_80:
(3, 50760), (9, 50946), (Start: 50 @51264 has 49 MA's), (88, 51402), (113, 51579), (114, 51594),

Gene: Amochick_43 Start: 33322, Stop: 32897, Start Num: 28
Candidate Starts for Amochick_43:
(16, 33415), (21, 33361), (Start: 28 @33322 has 15 MA's), (Start: 38 @33298 has 2 MA's), (59, 33256), (60, 33253), (67, 33232), (75, 33211), (80, 33181), (95, 33079), (113, 32965), (114, 32950), (115, 32947), (119, 32926), (127, 32905),

Gene: Amohnition_72 Start: 50158, Stop: 50541, Start Num: 42
Candidate Starts for Amohnition_72:
(Start: 42 @50158 has 18 MA's), (Start: 45 @50164 has 1 MA's), (68, 50218), (87, 50305), (92, 50344), (98, 50380), (111, 50473), (113, 50482),

Gene: Amymech_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Amymech_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Anderson_57 Start: 48597, Stop: 48226, Start Num: 52
Candidate Starts for Anderson_57:
(13, 48798), (14, 48753), (17, 48723), (Start: 52 @48597 has 159 MA's), (Start: 53 @48594 has 121 MA's), (67, 48555), (84, 48474), (104, 48312), (105, 48309), (114, 48258),

Gene: Andies_40 Start: 29966, Stop: 30364, Start Num: 36
Candidate Starts for Andies_40:
(Start: 36 @29966 has 27 MA's), (Start: 62 @30017 has 4 MA's), (67, 30032), (98, 30215), (100, 30221), (106, 30272), (112, 30293), (113, 30296), (114, 30311), (119, 30335), (124, 30350), (126, 30353),

Gene: Andre_58 Start: 48770, Stop: 48402, Start Num: 53
Candidate Starts for Andre_58:
(13, 48974), (14, 48929), (17, 48899), (Start: 52 @48773 has 159 MA's), (Start: 53 @48770 has 121 MA's), (67, 48731), (84, 48650), (104, 48488), (105, 48485), (114, 48434),

Gene: AngelCake_57 Start: 48655, Stop: 48287, Start Num: 53
Candidate Starts for AngelCake_57:
(13, 48859), (14, 48814), (17, 48784), (Start: 52 @48658 has 159 MA's), (Start: 53 @48655 has 121
MA's), (67, 48616), (84, 48535), (104, 48373), (105, 48370), (114, 48319),

Gene: Anselm_37 Start: 27656, Stop: 28039, Start Num: 50
Candidate Starts for Anselm_37:
(Start: 50 @27656 has 49 MA's), (80, 27740), (96, 27848), (102, 27899), (104, 27929), (122, 28016),

Gene: Antihero_48 Start: 47146, Stop: 46748, Start Num: 44
Candidate Starts for Antihero_48:
(Start: 44 @47146 has 17 MA's), (66, 47098), (67, 47095), (76, 47074), (109, 46828), (116, 46792),

Gene: Antonia_55 Start: 48134, Stop: 47766, Start Num: 53
Candidate Starts for Antonia_55:
(13, 48338), (14, 48293), (17, 48263), (31, 48176), (Start: 52 @48137 has 159 MA's), (Start: 53
@48134 has 121 MA's), (67, 48095), (82, 48023), (84, 48014), (104, 47852), (105, 47849), (114,
47798),

Gene: Aonishiki_57 Start: 48640, Stop: 48269, Start Num: 52
Candidate Starts for Aonishiki_57:
(13, 48841), (14, 48796), (17, 48766), (Start: 52 @48640 has 159 MA's), (Start: 53 @48637 has 121
MA's), (67, 48598), (84, 48517), (104, 48355), (105, 48352), (114, 48301),

Gene: Apex_50 Start: 48386, Stop: 47988, Start Num: 44
Candidate Starts for Apex_50:
(5, 48719), (Start: 44 @48386 has 17 MA's), (66, 48338), (67, 48335), (76, 48314), (105, 48089), (109,
48068), (116, 48032),

Gene: Apizium_55 Start: 47731, Stop: 47360, Start Num: 52
Candidate Starts for Apizium_55:
(13, 47932), (14, 47887), (17, 47857), (31, 47770), (Start: 52 @47731 has 159 MA's), (Start: 53
@47728 has 121 MA's), (67, 47689), (82, 47617), (104, 47446), (105, 47443), (114, 47392),

Gene: Applecrisp_71 Start: 49732, Stop: 50115, Start Num: 42
Candidate Starts for Applecrisp_71:
(Start: 42 @49732 has 18 MA's), (Start: 45 @49738 has 1 MA's), (68, 49792), (87, 49879), (90, 49897),
(92, 49918), (102, 49990), (111, 50047), (113, 50056),

Gene: ArcherS7_25 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for ArcherS7_25:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Ashraf_57 Start: 48338, Stop: 47967, Start Num: 52
Candidate Starts for Ashraf_57:
(5, 48698), (13, 48539), (14, 48494), (17, 48464), (Start: 52 @48338 has 159 MA's), (Start: 53 @48335
has 121 MA's), (67, 48296), (73, 48278), (82, 48224), (84, 48215), (104, 48053), (105, 48050), (114,
47999),

Gene: Ashwin_77 Start: 48095, Stop: 47670, Start Num: 26
Candidate Starts for Ashwin_77:
(Start: 26 @48095 has 4 MA's), (Start: 43 @48047 has 34 MA's), (69, 47987), (73, 47975), (83, 47912),
(98, 47819), (100, 47813), (106, 47768), (114, 47723), (124, 47684), (126, 47681),

Gene: Asterius_27 Start: 8422, Stop: 8778, Start Num: 55
Candidate Starts for Asterius_27:
(Start: 55 @8422 has 187 MA's), (85, 8536), (98, 8629), (114, 8725),

Gene: Astraea_27 Start: 8327, Stop: 8683, Start Num: 55
Candidate Starts for Astraea_27:
(Start: 55 @8327 has 187 MA's), (98, 8534), (114, 8630),

Gene: Atlantean_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Atlantean_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Audrick_28 Start: 8133, Stop: 8489, Start Num: 55
Candidate Starts for Audrick_28:
(Start: 55 @8133 has 187 MA's), (85, 8247), (98, 8340), (114, 8436),

Gene: AuntGwenStacy_104 Start: 64757, Stop: 65095, Start Num: 54
Candidate Starts for AuntGwenStacy_104:
(Start: 54 @64757 has 3 MA's), (59, 64769), (72, 64808), (73, 64811), (100, 64967),

Gene: Austelle_50 Start: 48836, Stop: 48438, Start Num: 44
Candidate Starts for Austelle_50:
(Start: 44 @48836 has 17 MA's), (66, 48788), (67, 48785), (76, 48764), (105, 48539), (109, 48518), (116, 48482),

Gene: Ava3_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Ava3_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Babyland_25 Start: 7595, Stop: 7951, Start Num: 55
Candidate Starts for Babyland_25:
(Start: 55 @7595 has 187 MA's), (98, 7802), (114, 7898),

Gene: BackyardAgain_23 Start: 7579, Stop: 7935, Start Num: 55
Candidate Starts for BackyardAgain_23:
(Start: 55 @7579 has 187 MA's), (85, 7693), (98, 7786), (114, 7882),

Gene: BadAgartude_27 Start: 8789, Stop: 9145, Start Num: 55
Candidate Starts for BadAgartude_27:
(Start: 55 @8789 has 187 MA's), (98, 8996), (114, 9092),

Gene: Badfish_57 Start: 48880, Stop: 48512, Start Num: 53
Candidate Starts for Badfish_57:
(13, 49084), (14, 49039), (17, 49009), (Start: 52 @48883 has 159 MA's), (Start: 53 @48880 has 121 MA's), (67, 48841), (84, 48760), (104, 48598), (105, 48595), (114, 48544),

Gene: Baee_55 Start: 49794, Stop: 49378, Start Num: 43
Candidate Starts for Baee_55:
(4, 50172), (6, 50127), (7, 50124), (10, 50073), (Start: 43 @49794 has 34 MA's), (Start: 53 @49776 has 121 MA's), (72, 49722), (116, 49422), (119, 49389),

Gene: Baehexic_36 Start: 27724, Stop: 28119, Start Num: 50

Candidate Starts for Baehexic_36:
(Start: 50 @27724 has 49 MA's), (102, 27982), (104, 28012), (113, 28048),

Gene: BananaFence_27 Start: 8586, Stop: 8942, Start Num: 55
Candidate Starts for BananaFence_27:
(Start: 55 @8586 has 187 MA's), (98, 8793), (114, 8889),

Gene: Bangla1971_25 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Bangla1971_25:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Banjo_55 Start: 48330, Stop: 47959, Start Num: 52
Candidate Starts for Banjo_55:
(13, 48531), (14, 48486), (17, 48456), (Start: 52 @48330 has 159 MA's), (Start: 53 @48327 has 121 MA's), (67, 48288), (82, 48216), (104, 48045), (105, 48042), (114, 47991),

Gene: Basato_56 Start: 48605, Stop: 48234, Start Num: 52
Candidate Starts for Basato_56:
(13, 48806), (14, 48761), (17, 48731), (31, 48644), (Start: 52 @48605 has 159 MA's), (Start: 53 @48602 has 121 MA's), (67, 48563), (84, 48482), (104, 48320), (105, 48317), (114, 48266),

Gene: Basquiat_25 Start: 7576, Stop: 7932, Start Num: 55
Candidate Starts for Basquiat_25:
(Start: 55 @7576 has 187 MA's), (98, 7783), (114, 7879),

Gene: BatteryCK_56 Start: 48278, Stop: 47907, Start Num: 52
Candidate Starts for BatteryCK_56:
(5, 48638), (13, 48479), (14, 48434), (17, 48404), (Start: 52 @48278 has 159 MA's), (Start: 53 @48275 has 121 MA's), (67, 48236), (73, 48218), (82, 48164), (84, 48155), (104, 47993), (105, 47990), (114, 47939),

Gene: Beaglebox_56 Start: 48433, Stop: 48065, Start Num: 53
Candidate Starts for Beaglebox_56:
(13, 48637), (14, 48592), (17, 48562), (Start: 52 @48436 has 159 MA's), (Start: 53 @48433 has 121 MA's), (67, 48394), (84, 48313), (104, 48151), (105, 48148), (114, 48097),

Gene: BeanWater_22 Start: 8264, Stop: 8620, Start Num: 55
Candidate Starts for BeanWater_22:
(Start: 55 @8264 has 187 MA's), (85, 8378), (98, 8471), (114, 8567),

Gene: Beckerton_70 Start: 52660, Stop: 53028, Start Num: 55
Candidate Starts for Beckerton_70:
(Start: 55 @52660 has 187 MA's), (64, 52687), (69, 52699), (80, 52747), (81, 52762), (103, 52924), (113, 52960), (115, 52978),

Gene: Belieber_22 Start: 7343, Stop: 7699, Start Num: 55
Candidate Starts for Belieber_22:
(Start: 55 @7343 has 187 MA's), (98, 7550), (114, 7646),

Gene: Bernal13_40 Start: 31063, Stop: 31446, Start Num: 47
Candidate Starts for Bernal13_40:
(11, 30802), (Start: 39 @31045 has 5 MA's), (Start: 47 @31063 has 1 MA's), (87, 31219), (94, 31270), (98, 31294), (114, 31414), (115, 31417),

Gene: Bezza_18 Start: 7222, Stop: 7578, Start Num: 55
Candidate Starts for Bezza_18:
(Start: 55 @7222 has 187 MA's), (98, 7429), (114, 7525),

Gene: BigCity_30 Start: 9676, Stop: 10035, Start Num: 55
Candidate Starts for BigCity_30:
(Start: 55 @9676 has 187 MA's), (85, 9790), (98, 9883), (114, 9982),

Gene: BigMama_54 Start: 42738, Stop: 43118, Start Num: 46
Candidate Starts for BigMama_54:
(Start: 46 @42738 has 21 MA's), (63, 42771), (64, 42774), (65, 42777), (79, 42831), (80, 42834), (97, 42954), (114, 43065), (115, 43068),

Gene: Bigswole_32 Start: 10214, Stop: 10570, Start Num: 55
Candidate Starts for Bigswole_32:
(Start: 55 @10214 has 187 MA's), (85, 10328), (98, 10421), (114, 10517),

Gene: Bipolarisk_25 Start: 8416, Stop: 8772, Start Num: 55
Candidate Starts for Bipolarisk_25:
(Start: 55 @8416 has 187 MA's), (85, 8530), (98, 8623), (114, 8719),

Gene: Bishoperium_56 Start: 48869, Stop: 48498, Start Num: 52
Candidate Starts for Bishoperium_56:
(13, 49070), (14, 49025), (17, 48995), (Start: 52 @48869 has 159 MA's), (Start: 53 @48866 has 121 MA's), (67, 48827), (84, 48746), (104, 48584), (105, 48581), (114, 48530),

Gene: BlackStallion_57 Start: 48331, Stop: 47960, Start Num: 52
Candidate Starts for BlackStallion_57:
(13, 48532), (14, 48487), (17, 48457), (Start: 52 @48331 has 159 MA's), (Start: 53 @48328 has 121 MA's), (67, 48289), (84, 48208), (104, 48046), (105, 48043), (114, 47992),

Gene: Blackbrain_24 Start: 7392, Stop: 7748, Start Num: 55
Candidate Starts for Blackbrain_24:
(Start: 55 @7392 has 187 MA's), (98, 7599), (114, 7695),

Gene: Blackdragon_21 Start: 7190, Stop: 7546, Start Num: 55
Candidate Starts for Blackdragon_21:
(Start: 55 @7190 has 187 MA's), (98, 7397), (114, 7493),

Gene: BlacksBerry_55 Start: 48028, Stop: 47657, Start Num: 52
Candidate Starts for BlacksBerry_55:
(5, 48388), (13, 48229), (14, 48184), (17, 48154), (31, 48067), (Start: 52 @48028 has 159 MA's), (Start: 53 @48025 has 121 MA's), (84, 47905), (104, 47743), (105, 47740), (114, 47689),

Gene: Blessica_76 Start: 47851, Stop: 47474, Start Num: 43
Candidate Starts for Blessica_76:
(Start: 43 @47851 has 34 MA's), (69, 47791), (73, 47779), (83, 47716), (98, 47623), (100, 47617), (106, 47572), (114, 47527), (124, 47488), (126, 47485),

Gene: BloominB_43 Start: 33292, Stop: 32891, Start Num: 38
Candidate Starts for BloominB_43:

(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Blubba_20 Start: 6880, Stop: 7236, Start Num: 55
Candidate Starts for Blubba_20:
(Start: 55 @6880 has 187 MA's), (85, 6994), (98, 7087), (114, 7183),

Gene: BlueHusk_57 Start: 48153, Stop: 47782, Start Num: 52
Candidate Starts for BlueHusk_57:
(13, 48354), (14, 48309), (17, 48279), (31, 48192), (Start: 52 @48153 has 159 MA's), (Start: 53 @48150 has 121 MA's), (67, 48111), (84, 48030), (104, 47868), (105, 47865), (114, 47814),

Gene: Bluephacebaby_56 Start: 48872, Stop: 48501, Start Num: 52
Candidate Starts for Bluephacebaby_56:
(13, 49073), (14, 49028), (17, 48998), (Start: 52 @48872 has 159 MA's), (Start: 53 @48869 has 121 MA's), (67, 48830), (84, 48749), (104, 48587), (105, 48584), (114, 48533),

Gene: Bluvara_47 Start: 35598, Stop: 35996, Start Num: 34
Candidate Starts for Bluvara_47:
(19, 35541), (Start: 34 @35598 has 8 MA's), (Start: 55 @35628 has 187 MA's), (67, 35664), (98, 35847), (100, 35853), (103, 35892), (106, 35904), (112, 35925), (113, 35928), (114, 35943), (124, 35982), (126, 35985),

Gene: BobSwaget_38 Start: 27978, Stop: 28349, Start Num: 62
Candidate Starts for BobSwaget_38:
(Start: 62 @27978 has 4 MA's), (87, 28095), (98, 28170), (104, 28236), (113, 28272), (119, 28311), (122, 28323), (126, 28329),

Gene: BobaPhatt_23 Start: 7587, Stop: 7943, Start Num: 55
Candidate Starts for BobaPhatt_23:
(Start: 55 @7587 has 187 MA's), (98, 7794), (114, 7890),

Gene: BobtimousPrime_71 Start: 52962, Stop: 53330, Start Num: 55
Candidate Starts for BobtimousPrime_71:
(Start: 55 @52962 has 187 MA's), (64, 52989), (69, 53001), (80, 53049), (81, 53064), (103, 53226), (113, 53262), (115, 53280),

Gene: Boehler_55 Start: 48311, Stop: 47943, Start Num: 53
Candidate Starts for Boehler_55:
(8, 48659), (13, 48515), (14, 48470), (17, 48440), (31, 48353), (Start: 52 @48314 has 159 MA's), (Start: 53 @48311 has 121 MA's), (84, 48191), (104, 48029), (105, 48026), (114, 47975),

Gene: Bonray_26 Start: 8690, Stop: 9046, Start Num: 55
Candidate Starts for Bonray_26:
(Start: 55 @8690 has 187 MA's), (85, 8804), (98, 8897), (114, 8993),

Gene: BoogieWoogie_57 Start: 48347, Stop: 47976, Start Num: 52
Candidate Starts for BoogieWoogie_57:
(13, 48548), (14, 48503), (17, 48473), (Start: 52 @48347 has 159 MA's), (Start: 53 @48344 has 121 MA's), (67, 48305), (84, 48224), (104, 48062), (105, 48059), (114, 48008),

Gene: BoostSeason_40 Start: 31401, Stop: 31018, Start Num: 37

Candidate Starts for BoostSeason_40:
(35, 31404), (Start: 37 @31401 has 11 MA's), (68, 31341), (81, 31278), (90, 31227), (95, 31191), (98, 31170), (106, 31098), (114, 31053),

Gene: Bora_73 Start: 47232, Stop: 46855, Start Num: 43
Candidate Starts for Bora_73:
(Start: 43 @47232 has 34 MA's), (69, 47172), (73, 47160), (83, 47097), (98, 47004), (100, 46998), (106, 46953), (114, 46908), (124, 46869), (126, 46866),

Gene: Bowman_25 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Bowman_25:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Bread_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Bread_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Breeniome_26 Start: 7573, Stop: 7929, Start Num: 55
Candidate Starts for Breeniome_26:
(Start: 55 @7573 has 187 MA's), (85, 7687), (98, 7780), (114, 7876),

Gene: Brilliant_58 Start: 48872, Stop: 48501, Start Num: 52
Candidate Starts for Brilliant_58:
(5, 49232), (13, 49073), (14, 49028), (17, 48998), (Start: 52 @48872 has 159 MA's), (Start: 53 @48869 has 121 MA's), (67, 48830), (84, 48749), (104, 48587), (105, 48584), (114, 48533),

Gene: Buckeye_55 Start: 48383, Stop: 48012, Start Num: 52
Candidate Starts for Buckeye_55:
(13, 48584), (14, 48539), (17, 48509), (Start: 52 @48383 has 159 MA's), (Start: 53 @48380 has 121 MA's), (67, 48341), (84, 48260), (104, 48098), (105, 48095), (114, 48044),

Gene: Bugsy_38 Start: 27869, Stop: 28264, Start Num: 50
Candidate Starts for Bugsy_38:
(Start: 50 @27869 has 49 MA's), (102, 28127), (104, 28157), (113, 28193),

Gene: Burr_56 Start: 48344, Stop: 47976, Start Num: 53
Candidate Starts for Burr_56:
(13, 48548), (14, 48503), (17, 48473), (Start: 52 @48347 has 159 MA's), (Start: 53 @48344 has 121 MA's), (67, 48305), (84, 48224), (104, 48062), (105, 48059), (114, 48008),

Gene: Burrough_26 Start: 8416, Stop: 8772, Start Num: 55
Candidate Starts for Burrough_26:
(Start: 55 @8416 has 187 MA's), (85, 8530), (98, 8623), (114, 8719),

Gene: Butterscotch_55 Start: 42722, Stop: 43102, Start Num: 46
Candidate Starts for Butterscotch_55:
(Start: 46 @42722 has 21 MA's), (63, 42755), (64, 42758), (65, 42761), (79, 42815), (80, 42818), (97, 42938), (114, 43049), (115, 43052),

Gene: Bxz1_27 Start: 9159, Stop: 9515, Start Num: 55
Candidate Starts for Bxz1_27:
(Start: 55 @9159 has 187 MA's), (85, 9273), (98, 9366), (114, 9462),

Gene: Cactojaque_23 Start: 7281, Stop: 7637, Start Num: 55
Candidate Starts for Cactojaque_23:
(Start: 55 @7281 has 187 MA's), (98, 7488), (114, 7584),

Gene: Cali_26 Start: 9723, Stop: 10079, Start Num: 55
Candidate Starts for Cali_26:
(Start: 55 @9723 has 187 MA's), (98, 9930), (114, 10026),

Gene: CamL_56 Start: 48637, Stop: 48266, Start Num: 52
Candidate Starts for CamL_56:
(13, 48838), (14, 48793), (17, 48763), (Start: 52 @48637 has 159 MA's), (Start: 53 @48634 has 121
MA's), (67, 48595), (82, 48523), (104, 48352), (105, 48349), (114, 48298),

Gene: CampRoach_58 Start: 48777, Stop: 48406, Start Num: 52
Candidate Starts for CampRoach_58:
(13, 48978), (14, 48933), (17, 48903), (Start: 52 @48777 has 159 MA's), (Start: 53 @48774 has 121
MA's), (67, 48735), (84, 48654), (104, 48492), (105, 48489), (114, 48438),

Gene: Cane17_19 Start: 6752, Stop: 7108, Start Num: 55
Candidate Starts for Cane17_19:
(Start: 55 @6752 has 187 MA's), (85, 6866), (98, 6959), (114, 7055),

Gene: Cannibal_56 Start: 48620, Stop: 48249, Start Num: 52
Candidate Starts for Cannibal_56:
(13, 48821), (14, 48776), (17, 48746), (31, 48659), (Start: 52 @48620 has 159 MA's), (Start: 53
@48617 has 121 MA's), (67, 48578), (82, 48506), (104, 48335), (105, 48332), (114, 48281),

Gene: Capablanca_28 Start: 9279, Stop: 9635, Start Num: 55
Candidate Starts for Capablanca_28:
(Start: 55 @9279 has 187 MA's), (85, 9393), (98, 9486), (114, 9582),

Gene: Caravan_24 Start: 7690, Stop: 8046, Start Num: 55
Candidate Starts for Caravan_24:
(Start: 55 @7690 has 187 MA's), (85, 7804), (98, 7897), (114, 7993),

Gene: Carcharodon_42 Start: 30650, Stop: 31048, Start Num: 36
Candidate Starts for Carcharodon_42:
(Start: 36 @30650 has 27 MA's), (Start: 62 @30701 has 4 MA's), (67, 30716), (98, 30899), (100,
30905), (106, 30956), (112, 30977), (113, 30980), (114, 30995), (119, 31019), (124, 31034), (126,
31037),

Gene: Carthage_54 Start: 47615, Stop: 47244, Start Num: 52
Candidate Starts for Carthage_54:
(13, 47816), (14, 47771), (17, 47741), (31, 47654), (Start: 52 @47615 has 159 MA's), (Start: 53
@47612 has 121 MA's), (67, 47573), (73, 47555), (84, 47492), (104, 47330), (105, 47327), (114,
47276),

Gene: Caspiboi_56 Start: 48348, Stop: 47980, Start Num: 53
Candidate Starts for Caspiboi_56:
(5, 48711), (13, 48552), (14, 48507), (17, 48477), (Start: 52 @48351 has 159 MA's), (Start: 53 @48348
has 121 MA's), (67, 48309), (73, 48291), (82, 48237), (84, 48228), (104, 48066), (105, 48063), (114,
48012),

Gene: Catdawg_75 Start: 47587, Stop: 47210, Start Num: 43
Candidate Starts for Catdawg_75:
(Start: 43 @47587 has 34 MA's), (69, 47527), (73, 47515), (83, 47452), (98, 47359), (100, 47353), (106, 47308), (114, 47263), (124, 47224), (126, 47221),

Gene: Catera_24 Start: 7577, Stop: 7933, Start Num: 55
Candidate Starts for Catera_24:
(Start: 55 @7577 has 187 MA's), (85, 7691), (98, 7784), (114, 7880),

Gene: Cborch11_73 Start: 52182, Stop: 52571, Start Num: 55
Candidate Starts for Cborch11_73:
(Start: 55 @52182 has 187 MA's), (64, 52209), (69, 52221), (79, 52266), (80, 52269), (85, 52299), (103, 52449), (117, 52521),

Gene: Centaur_37 Start: 27702, Stop: 28097, Start Num: 50
Candidate Starts for Centaur_37:
(Start: 50 @27702 has 49 MA's), (102, 27960), (104, 27990), (113, 28026),

Gene: Chaelin_57 Start: 48867, Stop: 48496, Start Num: 52
Candidate Starts for Chaelin_57:
(13, 49068), (14, 49023), (17, 48993), (Start: 52 @48867 has 159 MA's), (Start: 53 @48864 has 121 MA's), (67, 48825), (84, 48744), (104, 48582), (105, 48579), (114, 48528),

Gene: Chah_58 Start: 48321, Stop: 47953, Start Num: 53
Candidate Starts for Chah_58:
(13, 48525), (14, 48480), (17, 48450), (Start: 52 @48324 has 159 MA's), (Start: 53 @48321 has 121 MA's), (67, 48282), (84, 48201), (104, 48039), (105, 48036), (114, 47985),

Gene: Chargie21_25 Start: 7576, Stop: 7932, Start Num: 55
Candidate Starts for Chargie21_25:
(Start: 55 @7576 has 187 MA's), (98, 7783), (114, 7879),

Gene: Charles1_57 Start: 48633, Stop: 48262, Start Num: 52
Candidate Starts for Charles1_57:
(5, 48993), (13, 48834), (14, 48789), (17, 48759), (31, 48672), (Start: 52 @48633 has 159 MA's), (Start: 53 @48630 has 121 MA's), (84, 48510), (104, 48348), (105, 48345), (114, 48294),

Gene: CharlieB_26 Start: 7730, Stop: 8086, Start Num: 55
Candidate Starts for CharlieB_26:
(Start: 55 @7730 has 187 MA's), (98, 7937), (114, 8033),

Gene: CharlieGBrown_56 Start: 48220, Stop: 47852, Start Num: 53
Candidate Starts for CharlieGBrown_56:
(8, 48568), (13, 48424), (14, 48379), (17, 48349), (Start: 52 @48223 has 159 MA's), (Start: 53 @48220 has 121 MA's), (67, 48181), (73, 48163), (82, 48109), (84, 48100), (104, 47938), (105, 47935), (114, 47884),

Gene: Charm_35 Start: 26987, Stop: 27367, Start Num: 50
Candidate Starts for Charm_35:
(Start: 50 @26987 has 49 MA's), (Start: 62 @27017 has 4 MA's), (79, 27068), (94, 27170), (102, 27230), (104, 27260), (113, 27296),

Gene: ChaylaJr_25 Start: 7663, Stop: 8019, Start Num: 55

Candidate Starts for ChaylaJr_25:
(Start: 55 @7663 has 187 MA's), (98, 7870), (114, 7966),

Gene: CheetO_55 Start: 48353, Stop: 47982, Start Num: 52
Candidate Starts for CheetO_55:
(13, 48554), (14, 48509), (17, 48479), (31, 48392), (Start: 52 @48353 has 159 MA's), (Start: 53 @48350 has 121 MA's), (67, 48311), (84, 48230), (104, 48068), (105, 48065), (114, 48014),

Gene: Cher_56 Start: 48886, Stop: 48518, Start Num: 53
Candidate Starts for Cher_56:
(13, 49090), (14, 49045), (17, 49015), (Start: 52 @48889 has 159 MA's), (Start: 53 @48886 has 121 MA's), (67, 48847), (84, 48766), (104, 48604), (105, 48601), (114, 48550),

Gene: Chewbacca_44 Start: 30650, Stop: 31048, Start Num: 36
Candidate Starts for Chewbacca_44:
(Start: 36 @30650 has 27 MA's), (Start: 62 @30701 has 4 MA's), (67, 30716), (98, 30899), (100, 30905), (106, 30956), (112, 30977), (113, 30980), (114, 30995), (119, 31019), (124, 31034), (126, 31037),

Gene: ChickenPhender_25 Start: 7621, Stop: 7977, Start Num: 55
Candidate Starts for ChickenPhender_25:
(Start: 55 @7621 has 187 MA's), (98, 7828), (114, 7924),

Gene: Childish_56 Start: 48899, Stop: 48528, Start Num: 52
Candidate Starts for Childish_56:
(13, 49100), (14, 49055), (17, 49025), (Start: 52 @48899 has 159 MA's), (Start: 53 @48896 has 121 MA's), (67, 48857), (82, 48785), (104, 48614), (105, 48611), (114, 48560),

Gene: Chill_58 Start: 42785, Stop: 43165, Start Num: 46
Candidate Starts for Chill_58:
(Start: 46 @42785 has 21 MA's), (63, 42818), (64, 42821), (65, 42824), (79, 42878), (80, 42881), (97, 43001), (114, 43112), (115, 43115),

Gene: ChipMunk_38 Start: 28998, Stop: 29381, Start Num: 50
Candidate Starts for ChipMunk_38:
(Start: 50 @28998 has 49 MA's), (80, 29082), (96, 29190), (102, 29241), (104, 29271), (122, 29358),

Gene: Chipette_57 Start: 48584, Stop: 48213, Start Num: 52
Candidate Starts for Chipette_57:
(13, 48785), (14, 48740), (17, 48710), (31, 48623), (Start: 52 @48584 has 159 MA's), (Start: 53 @48581 has 121 MA's), (67, 48542), (84, 48461), (104, 48299), (105, 48296), (114, 48245),

Gene: Chomp_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Chomp_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Chorkpop_56 Start: 48376, Stop: 48005, Start Num: 52
Candidate Starts for Chorkpop_56:
(13, 48577), (14, 48532), (17, 48502), (Start: 52 @48376 has 159 MA's), (Start: 53 @48373 has 121 MA's), (67, 48334), (82, 48262), (104, 48091), (105, 48088), (114, 48037),

Gene: ChrisnMich_49 Start: 47148, Stop: 46750, Start Num: 44
Candidate Starts for ChrisnMich_49:

(5, 47481), (Start: 44 @47148 has 17 MA's), (66, 47100), (67, 47097), (76, 47076), (109, 46830), (116, 46794),

Gene: Chuni_57 Start: 48894, Stop: 48523, Start Num: 52
Candidate Starts for Chuni_57:
(13, 49095), (14, 49050), (17, 49020), (Start: 52 @48894 has 159 MA's), (Start: 53 @48891 has 121 MA's), (67, 48852), (104, 48609), (105, 48606), (114, 48555),

Gene: Chunky_54 Start: 47683, Stop: 47312, Start Num: 52
Candidate Starts for Chunky_54:
(13, 47884), (14, 47839), (17, 47809), (31, 47722), (Start: 52 @47683 has 159 MA's), (Start: 53 @47680 has 121 MA's), (67, 47641), (84, 47560), (104, 47398), (105, 47395), (114, 47344),

Gene: Chute_56 Start: 48694, Stop: 48323, Start Num: 52
Candidate Starts for Chute_56:
(5, 49054), (13, 48895), (14, 48850), (17, 48820), (31, 48733), (Start: 52 @48694 has 159 MA's), (Start: 53 @48691 has 121 MA's), (84, 48571), (104, 48409), (105, 48406), (114, 48355),

Gene: CindyLou_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for CindyLou_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Cleatunium_22 Start: 7852, Stop: 8208, Start Num: 55
Candidate Starts for Cleatunium_22:
(Start: 55 @7852 has 187 MA's), (85, 7966), (98, 8059), (114, 8155),

Gene: Cobra_57 Start: 48665, Stop: 48297, Start Num: 53
Candidate Starts for Cobra_57:
(13, 48869), (14, 48824), (17, 48794), (Start: 52 @48668 has 159 MA's), (Start: 53 @48665 has 121 MA's), (67, 48626), (84, 48545), (104, 48383), (105, 48380), (114, 48329),

Gene: Colbert_54 Start: 47732, Stop: 47364, Start Num: 53
Candidate Starts for Colbert_54:
(13, 47936), (14, 47891), (17, 47861), (31, 47774), (Start: 52 @47735 has 159 MA's), (Start: 53 @47732 has 121 MA's), (67, 47693), (84, 47612), (104, 47450), (105, 47447), (114, 47396),

Gene: Coletti_57 Start: 48694, Stop: 48323, Start Num: 52
Candidate Starts for Coletti_57:
(5, 49054), (13, 48895), (14, 48850), (17, 48820), (31, 48733), (Start: 52 @48694 has 159 MA's), (Start: 53 @48691 has 121 MA's), (84, 48571), (104, 48409), (105, 48406), (114, 48355),

Gene: Colt_19 Start: 6758, Stop: 7114, Start Num: 55
Candidate Starts for Colt_19:
(Start: 55 @6758 has 187 MA's), (85, 6872), (98, 6965), (114, 7061),

Gene: Concombre_25 Start: 8646, Stop: 9002, Start Num: 55
Candidate Starts for Concombre_25:
(Start: 55 @8646 has 187 MA's), (85, 8760), (98, 8853), (114, 8949),

Gene: Cooper_50 Start: 47373, Stop: 46969, Start Num: 44
Candidate Starts for Cooper_50:
(Start: 44 @47373 has 17 MA's), (66, 47325), (67, 47322), (76, 47301), (78, 47283), (109, 47049), (116, 47013),

Gene: Cornbread_56 Start: 48356, Stop: 47988, Start Num: 53
Candidate Starts for Cornbread_56:
(13, 48560), (14, 48515), (17, 48485), (Start: 52 @48359 has 159 MA's), (Start: 53 @48356 has 121 MA's), (67, 48317), (84, 48236), (104, 48074), (105, 48071), (114, 48020),

Gene: Corndog_78 Start: 48615, Stop: 48190, Start Num: 26
Candidate Starts for Corndog_78:
(Start: 26 @48615 has 4 MA's), (Start: 43 @48567 has 34 MA's), (69, 48507), (73, 48495), (83, 48432), (98, 48339), (100, 48333), (106, 48288), (114, 48243), (124, 48204), (126, 48201),

Gene: Cornobble_55 Start: 48290, Stop: 47919, Start Num: 52
Candidate Starts for Cornobble_55:
(13, 48491), (14, 48446), (17, 48416), (31, 48329), (Start: 52 @48290 has 159 MA's), (Start: 53 @48287 has 121 MA's), (67, 48248), (82, 48176), (104, 48005), (105, 48002), (114, 47951),

Gene: Cosmolli16_57 Start: 49079, Stop: 48708, Start Num: 52
Candidate Starts for Cosmolli16_57:
(13, 49280), (14, 49235), (17, 49205), (Start: 52 @49079 has 159 MA's), (Start: 53 @49076 has 121 MA's), (67, 49037), (82, 48965), (104, 48794), (105, 48791), (114, 48740),

Gene: Craff_59 Start: 49324, Stop: 48953, Start Num: 52
Candidate Starts for Craff_59:
(13, 49525), (14, 49480), (17, 49450), (Start: 52 @49324 has 159 MA's), (Start: 53 @49321 has 121 MA's), (67, 49282), (84, 49201), (104, 49039), (105, 49036), (114, 48985),

Gene: Crownjwl_56 Start: 48353, Stop: 47985, Start Num: 53
Candidate Starts for Crownjwl_56:
(13, 48557), (14, 48512), (17, 48482), (31, 48395), (Start: 52 @48356 has 159 MA's), (Start: 53 @48353 has 121 MA's), (67, 48314), (82, 48242), (84, 48233), (104, 48071), (105, 48068), (114, 48017),

Gene: Crucio_36 Start: 27264, Stop: 27647, Start Num: 50
Candidate Starts for Crucio_36:
(Start: 50 @27264 has 49 MA's), (80, 27348), (96, 27456), (102, 27507), (104, 27537), (122, 27624),

Gene: DTDevon_27 Start: 9318, Stop: 9674, Start Num: 55
Candidate Starts for DTDevon_27:
(Start: 55 @9318 has 187 MA's), (85, 9432), (98, 9525), (114, 9621),

Gene: DaddyDaniels_58 Start: 48853, Stop: 48485, Start Num: 53
Candidate Starts for DaddyDaniels_58:
(5, 49216), (13, 49057), (14, 49012), (17, 48982), (Start: 52 @48856 has 159 MA's), (Start: 53 @48853 has 121 MA's), (67, 48814), (82, 48742), (104, 48571), (105, 48568), (114, 48517),

Gene: Daffodil_28 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Daffodil_28:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Daffy_56 Start: 48362, Stop: 47991, Start Num: 52
Candidate Starts for Daffy_56:
(13, 48563), (14, 48518), (17, 48488), (Start: 52 @48362 has 159 MA's), (Start: 53 @48359 has 121 MA's), (67, 48320), (82, 48248), (104, 48077), (105, 48074), (114, 48023),

Gene: Daka_58 Start: 48633, Stop: 48265, Start Num: 53
Candidate Starts for Daka_58:
(13, 48837), (14, 48792), (17, 48762), (31, 48675), (Start: 52 @48636 has 159 MA's), (Start: 53 @48633 has 121 MA's), (67, 48594), (73, 48576), (84, 48513), (104, 48351), (105, 48348), (114, 48297),

Gene: Dalmatian_37 Start: 27632, Stop: 28015, Start Num: 50
Candidate Starts for Dalmatian_37:
(Start: 50 @27632 has 49 MA's), (80, 27716), (96, 27824), (102, 27875), (104, 27905), (122, 27992),

Gene: Damien_71 Start: 52144, Stop: 52533, Start Num: 55
Candidate Starts for Damien_71:
(Start: 55 @52144 has 187 MA's), (64, 52171), (66, 52177), (69, 52183), (79, 52228), (80, 52231), (85, 52261), (103, 52411), (117, 52483),

Gene: Dandelion_30 Start: 10013, Stop: 10369, Start Num: 55
Candidate Starts for Dandelion_30:
(Start: 55 @10013 has 187 MA's), (85, 10127), (98, 10220), (114, 10316),

Gene: Darko_25 Start: 8555, Stop: 8911, Start Num: 55
Candidate Starts for Darko_25:
(Start: 55 @8555 has 187 MA's), (98, 8762), (114, 8858),

Gene: DarthP_72 Start: 50015, Stop: 50398, Start Num: 42
Candidate Starts for DarthP_72:
(Start: 42 @50015 has 18 MA's), (Start: 45 @50021 has 1 MA's), (68, 50075), (87, 50162), (92, 50201), (98, 50237), (111, 50330), (113, 50339),

Gene: DarthPhader_38 Start: 29146, Stop: 29526, Start Num: 50
Candidate Starts for DarthPhader_38:
(Start: 50 @29146 has 49 MA's), (Start: 62 @29176 has 4 MA's), (104, 29419), (106, 29425),

Gene: Dati_56 Start: 48891, Stop: 48523, Start Num: 53
Candidate Starts for Dati_56:
(13, 49095), (14, 49050), (17, 49020), (Start: 52 @48894 has 159 MA's), (Start: 53 @48891 has 121 MA's), (67, 48852), (84, 48771), (104, 48609), (105, 48606), (114, 48555),

Gene: DeejaClivia_22 Start: 7240, Stop: 7596, Start Num: 55
Candidate Starts for DeejaClivia_22:
(Start: 55 @7240 has 187 MA's), (98, 7447), (114, 7543),

Gene: DelRivs_55 Start: 48336, Stop: 47968, Start Num: 53
Candidate Starts for DelRivs_55:
(5, 48699), (13, 48540), (14, 48495), (17, 48465), (Start: 52 @48339 has 159 MA's), (Start: 53 @48336 has 121 MA's), (67, 48297), (84, 48216), (104, 48054), (105, 48051), (114, 48000),

Gene: Delilah_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Delilah_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Delton_57 Start: 43120, Stop: 43500, Start Num: 46
Candidate Starts for Delton_57:

(Start: 46 @43120 has 21 MA's), (63, 43153), (64, 43156), (65, 43159), (79, 43213), (80, 43216), (97, 43336), (114, 43447), (115, 43450),

Gene: Delylah_27 Start: 8482, Stop: 8838, Start Num: 55
Candidate Starts for Delylah_27:
(Start: 55 @8482 has 187 MA's), (98, 8689), (114, 8785),

Gene: Demodog_24 Start: 8646, Stop: 9002, Start Num: 55
Candidate Starts for Demodog_24:
(Start: 55 @8646 has 187 MA's), (85, 8760), (98, 8853), (114, 8949),

Gene: Derek_27 Start: 8111, Stop: 8467, Start Num: 55
Candidate Starts for Derek_27:
(Start: 55 @8111 has 187 MA's), (98, 8318), (114, 8414),

Gene: Derpp_55 Start: 48209, Stop: 47841, Start Num: 53
Candidate Starts for Derpp_55:
(5, 48572), (13, 48413), (14, 48368), (17, 48338), (Start: 52 @48212 has 159 MA's), (Start: 53 @48209 has 121 MA's), (67, 48170), (73, 48152), (82, 48098), (84, 48089), (104, 47927), (105, 47924), (114, 47873),

Gene: Dessert_24 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Dessert_24:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Dewey_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Dewey_41:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Dice_55 Start: 48300, Stop: 47932, Start Num: 53
Candidate Starts for Dice_55:
(13, 48504), (14, 48459), (17, 48429), (Start: 52 @48303 has 159 MA's), (Start: 53 @48300 has 121 MA's), (67, 48261), (84, 48180), (104, 48018), (105, 48015), (114, 47964),

Gene: Dietrick_21 Start: 7349, Stop: 7705, Start Num: 55
Candidate Starts for Dietrick_21:
(Start: 55 @7349 has 187 MA's), (98, 7556), (114, 7652),

Gene: DigitDog_54 Start: 48511, Stop: 48098, Start Num: 43
Candidate Starts for DigitDog_54:
(4, 48889), (6, 48844), (7, 48841), (Start: 43 @48511 has 34 MA's), (72, 48439), (107, 48193), (108, 48190), (113, 48163),

Gene: Dignity_37 Start: 27627, Stop: 28025, Start Num: 50
Candidate Starts for Dignity_37:
(Start: 50 @27627 has 49 MA's), (69, 27675), (104, 27918), (106, 27924), (113, 27954),

Gene: Dingo_54 Start: 47659, Stop: 47291, Start Num: 53
Candidate Starts for Dingo_54:
(13, 47863), (14, 47818), (17, 47788), (31, 47701), (Start: 52 @47662 has 159 MA's), (Start: 53 @47659 has 121 MA's), (67, 47620), (84, 47539), (104, 47377), (105, 47374), (114, 47323),

Gene: Dione_54 Start: 48034, Stop: 47663, Start Num: 52
Candidate Starts for Dione_54:
(13, 48235), (14, 48190), (17, 48160), (31, 48073), (Start: 52 @48034 has 159 MA's), (Start: 53 @48031 has 121 MA's), (84, 47911), (104, 47749), (105, 47746), (114, 47695),

Gene: DirtJuice_57 Start: 48622, Stop: 48254, Start Num: 53
Candidate Starts for DirtJuice_57:
(13, 48826), (14, 48781), (17, 48751), (31, 48664), (Start: 52 @48625 has 159 MA's), (Start: 53 @48622 has 121 MA's), (67, 48583), (73, 48565), (84, 48502), (104, 48340), (105, 48337), (114, 48286),

Gene: DirtMonster_25 Start: 9243, Stop: 9599, Start Num: 55
Candidate Starts for DirtMonster_25:
(Start: 55 @9243 has 187 MA's), (85, 9357), (98, 9450), (114, 9546),

Gene: DismalFunk_39 Start: 31497, Stop: 31114, Start Num: 37
Candidate Starts for DismalFunk_39:
(Start: 37 @31497 has 11 MA's), (68, 31437), (81, 31374), (90, 31323), (98, 31266), (106, 31194), (114, 31149), (115, 31146), (119, 31125),

Gene: DismalStressor_39 Start: 31497, Stop: 31114, Start Num: 37
Candidate Starts for DismalStressor_39:
(Start: 37 @31497 has 11 MA's), (68, 31437), (81, 31374), (90, 31323), (98, 31266), (106, 31194), (114, 31149), (115, 31146), (119, 31125),

Gene: Doddsville_56 Start: 48368, Stop: 47997, Start Num: 52
Candidate Starts for Doddsville_56:
(5, 48728), (13, 48569), (14, 48524), (17, 48494), (Start: 52 @48368 has 159 MA's), (Start: 53 @48365 has 121 MA's), (67, 48326), (73, 48308), (82, 48254), (104, 48083), (105, 48080), (114, 48029),

Gene: DoesntMatter_54 Start: 48324, Stop: 47956, Start Num: 53
Candidate Starts for DoesntMatter_54:
(13, 48528), (14, 48483), (17, 48453), (Start: 52 @48327 has 159 MA's), (Start: 53 @48324 has 121 MA's), (67, 48285), (84, 48204), (104, 48042), (105, 48039), (114, 47988),

Gene: DolOn_60 Start: 49582, Stop: 49211, Start Num: 52
Candidate Starts for DolOn_60:
(13, 49783), (14, 49738), (17, 49708), (Start: 52 @49582 has 159 MA's), (Start: 53 @49579 has 121 MA's), (67, 49540), (84, 49459), (104, 49297), (105, 49294), (114, 49243),

Gene: Domi_21 Start: 7974, Stop: 8330, Start Num: 55
Candidate Starts for Domi_21:
(Start: 55 @7974 has 187 MA's), (85, 8088), (98, 8181), (114, 8277),

Gene: DonSanchon_54 Start: 48059, Stop: 47688, Start Num: 52
Candidate Starts for DonSanchon_54:
(13, 48260), (14, 48215), (17, 48185), (Start: 52 @48059 has 159 MA's), (Start: 53 @48056 has 121 MA's), (67, 48017), (84, 47936), (104, 47774), (105, 47771), (114, 47720),

Gene: Donny_55 Start: 48805, Stop: 48392, Start Num: 43
Candidate Starts for Donny_55:

(4, 49183), (6, 49138), (7, 49135), (Start: 43 @48805 has 34 MA's), (Start: 53 @48787 has 121 MA's), (72, 48733), (116, 48436), (119, 48403),

Gene: Dori_57 Start: 47308, Stop: 47706, Start Num: 34
Candidate Starts for Dori_57:
(19, 47251), (Start: 34 @47308 has 8 MA's), (Start: 55 @47338 has 187 MA's), (67, 47374), (73, 47392), (98, 47557), (100, 47563), (103, 47602), (106, 47614), (112, 47635), (113, 47638), (114, 47653), (124, 47692), (126, 47695),

Gene: Doughnut_40 Start: 31391, Stop: 31008, Start Num: 37
Candidate Starts for Doughnut_40:
(35, 31394), (Start: 37 @31391 has 11 MA's), (68, 31331), (81, 31268), (90, 31217), (98, 31160), (106, 31088), (114, 31043),

Gene: DrPhinkDaddy_26 Start: 8696, Stop: 9052, Start Num: 55
Candidate Starts for DrPhinkDaddy_26:
(Start: 55 @8696 has 187 MA's), (85, 8810), (98, 8903), (114, 8999),

Gene: Drake55_38 Start: 27765, Stop: 28160, Start Num: 50
Candidate Starts for Drake55_38:
(Start: 50 @27765 has 49 MA's), (102, 28023), (104, 28053), (113, 28089),

Gene: Drazdys_26 Start: 8484, Stop: 8840, Start Num: 55
Candidate Starts for Drazdys_26:
(Start: 55 @8484 has 187 MA's), (98, 8691), (114, 8787),

Gene: DreamTeam1_35 Start: 26870, Stop: 27250, Start Num: 50
Candidate Starts for DreamTeam1_35:
(Start: 50 @26870 has 49 MA's), (Start: 62 @26900 has 4 MA's), (79, 26951), (94, 27053), (102, 27113), (104, 27143), (113, 27179),

Gene: DuchessDung_57 Start: 47883, Stop: 47515, Start Num: 53
Candidate Starts for DuchessDung_57:
(13, 48087), (14, 48042), (17, 48012), (31, 47925), (Start: 52 @47886 has 159 MA's), (Start: 53 @47883 has 121 MA's), (67, 47844), (82, 47772), (104, 47601), (105, 47598), (114, 47547),

Gene: Duckfeet_23 Start: 7893, Stop: 8249, Start Num: 55
Candidate Starts for Duckfeet_23:
(Start: 55 @7893 has 187 MA's), (98, 8100), (114, 8196),

Gene: DudeLittle_35 Start: 27298, Stop: 27681, Start Num: 50
Candidate Starts for DudeLittle_35:
(Start: 50 @27298 has 49 MA's), (80, 27382), (96, 27490), (102, 27541), (104, 27571), (113, 27607), (122, 27658),

Gene: Duggie_56 Start: 48362, Stop: 47994, Start Num: 53
Candidate Starts for Duggie_56:
(5, 48725), (13, 48566), (14, 48521), (17, 48491), (Start: 52 @48365 has 159 MA's), (Start: 53 @48362 has 121 MA's), (67, 48323), (73, 48305), (82, 48251), (104, 48080), (105, 48077), (114, 48026),

Gene: Duplicity_42 Start: 30659, Stop: 31057, Start Num: 36
Candidate Starts for Duplicity_42:

(Start: 36 @30659 has 27 MA's), (Start: 62 @30710 has 4 MA's), (67, 30725), (98, 30908), (100, 30914), (106, 30965), (112, 30986), (113, 30989), (114, 31004), (119, 31028), (124, 31043), (126, 31046),

Gene: Durga_58 Start: 48804, Stop: 48433, Start Num: 52
Candidate Starts for Durga_58:
(5, 49164), (13, 49005), (14, 48960), (17, 48930), (Start: 52 @48804 has 159 MA's), (Start: 53 @48801 has 121 MA's), (67, 48762), (73, 48744), (82, 48690), (84, 48681), (104, 48519), (105, 48516), (114, 48465),

Gene: Dylan_76 Start: 47811, Stop: 47386, Start Num: 26
Candidate Starts for Dylan_76:
(Start: 26 @47811 has 4 MA's), (Start: 43 @47763 has 34 MA's), (69, 47703), (73, 47691), (83, 47628), (98, 47535), (100, 47529), (106, 47484), (114, 47439), (124, 47400), (126, 47397),

Gene: ET08_21 Start: 8158, Stop: 8514, Start Num: 55
Candidate Starts for ET08_21:
(Start: 55 @8158 has 187 MA's), (98, 8365), (114, 8461),

Gene: EastView9101_53 Start: 48434, Stop: 48039, Start Num: 53
Candidate Starts for EastView9101_53:
(4, 48830), (6, 48785), (7, 48782), (Start: 43 @48452 has 34 MA's), (Start: 53 @48434 has 121 MA's), (72, 48380), (116, 48083), (119, 48050),

Gene: EasyJones_25 Start: 7323, Stop: 7679, Start Num: 55
Candidate Starts for EasyJones_25:
(Start: 55 @7323 has 187 MA's), (98, 7530), (114, 7626),

Gene: EggyFarm_30 Start: 9676, Stop: 10035, Start Num: 55
Candidate Starts for EggyFarm_30:
(Start: 55 @9676 has 187 MA's), (85, 9790), (98, 9883), (114, 9982),

Gene: Ein37_43 Start: 33292, Stop: 32891, Start Num: 38
Candidate Starts for Ein37_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Ekdilam_69 Start: 50223, Stop: 50606, Start Num: 42
Candidate Starts for Ekdilam_69:
(Start: 42 @50223 has 18 MA's), (Start: 45 @50229 has 1 MA's), (59, 50256), (73, 50298), (92, 50409), (102, 50481), (107, 50520), (111, 50538), (113, 50547),

Gene: Ellie_70 Start: 49459, Stop: 49842, Start Num: 42
Candidate Starts for Ellie_70:
(Start: 42 @49459 has 18 MA's), (Start: 45 @49465 has 1 MA's), (68, 49519), (87, 49606), (90, 49624), (92, 49645), (102, 49717), (111, 49774), (113, 49783),

Gene: ElvisPhasley_57 Start: 48902, Stop: 48534, Start Num: 53
Candidate Starts for ElvisPhasley_57:
(13, 49106), (14, 49061), (17, 49031), (31, 48944), (Start: 52 @48905 has 159 MA's), (Start: 53 @48902 has 121 MA's), (67, 48863), (82, 48791), (104, 48620), (105, 48617), (114, 48566),

Gene: EmToTheThree_29 Start: 10113, Stop: 10469, Start Num: 55
Candidate Starts for EmToTheThree_29:
(Start: 55 @10113 has 187 MA's), (98, 10320), (114, 10416),

Gene: Emiris_58 Start: 48772, Stop: 48401, Start Num: 52
Candidate Starts for Emiris_58:
(5, 49132), (13, 48973), (14, 48928), (17, 48898), (Start: 52 @48772 has 159 MA's), (Start: 53 @48769 has 121 MA's), (67, 48730), (73, 48712), (82, 48658), (84, 48649), (104, 48487), (105, 48484), (114, 48433),

Gene: EmmaElysia_24 Start: 7341, Stop: 7697, Start Num: 55
Candidate Starts for EmmaElysia_24:
(Start: 55 @7341 has 187 MA's), (98, 7548), (114, 7644),

Gene: EmpTee_55 Start: 48340, Stop: 47969, Start Num: 52
Candidate Starts for EmpTee_55:
(8, 48685), (13, 48541), (14, 48496), (17, 48466), (31, 48379), (Start: 52 @48340 has 159 MA's), (Start: 53 @48337 has 121 MA's), (84, 48217), (104, 48055), (105, 48052), (114, 48001),

Gene: Epah_48 Start: 47146, Stop: 46748, Start Num: 44
Candidate Starts for Epah_48:
(Start: 44 @47146 has 17 MA's), (66, 47098), (67, 47095), (76, 47074), (109, 46828), (116, 46792),

Gene: Equemioh13_37 Start: 27705, Stop: 28100, Start Num: 50
Candidate Starts for Equemioh13_37:
(Start: 50 @27705 has 49 MA's), (102, 27963), (104, 27993), (113, 28029),

Gene: Erdmann_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Erdmann_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Eremos_55 Start: 48330, Stop: 47962, Start Num: 53
Candidate Starts for Eremos_55:
(13, 48534), (14, 48489), (17, 48459), (31, 48372), (Start: 52 @48333 has 159 MA's), (Start: 53 @48330 has 121 MA's), (67, 48291), (82, 48219), (84, 48210), (104, 48048), (105, 48045), (114, 47994),

Gene: Erk16_55 Start: 42824, Stop: 43204, Start Num: 46
Candidate Starts for Erk16_55:
(Start: 46 @42824 has 21 MA's), (63, 42857), (64, 42860), (65, 42863), (79, 42917), (80, 42920), (97, 43040), (114, 43151), (115, 43154),

Gene: ErnieJ_27 Start: 8522, Stop: 8878, Start Num: 55
Candidate Starts for ErnieJ_27:
(Start: 55 @8522 has 187 MA's), (98, 8729), (114, 8825),

Gene: Essence_25 Start: 7876, Stop: 8232, Start Num: 55
Candidate Starts for Essence_25:
(Start: 55 @7876 has 187 MA's), (85, 7990), (98, 8083), (114, 8179),

Gene: Etaye_56 Start: 49163, Stop: 48792, Start Num: 52
Candidate Starts for Etaye_56:

(13, 49364), (14, 49319), (17, 49289), (Start: 52 @49163 has 159 MA's), (Start: 53 @49160 has 121 MA's), (67, 49121), (84, 49040), (104, 48878), (105, 48875), (114, 48824),

Gene: Eugenia_56 Start: 48725, Stop: 48357, Start Num: 53
Candidate Starts for Eugenia_56:
(13, 48929), (14, 48884), (17, 48854), (Start: 52 @48728 has 159 MA's), (Start: 53 @48725 has 121 MA's), (67, 48686), (84, 48605), (104, 48443), (105, 48440), (114, 48389),

Gene: Evanesce_42 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Evanesce_42:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: EvilGenius_38 Start: 29002, Stop: 29385, Start Num: 50
Candidate Starts for EvilGenius_38:
(Start: 50 @29002 has 49 MA's), (80, 29086), (96, 29194), (102, 29245), (104, 29275), (122, 29362),

Gene: Ewok_26 Start: 8702, Stop: 9058, Start Num: 55
Candidate Starts for Ewok_26:
(1, 8036), (2, 8114), (12, 8468), (Start: 55 @8702 has 187 MA's), (85, 8816), (98, 8909), (114, 9005),

Gene: Faiyaz_105 Start: 64943, Stop: 65281, Start Num: 54
Candidate Starts for Faiyaz_105:
(Start: 54 @64943 has 3 MA's), (59, 64955), (72, 64994), (73, 64997), (100, 65153),

Gene: Fameo_36 Start: 27420, Stop: 27818, Start Num: 50
Candidate Starts for Fameo_36:
(Start: 50 @27420 has 49 MA's), (96, 27627), (106, 27717), (113, 27747), (119, 27786),

Gene: Familton_76 Start: 47544, Stop: 47167, Start Num: 43
Candidate Starts for Familton_76:
(Start: 43 @47544 has 34 MA's), (69, 47484), (73, 47472), (83, 47409), (98, 47316), (100, 47310), (106, 47265), (114, 47220), (124, 47181), (126, 47178),

Gene: Fanaw_48 Start: 47836, Stop: 47438, Start Num: 44
Candidate Starts for Fanaw_48:
(Start: 44 @47836 has 17 MA's), (66, 47788), (67, 47785), (76, 47764), (105, 47539), (109, 47518), (116, 47482),

Gene: Fang_57 Start: 48315, Stop: 47947, Start Num: 53
Candidate Starts for Fang_57:
(13, 48519), (14, 48474), (17, 48444), (Start: 52 @48318 has 159 MA's), (Start: 53 @48315 has 121 MA's), (67, 48276), (84, 48195), (104, 48033), (105, 48030), (114, 47979),

Gene: Findley_39 Start: 31490, Stop: 31107, Start Num: 37
Candidate Starts for Findley_39:
(Start: 37 @31490 has 11 MA's), (81, 31367), (90, 31316), (98, 31259), (106, 31187), (114, 31142), (119, 31118),

Gene: Firecracker_77 Start: 47969, Stop: 47544, Start Num: 26
Candidate Starts for Firecracker_77:

(Start: 26 @47969 has 4 MA's), (Start: 43 @47921 has 34 MA's), (69, 47861), (73, 47849), (83, 47786), (98, 47693), (100, 47687), (106, 47642), (114, 47597), (124, 47558), (126, 47555),

Gene: FiringLine_36 Start: 27245, Stop: 27628, Start Num: 50
Candidate Starts for FiringLine_36:
(Start: 50 @27245 has 49 MA's), (80, 27329), (96, 27437), (102, 27488), (104, 27518), (122, 27605),

Gene: Fixie_23 Start: 7324, Stop: 7680, Start Num: 55
Candidate Starts for Fixie_23:
(Start: 55 @7324 has 187 MA's), (98, 7531), (114, 7627),

Gene: Flabslab_27 Start: 8632, Stop: 8988, Start Num: 55
Candidate Starts for Flabslab_27:
(Start: 55 @8632 has 187 MA's), (98, 8839), (114, 8935),

Gene: Flake_58 Start: 48372, Stop: 48004, Start Num: 53
Candidate Starts for Flake_58:
(13, 48576), (14, 48531), (17, 48501), (Start: 52 @48375 has 159 MA's), (Start: 53 @48372 has 121 MA's), (67, 48333), (73, 48315), (82, 48261), (84, 48252), (104, 48090), (105, 48087), (114, 48036),

Gene: Flare16_36 Start: 27377, Stop: 27772, Start Num: 50
Candidate Starts for Flare16_36:
(Start: 50 @27377 has 49 MA's), (102, 27635), (104, 27665), (113, 27701),

Gene: FleetyMac_57 Start: 48317, Stop: 47946, Start Num: 52
Candidate Starts for FleetyMac_57:
(13, 48518), (14, 48473), (17, 48443), (Start: 52 @48317 has 159 MA's), (Start: 53 @48314 has 121 MA's), (67, 48275), (84, 48194), (104, 48032), (105, 48029), (114, 47978),

Gene: Fludd_25 Start: 7577, Stop: 7933, Start Num: 55
Candidate Starts for Fludd_25:
(Start: 55 @7577 has 187 MA's), (98, 7784), (114, 7880),

Gene: FluffyNinja_57 Start: 48329, Stop: 47961, Start Num: 53
Candidate Starts for FluffyNinja_57:
(13, 48533), (14, 48488), (17, 48458), (Start: 52 @48332 has 159 MA's), (Start: 53 @48329 has 121 MA's), (67, 48290), (84, 48209), (104, 48047), (105, 48044), (114, 47993),

Gene: Fongie_26 Start: 9234, Stop: 9590, Start Num: 55
Candidate Starts for Fongie_26:
(Start: 55 @9234 has 187 MA's), (85, 9348), (98, 9441), (114, 9537),

Gene: Forge_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Forge_41:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: FoulBall_76 Start: 47587, Stop: 47210, Start Num: 43
Candidate Starts for FoulBall_76:
(Start: 43 @47587 has 34 MA's), (69, 47527), (73, 47515), (83, 47452), (98, 47359), (100, 47353), (106, 47308), (114, 47263), (124, 47224), (126, 47221),

Gene: FoxtrotP1_26 Start: 9027, Stop: 9383, Start Num: 55
Candidate Starts for FoxtrotP1_26:
(Start: 55 @9027 has 187 MA's), (85, 9141), (98, 9234), (114, 9330),

Gene: Fozzie_55 Start: 48666, Stop: 48295, Start Num: 52
Candidate Starts for Fozzie_55:
(13, 48867), (14, 48822), (17, 48792), (31, 48705), (Start: 52 @48666 has 159 MA's), (Start: 53 @48663 has 121 MA's), (67, 48624), (82, 48552), (104, 48381), (105, 48378), (114, 48327),

Gene: Frankicide_55 Start: 48361, Stop: 47993, Start Num: 53
Candidate Starts for Frankicide_55:
(13, 48565), (14, 48520), (17, 48490), (31, 48403), (Start: 52 @48364 has 159 MA's), (Start: 53 @48361 has 121 MA's), (67, 48322), (84, 48241), (104, 48079), (105, 48076), (114, 48025),

Gene: FrayBell_32 Start: 10270, Stop: 10626, Start Num: 55
Candidate Starts for FrayBell_32:
(Start: 55 @10270 has 187 MA's), (85, 10384), (98, 10477), (114, 10573),

Gene: FremontTroll_57 Start: 48931, Stop: 48560, Start Num: 52
Candidate Starts for FremontTroll_57:
(13, 49132), (14, 49087), (17, 49057), (Start: 52 @48931 has 159 MA's), (Start: 53 @48928 has 121 MA's), (67, 48889), (82, 48817), (104, 48646), (105, 48643), (114, 48592),

Gene: Freya_54 Start: 48022, Stop: 47654, Start Num: 53
Candidate Starts for Freya_54:
(13, 48226), (14, 48181), (17, 48151), (Start: 52 @48025 has 159 MA's), (Start: 53 @48022 has 121 MA's), (67, 47983), (84, 47902), (104, 47740), (105, 47737), (114, 47686),

Gene: FriarPreacher_55 Start: 48209, Stop: 47838, Start Num: 52
Candidate Starts for FriarPreacher_55:
(8, 48554), (13, 48410), (14, 48365), (17, 48335), (Start: 52 @48209 has 159 MA's), (Start: 53 @48206 has 121 MA's), (67, 48167), (84, 48086), (104, 47924), (105, 47921), (114, 47870),

Gene: Fringe_60 Start: 49243, Stop: 48872, Start Num: 52
Candidate Starts for Fringe_60:
(13, 49444), (14, 49399), (17, 49369), (Start: 52 @49243 has 159 MA's), (Start: 53 @49240 has 121 MA's), (67, 49201), (84, 49120), (104, 48958), (105, 48955), (114, 48904),

Gene: FudgeTart_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for FudgeTart_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: FugateOSU_56 Start: 48867, Stop: 48499, Start Num: 53
Candidate Starts for FugateOSU_56:
(13, 49071), (14, 49026), (17, 48996), (Start: 52 @48870 has 159 MA's), (Start: 53 @48867 has 121 MA's), (67, 48828), (84, 48747), (104, 48585), (105, 48582), (114, 48531),

Gene: Fulbright_41 Start: 29739, Stop: 30137, Start Num: 36
Candidate Starts for Fulbright_41:
(Start: 36 @29739 has 27 MA's), (Start: 62 @29790 has 4 MA's), (67, 29805), (98, 29988), (100, 29994), (106, 30045), (112, 30066), (113, 30069), (114, 30084), (119, 30108), (124, 30123), (126, 30126),

Gene: Gabriel_26 Start: 7573, Stop: 7929, Start Num: 55
Candidate Starts for Gabriel_26:
(Start: 55 @7573 has 187 MA's), (85, 7687), (98, 7780), (114, 7876),

Gene: Gamgam_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Gamgam_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Gareth_56 Start: 48864, Stop: 48493, Start Num: 52
Candidate Starts for Gareth_56:
(13, 49065), (14, 49020), (17, 48990), (Start: 52 @48864 has 159 MA's), (Start: 53 @48861 has 121 MA's), (67, 48822), (84, 48741), (104, 48579), (105, 48576), (114, 48525),

Gene: GaugeLDP_37 Start: 27993, Stop: 28460, Start Num: 25
Candidate Starts for GaugeLDP_37:
(Start: 25 @27993 has 1 MA's), (63, 28089), (69, 28107), (87, 28209), (96, 28269), (102, 28320), (104, 28350), (110, 28374), (122, 28437), (124, 28440), (126, 28443),

Gene: GeneCoco_56 Start: 48660, Stop: 48289, Start Num: 52
Candidate Starts for GeneCoco_56:
(5, 49020), (13, 48861), (14, 48816), (17, 48786), (Start: 52 @48660 has 159 MA's), (Start: 53 @48657 has 121 MA's), (67, 48618), (73, 48600), (82, 48546), (84, 48537), (104, 48375), (105, 48372), (114, 48321),

Gene: Georgie2_37 Start: 27290, Stop: 27673, Start Num: 50
Candidate Starts for Georgie2_37:
(Start: 50 @27290 has 49 MA's), (80, 27374), (96, 27482), (102, 27533), (104, 27563), (122, 27650),

Gene: Gex_42 Start: 30666, Stop: 31064, Start Num: 36
Candidate Starts for Gex_42:
(Start: 36 @30666 has 27 MA's), (Start: 62 @30717 has 4 MA's), (67, 30732), (98, 30915), (100, 30921), (106, 30972), (112, 30993), (113, 30996), (114, 31011), (119, 31035), (124, 31050), (126, 31053),

Gene: Ghost_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Ghost_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Giles_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Giles_41:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: GinPorsche_49 Start: 47146, Stop: 46748, Start Num: 44
Candidate Starts for GinPorsche_49:
(Start: 44 @47146 has 17 MA's), (66, 47098), (67, 47095), (76, 47074), (109, 46828), (116, 46792),

Gene: Giraffe_57 Start: 48860, Stop: 48489, Start Num: 52
Candidate Starts for Giraffe_57:
(13, 49061), (14, 49016), (17, 48986), (Start: 52 @48860 has 159 MA's), (Start: 53 @48857 has 121 MA's), (67, 48818), (82, 48746), (104, 48575), (105, 48572), (114, 48521),

Gene: Giuseppe_57 Start: 42690, Stop: 43070, Start Num: 46
Candidate Starts for Giuseppe_57:
(Start: 46 @42690 has 21 MA's), (63, 42723), (64, 42726), (65, 42729), (79, 42783), (80, 42786), (97, 42906), (114, 43017), (115, 43020),

Gene: Gizmo_28 Start: 8701, Stop: 9057, Start Num: 55
Candidate Starts for Gizmo_28:
(Start: 55 @8701 has 187 MA's), (98, 8908), (114, 9004),

Gene: GlutenPhree_27 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for GlutenPhree_27:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Gophee_57 Start: 48604, Stop: 48233, Start Num: 52
Candidate Starts for Gophee_57:
(13, 48805), (14, 48760), (17, 48730), (Start: 52 @48604 has 159 MA's), (Start: 53 @48601 has 121 MA's), (67, 48562), (84, 48481), (104, 48319), (105, 48316), (114, 48265),

Gene: Grand2040_56 Start: 48851, Stop: 48483, Start Num: 53
Candidate Starts for Grand2040_56:
(13, 49055), (14, 49010), (17, 48980), (Start: 52 @48854 has 159 MA's), (Start: 53 @48851 has 121 MA's), (67, 48812), (82, 48740), (104, 48569), (105, 48566), (114, 48515),

Gene: Grasshills_30 Start: 9676, Stop: 10035, Start Num: 55
Candidate Starts for Grasshills_30:
(Start: 55 @9676 has 187 MA's), (85, 9790), (98, 9883), (114, 9982),

Gene: Gratitude_36 Start: 27705, Stop: 28100, Start Num: 50
Candidate Starts for Gratitude_36:
(Start: 50 @27705 has 49 MA's), (102, 27963), (104, 27993), (113, 28029),

Gene: GreenChile_57 Start: 48346, Stop: 47975, Start Num: 52
Candidate Starts for GreenChile_57:
(13, 48547), (14, 48502), (17, 48472), (31, 48385), (Start: 52 @48346 has 159 MA's), (Start: 53 @48343 has 121 MA's), (67, 48304), (84, 48223), (104, 48061), (105, 48058), (114, 48007),

Gene: Grungle_19 Start: 6273, Stop: 6629, Start Num: 55
Candidate Starts for Grungle_19:
(Start: 55 @6273 has 187 MA's), (98, 6480), (114, 6576),

Gene: Gumball_55 Start: 42916, Stop: 43296, Start Num: 46
Candidate Starts for Gumball_55:
(Start: 46 @42916 has 21 MA's), (63, 42949), (64, 42952), (65, 42955), (79, 43009), (80, 43012), (97, 43132), (114, 43243), (115, 43246),

Gene: Guwapp_26 Start: 8111, Stop: 8467, Start Num: 55
Candidate Starts for Guwapp_26:
(Start: 55 @8111 has 187 MA's), (85, 8225), (98, 8318), (114, 8414),

Gene: Gwennie1_56 Start: 48707, Stop: 48339, Start Num: 53
Candidate Starts for Gwennie1_56:
(13, 48911), (14, 48866), (17, 48836), (Start: 52 @48710 has 159 MA's), (Start: 53 @48707 has 121 MA's), (67, 48668), (82, 48596), (84, 48587), (104, 48425), (105, 48422), (114, 48371),

Gene: Gwilliam_57 Start: 49214, Stop: 48846, Start Num: 53
Candidate Starts for Gwilliam_57:
(13, 49418), (14, 49373), (17, 49343), (Start: 52 @49217 has 159 MA's), (Start: 53 @49214 has 121 MA's), (67, 49175), (84, 49094), (104, 48932), (105, 48929), (114, 48878),

Gene: Gyarad_0054 Start: 47699, Stop: 47328, Start Num: 52
Candidate Starts for Gyarad_0054:
(13, 47900), (14, 47855), (17, 47825), (31, 47738), (Start: 52 @47699 has 159 MA's), (Start: 53 @47696 has 121 MA's), (67, 47657), (84, 47576), (104, 47414), (105, 47411), (114, 47360),

Gene: HH92_42 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for HH92_42:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: HSavage_55 Start: 48340, Stop: 47972, Start Num: 53
Candidate Starts for HSavage_55:
(13, 48544), (14, 48499), (17, 48469), (31, 48382), (Start: 52 @48343 has 159 MA's), (Start: 53 @48340 has 121 MA's), (67, 48301), (84, 48220), (104, 48058), (105, 48055), (114, 48004),

Gene: Hadrien_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Hadrien_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Hail_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Hail_41:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Haimas_55 Start: 48359, Stop: 47988, Start Num: 52
Candidate Starts for Haimas_55:
(13, 48560), (14, 48515), (17, 48485), (Start: 52 @48359 has 159 MA's), (Start: 53 @48356 has 121 MA's), (67, 48317), (84, 48236), (104, 48074), (105, 48071), (114, 48020),

Gene: Haleema_55 Start: 48358, Stop: 47987, Start Num: 52
Candidate Starts for Haleema_55:
(13, 48559), (14, 48514), (17, 48484), (Start: 52 @48358 has 159 MA's), (Start: 53 @48355 has 121 MA's), (67, 48316), (82, 48244), (104, 48073), (105, 48070), (114, 48019),

Gene: Halldule_22 Start: 6943, Stop: 7299, Start Num: 55
Candidate Starts for Halldule_22:
(Start: 55 @6943 has 187 MA's), (98, 7150), (114, 7246),

Gene: Hally898_48 Start: 47161, Stop: 46760, Start Num: 44
Candidate Starts for Hally898_48:
(Start: 44 @47161 has 17 MA's), (66, 47113), (67, 47110), (68, 47107), (76, 47086), (109, 46840), (116, 46804),

Gene: Hamish_55 Start: 48352, Stop: 47981, Start Num: 52
Candidate Starts for Hamish_55:
(5, 48712), (13, 48553), (14, 48508), (17, 48478), (31, 48391), (Start: 52 @48352 has 159 MA's),
(Start: 53 @48349 has 121 MA's), (84, 48229), (104, 48067), (105, 48064), (114, 48013),

Gene: Hammy_72 Start: 50000, Stop: 50383, Start Num: 42
Candidate Starts for Hammy_72:
(Start: 42 @50000 has 18 MA's), (Start: 45 @50006 has 1 MA's), (68, 50060), (87, 50147), (92, 50186),
(98, 50222), (111, 50315), (113, 50324),

Gene: Happabalu_56 Start: 48894, Stop: 48523, Start Num: 52
Candidate Starts for Happabalu_56:
(13, 49095), (14, 49050), (17, 49020), (Start: 52 @48894 has 159 MA's), (Start: 53 @48891 has 121
MA's), (67, 48852), (84, 48771), (104, 48609), (105, 48606), (114, 48555),

Gene: HarryHoudini_38 Start: 27804, Stop: 28184, Start Num: 50
Candidate Starts for HarryHoudini_38:
(Start: 50 @27804 has 49 MA's), (104, 28077), (106, 28083), (113, 28113),

Gene: Hartsy_57 Start: 48692, Stop: 48321, Start Num: 52
Candidate Starts for Hartsy_57:
(13, 48893), (14, 48848), (17, 48818), (Start: 52 @48692 has 159 MA's), (Start: 53 @48689 has 121
MA's), (67, 48650), (84, 48569), (104, 48407), (105, 48404), (114, 48353),

Gene: Harvey_55 Start: 48389, Stop: 48018, Start Num: 52
Candidate Starts for Harvey_55:
(13, 48590), (14, 48545), (17, 48515), (Start: 52 @48389 has 159 MA's), (Start: 53 @48386 has 121
MA's), (67, 48347), (84, 48266), (104, 48104), (105, 48101), (114, 48050),

Gene: Heath_48 Start: 47727, Stop: 47389, Start Num: 71
Candidate Starts for Heath_48:
(Start: 71 @47727 has 1 MA's), (109, 47469), (116, 47433),

Gene: Hekos_53 Start: 47731, Stop: 47360, Start Num: 52
Candidate Starts for Hekos_53:
(13, 47932), (14, 47887), (17, 47857), (31, 47770), (Start: 52 @47731 has 159 MA's), (Start: 53
@47728 has 121 MA's), (67, 47689), (84, 47608), (104, 47446), (105, 47443), (114, 47392),

Gene: Held_56 Start: 48360, Stop: 47992, Start Num: 53
Candidate Starts for Held_56:
(13, 48564), (14, 48519), (17, 48489), (Start: 52 @48363 has 159 MA's), (Start: 53 @48360 has 121
MA's), (67, 48321), (82, 48249), (104, 48078), (105, 48075), (114, 48024),

Gene: Helpful_59 Start: 43051, Stop: 43431, Start Num: 46
Candidate Starts for Helpful_59:
(Start: 46 @43051 has 21 MA's), (63, 43084), (64, 43087), (65, 43090), (79, 43144), (80, 43147), (97,
43267), (114, 43378), (115, 43381),

Gene: HenryJackson_56 Start: 48885, Stop: 48517, Start Num: 53
Candidate Starts for HenryJackson_56:
(13, 49089), (14, 49044), (17, 49014), (Start: 52 @48888 has 159 MA's), (Start: 53 @48885 has 121
MA's), (67, 48846), (84, 48765), (104, 48603), (105, 48600), (114, 48549),

Gene: Hertubise_56 Start: 48655, Stop: 48284, Start Num: 52
Candidate Starts for Hertubise_56:
(13, 48856), (14, 48811), (17, 48781), (Start: 52 @48655 has 159 MA's), (Start: 53 @48652 has 121 MA's), (67, 48613), (84, 48532), (104, 48370), (105, 48367), (114, 48316),

Gene: Hetaeria_55 Start: 48387, Stop: 48019, Start Num: 53
Candidate Starts for Hetaeria_55:
(13, 48591), (14, 48546), (17, 48516), (31, 48429), (Start: 52 @48390 has 159 MA's), (Start: 53 @48387 has 121 MA's), (67, 48348), (82, 48276), (104, 48105), (105, 48102), (114, 48051),

Gene: HighStump_58 Start: 48866, Stop: 48495, Start Num: 52
Candidate Starts for HighStump_58:
(13, 49067), (14, 49022), (17, 48992), (Start: 52 @48866 has 159 MA's), (Start: 53 @48863 has 121 MA's), (67, 48824), (84, 48743), (104, 48581), (105, 48578), (114, 48527),

Gene: Hilltopfarm_107 Start: 65766, Stop: 66104, Start Num: 54
Candidate Starts for Hilltopfarm_107:
(Start: 54 @65766 has 3 MA's), (59, 65778), (72, 65817), (73, 65820), (100, 65976),

Gene: HippoHollow_35 Start: 28591, Stop: 28971, Start Num: 50
Candidate Starts for HippoHollow_35:
(Start: 50 @28591 has 49 MA's), (80, 28672), (86, 28714), (104, 28864), (110, 28888),

Gene: Hocus_56 Start: 48346, Stop: 47978, Start Num: 53
Candidate Starts for Hocus_56:
(5, 48709), (13, 48550), (14, 48505), (17, 48475), (Start: 52 @48349 has 159 MA's), (Start: 53 @48346 has 121 MA's), (67, 48307), (73, 48289), (82, 48235), (84, 48226), (104, 48064), (105, 48061), (114, 48010),

Gene: HogWash_56 Start: 49185, Stop: 48814, Start Num: 52
Candidate Starts for HogWash_56:
(13, 49386), (14, 49341), (17, 49311), (Start: 52 @49185 has 159 MA's), (Start: 53 @49182 has 121 MA's), (67, 49143), (84, 49062), (104, 48900), (105, 48897), (114, 48846),

Gene: Horchata_55 Start: 48343, Stop: 47972, Start Num: 52
Candidate Starts for Horchata_55:
(13, 48544), (14, 48499), (17, 48469), (31, 48382), (Start: 52 @48343 has 159 MA's), (Start: 53 @48340 has 121 MA's), (67, 48301), (84, 48220), (104, 48058), (105, 48055), (114, 48004),

Gene: Hurricane_75 Start: 49943, Stop: 50338, Start Num: 34
Candidate Starts for Hurricane_75:
(Start: 34 @49943 has 8 MA's), (Start: 55 @49979 has 187 MA's), (68, 50015), (82, 50072), (98, 50177), (102, 50213), (113, 50279), (123, 50330),

Gene: HyRo_25 Start: 8889, Stop: 9245, Start Num: 55
Candidate Starts for HyRo_25:
(Start: 55 @8889 has 187 MA's), (98, 9096), (114, 9192),

Gene: Hydro_49 Start: 48214, Stop: 47816, Start Num: 44
Candidate Starts for Hydro_49:
(Start: 44 @48214 has 17 MA's), (66, 48166), (67, 48163), (76, 48142), (105, 47917), (109, 47896), (116, 47860),

Gene: I3_28 Start: 9266, Stop: 9622, Start Num: 55
Candidate Starts for I3_28:
(Start: 55 @9266 has 187 MA's), (85, 9380), (98, 9473), (114, 9569),

Gene: Ibrahim_40 Start: 31491, Stop: 31892, Start Num: 39
Candidate Starts for Ibrahim_40:
(11, 31248), (Start: 39 @31491 has 5 MA's), (Start: 47 @31509 has 1 MA's), (87, 31665), (94, 31716), (98, 31740), (114, 31860), (115, 31863),

Gene: IdentityCrisis_40 Start: 28510, Stop: 28902, Start Num: 36
Candidate Starts for IdentityCrisis_40:
(Start: 36 @28510 has 27 MA's), (Start: 44 @28519 has 17 MA's), (Start: 62 @28555 has 4 MA's), (100, 28759), (106, 28810), (113, 28834), (115, 28852), (124, 28888),

Gene: Idergollasper_75 Start: 47538, Stop: 47161, Start Num: 43
Candidate Starts for Idergollasper_75:
(Start: 43 @47538 has 34 MA's), (69, 47478), (73, 47466), (83, 47403), (98, 47310), (100, 47304), (106, 47259), (114, 47214), (124, 47175), (126, 47172),

Gene: IkeLoa_22 Start: 8000, Stop: 8356, Start Num: 55
Candidate Starts for IkeLoa_22:
(Start: 55 @8000 has 187 MA's), (85, 8114), (98, 8207), (114, 8303),

Gene: Imara_74 Start: 47387, Stop: 47010, Start Num: 43
Candidate Starts for Imara_74:
(Start: 43 @47387 has 34 MA's), (69, 47327), (73, 47315), (83, 47252), (98, 47159), (100, 47153), (106, 47108), (114, 47063), (124, 47024), (126, 47021),

Gene: ImtiyazSitla_57 Start: 48338, Stop: 47967, Start Num: 52
Candidate Starts for ImtiyazSitla_57:
(5, 48698), (13, 48539), (14, 48494), (17, 48464), (Start: 52 @48338 has 159 MA's), (Start: 53 @48335 has 121 MA's), (67, 48296), (73, 48278), (82, 48224), (84, 48215), (104, 48053), (105, 48050), (114, 47999),

Gene: Inchworm_58 Start: 48737, Stop: 48366, Start Num: 52
Candidate Starts for Inchworm_58:
(13, 48938), (14, 48893), (17, 48863), (Start: 52 @48737 has 159 MA's), (Start: 53 @48734 has 121 MA's), (67, 48695), (84, 48614), (104, 48452), (105, 48449), (114, 48398),

Gene: InigoMontoya_27 Start: 8115, Stop: 8471, Start Num: 55
Candidate Starts for InigoMontoya_27:
(Start: 55 @8115 has 187 MA's), (85, 8229), (98, 8322), (114, 8418),

Gene: InterFolia_33 Start: 10805, Stop: 11161, Start Num: 55
Candidate Starts for InterFolia_33:
(Start: 55 @10805 has 187 MA's), (85, 10919), (98, 11012), (114, 11108),

Gene: Inverness_55 Start: 48352, Stop: 47981, Start Num: 52
Candidate Starts for Inverness_55:
(13, 48553), (14, 48508), (17, 48478), (31, 48391), (Start: 52 @48352 has 159 MA's), (Start: 53 @48349 has 121 MA's), (67, 48310), (82, 48238), (104, 48067), (105, 48064), (114, 48013),

Gene: Iota_23 Start: 8234, Stop: 8590, Start Num: 55

Candidate Starts for Iota_23:
(Start: 55 @8234 has 187 MA's), (98, 8441), (114, 8537),

Gene: Iridessa_57 Start: 48307, Stop: 47939, Start Num: 53
Candidate Starts for Iridessa_57:
(13, 48511), (14, 48466), (17, 48436), (Start: 52 @48310 has 159 MA's), (Start: 53 @48307 has 121 MA's), (67, 48268), (84, 48187), (104, 48025), (105, 48022), (114, 47971),

Gene: Iridoclysis_57 Start: 48632, Stop: 48264, Start Num: 53
Candidate Starts for Iridoclysis_57:
(13, 48836), (14, 48791), (17, 48761), (Start: 52 @48635 has 159 MA's), (Start: 53 @48632 has 121 MA's), (67, 48593), (82, 48521), (104, 48350), (105, 48347), (114, 48296),

Gene: IsaacEli_57 Start: 48873, Stop: 48505, Start Num: 53
Candidate Starts for IsaacEli_57:
(13, 49077), (14, 49032), (17, 49002), (Start: 52 @48876 has 159 MA's), (Start: 53 @48873 has 121 MA's), (67, 48834), (84, 48753), (104, 48591), (105, 48588), (114, 48537),

Gene: Issimir_26 Start: 8694, Stop: 9050, Start Num: 55
Candidate Starts for Issimir_26:
(12, 8460), (Start: 55 @8694 has 187 MA's), (85, 8808), (98, 8901), (114, 8997),

Gene: Izajani_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Izajani_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: JAMaL_49 Start: 48340, Stop: 47954, Start Num: 44
Candidate Starts for JAMaL_49:
(5, 48673), (Start: 44 @48340 has 17 MA's), (Start: 45 @48337 has 1 MA's), (66, 48301), (67, 48298), (105, 48055), (109, 48034), (116, 47998),

Gene: JDog_55 Start: 48889, Stop: 48521, Start Num: 53
Candidate Starts for JDog_55:
(13, 49093), (14, 49048), (17, 49018), (Start: 52 @48892 has 159 MA's), (Start: 53 @48889 has 121 MA's), (67, 48850), (84, 48769), (104, 48607), (105, 48604), (114, 48553),

Gene: JPickles_24 Start: 7351, Stop: 7707, Start Num: 55
Candidate Starts for JPickles_24:
(Start: 55 @7351 has 187 MA's), (98, 7558), (114, 7654),

Gene: JacAttac_57 Start: 48297, Stop: 47926, Start Num: 52
Candidate Starts for JacAttac_57:
(13, 48498), (14, 48453), (17, 48423), (Start: 52 @48297 has 159 MA's), (Start: 53 @48294 has 121 MA's), (67, 48255), (84, 48174), (104, 48012), (105, 48009), (114, 47958),

Gene: JacoRen57_55 Start: 43848, Stop: 44240, Start Num: 45
Candidate Starts for JacoRen57_55:
(Start: 45 @43848 has 1 MA's), (60, 43881), (72, 43917), (89, 44025), (92, 44049), (98, 44085), (109, 44175), (118, 44229),

Gene: JaguarMi_51 Start: 49281, Stop: 48883, Start Num: 44
Candidate Starts for JaguarMi_51:

(Start: 44 @49281 has 17 MA's), (64, 49239), (66, 49233), (67, 49230), (105, 48984), (109, 48963), (116, 48927),

Gene: JakeO_56 Start: 48368, Stop: 47997, Start Num: 52
Candidate Starts for JakeO_56:
(13, 48569), (14, 48524), (17, 48494), (31, 48407), (Start: 52 @48368 has 159 MA's), (Start: 53 @48365 has 121 MA's), (67, 48326), (82, 48254), (104, 48083), (105, 48080), (114, 48029),

Gene: Jamie19_40 Start: 29847, Stop: 30245, Start Num: 36
Candidate Starts for Jamie19_40:
(Start: 36 @29847 has 27 MA's), (Start: 62 @29898 has 4 MA's), (67, 29913), (98, 30096), (100, 30102), (106, 30153), (112, 30174), (113, 30177), (114, 30192), (119, 30216), (124, 30231), (126, 30234),

Gene: JangDynasty_75 Start: 47605, Stop: 47228, Start Num: 43
Candidate Starts for JangDynasty_75:
(Start: 43 @47605 has 34 MA's), (69, 47545), (73, 47533), (83, 47470), (98, 47377), (100, 47371), (106, 47326), (114, 47281), (124, 47242), (126, 47239),

Gene: JangoPhett_56 Start: 48637, Stop: 48275, Start Num: 52
Candidate Starts for JangoPhett_56:
(5, 48997), (13, 48838), (14, 48793), (17, 48763), (Start: 52 @48637 has 159 MA's), (Start: 53 @48634 has 121 MA's), (67, 48595), (73, 48577), (82, 48532), (84, 48523), (104, 48361), (105, 48358), (114, 48307),

Gene: Janiyra_26 Start: 8133, Stop: 8489, Start Num: 55
Candidate Starts for Janiyra_26:
(Start: 55 @8133 has 187 MA's), (85, 8247), (98, 8340), (114, 8436),

Gene: JayJay_29 Start: 8667, Stop: 9023, Start Num: 55
Candidate Starts for JayJay_29:
(Start: 55 @8667 has 187 MA's), (85, 8781), (98, 8874), (114, 8970),

Gene: Jaygup_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Jaygup_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Jedediah_26 Start: 7619, Stop: 7975, Start Num: 55
Candidate Starts for Jedediah_26:
(Start: 55 @7619 has 187 MA's), (85, 7733), (98, 7826), (114, 7922),

Gene: Jemmno_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Jemmno_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Jerm_37 Start: 27620, Stop: 28018, Start Num: 50
Candidate Starts for Jerm_37:
(Start: 50 @27620 has 49 MA's), (69, 27668), (104, 27911), (106, 27917), (113, 27947),

Gene: Jesabah_57 Start: 48890, Stop: 48522, Start Num: 53
Candidate Starts for Jesabah_57:
(13, 49094), (14, 49049), (17, 49019), (Start: 52 @48893 has 159 MA's), (Start: 53 @48890 has 121 MA's), (67, 48851), (84, 48770), (104, 48608), (105, 48605), (114, 48554),

Gene: Jessibeth14_25 Start: 8422, Stop: 8778, Start Num: 55
Candidate Starts for Jessibeth14_25:
(Start: 55 @8422 has 187 MA's), (98, 8629), (114, 8725),

Gene: Jezreel_25 Start: 8171, Stop: 8527, Start Num: 55
Candidate Starts for Jezreel_25:
(Start: 55 @8171 has 187 MA's), (85, 8285), (98, 8378), (114, 8474),

Gene: JigglyPuff_26 Start: 8695, Stop: 9051, Start Num: 55
Candidate Starts for JigglyPuff_26:
(Start: 55 @8695 has 187 MA's), (85, 8809), (98, 8902), (114, 8998),

Gene: Jillium_56 Start: 48884, Stop: 48513, Start Num: 52
Candidate Starts for Jillium_56:
(13, 49085), (14, 49040), (17, 49010), (Start: 52 @48884 has 159 MA's), (Start: 53 @48881 has 121
MA's), (67, 48842), (84, 48761), (104, 48599), (105, 48596), (114, 48545),

Gene: Jiminy_56 Start: 48200, Stop: 47832, Start Num: 53
Candidate Starts for Jiminy_56:
(5, 48563), (13, 48404), (14, 48359), (17, 48329), (Start: 52 @48203 has 159 MA's), (Start: 53 @48200
has 121 MA's), (67, 48161), (73, 48143), (82, 48089), (104, 47918), (105, 47915), (114, 47864),

Gene: Jiraiya_56 Start: 48353, Stop: 47985, Start Num: 53
Candidate Starts for Jiraiya_56:
(5, 48716), (13, 48557), (14, 48512), (17, 48482), (Start: 52 @48356 has 159 MA's), (Start: 53 @48353
has 121 MA's), (67, 48314), (73, 48296), (82, 48242), (104, 48071), (105, 48068), (114, 48017),

Gene: JoshKayV_37 Start: 27589, Stop: 27972, Start Num: 50
Candidate Starts for JoshKayV_37:
(Start: 50 @27589 has 49 MA's), (80, 27673), (96, 27781), (102, 27832), (104, 27862), (113, 27898),
(119, 27937), (122, 27949),

Gene: JulietS_21 Start: 6576, Stop: 6932, Start Num: 55
Candidate Starts for JulietS_21:
(Start: 55 @6576 has 187 MA's), (98, 6783), (114, 6879),

Gene: JustASigh_40 Start: 31548, Stop: 31102, Start Num: 24
Candidate Starts for JustASigh_40:
(Start: 24 @31548 has 1 MA's), (Start: 26 @31539 has 4 MA's), (29, 31521), (51, 31479), (60, 31458),
(65, 31443), (98, 31263), (106, 31194), (112, 31173), (113, 31170), (124, 31116),

Gene: JustHall_25 Start: 8599, Stop: 8955, Start Num: 55
Candidate Starts for JustHall_25:
(Start: 55 @8599 has 187 MA's), (85, 8713), (98, 8806), (114, 8902),

Gene: KLucky39_54 Start: 47698, Stop: 47327, Start Num: 52
Candidate Starts for KLucky39_54:
(13, 47899), (14, 47854), (17, 47824), (31, 47737), (Start: 52 @47698 has 159 MA's), (Start: 53
@47695 has 121 MA's), (67, 47656), (84, 47575), (104, 47413), (105, 47410), (114, 47359),

Gene: Kahve_56 Start: 48885, Stop: 48514, Start Num: 52
Candidate Starts for Kahve_56:

(13, 49086), (14, 49041), (17, 49011), (Start: 52 @48885 has 159 MA's), (Start: 53 @48882 has 121 MA's), (67, 48843), (84, 48762), (104, 48600), (105, 48597), (114, 48546),

Gene: Kailash_56 Start: 48722, Stop: 48351, Start Num: 52
Candidate Starts for Kailash_56:
(5, 49082), (13, 48923), (14, 48878), (17, 48848), (Start: 52 @48722 has 159 MA's), (Start: 53 @48719 has 121 MA's), (67, 48680), (73, 48662), (82, 48608), (84, 48599), (104, 48437), (105, 48434), (114, 48383),

Gene: Kamryn_26 Start: 8478, Stop: 8834, Start Num: 55
Candidate Starts for Kamryn_26:
(Start: 55 @8478 has 187 MA's), (85, 8592), (98, 8685), (114, 8781),

Gene: KandZ_55 Start: 42849, Stop: 43229, Start Num: 46
Candidate Starts for KandZ_55:
(Start: 46 @42849 has 21 MA's), (63, 42882), (64, 42885), (65, 42888), (79, 42942), (80, 42945), (97, 43065), (114, 43176), (115, 43179),

Gene: KarasumaRum_54 Start: 48662, Stop: 48249, Start Num: 43
Candidate Starts for KarasumaRum_54:
(Start: 43 @48662 has 34 MA's), (101, 48389), (107, 48344), (108, 48341), (113, 48314),

Gene: Karn_56 Start: 48363, Stop: 47992, Start Num: 52
Candidate Starts for Karn_56:
(5, 48723), (13, 48564), (14, 48519), (17, 48489), (Start: 52 @48363 has 159 MA's), (Start: 53 @48360 has 121 MA's), (67, 48321), (73, 48303), (82, 48249), (104, 48078), (105, 48075), (114, 48024),

Gene: Katniss_57 Start: 48324, Stop: 47953, Start Num: 52
Candidate Starts for Katniss_57:
(13, 48525), (14, 48480), (17, 48450), (Start: 52 @48324 has 159 MA's), (Start: 53 @48321 has 121 MA's), (67, 48282), (84, 48201), (104, 48039), (105, 48036), (114, 47985),

Gene: Kboogie_26 Start: 7632, Stop: 7988, Start Num: 55
Candidate Starts for Kboogie_26:
(Start: 55 @7632 has 187 MA's), (98, 7839), (114, 7935),

Gene: Keitherie_57 Start: 48703, Stop: 48332, Start Num: 52
Candidate Starts for Keitherie_57:
(5, 49063), (13, 48904), (14, 48859), (17, 48829), (31, 48742), (Start: 52 @48703 has 159 MA's), (Start: 53 @48700 has 121 MA's), (84, 48580), (104, 48418), (105, 48415), (114, 48364),

Gene: Keshu_77 Start: 50098, Stop: 50493, Start Num: 34
Candidate Starts for Keshu_77:
(Start: 34 @50098 has 8 MA's), (Start: 55 @50134 has 187 MA's), (68, 50170), (96, 50317), (98, 50332), (102, 50368), (113, 50434), (123, 50485),

Gene: Khaleesi_25 Start: 8449, Stop: 8805, Start Num: 55
Candidate Starts for Khaleesi_25:
(Start: 55 @8449 has 187 MA's), (98, 8656), (114, 8752),

Gene: Khan1_57 Start: 48841, Stop: 48470, Start Num: 52
Candidate Starts for Khan1_57:

(5, 49201), (13, 49042), (14, 48997), (17, 48967), (Start: 52 @48841 has 159 MA's), (Start: 53 @48838 has 121 MA's), (67, 48799), (82, 48727), (104, 48556), (105, 48553), (114, 48502),

Gene: Kikipoo_57 Start: 48876, Stop: 48505, Start Num: 52
Candidate Starts for Kikipoo_57:
(13, 49077), (14, 49032), (17, 49002), (Start: 52 @48876 has 159 MA's), (Start: 53 @48873 has 121 MA's), (67, 48834), (84, 48753), (104, 48591), (105, 48588), (114, 48537),

Gene: Kimbrough_57 Start: 48885, Stop: 48514, Start Num: 52
Candidate Starts for Kimbrough_57:
(13, 49086), (14, 49041), (17, 49011), (Start: 52 @48885 has 159 MA's), (Start: 53 @48882 has 121 MA's), (67, 48843), (84, 48762), (104, 48600), (105, 48597), (114, 48546),

Gene: Kinbote_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Kinbote_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: KingCyrus_38 Start: 28997, Stop: 29380, Start Num: 50
Candidate Starts for KingCyrus_38:
(Start: 50 @28997 has 49 MA's), (80, 29081), (96, 29189), (102, 29240), (104, 29270), (122, 29357),

Gene: KingPhillip3_74 Start: 47553, Stop: 47176, Start Num: 43
Candidate Starts for KingPhillip3_74:
(Start: 43 @47553 has 34 MA's), (69, 47493), (73, 47481), (83, 47418), (98, 47325), (100, 47319), (106, 47274), (114, 47229), (124, 47190), (126, 47187),

Gene: KingTut_48 Start: 44549, Stop: 44178, Start Num: 52
Candidate Starts for KingTut_48:
(13, 44750), (14, 44705), (17, 44675), (Start: 52 @44549 has 159 MA's), (Start: 53 @44546 has 121 MA's), (67, 44507), (84, 44426), (104, 44264), (105, 44261), (114, 44210),

Gene: KingVeVeVe_54 Start: 47652, Stop: 47281, Start Num: 52
Candidate Starts for KingVeVeVe_54:
(13, 47853), (14, 47808), (17, 47778), (31, 47691), (Start: 52 @47652 has 159 MA's), (Start: 53 @47649 has 121 MA's), (67, 47610), (84, 47529), (104, 47367), (105, 47364), (114, 47313),

Gene: KlimbOn_55 Start: 48341, Stop: 47973, Start Num: 53
Candidate Starts for KlimbOn_55:
(13, 48545), (14, 48500), (17, 48470), (31, 48383), (Start: 52 @48344 has 159 MA's), (Start: 53 @48341 has 121 MA's), (67, 48302), (84, 48221), (104, 48059), (105, 48056), (114, 48005),

Gene: Kloppinator_56 Start: 48181, Stop: 47813, Start Num: 53
Candidate Starts for Kloppinator_56:
(5, 48544), (13, 48385), (14, 48340), (17, 48310), (31, 48223), (Start: 52 @48184 has 159 MA's), (Start: 53 @48181 has 121 MA's), (84, 48061), (104, 47899), (105, 47896), (114, 47845),

Gene: Koguma_22 Start: 6919, Stop: 7275, Start Num: 55
Candidate Starts for Koguma_22:
(Start: 55 @6919 has 187 MA's), (98, 7126), (114, 7222),

Gene: Konstantine_75 Start: 52975, Stop: 53364, Start Num: 55

Candidate Starts for Konstantine_75:
(Start: 55 @52975 has 187 MA's), (64, 53002), (69, 53014), (79, 53059), (80, 53062), (85, 53092), (103, 53242), (117, 53314),

Gene: Krili_75 Start: 47097, Stop: 46720, Start Num: 43
Candidate Starts for Krili_75:
(Start: 43 @47097 has 34 MA's), (69, 47037), (73, 47025), (83, 46962), (98, 46869), (100, 46863), (106, 46818), (114, 46773), (124, 46734), (126, 46731),

Gene: Krueger_78 Start: 49845, Stop: 50228, Start Num: 42
Candidate Starts for Krueger_78:
(Start: 42 @49845 has 18 MA's), (Start: 55 @49866 has 187 MA's), (68, 49905), (73, 49920), (87, 49992), (92, 50031), (98, 50067), (102, 50103), (113, 50169),

Gene: Kwadwo_55 Start: 48337, Stop: 47966, Start Num: 52
Candidate Starts for Kwadwo_55:
(13, 48538), (14, 48493), (17, 48463), (Start: 52 @48337 has 159 MA's), (Start: 53 @48334 has 121 MA's), (67, 48295), (82, 48223), (104, 48052), (105, 48049), (114, 47998),

Gene: Kwksand96_56 Start: 48215, Stop: 47847, Start Num: 53
Candidate Starts for Kwksand96_56:
(5, 48578), (13, 48419), (14, 48374), (17, 48344), (Start: 52 @48218 has 159 MA's), (Start: 53 @48215 has 121 MA's), (67, 48176), (73, 48158), (82, 48104), (84, 48095), (104, 47933), (105, 47930), (114, 47879),

Gene: LRRHood_23 Start: 8842, Stop: 9198, Start Num: 55
Candidate Starts for LRRHood_23:
(Start: 55 @8842 has 187 MA's), (98, 9049), (114, 9145),

Gene: Labeouficaum_56 Start: 48209, Stop: 47841, Start Num: 53
Candidate Starts for Labeouficaum_56:
(5, 48572), (13, 48413), (14, 48368), (17, 48338), (Start: 52 @48212 has 159 MA's), (Start: 53 @48209 has 121 MA's), (67, 48170), (73, 48152), (82, 48098), (84, 48089), (104, 47927), (105, 47924), (114, 47873),

Gene: Labradorite_25 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Labradorite_25:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Lambano_48 Start: 47161, Stop: 46760, Start Num: 44
Candidate Starts for Lambano_48:
(Start: 44 @47161 has 17 MA's), (66, 47113), (67, 47110), (68, 47107), (76, 47086), (109, 46840), (116, 46804),

Gene: Larenn_37 Start: 27686, Stop: 28081, Start Num: 50
Candidate Starts for Larenn_37:
(Start: 50 @27686 has 49 MA's), (69, 27734), (104, 27974), (106, 27980), (113, 28010),

Gene: Larson_58 Start: 48435, Stop: 48064, Start Num: 52
Candidate Starts for Larson_58:
(13, 48636), (14, 48591), (17, 48561), (Start: 52 @48435 has 159 MA's), (Start: 53 @48432 has 121 MA's), (67, 48393), (73, 48375), (82, 48321), (84, 48312), (104, 48150), (105, 48147), (114, 48096),

Gene: LasagnaCat_58 Start: 48749, Stop: 48378, Start Num: 52
Candidate Starts for LasagnaCat_58:
(13, 48950), (14, 48905), (17, 48875), (Start: 52 @48749 has 159 MA's), (Start: 53 @48746 has 121 MA's), (67, 48707), (84, 48626), (104, 48464), (105, 48461), (114, 48410),

Gene: Lasso_56 Start: 48612, Stop: 48241, Start Num: 52
Candidate Starts for Lasso_56:
(13, 48813), (14, 48768), (17, 48738), (Start: 52 @48612 has 159 MA's), (Start: 53 @48609 has 121 MA's), (67, 48570), (82, 48498), (104, 48327), (105, 48324), (114, 48273),

Gene: Latch_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Latch_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Lea83_75 Start: 50034, Stop: 50417, Start Num: 34
Candidate Starts for Lea83_75:
(Start: 34 @50034 has 8 MA's), (Start: 55 @50070 has 187 MA's), (68, 50106), (81, 50160), (95, 50247), (96, 50253), (98, 50268), (113, 50370), (114, 50385),

Gene: Lee7_25 Start: 8696, Stop: 9052, Start Num: 55
Candidate Starts for Lee7_25:
(Start: 55 @8696 has 187 MA's), (98, 8903), (114, 8999),

Gene: LeeLot_56 Start: 48664, Stop: 48293, Start Num: 52
Candidate Starts for LeeLot_56:
(13, 48865), (14, 48820), (17, 48790), (Start: 52 @48664 has 159 MA's), (Start: 53 @48661 has 121 MA's), (67, 48622), (84, 48541), (104, 48379), (105, 48376), (114, 48325),

Gene: Lego3393_55 Start: 48876, Stop: 48505, Start Num: 52
Candidate Starts for Lego3393_55:
(13, 49077), (14, 49032), (17, 49002), (Start: 52 @48876 has 159 MA's), (Start: 53 @48873 has 121 MA's), (67, 48834), (84, 48753), (104, 48591), (105, 48588), (114, 48537),

Gene: Legolas_58 Start: 48763, Stop: 48392, Start Num: 52
Candidate Starts for Legolas_58:
(13, 48964), (14, 48919), (17, 48889), (Start: 52 @48763 has 159 MA's), (Start: 53 @48760 has 121 MA's), (67, 48721), (84, 48640), (104, 48478), (105, 48475), (114, 48424),

Gene: Lehmann_56 Start: 48235, Stop: 47864, Start Num: 52
Candidate Starts for Lehmann_56:
(13, 48436), (14, 48391), (17, 48361), (31, 48274), (Start: 52 @48235 has 159 MA's), (Start: 53 @48232 has 121 MA's), (67, 48193), (82, 48121), (84, 48112), (104, 47950), (105, 47947), (114, 47896),

Gene: LeiMonet_58 Start: 48282, Stop: 47911, Start Num: 52
Candidate Starts for LeiMonet_58:
(13, 48483), (14, 48438), (17, 48408), (31, 48321), (Start: 52 @48282 has 159 MA's), (Start: 53 @48279 has 121 MA's), (67, 48240), (82, 48168), (104, 47997), (105, 47994), (114, 47943),

Gene: LemonSlice_57 Start: 48354, Stop: 47983, Start Num: 52
Candidate Starts for LemonSlice_57:
(13, 48555), (14, 48510), (17, 48480), (Start: 52 @48354 has 159 MA's), (Start: 53 @48351 has 121 MA's), (67, 48312), (73, 48294), (82, 48240), (84, 48231), (104, 48069), (105, 48066), (114, 48015),

Gene: Lethe_25 Start: 8393, Stop: 8749, Start Num: 55
Candidate Starts for Lethe_25:
(Start: 55 @8393 has 187 MA's), (98, 8600), (114, 8696),

Gene: Leviathan_37 Start: 27676, Stop: 28074, Start Num: 50
Candidate Starts for Leviathan_37:
(Start: 50 @27676 has 49 MA's), (69, 27724), (104, 27967), (106, 27973), (113, 28003),

Gene: LifeSavor_27 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for LifeSavor_27:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: LilHazelnut_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for LilHazelnut_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247),
(67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119,
32920), (127, 32899),

Gene: LilTurb_36 Start: 27509, Stop: 27907, Start Num: 50
Candidate Starts for LilTurb_36:
(Start: 50 @27509 has 49 MA's), (69, 27557), (104, 27800), (106, 27806), (113, 27836),

Gene: LinStu_26 Start: 9052, Stop: 9408, Start Num: 55
Candidate Starts for LinStu_26:
(Start: 55 @9052 has 187 MA's), (98, 9259), (114, 9355),

Gene: LionsBait_37 Start: 28638, Stop: 28988, Start Num: 62
Candidate Starts for LionsBait_37:
(Start: 25 @28545 has 1 MA's), (61, 28635), (Start: 62 @28638 has 4 MA's), (80, 28689), (86, 28731),
(104, 28881), (110, 28905),

Gene: LittleDigger_48 Start: 47174, Stop: 46776, Start Num: 44
Candidate Starts for LittleDigger_48:
(Start: 44 @47174 has 17 MA's), (66, 47126), (67, 47123), (76, 47102), (109, 46856), (116, 46820),

Gene: Littleton_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Littleton_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Loanshark_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Loanshark_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Lokk_39 Start: 28500, Stop: 28871, Start Num: 62
Candidate Starts for Lokk_39:
(Start: 62 @28500 has 4 MA's), (87, 28617), (98, 28692), (104, 28758), (113, 28794), (119, 28833),
(122, 28845), (126, 28851),

Gene: LolaVinca_29 Start: 9911, Stop: 10267, Start Num: 55
Candidate Starts for LolaVinca_29:
(Start: 55 @9911 has 187 MA's), (85, 10025), (98, 10118), (114, 10214),

Gene: Lolalove_50 Start: 48182, Stop: 47784, Start Num: 44
Candidate Starts for Lolalove_50:
(5, 48515), (Start: 44 @48182 has 17 MA's), (66, 48134), (67, 48131), (76, 48110), (105, 47885), (109, 47864), (116, 47828),

Gene: Longacauda_57 Start: 48726, Stop: 48355, Start Num: 52
Candidate Starts for Longacauda_57:
(13, 48927), (14, 48882), (17, 48852), (Start: 52 @48726 has 159 MA's), (Start: 53 @48723 has 121 MA's), (67, 48684), (84, 48603), (104, 48441), (105, 48438), (114, 48387),

Gene: LookingGlass_29 Start: 9473, Stop: 9829, Start Num: 55
Candidate Starts for LookingGlass_29:
(Start: 55 @9473 has 187 MA's), (85, 9587), (98, 9680), (114, 9776),

Gene: Lopsy_53 Start: 47237, Stop: 46869, Start Num: 53
Candidate Starts for Lopsy_53:
(13, 47441), (14, 47396), (17, 47366), (31, 47279), (Start: 52 @47240 has 159 MA's), (Start: 53 @47237 has 121 MA's), (67, 47198), (82, 47126), (84, 47117), (104, 46955), (105, 46952), (114, 46901),

Gene: LordLeafolot_32 Start: 10269, Stop: 10625, Start Num: 55
Candidate Starts for LordLeafolot_32:
(Start: 55 @10269 has 187 MA's), (85, 10383), (98, 10476), (114, 10572),

Gene: LostAndPhound_56 Start: 48369, Stop: 47998, Start Num: 52
Candidate Starts for LostAndPhound_56:
(13, 48570), (14, 48525), (17, 48495), (Start: 52 @48369 has 159 MA's), (Start: 53 @48366 has 121 MA's), (67, 48327), (82, 48255), (104, 48084), (105, 48081), (114, 48030),

Gene: LuckyMarjie_54 Start: 48045, Stop: 47674, Start Num: 52
Candidate Starts for LuckyMarjie_54:
(13, 48246), (14, 48201), (17, 48171), (31, 48084), (Start: 52 @48045 has 159 MA's), (Start: 53 @48042 has 121 MA's), (84, 47922), (104, 47760), (105, 47757), (114, 47706),

Gene: Luke_43 Start: 33271, Stop: 32846, Start Num: 28
Candidate Starts for Luke_43:
(16, 33364), (Start: 28 @33271 has 15 MA's), (Start: 38 @33247 has 2 MA's), (59, 33205), (60, 33202), (67, 33181), (75, 33160), (80, 33130), (95, 33028), (113, 32914), (114, 32899), (115, 32896), (119, 32875), (127, 32854),

Gene: Lukilu_19 Start: 7293, Stop: 7649, Start Num: 55
Candidate Starts for Lukilu_19:
(Start: 55 @7293 has 187 MA's), (98, 7500), (114, 7596),

Gene: Lulumae_54 Start: 48030, Stop: 47659, Start Num: 52
Candidate Starts for Lulumae_54:
(13, 48231), (14, 48186), (17, 48156), (31, 48069), (Start: 52 @48030 has 159 MA's), (Start: 53 @48027 has 121 MA's), (84, 47907), (104, 47745), (105, 47742), (114, 47691),

Gene: Lulwa_54 Start: 47669, Stop: 47298, Start Num: 52
Candidate Starts for Lulwa_54:
(13, 47870), (14, 47825), (17, 47795), (Start: 52 @47669 has 159 MA's), (Start: 53 @47666 has 121 MA's), (67, 47627), (82, 47555), (104, 47384), (105, 47381), (114, 47330),

Gene: Lumine_57 Start: 48514, Stop: 48143, Start Num: 52
Candidate Starts for Lumine_57:
(13, 48715), (14, 48670), (17, 48640), (Start: 52 @48514 has 159 MA's), (Start: 53 @48511 has 121 MA's), (67, 48472), (84, 48391), (104, 48229), (105, 48226), (114, 48175),

Gene: Luna22_41 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Luna22_41:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Lunareta_25 Start: 8433, Stop: 8789, Start Num: 55
Candidate Starts for Lunareta_25:
(Start: 55 @8433 has 187 MA's), (98, 8640), (114, 8736),

Gene: MRabcd_55 Start: 48427, Stop: 48056, Start Num: 52
Candidate Starts for MRabcd_55:
(13, 48628), (14, 48583), (17, 48553), (Start: 52 @48427 has 159 MA's), (Start: 53 @48424 has 121 MA's), (67, 48385), (82, 48313), (104, 48142), (105, 48139), (114, 48088),

Gene: Maby2021_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Maby2021_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: MacnCheese_77 Start: 50498, Stop: 50944, Start Num: 23
Candidate Starts for MacnCheese_77:
(Start: 23 @50498 has 1 MA's), (Start: 42 @50567 has 18 MA's), (Start: 52 @50582 has 159 MA's), (Start: 55 @50588 has 187 MA's), (60, 50603), (68, 50618), (70, 50624), (87, 50708), (96, 50768), (98, 50783), (111, 50876),

Gene: MadKillah_77 Start: 47366, Stop: 46989, Start Num: 43
Candidate Starts for MadKillah_77:
(Start: 43 @47366 has 34 MA's), (69, 47306), (73, 47294), (83, 47231), (98, 47138), (100, 47132), (106, 47087), (114, 47042), (124, 47003), (126, 47000),

Gene: Mag7_56 Start: 48272, Stop: 47901, Start Num: 52
Candidate Starts for Mag7_56:
(5, 48632), (13, 48473), (14, 48428), (17, 48398), (Start: 52 @48272 has 159 MA's), (Start: 53 @48269 has 121 MA's), (67, 48230), (73, 48212), (82, 48158), (84, 48149), (104, 47987), (105, 47984), (114, 47933),

Gene: Magic8_57 Start: 48665, Stop: 48297, Start Num: 53
Candidate Starts for Magic8_57:
(13, 48869), (14, 48824), (17, 48794), (Start: 52 @48668 has 159 MA's), (Start: 53 @48665 has 121 MA's), (67, 48626), (84, 48545), (104, 48383), (105, 48380), (114, 48329),

Gene: Magpie_48 Start: 48017, Stop: 47619, Start Num: 44
Candidate Starts for Magpie_48:
(Start: 44 @48017 has 17 MA's), (66, 47969), (67, 47966), (76, 47945), (105, 47720), (109, 47699), (116, 47663),

Gene: Magsby_42 Start: 30667, Stop: 31065, Start Num: 36

Candidate Starts for Magsby_42:
(Start: 36 @30667 has 27 MA's), (Start: 62 @30718 has 4 MA's), (67, 30733), (98, 30916), (100, 30922), (106, 30973), (112, 30994), (113, 30997), (114, 31012), (119, 31036), (124, 31051), (126, 31054),

Gene: Malec_38 Start: 28247, Stop: 28645, Start Num: 50
Candidate Starts for Malec_38:
(Start: 50 @28247 has 49 MA's), (86, 28388), (104, 28538), (106, 28544), (113, 28574),

Gene: Mana_55 Start: 48352, Stop: 47981, Start Num: 52
Candidate Starts for Mana_55:
(13, 48553), (14, 48508), (17, 48478), (Start: 52 @48352 has 159 MA's), (Start: 53 @48349 has 121 MA's), (67, 48310), (82, 48238), (104, 48067), (105, 48064), (114, 48013),

Gene: Manad_55 Start: 48327, Stop: 47956, Start Num: 52
Candidate Starts for Manad_55:
(13, 48528), (14, 48483), (17, 48453), (31, 48366), (Start: 52 @48327 has 159 MA's), (Start: 53 @48324 has 121 MA's), (67, 48285), (82, 48213), (84, 48204), (104, 48042), (105, 48039), (114, 47988),

Gene: Mangeria_29 Start: 9225, Stop: 9581, Start Num: 55
Candidate Starts for Mangeria_29:
(Start: 55 @9225 has 187 MA's), (85, 9339), (98, 9432), (114, 9528),

Gene: Mao1_56 Start: 45715, Stop: 46089, Start Num: 33
Candidate Starts for Mao1_56:
(20, 45658), (Start: 33 @45715 has 1 MA's), (41, 45730), (48, 45745), (64, 45781), (73, 45808), (98, 45958), (113, 46036), (114, 46051),

Gene: Marcoliusprime_39 Start: 31497, Stop: 31114, Start Num: 37
Candidate Starts for Marcoliusprime_39:
(Start: 37 @31497 has 11 MA's), (68, 31437), (81, 31374), (90, 31323), (98, 31266), (106, 31194), (114, 31149), (115, 31146), (119, 31125),

Gene: MarkPhew_75 Start: 49591, Stop: 49965, Start Num: 42
Candidate Starts for MarkPhew_75:
(Start: 42 @49591 has 18 MA's), (70, 49648), (81, 49696), (90, 49747), (92, 49768), (98, 49804), (102, 49840), (107, 49879), (111, 49897), (113, 49906), (114, 49921),

Gene: Marshawn_72 Start: 49975, Stop: 50358, Start Num: 42
Candidate Starts for Marshawn_72:
(Start: 42 @49975 has 18 MA's), (Start: 45 @49981 has 1 MA's), (68, 50035), (69, 50038), (73, 50050), (87, 50122), (90, 50140), (92, 50161), (98, 50197), (102, 50233), (107, 50272), (111, 50290), (113, 50299), (125, 50353),

Gene: Maru_56 Start: 48788, Stop: 48420, Start Num: 53
Candidate Starts for Maru_56:
(13, 48992), (14, 48947), (17, 48917), (Start: 52 @48791 has 159 MA's), (Start: 53 @48788 has 121 MA's), (67, 48749), (82, 48677), (104, 48506), (105, 48503), (114, 48452),

Gene: Mask_57 Start: 48051, Stop: 48449, Start Num: 34
Candidate Starts for Mask_57:

(Start: 34 @48051 has 8 MA's), (Start: 55 @48081 has 187 MA's), (67, 48117), (98, 48300), (100, 48306), (103, 48345), (106, 48357), (112, 48378), (113, 48381), (114, 48396), (124, 48435), (126, 48438),

Gene: Maskar_57 Start: 48338, Stop: 47967, Start Num: 52
Candidate Starts for Maskar_57:
(5, 48698), (13, 48539), (14, 48494), (17, 48464), (Start: 52 @48338 has 159 MA's), (Start: 53 @48335 has 121 MA's), (67, 48296), (73, 48278), (82, 48224), (84, 48215), (104, 48053), (105, 48050), (114, 47999),

Gene: Matalotodo_55 Start: 48362, Stop: 47991, Start Num: 52
Candidate Starts for Matalotodo_55:
(13, 48563), (14, 48518), (17, 48488), (Start: 52 @48362 has 159 MA's), (Start: 53 @48359 has 121 MA's), (67, 48320), (84, 48239), (104, 48077), (105, 48074), (114, 48023),

Gene: Matsumoto_25 Start: 8115, Stop: 8471, Start Num: 55
Candidate Starts for Matsumoto_25:
(Start: 55 @8115 has 187 MA's), (85, 8229), (98, 8322), (114, 8418),

Gene: Maturis_26 Start: 8472, Stop: 8828, Start Num: 55
Candidate Starts for Maturis_26:
(Start: 55 @8472 has 187 MA's), (98, 8679), (114, 8775),

Gene: McGee_25 Start: 7341, Stop: 7697, Start Num: 55
Candidate Starts for McGee_25:
(Start: 55 @7341 has 187 MA's), (98, 7548), (114, 7644),

Gene: McWolfish_25 Start: 8449, Stop: 8805, Start Num: 55
Candidate Starts for McWolfish_25:
(Start: 55 @8449 has 187 MA's), (98, 8656), (114, 8752),

Gene: Mcshane_55 Start: 48347, Stop: 47979, Start Num: 53
Candidate Starts for Mcshane_55:
(13, 48551), (14, 48506), (17, 48476), (Start: 52 @48350 has 159 MA's), (Start: 53 @48347 has 121 MA's), (67, 48308), (84, 48227), (104, 48065), (105, 48062), (114, 48011),

Gene: Mecca_56 Start: 48873, Stop: 48502, Start Num: 52
Candidate Starts for Mecca_56:
(13, 49074), (14, 49029), (17, 48999), (Start: 52 @48873 has 159 MA's), (Start: 53 @48870 has 121 MA's), (67, 48831), (84, 48750), (104, 48588), (105, 48585), (114, 48534),

Gene: Megamind_26 Start: 8690, Stop: 9046, Start Num: 55
Candidate Starts for Megamind_26:
(Start: 55 @8690 has 187 MA's), (85, 8804), (98, 8897), (114, 8993),

Gene: Megamind20_57 Start: 48338, Stop: 47967, Start Num: 52
Candidate Starts for Megamind20_57:
(13, 48539), (14, 48494), (17, 48464), (Start: 52 @48338 has 159 MA's), (Start: 53 @48335 has 121 MA's), (67, 48296), (84, 48215), (104, 48053), (105, 48050), (114, 47999),

Gene: Megatron_57 Start: 48864, Stop: 48493, Start Num: 52
Candidate Starts for Megatron_57:

(13, 49065), (14, 49020), (17, 48990), (Start: 52 @48864 has 159 MA's), (Start: 53 @48861 has 121 MA's), (67, 48822), (84, 48741), (104, 48579), (105, 48576), (114, 48525),

Gene: Megatron06_72 Start: 52721, Stop: 53110, Start Num: 55
Candidate Starts for Megatron06_72:
(Start: 55 @52721 has 187 MA's), (64, 52748), (69, 52760), (79, 52805), (80, 52808), (85, 52838), (103, 52988), (117, 53060),

Gene: Melc17_56 Start: 49179, Stop: 48811, Start Num: 53
Candidate Starts for Melc17_56:
(13, 49383), (14, 49338), (17, 49308), (Start: 52 @49182 has 159 MA's), (Start: 53 @49179 has 121 MA's), (67, 49140), (84, 49059), (104, 48897), (105, 48894), (114, 48843),

Gene: Melpomini_25 Start: 7556, Stop: 7912, Start Num: 55
Candidate Starts for Melpomini_25:
(Start: 55 @7556 has 187 MA's), (85, 7670), (98, 7763), (114, 7859),

Gene: MelsMeow_56 Start: 48391, Stop: 48020, Start Num: 52
Candidate Starts for MelsMeow_56:
(5, 48751), (13, 48592), (14, 48547), (17, 48517), (Start: 52 @48391 has 159 MA's), (Start: 53 @48388 has 121 MA's), (67, 48349), (73, 48331), (82, 48277), (84, 48268), (104, 48106), (105, 48103), (114, 48052),

Gene: Melville_45 Start: 30651, Stop: 31049, Start Num: 36
Candidate Starts for Melville_45:
(Start: 36 @30651 has 27 MA's), (Start: 62 @30702 has 4 MA's), (67, 30717), (98, 30900), (100, 30906), (106, 30957), (112, 30978), (113, 30981), (114, 30996), (119, 31020), (124, 31035), (126, 31038),

Gene: Mendokysei_38 Start: 30582, Stop: 30983, Start Num: 39
Candidate Starts for Mendokysei_38:
(Start: 39 @30582 has 5 MA's), (Start: 47 @30600 has 1 MA's), (67, 30648), (94, 30807), (98, 30831), (114, 30951),

Gene: Mesh1_57 Start: 48881, Stop: 48513, Start Num: 53
Candidate Starts for Mesh1_57:
(13, 49085), (14, 49040), (17, 49010), (Start: 52 @48884 has 159 MA's), (Start: 53 @48881 has 121 MA's), (67, 48842), (82, 48770), (104, 48599), (105, 48596), (114, 48545),

Gene: Mesmerelda_55 Start: 48321, Stop: 47953, Start Num: 53
Candidate Starts for Mesmerelda_55:
(13, 48525), (14, 48480), (17, 48450), (Start: 52 @48324 has 159 MA's), (Start: 53 @48321 has 121 MA's), (67, 48282), (84, 48201), (104, 48039), (105, 48036), (114, 47985),

Gene: MichaelPhcott_56 Start: 48266, Stop: 47898, Start Num: 53
Candidate Starts for MichaelPhcott_56:
(5, 48629), (13, 48470), (14, 48425), (17, 48395), (Start: 52 @48269 has 159 MA's), (Start: 53 @48266 has 121 MA's), (67, 48227), (73, 48209), (82, 48155), (84, 48146), (104, 47984), (105, 47981), (114, 47930),

Gene: MiculUcigas_36 Start: 27376, Stop: 27771, Start Num: 50
Candidate Starts for MiculUcigas_36:
(Start: 50 @27376 has 49 MA's), (102, 27634), (104, 27664), (113, 27700),

Gene: MikeLiesIn_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for MikeLiesIn_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Miko_39 Start: 28708, Stop: 29079, Start Num: 62
Candidate Starts for Miko_39:
(Start: 62 @28708 has 4 MA's), (87, 28825), (98, 28900), (102, 28936), (104, 28966), (113, 29002), (119, 29041), (122, 29053), (126, 29059),

Gene: Mikota_54 Start: 47646, Stop: 47278, Start Num: 53
Candidate Starts for Mikota_54:
(13, 47850), (14, 47805), (17, 47775), (31, 47688), (Start: 52 @47649 has 159 MA's), (Start: 53 @47646 has 121 MA's), (67, 47607), (84, 47526), (104, 47364), (105, 47361), (114, 47310),

Gene: Mikro_24 Start: 9185, Stop: 9541, Start Num: 55
Candidate Starts for Mikro_24:
(Start: 55 @9185 has 187 MA's), (85, 9299), (98, 9392), (114, 9488),

Gene: Milly_39 Start: 31470, Stop: 31087, Start Num: 37
Candidate Starts for Milly_39:
(Start: 37 @31470 has 11 MA's), (68, 31410), (81, 31347), (90, 31296), (98, 31239), (106, 31167), (114, 31122), (119, 31098),

Gene: MiniBoss_54 Start: 47652, Stop: 47284, Start Num: 53
Candidate Starts for MiniBoss_54:
(13, 47856), (14, 47811), (17, 47781), (31, 47694), (Start: 52 @47655 has 159 MA's), (Start: 53 @47652 has 121 MA's), (67, 47613), (84, 47532), (104, 47370), (105, 47367), (114, 47316),

Gene: MitKao_56 Start: 48359, Stop: 47991, Start Num: 53
Candidate Starts for MitKao_56:
(13, 48563), (14, 48518), (17, 48488), (Start: 52 @48362 has 159 MA's), (Start: 53 @48359 has 121 MA's), (67, 48320), (82, 48248), (104, 48077), (105, 48074), (114, 48023),

Gene: MoMoMixon_27 Start: 9016, Stop: 9372, Start Num: 55
Candidate Starts for MoMoMixon_27:
(Start: 55 @9016 has 187 MA's), (98, 9223), (114, 9319),

Gene: Moby_20 Start: 5697, Stop: 6053, Start Num: 55
Candidate Starts for Moby_20:
(Start: 55 @5697 has 187 MA's), (98, 5904), (114, 6000),

Gene: Moiqah_20 Start: 5697, Stop: 6053, Start Num: 55
Candidate Starts for Moiqah_20:
(Start: 55 @5697 has 187 MA's), (98, 5904), (114, 6000),

Gene: Momo_25 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Momo_25:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Montpel_25 Start: 8433, Stop: 8789, Start Num: 55
Candidate Starts for Montpel_25:
(Start: 55 @8433 has 187 MA's), (98, 8640), (114, 8736),

Gene: Mopey_57 Start: 42726, Stop: 43106, Start Num: 46
Candidate Starts for Mopey_57:
(Start: 46 @42726 has 21 MA's), (63, 42759), (64, 42762), (65, 42765), (79, 42819), (80, 42822), (97, 42942), (114, 43053), (115, 43056),

Gene: Morgushi_56 Start: 48348, Stop: 47980, Start Num: 53
Candidate Starts for Morgushi_56:
(13, 48552), (14, 48507), (17, 48477), (Start: 52 @48351 has 159 MA's), (Start: 53 @48348 has 121 MA's), (67, 48309), (82, 48237), (104, 48066), (105, 48063), (114, 48012),

Gene: Mori_76 Start: 47628, Stop: 47251, Start Num: 43
Candidate Starts for Mori_76:
(Start: 43 @47628 has 34 MA's), (69, 47568), (73, 47556), (83, 47493), (98, 47400), (100, 47394), (106, 47349), (114, 47304), (124, 47265), (126, 47262),

Gene: Morizzled23_25 Start: 7556, Stop: 7912, Start Num: 55
Candidate Starts for Morizzled23_25:
(Start: 55 @7556 has 187 MA's), (85, 7670), (98, 7763), (114, 7859),

Gene: Morty_57 Start: 48873, Stop: 48502, Start Num: 52
Candidate Starts for Morty_57:
(13, 49074), (14, 49029), (17, 48999), (Start: 52 @48873 has 159 MA's), (Start: 53 @48870 has 121 MA's), (67, 48831), (84, 48750), (104, 48588), (105, 48585), (114, 48534),

Gene: Mosaic_55 Start: 48356, Stop: 47985, Start Num: 52
Candidate Starts for Mosaic_55:
(13, 48557), (14, 48512), (17, 48482), (Start: 52 @48356 has 159 MA's), (Start: 53 @48353 has 121 MA's), (67, 48314), (82, 48242), (104, 48071), (105, 48068), (114, 48017),

Gene: MrPhizzler_58 Start: 48815, Stop: 48447, Start Num: 53
Candidate Starts for MrPhizzler_58:
(5, 49178), (13, 49019), (14, 48974), (17, 48944), (Start: 52 @48818 has 159 MA's), (Start: 53 @48815 has 121 MA's), (67, 48776), (82, 48704), (104, 48533), (105, 48530), (114, 48479),

Gene: Mudslide_49 Start: 48447, Stop: 48049, Start Num: 44
Candidate Starts for Mudslide_49:
(Start: 44 @48447 has 17 MA's), (66, 48399), (67, 48396), (76, 48375), (105, 48150), (109, 48129), (116, 48093),

Gene: Mufasa_40 Start: 31391, Stop: 31008, Start Num: 37
Candidate Starts for Mufasa_40:
(Start: 37 @31391 has 11 MA's), (68, 31331), (81, 31268), (90, 31217), (95, 31181), (98, 31160), (106, 31088), (114, 31043),

Gene: Mulan_56 Start: 48587, Stop: 48219, Start Num: 53
Candidate Starts for Mulan_56:
(13, 48791), (14, 48746), (17, 48716), (Start: 52 @48590 has 159 MA's), (Start: 53 @48587 has 121 MA's), (67, 48548), (84, 48467), (104, 48305), (105, 48302), (114, 48251),

Gene: Murai_76 Start: 47760, Stop: 47383, Start Num: 43
Candidate Starts for Murai_76:

(Start: 43 @47760 has 34 MA's), (69, 47700), (73, 47688), (83, 47625), (98, 47532), (100, 47526), (106, 47481), (114, 47436), (124, 47397), (126, 47394),

Gene: Murdoc_55 Start: 48349, Stop: 47981, Start Num: 53
Candidate Starts for Murdoc_55:
(13, 48553), (14, 48508), (17, 48478), (Start: 52 @48352 has 159 MA's), (Start: 53 @48349 has 121 MA's), (67, 48310), (84, 48229), (104, 48067), (105, 48064), (114, 48013),

Gene: Mutante_56 Start: 48359, Stop: 47991, Start Num: 53
Candidate Starts for Mutante_56:
(13, 48563), (14, 48518), (17, 48488), (Start: 52 @48362 has 159 MA's), (Start: 53 @48359 has 121 MA's), (67, 48320), (84, 48239), (104, 48077), (105, 48074), (114, 48023),

Gene: Mysterious_52 Start: 48647, Stop: 48231, Start Num: 43
Candidate Starts for Mysterious_52:
(4, 49025), (6, 48980), (7, 48977), (Start: 43 @48647 has 34 MA's), (66, 48593), (105, 48332),

Gene: NaSiaTalie_36 Start: 27374, Stop: 27769, Start Num: 50
Candidate Starts for NaSiaTalie_36:
(Start: 50 @27374 has 49 MA's), (102, 27632), (104, 27662), (113, 27698),

Gene: Nacho_0057 Start: 48867, Stop: 48496, Start Num: 52
Candidate Starts for Nacho_0057:
(13, 49068), (14, 49023), (17, 48993), (Start: 52 @48867 has 159 MA's), (Start: 53 @48864 has 121 MA's), (67, 48825), (84, 48744), (104, 48582), (105, 48579), (114, 48528),

Gene: Naija_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Naija_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Nairb_39 Start: 31045, Stop: 31446, Start Num: 39
Candidate Starts for Nairb_39:
(11, 30802), (Start: 39 @31045 has 5 MA's), (Start: 47 @31063 has 1 MA's), (87, 31219), (94, 31270), (98, 31294), (114, 31414), (115, 31417),

Gene: Nanao_48 Start: 47151, Stop: 46753, Start Num: 44
Candidate Starts for Nanao_48:
(Start: 44 @47151 has 17 MA's), (66, 47103), (67, 47100), (76, 47079), (109, 46833), (116, 46797),

Gene: Nangang_54 Start: 48876, Stop: 48463, Start Num: 43
Candidate Starts for Nangang_54:
(4, 49254), (6, 49209), (7, 49206), (Start: 43 @48876 has 34 MA's), (72, 48804), (107, 48558), (108, 48555), (113, 48528),

Gene: Napoleon13_25 Start: 7575, Stop: 7931, Start Num: 55
Candidate Starts for Napoleon13_25:
(Start: 55 @7575 has 187 MA's), (85, 7689), (98, 7782), (114, 7878),

Gene: Nappy_27 Start: 8863, Stop: 9219, Start Num: 55
Candidate Starts for Nappy_27:
(Start: 55 @8863 has 187 MA's), (85, 8977), (98, 9070), (114, 9166),

Gene: Nathan_57 Start: 48443, Stop: 48072, Start Num: 52

Candidate Starts for Nathan_57:
(13, 48644), (14, 48599), (17, 48569), (31, 48482), (Start: 52 @48443 has 159 MA's), (Start: 53 @48440 has 121 MA's), (84, 48320), (104, 48158), (105, 48155), (114, 48104),

Gene: Naval22_28 Start: 8739, Stop: 9095, Start Num: 55
Candidate Starts for Naval22_28:
(Start: 55 @8739 has 187 MA's), (85, 8853), (98, 8946), (114, 9042),

Gene: NedWong_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for NedWong_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Nehemiah_53 Start: 48647, Stop: 48231, Start Num: 43
Candidate Starts for Nehemiah_53:
(4, 49025), (6, 48980), (7, 48977), (Start: 43 @48647 has 34 MA's), (66, 48593), (105, 48332),

Gene: Nette_41 Start: 30591, Stop: 30992, Start Num: 39
Candidate Starts for Nette_41:
(Start: 39 @30591 has 5 MA's), (Start: 47 @30609 has 1 MA's), (67, 30657), (94, 30816), (98, 30840), (114, 30960),

Gene: Newman_55 Start: 48347, Stop: 47976, Start Num: 52
Candidate Starts for Newman_55:
(13, 48548), (14, 48503), (17, 48473), (31, 48386), (Start: 52 @48347 has 159 MA's), (Start: 53 @48344 has 121 MA's), (67, 48305), (82, 48233), (104, 48062), (105, 48059), (114, 48008),

Gene: Ngannou_24 Start: 7330, Stop: 7686, Start Num: 55
Candidate Starts for Ngannou_24:
(Start: 55 @7330 has 187 MA's), (85, 7444), (98, 7537), (114, 7633),

Gene: Nicole21_57 Start: 48596, Stop: 48228, Start Num: 53
Candidate Starts for Nicole21_57:
(13, 48800), (14, 48755), (17, 48725), (Start: 52 @48599 has 159 MA's), (Start: 53 @48596 has 121 MA's), (67, 48557), (84, 48476), (104, 48314), (105, 48311), (114, 48260),

Gene: Nidhogg_27 Start: 8769, Stop: 9125, Start Num: 55
Candidate Starts for Nidhogg_27:
(Start: 55 @8769 has 187 MA's), (98, 8976), (114, 9072),

Gene: NiebruSaylor_75 Start: 47016, Stop: 46639, Start Num: 43
Candidate Starts for NiebruSaylor_75:
(Start: 43 @47016 has 34 MA's), (69, 46956), (73, 46944), (83, 46881), (98, 46788), (100, 46782), (106, 46737), (114, 46692), (124, 46653), (126, 46650),

Gene: Nigel_50 Start: 48156, Stop: 47758, Start Num: 44
Candidate Starts for Nigel_50:
(Start: 44 @48156 has 17 MA's), (66, 48108), (67, 48105), (76, 48084), (99, 47919), (105, 47859), (113, 47823),

Gene: NoodleTree_25 Start: 8186, Stop: 8542, Start Num: 55
Candidate Starts for NoodleTree_25:
(Start: 55 @8186 has 187 MA's), (98, 8393), (114, 8489),

Gene: Norm_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Norm_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Nova_55 Start: 43178, Stop: 43558, Start Num: 46
Candidate Starts for Nova_55:
(Start: 46 @43178 has 21 MA's), (63, 43211), (64, 43214), (65, 43217), (79, 43271), (80, 43274), (97, 43394), (114, 43505), (115, 43508),

Gene: November_71 Start: 49896, Stop: 50279, Start Num: 42
Candidate Starts for November_71:
(Start: 42 @49896 has 18 MA's), (69, 49959), (73, 49971), (92, 50082), (98, 50118), (111, 50211), (113, 50220),

Gene: NovoPizza_44 Start: 34983, Stop: 34570, Start Num: 32
Candidate Starts for NovoPizza_44:
(Start: 32 @34983 has 1 MA's), (Start: 55 @34941 has 187 MA's), (96, 34749), (113, 34641), (114, 34626), (119, 34602), (124, 34587),

Gene: NuevoMundo_29 Start: 9756, Stop: 10112, Start Num: 55
Candidate Starts for NuevoMundo_29:
(Start: 55 @9756 has 187 MA's), (85, 9870), (98, 9963), (114, 10059),

Gene: Numberten_55 Start: 48342, Stop: 47971, Start Num: 52
Candidate Starts for Numberten_55:
(5, 48702), (13, 48543), (14, 48498), (17, 48468), (31, 48381), (Start: 52 @48342 has 159 MA's), (Start: 53 @48339 has 121 MA's), (84, 48219), (104, 48057), (105, 48054), (114, 48003),

Gene: Nyala_55 Start: 48315, Stop: 47947, Start Num: 53
Candidate Starts for Nyala_55:
(13, 48519), (14, 48474), (17, 48444), (Start: 52 @48318 has 159 MA's), (Start: 53 @48315 has 121 MA's), (67, 48276), (84, 48195), (104, 48033), (105, 48030), (114, 47979),

Gene: OBUpride_43 Start: 33310, Stop: 32885, Start Num: 28
Candidate Starts for OBUpride_43:
(16, 33403), (Start: 28 @33310 has 15 MA's), (Start: 38 @33286 has 2 MA's), (59, 33244), (60, 33241), (67, 33220), (75, 33199), (80, 33169), (95, 33067), (113, 32953), (114, 32938), (115, 32935), (119, 32914), (127, 32893),

Gene: OSmaximus_57 Start: 48906, Stop: 48535, Start Num: 52
Candidate Starts for OSmaximus_57:
(13, 49107), (14, 49062), (17, 49032), (31, 48945), (Start: 52 @48906 has 159 MA's), (Start: 53 @48903 has 121 MA's), (67, 48864), (82, 48792), (104, 48621), (105, 48618), (114, 48567),

Gene: Oaker_71 Start: 52771, Stop: 53139, Start Num: 55
Candidate Starts for Oaker_71:
(Start: 55 @52771 has 187 MA's), (64, 52798), (69, 52810), (80, 52858), (81, 52873), (103, 53035), (113, 53071), (115, 53089),

Gene: Olak_55 Start: 48318, Stop: 47950, Start Num: 53
Candidate Starts for Olak_55:
(13, 48522), (14, 48477), (17, 48447), (Start: 52 @48321 has 159 MA's), (Start: 53 @48318 has 121 MA's), (67, 48279), (84, 48198), (104, 48036), (105, 48033), (114, 47982),

Gene: Oline_56 Start: 48216, Stop: 47845, Start Num: 52
Candidate Starts for Oline_56:
(5, 48576), (13, 48417), (14, 48372), (17, 48342), (Start: 52 @48216 has 159 MA's), (Start: 53 @48213 has 121 MA's), (67, 48174), (73, 48156), (82, 48102), (84, 48093), (104, 47931), (105, 47928), (114, 47877),

Gene: Olive_55 Start: 48332, Stop: 47961, Start Num: 52
Candidate Starts for Olive_55:
(8, 48677), (13, 48533), (14, 48488), (17, 48458), (31, 48371), (Start: 52 @48332 has 159 MA's), (Start: 53 @48329 has 121 MA's), (84, 48209), (104, 48047), (105, 48044), (114, 47993),

Gene: OliverWalter_55 Start: 48353, Stop: 47982, Start Num: 52
Candidate Starts for OliverWalter_55:
(13, 48554), (14, 48509), (17, 48479), (31, 48392), (Start: 52 @48353 has 159 MA's), (Start: 53 @48350 has 121 MA's), (67, 48311), (84, 48230), (104, 48068), (105, 48065), (114, 48014),

Gene: Omniscient_57 Start: 49180, Stop: 48809, Start Num: 52
Candidate Starts for Omniscient_57:
(5, 49540), (13, 49381), (14, 49336), (17, 49306), (Start: 52 @49180 has 159 MA's), (Start: 53 @49177 has 121 MA's), (67, 49138), (84, 49057), (104, 48895), (105, 48892), (114, 48841),

Gene: OneBrain_57 Start: 48384, Stop: 48013, Start Num: 52
Candidate Starts for OneBrain_57:
(13, 48585), (14, 48540), (17, 48510), (31, 48423), (Start: 52 @48384 has 159 MA's), (Start: 53 @48381 has 121 MA's), (67, 48342), (84, 48261), (104, 48099), (105, 48096), (114, 48045),

Gene: Oosterbaan_56 Start: 48639, Stop: 48271, Start Num: 53
Candidate Starts for Oosterbaan_56:
(13, 48843), (14, 48798), (17, 48768), (Start: 52 @48642 has 159 MA's), (Start: 53 @48639 has 121 MA's), (67, 48600), (84, 48519), (104, 48357), (105, 48354), (114, 48303),

Gene: OrediggerDelux_25 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for OrediggerDelux_25:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Orfeu_54 Start: 48312, Stop: 47944, Start Num: 53
Candidate Starts for Orfeu_54:
(13, 48516), (14, 48471), (17, 48441), (Start: 52 @48315 has 159 MA's), (Start: 53 @48312 has 121 MA's), (67, 48273), (84, 48192), (104, 48030), (105, 48027), (114, 47976),

Gene: Orion_57 Start: 48301, Stop: 47933, Start Num: 53
Candidate Starts for Orion_57:
(13, 48505), (14, 48460), (17, 48430), (Start: 52 @48304 has 159 MA's), (Start: 53 @48301 has 121 MA's), (67, 48262), (84, 48181), (104, 48019), (105, 48016), (114, 47965),

Gene: Orwigg_56 Start: 48281, Stop: 47913, Start Num: 53
Candidate Starts for Orwigg_56:
(13, 48485), (14, 48440), (17, 48410), (Start: 52 @48284 has 159 MA's), (Start: 53 @48281 has 121 MA's), (67, 48242), (84, 48161), (104, 47999), (105, 47996), (114, 47945),

Gene: PBI1_53 Start: 42653, Stop: 43033, Start Num: 46
Candidate Starts for PBI1_53:

(Start: 46 @42653 has 21 MA's), (63, 42686), (64, 42689), (65, 42692), (79, 42746), (80, 42749), (97, 42869), (114, 42980), (115, 42983),

Gene: PG1_57 Start: 48872, Stop: 48504, Start Num: 53
Candidate Starts for PG1_57:
(13, 49076), (14, 49031), (17, 49001), (Start: 52 @48875 has 159 MA's), (Start: 53 @48872 has 121 MA's), (67, 48833), (84, 48752), (104, 48590), (105, 48587), (114, 48536),

Gene: PLot_56 Start: 42705, Stop: 43085, Start Num: 46
Candidate Starts for PLot_56:
(Start: 46 @42705 has 21 MA's), (63, 42738), (64, 42741), (65, 42744), (79, 42798), (80, 42801), (97, 42921), (114, 43032), (115, 43035),

Gene: Pacifista_55 Start: 48314, Stop: 47946, Start Num: 53
Candidate Starts for Pacifista_55:
(13, 48518), (14, 48473), (17, 48443), (Start: 52 @48317 has 159 MA's), (Start: 53 @48314 has 121 MA's), (67, 48275), (84, 48194), (104, 48032), (105, 48029), (114, 47978),

Gene: PallasAthena_58 Start: 48361, Stop: 47990, Start Num: 52
Candidate Starts for PallasAthena_58:
(13, 48562), (14, 48517), (17, 48487), (Start: 52 @48361 has 159 MA's), (Start: 53 @48358 has 121 MA's), (67, 48319), (84, 48238), (104, 48076), (105, 48073), (114, 48022),

Gene: Panchino_39 Start: 31193, Stop: 31591, Start Num: 36
Candidate Starts for Panchino_39:
(Start: 36 @31193 has 27 MA's), (Start: 62 @31244 has 4 MA's), (67, 31259), (98, 31442), (100, 31448), (106, 31499), (112, 31520), (113, 31523), (114, 31538), (119, 31562), (124, 31577), (126, 31580),

Gene: ParkTD_25 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for ParkTD_25:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Parmesanjohn_42 Start: 30670, Stop: 31068, Start Num: 36
Candidate Starts for Parmesanjohn_42:
(Start: 36 @30670 has 27 MA's), (Start: 62 @30721 has 4 MA's), (67, 30736), (98, 30919), (100, 30925), (106, 30976), (112, 30997), (113, 31000), (114, 31015), (119, 31039), (124, 31054), (126, 31057),

Gene: Patter_26 Start: 8171, Stop: 8527, Start Num: 55
Candidate Starts for Patter_26:
(Start: 55 @8171 has 187 MA's), (85, 8285), (98, 8378), (114, 8474),

Gene: Penelope2018_56 Start: 42723, Stop: 43103, Start Num: 46
Candidate Starts for Penelope2018_56:
(Start: 46 @42723 has 21 MA's), (63, 42756), (64, 42759), (65, 42762), (79, 42816), (80, 42819), (97, 42939), (114, 43050), (115, 43053),

Gene: Phamished_57 Start: 48321, Stop: 47953, Start Num: 53
Candidate Starts for Phamished_57:
(13, 48525), (14, 48480), (17, 48450), (31, 48363), (Start: 52 @48324 has 159 MA's), (Start: 53 @48321 has 121 MA's), (67, 48282), (84, 48201), (104, 48039), (105, 48036), (114, 47985),

Gene: Pharb_73 Start: 49246, Stop: 49617, Start Num: 42
Candidate Starts for Pharb_73:
(Start: 42 @49246 has 18 MA's), (Start: 52 @49261 has 159 MA's), (Start: 55 @49267 has 187 MA's),
(68, 49297), (82, 49351), (87, 49381), (92, 49420), (96, 49441), (98, 49456), (102, 49492), (111,
49549), (113, 49558), (123, 49609),

Gene: Phareon_55 Start: 48039, Stop: 47668, Start Num: 52
Candidate Starts for Phareon_55:
(13, 48240), (14, 48195), (17, 48165), (31, 48078), (Start: 52 @48039 has 159 MA's), (Start: 53
@48036 has 121 MA's), (84, 47916), (104, 47754), (105, 47751), (114, 47700),

Gene: PharkleMinkus_31 Start: 10270, Stop: 10626, Start Num: 55
Candidate Starts for PharkleMinkus_31:
(Start: 55 @10270 has 187 MA's), (85, 10384), (98, 10477), (114, 10573),

Gene: PhatCats2014_57 Start: 48879, Stop: 48508, Start Num: 52
Candidate Starts for PhatCats2014_57:
(13, 49080), (14, 49035), (17, 49005), (Start: 52 @48879 has 159 MA's), (Start: 53 @48876 has 121
MA's), (67, 48837), (84, 48756), (104, 48594), (105, 48591), (114, 48540),

Gene: PhatLouie_57 Start: 48655, Stop: 48284, Start Num: 52
Candidate Starts for PhatLouie_57:
(5, 49015), (13, 48856), (14, 48811), (17, 48781), (31, 48694), (Start: 52 @48655 has 159 MA's),
(Start: 53 @48652 has 121 MA's), (84, 48532), (104, 48370), (105, 48367), (114, 48316),

Gene: Phelemich_52 Start: 48646, Stop: 48230, Start Num: 43
Candidate Starts for Phelemich_52:
(4, 49024), (6, 48979), (7, 48976), (Start: 43 @48646 has 34 MA's), (66, 48592), (105, 48331),

Gene: PhenghisKhan_56 Start: 48272, Stop: 47904, Start Num: 53
Candidate Starts for PhenghisKhan_56:
(5, 48635), (13, 48476), (14, 48431), (17, 48401), (Start: 52 @48275 has 159 MA's), (Start: 53 @48272
has 121 MA's), (67, 48233), (73, 48215), (82, 48161), (84, 48152), (104, 47990), (105, 47987), (114,
47936),

Gene: Pherdinand_57 Start: 48334, Stop: 47963, Start Num: 52
Candidate Starts for Pherdinand_57:
(13, 48535), (14, 48490), (17, 48460), (Start: 52 @48334 has 159 MA's), (Start: 53 @48331 has 121
MA's), (67, 48292), (84, 48211), (104, 48049), (105, 48046), (114, 47995),

Gene: Phergie_57 Start: 48264, Stop: 47896, Start Num: 53
Candidate Starts for Phergie_57:
(5, 48627), (13, 48468), (14, 48423), (17, 48393), (Start: 52 @48267 has 159 MA's), (Start: 53 @48264
has 121 MA's), (67, 48225), (73, 48207), (82, 48153), (84, 48144), (104, 47982), (105, 47979), (114,
47928),

Gene: Phipps_56 Start: 48152, Stop: 47781, Start Num: 52
Candidate Starts for Phipps_56:
(13, 48353), (14, 48308), (17, 48278), (Start: 52 @48152 has 159 MA's), (Start: 53 @48149 has 121
MA's), (67, 48110), (84, 48029), (104, 47867), (105, 47864), (114, 47813),

Gene: Phlegm_28 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Phlegm_28:

(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Phleuron_56 Start: 48269, Stop: 47901, Start Num: 53
Candidate Starts for Phleuron_56:
(5, 48632), (13, 48473), (14, 48428), (17, 48398), (Start: 52 @48272 has 159 MA's), (Start: 53 @48269 has 121 MA's), (67, 48230), (73, 48212), (82, 48158), (84, 48149), (104, 47987), (105, 47984), (114, 47933),

Gene: Phloss_40 Start: 30077, Stop: 30475, Start Num: 36
Candidate Starts for Phloss_40:
(Start: 36 @30077 has 27 MA's), (Start: 62 @30128 has 4 MA's), (67, 30143), (98, 30326), (100, 30332), (106, 30383), (112, 30404), (113, 30407), (114, 30422), (119, 30446), (124, 30461), (126, 30464),

Gene: Phox_25 Start: 8866, Stop: 9222, Start Num: 55
Candidate Starts for Phox_25:
(Start: 55 @8866 has 187 MA's), (98, 9073), (114, 9169),

Gene: PhrankReynolds_55 Start: 48272, Stop: 47901, Start Num: 52
Candidate Starts for PhrankReynolds_55:
(5, 48632), (13, 48473), (14, 48428), (17, 48398), (Start: 52 @48272 has 159 MA's), (Start: 53 @48269 has 121 MA's), (67, 48230), (73, 48212), (82, 48158), (84, 48149), (104, 47987), (105, 47984), (114, 47933),

Gene: Phrann_44 Start: 31873, Stop: 32271, Start Num: 36
Candidate Starts for Phrann_44:
(Start: 36 @31873 has 27 MA's), (Start: 62 @31924 has 4 MA's), (67, 31939), (98, 32122), (100, 32128), (106, 32179), (112, 32200), (113, 32203), (114, 32218), (119, 32242), (124, 32257), (126, 32260),

Gene: Phrappuccino_28 Start: 15030, Stop: 15431, Start Num: 36
Candidate Starts for Phrappuccino_28:
(Start: 36 @15030 has 27 MA's), (61, 15078), (72, 15108), (93, 15240), (106, 15339), (113, 15363), (114, 15378), (124, 15417),

Gene: Phreeze_70 Start: 51738, Stop: 52106, Start Num: 55
Candidate Starts for Phreeze_70:
(Start: 55 @51738 has 187 MA's), (64, 51765), (69, 51777), (80, 51825), (81, 51840), (103, 52002), (113, 52038), (115, 52056),

Gene: PhrodoBaggins_57 Start: 48737, Stop: 48369, Start Num: 53
Candidate Starts for PhrodoBaggins_57:
(13, 48941), (14, 48896), (17, 48866), (Start: 52 @48740 has 159 MA's), (Start: 53 @48737 has 121 MA's), (67, 48698), (84, 48617), (104, 48455), (105, 48452), (114, 48401),

Gene: Phunky_55 Start: 48336, Stop: 47965, Start Num: 52
Candidate Starts for Phunky_55:
(13, 48537), (14, 48492), (17, 48462), (31, 48375), (Start: 52 @48336 has 159 MA's), (Start: 53 @48333 has 121 MA's), (84, 48213), (104, 48051), (105, 48048), (114, 47997),

Gene: Phusco_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Phusco_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Pier_28 Start: 8857, Stop: 9213, Start Num: 55
Candidate Starts for Pier_28:
(Start: 55 @8857 has 187 MA's), (85, 8971), (98, 9064), (114, 9160),

Gene: Piglet_0056 Start: 48852, Stop: 48481, Start Num: 52
Candidate Starts for Piglet_0056:
(13, 49053), (14, 49008), (17, 48978), (Start: 52 @48852 has 159 MA's), (Start: 53 @48849 has 121
MA's), (67, 48810), (84, 48729), (104, 48567), (105, 48564), (114, 48513),

Gene: PinheadLarry_57 Start: 48874, Stop: 48506, Start Num: 53
Candidate Starts for PinheadLarry_57:
(13, 49078), (14, 49033), (17, 49003), (Start: 52 @48877 has 159 MA's), (Start: 53 @48874 has 121
MA's), (67, 48835), (84, 48754), (104, 48592), (105, 48589), (114, 48538),

Gene: Pinkcreek_18 Start: 6561, Stop: 6917, Start Num: 55
Candidate Starts for Pinkcreek_18:
(Start: 55 @6561 has 187 MA's), (98, 6768), (114, 6864),

Gene: Pinkman_55 Start: 48210, Stop: 47839, Start Num: 52
Candidate Starts for Pinkman_55:
(5, 48570), (13, 48411), (14, 48366), (17, 48336), (Start: 52 @48210 has 159 MA's), (Start: 53 @48207
has 121 MA's), (67, 48168), (73, 48150), (82, 48096), (84, 48087), (104, 47925), (105, 47922), (114,
47871),

Gene: Pio_29 Start: 9548, Stop: 9904, Start Num: 55
Candidate Starts for Pio_29:
(Start: 55 @9548 has 187 MA's), (85, 9662), (98, 9755), (114, 9851),

Gene: Pipsqueak_55 Start: 48365, Stop: 47994, Start Num: 52
Candidate Starts for Pipsqueak_55:
(13, 48566), (14, 48521), (17, 48491), (Start: 52 @48365 has 159 MA's), (Start: 53 @48362 has 121
MA's), (67, 48323), (84, 48242), (104, 48080), (105, 48077), (114, 48026),

Gene: Pipsqueaks_42 Start: 30647, Stop: 31045, Start Num: 36
Candidate Starts for Pipsqueaks_42:
(Start: 36 @30647 has 27 MA's), (Start: 62 @30698 has 4 MA's), (67, 30713), (98, 30896), (100,
30902), (106, 30953), (112, 30974), (113, 30977), (114, 30992), (119, 31016), (124, 31031), (126,
31034),

Gene: Piro94_36 Start: 27692, Stop: 28087, Start Num: 50
Candidate Starts for Piro94_36:
(Start: 50 @27692 has 49 MA's), (102, 27950), (104, 27980), (113, 28016),

Gene: Pivoine_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for Pivoine_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Pixie_74 Start: 49525, Stop: 49920, Start Num: 34
Candidate Starts for Pixie_74:
(Start: 34 @49525 has 8 MA's), (Start: 55 @49561 has 187 MA's), (68, 49597), (96, 49744), (98,
49759), (102, 49795), (123, 49912),

Gene: Placalicious_56 Start: 48864, Stop: 48496, Start Num: 53
Candidate Starts for Placalicious_56:
(13, 49068), (14, 49023), (17, 48993), (Start: 52 @48867 has 159 MA's), (Start: 53 @48864 has 121
MA's), (67, 48825), (84, 48744), (104, 48582), (105, 48579), (114, 48528),

Gene: Plata_56 Start: 48363, Stop: 47992, Start Num: 52
Candidate Starts for Plata_56:
(13, 48564), (14, 48519), (17, 48489), (Start: 52 @48363 has 159 MA's), (Start: 53 @48360 has 121
MA's), (67, 48321), (84, 48240), (104, 48078), (105, 48075), (114, 48024),

Gene: Pleione_28 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Pleione_28:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Plmatters_55 Start: 48339, Stop: 47968, Start Num: 52
Candidate Starts for Plmatters_55:
(5, 48699), (13, 48540), (14, 48495), (17, 48465), (Start: 52 @48339 has 159 MA's), (Start: 53 @48336
has 121 MA's), (67, 48297), (82, 48225), (104, 48054), (105, 48051), (114, 48000),

Gene: Podrick_54 Start: 47673, Stop: 47305, Start Num: 53
Candidate Starts for Podrick_54:
(13, 47877), (14, 47832), (17, 47802), (Start: 52 @47676 has 159 MA's), (Start: 53 @47673 has 121
MA's), (67, 47634), (82, 47562), (104, 47391), (105, 47388), (114, 47337),

Gene: Pops_55 Start: 48324, Stop: 47953, Start Num: 52
Candidate Starts for Pops_55:
(8, 48666), (13, 48525), (14, 48480), (17, 48450), (Start: 52 @48324 has 159 MA's), (Start: 53 @48321
has 121 MA's), (67, 48282), (73, 48264), (82, 48210), (84, 48201), (104, 48039), (105, 48036), (114,
47985),

Gene: Poster_48 Start: 47152, Stop: 46754, Start Num: 44
Candidate Starts for Poster_48:
(Start: 44 @47152 has 17 MA's), (66, 47104), (67, 47101), (76, 47080), (109, 46834), (116, 46798),

Gene: Potter_55 Start: 48373, Stop: 48002, Start Num: 52
Candidate Starts for Potter_55:
(13, 48574), (14, 48529), (17, 48499), (Start: 52 @48373 has 159 MA's), (Start: 53 @48370 has 121
MA's), (67, 48331), (82, 48259), (104, 48088), (105, 48085), (114, 48034),

Gene: Power_35 Start: 27298, Stop: 27681, Start Num: 50
Candidate Starts for Power_35:
(Start: 50 @27298 has 49 MA's), (80, 27382), (96, 27490), (102, 27541), (104, 27571), (122, 27658),

Gene: Prager_56 Start: 42742, Stop: 43122, Start Num: 46
Candidate Starts for Prager_56:
(Start: 46 @42742 has 21 MA's), (63, 42775), (64, 42778), (65, 42781), (79, 42835), (80, 42838), (97,
42958), (114, 43069), (115, 43072),

Gene: Prickles_57 Start: 48631, Stop: 48260, Start Num: 52
Candidate Starts for Prickles_57:
(13, 48832), (14, 48787), (17, 48757), (31, 48670), (Start: 52 @48631 has 159 MA's), (Start: 53
@48628 has 121 MA's), (67, 48589), (73, 48571), (84, 48508), (104, 48346), (105, 48343), (114,
48292),

Gene: Primadonna_21 Start: 7806, Stop: 8162, Start Num: 55
Candidate Starts for Primadonna_21:
(Start: 55 @7806 has 187 MA's), (98, 8013), (114, 8109),

Gene: Prince_49 Start: 48357, Stop: 47959, Start Num: 44
Candidate Starts for Prince_49:
(5, 48690), (Start: 44 @48357 has 17 MA's), (66, 48309), (67, 48306), (76, 48285), (105, 48060), (109, 48039), (116, 48003),

Gene: ProfessorX_55 Start: 48328, Stop: 47960, Start Num: 53
Candidate Starts for ProfessorX_55:
(13, 48532), (14, 48487), (17, 48457), (Start: 52 @48331 has 159 MA's), (Start: 53 @48328 has 121 MA's), (67, 48289), (84, 48208), (104, 48046), (105, 48043), (114, 47992),

Gene: Puhltonio_56 Start: 48647, Stop: 48276, Start Num: 52
Candidate Starts for Puhltonio_56:
(13, 48848), (14, 48803), (17, 48773), (Start: 52 @48647 has 159 MA's), (Start: 53 @48644 has 121 MA's), (67, 48605), (82, 48533), (104, 48362), (105, 48359), (114, 48308),

Gene: Puissant_72 Start: 51841, Stop: 52215, Start Num: 55
Candidate Starts for Puissant_72:
(Start: 55 @51841 has 187 MA's), (64, 51868), (80, 51928), (113, 52144),

Gene: Pupusa_33 Start: 10807, Stop: 11163, Start Num: 55
Candidate Starts for Pupusa_33:
(Start: 55 @10807 has 187 MA's), (98, 11014), (114, 11110),

Gene: PurduePete_25 Start: 8416, Stop: 8772, Start Num: 55
Candidate Starts for PurduePete_25:
(Start: 55 @8416 has 187 MA's), (85, 8530), (98, 8623), (114, 8719),

Gene: QBert_24 Start: 8866, Stop: 9222, Start Num: 55
Candidate Starts for QBert_24:
(Start: 55 @8866 has 187 MA's), (98, 9073), (114, 9169),

Gene: Quasimodo_26 Start: 9114, Stop: 9470, Start Num: 55
Candidate Starts for Quasimodo_26:
(Start: 55 @9114 has 187 MA's), (85, 9228), (98, 9321), (114, 9417),

Gene: QueenB2_36 Start: 27362, Stop: 27739, Start Num: 50
Candidate Starts for QueenB2_36:
(Start: 50 @27362 has 49 MA's), (102, 27602), (104, 27632), (106, 27638), (113, 27668),

Gene: QueenBeane_56 Start: 48637, Stop: 48266, Start Num: 52
Candidate Starts for QueenBeane_56:
(13, 48838), (14, 48793), (17, 48763), (Start: 52 @48637 has 159 MA's), (Start: 53 @48634 has 121 MA's), (67, 48595), (82, 48523), (104, 48352), (105, 48349), (114, 48298),

Gene: QueenBeesly_36 Start: 27245, Stop: 27628, Start Num: 50
Candidate Starts for QueenBeesly_36:
(Start: 50 @27245 has 49 MA's), (80, 27329), (96, 27437), (102, 27488), (104, 27518), (122, 27605),

Gene: Quisquiliae_57 Start: 48637, Stop: 48269, Start Num: 53
Candidate Starts for Quisquiliae_57:
(13, 48841), (14, 48796), (17, 48766), (Start: 52 @48640 has 159 MA's), (Start: 53 @48637 has 121 MA's), (67, 48598), (84, 48517), (104, 48355), (105, 48352), (114, 48301),

Gene: Rabinovish_25 Start: 9154, Stop: 9510, Start Num: 55
Candidate Starts for Rabinovish_25:
(Start: 55 @9154 has 187 MA's), (98, 9361), (114, 9457),

Gene: Rachaly_39 Start: 28574, Stop: 28945, Start Num: 62
Candidate Starts for Rachaly_39:
(Start: 62 @28574 has 4 MA's), (87, 28691), (98, 28766), (102, 28802), (104, 28832), (113, 28868), (119, 28907), (122, 28919), (126, 28925),

Gene: Rahel_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Rahel_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: RawrgerThat_50 Start: 48212, Stop: 47814, Start Num: 44
Candidate Starts for RawrgerThat_50:
(Start: 44 @48212 has 17 MA's), (66, 48164), (67, 48161), (76, 48140), (109, 47894), (116, 47858),

Gene: Reccee_54 Start: 48685, Stop: 48290, Start Num: 53
Candidate Starts for Reccee_54:
(4, 49081), (6, 49036), (7, 49033), (Start: 43 @48703 has 34 MA's), (Start: 53 @48685 has 121 MA's), (72, 48631), (116, 48334),

Gene: RedMaple_57 Start: 48873, Stop: 48502, Start Num: 52
Candidate Starts for RedMaple_57:
(13, 49074), (14, 49029), (17, 48999), (31, 48912), (Start: 52 @48873 has 159 MA's), (Start: 53 @48870 has 121 MA's), (67, 48831), (82, 48759), (104, 48588), (105, 48585), (114, 48534),

Gene: RedRaider89_57 Start: 48564, Stop: 48193, Start Num: 52
Candidate Starts for RedRaider89_57:
(13, 48765), (14, 48720), (17, 48690), (31, 48603), (Start: 52 @48564 has 159 MA's), (Start: 53 @48561 has 121 MA's), (67, 48522), (84, 48441), (104, 48279), (105, 48276), (114, 48225),

Gene: Renkei_48 Start: 47168, Stop: 46770, Start Num: 44
Candidate Starts for Renkei_48:
(Start: 44 @47168 has 17 MA's), (66, 47120), (67, 47117), (76, 47096), (109, 46850), (116, 46814),

Gene: Reprobate_53 Start: 48651, Stop: 48235, Start Num: 43
Candidate Starts for Reprobate_53:
(4, 49029), (6, 48984), (7, 48981), (Start: 43 @48651 has 34 MA's), (66, 48597), (105, 48336),

Gene: Retro23_37 Start: 27627, Stop: 28010, Start Num: 50
Candidate Starts for Retro23_37:
(Start: 50 @27627 has 49 MA's), (80, 27711), (96, 27819), (102, 27870), (104, 27900), (113, 27936), (122, 27987),

Gene: Rich_54 Start: 50085, Stop: 49669, Start Num: 43
Candidate Starts for Rich_54:

(4, 50463), (6, 50418), (7, 50415), (10, 50364), (Start: 43 @50085 has 34 MA's), (Start: 53 @50067 has 121 MA's), (72, 50013), (116, 49713), (119, 49680),

Gene: Ricotta_55 Start: 48327, Stop: 47959, Start Num: 53
Candidate Starts for Ricotta_55:
(13, 48531), (14, 48486), (17, 48456), (Start: 52 @48330 has 159 MA's), (Start: 53 @48327 has 121 MA's), (67, 48288), (84, 48207), (104, 48045), (105, 48042), (114, 47991),

Gene: Riggan_57 Start: 48630, Stop: 48259, Start Num: 52
Candidate Starts for Riggan_57:
(13, 48831), (14, 48786), (17, 48756), (Start: 52 @48630 has 159 MA's), (Start: 53 @48627 has 121 MA's), (67, 48588), (82, 48516), (104, 48345), (105, 48342), (114, 48291),

Gene: Rita130_53 Start: 48505, Stop: 48110, Start Num: 53
Candidate Starts for Rita130_53:
(4, 48901), (6, 48856), (7, 48853), (Start: 43 @48523 has 34 MA's), (Start: 53 @48505 has 121 MA's), (72, 48451), (116, 48154),

Gene: Riverton_54 Start: 48358, Stop: 47987, Start Num: 52
Candidate Starts for Riverton_54:
(13, 48559), (14, 48514), (17, 48484), (31, 48397), (Start: 52 @48358 has 159 MA's), (Start: 53 @48355 has 121 MA's), (67, 48316), (84, 48235), (104, 48073), (105, 48070), (114, 48019),

Gene: Rizal_24 Start: 7616, Stop: 7972, Start Num: 55
Candidate Starts for Rizal_24:
(Start: 55 @7616 has 187 MA's), (98, 7823), (114, 7919),

Gene: RoMag_21 Start: 7951, Stop: 8307, Start Num: 55
Candidate Starts for RoMag_21:
(Start: 55 @7951 has 187 MA's), (98, 8158), (114, 8254),

Gene: Robyn_55 Start: 48276, Stop: 47905, Start Num: 52
Candidate Starts for Robyn_55:
(13, 48477), (14, 48432), (17, 48402), (31, 48315), (Start: 52 @48276 has 159 MA's), (Start: 53 @48273 has 121 MA's), (67, 48234), (82, 48162), (84, 48153), (104, 47991), (105, 47988), (114, 47937),

Gene: Rocha_24 Start: 7647, Stop: 8003, Start Num: 55
Candidate Starts for Rocha_24:
(Start: 55 @7647 has 187 MA's), (85, 7761), (98, 7854), (114, 7950),

Gene: Roliet_54 Start: 47673, Stop: 47302, Start Num: 52
Candidate Starts for Roliet_54:
(13, 47874), (14, 47829), (17, 47799), (31, 47712), (Start: 52 @47673 has 159 MA's), (Start: 53 @47670 has 121 MA's), (67, 47631), (84, 47550), (104, 47388), (105, 47385), (114, 47334),

Gene: RonRayGun_40 Start: 31491, Stop: 31892, Start Num: 39
Candidate Starts for RonRayGun_40:
(11, 31248), (Start: 39 @31491 has 5 MA's), (Start: 47 @31509 has 1 MA's), (87, 31665), (94, 31716), (98, 31740), (114, 31860), (115, 31863),

Gene: Ronan_21 Start: 6262, Stop: 6618, Start Num: 55
Candidate Starts for Ronan_21:

(Start: 55 @6262 has 187 MA's), (98, 6469), (114, 6565),

Gene: Roots515_26 Start: 8698, Stop: 9054, Start Num: 55
Candidate Starts for Roots515_26:
(Start: 55 @8698 has 187 MA's), (98, 8905), (114, 9001),

Gene: Rope_56 Start: 42577, Stop: 42966, Start Num: 42
Candidate Starts for Rope_56:
(Start: 25 @42535 has 1 MA's), (Start: 36 @42565 has 27 MA's), (Start: 42 @42577 has 18 MA's), (49, 42589), (57, 42604), (59, 42610), (77, 42661), (93, 42775), (98, 42805), (112, 42895), (113, 42898), (114, 42913),

Gene: Roscoe_56 Start: 48576, Stop: 48205, Start Num: 52
Candidate Starts for Roscoe_56:
(13, 48777), (14, 48732), (17, 48702), (31, 48615), (Start: 52 @48576 has 159 MA's), (Start: 53 @48573 has 121 MA's), (67, 48534), (82, 48462), (84, 48453), (104, 48291), (105, 48288), (114, 48237),

Gene: Roy17_55 Start: 48030, Stop: 47659, Start Num: 52
Candidate Starts for Roy17_55:
(13, 48231), (14, 48186), (17, 48156), (31, 48069), (Start: 52 @48030 has 159 MA's), (Start: 53 @48027 has 121 MA's), (84, 47907), (104, 47745), (105, 47742), (114, 47691),

Gene: Ryadel_79 Start: 48372, Stop: 47995, Start Num: 43
Candidate Starts for Ryadel_79:
(Start: 43 @48372 has 34 MA's), (69, 48312), (73, 48300), (83, 48237), (98, 48144), (100, 48138), (106, 48093), (114, 48048), (124, 48009), (126, 48006),

Gene: SDcharge11_55 Start: 47644, Stop: 47273, Start Num: 52
Candidate Starts for SDcharge11_55:
(13, 47845), (14, 47800), (17, 47770), (31, 47683), (Start: 52 @47644 has 159 MA's), (Start: 53 @47641 has 121 MA's), (67, 47602), (84, 47521), (104, 47359), (105, 47356), (114, 47305),

Gene: SVoro_25 Start: 8693, Stop: 9049, Start Num: 55
Candidate Starts for SVoro_25:
(Start: 55 @8693 has 187 MA's), (98, 8900), (114, 8996),

Gene: Salacia_28 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for Salacia_28:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: SallyH_57 Start: 48314, Stop: 47946, Start Num: 53
Candidate Starts for SallyH_57:
(13, 48518), (14, 48473), (17, 48443), (Start: 52 @48317 has 159 MA's), (Start: 53 @48314 has 121 MA's), (67, 48275), (84, 48194), (104, 48032), (105, 48029), (114, 47978),

Gene: Samaymay_56 Start: 48637, Stop: 48266, Start Num: 52
Candidate Starts for Samaymay_56:
(13, 48838), (14, 48793), (17, 48763), (Start: 52 @48637 has 159 MA's), (Start: 53 @48634 has 121 MA's), (67, 48595), (82, 48523), (104, 48352), (105, 48349), (114, 48298),

Gene: SassyCat97_55 Start: 48364, Stop: 47993, Start Num: 52
Candidate Starts for SassyCat97_55:

(13, 48565), (14, 48520), (17, 48490), (31, 48403), (Start: 52 @48364 has 159 MA's), (Start: 53 @48361 has 121 MA's), (67, 48322), (82, 48250), (104, 48079), (105, 48076), (114, 48025),

Gene: Sauce_27 Start: 8829, Stop: 9185, Start Num: 55
Candidate Starts for Sauce_27:
(Start: 55 @8829 has 187 MA's), (98, 9036), (114, 9132),

Gene: Sbash_50 Start: 38735, Stop: 39223, Start Num: 18
Candidate Starts for Sbash_50:
(Start: 18 @38735 has 1 MA's), (27, 38795), (Start: 55 @38855 has 187 MA's), (67, 38891), (98, 39074), (103, 39119), (106, 39131), (112, 39152), (113, 39155), (114, 39170), (122, 39206), (124, 39209), (126, 39212),

Gene: Schadenfreude_55 Start: 48120, Stop: 47752, Start Num: 53
Candidate Starts for Schadenfreude_55:
(13, 48324), (14, 48279), (17, 48249), (31, 48162), (Start: 52 @48123 has 159 MA's), (Start: 53 @48120 has 121 MA's), (67, 48081), (82, 48009), (84, 48000), (104, 47838), (105, 47835), (114, 47784),

Gene: Schnauzer_43 Start: 30670, Stop: 31068, Start Num: 36
Candidate Starts for Schnauzer_43:
(Start: 36 @30670 has 27 MA's), (Start: 62 @30721 has 4 MA's), (67, 30736), (98, 30919), (100, 30925), (106, 30976), (112, 30997), (113, 31000), (114, 31015), (119, 31039), (124, 31054), (126, 31057),

Gene: SchoolBus_75 Start: 47520, Stop: 47143, Start Num: 43
Candidate Starts for SchoolBus_75:
(Start: 43 @47520 has 34 MA's), (69, 47460), (73, 47448), (83, 47385), (98, 47292), (100, 47286), (106, 47241), (114, 47196), (124, 47157), (126, 47154),

Gene: Schueller_56 Start: 48350, Stop: 47982, Start Num: 53
Candidate Starts for Schueller_56:
(5, 48713), (13, 48554), (14, 48509), (17, 48479), (Start: 52 @48353 has 159 MA's), (Start: 53 @48350 has 121 MA's), (67, 48311), (73, 48293), (82, 48239), (104, 48068), (105, 48065), (114, 48014),

Gene: Schuy_77 Start: 47372, Stop: 46995, Start Num: 43
Candidate Starts for Schuy_77:
(Start: 43 @47372 has 34 MA's), (69, 47312), (73, 47300), (83, 47237), (98, 47144), (100, 47138), (106, 47093), (114, 47048), (124, 47009), (126, 47006),

Gene: Scitech_39 Start: 28686, Stop: 29084, Start Num: 36
Candidate Starts for Scitech_39:
(Start: 36 @28686 has 27 MA's), (Start: 62 @28737 has 4 MA's), (67, 28752), (98, 28935), (100, 28941), (106, 28992), (112, 29013), (113, 29016), (114, 29031), (119, 29055), (124, 29070), (126, 29073),

Gene: Scoot17C_57 Start: 48303, Stop: 47935, Start Num: 53
Candidate Starts for Scoot17C_57:
(13, 48507), (14, 48462), (17, 48432), (Start: 52 @48306 has 159 MA's), (Start: 53 @48303 has 121 MA's), (67, 48264), (84, 48183), (104, 48021), (105, 48018), (114, 47967),

Gene: ScottMcG_26 Start: 9009, Stop: 9365, Start Num: 55
Candidate Starts for ScottMcG_26:

(Start: 55 @9009 has 187 MA's), (98, 9216), (114, 9312),

Gene: Scrick_57 Start: 48378, Stop: 48007, Start Num: 52
Candidate Starts for Scrick_57:
(13, 48579), (14, 48534), (17, 48504), (Start: 52 @48378 has 159 MA's), (Start: 53 @48375 has 121 MA's), (67, 48336), (84, 48255), (104, 48093), (105, 48090), (114, 48039),

Gene: Sebata_26 Start: 9052, Stop: 9408, Start Num: 55
Candidate Starts for Sebata_26:
(Start: 55 @9052 has 187 MA's), (98, 9259), (114, 9355),

Gene: Selr12_56 Start: 48343, Stop: 47975, Start Num: 53
Candidate Starts for Selr12_56:
(13, 48547), (14, 48502), (17, 48472), (Start: 52 @48346 has 159 MA's), (Start: 53 @48343 has 121 MA's), (67, 48304), (84, 48223), (104, 48061), (105, 48058), (114, 48007),

Gene: SemperFi_37 Start: 27513, Stop: 27896, Start Num: 50
Candidate Starts for SemperFi_37:
(Start: 50 @27513 has 49 MA's), (80, 27597), (96, 27705), (102, 27756), (104, 27786), (122, 27873),

Gene: Serendipitous_53 Start: 48341, Stop: 47952, Start Num: 53
Candidate Starts for Serendipitous_53:
(Start: 53 @48341 has 121 MA's), (98, 48122), (105, 48053), (116, 47996), (117, 47984),

Gene: Serendipity_56 Start: 48658, Stop: 48290, Start Num: 53
Candidate Starts for Serendipity_56:
(13, 48862), (14, 48817), (17, 48787), (Start: 52 @48661 has 159 MA's), (Start: 53 @48658 has 121 MA's), (67, 48619), (82, 48547), (104, 48376), (105, 48373), (114, 48322),

Gene: Serpentine_0056 Start: 48744, Stop: 48373, Start Num: 52
Candidate Starts for Serpentine_0056:
(13, 48945), (14, 48900), (17, 48870), (Start: 52 @48744 has 159 MA's), (Start: 53 @48741 has 121 MA's), (67, 48702), (84, 48621), (104, 48459), (105, 48456), (114, 48405),

Gene: Settecandela_28 Start: 15030, Stop: 15431, Start Num: 36
Candidate Starts for Settecandela_28:
(Start: 36 @15030 has 27 MA's), (61, 15078), (72, 15108), (93, 15240), (106, 15339), (113, 15363), (114, 15378), (124, 15417),

Gene: Shadow1_78 Start: 49985, Stop: 50368, Start Num: 42
Candidate Starts for Shadow1_78:
(Start: 42 @49985 has 18 MA's), (Start: 55 @50006 has 187 MA's), (73, 50060), (87, 50132), (92, 50171), (98, 50207), (102, 50243), (113, 50309),

Gene: ShadowBud_57 Start: 48637, Stop: 48266, Start Num: 52
Candidate Starts for ShadowBud_57:
(13, 48838), (14, 48793), (17, 48763), (Start: 52 @48637 has 159 MA's), (Start: 53 @48634 has 121 MA's), (67, 48595), (84, 48514), (104, 48352), (105, 48349), (114, 48298),

Gene: Shaqnato_22 Start: 7276, Stop: 7632, Start Num: 55
Candidate Starts for Shaqnato_22:
(Start: 55 @7276 has 187 MA's), (98, 7483), (114, 7579),

Gene: ShedlockHolmes_77 Start: 50038, Stop: 50421, Start Num: 34
Candidate Starts for ShedlockHolmes_77:
(Start: 34 @50038 has 8 MA's), (Start: 55 @50074 has 187 MA's), (68, 50110), (81, 50164), (90, 50215), (95, 50251), (96, 50257), (98, 50272), (113, 50374), (114, 50389),

Gene: Sheila_54 Start: 47702, Stop: 47334, Start Num: 53
Candidate Starts for Sheila_54:
(13, 47906), (14, 47861), (17, 47831), (31, 47744), (Start: 52 @47705 has 159 MA's), (Start: 53 @47702 has 121 MA's), (67, 47663), (84, 47582), (104, 47420), (105, 47417), (114, 47366),

Gene: Shelob_28 Start: 9584, Stop: 9940, Start Num: 55
Candidate Starts for Shelob_28:
(Start: 55 @9584 has 187 MA's), (98, 9791), (114, 9887),

Gene: Shenyu_54 Start: 48876, Stop: 48463, Start Num: 43
Candidate Starts for Shenyu_54:
(Start: 43 @48876 has 34 MA's), (72, 48804), (107, 48558), (108, 48555), (113, 48528),

Gene: ShiaLabeouf_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for ShiaLabeouf_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Shida_75 Start: 47211, Stop: 46834, Start Num: 43
Candidate Starts for Shida_75:
(Start: 43 @47211 has 34 MA's), (69, 47151), (73, 47139), (83, 47076), (98, 46983), (100, 46977), (106, 46932), (114, 46887), (124, 46848), (126, 46845),

Gene: Shifa_23 Start: 8335, Stop: 8691, Start Num: 55
Candidate Starts for Shifa_23:
(Start: 55 @8335 has 187 MA's), (98, 8542), (114, 8638),

Gene: Shnickers_26 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Shnickers_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Shrimp_26 Start: 8703, Stop: 9059, Start Num: 55
Candidate Starts for Shrimp_26:
(Start: 55 @8703 has 187 MA's), (98, 8910), (114, 9006),

Gene: Shweta_40 Start: 29977, Stop: 30375, Start Num: 36
Candidate Starts for Shweta_40:
(Start: 36 @29977 has 27 MA's), (Start: 62 @30028 has 4 MA's), (67, 30043), (98, 30226), (100, 30232), (103, 30271), (106, 30283), (112, 30304), (113, 30307), (114, 30322), (124, 30361), (126, 30364),

Gene: Sigman_57 Start: 48294, Stop: 47926, Start Num: 53
Candidate Starts for Sigman_57:
(13, 48498), (14, 48453), (17, 48423), (Start: 52 @48297 has 159 MA's), (Start: 53 @48294 has 121 MA's), (67, 48255), (84, 48174), (104, 48012), (105, 48009), (114, 47958),

Gene: Silvafighter_43 Start: 30643, Stop: 31041, Start Num: 36
Candidate Starts for Silvafighter_43:

(Start: 36 @30643 has 27 MA's), (Start: 38 @30646 has 2 MA's), (Start: 62 @30694 has 4 MA's), (67, 30709), (98, 30892), (100, 30898), (106, 30949), (112, 30970), (113, 30973), (114, 30988), (119, 31012), (124, 31027), (126, 31030),

Gene: SilverBell_55 Start: 48382, Stop: 48011, Start Num: 52
Candidate Starts for SilverBell_55:
(13, 48583), (14, 48538), (17, 48508), (Start: 52 @48382 has 159 MA's), (Start: 53 @48379 has 121 MA's), (67, 48340), (84, 48259), (104, 48097), (105, 48094), (114, 48043),

Gene: SilverDipper_27 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for SilverDipper_27:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Simielle_55 Start: 48297, Stop: 47929, Start Num: 53
Candidate Starts for Simielle_55:
(5, 48660), (13, 48501), (14, 48456), (17, 48426), (Start: 52 @48300 has 159 MA's), (Start: 53 @48297 has 121 MA's), (67, 48258), (84, 48177), (104, 48015), (105, 48012), (114, 47961),

Gene: SirBeauregard_57 Start: 48867, Stop: 48496, Start Num: 52
Candidate Starts for SirBeauregard_57:
(13, 49068), (14, 49023), (17, 48993), (Start: 52 @48867 has 159 MA's), (Start: 53 @48864 has 121 MA's), (67, 48825), (84, 48744), (104, 48582), (105, 48579), (114, 48528),

Gene: SirHarley_57 Start: 42899, Stop: 43279, Start Num: 46
Candidate Starts for SirHarley_57:
(Start: 46 @42899 has 21 MA's), (63, 42932), (64, 42935), (65, 42938), (79, 42992), (80, 42995), (97, 43115), (114, 43226), (115, 43229),

Gene: SirJeffery_53 Start: 48507, Stop: 48112, Start Num: 53
Candidate Starts for SirJeffery_53:
(4, 48903), (6, 48858), (7, 48855), (Start: 43 @48525 has 34 MA's), (Start: 53 @48507 has 121 MA's), (72, 48453), (116, 48156), (119, 48123),

Gene: SirPhilip_73 Start: 50211, Stop: 50594, Start Num: 42
Candidate Starts for SirPhilip_73:
(Start: 42 @50211 has 18 MA's), (Start: 45 @50217 has 1 MA's), (68, 50271), (73, 50286), (82, 50328), (87, 50358), (92, 50397), (98, 50433), (107, 50508), (113, 50535),

Gene: Skippy_57 Start: 48594, Stop: 48226, Start Num: 53
Candidate Starts for Skippy_57:
(13, 48798), (14, 48753), (17, 48723), (Start: 52 @48597 has 159 MA's), (Start: 53 @48594 has 121 MA's), (67, 48555), (84, 48474), (104, 48312), (105, 48309), (114, 48258),

Gene: Sknot_36 Start: 27377, Stop: 27772, Start Num: 50
Candidate Starts for Sknot_36:
(Start: 50 @27377 has 49 MA's), (102, 27635), (104, 27665), (113, 27701),

Gene: Slatt_57 Start: 48659, Stop: 48291, Start Num: 53
Candidate Starts for Slatt_57:
(13, 48863), (14, 48818), (17, 48788), (Start: 52 @48662 has 159 MA's), (Start: 53 @48659 has 121 MA's), (67, 48620), (84, 48539), (104, 48377), (105, 48374), (114, 48323),

Gene: SmallFry_26 Start: 8150, Stop: 8506, Start Num: 55

Candidate Starts for SmallFry_26:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Smeagan_38 Start: 27763, Stop: 28161, Start Num: 50
Candidate Starts for Smeagan_38:
(Start: 50 @27763 has 49 MA's), (69, 27811), (104, 28054), (106, 28060), (113, 28090),

Gene: Smooch_78 Start: 49262, Stop: 48885, Start Num: 43
Candidate Starts for Smooch_78:
(Start: 26 @49310 has 4 MA's), (Start: 43 @49262 has 34 MA's), (69, 49202), (73, 49190), (83, 49127), (98, 49034), (100, 49028), (106, 48983), (114, 48938), (124, 48899), (126, 48896),

Gene: Smurph_42 Start: 30670, Stop: 31068, Start Num: 36
Candidate Starts for Smurph_42:
(Start: 36 @30670 has 27 MA's), (Start: 62 @30721 has 4 MA's), (67, 30736), (98, 30919), (100, 30925), (106, 30976), (112, 30997), (113, 31000), (114, 31015), (119, 31039), (124, 31054), (126, 31057),

Gene: SnapTap_36 Start: 27324, Stop: 27707, Start Num: 50
Candidate Starts for SnapTap_36:
(Start: 50 @27324 has 49 MA's), (80, 27408), (96, 27516), (102, 27567), (104, 27597), (122, 27684),

Gene: Snekmaggedon_40 Start: 29847, Stop: 30245, Start Num: 36
Candidate Starts for Snekmaggedon_40:
(Start: 36 @29847 has 27 MA's), (Start: 62 @29898 has 4 MA's), (67, 29913), (98, 30096), (100, 30102), (106, 30153), (112, 30174), (113, 30177), (114, 30192), (119, 30216), (124, 30231), (126, 30234),

Gene: Soile_57 Start: 48882, Stop: 48514, Start Num: 53
Candidate Starts for Soile_57:
(5, 49245), (13, 49086), (14, 49041), (17, 49011), (Start: 52 @48885 has 159 MA's), (Start: 53 @48882 has 121 MA's), (67, 48843), (84, 48762), (104, 48600), (105, 48597), (114, 48546),

Gene: Solosis_55 Start: 48358, Stop: 47987, Start Num: 52
Candidate Starts for Solosis_55:
(13, 48559), (14, 48514), (17, 48484), (31, 48397), (Start: 52 @48358 has 159 MA's), (Start: 53 @48355 has 121 MA's), (67, 48316), (82, 48244), (104, 48073), (105, 48070), (114, 48019),

Gene: Sophia_55 Start: 48352, Stop: 47981, Start Num: 52
Candidate Starts for Sophia_55:
(13, 48553), (14, 48508), (17, 48478), (Start: 52 @48352 has 159 MA's), (Start: 53 @48349 has 121 MA's), (67, 48310), (82, 48238), (104, 48067), (105, 48064), (114, 48013),

Gene: Soto_54 Start: 47677, Stop: 47306, Start Num: 52
Candidate Starts for Soto_54:
(13, 47878), (14, 47833), (17, 47803), (31, 47716), (Start: 52 @47677 has 159 MA's), (Start: 53 @47674 has 121 MA's), (67, 47635), (84, 47554), (104, 47392), (105, 47389), (114, 47338),

Gene: Spartan300_55 Start: 48336, Stop: 47965, Start Num: 52
Candidate Starts for Spartan300_55:
(8, 48681), (13, 48537), (14, 48492), (17, 48462), (31, 48375), (Start: 52 @48336 has 159 MA's), (Start: 53 @48333 has 121 MA's), (84, 48213), (104, 48051), (105, 48048), (114, 47997),

Gene: Spec_24 Start: 8156, Stop: 8512, Start Num: 55
Candidate Starts for Spec_24:
(Start: 55 @8156 has 187 MA's), (85, 8270), (98, 8363), (114, 8459),

Gene: Specks_31 Start: 9988, Stop: 10344, Start Num: 55
Candidate Starts for Specks_31:
(Start: 55 @9988 has 187 MA's), (85, 10102), (98, 10195), (114, 10291),

Gene: SpongeBob_40 Start: 29847, Stop: 30245, Start Num: 36
Candidate Starts for SpongeBob_40:
(Start: 36 @29847 has 27 MA's), (Start: 62 @29898 has 4 MA's), (67, 29913), (98, 30096), (100, 30102), (106, 30153), (112, 30174), (113, 30177), (114, 30192), (119, 30216), (124, 30231), (126, 30234),

Gene: Sprinklers_26 Start: 8191, Stop: 8547, Start Num: 55
Candidate Starts for Sprinklers_26:
(Start: 55 @8191 has 187 MA's), (98, 8398), (114, 8494),

Gene: Spud_28 Start: 9548, Stop: 9904, Start Num: 55
Candidate Starts for Spud_28:
(Start: 55 @9548 has 187 MA's), (85, 9662), (98, 9755), (114, 9851),

Gene: Squid_56 Start: 48364, Stop: 47993, Start Num: 52
Candidate Starts for Squid_56:
(13, 48565), (14, 48520), (17, 48490), (31, 48403), (Start: 52 @48364 has 159 MA's), (Start: 53 @48361 has 121 MA's), (67, 48322), (82, 48250), (104, 48079), (105, 48076), (114, 48025),

Gene: Squiggle_57 Start: 48369, Stop: 48001, Start Num: 53
Candidate Starts for Squiggle_57:
(13, 48573), (14, 48528), (17, 48498), (Start: 52 @48372 has 159 MA's), (Start: 53 @48369 has 121 MA's), (67, 48330), (84, 48249), (104, 48087), (105, 48084), (114, 48033),

Gene: SrishMeg2525_25 Start: 8416, Stop: 8772, Start Num: 55
Candidate Starts for SrishMeg2525_25:
(Start: 55 @8416 has 187 MA's), (85, 8530), (98, 8623), (114, 8719),

Gene: StephanieG_26 Start: 8882, Stop: 9238, Start Num: 55
Candidate Starts for StephanieG_26:
(Start: 55 @8882 has 187 MA's), (85, 8996), (98, 9089), (114, 9185),

Gene: Stinger_49 Start: 46888, Stop: 46490, Start Num: 44
Candidate Starts for Stinger_49:
(Start: 44 @46888 has 17 MA's), (66, 46840), (67, 46837), (76, 46816), (105, 46591), (109, 46570), (116, 46534),

Gene: StinkyVeggy_54 Start: 48662, Stop: 48249, Start Num: 43
Candidate Starts for StinkyVeggy_54:
(Start: 43 @48662 has 34 MA's), (101, 48389), (107, 48344), (108, 48341), (113, 48314),

Gene: Strobilo_39 Start: 31471, Stop: 31088, Start Num: 37
Candidate Starts for Strobilo_39:
(Start: 37 @31471 has 11 MA's), (81, 31348), (90, 31297), (98, 31240), (106, 31168), (114, 31123), (119, 31099),

Gene: Struggle_56 Start: 48201, Stop: 47830, Start Num: 52
Candidate Starts for Struggle_56:
(5, 48561), (13, 48402), (14, 48357), (17, 48327), (Start: 52 @48201 has 159 MA's), (Start: 53 @48198 has 121 MA's), (67, 48159), (73, 48141), (82, 48087), (104, 47916), (105, 47913), (114, 47862),

Gene: Stubby_24 Start: 7962, Stop: 8318, Start Num: 55
Candidate Starts for Stubby_24:
(Start: 55 @7962 has 187 MA's), (98, 8169), (114, 8265),

Gene: StubbySaigey_25 Start: 7342, Stop: 7698, Start Num: 55
Candidate Starts for StubbySaigey_25:
(Start: 55 @7342 has 187 MA's), (98, 7549), (114, 7645),

Gene: Stuck_56 Start: 40451, Stop: 40849, Start Num: 34
Candidate Starts for Stuck_56:
(19, 40394), (Start: 34 @40451 has 8 MA's), (Start: 55 @40481 has 187 MA's), (67, 40517), (98, 40700), (100, 40706), (103, 40745), (106, 40757), (112, 40778), (113, 40781), (114, 40796), (124, 40835), (126, 40838),

Gene: Substance289_23 Start: 7630, Stop: 7986, Start Num: 55
Candidate Starts for Substance289_23:
(Start: 55 @7630 has 187 MA's), (85, 7744), (98, 7837), (114, 7933),

Gene: Suffolk_54 Start: 47667, Stop: 47296, Start Num: 52
Candidate Starts for Suffolk_54:
(13, 47868), (14, 47823), (17, 47793), (31, 47706), (Start: 52 @47667 has 159 MA's), (Start: 53 @47664 has 121 MA's), (67, 47625), (84, 47544), (104, 47382), (105, 47379), (114, 47328),

Gene: Suigeneris_55 Start: 48805, Stop: 48392, Start Num: 43
Candidate Starts for Suigeneris_55:
(4, 49183), (6, 49138), (7, 49135), (Start: 43 @48805 has 34 MA's), (Start: 53 @48787 has 121 MA's), (72, 48733), (116, 48436), (119, 48403),

Gene: Sunflower1121_79 Start: 50131, Stop: 50514, Start Num: 42
Candidate Starts for Sunflower1121_79:
(Start: 42 @50131 has 18 MA's), (Start: 55 @50152 has 187 MA's), (73, 50206), (87, 50278), (92, 50317), (98, 50353), (102, 50389), (111, 50446), (113, 50455),

Gene: SuperheroCarly_57 Start: 42573, Stop: 42953, Start Num: 46
Candidate Starts for SuperheroCarly_57:
(Start: 46 @42573 has 21 MA's), (63, 42606), (64, 42609), (65, 42612), (79, 42666), (80, 42669), (97, 42789), (114, 42900), (115, 42903),

Gene: Surely_56 Start: 48654, Stop: 48283, Start Num: 52
Candidate Starts for Surely_56:
(13, 48855), (14, 48810), (17, 48780), (31, 48693), (Start: 52 @48654 has 159 MA's), (Start: 53 @48651 has 121 MA's), (67, 48612), (82, 48540), (104, 48369), (105, 48366), (114, 48315),

Gene: SweetiePie_36 Start: 27324, Stop: 27707, Start Num: 50
Candidate Starts for SweetiePie_36:
(Start: 50 @27324 has 49 MA's), (80, 27408), (96, 27516), (102, 27567), (104, 27597), (122, 27684),

Gene: Swiphy_57 Start: 48652, Stop: 48284, Start Num: 53
Candidate Starts for Swiphy_57:
(5, 49015), (13, 48856), (14, 48811), (17, 48781), (31, 48694), (Start: 52 @48655 has 159 MA's),
(Start: 53 @48652 has 121 MA's), (84, 48532), (104, 48370), (105, 48367), (114, 48316),

Gene: Swish_57 Start: 48316, Stop: 47948, Start Num: 53
Candidate Starts for Swish_57:
(13, 48520), (14, 48475), (17, 48445), (Start: 52 @48319 has 159 MA's), (Start: 53 @48316 has 121
MA's), (67, 48277), (84, 48196), (104, 48034), (105, 48031), (114, 47980),

Gene: Syra333_77 Start: 49859, Stop: 50242, Start Num: 42
Candidate Starts for Syra333_77:
(Start: 42 @49859 has 18 MA's), (Start: 45 @49865 has 1 MA's), (Start: 55 @49880 has 187 MA's),
(57, 49886), (68, 49919), (73, 49934), (87, 50006), (92, 50045), (98, 50081), (102, 50117), (111,
50174), (113, 50183), (125, 50237),

Gene: TBond007_71 Start: 49524, Stop: 49919, Start Num: 34
Candidate Starts for TBond007_71:
(Start: 34 @49524 has 8 MA's), (Start: 55 @49560 has 187 MA's), (68, 49596), (96, 49743), (98,
49758), (102, 49794), (123, 49911),

Gene: TClif_75 Start: 49609, Stop: 49980, Start Num: 42
Candidate Starts for TClif_75:
(Start: 42 @49609 has 18 MA's), (68, 49660), (87, 49744), (98, 49819), (111, 49912), (113, 49921),

Gene: TM4_93 Start: 31140, Stop: 30757, Start Num: 37
Candidate Starts for TM4_93:
(Start: 37 @31140 has 11 MA's), (68, 31080), (81, 31017), (90, 30966), (95, 30930), (98, 30909), (106,
30837), (114, 30792),

Gene: Tainan_31 Start: 10269, Stop: 10625, Start Num: 55
Candidate Starts for Tainan_31:
(Start: 55 @10269 has 187 MA's), (85, 10383), (98, 10476), (114, 10572),

Gene: TallGrassMM_56 Start: 48268, Stop: 47897, Start Num: 52
Candidate Starts for TallGrassMM_56:
(13, 48469), (14, 48424), (17, 48394), (31, 48307), (Start: 52 @48268 has 159 MA's), (Start: 53
@48265 has 121 MA's), (67, 48226), (82, 48154), (104, 47983), (105, 47980), (114, 47929),

Gene: Tapioca_44 Start: 30636, Stop: 31034, Start Num: 36
Candidate Starts for Tapioca_44:
(Start: 36 @30636 has 27 MA's), (Start: 62 @30687 has 4 MA's), (67, 30702), (98, 30885), (100,
30891), (106, 30942), (112, 30963), (113, 30966), (114, 30981), (119, 31005), (124, 31020), (126,
31023),

Gene: TarsusIV_35 Start: 27299, Stop: 27697, Start Num: 50
Candidate Starts for TarsusIV_35:
(Start: 50 @27299 has 49 MA's), (98, 27521), (102, 27557), (104, 27587), (109, 27611), (113, 27626),
(126, 27683),

Gene: Teardrop_25 Start: 7615, Stop: 7971, Start Num: 55
Candidate Starts for Teardrop_25:
(Start: 55 @7615 has 187 MA's), (98, 7822), (114, 7918),

Gene: TelAviv_72 Start: 47505, Stop: 47128, Start Num: 43
Candidate Starts for TelAviv_72:
(Start: 43 @47505 has 34 MA's), (69, 47445), (73, 47433), (83, 47370), (98, 47277), (100, 47271), (106, 47226), (114, 47181), (124, 47142), (126, 47139),

Gene: Telesworld_54 Start: 48431, Stop: 48060, Start Num: 52
Candidate Starts for Telesworld_54:
(13, 48632), (14, 48587), (17, 48557), (31, 48470), (Start: 52 @48431 has 159 MA's), (Start: 53 @48428 has 121 MA's), (67, 48389), (82, 48317), (104, 48146), (105, 48143), (114, 48092),

Gene: Terrific_39 Start: 27717, Stop: 28112, Start Num: 50
Candidate Starts for Terrific_39:
(Start: 50 @27717 has 49 MA's), (68, 27762), (102, 27975), (104, 28005), (113, 28041),

Gene: Tessdabest_43 Start: 30667, Stop: 31065, Start Num: 36
Candidate Starts for Tessdabest_43:
(Start: 36 @30667 has 27 MA's), (Start: 62 @30718 has 4 MA's), (67, 30733), (98, 30916), (100, 30922), (106, 30973), (112, 30994), (113, 30997), (114, 31012), (119, 31036), (124, 31051), (126, 31054),

Gene: Thora_56 Start: 48650, Stop: 48279, Start Num: 52
Candidate Starts for Thora_56:
(13, 48851), (14, 48806), (17, 48776), (Start: 52 @48650 has 159 MA's), (Start: 53 @48647 has 121 MA's), (67, 48608), (84, 48527), (104, 48365), (105, 48362), (114, 48311),

Gene: Thoth_56 Start: 42721, Stop: 43101, Start Num: 46
Candidate Starts for Thoth_56:
(Start: 46 @42721 has 21 MA's), (63, 42754), (64, 42757), (65, 42760), (79, 42814), (80, 42817), (97, 42937), (114, 43048), (115, 43051),

Gene: ThreeOh3D2_57 Start: 48870, Stop: 48499, Start Num: 52
Candidate Starts for ThreeOh3D2_57:
(13, 49071), (14, 49026), (17, 48996), (Start: 52 @48870 has 159 MA's), (Start: 53 @48867 has 121 MA's), (67, 48828), (84, 48747), (104, 48585), (105, 48582), (114, 48531),

Gene: Thumb_72 Start: 52173, Stop: 52541, Start Num: 55
Candidate Starts for Thumb_72:
(Start: 55 @52173 has 187 MA's), (64, 52200), (69, 52212), (80, 52260), (81, 52275), (103, 52437), (113, 52473), (115, 52491),

Gene: Thunderbird_55 Start: 48353, Stop: 47985, Start Num: 53
Candidate Starts for Thunderbird_55:
(5, 48716), (13, 48557), (14, 48512), (17, 48482), (Start: 52 @48356 has 159 MA's), (Start: 53 @48353 has 121 MA's), (67, 48314), (73, 48296), (82, 48242), (104, 48071), (105, 48068), (114, 48017),

Gene: Tigress9_79 Start: 50174, Stop: 50557, Start Num: 42
Candidate Starts for Tigress9_79:
(Start: 42 @50174 has 18 MA's), (Start: 55 @50195 has 187 MA's), (68, 50234), (73, 50249), (87, 50321), (92, 50360), (98, 50396), (102, 50432), (113, 50498),

Gene: Timmi_55 Start: 48350, Stop: 47982, Start Num: 53
Candidate Starts for Timmi_55:

(13, 48554), (14, 48509), (17, 48479), (Start: 52 @48353 has 159 MA's), (Start: 53 @48350 has 121 MA's), (67, 48311), (82, 48239), (104, 48068), (105, 48065), (114, 48014),

Gene: TinyTim_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for TinyTim_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: TomBombadil_56 Start: 48638, Stop: 48267, Start Num: 52
Candidate Starts for TomBombadil_56:
(13, 48839), (14, 48794), (17, 48764), (31, 48677), (Start: 52 @48638 has 159 MA's), (Start: 53 @48635 has 121 MA's), (67, 48596), (82, 48524), (104, 48353), (105, 48350), (114, 48299),

Gene: Tomlarah_57 Start: 49162, Stop: 48794, Start Num: 53
Candidate Starts for Tomlarah_57:
(13, 49366), (14, 49321), (17, 49291), (Start: 52 @49165 has 159 MA's), (Start: 53 @49162 has 121 MA's), (67, 49123), (84, 49042), (104, 48880), (105, 48877), (114, 48826),

Gene: Toni_55 Start: 48315, Stop: 47944, Start Num: 52
Candidate Starts for Toni_55:
(13, 48516), (14, 48471), (17, 48441), (Start: 52 @48315 has 159 MA's), (Start: 53 @48312 has 121 MA's), (67, 48273), (84, 48192), (104, 48030), (105, 48027), (114, 47976),

Gene: TooFast2Furius_58 Start: 48574, Stop: 48206, Start Num: 53
Candidate Starts for TooFast2Furius_58:
(13, 48778), (14, 48733), (17, 48703), (Start: 52 @48577 has 159 MA's), (Start: 53 @48574 has 121 MA's), (67, 48535), (84, 48454), (104, 48292), (105, 48289), (114, 48238),

Gene: Tooj_54 Start: 47781, Stop: 47410, Start Num: 52
Candidate Starts for Tooj_54:
(13, 47982), (14, 47937), (17, 47907), (31, 47820), (Start: 52 @47781 has 159 MA's), (Start: 53 @47778 has 121 MA's), (67, 47739), (82, 47667), (84, 47658), (104, 47496), (105, 47493), (114, 47442),

Gene: Tortoise12_41 Start: 29353, Stop: 29751, Start Num: 36
Candidate Starts for Tortoise12_41:
(Start: 36 @29353 has 27 MA's), (Start: 62 @29404 has 4 MA's), (67, 29419), (98, 29602), (100, 29608), (106, 29659), (112, 29680), (113, 29683), (114, 29698), (119, 29722), (124, 29737), (126, 29740),

Gene: Tortoise16_25 Start: 8150, Stop: 8506, Start Num: 55
Candidate Starts for Tortoise16_25:
(Start: 55 @8150 has 187 MA's), (85, 8264), (98, 8357), (114, 8453),

Gene: Triad_56 Start: 47565, Stop: 47194, Start Num: 52
Candidate Starts for Triad_56:
(13, 47766), (14, 47721), (17, 47691), (31, 47604), (Start: 52 @47565 has 159 MA's), (Start: 53 @47562 has 121 MA's), (67, 47523), (82, 47451), (84, 47442), (104, 47280), (105, 47277), (114, 47226),

Gene: Trinitium_25 Start: 7591, Stop: 7947, Start Num: 55
Candidate Starts for Trinitium_25:
(Start: 55 @7591 has 187 MA's), (98, 7798), (114, 7894),

Gene: Troll4_56 Start: 42852, Stop: 43232, Start Num: 46
Candidate Starts for Troll4_56:
(Start: 46 @42852 has 21 MA's), (63, 42885), (64, 42888), (65, 42891), (79, 42945), (80, 42948), (97, 43068), (114, 43179), (115, 43182),

Gene: Trooper_37 Start: 27533, Stop: 27931, Start Num: 50
Candidate Starts for Trooper_37:
(Start: 50 @27533 has 49 MA's), (61, 27560), (69, 27581), (88, 27683), (98, 27755), (102, 27791), (104, 27821), (108, 27833), (109, 27845), (126, 27917),

Gene: True_55 Start: 48318, Stop: 47950, Start Num: 53
Candidate Starts for True_55:
(13, 48522), (14, 48477), (17, 48447), (Start: 52 @48321 has 159 MA's), (Start: 53 @48318 has 121 MA's), (67, 48279), (84, 48198), (104, 48036), (105, 48033), (114, 47982),

Gene: Trypo_58 Start: 48787, Stop: 48416, Start Num: 52
Candidate Starts for Trypo_58:
(5, 49147), (13, 48988), (14, 48943), (17, 48913), (Start: 52 @48787 has 159 MA's), (Start: 53 @48784 has 121 MA's), (67, 48745), (73, 48727), (82, 48673), (84, 48664), (104, 48502), (105, 48499), (114, 48448),

Gene: Turbido_36 Start: 27512, Stop: 27892, Start Num: 50
Candidate Starts for Turbido_36:
(Start: 50 @27512 has 49 MA's), (80, 27593), (96, 27701), (104, 27782), (122, 27869),

Gene: Turret_24 Start: 7330, Stop: 7686, Start Num: 55
Candidate Starts for Turret_24:
(Start: 55 @7330 has 187 MA's), (98, 7537), (114, 7633),

Gene: Tyke_28 Start: 9562, Stop: 9918, Start Num: 55
Candidate Starts for Tyke_28:
(Start: 55 @9562 has 187 MA's), (85, 9676), (98, 9769), (114, 9865),

Gene: Typha_103 Start: 64758, Stop: 65096, Start Num: 54
Candidate Starts for Typha_103:
(Start: 54 @64758 has 3 MA's), (59, 64770), (72, 64809), (73, 64812), (100, 64968),

Gene: TyrionL_56 Start: 48209, Stop: 47841, Start Num: 53
Candidate Starts for TyrionL_56:
(5, 48572), (13, 48413), (14, 48368), (17, 48338), (Start: 52 @48212 has 159 MA's), (Start: 53 @48209 has 121 MA's), (67, 48170), (73, 48152), (82, 48098), (84, 48089), (104, 47927), (105, 47924), (114, 47873),

Gene: UAch1_55 Start: 48387, Stop: 48019, Start Num: 53
Candidate Starts for UAch1_55:
(13, 48591), (14, 48546), (17, 48516), (31, 48429), (Start: 52 @48390 has 159 MA's), (Start: 53 @48387 has 121 MA's), (67, 48348), (82, 48276), (104, 48105), (105, 48102), (114, 48051),

Gene: Ubuntu_43 Start: 33316, Stop: 32891, Start Num: 28
Candidate Starts for Ubuntu_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: UncleHowie_55 Start: 48065, Stop: 47694, Start Num: 52
Candidate Starts for UncleHowie_55:
(13, 48266), (14, 48221), (17, 48191), (Start: 52 @48065 has 159 MA's), (Start: 53 @48062 has 121 MA's), (67, 48023), (84, 47942), (104, 47780), (105, 47777), (114, 47726),

Gene: Updawg_37 Start: 27705, Stop: 28100, Start Num: 50
Candidate Starts for Updawg_37:
(Start: 50 @27705 has 49 MA's), (102, 27963), (104, 27993), (113, 28029),

Gene: Usavi_56 Start: 48730, Stop: 48362, Start Num: 53
Candidate Starts for Usavi_56:
(13, 48934), (14, 48889), (17, 48859), (Start: 52 @48733 has 159 MA's), (Start: 53 @48730 has 121 MA's), (67, 48691), (84, 48610), (104, 48448), (105, 48445), (114, 48394),

Gene: Vagabond_76 Start: 47417, Stop: 47040, Start Num: 43
Candidate Starts for Vagabond_76:
(Start: 43 @47417 has 34 MA's), (69, 47357), (73, 47345), (83, 47282), (98, 47189), (100, 47183), (106, 47138), (114, 47093), (124, 47054), (126, 47051),

Gene: Vaishali24_54 Start: 48025, Stop: 47654, Start Num: 52
Candidate Starts for Vaishali24_54:
(13, 48226), (14, 48181), (17, 48151), (31, 48064), (Start: 52 @48025 has 159 MA's), (Start: 53 @48022 has 121 MA's), (67, 47983), (82, 47911), (84, 47902), (104, 47740), (105, 47737), (114, 47686),

Gene: Valjean_55 Start: 48346, Stop: 47975, Start Num: 52
Candidate Starts for Valjean_55:
(8, 48691), (13, 48547), (14, 48502), (17, 48472), (31, 48385), (Start: 52 @48346 has 159 MA's), (Start: 53 @48343 has 121 MA's), (84, 48223), (104, 48061), (105, 48058), (114, 48007),

Gene: ValleyTerrace_26 Start: 8154, Stop: 8510, Start Num: 55
Candidate Starts for ValleyTerrace_26:
(Start: 55 @8154 has 187 MA's), (85, 8268), (98, 8361), (114, 8457),

Gene: Vaticameos_53 Start: 46856, Stop: 46485, Start Num: 52
Candidate Starts for Vaticameos_53:
(13, 47057), (14, 47012), (17, 46982), (Start: 52 @46856 has 159 MA's), (Start: 53 @46853 has 121 MA's), (67, 46814), (84, 46733), (104, 46571), (105, 46568), (114, 46517),

Gene: Veritas_57 Start: 48481, Stop: 48110, Start Num: 52
Candidate Starts for Veritas_57:
(13, 48682), (14, 48637), (17, 48607), (31, 48520), (Start: 52 @48481 has 159 MA's), (Start: 53 @48478 has 121 MA's), (67, 48439), (82, 48367), (104, 48196), (105, 48193), (114, 48142),

Gene: Vincenzo_51 Start: 48916, Stop: 48518, Start Num: 44
Candidate Starts for Vincenzo_51:
(Start: 44 @48916 has 17 MA's), (65, 48871), (66, 48868), (78, 48826), (105, 48619),

Gene: VioletZ_51 Start: 48276, Stop: 47878, Start Num: 44
Candidate Starts for VioletZ_51:
(Start: 44 @48276 has 17 MA's), (66, 48228), (67, 48225), (76, 48204), (105, 47979), (109, 47958), (116, 47922),

Gene: Virapocalypse_57 Start: 48643, Stop: 48275, Start Num: 53
Candidate Starts for Virapocalypse_57:
(5, 49006), (13, 48847), (14, 48802), (17, 48772), (Start: 52 @48646 has 159 MA's), (Start: 53 @48643 has 121 MA's), (67, 48604), (73, 48586), (82, 48532), (84, 48523), (104, 48361), (105, 48358), (114, 48307),

Gene: Virgeve_55 Start: 48083, Stop: 47712, Start Num: 52
Candidate Starts for Virgeve_55:
(5, 48443), (13, 48284), (14, 48239), (17, 48209), (31, 48122), (Start: 52 @48083 has 159 MA's), (Start: 53 @48080 has 121 MA's), (84, 47960), (104, 47798), (105, 47795), (114, 47744),

Gene: Visconti_57 Start: 42732, Stop: 43112, Start Num: 46
Candidate Starts for Visconti_57:
(Start: 46 @42732 has 21 MA's), (63, 42765), (64, 42768), (65, 42771), (79, 42825), (80, 42828), (97, 42948), (114, 43059), (115, 43062),

Gene: Vista_55 Start: 48366, Stop: 47995, Start Num: 52
Candidate Starts for Vista_55:
(13, 48567), (14, 48522), (17, 48492), (Start: 52 @48366 has 159 MA's), (Start: 53 @48363 has 121 MA's), (67, 48324), (84, 48243), (104, 48081), (105, 48078), (114, 48027),

Gene: Vivaldi_57 Start: 48512, Stop: 48144, Start Num: 53
Candidate Starts for Vivaldi_57:
(13, 48716), (14, 48671), (17, 48641), (31, 48554), (Start: 52 @48515 has 159 MA's), (Start: 53 @48512 has 121 MA's), (67, 48473), (82, 48401), (84, 48392), (104, 48230), (105, 48227), (114, 48176),

Gene: Vorrps_76 Start: 47629, Stop: 47252, Start Num: 43
Candidate Starts for Vorrps_76:
(Start: 43 @47629 has 34 MA's), (69, 47569), (73, 47557), (83, 47494), (98, 47401), (100, 47395), (106, 47350), (114, 47305), (124, 47266), (126, 47263),

Gene: Vortex_56 Start: 48348, Stop: 47977, Start Num: 52
Candidate Starts for Vortex_56:
(13, 48549), (14, 48504), (17, 48474), (Start: 52 @48348 has 159 MA's), (Start: 53 @48345 has 121 MA's), (67, 48306), (82, 48234), (104, 48063), (105, 48060), (114, 48009),

Gene: WST1_41 Start: 28367, Stop: 28759, Start Num: 36
Candidate Starts for WST1_41:
(Start: 36 @28367 has 27 MA's), (Start: 44 @28376 has 17 MA's), (Start: 62 @28412 has 4 MA's), (100, 28616), (106, 28667), (113, 28691), (115, 28709), (124, 28745),

Gene: WaldoWhy_58 Start: 42785, Stop: 43165, Start Num: 46
Candidate Starts for WaldoWhy_58:
(Start: 46 @42785 has 21 MA's), (63, 42818), (64, 42821), (65, 42824), (79, 42878), (80, 42881), (97, 43001), (114, 43112), (115, 43115),

Gene: Wallhey_56 Start: 48216, Stop: 47845, Start Num: 52
Candidate Starts for Wallhey_56:
(5, 48576), (13, 48417), (14, 48372), (17, 48342), (Start: 52 @48216 has 159 MA's), (Start: 53 @48213 has 121 MA's), (67, 48174), (73, 48156), (82, 48102), (84, 48093), (104, 47931), (105, 47928), (114, 47877),

Gene: Wally_25 Start: 7577, Stop: 7933, Start Num: 55
Candidate Starts for Wally_25:
(Start: 55 @7577 has 187 MA's), (85, 7691), (98, 7784), (114, 7880),

Gene: Waterdiva_56 Start: 48724, Stop: 48356, Start Num: 53
Candidate Starts for Waterdiva_56:
(13, 48928), (14, 48883), (17, 48853), (Start: 52 @48727 has 159 MA's), (Start: 53 @48724 has 121 MA's), (67, 48685), (84, 48604), (104, 48442), (105, 48439), (114, 48388),

Gene: Webster2_43 Start: 33292, Stop: 32891, Start Num: 38
Candidate Starts for Webster2_43:
(16, 33409), (Start: 28 @33316 has 15 MA's), (Start: 38 @33292 has 2 MA's), (59, 33250), (60, 33247), (67, 33226), (75, 33205), (80, 33175), (95, 33073), (113, 32959), (114, 32944), (115, 32941), (119, 32920), (127, 32899),

Gene: Weher20_56 Start: 49168, Stop: 48800, Start Num: 53
Candidate Starts for Weher20_56:
(13, 49372), (14, 49327), (17, 49297), (Start: 52 @49171 has 159 MA's), (Start: 53 @49168 has 121 MA's), (67, 49129), (84, 49048), (104, 48886), (105, 48883), (114, 48832),

Gene: WeiHuaDA_41 Start: 28941, Stop: 29318, Start Num: 50
Candidate Starts for WeiHuaDA_41:
(Start: 50 @28941 has 49 MA's), (64, 28974), (102, 29181), (104, 29211), (106, 29217), (113, 29247),

Gene: Weirdo19_40 Start: 31397, Stop: 31011, Start Num: 30
Candidate Starts for Weirdo19_40:
(30, 31397), (58, 31340), (67, 31313), (68, 31310), (81, 31256), (82, 31253), (91, 31202), (92, 31184), (98, 31148), (100, 31142), (113, 31064), (115, 31046), (120, 31022), (121, 31016),

Gene: Weiss13_55 Start: 42405, Stop: 42806, Start Num: 36
Candidate Starts for Weiss13_55:
(Start: 36 @42405 has 27 MA's), (Start: 42 @42417 has 18 MA's), (49, 42429), (56, 42441), (59, 42450), (77, 42501), (93, 42615), (98, 42645), (112, 42735), (113, 42738),

Gene: Whabigail7_36 Start: 27500, Stop: 27880, Start Num: 50
Candidate Starts for Whabigail7_36:
(Start: 50 @27500 has 49 MA's), (80, 27581), (96, 27689), (102, 27740), (104, 27770), (122, 27857),

Gene: WideWale_37 Start: 27705, Stop: 28100, Start Num: 50
Candidate Starts for WideWale_37:
(Start: 50 @27705 has 49 MA's), (102, 27963), (104, 27993), (113, 28029),

Gene: Wildflower_76 Start: 47353, Stop: 46976, Start Num: 43
Candidate Starts for Wildflower_76:
(Start: 26 @47401 has 4 MA's), (Start: 43 @47353 has 34 MA's), (69, 47293), (73, 47281), (83, 47218), (98, 47125), (100, 47119), (106, 47074), (114, 47029), (124, 46990), (126, 46987),

Gene: Willis_26 Start: 8594, Stop: 8950, Start Num: 55
Candidate Starts for Willis_26:
(Start: 55 @8594 has 187 MA's), (98, 8801), (114, 8897),

Gene: Windsor_56 Start: 48871, Stop: 48500, Start Num: 52

Candidate Starts for Windsor_56:
(13, 49072), (14, 49027), (17, 48997), (Start: 52 @48871 has 159 MA's), (Start: 53 @48868 has 121 MA's), (67, 48829), (84, 48748), (104, 48586), (105, 48583), (114, 48532),

Gene: Winget_76 Start: 47798, Stop: 47421, Start Num: 43
Candidate Starts for Winget_76:
(Start: 43 @47798 has 34 MA's), (69, 47738), (73, 47726), (83, 47663), (98, 47570), (100, 47564), (106, 47519), (114, 47474), (124, 47435), (126, 47432),

Gene: Wogge42_75 Start: 47288, Stop: 46911, Start Num: 43
Candidate Starts for Wogge42_75:
(Start: 43 @47288 has 34 MA's), (69, 47228), (73, 47216), (83, 47153), (98, 47060), (100, 47054), (106, 47009), (114, 46964), (124, 46925), (126, 46922),

Gene: Xavier_55 Start: 48355, Stop: 47984, Start Num: 52
Candidate Starts for Xavier_55:
(13, 48556), (14, 48511), (17, 48481), (Start: 52 @48355 has 159 MA's), (Start: 53 @48352 has 121 MA's), (67, 48313), (82, 48241), (104, 48070), (105, 48067), (114, 48016),

Gene: Xerxes_42 Start: 30667, Stop: 31065, Start Num: 36
Candidate Starts for Xerxes_42:
(Start: 36 @30667 has 27 MA's), (Start: 62 @30718 has 4 MA's), (67, 30733), (98, 30916), (100, 30922), (106, 30973), (112, 30994), (113, 30997), (114, 31012), (119, 31036), (124, 31051), (126, 31054),

Gene: Ximenita_79 Start: 50183, Stop: 50566, Start Num: 42
Candidate Starts for Ximenita_79:
(Start: 42 @50183 has 18 MA's), (Start: 45 @50189 has 1 MA's), (Start: 55 @50204 has 187 MA's), (57, 50210), (68, 50243), (73, 50258), (87, 50330), (92, 50369), (98, 50405), (102, 50441), (111, 50498), (113, 50507), (125, 50561),

Gene: Xincheng_50 Start: 49257, Stop: 48859, Start Num: 44
Candidate Starts for Xincheng_50:
(Start: 44 @49257 has 17 MA's), (64, 49215), (66, 49209), (67, 49206), (105, 48960), (109, 48939), (116, 48903),

Gene: Yassified_23 Start: 7354, Stop: 7710, Start Num: 55
Candidate Starts for Yassified_23:
(Start: 55 @7354 has 187 MA's), (98, 7561), (114, 7657),

Gene: YemiJoy2021_27 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for YemiJoy2021_27:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),

Gene: Yoshand_57 Start: 48332, Stop: 47961, Start Num: 52
Candidate Starts for Yoshand_57:
(13, 48533), (14, 48488), (17, 48458), (Start: 52 @48332 has 159 MA's), (Start: 53 @48329 has 121 MA's), (67, 48290), (84, 48209), (104, 48047), (105, 48044), (114, 47993),

Gene: YouGoGlencoco_57 Start: 48650, Stop: 48279, Start Num: 52
Candidate Starts for YouGoGlencoco_57:
(13, 48851), (14, 48806), (17, 48776), (Start: 52 @48650 has 159 MA's), (Start: 53 @48647 has 121 MA's), (67, 48608), (73, 48590), (82, 48536), (84, 48527), (104, 48365), (105, 48362), (114, 48311),

Gene: YoungMoneyMata_26 Start: 7905, Stop: 8261, Start Num: 55
Candidate Starts for YoungMoneyMata_26:
(Start: 55 @7905 has 187 MA's), (85, 8019), (98, 8112), (114, 8208),

Gene: YoyoKar_73 Start: 47082, Stop: 46705, Start Num: 43
Candidate Starts for YoyoKar_73:
(Start: 43 @47082 has 34 MA's), (69, 47022), (73, 47010), (83, 46947), (98, 46854), (100, 46848),
(106, 46803), (114, 46758), (124, 46719), (126, 46716),

Gene: Yucca_26 Start: 8621, Stop: 8977, Start Num: 55
Candidate Starts for Yucca_26:
(Start: 55 @8621 has 187 MA's), (98, 8828), (114, 8924),

Gene: YungJamal_80 Start: 48976, Stop: 48599, Start Num: 43
Candidate Starts for YungJamal_80:
(Start: 26 @49024 has 4 MA's), (Start: 43 @48976 has 34 MA's), (69, 48916), (73, 48904), (83, 48841),
(98, 48748), (100, 48742), (106, 48697), (114, 48652), (124, 48613), (126, 48610),

Gene: Zaider_56 Start: 48590, Stop: 48219, Start Num: 52
Candidate Starts for Zaider_56:
(8, 48935), (13, 48791), (14, 48746), (17, 48716), (31, 48629), (Start: 52 @48590 has 159 MA's),
(Start: 53 @48587 has 121 MA's), (84, 48467), (104, 48305), (105, 48302), (114, 48251),

Gene: Zakhe101_75 Start: 47767, Stop: 47390, Start Num: 43
Candidate Starts for Zakhe101_75:
(Start: 26 @47815 has 4 MA's), (Start: 43 @47767 has 34 MA's), (69, 47707), (73, 47695), (83, 47632),
(98, 47539), (100, 47533), (106, 47488), (114, 47443), (124, 47404), (126, 47401),

Gene: Zalkecks_28 Start: 8703, Stop: 9059, Start Num: 55
Candidate Starts for Zalkecks_28:
(12, 8466), (Start: 55 @8703 has 187 MA's), (98, 8910), (114, 9006),

Gene: Zebo_75 Start: 47529, Stop: 47152, Start Num: 43
Candidate Starts for Zebo_75:
(Start: 43 @47529 has 34 MA's), (69, 47469), (73, 47457), (83, 47394), (98, 47301), (100, 47295),
(106, 47250), (114, 47205), (124, 47166), (126, 47163),

Gene: Zeenon_28 Start: 8691, Stop: 9047, Start Num: 55
Candidate Starts for Zeenon_28:
(Start: 55 @8691 has 187 MA's), (85, 8805), (98, 8898), (114, 8994),

Gene: Zelda_56 Start: 48692, Stop: 48321, Start Num: 52
Candidate Starts for Zelda_56:
(13, 48893), (14, 48848), (17, 48818), (Start: 52 @48692 has 159 MA's), (Start: 53 @48689 has 121
MA's), (67, 48650), (84, 48569), (104, 48407), (105, 48404), (114, 48353),

Gene: ZenTime222_39 Start: 31045, Stop: 31446, Start Num: 39
Candidate Starts for ZenTime222_39:
(11, 30802), (Start: 39 @31045 has 5 MA's), (Start: 47 @31063 has 1 MA's), (87, 31219), (94, 31270),
(98, 31294), (114, 31414), (115, 31417),

Gene: ZoeJ_39 Start: 31158, Stop: 30775, Start Num: 37

Candidate Starts for ZoeJ_39:
(35, 31161), (Start: 37 @31158 has 11 MA's), (68, 31098), (74, 31080), (81, 31035), (95, 30948), (98, 30927), (106, 30855), (114, 30810),

Gene: Zonia_57 Start: 48664, Stop: 48296, Start Num: 53
Candidate Starts for Zonia_57:
(5, 49027), (13, 48868), (14, 48823), (17, 48793), (Start: 52 @48667 has 159 MA's), (Start: 53 @48664 has 121 MA's), (67, 48625), (73, 48607), (82, 48553), (84, 48544), (104, 48382), (105, 48379), (114, 48328),

Gene: ZygoTaiga_26 Start: 8699, Stop: 9055, Start Num: 55
Candidate Starts for ZygoTaiga_26:
(Start: 55 @8699 has 187 MA's), (98, 8906), (114, 9002),