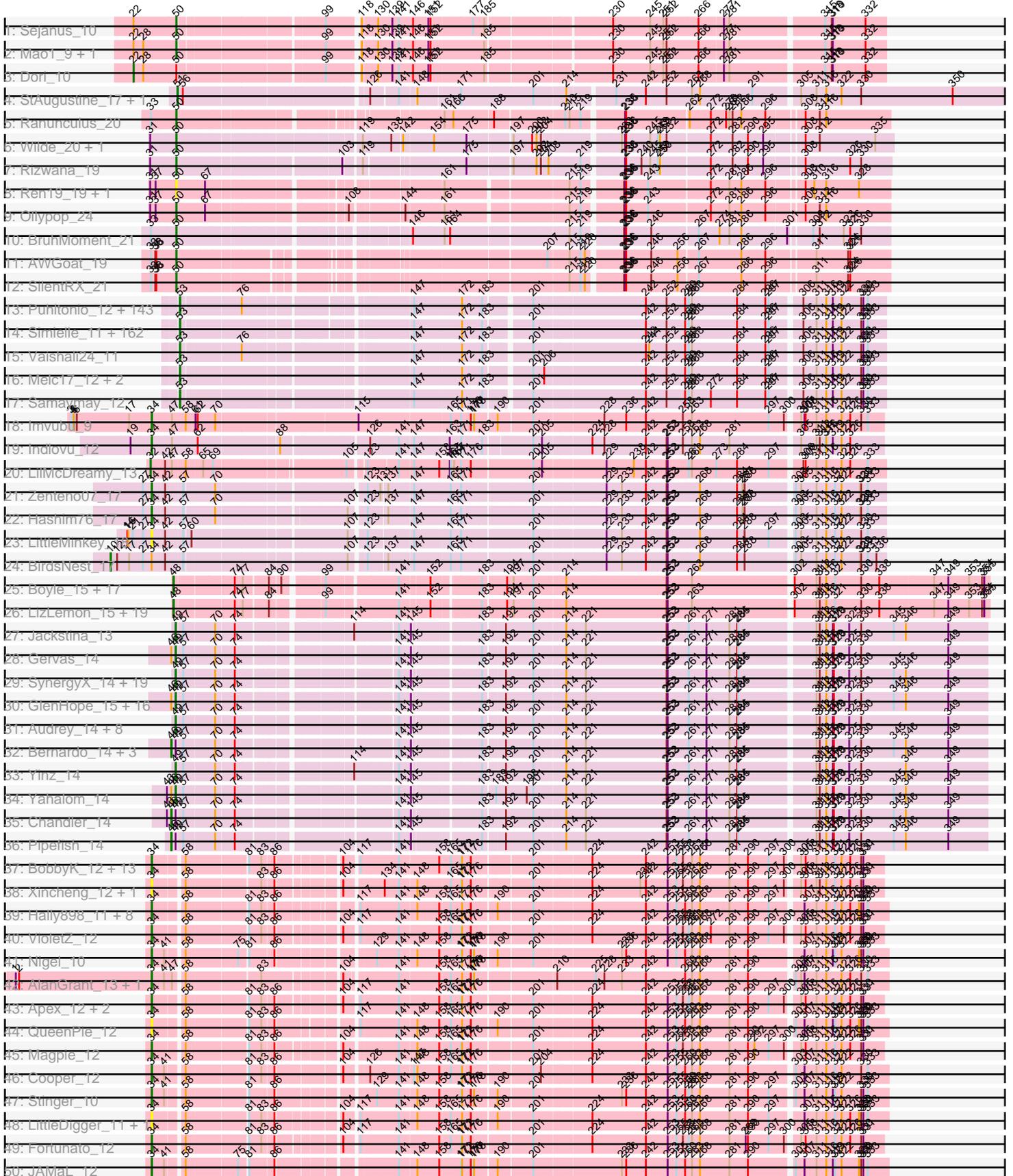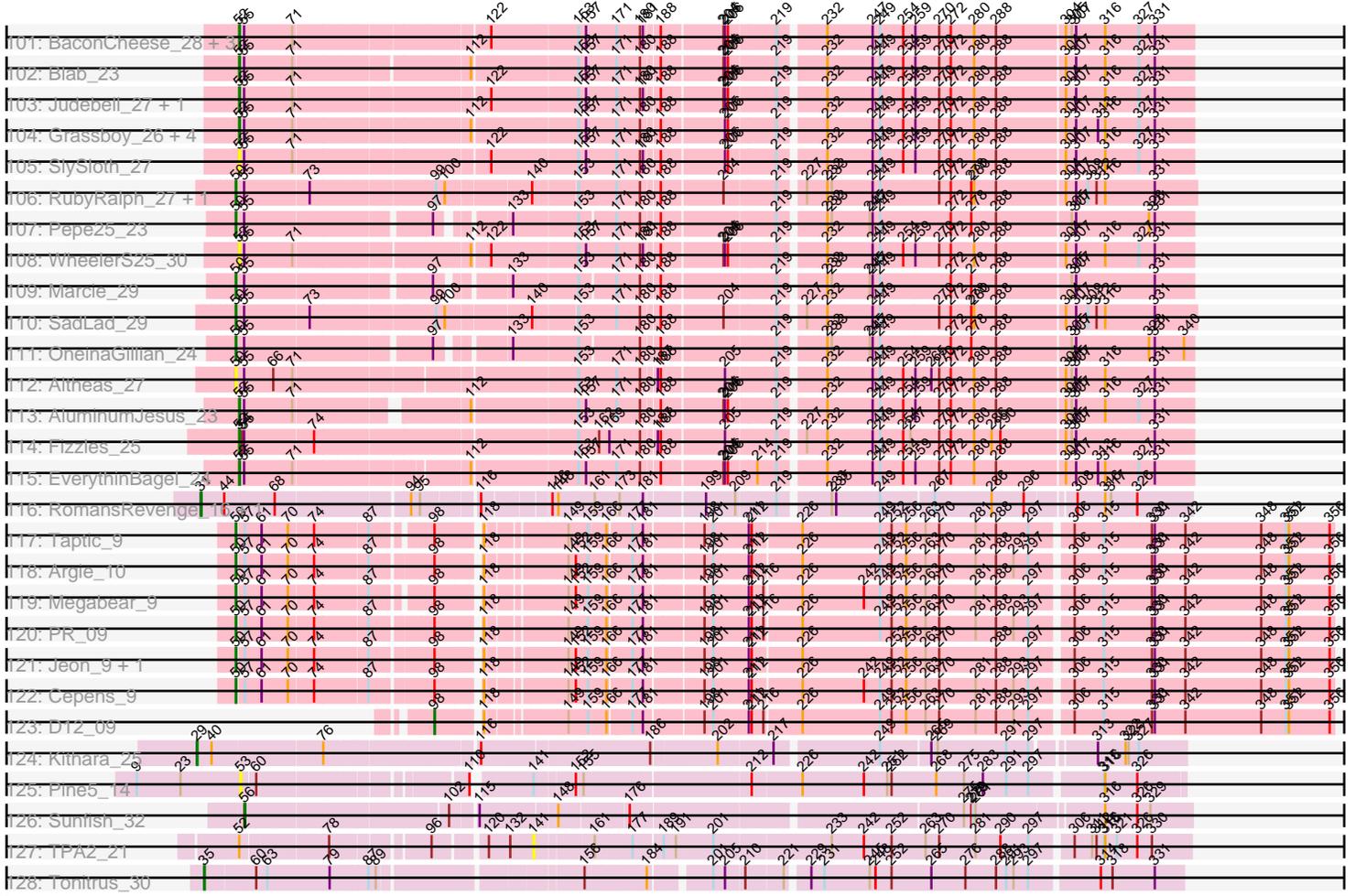Pham 290680

Pham 290680

Pham 290680

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 290680 Report

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

Pham number 290680 has 614 members, 93 are drafts.

Phages represented in each track:
• Track 1 : Sejanus_10
• Track 2 : Mao1_9, Mask_10
• Track 3 : Dori_10
• Track 4 : StAugustine_17, Causa_19
• Track 5 : Ranunculus_20
• Track 6 : Wilde_20, Tank_20
• Track 7 : Rizwana_19
• Track 8 : Ren19_19, Nikan_21
• Track 9 : Ollypop_24
• Track 10 : BruhMoment_21
• Track 11 : AWGoat_19
• Track 12 : SilentRX_21
• Track 13 : Puhltonio_12, Soto_12, HSavage_12, TallGrassMM_12, Gyarad_0012, Cornobble_11, FugateOSU_11, Doddsville_12, OliverWalter_12, Dione_11, Gwilliam_12, Yoshand_12, Virgeve_11, Etaye_12, Newman_12, Khan1_12, Karn_11, Nacho_0012, Rimu_12, JakeO_11, CheetO_12, Antonia_11, Mosaic_11, KlimbOn_12, SallyH_12, BlueHusk_12, Suffolk_12, Mikota_12, ThreeOh3D2_12, DonSanchon_11, Grand2040_11, Badfish_12, Solosis_11, Jesabah_12, Crownjwl_12, Maru_11, Roy17_12, Aelin_11, BlacksBerry_11, Placalicious_11, Dati_12, DirtJuice_12, Pherdinand_12, Jiraiya_11, Jillium_11, Carthage_11, Chorkpop_12, Burr_11, KLucky39_12, DaddyDaniels_12, MrPhizzler_12, Basato_13, UncleHowie_12, MiniBoss_12, Ricotta_11, Mulan_11, Mesmerelda_11, Duggie_11, FluffyNinja_12, Horchata_12, RedRaider89_12, Mana_11, Morgushi_12, Timmi_11, MitKao_12, Olak_11, Thunderbird_11, PinheadLarry_12, SDcharge11_12, BlackStallion_12, Riggan_12, Bishoperium_11, Mcshane_11, Mecca_11, AbsoluteMadLad_11, Happabalu_12, LuckyMarjie_11, Phipps_12, Manad_11, Gareth_11, JDog_11, Beaglebox_11, GreenChile_12, Robyn_11, Bluephacebaby_11, Scoot17C_12, Lasso_12, Lopsy_11, LostAndPhound_11, Tooj_12, Schadenfreude_11, Haleema_11, Scrick_11, Freya_11, RedMaple_11, Pacifista_11, Lulumae_11, Olive_12, AltPhacts_12, Swish_12, Xavier_11, Emiris_12, Vortex_12, Iridessa_12, Giraffe_12, Murdoc_12, Iridoclysis_12, Vaticameos_12, FriarPreacher_12, Potter_11, Pops_12, Chunky_12, Held_12, OneBrain_12, Longacauda_11, FremontTroll_12, Dingo_12, Lumine_11, Oosterbaan_12, Roliet_12, Legolas_11, Sheila_12, Inverness_12, Orwigg_11, Banjo_11, MRabcd_11, Altwerkus_11, Selr12_12, Frankicide_12, Hekos_11, Cornbread_11, Cher_11, Buckeye_12, Colbert_12, Brilliant_12, Triad_12, Plata_12, TooFast2Furius_13, Usavi_12, LeiMonet_12, Cosmolli16_11, Megamind20_12, KingVeVeVe_12,

Lehmann_12
• Track 14 : Simielle_11, Zaider_13, HenryJackson_11, Fringe_12, Pinkman_11, Phamished_12, Andre_12, OSmaximus_12, Phergie_11, Toni_11, Vivaldi_12, BoogieWoogie_11, Plmatters_12, Mesh1_12, Hocus_11, Hartsy_12, Spartan300_12, Piglet_0011, CamL_12, Chuni_11, Daffy_12, Roscoe_13, DelRivs_11, ABU_12, Serpentine_0012, HighStump_11, Hamish_12, Struggle_11, ShadowBud_12, ProfessorX_12, PhenghisKhan_11, Vista_12, Sophia_11, Kikipoo_12, PhatLouie_12, ImtiyazSitla_11, Mutante_11, Keitherie_12, Serendipity_12, Numberten_12, Maskar_11, Inchworm_12, CharlieGBrown_11, BatteryCK_11, Flake_13, Gwennie1_12, Haimas_12, Oline_11, DuchessDung_11, Riverton_11, JacAttac_12, Surely_12, Nicole21_12, Orfeu_11, Hetaeria_12, Phleuron_11, Slatt_12, Derpp_11, Chipette_13, Valjean_12, Virapocalypse_12, Pipsqueak_12, Childish_11, Soile_12, Prickles_12, MichaelPhcott_11, IsaacEli_12, Gophee_12, PhrankReynolds_11, Kailash_12, PallasAthena_12, Magic8_12, TyrionL_11, Zonia_12, True_11, FleetyMac_11, Boehler_12, JangoPhett_12, DoesntMatter_12, Durga_12, Sigman_12, MelsMeow_11, UAch1_12, Labeouficaum_11, Fang_12, Eugenia_12, Quisquiliae_12, Wallhey_11, Kimbrough_12, Craff_12, Kwadwo_11, Waterdiva_12, PhrodoBaggins_11, Kwksand96_11, Chute_11, Mag7_11, Podrick_12, Cannibal_12, Ashraf_11, Chaelin_11, Orion_12, AngelCake_12, Lulwa_12, SassyCat97_11, Charles1_12, PG1_12, Cobra_12, Megatron_12, QueenBeane_12, Telesworld_11, Omniscient_12, LeeLot_12, Aonishiki_12, KingTut_11, DolOn_13, HogWash_11, ElvisPhasley_12, Lego3393_12, Kahve_11, CampRoach_12, Anderson_12, Harvey_12, Coletti_12, Windsor_11, Tomlarah_12, Matalotodo_12, Nyala_11, GeneCoco_12, Phareon_12, LemonSlice_12, Chah_12, SilverBell_12, Caspiboi_11, Hertubise_12, Fozzie_11, Jiminy_11, Zelda_12, EmpTee_12, Apizium_11, TomBombadil_12, Squid_12, SirBeauregard_11, Morty_12, Adriana_12, Thora_12, LasagnaCat_12, Larson_13, Eremos_12, Katniss_12, Daka_12, Dice_11, Aleia_12, Trypo_12, Veritas_11, Skippy_12, Swiphy_12, Phunky_12, YouGoGlencoco_12, Squiggle_12, ShiVal_12, Kloppinator_12, Nathan_12, PhatCats2014_12
• Track 15 : Vaishali24_11
• Track 16 : Melc17_12, Weher20_12, Schueller_11
• Track 17 : Samaymay_12
• Track 18 : Imvubu_9
• Track 19 : Indlovu_12
• Track 20 : LilMcDreamy_13
• Track 21 : Zenteno07_17
• Track 22 : Hashim76_17
• Track 23 : LittleMinkey_18
• Track 24 : BirdsNest_17
• Track 25 : Boyle_15, Arbiter_15, Lephleur_15, Calamitous_15, Phantasmagoria_15, Rhinoforte_15, Faze9_15, MasterPo_15, Kaleb_15, Tres_15, Rosebush_15, West99_15, Qyrzula_14, LilSmirk_15, Kolhan_15, Opia_15, Bananafish_15, Coffee_15
• Track 26 : LizLemon_15, Kheth_15, Ares_15, Eaglehorse_15, ItsyBitsy1_15, FrenchFry_15, Blocker23_15, TA17A_15, Laurie_15, Vic9_00015, Tinciduntsolum_16, Lars_15, Godines_15, Brownie5_15, PrinceCharming_15, Glass_15, Holeinone_15, Sabella_15, Allegro_15, Hedgerow_15
• Track 27 : Jackstina_13
• Track 28 : Gervas_14
• Track 29 : SynergyX_14, RagingRooster_14, Neos5_14, Corofin_14, Baloo_14, Chalmers_14, SwainyDoc_14, ChaChing_14, Akoma_14, Glubnar_14, Casbah_13, Mulaychimus_14, RomaT_14, OrangeOswald_14, Nozo_14, LestyG_14, Deenasa_14, Devonte_14, SlippinJimmy_14, Phaedrus_13

- Track 30 : GlenHope_15, Chentzyk_13, HarveySr_14, Ben11_13, Marlia_14, Briakila_14, Kronus_13, Halfpint_13, Philly_13, Rita1961_14, Mortcellus_13, Compostia_15, Tydolla_14, Obutu_14, MmasiCarm_14, Phayeta_14, Shenandoah_14
- Track 31 : Audrey_14, Athena_15, Daisy_14, Morty007_14, Marley1013_14, TinyTerror_14, Olivio_13, Abinghost_14, Gadjet_15
- Track 32 : Bernardo_14, Heathcliff_14, Kamiyu_14, Phlyer_14
- Track 33 : Yinz_14
- Track 34 : Yahalom_14
- Track 35 : Chandler_14
- Track 36 : Pipefish_14
- Track 37 : BobbyK_12, Austelle_13, Zemanar_13, Mudslide_12, RawrgerThat_12, Heath_12, Hydro_12, JoyceMaria_12, Mithril_12, Lolalove_12, Prince_12, Hangman_12, Waleliano_12, BrownCNA_13
- Track 38 : Xincheng_12, JaguarMi_13
- Track 39 : Hally898_11, Nanao_11, Epah_11, Lambano_11, ChrisnMich_11, Poster_11, Antihero_11, Ahwei_11, GinPorsche_11
- Track 40 : VioletZ_12
- Track 41 : Nigel_10
- Track 42 : AlanGrant_13, Vincenzo_13
- Track 43 : Apex_12, Frederick_12, Fanaw_12
- Track 44 : QueenPie_12
- Track 45 : Magpie_12
- Track 46 : Cooper_12
- Track 47 : Stinger_10
- Track 48 : LittleDigger_11, Renkei_11
- Track 49 : Fortunato_12
- Track 50 : JAMaL_12
- Track 51 : DigitDog_13
- Track 52 : KarasumaRum_14, StinkyVeggy_14
- Track 53 : Shenyu_13, Nangang_13
- Track 54 : Rich_13
- Track 55 : Donny_13, Reccee_14, Rita130_13
- Track 56 : Nehemiah_12, Mysterious_13
- Track 57 : SirJeffery_13, Acadian_13
- Track 58 : Reprobate_13, Phelemich_13
- Track 59 : Suigeneris_13
- Track 60 : Baee_13
- Track 61 : Serendipitous_13
- Track 62 : EastView9101_13
- Track 63 : 39HC_010, 40BC_010, Hosp_08
- Track 64 : ForDig_10
- Track 65 : Jolie1_010
- Track 66 : KayaCho_10
- Track 67 : Saguaro_14
- Track 68 : Thonko_13
- Track 69 : PenguinLover67_15
- Track 70 : Rinkes_17
- Track 71 : Knocker_17
- Track 72 : Quesadilla_14
- Track 73 : Funsized_17
- Track 74 : CRB2_15
- Track 75 : Grumio_44

- Track 76 : Makar_45
- Track 77 : Purplicious_42, Jollymon_44, Sting_43, KingstonB_44, ColdSoup_45, Amo99_45, DonTron_44
- Track 78 : Stillion_44
- Track 79 : Clawz_44
- Track 80 : Soos_40
- Track 81 : Evaa_12
- Track 82 : Wooper_13, CaiB_13, Blackpen_13, MakoManhole_13, CloverMinnie_13, FelixTres_13, TraderJ_13, MossRose_13, AnarQue_13
- Track 83 : BobRoss2024_10
- Track 84 : Shatter_11, Fresco_11, Ligma_11, Axumite_11
- Track 85 : Yago84_11, AnClar_11
- Track 86 : Sisko_11
- Track 87 : AksarBAT_11
- Track 88 : CharlottesWeb_11
- Track 89 : Coldpizza_13
- Track 90 : BiggityBass_10
- Track 91 : LittleMunchkin_12
- Track 92 : NHagos_11
- Track 93 : Mariokart_11
- Track 94 : Yeshua_13
- Track 95 : Sour_14
- Track 96 : Phinky_31
- Track 97 : Mentos_29, Hyperion_24, Mashley_23, Gazebo_24, Tissue_25
- Track 98 : Quammi_23, Zagie_25, Teehee_26, Squash_27, Lonelysoil_24, Wayne3_26, Rudy_23, Nike_25, DonaldDuck_24, Sillytadpoles_24, Phabia_25, Jehoshaphat_27, Viceroy_24, Casend_26, Rowlf_21, Llemily_24, Zhafia_27, Statler_26, Wheelie_24
- Track 99 : Wilca_24, BirdInFrench_24
- Track 100 : Tempo_24, Romm_26, CandC_23, KillerQueen_25, Kelcole_23, Fregley_25, RobinRose_26
- Track 101 : BaconCheese_28, Mila11_28, MorillMayhem_24, BabyDotz_24
- Track 102 : Blab_23
- Track 103 : Judebell_27, FrankDeliGuy_22
- Track 104 : Grassboy_26, StrawberryJamm_27, Kyva_27, Namago_25, SallyK_26
- Track 105 : SlySloth_27
- Track 106 : RubyRalph_27, Fransoyer_27
- Track 107 : Pepe25_23
- Track 108 : WheelerS25_30
- Track 109 : Marcie_29
- Track 110 : SadLad_29
- Track 111 : OneinaGillian_24
- Track 112 : Altheas_27
- Track 113 : AluminumJesus_23
- Track 114 : Fizzles_25
- Track 115 : EverythinBagel_24
- Track 116 : RomansRevenge_16, Boise_16
- Track 117 : Taptic_9
- Track 118 : Argie_10
- Track 119 : Megabear_9
- Track 120 : PR_09
- Track 121 : Jeon_9, GodPhather_10
- Track 122 : Cepens_9

• Track 123 : D12_09
• Track 124 : Kithara_25
• Track 125 : Pine5_14
• Track 126 : Sunfish_32
• Track 127 : TPA2_21
• Track 128 : Tonitrus_30

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

The start number called the most often in the published annotations is 53, it was called in 282 of the 521 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_12, AbsoluteMadLad_11, Adriana_12, Aelin_11, Aleia_12, AltPhacts_12, Altwerkus_11, Anderson_12, Andre_12, AngelCake_12, Antonia_11, Aonishiki_12, Apizium_11, Ashraf_11, Badfish_12, Banjo_11, Basato_13, BatteryCK_11, Beaglebox_11, Bishoperium_11, BlackStallion_12, BlacksBerry_11, BlueHusk_12, Bluephacebaby_11, Boehler_12, BoogieWoogie_11, Brilliant_12, Buckeye_12, Burr_11, CamL_12, CampRoach_12, Cannibal_12, Carthage_11, Caspiboi_11, Chaelin_11, Chah_12, Charles1_12, CharlieGBrown_11, CheetO_12, Cher_11, Childish_11, Chipette_13, Chorkpop_12, Chuni_11, Chunky_12, Chute_11, Cobra_12, Colbert_12, Coldpizza_13, Coletti_12, Cornbread_11, Cornobble_11, Cosmolli16_11, Craff_12, Crownjwl_12, DaddyDaniels_12, Daffy_12, Daka_12, Dati_12, DelRivs_11, Derpp_11, Dice_11, Dingo_12, Dione_11, DirtJuice_12, Doddsville_12, DoesntMatter_12, DolOn_13, DonSanchon_11, DuchessDung_11, Duggie_11, Durga_12, ElvisPhasley_12, Emiris_12, EmpTee_12, Eremos_12, Etaye_12, Eugenia_12, Evaa_12, Fang_12, Flake_13, FleetyMac_11, FluffyNinja_12, Fozzie_11, Frankicide_12, FremontTroll_12, Freya_11, FriarPreacher_12, Fringe_12, FugateOSU_11, Gareth_11, GeneCoco_12, Giraffe_12, Gophee_12, Grand2040_11, GreenChile_12, Gwennie1_12, Gwilliam_12, Gyarad_0012, HSavage_12, Haimas_12, Haleema_11, Hamish_12, Happabalu_12, Hartsy_12, Harvey_12, Hekos_11, Held_12, HenryJackson_11, Hertubise_12, Hetaeria_12, HighStump_11, Hocus_11, HogWash_11, Horchata_12, ImtiyazSitla_11, Inchworm_12, Inverness_12, Iridessa_12, Iridoclysis_12, IsaacEli_12, JDog_11, JacAttac_12, JakeO_11, JangoPhett_12, Jesabah_12, Jillium_11, Jiminy_11, Jiraiya_11, KLucky39_12, Kahve_11, Kailash_12, Karn_11, Katniss_12, Keitherie_12, Khan1_12, Kikipoo_12, Kimbrough_12, KingTut_11, KingVeVeVe_12, KlimbOn_12, Kloppinator_12, Kwadwo_11, Kwksand96_11, Labeouficaum_11, Larson_13, LasagnaCat_12, Lasso_12, LeeLot_12, Lego3393_12, Legolas_11, Lehmann_12, LeiMonet_12, LemonSlice_12, Longacauda_11, Lopsy_11, LostAndPhound_11, LuckyMarjie_11, Lulumae_11, Lulwa_12, Lumine_11, MRabcd_11, Mag7_11, Magic8_12, Mana_11, Manad_11, Maru_11, Maskar_11, Matalotodo_12, Mcshane_11, Mecca_11, Megamind20_12, Megatron_12, Melc17_12, MelsMeow_11, Mesh1_12, Mesmerelda_11, MichaelPhcott_11, Mikota_12, MiniBoss_12, MitKao_12, Morgushi_12, Morty_12, Mosaic_11, MrPhizzler_12, Mulan_11, Murdoc_12, Mutante_11, Nacho_0012, Nathan_12, Newman_12, Nicole21_12, Numberten_12, Nyala_11, OSmaximus_12, Olak_11, Oline_11, Olive_12, OliverWalter_12, Omniscient_12, OneBrain_12, Oosterbaan_12, Orfeu_11, Orion_12, Orwigg_11, PG1_12, Pacifista_11, PallasAthena_12, Phamished_12, Phareon_12, PhatCats2014_12, PhatLouie_12, PhenghisKhan_11, Pherdinand_12,

Phergie_11, Phipps_12, Phleuron_11, PhrankReynolds_11, PhrodoBaggins_11, Phunky_12, Piglet_0011, Pine5_14, PinheadLarry_12, Pinkman_11, Pipsqueak_12, Placalicious_11, Plata_12, Plmatters_12, Podrick_12, Pops_12, Potter_11, Prickles_12, ProfessorX_12, Puhltonio_12, QueenBeane_12, Quisquiliae_12, RedMaple_11, RedRaider89_12, Ricotta_11, Riggan_12, Rimu_12, Riverton_11, Robyn_11, Roliet_12, Roscoe_13, Roy17_12, SDcharge11_12, SallyH_12, Samaymay_12, SassyCat97_11, Schadenfreude_11, Schueller_11, Scoot17C_12, Scrick_11, Selr12_12, Serendipity_12, Serpentine_0012, ShadowBud_12, Sheila_12, ShiVal_12, Sigman_12, SilverBell_12, Simielle_11, SirBeauregard_11, Skippy_12, Slatt_12, Soile_12, Solosis_11, Sophia_11, Soto_12, Spartan300_12, Squid_12, Squiggle_12, Struggle_11, Suffolk_12, Surely_12, Swiphy_12, Swish_12, TallGrassMM_12, Telesworld_11, Thora_12, ThreeOh3D2_12, Thunderbird_11, Timmi_11, TomBombadil_12, Tomlarah_12, Toni_11, TooFast2Furius_13, Tooj_12, Triad_12, True_11, Trypo_12, TyrionL_11, UAch1_12, UncleHowie_12, Usavi_12, Vaishali24_11, Valjean_12, Vaticameos_12, Veritas_11, Virapocalypse_12, Virgeve_11, Vista_12, Vivaldi_12, Vortex_12, Wallhey_11, Waterdiva_12, Weher20_12, Windsor_11, Xavier_11, Yoshand_12, YouGoGlencoco_12, Zaider_13, Zelda_12, Zonia_12,

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

Genes that do not have the "Most Annotated" start:
• 39HC_010, 40BC_010, AWGoat_19, Abinghost_14, Acadian_13, Ahwei_11, Akoma_14, AksarBAT_11, AlanGrant_13, Allegro_15, Altheas_27, AluminumJesus_23, Amo99_45, AnClar_11, AnarQue_13, Antihero_11, Apex_12, Arbiter_15, Ares_15, Argie_10, Athena_15, Audrey_14, Austelle_13, Axumite_11, BabyDotz_24, BaconCheese_28, Baee_13, Baloo_14, Bananafish_15, Ben11_13, Bernardo_14, BiggityBass_10, BirdInFrench_24, BirdsNest_17, Blab_23, Blackpen_13, Blocker23_15, BobRoss2024_10, BobbyK_12, Boise_16, Boyle_15, Briakila_14, BrownCNA_13, Brownie5_15, BruhMoment_21, CRB2_15, CaiB_13, Calamitous_15, CandC_23, Casbah_13, Casend_26, Causa_19, Cepens_9, ChaChing_14, Chalmers_14, Chandler_14, CharlottesWeb_11, Chentzyk_13, ChrisnMich_11, Clawz_44, CloverMinnie_13, Coffee_15, ColdSoup_45, Compostia_15, Cooper_12, Corofin_14, D12_09, Daisy_14, Deenasa_14, Devonte_14, DigitDog_13, DonTron_44, DonaldDuck_24, Donny_13, Dori_10, Eaglehorse_15, EastView9101_13, Epah_11, EverythinBagel_24, Fanaw_12, Faze9_15, FelixTres_13, Fizzles_25, ForDig_10, Fortunato_12, FrankDeliGuy_22, Fransoyer_27, Frederick_12, Fregley_25, FrenchFry_15, Fresco_11, Funsized_17, Gadjet_15, Gazebo_24, Gervas_14, GinPorsche_11, Glass_15, GlenHope_15, Glubnar_14, GodPhather_10, Godines_15, Grassboy_26, Grumio_44, Halfpint_13, Hally898_11, Hangman_12, HarveySr_14, Hashim76_17, Heath_12, Heathcliff_14, Hedgerow_15, Holeinone_15, Hosp_08, Hydro_12, Hyperion_24, Imvubu_9, Indlovu_12, ItsyBitsy1_15, JAMaL_12, Jackstina_13, JaguarMi_13, Jehoshaphat_27, Jeon_9, Jolie1_010, Jollymon_44, JoyceMaria_12, Judebell_27, Kaleb_15, Kamiyu_14, KarasumaRum_14, KayaCho_10, Kelcole_23, Kheth_15, KillerQueen_25, KingstonB_44, Kithara_25, Knocker_17, Kolhan_15, Kronus_13, Kyva_27, Lambano_11, Lars_15, Laurie_15, Lephleur_15, LestyG_14, Ligma_11, LilMcDreamy_13, LilSmirk_15, LittleDigger_11, LittleMinkey_18, LittleMunchkin_12, LizLemon_15, Llemily_24, Lolalove_12, Lonelysoil_24, Magpie_12, Makar_45, MakoManhole_13, Mao1_9, Marcie_29, Mariokart_11, Marley1013_14, Marlia_14, Mashley_23, Mask_10, MasterPo_15, Megabear_9, Mentos_29, Mila11_28, Mithril_12, MmasiCarm_14, MorillMayhem_24, Mortcellus_13, Morty007_14,

MossRose_13, Mudslide_12, Mulaychimus_14, Mysterious_13, NHagos_11, Namago_25, Nanao_11, Nangang_13, Nehemiah_12, Neos5_14, Nigel_10, Nikan_21, Nike_25, Nozo_14, Obutu_14, Olivio_13, Ollypop_24, OneinaGillian_24, Opia_15, OrangeOswald_14, PR_09, PenguinLover67_15, Pepe25_23, Phabia_25, Phaedrus_13, Phantasmagoria_15, Phayeta_14, Phelemich_13, Philly_13, Phinky_31, Phlyer_14, Pipefish_14, Poster_11, PrinceCharming_15, Prince_12, Purplicious_42, Quammi_23, QueenPie_12, Quesadilla_14, Qyrzula_14, RagingRooster_14, Ranunculus_20, RawrgerThat_12, Reccee_14, Ren19_19, Renkei_11, Reprobate_13, Rhinoforte_15, Rich_13, Rinkes_17, Rita130_13, Rita1961_14, Rizwana_19, RobinRose_26, RomaT_14, RomansRevenge_16, Romm_26, Rosebush_15, Rowlf_21, RubyRalph_27, Rudy_23, Sabella_15, SadLad_29, Saguaro_14, SallyK_26, Sejanus_10, Serendipitous_13, Shatter_11, Shenandoah_14, Shenyu_13, SilentRX_21, Sillytadpoles_24, SirJeffery_13, Sisko_11, SlippinJimmy_14, SlySloth_27, Soos_40, Sour_14, Squash_27, StAugustine_17, Statler_26, Stillion_44, Sting_43, Stinger_10, StinkyVeggy_14, StrawberryJamm_27, Suigeneris_13, Sunfish_32, SwainyDoc_14, SynergyX_14, TA17A_15, TPA2_21, Tank_20, Taptic_9, Teehee_26, Tempo_24, Thonko_13, Tinciduntsolum_16, TinyTerror_14, Tissue_25, Tonitrus_30, TraderJ_13, Tres_15, Tydolla_14, Vic9_00015, Viceroy_24, Vincenzo_13, VioletZ_12, Waleliano_12, Wayne3_26, West99_15, WheelerS25_30, Wheelie_24, Wilca_24, Wilde_20, Wooper_13, Xincheng_12, Yago84_11, Yahalom_14, Yeshua_13, Yinz_14, Zagie_25, Zemanar_13, Zenteno07_17, Zhafia_27,

Summary by start number:

Start 10:
• Found in 1 of 614 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BirdsNest_17 (B13),

Start 11:
• Found in 1 of 614 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Knocker_17 (B9),

Start 15:
• Found in 6 of 614 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 83.3% of time when present
• Phage (with cluster) where this start called: 39HC_010 (B6), 40BC_010 (B6), Hosp_08 (B6), Jolie1_010 (B6), KayaCho_10 (B6),

Start 19:
• Found in 2 of 614 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Quesadilla_14 (B9),

Start 20:
• Found in 3 of 614 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 521

• Called 33.3% of time when present
• Phage (with cluster) where this start called: Baee_13 (B5),

Start 22:
• Found in 4 of 614 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Dori_10 (AD),

Start 24:
• Found in 6 of 614 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 16.7% of time when present
• Phage (with cluster) where this start called: ForDig_10 (B6),

Start 26:
• Found in 13 of 614 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 521
• Called 30.8% of time when present
• Phage (with cluster) where this start called: Acadian_13 (B5), DigitDog_13 (B5),
Serendipitous_13 (B5), SirJeffery_13 (B5),

Start 29:
• Found in 1 of 614 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_25 (singleton),

Start 30:
• Found in 12 of 614 (2.0%) of genes in pham
• No Manual Annotations of this start.
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Grumio_44 (CP),

Start 31:
• Found in 8 of 614 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Boise_16 (FT), RomansRevenge_16
(FT),

Start 32:
• Found in 2 of 614 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LilMcDreamy_13 (B12),

Start 34:
• Found in 89 of 614 (14.5%) of genes in pham
• Manual Annotations of this start: 47 of 521
• Called 84.3% of time when present
• Phage (with cluster) where this start called: Ahwei_11 (B4), AlanGrant_13 (B4),
Amo99_45 (CP), Antihero_11 (B4), Apex_12 (B4), Austelle_13 (B4), BobbyK_12 (B4),

BrownCNA_13 (B4), CRB2_15 (B9), ChrisnMich_11 (B4), Clawz_44 (CP), ColdSoup_45 (CP), Cooper_12 (B4), DonTron_44 (CP), Donny_13 (B5), EastView9101_13 (B5), Epah_11 (B4), Fanaw_12 (B4), Fortunato_12 (B4), Frederick_12 (B4), Funsized_17 (B9), GinPorsche_11 (B4), Hally898_11 (B4), Hangman_12 (B4), Hashim76_17 (B13), Heath_12 (B4), Hydro_12 (B4), Imvubu_9 (B10), Indlovu_12 (B11), JAMaL_12 (B4), JaguarMi_13 (B4), Jollymon_44 (CP), JoyceMaria_12 (B4), KarasumaRum_14 (B5), KingstonB_44 (CP), Lambano_11 (B4), LittleDigger_11 (B4), LittleMinkey_18 (B13), Lolalove_12 (B4), Magpie_12 (B4), Makar_45 (CP), Mithril_12 (B4), Mudslide_12 (B4), Mysterious_13 (B5), Nanao_11 (B4), Nangang_13 (B5), Nehemiah_12 (B5), Nigel_10 (B4), PenguinLover67_15 (B9), Phelemich_13 (B5), Poster_11 (B4), Prince_12 (B4), Purplicious_42 (CP), QueenPie_12 (B4), RawrgerThat_12 (B4), Reccee_14 (B5), Renkei_11 (B4), Reprobate_13 (B5), Rich_13 (B5), Rinkes_17 (B9), Rita130_13 (B5), Saguaro_14 (B7), Shenyu_13 (B5), Soos_40 (CP), Stillion_44 (CP), Sting_43 (CP), Stinger_10 (B4), StinkyVeggy_14 (B5), Suigeneris_13 (B5), Vincenzo_13 (B4), VioletZ_12 (B4), Waleliano_12 (B4), Xincheng_12 (B4), Zemanar_13 (B4), Zenteno07_17 (B13),

Start 35:
• Found in 1 of 614 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tonitrus_30 (singleton),

Start 46:
• Found in 25 of 614 (4.1%) of genes in pham
• Manual Annotations of this start: 6 of 521
• Called 24.0% of time when present
• Phage (with cluster) where this start called: Bernardo_14 (B3), Chandler_14 (B3), Heathcliff_14 (B3), Kamiyu_14 (B3), Phlyer_14 (B3), Pipefish_14 (B3),

Start 48:
• Found in 38 of 614 (6.2%) of genes in pham
• Manual Annotations of this start: 37 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Allegro_15 (B2), Arbiter_15 (B2), Ares_15 (B2), Bananafish_15 (B2), Blocker23_15 (B2), Boyle_15 (B2), Brownie5_15 (B2), Calamitous_15 (B2), Coffee_15 (B2), Eaglehorse_15 (B2), Faze9_15 (B2), FrenchFry_15 (B2), Glass_15 (B2), Godines_15 (B2), Hedgerow_15 (B2), Holeinone_15 (B2), ItsyBitsy1_15 (B2), Kaleb_15 (B2), Kheth_15 (B2), Kolhan_15 (B2), Lars_15 (B2), Laurie_15 (B2), Lephleur_15 (B2), LilSmirk_15 (B2), LizLemon_15 (B2), MasterPo_15 (B2), Opia_15 (B2), Phantasmagoria_15 (B2), PrinceCharming_15 (B2), Qyrzula_14 (B2), Rhinoforte_15 (B2), Rosebush_15 (B2), Sabella_15 (B2), TA17A_15 (B2), Tinciduntsolum_16 (B2), Tres_15 (B2), Vic9_00015 (B2), West99_15 (B2),

Start 49:
• Found in 56 of 614 (9.1%) of genes in pham
• Manual Annotations of this start: 44 of 521
• Called 89.3% of time when present
• Phage (with cluster) where this start called: Abinghost_14 (B3), Akoma_14 (B3), Athena_15 (B3), Audrey_14 (B3), Baloo_14 (B3), Ben11_13 (B3), Briakila_14 (B3), Casbah_13 (B3), ChaChing_14 (B3), Chalmers_14 (B3), Chentzyk_13 (B3), Compostia_15 (B3), Corofin_14 (B3), Daisy_14 (B3), Deenasa_14 (B3), Devonte_14

(B3), Gadjet_15 (B3), Gervas_14 (B3), GlenHope_15 (B3), Glubnar_14 (B3), Halfpint_13 (B3), HarveySr_14 (B3), Jackstina_13 (B3), Kronus_13 (B3), LestyG_14 (B3), Marley1013_14 (B3), Marlia_14 (B3), MmasiCarm_14 (B3), Mortcellus_13 (B3), Morty007_14 (B3), Mulaychimus_14 (B3), Neos5_14 (B3), Nozo_14 (B3), Obutu_14 (B3), Olivio_13 (B3), OrangeOswald_14 (B3), Phaedrus_13 (B3), Phayeta_14 (B3), Philly_13 (B3), RagingRooster_14 (B3), Rita1961_14 (B3), RomaT_14 (B3), Shenandoah_14 (B3), SlippinJimmy_14 (B3), SwainyDoc_14 (B3), SynergyX_14 (B3), TinyTerror_14 (B3), Tydolla_14 (B3), Yahalom_14 (B3), Yinz_14 (B3),

Start 50:
• Found in 38 of 614 (6.2%) of genes in pham
• Manual Annotations of this start: 33 of 521
• Called 97.4% of time when present
• Phage (with cluster) where this start called: AWGoat_19 (AP4), Altheas_27 (EG), Argie_10 (W), BirdInFrench_24 (EG), BruhMoment_21 (AP3), CandC_23 (EG), Cepens_9 (W), Fransoyer_27 (EG), Fregley_25 (EG), GodPhather_10 (W), Jeon_9 (W), Kelcole_23 (EG), KillerQueen_25 (EG), Mao1_9 (AD), Marcie_29 (EG), Mask_10 (AD), Megabear_9 (W), Nikan_21 (AP2), Ollypop_24 (AP2), OneinaGillian_24 (EG), PR_09 (W), Pepe25_23 (EG), Phinky_31 (EG), Ranunculus_20 (AP), Ren19_19 (AP2), Rizwana_19 (AP1), RobinRose_26 (EG), Romm_26 (EG), RubyRalph_27 (EG), SadLad_29 (EG), Sejanus_10 (AD), SilentRX_21 (AP4), Tank_20 (AP1), Taptic_9 (W), Tempo_24 (EG), Wilca_24 (EG), Wilde_20 (AP1),

Start 51:
• Found in 27 of 614 (4.4%) of genes in pham
• Manual Annotations of this start: 21 of 521
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_11 (DR), AnClar_11 (DR), AnarQue_13 (DR), Axumite_11 (DR), BiggityBass_10 (DR), Blackpen_13 (DR), BobRoss2024_10 (DR), CaiB_13 (DR), Causa_19 (AI), CharlottesWeb_11 (DR), CloverMinnie_13 (DR), FelixTres_13 (DR), Fresco_11 (DR), Ligma_11 (DR), LittleMunchkin_12 (DR), MakoManhole_13 (DR), Mariokart_11 (DR), MossRose_13 (DR), NHagos_11 (DR), Shatter_11 (DR), Sisko_11 (DR), Sour_14 (DR), StAugustine_17 (AI), TraderJ_13 (DR), Wooper_13 (DR), Yago84_11 (DR), Yeshua_13 (DR),

Start 52:
• Found in 43 of 614 (7.0%) of genes in pham
• Manual Annotations of this start: 36 of 521
• Called 97.7% of time when present
• Phage (with cluster) where this start called: AluminumJesus_23 (EG), BabyDotz_24 (EG), BaconCheese_28 (EG), Blab_23 (EG), Casend_26 (EG), DonaldDuck_24 (EG), EverythinBagel_24 (EG), Fizzles_25 (EG), FrankDeliGuy_22 (EG), Gazebo_24 (EG), Grassboy_26 (EG), Hyperion_24 (EG), Jehoshaphat_27 (EG), Judebell_27 (EG), Kyva_27 (EG), Llemily_24 (EG), Lonelysoil_24 (EG), Mashley_23 (EG), Mentos_29 (EG), Mila11_28 (EG), MorillMayhem_24 (EG), Namago_25 (EG), Nike_25 (EG), Phabia_25 (EG), Quammi_23 (EG), Rowlf_21 (EG), Rudy_23 (EG), SallyK_26 (EG), Sillytadpoles_24 (EG), SlySloth_27 (EG), Squash_27 (EG), Statler_26 (EG), StrawberryJamm_27 (EG), Teehee_26 (EG), Thonko_13 (B8), Tissue_25 (EG), Viceroy_24 (EG), Wayne3_26 (EG), WheelerS25_30 (EG), Wheelie_24 (EG), Zagie_25 (EG), Zhafia_27 (EG),

Start 53:

- Found in 315 of 614 (51.3%) of genes in pham
- Manual Annotations of this start: 282 of 521
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ABU_12 (B1), AbsoluteMadLad_11 (B1), Adriana_12 (B1), Aelin_11 (B1), Aleia_12 (B1), AltPhacts_12 (B1), Altwerkus_11 (B1), Anderson_12 (B1), Andre_12 (B1), AngelCake_12 (B1), Antonia_11 (B1), Aonishiki_12 (B1), Apizium_11 (B1), Ashraf_11 (B1), Badfish_12 (B1), Banjo_11 (B1), Basato_13 (B1), BatteryCK_11 (B1), Beaglebox_11 (B1), Bishoperium_11 (B1), BlackStallion_12 (B1), BlacksBerry_11 (B1), BlueHusk_12 (B1), Bluephacebaby_11 (B1), Boehler_12 (B1), BoogieWoogie_11 (B1), Brilliant_12 (B1), Buckeye_12 (B1), Burr_11 (B1), CamL_12 (B1), CampRoach_12 (B1), Cannibal_12 (B1), Carthage_11 (B1), Caspiboi_11 (B1), Chaelin_11 (B1), Chah_12 (B1), Charles1_12 (B1), CharlieGBrown_11 (B1), CheetO_12 (B1), Cher_11 (B1), Childish_11 (B1), Chipette_13 (B1), Chorkpop_12 (B1), Chuni_11 (B1), Chunky_12 (B1), Chute_11 (B1), Cobra_12 (B1), Colbert_12 (B1), Coldpizza_13 (DR), Coletti_12 (B1), Cornbread_11 (B1), Cornobble_11 (B1), Cosmolli16_11 (B1), Craff_12 (B1), Crownjwl_12 (B1), DaddyDaniels_12 (B1), Daffy_12 (B1), Daka_12 (B1), Dati_12 (B1), DelRivs_11 (B1), Derpp_11 (B1), Dice_11 (B1), Dingo_12 (B1), Dione_11 (B1), DirtJuice_12 (B1), Doddsville_12 (B1), DoesntMatter_12 (B1), DolOn_13 (B1), DonSanchon_11 (B1), DuchessDung_11 (B1), Duggie_11 (B1), Durga_12 (B1), ElvisPhasley_12 (B1), Emiris_12 (B1), EmpTee_12 (B1), Eremos_12 (B1), Etaye_12 (B1), Eugenia_12 (B1), Evaa_12 (DR), Fang_12 (B1), Flake_13 (B1), FleetyMac_11 (B1), FluffyNinja_12 (B1), Fozzie_11 (B1), Frankicide_12 (B1), FremontTroll_12 (B1), Freya_11 (B1), FriarPreacher_12 (B1), Fringe_12 (B1), FugateOSU_11 (B1), Gareth_11 (B1), GeneCoco_12 (B1), Giraffe_12 (B1), Gophee_12 (B1), Grand2040_11 (B1), GreenChile_12 (B1), Gwennie1_12 (B1), Gwilliam_12 (B1), Gyarad_0012 (B1), HSavage_12 (B1), Haimas_12 (B1), Haleema_11 (B1), Hamish_12 (B1), Happabalu_12 (B1), Hartsy_12 (B1), Harvey_12 (B1), Hekos_11 (B1), Held_12 (B1), HenryJackson_11 (B1), Hertubise_12 (B1), Hetaeria_12 (B1), HighStump_11 (B1), Hocus_11 (B1), HogWash_11 (B1), Horchata_12 (B1), ImtiyazSitla_11 (B1), Inchworm_12 (B1), Inverness_12 (B1), Iridessa_12 (B1), Iridoclysis_12 (B1), IsaacEli_12 (B1), JDog_11 (B1), JacAttac_12 (B1), JakeO_11 (B1), JangoPhett_12 (B1), Jesabah_12 (B1), Jillium_11 (B1), Jiminy_11 (B1), Jiraiya_11 (B1), KLucky39_12 (B1), Kahve_11 (B1), Kailash_12 (B1), Karn_11 (B1), Katniss_12 (B1), Keitherie_12 (B1), Khan1_12 (B1), Kikipoo_12 (B1), Kimbrough_12 (B1), KingTut_11 (B1), KingVeVeVe_12 (B1), KlimbOn_12 (B1), Kloppinator_12 (B1), Kwadwo_11 (B1), Kwksand96_11 (B1), Labeouficaum_11 (B1), Larson_13 (B1), LasagnaCat_12 (B1), Lasso_12 (B1), LeeLot_12 (B1), Lego3393_12 (B1), Legolas_11 (B1), Lehmann_12 (B1), LeiMonet_12 (B1), LemonSlice_12 (B1), Longacauda_11 (B1), Lopsy_11 (B1), LostAndPhound_11 (B1), LuckyMarjie_11 (B1), Lulumae_11 (B1), Lulwa_12 (B1), Lumine_11 (B1), MRabcd_11 (B1), Mag7_11 (B1), Magic8_12 (B1), Mana_11 (B1), Manad_11 (B1), Maru_11 (B1), Maskar_11 (B1), Matalotodo_12 (B1), Mcshane_11 (B1), Mecca_11 (B1), Megamind20_12 (B1), Megatron_12 (B1), Melc17_12 (B1), MelsMeow_11 (B1), Mesh1_12 (B1), Mesmerelda_11 (B1), MichaelPhcott_11 (B1), Mikota_12 (B1), MiniBoss_12 (B1), MitKao_12 (B1), Morgushi_12 (B1), Morty_12 (B1), Mosaic_11 (B1), MrPhizzler_12 (B1), Mulan_11 (B1), Murdoc_12 (B1), Mutante_11 (B1), Nacho_0012 (B1), Nathan_12 (B1), Newman_12 (B1), Nicole21_12 (B1), Numberten_12 (B1), Nyala_11 (B1), OSmaximus_12 (B1), Olak_11 (B1), Oline_11 (B1), Olive_12 (B1), OliverWalter_12 (B1), Omniscient_12 (B1), OneBrain_12 (B1), Oosterbaan_12 (B1), Orfeu_11 (B1), Orion_12 (B1), Orwigg_11 (B1), PG1_12 (B1), Pacifista_11 (B1), PallasAthena_12 (B1), Phamished_12 (B1), Phareon_12 (B1), PhatCats2014_12 (B1), PhatLouie_12 (B1), PhenghisKhan_11 (B1), Pherdinand_12 (B1), Phergie_11

(B1), Phipps_12 (B1), Phleuron_11 (B1), PhrankReynolds_11 (B1), PhrodoBaggins_11 (B1), Phunky_12 (B1), Piglet_0011 (B1), Pine5_14 (singleton), PinheadLarry_12 (B1), Pinkman_11 (B1), Pipsqueak_12 (B1), Placalicious_11 (B1), Plata_12 (B1), Plmatters_12 (B1), Podrick_12 (B1), Pops_12 (B1), Potter_11 (B1), Prickles_12 (B1), ProfessorX_12 (B1), Puhltonio_12 (B1), QueenBeane_12 (B1), Quisquiliae_12 (B1), RedMaple_11 (B1), RedRaider89_12 (B1), Ricotta_11 (B1), Riggan_12 (B1), Rimu_12 (B1), Riverton_11 (B1), Robyn_11 (B1), Roliet_12 (B1), Roscoe_13 (B1), Roy17_12 (B1), SDcharge11_12 (B1), SallyH_12 (B1), Samaymay_12 (B1), SassyCat97_11 (B1), Schadenfreude_11 (B1), Schueller_11 (B1), Scoot17C_12 (B1), Scrick_11 (B1), Selr12_12 (B1), Serendipity_12 (B1), Serpentine_0012 (B1), ShadowBud_12 (B1), Sheila_12 (B1), ShiVal_12 (B1), Sigman_12 (B1), SilverBell_12 (B1), Simielle_11 (B1), SirBeauregard_11 (B1), Skippy_12 (B1), Slatt_12 (B1), Soile_12 (B1), Solosis_11 (B1), Sophia_11 (B1), Soto_12 (B1), Spartan300_12 (B1), Squid_12 (B1), Squiggle_12 (B1), Struggle_11 (B1), Suffolk_12 (B1), Surely_12 (B1), Swiphy_12 (B1), Swish_12 (B1), TallGrassMM_12 (B1), Telesworld_11 (B1), Thora_12 (B1), ThreeOh3D2_12 (B1), Thunderbird_11 (B1), Timmi_11 (B1), TomBombadil_12 (B1), Tomlarah_12 (B1), Toni_11 (B1), TooFast2Furius_13 (B1), Tooj_12 (B1), Triad_12 (B1), True_11 (B1), Trypo_12 (B1), TyrionL_11 (B1), UAch1_12 (B1), UncleHowie_12 (B1), Usavi_12 (B1), Vaishali24_11 (B1), Valjean_12 (B1), Vaticameos_12 (B1), Veritas_11 (B1), Virapocalypse_12 (B1), Virgeve_11 (B1), Vista_12 (B1), Vivaldi_12 (B1), Vortex_12 (B1), Wallhey_11 (B1), Waterdiva_12 (B1), Weher20_12 (B1), Windsor_11 (B1), Xavier_11 (B1), Yoshand_12 (B1), YouGoGlencoco_12 (B1), Zaider_13 (B1), Zelda_12 (B1), Zonia_12 (B1),

Start 56:
• Found in 3 of 614 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Sunfish_32 (singleton),

Start 98:
• Found in 8 of 614 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 521
• Called 12.5% of time when present
• Phage (with cluster) where this start called: D12_09 (W),

Start 141:
• Found in 207 of 614 (33.7%) of genes in pham
• No Manual Annotations of this start.
• Called 0.5% of time when present
• Phage (with cluster) where this start called: TPA2_21 (singleton),

Summary by clusters:

There are 26 clusters represented in this pham: singleton, FT, AP2, AP3, AP1, AP4, B12, B13, B10, B11, DR, AD, AI, EG, AP, W, CP, B4, B5, B6, B7, B1, B2, B3, B8, B9,

Info for manual annotations of cluster AD:
•Start number 22 was manually annotated 1 time for cluster AD.
•Start number 50 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AI:

•Start number 51 was manually annotated 2 times for cluster AI.

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

Info for manual annotations of cluster AP1:
•Start number 50 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:
•Start number 50 was manually annotated 1 time for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 50 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 50 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B1:
•Start number 53 was manually annotated 280 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 34 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 34 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 32 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 10 was manually annotated 1 time for cluster B13.
•Start number 34 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 48 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 46 was manually annotated 6 times for cluster B3.
•Start number 49 was manually annotated 44 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 34 was manually annotated 26 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 20 was manually annotated 1 time for cluster B5.
•Start number 26 was manually annotated 2 times for cluster B5.
•Start number 34 was manually annotated 7 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 15 was manually annotated 1 time for cluster B6.
•Start number 24 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

•Start number 34 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 52 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 11 was manually annotated 1 time for cluster B9.
•Start number 19 was manually annotated 1 time for cluster B9.
•Start number 34 was manually annotated 4 times for cluster B9.

Info for manual annotations of cluster CP:
•Start number 34 was manually annotated 5 times for cluster CP.

Info for manual annotations of cluster DR:
•Start number 51 was manually annotated 19 times for cluster DR.
•Start number 53 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster EG:
•Start number 50 was manually annotated 15 times for cluster EG.
•Start number 52 was manually annotated 35 times for cluster EG.

Info for manual annotations of cluster FT:
•Start number 31 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster W:
•Start number 50 was manually annotated 7 times for cluster W.
•Start number 98 was manually annotated 1 time for cluster W.

Gene Information:

Gene: 39HC_010 Start: 9835, Stop: 11733, Start Num: 15
Candidate Starts for 39HC_010:
(7, 9730), (13, 9832), (Start: 15 @9835 has 1 MA's), (Start: 24 @9865 has 1 MA's), (Start: 34 @9898 has 47 MA's), (41, 9931), (47, 9952), (85, 10183), (107, 10366), (147, 10513), (163, 10606), (171, 10636), (177, 10666), (201, 10807), (206, 10834), (242, 11101), (253, 11161), (255, 11185), (260, 11206), (268, 11245), (281, 11326), (290, 11374), (298, 11455), (300, 11473), (307, 11509), (308, 11512), (311, 11542), (315, 11566), (316, 11569), (321, 11593), (322, 11611), (331, 11671), (333, 11683), (336, 11707),

Gene: 40BC_010 Start: 9835, Stop: 11733, Start Num: 15
Candidate Starts for 40BC_010:
(7, 9730), (13, 9832), (Start: 15 @9835 has 1 MA's), (Start: 24 @9865 has 1 MA's), (Start: 34 @9898 has 47 MA's), (41, 9931), (47, 9952), (85, 10183), (107, 10366), (147, 10513), (163, 10606), (171, 10636), (177, 10666), (201, 10807), (206, 10834), (242, 11101), (253, 11161), (255, 11185), (260, 11206), (268, 11245), (281, 11326), (290, 11374), (298, 11455), (300, 11473), (307, 11509), (308, 11512), (311, 11542), (315, 11566), (316, 11569), (321, 11593), (322, 11611), (331, 11671), (333, 11683), (336, 11707),

Gene: ABU_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for ABU_12:

(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: AWGoat_19 Start: 13739, Stop: 15430, Start Num: 50
Candidate Starts for AWGoat_19:
(33, 13679), (36, 13691), (38, 13694), (Start: 50 @13739 has 33 MA's), (207, 14555), (215, 14609), (219, 14639), (220, 14651), (234, 14735), (235, 14738), (236, 14741), (246, 14810), (256, 14882), (267, 14930), (286, 15047), (296, 15113), (311, 15230), (324, 15317), (326, 15323),

Gene: Abinghost_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for Abinghost_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548), (183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190), (261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580), (316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (349, 12934),

Gene: AbsoluteMadLad_11 Start: 9753, Stop: 11498, Start Num: 53
Candidate Starts for AbsoluteMadLad_11:
(Start: 53 @9753 has 282 MA's), (76, 9900), (147, 10287), (172, 10413), (183, 10464), (201, 10572), (242, 10866), (252, 10923), (260, 10968), (261, 10977), (263, 10986), (284, 11109), (296, 11187), (297, 11196), (306, 11271), (311, 11307), (316, 11334), (319, 11352), (322, 11376), (330, 11430), (331, 11436), (333, 11448),

Gene: Acadian_13 Start: 11375, Stop: 13246, Start Num: 26
Candidate Starts for Acadian_13:
(Start: 26 @11375 has 2 MA's), (Start: 34 @11399 has 47 MA's), (42, 11432), (58, 11483), (62, 11507), (75, 11612), (81, 11642), (82, 11651), (141, 11981), (147, 12014), (158, 12083), (171, 12137), (176, 12161), (177, 12167), (201, 12320), (229, 12503), (242, 12611), (252, 12668), (253, 12671), (260, 12716), (261, 12725), (263, 12734), (267, 12752), (275, 12812), (284, 12857), (288, 12878), (290, 12887), (293, 12914), (297, 12944), (305, 13013), (311, 13055), (315, 13079), (316, 13082), (322, 13124), (328, 13172),

Gene: Adriana_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Adriana_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Aelin_11 Start: 9307, Stop: 11049, Start Num: 53
Candidate Starts for Aelin_11:
(Start: 53 @9307 has 282 MA's), (76, 9454), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987), (333, 10999),

Gene: Ahwei_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Ahwei_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643),

(268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988),
(321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Akoma_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for Akoma_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548),
(183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190),
(261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580),
(316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (345, 12784), (346, 12817),
(349, 12934),

Gene: AksarBAT_11 Start: 9810, Stop: 11495, Start Num: 51
Candidate Starts for AksarBAT_11:
(Start: 51 @9810 has 21 MA's), (70, 9897), (74, 9945), (124, 10182), (141, 10251), (152, 10323), (176,
10413), (193, 10488), (203, 10572), (205, 10581), (223, 10704), (233, 10785), (242, 10851), (252,
10908), (253, 10911), (264, 10983), (270, 11001), (284, 11097), (287, 11109), (290, 11124), (305,
11250), (311, 11292), (312, 11301), (316, 11319), (321, 11343), (341, 11481),

Gene: AlanGrant_13 Start: 12220, Stop: 14025, Start Num: 34
Candidate Starts for AlanGrant_13:
(1, 11848), (2, 11857), (Start: 34 @12220 has 47 MA's), (41, 12250), (47, 12271), (58, 12292), (83,
12475), (104, 12649), (141, 12769), (158, 12868), (165, 12895), (172, 12925), (176, 12946), (177,
12952), (178, 12955), (210, 13150), (225, 13249), (228, 13273), (233, 13321), (242, 13387), (260,
13492), (263, 13510), (268, 13531), (281, 13612), (290, 13660), (303, 13771), (305, 13786), (307,
13795), (311, 13828), (316, 13855), (322, 13897), (326, 13921), (330, 13951), (333, 13969),

Gene: Aleia_12 Start: 9324, Stop: 11069, Start Num: 53
Candidate Starts for Aleia_12:
(Start: 53 @9324 has 282 MA's), (147, 9858), (172, 9984), (183, 10035), (201, 10143), (242, 10437),
(252, 10494), (260, 10539), (261, 10548), (263, 10557), (284, 10680), (296, 10758), (297, 10767),
(306, 10842), (311, 10878), (316, 10905), (319, 10923), (322, 10947), (330, 11001), (331, 11007),
(333, 11019),

Gene: Allegro_15 Start: 12411, Stop: 14441, Start Num: 48
Candidate Starts for Allegro_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12633), (99, 12747), (141, 12912),
(152, 12984), (183, 13101), (194, 13161), (197, 13179), (201, 13233), (214, 13314), (252, 13587),
(253, 13590), (263, 13656), (302, 13914), (311, 13974), (312, 13983), (316, 14001), (321, 14025),
(330, 14097), (338, 14145), (347, 14289), (349, 14328), (353, 14385), (354, 14421), (355, 14427),

Gene: AltPhacts_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for AltPhacts_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577),
(242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192),
(297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435),
(331, 11441), (333, 11453),

Gene: Altheas_27 Start: 14496, Stop: 16319, Start Num: 50
Candidate Starts for Altheas_27:
(Start: 50 @14496 has 33 MA's), (55, 14508), (66, 14568), (71, 14607), (153, 15129), (171, 15204),
(180, 15252), (187, 15276), (188, 15282), (205, 15399), (219, 15498), (232, 15579), (247, 15672),
(249, 15687), (254, 15735), (259, 15759), (265, 15792), (270, 15807), (272, 15831), (280, 15879),
(288, 15921), (304, 16056), (305, 16068), (307, 16077), (316, 16137), (331, 16239),

Gene: Altwerkus_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Altwerkus_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: AluminumJesus_23 Start: 13874, Stop: 15679, Start Num: 52
Candidate Starts for AluminumJesus_23:
(Start: 52 @13874 has 36 MA's), (55, 13883), (71, 13982), (112, 14288), (153, 14489), (157, 14504),
(171, 14564), (180, 14612), (188, 14642), (204, 14756), (205, 14759), (206, 14765), (219, 14858),
(232, 14939), (247, 15032), (249, 15047), (254, 15095), (259, 15119), (270, 15167), (272, 15191),
(280, 15239), (288, 15281), (304, 15416), (305, 15428), (307, 15437), (316, 15497), (327, 15566),
(331, 15599),

Gene: Amo99_45 Start: 23180, Stop: 24970, Start Num: 34
Candidate Starts for Amo99_45:
(18, 23120), (30, 23174), (Start: 34 @23180 has 47 MA's), (135, 23717), (141, 23750), (143, 23762),
(168, 23882), (170, 23885), (179, 23942), (207, 24095), (209, 24101), (212, 24128), (218, 24170),
(258, 24428), (260, 24431), (269, 24473), (270, 24476), (276, 24530), (277, 24536), (294, 24632),
(296, 24647), (297, 24656), (326, 24881), (331, 24917), (333, 24929), (336, 24953),

Gene: AnClar_11 Start: 10669, Stop: 12366, Start Num: 51
Candidate Starts for AnClar_11:
(Start: 51 @10669 has 21 MA's), (121, 11035), (127, 11050), (141, 11110), (152, 11182), (176, 11272),
(196, 11362), (205, 11440), (242, 11710), (252, 11767), (261, 11824), (263, 11833), (281, 11935),
(284, 11956), (288, 11974), (311, 12151), (314, 12169), (315, 12175), (316, 12178), (321, 12202),
(325, 12241), (330, 12274), (331, 12280),

Gene: AnarQue_13 Start: 11332, Stop: 13026, Start Num: 51
Candidate Starts for AnarQue_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11668), (141, 11779), (145, 11803),
(152, 11851), (176, 11941), (203, 12100), (205, 12109), (212, 12157), (224, 12235), (228, 12268),
(233, 12316), (242, 12382), (251, 12430), (252, 12439), (253, 12442), (264, 12514), (270, 12532),
(275, 12583), (284, 12628), (287, 12640), (290, 12655), (305, 12781), (311, 12823), (315, 12847),
(316, 12850), (319, 12868),

Gene: Anderson_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Anderson_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Andre_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Andre_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: AngelCake_12 Start: 9754, Stop: 11499, Start Num: 53

Candidate Starts for AngelCake_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Antihero_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Antihero_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643), (268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988), (321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Antonia_11 Start: 9307, Stop: 11049, Start Num: 53
Candidate Starts for Antonia_11:
(Start: 53 @9307 has 282 MA's), (76, 9454), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987), (333, 10999),

Gene: Aonishiki_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Aonishiki_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Apex_12 Start: 11654, Stop: 13435, Start Num: 34
Candidate Starts for Apex_12:
(Start: 34 @11654 has 47 MA's), (58, 11720), (81, 11870), (83, 11903), (86, 11933), (104, 12065), (117, 12098), (141, 12194), (158, 12290), (165, 12317), (171, 12344), (172, 12347), (176, 12368), (201, 12515), (224, 12662), (242, 12809), (253, 12869), (255, 12893), (258, 12911), (261, 12923), (263, 12932), (268, 12953), (281, 13034), (290, 13082), (297, 13139), (300, 13181), (305, 13208), (308, 13220), (311, 13250), (316, 13277), (321, 13301), (322, 13319), (326, 13343), (330, 13373), (331, 13379),

Gene: Apizium_11 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Apizium_11:
(Start: 53 @9462 has 282 MA's), (147, 9996), (172, 10122), (183, 10173), (201, 10281), (242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896), (297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139), (331, 11145), (333, 11157),

Gene: Arbiter_15 Start: 12501, Stop: 14528, Start Num: 48
Candidate Starts for Arbiter_15:
(Start: 48 @12501 has 37 MA's), (74, 12645), (77, 12666), (84, 12720), (90, 12747), (99, 12834), (141, 12999), (152, 13071), (183, 13188), (194, 13248), (197, 13266), (201, 13320), (214, 13401), (252, 13674), (253, 13677), (263, 13743), (302, 14001), (311, 14061), (312, 14070), (316, 14088), (321, 14112), (330, 14184), (338, 14232), (347, 14376), (349, 14415), (353, 14472), (354, 14508), (355, 14514),

Gene: Ares_15 Start: 12411, Stop: 14441, Start Num: 48

Candidate Starts for Ares_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12633), (99, 12747), (141, 12912),
(152, 12984), (183, 13101), (194, 13161), (197, 13179), (201, 13233), (214, 13314), (252, 13587),
(253, 13590), (263, 13656), (302, 13914), (311, 13974), (312, 13983), (316, 14001), (321, 14025),
(330, 14097), (338, 14145), (347, 14289), (349, 14328), (353, 14385), (354, 14421), (355, 14427),

Gene: Argie_10 Start: 10843, Stop: 12906, Start Num: 50
Candidate Starts for Argie_10:
(Start: 50 @10843 has 33 MA's), (57, 10855), (61, 10882), (70, 10936), (74, 10984), (87, 11089),
(Start: 98 @11206 has 1 MA's), (118, 11278), (149, 11413), (152, 11428), (159, 11452), (166, 11482),
(177, 11527), (181, 11548), (198, 11656), (201, 11674), (211, 11743), (212, 11749), (226, 11842),
(249, 12001), (252, 12025), (256, 12055), (263, 12091), (270, 12118), (281, 12193), (288, 12232),
(293, 12268), (297, 12298), (306, 12373), (315, 12433), (330, 12532), (331, 12538), (342, 12601),
(348, 12757), (351, 12808), (352, 12814), (356, 12898),

Gene: Ashraf_11 Start: 9304, Stop: 11049, Start Num: 53
Candidate Starts for Ashraf_11:
(Start: 53 @9304 has 282 MA's), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417),
(252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747),
(306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987),
(333, 10999),

Gene: Athena_15 Start: 11789, Stop: 13804, Start Num: 49
Candidate Starts for Athena_15:
(Start: 49 @11789 has 44 MA's), (57, 11804), (70, 11882), (74, 11930), (141, 12287), (145, 12311),
(183, 12476), (192, 12524), (201, 12596), (214, 12677), (221, 12731), (252, 12950), (253, 12953),
(261, 13007), (271, 13055), (281, 13118), (284, 13139), (285, 13142), (311, 13334), (312, 13343),
(316, 13361), (319, 13379), (320, 13382), (325, 13424), (330, 13457), (349, 13697),

Gene: Audrey_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for Audrey_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548),
(183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190),
(261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580),
(316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (349, 12934),

Gene: Austelle_13 Start: 12110, Stop: 13888, Start Num: 34
Candidate Starts for Austelle_13:
(Start: 34 @12110 has 47 MA's), (58, 12176), (81, 12326), (83, 12359), (86, 12389), (104, 12518),
(117, 12551), (141, 12647), (158, 12743), (165, 12770), (171, 12797), (172, 12800), (176, 12821),
(201, 12968), (224, 13115), (242, 13262), (253, 13322), (255, 13346), (258, 13364), (263, 13385),
(268, 13406), (281, 13487), (290, 13535), (297, 13592), (300, 13634), (305, 13661), (308, 13673),
(311, 13703), (316, 13730), (321, 13754), (322, 13772), (326, 13796), (330, 13826), (331, 13832),

Gene: Axumite_11 Start: 9837, Stop: 11540, Start Num: 51
Candidate Starts for Axumite_11:
(Start: 51 @9837 has 21 MA's), (74, 9972), (109, 10188), (121, 10209), (141, 10284), (150, 10347),
(176, 10446), (190, 10506), (203, 10605), (242, 10884), (252, 10941), (263, 11007), (281, 11109),
(284, 11130), (288, 11148), (302, 11265), (311, 11325), (316, 11352), (321, 11376), (324, 11412),
(330, 11448), (331, 11454), (344, 11529),

Gene: BabyDotz_24 Start: 14116, Stop: 15948, Start Num: 52
Candidate Starts for BabyDotz_24:

(Start: 52 @14116 has 36 MA's), (55, 14125), (71, 14224), (122, 14590), (153, 14758), (157, 14773), (171, 14833), (180, 14881), (181, 14887), (188, 14911), (204, 15025), (205, 15028), (206, 15034), (219, 15127), (232, 15208), (247, 15301), (249, 15316), (254, 15364), (259, 15388), (270, 15436), (272, 15460), (280, 15508), (288, 15550), (304, 15685), (305, 15697), (307, 15706), (316, 15766), (327, 15835), (331, 15868),

Gene: BaconCheese_28 Start: 15365, Stop: 17197, Start Num: 52
Candidate Starts for BaconCheese_28:
(Start: 52 @15365 has 36 MA's), (55, 15374), (71, 15473), (122, 15839), (153, 16007), (157, 16022), (171, 16082), (180, 16130), (181, 16136), (188, 16160), (204, 16274), (205, 16277), (206, 16283), (219, 16376), (232, 16457), (247, 16550), (249, 16565), (254, 16613), (259, 16637), (270, 16685), (272, 16709), (280, 16757), (288, 16799), (304, 16934), (305, 16946), (307, 16955), (316, 17015), (327, 17084), (331, 17117),

Gene: Badfish_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Badfish_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Baee_13 Start: 11353, Stop: 13248, Start Num: 20
Candidate Starts for Baee_13:
(Start: 20 @11353 has 1 MA's), (Start: 34 @11407 has 47 MA's), (42, 11440), (58, 11491), (62, 11515), (69, 11557), (75, 11620), (76, 11629), (82, 11659), (141, 11983), (147, 12016), (158, 12085), (171, 12139), (177, 12169), (198, 12304), (201, 12322), (205, 12343), (229, 12505), (239, 12598), (242, 12613), (252, 12670), (253, 12673), (260, 12718), (261, 12727), (263, 12736), (268, 12757), (273, 12802), (275, 12814), (284, 12859), (288, 12880), (290, 12889), (297, 12946), (305, 13015), (311, 13057), (312, 13066), (315, 13081), (316, 13084), (321, 13108), (322, 13126), (328, 13174),

Gene: Baloo_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for Baloo_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548), (183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190), (261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580), (316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (345, 12784), (346, 12817), (349, 12934),

Gene: Bananafish_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Bananafish_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: Banjo_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Banjo_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Basato_13 Start: 9991, Stop: 11736, Start Num: 53
Candidate Starts for Basato_13:
(Start: 53 @9991 has 282 MA's), (76, 10138), (147, 10525), (172, 10651), (183, 10702), (201, 10810), (242, 11104), (252, 11161), (260, 11206), (261, 11215), (263, 11224), (284, 11347), (296, 11425), (297, 11434), (306, 11509), (311, 11545), (316, 11572), (319, 11590), (322, 11614), (330, 11668), (331, 11674), (333, 11686),

Gene: BatteryCK_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for BatteryCK_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423), (252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753), (306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993), (333, 11005),

Gene: Beaglebox_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Beaglebox_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Ben11_13 Start: 10850, Stop: 12865, Start Num: 49
Candidate Starts for Ben11_13:
(Start: 46 @10838 has 6 MA's), (Start: 49 @10850 has 44 MA's), (57, 10865), (70, 10943), (74, 10991), (141, 11348), (145, 11372), (183, 11537), (192, 11585), (201, 11657), (214, 11738), (221, 11792), (252, 12011), (253, 12014), (261, 12068), (271, 12116), (281, 12179), (284, 12200), (285, 12203), (311, 12395), (312, 12404), (316, 12422), (319, 12440), (320, 12443), (325, 12485), (330, 12518), (345, 12608), (346, 12641), (349, 12758),

Gene: Bernardo_14 Start: 11013, Stop: 13040, Start Num: 46
Candidate Starts for Bernardo_14:
(Start: 46 @11013 has 6 MA's), (Start: 49 @11025 has 44 MA's), (57, 11040), (70, 11118), (74, 11166), (141, 11523), (145, 11547), (183, 11712), (192, 11760), (201, 11832), (214, 11913), (221, 11967), (252, 12186), (253, 12189), (261, 12243), (271, 12291), (281, 12354), (284, 12375), (285, 12378), (311, 12570), (312, 12579), (316, 12597), (319, 12615), (320, 12618), (325, 12660), (330, 12693), (345, 12783), (346, 12816), (349, 12933),

Gene: BiggityBass_10 Start: 9650, Stop: 11347, Start Num: 51
Candidate Starts for BiggityBass_10:
(Start: 51 @9650 has 21 MA's), (127, 10031), (141, 10091), (152, 10163), (205, 10421), (242, 10691), (252, 10748), (261, 10805), (263, 10814), (281, 10916), (284, 10937), (288, 10955), (311, 11132), (314, 11150), (316, 11159), (321, 11183), (325, 11222), (331, 11261),

Gene: BirdInFrench_24 Start: 12993, Stop: 14771, Start Num: 50
Candidate Starts for BirdInFrench_24:
(Start: 50 @12993 has 33 MA's), (55, 13005), (97, 13350), (133, 13464), (153, 13590), (171, 13656), (180, 13704), (188, 13734), (219, 13947), (232, 14028), (233, 14037), (245, 14115), (247, 14121), (249, 14136), (272, 14280), (278, 14322), (288, 14373), (305, 14520), (307, 14529), (328, 14679), (331, 14691), (340, 14751),

Gene: BirdsNest_17 Start: 10414, Stop: 12351, Start Num: 10
Candidate Starts for BirdsNest_17:

(Start: 10 @10414 has 1 MA's), (12, 10432), (17, 10465), (27, 10501), (Start: 34 @10525 has 47 MA's), (42, 10555), (57, 10597), (107, 10984), (123, 11017), (137, 11062), (147, 11122), (165, 11218), (171, 11245), (201, 11425), (229, 11608), (233, 11650), (242, 11716), (252, 11773), (253, 11776), (268, 11860), (284, 11962), (288, 11983), (303, 12103), (305, 12118), (311, 12160), (316, 12187), (321, 12211), (322, 12229), (329, 12280), (330, 12283), (333, 12301), (336, 12325),

Gene: Bishoperium_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Bishoperium_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Blab_23 Start: 13751, Stop: 15577, Start Num: 52
Candidate Starts for Blab_23:
(Start: 52 @13751 has 36 MA's), (55, 13760), (71, 13859), (112, 14186), (153, 14387), (157, 14402), (171, 14462), (180, 14510), (188, 14540), (204, 14654), (205, 14657), (206, 14663), (219, 14756), (232, 14837), (247, 14930), (249, 14945), (254, 14993), (259, 15017), (270, 15065), (272, 15089), (280, 15137), (288, 15179), (304, 15314), (307, 15335), (316, 15395), (327, 15464), (331, 15497),

Gene: BlackStallion_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for BlackStallion_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Blackpen_13 Start: 10824, Stop: 12506, Start Num: 51
Candidate Starts for Blackpen_13:
(Start: 51 @10824 has 21 MA's), (70, 10911), (74, 10959), (101, 11148), (141, 11259), (145, 11283), (152, 11331), (176, 11421), (203, 11580), (205, 11589), (212, 11637), (224, 11715), (228, 11748), (233, 11796), (242, 11862), (251, 11910), (252, 11919), (253, 11922), (264, 11994), (270, 12012), (275, 12063), (284, 12108), (287, 12120), (290, 12135), (305, 12261), (311, 12303), (315, 12327), (316, 12330), (319, 12348),

Gene: BlacksBerry_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for BlacksBerry_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Blocker23_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for Blocker23_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029), (152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704), (253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142), (330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: BlueHusk_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for BlueHusk_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188),

(297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431),
(331, 11437), (333, 11449),

Gene: Bluephacebaby_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Bluephacebaby_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: BobRoss2024_10 Start: 9683, Stop: 11377, Start Num: 51
Candidate Starts for BobRoss2024_10:
(Start: 51 @9683 has 21 MA's), (70, 9770), (141, 10109), (152, 10181), (176, 10280), (187, 10328),
(205, 10451), (210, 10487), (212, 10499), (242, 10721), (252, 10778), (263, 10844), (270, 10871),
(281, 10946), (284, 10967), (302, 11102), (307, 11129), (311, 11162), (312, 11171), (316, 11189),
(319, 11207), (331, 11291),

Gene: BobbyK_12 Start: 11473, Stop: 13251, Start Num: 34
Candidate Starts for BobbyK_12:
(Start: 34 @11473 has 47 MA's), (58, 11539), (81, 11689), (83, 11722), (86, 11752), (104, 11881),
(117, 11914), (141, 12010), (158, 12106), (165, 12133), (171, 12160), (172, 12163), (176, 12184),
(201, 12331), (224, 12478), (242, 12625), (253, 12685), (255, 12709), (258, 12727), (263, 12748),
(268, 12769), (281, 12850), (290, 12898), (297, 12955), (300, 12997), (305, 13024), (308, 13036),
(311, 13066), (316, 13093), (321, 13117), (322, 13135), (326, 13159), (330, 13189), (331, 13195),

Gene: Boehler_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Boehler_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Boise_16 Start: 11444, Stop: 13249, Start Num: 31
Candidate Starts for Boise_16:
(Start: 31 @11444 has 1 MA's), (44, 11492), (68, 11582), (94, 11834), (95, 11849), (116, 11942), (146,
12053), (148, 12062), (161, 12131), (173, 12176), (181, 12218), (199, 12323), (209, 12380), (219,
12458), (233, 12548), (235, 12557), (249, 12647), (267, 12749), (286, 12866), (296, 12929), (308,
13013), (316, 13070), (317, 13082), (326, 13136),

Gene: BoogieWoogie_11 Start: 9461, Stop: 11209, Start Num: 53
Candidate Starts for BoogieWoogie_11:
(Start: 53 @9461 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577),
(252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907),
(306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147),
(333, 11159),

Gene: Boyle_15 Start: 12529, Stop: 14559, Start Num: 48
Candidate Starts for Boyle_15:
(Start: 48 @12529 has 37 MA's), (74, 12673), (77, 12694), (84, 12748), (90, 12775), (99, 12862), (141,
13030), (152, 13102), (183, 13219), (194, 13279), (197, 13297), (201, 13351), (214, 13432), (252,
13705), (253, 13708), (263, 13774), (302, 14032), (311, 14092), (312, 14101), (316, 14119), (321,
14143), (330, 14215), (338, 14263), (347, 14407), (349, 14446), (353, 14503), (354, 14539), (355,
14545),

Gene: Briakila_14 Start: 11791, Stop: 13806, Start Num: 49
Candidate Starts for Briakila_14:
(Start: 46 @11779 has 6 MA's), (Start: 49 @11791 has 44 MA's), (57, 11806), (70, 11884), (74, 11932),
(141, 12289), (145, 12313), (183, 12478), (192, 12526), (201, 12598), (214, 12679), (221, 12733),
(252, 12952), (253, 12955), (261, 13009), (271, 13057), (281, 13120), (284, 13141), (285, 13144),
(311, 13336), (312, 13345), (316, 13363), (319, 13381), (320, 13384), (325, 13426), (330, 13459),
(345, 13549), (346, 13582), (349, 13699),

Gene: Brilliant_12 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Brilliant_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9997), (172, 10123), (183, 10174), (201, 10282),
(242, 10576), (252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897),
(297, 10906), (306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140),
(331, 11146), (333, 11158),

Gene: BrownCNA_13 Start: 11727, Stop: 13505, Start Num: 34
Candidate Starts for BrownCNA_13:
(Start: 34 @11727 has 47 MA's), (58, 11793), (81, 11943), (83, 11976), (86, 12006), (104, 12135),
(117, 12168), (141, 12264), (158, 12360), (165, 12387), (171, 12414), (172, 12417), (176, 12438),
(201, 12585), (224, 12732), (242, 12879), (253, 12939), (255, 12963), (258, 12981), (263, 13002),
(268, 13023), (281, 13104), (290, 13152), (297, 13209), (300, 13251), (305, 13278), (308, 13290),
(311, 13320), (316, 13347), (321, 13371), (322, 13389), (326, 13413), (330, 13443), (331, 13449),

Gene: Brownie5_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for Brownie5_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029),
(152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704),
(253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142),
(330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: BruhMoment_21 Start: 13658, Stop: 15379, Start Num: 50
Candidate Starts for BruhMoment_21:
(33, 13598), (Start: 50 @13658 has 33 MA's), (146, 14171), (161, 14249), (164, 14264), (215, 14558),
(219, 14588), (234, 14684), (235, 14687), (236, 14690), (246, 14759), (267, 14879), (274, 14936),
(281, 14963), (286, 14996), (301, 15116), (309, 15170), (312, 15188), (323, 15254), (326, 15272),
(330, 15302),

Gene: Buckeye_12 Start: 9759, Stop: 11504, Start Num: 53
Candidate Starts for Buckeye_12:
(Start: 53 @9759 has 282 MA's), (76, 9906), (147, 10293), (172, 10419), (183, 10470), (201, 10578),
(242, 10872), (252, 10929), (260, 10974), (261, 10983), (263, 10992), (284, 11115), (296, 11193),
(297, 11202), (306, 11277), (311, 11313), (316, 11340), (319, 11358), (322, 11382), (330, 11436),
(331, 11442), (333, 11454),

Gene: Burr_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Burr_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: CRB2_15 Start: 12281, Stop: 14131, Start Num: 34

Candidate Starts for CRB2_15:
(18, 12224), (Start: 34 @12281 has 47 MA's), (62, 12386), (141, 12872), (165, 13001), (167, 13010), (172, 13031), (178, 13061), (196, 13151), (201, 13208), (206, 13235), (233, 13433), (236, 13445), (242, 13499), (252, 13556), (261, 13613), (263, 13622), (268, 13643), (281, 13724), (284, 13745), (288, 13763), (305, 13898), (311, 13940), (312, 13949), (316, 13967), (321, 13991), (322, 14009), (326, 14033), (330, 14063), (331, 14069), (333, 14081),

Gene: CaiB_13 Start: 11332, Stop: 13014, Start Num: 51
Candidate Starts for CaiB_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11656), (141, 11767), (145, 11791), (152, 11839), (176, 11929), (203, 12088), (205, 12097), (212, 12145), (224, 12223), (228, 12256), (233, 12304), (242, 12370), (251, 12418), (252, 12427), (253, 12430), (264, 12502), (270, 12520), (275, 12571), (284, 12616), (287, 12628), (290, 12643), (305, 12769), (311, 12811), (315, 12835), (316, 12838), (319, 12856),

Gene: Calamitous_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Calamitous_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: CamL_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for CamL_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: CampRoach_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for CampRoach_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: CandC_23 Start: 12598, Stop: 14376, Start Num: 50
Candidate Starts for CandC_23:
(Start: 50 @12598 has 33 MA's), (55, 12610), (97, 12952), (133, 13069), (153, 13195), (180, 13309), (188, 13339), (219, 13552), (232, 13633), (233, 13642), (245, 13720), (247, 13726), (249, 13741), (272, 13885), (278, 13927), (288, 13978), (305, 14125), (307, 14134), (328, 14284), (331, 14296),

Gene: Cannibal_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Cannibal_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Carthage_11 Start: 9429, Stop: 11177, Start Num: 53
Candidate Starts for Carthage_11:

(Start: 53 @9429 has 282 MA's), (76, 9576), (147, 9966), (172, 10092), (183, 10143), (201, 10251), (242, 10545), (252, 10602), (260, 10647), (261, 10656), (263, 10665), (284, 10788), (296, 10866), (297, 10875), (306, 10950), (311, 10986), (316, 11013), (319, 11031), (322, 11055), (330, 11109), (331, 11115), (333, 11127),

Gene: Casbah_13 Start: 10878, Stop: 12893, Start Num: 49
Candidate Starts for Casbah_13:
(Start: 49 @10878 has 44 MA's), (57, 10893), (70, 10971), (74, 11019), (141, 11376), (145, 11400), (183, 11565), (192, 11613), (201, 11685), (214, 11766), (221, 11820), (252, 12039), (253, 12042), (261, 12096), (271, 12144), (281, 12207), (284, 12228), (285, 12231), (311, 12423), (312, 12432), (316, 12450), (319, 12468), (320, 12471), (325, 12513), (330, 12546), (345, 12636), (346, 12669), (349, 12786),

Gene: Casend_26 Start: 14462, Stop: 16294, Start Num: 52
Candidate Starts for Casend_26:
(Start: 52 @14462 has 36 MA's), (55, 14471), (71, 14570), (122, 14936), (153, 15104), (157, 15119), (171, 15179), (180, 15227), (181, 15233), (188, 15257), (205, 15374), (206, 15380), (219, 15473), (232, 15554), (247, 15647), (249, 15662), (254, 15710), (259, 15734), (270, 15782), (272, 15806), (280, 15854), (288, 15896), (304, 16031), (305, 16043), (307, 16052), (316, 16112), (327, 16181), (331, 16214),

Gene: Caspiboi_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Caspiboi_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Causa_19 Start: 13260, Stop: 15380, Start Num: 51
Candidate Starts for Causa_19:
(Start: 51 @13260 has 21 MA's), (Start: 56 @13275 has 1 MA's), (126, 13725), (141, 13788), (148, 13824), (171, 13926), (201, 14118), (214, 14199), (231, 14313), (242, 14394), (252, 14451), (263, 14514), (268, 14535), (291, 14679), (305, 14793), (311, 14835), (316, 14862), (322, 14904), (330, 14958), (350, 15210),

Gene: Cepens_9 Start: 10582, Stop: 12645, Start Num: 50
Candidate Starts for Cepens_9:
(Start: 50 @10582 has 33 MA's), (57, 10594), (61, 10621), (70, 10675), (74, 10723), (87, 10828), (Start: 98 @10945 has 1 MA's), (118, 11017), (149, 11152), (152, 11167), (159, 11191), (166, 11221), (177, 11266), (181, 11287), (198, 11395), (201, 11413), (211, 11482), (212, 11488), (226, 11581), (242, 11707), (249, 11740), (252, 11764), (256, 11794), (263, 11830), (270, 11857), (281, 11932), (288, 11971), (293, 12007), (297, 12037), (306, 12112), (315, 12172), (330, 12271), (331, 12277), (342, 12340), (348, 12496), (351, 12547), (352, 12553), (356, 12637),

Gene: ChaChing_14 Start: 11041, Stop: 13056, Start Num: 49
Candidate Starts for ChaChing_14:
(Start: 49 @11041 has 44 MA's), (57, 11056), (70, 11134), (74, 11182), (141, 11539), (145, 11563), (183, 11728), (192, 11776), (201, 11848), (214, 11929), (221, 11983), (252, 12202), (253, 12205), (261, 12259), (271, 12307), (281, 12370), (284, 12391), (285, 12394), (311, 12586), (312, 12595), (316, 12613), (319, 12631), (320, 12634), (325, 12676), (330, 12709), (345, 12799), (346, 12832), (349, 12949),

Gene: Chaelin_11 Start: 9418, Stop: 11163, Start Num: 53

Candidate Starts for Chaelin_11:
(Start: 53 @9418 has 282 MA's), (147, 9952), (172, 10078), (183, 10129), (201, 10237), (242, 10531), (252, 10588), (260, 10633), (261, 10642), (263, 10651), (284, 10774), (296, 10852), (297, 10861), (306, 10936), (311, 10972), (316, 10999), (319, 11017), (322, 11041), (330, 11095), (331, 11101), (333, 11113),

Gene: Chah_12 Start: 9755, Stop: 11503, Start Num: 53
Candidate Starts for Chah_12:
(Start: 53 @9755 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: Chalmers_14 Start: 11834, Stop: 13849, Start Num: 49
Candidate Starts for Chalmers_14:
(Start: 49 @11834 has 44 MA's), (57, 11849), (70, 11927), (74, 11975), (141, 12332), (145, 12356), (183, 12521), (192, 12569), (201, 12641), (214, 12722), (221, 12776), (252, 12995), (253, 12998), (261, 13052), (271, 13100), (281, 13163), (284, 13184), (285, 13187), (311, 13379), (312, 13388), (316, 13406), (319, 13424), (320, 13427), (325, 13469), (330, 13502), (345, 13592), (346, 13625), (349, 13742),

Gene: Chandler_14 Start: 11788, Stop: 13815, Start Num: 46
Candidate Starts for Chandler_14:
(43, 11776), (Start: 46 @11788 has 6 MA's), (Start: 49 @11800 has 44 MA's), (57, 11815), (70, 11893), (74, 11941), (141, 12298), (145, 12322), (183, 12487), (192, 12535), (201, 12607), (214, 12688), (221, 12742), (252, 12961), (253, 12964), (261, 13018), (271, 13066), (281, 13129), (284, 13150), (285, 13153), (311, 13345), (312, 13354), (316, 13372), (319, 13390), (320, 13393), (325, 13435), (330, 13468), (345, 13558), (346, 13591), (349, 13708),

Gene: Charles1_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Charles1_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: CharlieGBrown_11 Start: 9328, Stop: 11073, Start Num: 53
Candidate Starts for CharlieGBrown_11:
(Start: 53 @9328 has 282 MA's), (147, 9862), (172, 9988), (183, 10039), (201, 10147), (242, 10441), (252, 10498), (260, 10543), (261, 10552), (263, 10561), (284, 10684), (296, 10762), (297, 10771), (306, 10846), (311, 10882), (316, 10909), (319, 10927), (322, 10951), (330, 11005), (331, 11011), (333, 11023),

Gene: CharlottesWeb_11 Start: 9894, Stop: 11576, Start Num: 51
Candidate Starts for CharlottesWeb_11:
(41, 9858), (42, 9861), (Start: 51 @9894 has 21 MA's), (74, 10029), (92, 10143), (109, 10227), (127, 10263), (141, 10323), (176, 10485), (190, 10545), (203, 10644), (210, 10689), (233, 10857), (242, 10923), (252, 10980), (263, 11046), (268, 11067), (270, 11073), (275, 11124), (281, 11148), (284, 11169), (288, 11187), (290, 11196), (297, 11253), (306, 11328), (311, 11364), (314, 11382), (316, 11391),

Gene: CheetO_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for CheetO_12:

(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Chentzyk_13 Start: 10896, Stop: 12911, Start Num: 49
Candidate Starts for Chentzyk_13:
(Start: 46 @10884 has 6 MA's), (Start: 49 @10896 has 44 MA's), (57, 10911), (70, 10989), (74, 11037), (141, 11394), (145, 11418), (183, 11583), (192, 11631), (201, 11703), (214, 11784), (221, 11838), (252, 12057), (253, 12060), (261, 12114), (271, 12162), (281, 12225), (284, 12246), (285, 12249), (311, 12441), (312, 12450), (316, 12468), (319, 12486), (320, 12489), (325, 12531), (330, 12564), (345, 12654), (346, 12687), (349, 12804),

Gene: Cher_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Cher_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Childish_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Childish_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Chipette_13 Start: 9992, Stop: 11737, Start Num: 53
Candidate Starts for Chipette_13:
(Start: 53 @9992 has 282 MA's), (147, 10526), (172, 10652), (183, 10703), (201, 10811), (242, 11105), (252, 11162), (260, 11207), (261, 11216), (263, 11225), (284, 11348), (296, 11426), (297, 11435), (306, 11510), (311, 11546), (316, 11573), (319, 11591), (322, 11615), (330, 11669), (331, 11675), (333, 11687),

Gene: Chorkpop_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Chorkpop_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: ChrisnMich_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for ChrisnMich_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643), (268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988), (321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Chuni_11 Start: 9773, Stop: 11518, Start Num: 53
Candidate Starts for Chuni_11:
(Start: 53 @9773 has 282 MA's), (147, 10307), (172, 10433), (183, 10484), (201, 10592), (242, 10886), (252, 10943), (260, 10988), (261, 10997), (263, 11006), (284, 11129), (296, 11207), (297, 11216),

(306, 11291), (311, 11327), (316, 11354), (319, 11372), (322, 11396), (330, 11450), (331, 11456),
(333, 11468),

Gene: Chunky_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Chunky_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: Chute_11 Start: 9772, Stop: 11517, Start Num: 53
Candidate Starts for Chute_11:
(Start: 53 @9772 has 282 MA's), (147, 10306), (172, 10432), (183, 10483), (201, 10591), (242, 10885),
(252, 10942), (260, 10987), (261, 10996), (263, 11005), (284, 11128), (296, 11206), (297, 11215),
(306, 11290), (311, 11326), (316, 11353), (319, 11371), (322, 11395), (330, 11449), (331, 11455),
(333, 11467),

Gene: Clawz_44 Start: 23098, Stop: 24915, Start Num: 34
Candidate Starts for Clawz_44:
(18, 23038), (30, 23092), (Start: 34 @23098 has 47 MA's), (59, 23191), (135, 23647), (141, 23680),
(143, 23692), (148, 23716), (168, 23812), (170, 23815), (179, 23872), (207, 24025), (209, 24031),
(212, 24058), (218, 24100), (229, 24154), (258, 24358), (260, 24361), (269, 24403), (270, 24406),
(275, 24457), (276, 24460), (287, 24514), (290, 24529), (294, 24562), (297, 24586), (312, 24727),
(331, 24847), (333, 24859),

Gene: CloverMinnie_13 Start: 11332, Stop: 13014, Start Num: 51
Candidate Starts for CloverMinnie_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11656), (141, 11767), (145, 11791),
(152, 11839), (176, 11929), (203, 12088), (205, 12097), (212, 12145), (224, 12223), (228, 12256),
(233, 12304), (242, 12370), (251, 12418), (252, 12427), (253, 12430), (264, 12502), (270, 12520),
(275, 12571), (284, 12616), (287, 12628), (290, 12643), (305, 12769), (311, 12811), (315, 12835),
(316, 12838), (319, 12856),

Gene: Cobra_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Cobra_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: Coffee_15 Start: 12528, Stop: 14555, Start Num: 48
Candidate Starts for Coffee_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12747), (90, 12774), (99, 12861), (141,
13026), (152, 13098), (183, 13215), (194, 13275), (197, 13293), (201, 13347), (214, 13428), (252,
13701), (253, 13704), (263, 13770), (302, 14028), (311, 14088), (312, 14097), (316, 14115), (321,
14139), (330, 14211), (338, 14259), (347, 14403), (349, 14442), (353, 14499), (354, 14535), (355,
14541),

Gene: Colbert_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Colbert_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573),
(242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188),
(297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431),

(331, 11437), (333, 11449),

Gene: ColdSoup_45 Start: 23180, Stop: 24970, Start Num: 34
Candidate Starts for ColdSoup_45:
(18, 23120), (30, 23174), (Start: 34 @23180 has 47 MA's), (135, 23717), (141, 23750), (143, 23762),
(168, 23882), (170, 23885), (179, 23942), (207, 24095), (209, 24101), (212, 24128), (218, 24170),
(258, 24428), (260, 24431), (269, 24473), (270, 24476), (276, 24530), (277, 24536), (294, 24632),
(296, 24647), (297, 24656), (326, 24881), (331, 24917), (333, 24929), (336, 24953),

Gene: Coldpizza_13 Start: 11760, Stop: 13478, Start Num: 53
Candidate Starts for Coldpizza_13:
(Start: 53 @11760 has 282 MA's), (70, 11841), (74, 11889), (141, 12201), (176, 12363), (201, 12501),
(203, 12513), (242, 12795), (252, 12852), (281, 13020), (284, 13041), (288, 13059), (305, 13194),
(311, 13236), (316, 13263), (333, 13377), (337, 13407), (343, 13437),

Gene: Coletti_12 Start: 9772, Stop: 11517, Start Num: 53
Candidate Starts for Coletti_12:
(Start: 53 @9772 has 282 MA's), (147, 10306), (172, 10432), (183, 10483), (201, 10591), (242, 10885),
(252, 10942), (260, 10987), (261, 10996), (263, 11005), (284, 11128), (296, 11206), (297, 11215),
(306, 11290), (311, 11326), (316, 11353), (319, 11371), (322, 11395), (330, 11449), (331, 11455),
(333, 11467),

Gene: Compostia_15 Start: 11459, Stop: 13474, Start Num: 49
Candidate Starts for Compostia_15:
(Start: 46 @11447 has 6 MA's), (Start: 49 @11459 has 44 MA's), (57, 11474), (70, 11552), (74, 11600),
(141, 11957), (145, 11981), (183, 12146), (192, 12194), (201, 12266), (214, 12347), (221, 12401),
(252, 12620), (253, 12623), (261, 12677), (271, 12725), (281, 12788), (284, 12809), (285, 12812),
(311, 13004), (312, 13013), (316, 13031), (319, 13049), (320, 13052), (325, 13094), (330, 13127),
(345, 13217), (346, 13250), (349, 13367),

Gene: Cooper_12 Start: 10447, Stop: 12255, Start Num: 34
Candidate Starts for Cooper_12:
(Start: 34 @10447 has 47 MA's), (41, 10477), (58, 10513), (81, 10663), (83, 10696), (86, 10726), (104,
10870), (126, 10924), (141, 10999), (147, 11032), (148, 11041), (158, 11098), (165, 11125), (171,
11152), (172, 11155), (176, 11176), (201, 11323), (204, 11341), (224, 11470), (242, 11617), (253,
11677), (255, 11701), (260, 11722), (263, 11740), (268, 11761), (281, 11842), (290, 11890), (303,
12001), (307, 12025), (311, 12058), (316, 12085), (321, 12109), (322, 12127), (330, 12181), (333,
12199),

Gene: Cornbread_11 Start: 9464, Stop: 11206, Start Num: 53
Candidate Starts for Cornbread_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9995), (172, 10121), (183, 10172), (201, 10280),
(242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895),
(297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138),
(331, 11144), (333, 11156),

Gene: Cornobble_11 Start: 9308, Stop: 11050, Start Num: 53
Candidate Starts for Cornobble_11:
(Start: 53 @9308 has 282 MA's), (76, 9455), (147, 9839), (172, 9965), (183, 10016), (201, 10124),
(242, 10418), (252, 10475), (260, 10520), (261, 10529), (263, 10538), (284, 10661), (296, 10739),
(297, 10748), (306, 10823), (311, 10859), (316, 10886), (319, 10904), (322, 10928), (330, 10982),
(331, 10988), (333, 11000),

Gene: Corofin_14 Start: 11051, Stop: 13066, Start Num: 49
Candidate Starts for Corofin_14:
(Start: 49 @11051 has 44 MA's), (57, 11066), (70, 11144), (74, 11192), (141, 11549), (145, 11573), (183, 11738), (192, 11786), (201, 11858), (214, 11939), (221, 11993), (252, 12212), (253, 12215), (261, 12269), (271, 12317), (281, 12380), (284, 12401), (285, 12404), (311, 12596), (312, 12605), (316, 12623), (319, 12641), (320, 12644), (325, 12686), (330, 12719), (345, 12809), (346, 12842), (349, 12959),

Gene: Cosmolli16_11 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Cosmolli16_11:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281), (242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896), (297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139), (331, 11145), (333, 11157),

Gene: Craff_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Craff_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Crownjwl_12 Start: 9542, Stop: 11287, Start Num: 53
Candidate Starts for Crownjwl_12:
(Start: 53 @9542 has 282 MA's), (76, 9689), (147, 10076), (172, 10202), (183, 10253), (201, 10361), (242, 10655), (252, 10712), (260, 10757), (261, 10766), (263, 10775), (284, 10898), (296, 10976), (297, 10985), (306, 11060), (311, 11096), (316, 11123), (319, 11141), (322, 11165), (330, 11219), (331, 11225), (333, 11237),

Gene: D12_09 Start: 10923, Stop: 12623, Start Num: 98
Candidate Starts for D12_09:
(Start: 98 @10923 has 1 MA's), (118, 10995), (149, 11130), (159, 11169), (166, 11199), (177, 11244), (181, 11265), (198, 11373), (201, 11391), (211, 11460), (212, 11466), (216, 11490), (226, 11559), (249, 11718), (252, 11742), (256, 11772), (263, 11808), (270, 11835), (281, 11910), (288, 11949), (293, 11985), (297, 12015), (306, 12090), (315, 12150), (330, 12249), (331, 12255), (342, 12318), (348, 12474), (351, 12525), (352, 12531), (356, 12615),

Gene: DaddyDaniels_12 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for DaddyDaniels_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: Daffy_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Daffy_12:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Daisy_14 Start: 11047, Stop: 13062, Start Num: 49
Candidate Starts for Daisy_14:

(Start: 49 @11047 has 44 MA's), (57, 11062), (70, 11140), (74, 11188), (141, 11545), (145, 11569), (183, 11734), (192, 11782), (201, 11854), (214, 11935), (221, 11989), (252, 12208), (253, 12211), (261, 12265), (271, 12313), (281, 12376), (284, 12397), (285, 12400), (311, 12592), (312, 12601), (316, 12619), (319, 12637), (320, 12640), (325, 12682), (330, 12715), (349, 12955),

Gene: Daka_12 Start: 9760, Stop: 11505, Start Num: 53
Candidate Starts for Daka_12:
(Start: 53 @9760 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Dati_12 Start: 9461, Stop: 11203, Start Num: 53
Candidate Starts for Dati_12:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9992), (172, 10118), (183, 10169), (201, 10277), (242, 10571), (252, 10628), (260, 10673), (261, 10682), (263, 10691), (284, 10814), (296, 10892), (297, 10901), (306, 10976), (311, 11012), (316, 11039), (319, 11057), (322, 11081), (330, 11135), (331, 11141), (333, 11153),

Gene: Deenasa_14 Start: 11789, Stop: 13804, Start Num: 49
Candidate Starts for Deenasa_14:
(Start: 49 @11789 has 44 MA's), (57, 11804), (70, 11882), (74, 11930), (141, 12287), (145, 12311), (183, 12476), (192, 12524), (201, 12596), (214, 12677), (221, 12731), (252, 12950), (253, 12953), (261, 13007), (271, 13055), (281, 13118), (284, 13139), (285, 13142), (311, 13334), (312, 13343), (316, 13361), (319, 13379), (320, 13382), (325, 13424), (330, 13457), (345, 13547), (346, 13580), (349, 13697),

Gene: DelRivs_11 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for DelRivs_11:
(Start: 53 @9463 has 282 MA's), (147, 9997), (172, 10123), (183, 10174), (201, 10282), (242, 10576), (252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897), (297, 10906), (306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140), (331, 11146), (333, 11158),

Gene: Derpp_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Derpp_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: Devonte_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for Devonte_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548), (183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190), (261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580), (316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (345, 12784), (346, 12817), (349, 12934),

Gene: Dice_11 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Dice_11:
(Start: 53 @9463 has 282 MA's), (147, 9997), (172, 10123), (183, 10174), (201, 10282), (242, 10576), (252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897), (297, 10906),

(306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140), (331, 11146), (333, 11158),

Gene: DigitDog_13 Start: 11366, Stop: 13231, Start Num: 26
Candidate Starts for DigitDog_13:
(Start: 26 @11366 has 2 MA's), (Start: 34 @11390 has 47 MA's), (42, 11423), (58, 11474), (62, 11498), (75, 11603), (88, 11705), (141, 11966), (147, 11999), (158, 12068), (172, 12125), (177, 12152), (201, 12305), (223, 12449), (229, 12488), (242, 12596), (252, 12653), (253, 12656), (260, 12701), (261, 12710), (263, 12719), (275, 12797), (284, 12842), (288, 12863), (297, 12929), (305, 12998), (311, 13040), (315, 13064), (316, 13067), (321, 13091), (322, 13109), (328, 13157),

Gene: Dingo_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Dingo_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Dione_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Dione_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: DirtJuice_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for DirtJuice_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Doddsville_12 Start: 9461, Stop: 11203, Start Num: 53
Candidate Starts for Doddsville_12:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9992), (172, 10118), (183, 10169), (201, 10277), (242, 10571), (252, 10628), (260, 10673), (261, 10682), (263, 10691), (284, 10814), (296, 10892), (297, 10901), (306, 10976), (311, 11012), (316, 11039), (319, 11057), (322, 11081), (330, 11135), (331, 11141), (333, 11153),

Gene: DoesntMatter_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for DoesntMatter_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: DolOn_13 Start: 9992, Stop: 11737, Start Num: 53
Candidate Starts for DolOn_13:
(Start: 53 @9992 has 282 MA's), (147, 10526), (172, 10652), (183, 10703), (201, 10811), (242, 11105), (252, 11162), (260, 11207), (261, 11216), (263, 11225), (284, 11348), (296, 11426), (297, 11435), (306, 11510), (311, 11546), (316, 11573), (319, 11591), (322, 11615), (330, 11669), (331, 11675), (333, 11687),

Gene: DonSanchon_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for DonSanchon_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: DonTron_44 Start: 23250, Stop: 25040, Start Num: 34
Candidate Starts for DonTron_44:
(18, 23190), (30, 23244), (Start: 34 @23250 has 47 MA's), (135, 23787), (141, 23820), (143, 23832), (168, 23952), (170, 23955), (179, 24012), (207, 24165), (209, 24171), (212, 24198), (218, 24240), (258, 24498), (260, 24501), (269, 24543), (270, 24546), (276, 24600), (277, 24606), (294, 24702), (296, 24717), (297, 24726), (326, 24951), (331, 24987), (333, 24999), (336, 25023),

Gene: DonaldDuck_24 Start: 13808, Stop: 15640, Start Num: 52
Candidate Starts for DonaldDuck_24:
(Start: 52 @13808 has 36 MA's), (55, 13817), (71, 13916), (122, 14282), (153, 14450), (157, 14465), (171, 14525), (180, 14573), (181, 14579), (188, 14603), (205, 14720), (206, 14726), (219, 14819), (232, 14900), (247, 14993), (249, 15008), (254, 15056), (259, 15080), (270, 15128), (272, 15152), (280, 15200), (288, 15242), (304, 15377), (305, 15389), (307, 15398), (316, 15458), (327, 15527), (331, 15560),

Gene: Donny_13 Start: 11401, Stop: 13248, Start Num: 34
Candidate Starts for Donny_13:
(Start: 26 @11377 has 2 MA's), (Start: 34 @11401 has 47 MA's), (42, 11434), (58, 11485), (62, 11509), (75, 11614), (81, 11644), (82, 11653), (141, 11983), (147, 12016), (158, 12085), (171, 12139), (176, 12163), (177, 12169), (201, 12322), (229, 12505), (242, 12613), (252, 12670), (253, 12673), (260, 12718), (261, 12727), (263, 12736), (267, 12754), (275, 12814), (284, 12859), (288, 12880), (290, 12889), (293, 12916), (297, 12946), (305, 13015), (311, 13057), (315, 13081), (316, 13084), (322, 13126), (328, 13174),

Gene: Dori_10 Start: 8393, Stop: 10276, Start Num: 22
Candidate Starts for Dori_10:
(Start: 22 @8393 has 1 MA's), (28, 8420), (Start: 50 @8510 has 33 MA's), (99, 8867), (118, 8942), (130, 8978), (139, 9017), (141, 9032), (146, 9068), (151, 9110), (152, 9116), (185, 9254), (230, 9563), (245, 9665), (251, 9701), (252, 9710), (266, 9794), (277, 9854), (281, 9869), (315, 10109), (318, 10127), (319, 10130), (332, 10220),

Gene: DuchessDung_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for DuchessDung_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423), (252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753), (306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993), (333, 11005),

Gene: Duggie_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Duggie_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: Durga_12 Start: 9771, Stop: 11516, Start Num: 53

Candidate Starts for Durga_12:
(Start: 53 @9771 has 282 MA's), (147, 10305), (172, 10431), (183, 10482), (201, 10590), (242, 10884), (252, 10941), (260, 10986), (261, 10995), (263, 11004), (284, 11127), (296, 11205), (297, 11214), (306, 11289), (311, 11325), (316, 11352), (319, 11370), (322, 11394), (330, 11448), (331, 11454), (333, 11466),

Gene: Eaglehorse_15 Start: 12429, Stop: 14462, Start Num: 48
Candidate Starts for Eaglehorse_15:
(Start: 48 @12429 has 37 MA's), (74, 12573), (77, 12594), (84, 12651), (99, 12765), (141, 12933), (152, 13005), (183, 13122), (194, 13182), (197, 13200), (201, 13254), (214, 13335), (252, 13608), (253, 13611), (263, 13677), (302, 13935), (311, 13995), (312, 14004), (316, 14022), (321, 14046), (330, 14118), (338, 14166), (347, 14310), (349, 14349), (353, 14406), (354, 14442), (355, 14448),

Gene: EastView9101_13 Start: 11404, Stop: 13254, Start Num: 34
Candidate Starts for EastView9101_13:
(Start: 26 @11380 has 2 MA's), (Start: 34 @11404 has 47 MA's), (42, 11437), (58, 11488), (62, 11512), (75, 11617), (77, 11629), (82, 11656), (141, 11989), (147, 12022), (158, 12091), (171, 12145), (176, 12169), (177, 12175), (201, 12328), (229, 12511), (242, 12619), (252, 12676), (253, 12679), (260, 12724), (261, 12733), (263, 12742), (268, 12763), (275, 12820), (284, 12865), (288, 12886), (290, 12895), (297, 12952), (305, 13021), (311, 13063), (315, 13087), (316, 13090), (322, 13132), (328, 13180),

Gene: ElvisPhasley_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for ElvisPhasley_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: Emiris_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Emiris_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: EmpTee_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for EmpTee_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: Epah_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Epah_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643), (268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988), (321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Eremos_12 Start: 9751, Stop: 11496, Start Num: 53
Candidate Starts for Eremos_12:

(Start: 53 @9751 has 282 MA's), (147, 10285), (172, 10411), (183, 10462), (201, 10570), (242, 10864), (252, 10921), (260, 10966), (261, 10975), (263, 10984), (284, 11107), (296, 11185), (297, 11194), (306, 11269), (311, 11305), (316, 11332), (319, 11350), (322, 11374), (330, 11428), (331, 11434), (333, 11446),

Gene: Etaye_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Etaye_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Eugenia_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Eugenia_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: Evaa_12 Start: 11135, Stop: 12874, Start Num: 53
Candidate Starts for Evaa_12:
(Start: 53 @11135 has 282 MA's), (70, 11216), (125, 11540), (141, 11609), (148, 11645), (152, 11681), (242, 12218), (252, 12275), (263, 12341), (281, 12443), (284, 12464), (307, 12626), (311, 12659), (316, 12686), (321, 12710), (324, 12746), (331, 12788),

Gene: EverythinBagel_24 Start: 14211, Stop: 16028, Start Num: 52
Candidate Starts for EverythinBagel_24:
(Start: 52 @14211 has 36 MA's), (55, 14220), (71, 14319), (112, 14637), (153, 14838), (157, 14853), (171, 14913), (180, 14961), (188, 14991), (204, 15105), (205, 15108), (206, 15114), (214, 15168), (219, 15207), (232, 15288), (247, 15381), (249, 15396), (254, 15444), (259, 15468), (270, 15516), (272, 15540), (280, 15588), (288, 15630), (304, 15765), (307, 15786), (313, 15831), (316, 15846), (327, 15915), (331, 15948),

Gene: Fanaw_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Fanaw_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884), (117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187), (201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (261, 12742), (263, 12751), (268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039), (311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Fang_12 Start: 9758, Stop: 11506, Start Num: 53
Candidate Starts for Fang_12:
(Start: 53 @9758 has 282 MA's), (147, 10295), (172, 10421), (183, 10472), (201, 10580), (242, 10874), (252, 10931), (260, 10976), (261, 10985), (263, 10994), (284, 11117), (296, 11195), (297, 11204), (306, 11279), (311, 11315), (316, 11342), (319, 11360), (322, 11384), (330, 11438), (331, 11444), (333, 11456),

Gene: Faze9_15 Start: 12528, Stop: 14555, Start Num: 48
Candidate Starts for Faze9_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12747), (90, 12774), (99, 12861), (141, 13026), (152, 13098), (183, 13215), (194, 13275), (197, 13293), (201, 13347), (214, 13428), (252,

13701), (253, 13704), (263, 13770), (302, 14028), (311, 14088), (312, 14097), (316, 14115), (321, 14139), (330, 14211), (338, 14259), (347, 14403), (349, 14442), (353, 14499), (354, 14535), (355, 14541),

Gene: FelixTres_13 Start: 11332, Stop: 13014, Start Num: 51
Candidate Starts for FelixTres_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11656), (141, 11767), (145, 11791), (152, 11839), (176, 11929), (203, 12088), (205, 12097), (212, 12145), (224, 12223), (228, 12256), (233, 12304), (242, 12370), (251, 12418), (252, 12427), (253, 12430), (264, 12502), (270, 12520), (275, 12571), (284, 12616), (287, 12628), (290, 12643), (305, 12769), (311, 12811), (315, 12835), (316, 12838), (319, 12856),

Gene: Fizzles_25 Start: 13768, Stop: 15600, Start Num: 52
Candidate Starts for Fizzles_25:
(Start: 52 @13768 has 36 MA's), (54, 13774), (55, 13777), (74, 13915), (153, 14410), (162, 14449), (169, 14470), (180, 14533), (187, 14557), (188, 14563), (205, 14680), (219, 14779), (227, 14821), (232, 14860), (247, 14953), (249, 14968), (254, 15016), (257, 15031), (270, 15088), (272, 15112), (280, 15160), (286, 15196), (290, 15211), (304, 15337), (305, 15349), (307, 15358), (331, 15520),

Gene: Flake_13 Start: 9774, Stop: 11519, Start Num: 53
Candidate Starts for Flake_13:
(Start: 53 @9774 has 282 MA's), (147, 10308), (172, 10434), (183, 10485), (201, 10593), (242, 10887), (252, 10944), (260, 10989), (261, 10998), (263, 11007), (284, 11130), (296, 11208), (297, 11217), (306, 11292), (311, 11328), (316, 11355), (319, 11373), (322, 11397), (330, 11451), (331, 11457), (333, 11469),

Gene: FleetyMac_11 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for FleetyMac_11:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: FluffyNinja_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for FluffyNinja_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: ForDig_10 Start: 9865, Stop: 11721, Start Num: 24
Candidate Starts for ForDig_10:
(7, 9730), (13, 9832), (Start: 15 @9835 has 1 MA's), (Start: 24 @9865 has 1 MA's), (Start: 34 @9898 has 47 MA's), (41, 9931), (47, 9952), (85, 10183), (107, 10363), (147, 10510), (163, 10603), (171, 10633), (177, 10663), (178, 10666), (201, 10804), (206, 10831), (242, 11098), (253, 11158), (260, 11203), (263, 11221), (268, 11242), (281, 11323), (290, 11371), (300, 11470), (307, 11506), (308, 11509), (311, 11539), (315, 11563), (316, 11566), (322, 11608), (331, 11668),

Gene: Fortunato_12 Start: 11467, Stop: 13248, Start Num: 34
Candidate Starts for Fortunato_12:
(Start: 34 @11467 has 47 MA's), (58, 11533), (81, 11683), (83, 11716), (86, 11746), (104, 11878), (117, 11911), (141, 12007), (158, 12103), (165, 12130), (171, 12157), (172, 12160), (176, 12181), (201, 12328), (224, 12475), (242, 12622), (253, 12682), (255, 12706), (258, 12724), (261, 12736),

(263, 12745), (268, 12766), (281, 12847), (289, 12889), (290, 12895), (297, 12952), (300, 12994),
(305, 13021), (308, 13033), (311, 13063), (316, 13090), (321, 13114), (322, 13132), (326, 13156),
(330, 13186), (331, 13192),

Gene: Fozzie_11 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Fozzie_11:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868),
(252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198),
(306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438),
(333, 11450),

Gene: FrankDeliGuy_22 Start: 13770, Stop: 15602, Start Num: 52
Candidate Starts for FrankDeliGuy_22:
(Start: 52 @13770 has 36 MA's), (55, 13779), (71, 13878), (122, 14244), (153, 14412), (157, 14427),
(171, 14487), (180, 14535), (181, 14541), (188, 14565), (204, 14679), (205, 14682), (206, 14688),
(219, 14781), (232, 14862), (247, 14955), (249, 14970), (254, 15018), (259, 15042), (270, 15090),
(272, 15114), (280, 15162), (288, 15204), (304, 15339), (307, 15360), (316, 15420), (327, 15489),
(331, 15522),

Gene: Frankicide_12 Start: 9759, Stop: 11504, Start Num: 53
Candidate Starts for Frankicide_12:
(Start: 53 @9759 has 282 MA's), (76, 9906), (147, 10293), (172, 10419), (183, 10470), (201, 10578),
(242, 10872), (252, 10929), (260, 10974), (261, 10983), (263, 10992), (284, 11115), (296, 11193),
(297, 11202), (306, 11277), (311, 11313), (316, 11340), (319, 11358), (322, 11382), (330, 11436),
(331, 11442), (333, 11454),

Gene: Fransoyer_27 Start: 13833, Stop: 15662, Start Num: 50
Candidate Starts for Fransoyer_27:
(Start: 50 @13833 has 33 MA's), (55, 13845), (73, 13974), (99, 14202), (100, 14220), (140, 14379),
(153, 14463), (171, 14541), (180, 14589), (188, 14619), (204, 14733), (219, 14835), (227, 14877),
(232, 14916), (233, 14925), (247, 15009), (249, 15024), (270, 15144), (272, 15168), (278, 15210),
(280, 15216), (288, 15258), (304, 15393), (307, 15414), (309, 15438), (312, 15456), (316, 15474),
(331, 15576),

Gene: Frederick_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Frederick_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (261, 12742),
(263, 12751), (268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027),
(308, 13039), (311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192),
(331, 13198),

Gene: Fregley_25 Start: 13171, Stop: 14949, Start Num: 50
Candidate Starts for Fregley_25:
(Start: 50 @13171 has 33 MA's), (55, 13183), (97, 13525), (133, 13642), (153, 13768), (180, 13882),
(188, 13912), (219, 14125), (232, 14206), (233, 14215), (245, 14293), (247, 14299), (249, 14314),
(272, 14458), (278, 14500), (288, 14551), (305, 14698), (307, 14707), (328, 14857), (331, 14869),

Gene: FremontTroll_12 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for FremontTroll_12:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281),
(242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896),

(297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139),
(331, 11145), (333, 11157),

Gene: FrenchFry_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for FrenchFry_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029),
(152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704),
(253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142),
(330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: Fresco_11 Start: 9837, Stop: 11540, Start Num: 51
Candidate Starts for Fresco_11:
(Start: 51 @9837 has 21 MA's), (74, 9972), (109, 10188), (121, 10209), (141, 10284), (150, 10347),
(176, 10446), (190, 10506), (203, 10605), (242, 10884), (252, 10941), (263, 11007), (281, 11109),
(284, 11130), (288, 11148), (302, 11265), (311, 11325), (316, 11352), (321, 11376), (324, 11412),
(330, 11448), (331, 11454), (344, 11529),

Gene: Freya_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Freya_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: FriarPreacher_12 Start: 9760, Stop: 11505, Start Num: 53
Candidate Starts for FriarPreacher_12:
(Start: 53 @9760 has 282 MA's), (76, 9907), (147, 10294), (172, 10420), (183, 10471), (201, 10579),
(242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194),
(297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437),
(331, 11443), (333, 11455),

Gene: Fringe_12 Start: 9755, Stop: 11503, Start Num: 53
Candidate Starts for Fringe_12:
(Start: 53 @9755 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: FugateOSU_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for FugateOSU_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Funsized_17 Start: 13435, Stop: 15306, Start Num: 34
Candidate Starts for Funsized_17:
(Start: 34 @13435 has 47 MA's), (47, 13486), (58, 13519), (83, 13711), (115, 13945), (143, 14068),
(145, 14080), (163, 14182), (165, 14185), (167, 14194), (172, 14215), (176, 14236), (177, 14242),
(178, 14245), (190, 14296), (201, 14383), (206, 14410), (228, 14560), (242, 14674), (252, 14731),
(258, 14776), (263, 14797), (265, 14809), (268, 14818), (281, 14899), (284, 14920), (290, 14947),
(298, 15028), (300, 15046), (303, 15058), (305, 15073), (307, 15082), (308, 15085), (311, 15115),
(316, 15142), (319, 15160), (321, 15166), (322, 15184), (331, 15244), (333, 15256),

Gene: Gadjet_15 Start: 11030, Stop: 13045, Start Num: 49
Candidate Starts for Gadjet_15:
(Start: 49 @11030 has 44 MA's), (57, 11045), (70, 11123), (74, 11171), (141, 11528), (145, 11552),
(183, 11717), (192, 11765), (201, 11837), (214, 11918), (221, 11972), (252, 12191), (253, 12194),
(261, 12248), (271, 12296), (281, 12359), (284, 12380), (285, 12383), (311, 12575), (312, 12584),
(316, 12602), (319, 12620), (320, 12623), (325, 12665), (330, 12698), (349, 12938),

Gene: Gareth_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Gareth_11:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9995), (172, 10121), (183, 10172), (201, 10280),
(242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895),
(297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138),
(331, 11144), (333, 11156),

Gene: Gazebo_24 Start: 14317, Stop: 16143, Start Num: 52
Candidate Starts for Gazebo_24:
(Start: 52 @14317 has 36 MA's), (55, 14326), (71, 14425), (112, 14752), (153, 14953), (157, 14968),
(171, 15028), (180, 15076), (188, 15106), (205, 15223), (206, 15229), (219, 15322), (232, 15403),
(247, 15496), (249, 15511), (254, 15559), (259, 15583), (270, 15631), (272, 15655), (280, 15703),
(288, 15745), (304, 15880), (307, 15901), (316, 15961), (327, 16030), (331, 16063),

Gene: GeneCoco_12 Start: 9763, Stop: 11508, Start Num: 53
Candidate Starts for GeneCoco_12:
(Start: 53 @9763 has 282 MA's), (147, 10297), (172, 10423), (183, 10474), (201, 10582), (242, 10876),
(252, 10933), (260, 10978), (261, 10987), (263, 10996), (284, 11119), (296, 11197), (297, 11206),
(306, 11281), (311, 11317), (316, 11344), (319, 11362), (322, 11386), (330, 11440), (331, 11446),
(333, 11458),

Gene: Gervas_14 Start: 11009, Stop: 13024, Start Num: 49
Candidate Starts for Gervas_14:
(Start: 46 @10997 has 6 MA's), (Start: 49 @11009 has 44 MA's), (57, 11024), (70, 11102), (74, 11150),
(141, 11507), (145, 11531), (183, 11696), (192, 11744), (201, 11816), (214, 11897), (221, 11951),
(252, 12170), (253, 12173), (261, 12227), (271, 12275), (281, 12338), (284, 12359), (285, 12362),
(311, 12554), (312, 12563), (316, 12581), (319, 12599), (320, 12602), (325, 12644), (330, 12677),
(349, 12917),

Gene: GinPorsche_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for GinPorsche_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809),
(141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139),
(201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643),
(268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988),
(321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Giraffe_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Giraffe_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: Glass_15 Start: 12528, Stop: 14558, Start Num: 48

Candidate Starts for Glass_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029),
(152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704),
(253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142),
(330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: GlenHope_15 Start: 11016, Stop: 13031, Start Num: 49
Candidate Starts for GlenHope_15:
(Start: 46 @11004 has 6 MA's), (Start: 49 @11016 has 44 MA's), (57, 11031), (70, 11109), (74, 11157),
(141, 11514), (145, 11538), (183, 11703), (192, 11751), (201, 11823), (214, 11904), (221, 11958),
(252, 12177), (253, 12180), (261, 12234), (271, 12282), (281, 12345), (284, 12366), (285, 12369),
(311, 12561), (312, 12570), (316, 12588), (319, 12606), (320, 12609), (325, 12651), (330, 12684),
(345, 12774), (346, 12807), (349, 12924),

Gene: Glubnar_14 Start: 11030, Stop: 13045, Start Num: 49
Candidate Starts for Glubnar_14:
(Start: 49 @11030 has 44 MA's), (57, 11045), (70, 11123), (74, 11171), (141, 11528), (145, 11552),
(183, 11717), (192, 11765), (201, 11837), (214, 11918), (221, 11972), (252, 12191), (253, 12194),
(261, 12248), (271, 12296), (281, 12359), (284, 12380), (285, 12383), (311, 12575), (312, 12584),
(316, 12602), (319, 12620), (320, 12623), (325, 12665), (330, 12698), (345, 12788), (346, 12821),
(349, 12938),

Gene: GodPhather_10 Start: 10840, Stop: 12903, Start Num: 50
Candidate Starts for GodPhather_10:
(Start: 50 @10840 has 33 MA's), (57, 10852), (61, 10879), (70, 10933), (74, 10981), (87, 11086),
(Start: 98 @11203 has 1 MA's), (118, 11275), (149, 11410), (152, 11425), (159, 11449), (166, 11479),
(177, 11524), (181, 11545), (198, 11653), (201, 11671), (211, 11740), (212, 11746), (226, 11839),
(252, 12022), (256, 12052), (263, 12088), (270, 12115), (288, 12229), (297, 12295), (306, 12370),
(315, 12430), (330, 12529), (331, 12535), (342, 12598), (348, 12754), (351, 12805), (352, 12811),
(356, 12895),

Gene: Godines_15 Start: 12411, Stop: 14441, Start Num: 48
Candidate Starts for Godines_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (99, 12744), (141, 12912),
(152, 12984), (183, 13101), (194, 13161), (197, 13179), (201, 13233), (214, 13314), (252, 13587),
(253, 13590), (263, 13656), (302, 13914), (311, 13974), (312, 13983), (316, 14001), (321, 14025),
(330, 14097), (338, 14145), (347, 14289), (349, 14328), (353, 14385), (354, 14421), (355, 14427),

Gene: Gophee_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Gophee_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Grand2040_11 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Grand2040_11:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281),
(242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896),
(297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139),
(331, 11145), (333, 11157),

Gene: Grassboy_26 Start: 14484, Stop: 16316, Start Num: 52

Candidate Starts for Grassboy_26:
(Start: 52 @14484 has 36 MA's), (55, 14493), (71, 14592), (112, 14925), (153, 15126), (157, 15141),
(171, 15201), (180, 15249), (188, 15279), (205, 15396), (206, 15402), (219, 15495), (232, 15576),
(247, 15669), (249, 15684), (254, 15732), (259, 15756), (270, 15804), (272, 15828), (280, 15876),
(288, 15918), (304, 16053), (307, 16074), (313, 16119), (316, 16134), (327, 16203), (331, 16236),

Gene: GreenChile_12 Start: 9759, Stop: 11504, Start Num: 53
Candidate Starts for GreenChile_12:
(Start: 53 @9759 has 282 MA's), (76, 9906), (147, 10293), (172, 10419), (183, 10470), (201, 10578),
(242, 10872), (252, 10929), (260, 10974), (261, 10983), (263, 10992), (284, 11115), (296, 11193),
(297, 11202), (306, 11277), (311, 11313), (316, 11340), (319, 11358), (322, 11382), (330, 11436),
(331, 11442), (333, 11454),

Gene: Grumio_44 Start: 22682, Stop: 24478, Start Num: 30
Candidate Starts for Grumio_44:
(18, 22628), (30, 22682), (Start: 34 @22688 has 47 MA's), (135, 23225), (141, 23258), (143, 23270),
(168, 23390), (170, 23393), (179, 23450), (207, 23603), (209, 23609), (212, 23636), (218, 23678),
(258, 23936), (260, 23939), (269, 23981), (270, 23984), (276, 24038), (277, 24044), (294, 24140),
(296, 24155), (297, 24164), (326, 24389), (331, 24425), (333, 24437), (336, 24461),

Gene: Gwennie1_12 Start: 9775, Stop: 11520, Start Num: 53
Candidate Starts for Gwennie1_12:
(Start: 53 @9775 has 282 MA's), (147, 10309), (172, 10435), (183, 10486), (201, 10594), (242, 10888),
(252, 10945), (260, 10990), (261, 10999), (263, 11008), (284, 11131), (296, 11209), (297, 11218),
(306, 11293), (311, 11329), (316, 11356), (319, 11374), (322, 11398), (330, 11452), (331, 11458),
(333, 11470),

Gene: Gwilliam_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Gwilliam_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573),
(242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188),
(297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431),
(331, 11437), (333, 11449),

Gene: Gyarad_0012 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Gyarad_0012:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: HSavage_12 Start: 9759, Stop: 11504, Start Num: 53
Candidate Starts for HSavage_12:
(Start: 53 @9759 has 282 MA's), (76, 9906), (147, 10293), (172, 10419), (183, 10470), (201, 10578),
(242, 10872), (252, 10929), (260, 10974), (261, 10983), (263, 10992), (284, 11115), (296, 11193),
(297, 11202), (306, 11277), (311, 11313), (316, 11340), (319, 11358), (322, 11382), (330, 11436),
(331, 11442), (333, 11454),

Gene: Haimas_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Haimas_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),

(333, 11452),

Gene: Haleema_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Haleema_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Halfpint_13 Start: 10851, Stop: 12866, Start Num: 49
Candidate Starts for Halfpint_13:
(Start: 46 @10839 has 6 MA's), (Start: 49 @10851 has 44 MA's), (57, 10866), (70, 10944), (74, 10992),
(141, 11349), (145, 11373), (183, 11538), (192, 11586), (201, 11658), (214, 11739), (221, 11793),
(252, 12012), (253, 12015), (261, 12069), (271, 12117), (281, 12180), (284, 12201), (285, 12204),
(311, 12396), (312, 12405), (316, 12423), (319, 12441), (320, 12444), (325, 12486), (330, 12519),
(345, 12609), (346, 12642), (349, 12759),

Gene: Hally898_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Hally898_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809),
(141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139),
(201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643),
(268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988),
(321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Hamish_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Hamish_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Hangman_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Hangman_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Happabalu_12 Start: 9460, Stop: 11202, Start Num: 53
Candidate Starts for Happabalu_12:
(Start: 53 @9460 has 282 MA's), (76, 9607), (147, 9991), (172, 10117), (183, 10168), (201, 10276),
(242, 10570), (252, 10627), (260, 10672), (261, 10681), (263, 10690), (284, 10813), (296, 10891),
(297, 10900), (306, 10975), (311, 11011), (316, 11038), (319, 11056), (322, 11080), (330, 11134),
(331, 11140), (333, 11152),

Gene: Hartsy_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Hartsy_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: Harvey_12 Start: 9758, Stop: 11506, Start Num: 53
Candidate Starts for Harvey_12:
(Start: 53 @9758 has 282 MA's), (147, 10295), (172, 10421), (183, 10472), (201, 10580), (242, 10874),
(252, 10931), (260, 10976), (261, 10985), (263, 10994), (284, 11117), (296, 11195), (297, 11204),
(306, 11279), (311, 11315), (316, 11342), (319, 11360), (322, 11384), (330, 11438), (331, 11444),
(333, 11456),

Gene: HarveySr_14 Start: 11003, Stop: 13018, Start Num: 49
Candidate Starts for HarveySr_14:
(Start: 46 @10991 has 6 MA's), (Start: 49 @11003 has 44 MA's), (57, 11018), (70, 11096), (74, 11144),
(141, 11501), (145, 11525), (183, 11690), (192, 11738), (201, 11810), (214, 11891), (221, 11945),
(252, 12164), (253, 12167), (261, 12221), (271, 12269), (281, 12332), (284, 12353), (285, 12356),
(311, 12548), (312, 12557), (316, 12575), (319, 12593), (320, 12596), (325, 12638), (330, 12671),
(345, 12761), (346, 12794), (349, 12911),

Gene: Hashim76_17 Start: 10808, Stop: 12628, Start Num: 34
Candidate Starts for Hashim76_17:
(27, 10784), (Start: 34 @10808 has 47 MA's), (42, 10838), (57, 10880), (70, 10952), (107, 11261),
(123, 11294), (137, 11339), (147, 11399), (165, 11495), (171, 11522), (201, 11702), (229, 11885),
(233, 11927), (242, 11993), (252, 12050), (253, 12053), (268, 12137), (284, 12239), (287, 12254),
(288, 12260), (303, 12380), (305, 12395), (311, 12437), (316, 12464), (321, 12488), (322, 12506),
(329, 12557), (330, 12560), (333, 12578),

Gene: Heath_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Heath_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Heathcliff_14 Start: 10976, Stop: 13003, Start Num: 46
Candidate Starts for Heathcliff_14:
(Start: 46 @10976 has 6 MA's), (Start: 49 @10988 has 44 MA's), (57, 11003), (70, 11081), (74, 11129),
(141, 11486), (145, 11510), (183, 11675), (192, 11723), (201, 11795), (214, 11876), (221, 11930),
(252, 12149), (253, 12152), (261, 12206), (271, 12254), (281, 12317), (284, 12338), (285, 12341),
(311, 12533), (312, 12542), (316, 12560), (319, 12578), (320, 12581), (325, 12623), (330, 12656),
(345, 12746), (346, 12779), (349, 12896),

Gene: Hedgerow_15 Start: 12510, Stop: 14540, Start Num: 48
Candidate Starts for Hedgerow_15:
(Start: 48 @12510 has 37 MA's), (74, 12654), (77, 12675), (84, 12732), (99, 12846), (141, 13011),
(152, 13083), (183, 13200), (194, 13260), (197, 13278), (201, 13332), (214, 13413), (252, 13686),
(253, 13689), (263, 13755), (302, 14013), (311, 14073), (312, 14082), (316, 14100), (321, 14124),
(330, 14196), (338, 14244), (347, 14388), (349, 14427), (353, 14484), (354, 14520), (355, 14526),

Gene: Hekos_11 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Hekos_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9997), (172, 10123), (183, 10174), (201, 10282),
(242, 10576), (252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897),
(297, 10906), (306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140),
(331, 11146), (333, 11158),

Gene: Held_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Held_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: HenryJackson_11 Start: 9464, Stop: 11212, Start Num: 53
Candidate Starts for HenryJackson_11:
(Start: 53 @9464 has 282 MA's), (147, 10001), (172, 10127), (183, 10178), (201, 10286), (242, 10580),
(252, 10637), (260, 10682), (261, 10691), (263, 10700), (284, 10823), (296, 10901), (297, 10910),
(306, 10985), (311, 11021), (316, 11048), (319, 11066), (322, 11090), (330, 11144), (331, 11150),
(333, 11162),

Gene: Hertubise_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Hertubise_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Hetaeria_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Hetaeria_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: HighStump_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for HighStump_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577),
(252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907),
(306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147),
(333, 11159),

Gene: Hocus_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Hocus_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577),
(252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907),
(306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147),
(333, 11159),

Gene: HogWash_11 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for HogWash_11:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: Holeinone_15 Start: 12410, Stop: 14440, Start Num: 48
Candidate Starts for Holeinone_15:

(Start: 48 @12410 has 37 MA's), (74, 12554), (77, 12575), (84, 12632), (99, 12746), (141, 12911), (152, 12983), (183, 13100), (194, 13160), (197, 13178), (201, 13232), (214, 13313), (252, 13586), (253, 13589), (263, 13655), (302, 13913), (311, 13973), (312, 13982), (316, 14000), (321, 14024), (330, 14096), (338, 14144), (347, 14288), (349, 14327), (353, 14384), (354, 14420), (355, 14426),

Gene: Horchata_12 Start: 9756, Stop: 11501, Start Num: 53
Candidate Starts for Horchata_12:
(Start: 53 @9756 has 282 MA's), (76, 9903), (147, 10290), (172, 10416), (183, 10467), (201, 10575), (242, 10869), (252, 10926), (260, 10971), (261, 10980), (263, 10989), (284, 11112), (296, 11190), (297, 11199), (306, 11274), (311, 11310), (316, 11337), (319, 11355), (322, 11379), (330, 11433), (331, 11439), (333, 11451),

Gene: Hosp_08 Start: 8037, Stop: 9935, Start Num: 15
Candidate Starts for Hosp_08:
(7, 7932), (13, 8034), (Start: 15 @8037 has 1 MA's), (Start: 24 @8067 has 1 MA's), (Start: 34 @8100 has 47 MA's), (41, 8133), (47, 8154), (85, 8385), (107, 8568), (147, 8715), (163, 8808), (171, 8838), (177, 8868), (201, 9009), (206, 9036), (242, 9303), (253, 9363), (255, 9387), (260, 9408), (268, 9447), (281, 9528), (290, 9576), (298, 9657), (300, 9675), (307, 9711), (308, 9714), (311, 9744), (315, 9768), (316, 9771), (321, 9795), (322, 9813), (331, 9873), (333, 9885), (336, 9909),

Gene: Hydro_12 Start: 11473, Stop: 13251, Start Num: 34
Candidate Starts for Hydro_12:
(Start: 34 @11473 has 47 MA's), (58, 11539), (81, 11689), (83, 11722), (86, 11752), (104, 11881), (117, 11914), (141, 12010), (158, 12106), (165, 12133), (171, 12160), (172, 12163), (176, 12184), (201, 12331), (224, 12478), (242, 12625), (253, 12685), (255, 12709), (258, 12727), (263, 12748), (268, 12769), (281, 12850), (290, 12898), (297, 12955), (300, 12997), (305, 13024), (308, 13036), (311, 13066), (316, 13093), (321, 13117), (322, 13135), (326, 13159), (330, 13189), (331, 13195),

Gene: Hyperion_24 Start: 14277, Stop: 16103, Start Num: 52
Candidate Starts for Hyperion_24:
(Start: 52 @14277 has 36 MA's), (55, 14286), (71, 14385), (112, 14712), (153, 14913), (157, 14928), (171, 14988), (180, 15036), (188, 15066), (205, 15183), (206, 15189), (219, 15282), (232, 15363), (247, 15456), (249, 15471), (254, 15519), (259, 15543), (270, 15591), (272, 15615), (280, 15663), (288, 15705), (304, 15840), (307, 15861), (316, 15921), (327, 15990), (331, 16023),

Gene: ImtiyazSitla_11 Start: 9304, Stop: 11049, Start Num: 53
Candidate Starts for ImtiyazSitla_11:
(Start: 53 @9304 has 282 MA's), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987), (333, 10999),

Gene: Imvubu_9 Start: 8752, Stop: 10623, Start Num: 34
Candidate Starts for Imvubu_9:
(3, 8533), (4, 8539), (5, 8542), (6, 8548), (17, 8692), (Start: 34 @8752 has 47 MA's), (47, 8806), (58, 8839), (61, 8866), (62, 8872), (70, 8920), (115, 9274), (165, 9508), (171, 9535), (176, 9559), (177, 9565), (178, 9568), (190, 9619), (201, 9706), (228, 9883), (236, 9943), (242, 9997), (258, 10099), (263, 10120), (297, 10327), (300, 10369), (305, 10396), (307, 10405), (308, 10408), (311, 10438), (316, 10465), (322, 10507), (326, 10531), (330, 10561), (333, 10579),

Gene: Inchworm_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Inchworm_12:

(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Indlovu_12 Start: 11120, Stop: 12970, Start Num: 34
Candidate Starts for Indlovu_12:
(Start: 19 @11063 has 1 MA's), (Start: 34 @11120 has 47 MA's), (47, 11174), (62, 11234), (88, 11441), (126, 11651), (141, 11723), (147, 11756), (163, 11849), (171, 11879), (183, 11933), (201, 12050), (205, 12071), (224, 12197), (228, 12230), (242, 12344), (252, 12401), (253, 12404), (258, 12446), (263, 12467), (268, 12488), (281, 12569), (305, 12743), (311, 12785), (312, 12794), (315, 12809), (316, 12812), (319, 12830), (322, 12854), (326, 12878),

Gene: Inverness_12 Start: 9759, Stop: 11504, Start Num: 53
Candidate Starts for Inverness_12:
(Start: 53 @9759 has 282 MA's), (76, 9906), (147, 10293), (172, 10419), (183, 10470), (201, 10578), (242, 10872), (252, 10929), (260, 10974), (261, 10983), (263, 10992), (284, 11115), (296, 11193), (297, 11202), (306, 11277), (311, 11313), (316, 11340), (319, 11358), (322, 11382), (330, 11436), (331, 11442), (333, 11454),

Gene: Iridessa_12 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Iridessa_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: Iridoclysis_12 Start: 9761, Stop: 11506, Start Num: 53
Candidate Starts for Iridoclysis_12:
(Start: 53 @9761 has 282 MA's), (76, 9908), (147, 10295), (172, 10421), (183, 10472), (201, 10580), (242, 10874), (252, 10931), (260, 10976), (261, 10985), (263, 10994), (284, 11117), (296, 11195), (297, 11204), (306, 11279), (311, 11315), (316, 11342), (319, 11360), (322, 11384), (330, 11438), (331, 11444), (333, 11456),

Gene: IsaacEli_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for IsaacEli_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: ItsyBitsy1_15 Start: 12402, Stop: 14432, Start Num: 48
Candidate Starts for ItsyBitsy1_15:
(Start: 48 @12402 has 37 MA's), (74, 12546), (77, 12567), (84, 12624), (99, 12738), (141, 12903), (152, 12975), (183, 13092), (194, 13152), (197, 13170), (201, 13224), (214, 13305), (252, 13578), (253, 13581), (263, 13647), (302, 13905), (311, 13965), (312, 13974), (316, 13992), (321, 14016), (330, 14088), (338, 14136), (347, 14280), (349, 14319), (353, 14376), (354, 14412), (355, 14418),

Gene: JAMaL_12 Start: 11630, Stop: 13423, Start Num: 34
Candidate Starts for JAMaL_12:
(Start: 34 @11630 has 47 MA's), (41, 11660), (58, 11696), (75, 11825), (81, 11846), (86, 11909), (141, 12170), (148, 12209), (158, 12266), (171, 12320), (172, 12323), (176, 12344), (177, 12350), (178, 12353), (190, 12404), (201, 12491), (233, 12719), (236, 12731), (242, 12785), (253, 12845), (255,

12869), (260, 12890), (263, 12908), (268, 12929), (281, 13010), (290, 13058), (303, 13169), (307, 13193), (311, 13226), (316, 13253), (319, 13271), (321, 13277), (322, 13295), (328, 13343), (330, 13349), (331, 13355), (333, 13367),

Gene: JDog_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for JDog_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: JacAttac_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for JacAttac_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Jackstina_13 Start: 10943, Stop: 12967, Start Num: 49
Candidate Starts for Jackstina_13:
(Start: 49 @10943 has 44 MA's), (57, 10958), (70, 11036), (74, 11084), (114, 11345), (141, 11450), (145, 11474), (183, 11639), (192, 11687), (201, 11759), (214, 11840), (221, 11894), (252, 12113), (253, 12116), (261, 12170), (271, 12218), (281, 12281), (284, 12302), (285, 12305), (311, 12497), (312, 12506), (316, 12524), (319, 12542), (320, 12545), (325, 12587), (330, 12620), (345, 12710), (346, 12743), (349, 12860),

Gene: JaguarMi_13 Start: 11300, Stop: 13078, Start Num: 34
Candidate Starts for JaguarMi_13:
(Start: 34 @11300 has 47 MA's), (58, 11366), (83, 11549), (86, 11579), (104, 11708), (134, 11798), (141, 11837), (148, 11876), (165, 11960), (171, 11987), (172, 11990), (176, 12011), (201, 12158), (224, 12305), (239, 12437), (242, 12452), (253, 12512), (255, 12536), (258, 12554), (263, 12575), (268, 12596), (281, 12677), (290, 12725), (297, 12782), (300, 12824), (305, 12851), (308, 12863), (311, 12893), (312, 12902), (316, 12920), (321, 12944), (322, 12962), (326, 12986), (330, 13016), (331, 13022),

Gene: JakeO_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for JakeO_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: JangoPhett_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for JangoPhett_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Jehoshaphat_27 Start: 14727, Stop: 16559, Start Num: 52
Candidate Starts for Jehoshaphat_27:
(Start: 52 @14727 has 36 MA's), (55, 14736), (71, 14835), (122, 15201), (153, 15369), (157, 15384), (171, 15444), (180, 15492), (181, 15498), (188, 15522), (205, 15639), (206, 15645), (219, 15738),

(232, 15819), (247, 15912), (249, 15927), (254, 15975), (259, 15999), (270, 16047), (272, 16071), (280, 16119), (288, 16161), (304, 16296), (305, 16308), (307, 16317), (316, 16377), (327, 16446), (331, 16479),

Gene: Jeon_9 Start: 10570, Stop: 12633, Start Num: 50
Candidate Starts for Jeon_9:
(Start: 50 @10570 has 33 MA's), (57, 10582), (61, 10609), (70, 10663), (74, 10711), (87, 10816), (Start: 98 @10933 has 1 MA's), (118, 11005), (149, 11140), (152, 11155), (159, 11179), (166, 11209), (177, 11254), (181, 11275), (198, 11383), (201, 11401), (211, 11470), (212, 11476), (226, 11569), (252, 11752), (256, 11782), (263, 11818), (270, 11845), (288, 11959), (297, 12025), (306, 12100), (315, 12160), (330, 12259), (331, 12265), (342, 12328), (348, 12484), (351, 12535), (352, 12541), (356, 12625),

Gene: Jesabah_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Jesabah_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Jillium_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Jillium_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Jiminy_11 Start: 9312, Stop: 11057, Start Num: 53
Candidate Starts for Jiminy_11:
(Start: 53 @9312 has 282 MA's), (147, 9846), (172, 9972), (183, 10023), (201, 10131), (242, 10425), (252, 10482), (260, 10527), (261, 10536), (263, 10545), (284, 10668), (296, 10746), (297, 10755), (306, 10830), (311, 10866), (316, 10893), (319, 10911), (322, 10935), (330, 10989), (331, 10995), (333, 11007),

Gene: Jiraiya_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Jiraiya_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: Jolie1_010 Start: 9835, Stop: 11718, Start Num: 15
Candidate Starts for Jolie1_010:
(7, 9730), (13, 9832), (Start: 15 @9835 has 1 MA's), (Start: 24 @9865 has 1 MA's), (Start: 34 @9898 has 47 MA's), (41, 9931), (47, 9952), (85, 10183), (93, 10270), (107, 10360), (147, 10507), (163, 10600), (171, 10630), (177, 10660), (178, 10663), (201, 10801), (206, 10828), (242, 11095), (253, 11155), (260, 11200), (263, 11218), (268, 11239), (281, 11320), (290, 11368), (300, 11467), (307, 11503), (308, 11506), (311, 11536), (315, 11560), (316, 11563), (322, 11605), (331, 11665),

Gene: Jollymon_44 Start: 23180, Stop: 24970, Start Num: 34
Candidate Starts for Jollymon_44:
(18, 23120), (30, 23174), (Start: 34 @23180 has 47 MA's), (135, 23717), (141, 23750), (143, 23762), (168, 23882), (170, 23885), (179, 23942), (207, 24095), (209, 24101), (212, 24128), (218, 24170),

(258, 24428), (260, 24431), (269, 24473), (270, 24476), (276, 24530), (277, 24536), (294, 24632),
(296, 24647), (297, 24656), (326, 24881), (331, 24917), (333, 24929), (336, 24953),

Gene: JoyceMaria_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for JoyceMaria_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Judebell_27 Start: 14268, Stop: 16100, Start Num: 52
Candidate Starts for Judebell_27:
(Start: 52 @14268 has 36 MA's), (55, 14277), (71, 14376), (122, 14742), (153, 14910), (157, 14925),
(171, 14985), (180, 15033), (181, 15039), (188, 15063), (204, 15177), (205, 15180), (206, 15186),
(219, 15279), (232, 15360), (247, 15453), (249, 15468), (254, 15516), (259, 15540), (270, 15588),
(272, 15612), (280, 15660), (288, 15702), (304, 15837), (307, 15858), (316, 15918), (327, 15987),
(331, 16020),

Gene: KLucky39_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for KLucky39_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: Kahve_11 Start: 9464, Stop: 11212, Start Num: 53
Candidate Starts for Kahve_11:
(Start: 53 @9464 has 282 MA's), (147, 10001), (172, 10127), (183, 10178), (201, 10286), (242, 10580),
(252, 10637), (260, 10682), (261, 10691), (263, 10700), (284, 10823), (296, 10901), (297, 10910),
(306, 10985), (311, 11021), (316, 11048), (319, 11066), (322, 11090), (330, 11144), (331, 11150),
(333, 11162),

Gene: Kailash_12 Start: 9766, Stop: 11511, Start Num: 53
Candidate Starts for Kailash_12:
(Start: 53 @9766 has 282 MA's), (147, 10300), (172, 10426), (183, 10477), (201, 10585), (242, 10879),
(252, 10936), (260, 10981), (261, 10990), (263, 10999), (284, 11122), (296, 11200), (297, 11209),
(306, 11284), (311, 11320), (316, 11347), (319, 11365), (322, 11389), (330, 11443), (331, 11449),
(333, 11461),

Gene: Kaleb_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for Kaleb_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (90, 12777), (99, 12864), (141,
13029), (152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252,
13704), (253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321,
14142), (330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355,
14544),

Gene: Kamiyu_14 Start: 10985, Stop: 13012, Start Num: 46
Candidate Starts for Kamiyu_14:
(Start: 46 @10985 has 6 MA's), (Start: 49 @10997 has 44 MA's), (57, 11012), (70, 11090), (74, 11138),
(141, 11495), (145, 11519), (183, 11684), (192, 11732), (201, 11804), (214, 11885), (221, 11939),
(252, 12158), (253, 12161), (261, 12215), (271, 12263), (281, 12326), (284, 12347), (285, 12350),

(311, 12542), (312, 12551), (316, 12569), (319, 12587), (320, 12590), (325, 12632), (330, 12665),
(345, 12755), (346, 12788), (349, 12905),

Gene: KarasumaRum_14 Start: 11554, Stop: 13395, Start Num: 34
Candidate Starts for KarasumaRum_14:
(Start: 26 @11530 has 2 MA's), (Start: 34 @11554 has 47 MA's), (42, 11587), (62, 11662), (75, 11767),
(88, 11869), (141, 12130), (147, 12163), (158, 12232), (172, 12289), (177, 12316), (201, 12469), (204,
12487), (223, 12613), (229, 12652), (242, 12760), (252, 12817), (253, 12820), (260, 12865), (261,
12874), (263, 12883), (275, 12961), (284, 13006), (288, 13027), (297, 13093), (299, 13123), (305,
13162), (311, 13204), (312, 13213), (315, 13228), (316, 13231), (321, 13255), (322, 13273), (328,
13321),

Gene: Karn_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Karn_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: Katniss_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Katniss_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: KayaCho_10 Start: 9838, Stop: 11730, Start Num: 15
Candidate Starts for KayaCho_10:
(7, 9733), (13, 9835), (Start: 15 @9838 has 1 MA's), (Start: 24 @9868 has 1 MA's), (Start: 34 @9901
has 47 MA's), (41, 9934), (47, 9955), (85, 10186), (107, 10369), (147, 10516), (163, 10609), (171,
10639), (177, 10669), (178, 10672), (201, 10810), (206, 10837), (242, 11104), (253, 11164), (260,
11209), (268, 11248), (281, 11329), (290, 11377), (300, 11476), (307, 11512), (308, 11515), (311,
11545), (315, 11569), (316, 11572), (322, 11614), (331, 11674),

Gene: Keitherie_12 Start: 9771, Stop: 11516, Start Num: 53
Candidate Starts for Keitherie_12:
(Start: 53 @9771 has 282 MA's), (147, 10305), (172, 10431), (183, 10482), (201, 10590), (242, 10884),
(252, 10941), (260, 10986), (261, 10995), (263, 11004), (284, 11127), (296, 11205), (297, 11214),
(306, 11289), (311, 11325), (316, 11352), (319, 11370), (322, 11394), (330, 11448), (331, 11454),
(333, 11466),

Gene: Kelcole_23 Start: 13023, Stop: 14801, Start Num: 50
Candidate Starts for Kelcole_23:
(Start: 50 @13023 has 33 MA's), (55, 13035), (97, 13377), (133, 13494), (153, 13620), (180, 13734),
(188, 13764), (219, 13977), (232, 14058), (233, 14067), (245, 14145), (247, 14151), (249, 14166),
(272, 14310), (278, 14352), (288, 14403), (305, 14550), (307, 14559), (328, 14709), (331, 14721),

Gene: Khan1_12 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Khan1_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: Kheth_15 Start: 12411, Stop: 14441, Start Num: 48
Candidate Starts for Kheth_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12633), (99, 12747), (141, 12912),
(152, 12984), (183, 13101), (194, 13161), (197, 13179), (201, 13233), (214, 13314), (252, 13587),
(253, 13590), (263, 13656), (302, 13914), (311, 13974), (312, 13983), (316, 14001), (321, 14025),
(330, 14097), (338, 14145), (347, 14289), (349, 14328), (353, 14385), (354, 14421), (355, 14427),

Gene: Kikipoo_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for Kikipoo_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: KillerQueen_25 Start: 12845, Stop: 14623, Start Num: 50
Candidate Starts for KillerQueen_25:
(Start: 50 @12845 has 33 MA's), (55, 12857), (97, 13199), (133, 13316), (153, 13442), (180, 13556),
(188, 13586), (219, 13799), (232, 13880), (233, 13889), (245, 13967), (247, 13973), (249, 13988),
(272, 14132), (278, 14174), (288, 14225), (305, 14372), (307, 14381), (328, 14531), (331, 14543),

Gene: Kimbrough_12 Start: 9464, Stop: 11212, Start Num: 53
Candidate Starts for Kimbrough_12:
(Start: 53 @9464 has 282 MA's), (147, 10001), (172, 10127), (183, 10178), (201, 10286), (242, 10580),
(252, 10637), (260, 10682), (261, 10691), (263, 10700), (284, 10823), (296, 10901), (297, 10910),
(306, 10985), (311, 11021), (316, 11048), (319, 11066), (322, 11090), (330, 11144), (331, 11150),
(333, 11162),

Gene: KingTut_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for KingTut_11:
(Start: 53 @9465 has 282 MA's), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578),
(252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908),
(306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148),
(333, 11160),

Gene: KingVeVeVe_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for KingVeVeVe_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577),
(242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192),
(297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435),
(331, 11441), (333, 11453),

Gene: KingstonB_44 Start: 22688, Stop: 24478, Start Num: 34
Candidate Starts for KingstonB_44:
(18, 22628), (30, 22682), (Start: 34 @22688 has 47 MA's), (135, 23225), (141, 23258), (143, 23270),
(168, 23390), (170, 23393), (179, 23450), (207, 23603), (209, 23609), (212, 23636), (218, 23678),
(258, 23936), (260, 23939), (269, 23981), (270, 23984), (276, 24038), (277, 24044), (294, 24140),
(296, 24155), (297, 24164), (326, 24389), (331, 24425), (333, 24437), (336, 24461),

Gene: Kithara_25 Start: 14593, Stop: 16431, Start Num: 29
Candidate Starts for Kithara_25:
(Start: 29 @14593 has 1 MA's), (40, 14623), (76, 14836), (116, 15118), (186, 15439), (202, 15559),
(217, 15661), (249, 15850), (265, 15946), (269, 15958), (291, 16096), (297, 16141), (313, 16249),

(322, 16306), (323, 16312), (327, 16333),

Gene: KlimbOn_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for KlimbOn_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: Kloppinator_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Kloppinator_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868),
(252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198),
(306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438),
(333, 11450),

Gene: Knocker_17 Start: 13813, Stop: 15774, Start Num: 11
Candidate Starts for Knocker_17:
(8, 13765), (Start: 11 @13813 has 1 MA's), (17, 13861), (Start: 32 @13918 has 1 MA's), (47, 13966),
(61, 14026), (64, 14041), (72, 14113), (86, 14230), (165, 14641), (167, 14650), (172, 14671), (176,
14692), (177, 14698), (201, 14848), (206, 14875), (221, 14977), (224, 14995), (229, 15034), (237,
15103), (239, 15127), (242, 15142), (258, 15244), (268, 15286), (281, 15367), (284, 15388), (290,
15415), (296, 15463), (297, 15472), (298, 15496), (300, 15514), (303, 15526), (305, 15541), (307,
15550), (308, 15553), (311, 15583), (314, 15601), (316, 15610), (319, 15628), (322, 15652), (331,
15712), (333, 15724),

Gene: Kolhan_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Kolhan_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141,
12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252,
13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321,
14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355,
14424),

Gene: Kronus_13 Start: 11609, Stop: 13624, Start Num: 49
Candidate Starts for Kronus_13:
(Start: 46 @11597 has 6 MA's), (Start: 49 @11609 has 44 MA's), (57, 11624), (70, 11702), (74, 11750),
(141, 12107), (145, 12131), (183, 12296), (192, 12344), (201, 12416), (214, 12497), (221, 12551),
(252, 12770), (253, 12773), (261, 12827), (271, 12875), (281, 12938), (284, 12959), (285, 12962),
(311, 13154), (312, 13163), (316, 13181), (319, 13199), (320, 13202), (325, 13244), (330, 13277),
(345, 13367), (346, 13400), (349, 13517),

Gene: Kwadwo_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Kwadwo_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577),
(252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907),
(306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147),
(333, 11159),

Gene: Kwksand96_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for Kwksand96_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423),
(252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753),

(306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993),
(333, 11005),

Gene: Kyva_27 Start: 14519, Stop: 16351, Start Num: 52
Candidate Starts for Kyva_27:
(Start: 52 @14519 has 36 MA's), (55, 14528), (71, 14627), (112, 14960), (153, 15161), (157, 15176),
(171, 15236), (180, 15284), (188, 15314), (205, 15431), (206, 15437), (219, 15530), (232, 15611),
(247, 15704), (249, 15719), (254, 15767), (259, 15791), (270, 15839), (272, 15863), (280, 15911),
(288, 15953), (304, 16088), (307, 16109), (313, 16154), (316, 16169), (327, 16238), (331, 16271),

Gene: Labeouficaum_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Labeouficaum_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429),
(252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759),
(306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999),
(333, 11011),

Gene: Lambano_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Lambano_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809),
(141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139),
(201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643),
(268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988),
(321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Lars_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for Lars_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029),
(152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704),
(253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142),
(330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: Larson_13 Start: 9774, Stop: 11519, Start Num: 53
Candidate Starts for Larson_13:
(Start: 53 @9774 has 282 MA's), (147, 10308), (172, 10434), (183, 10485), (201, 10593), (242, 10887),
(252, 10944), (260, 10989), (261, 10998), (263, 11007), (284, 11130), (296, 11208), (297, 11217),
(306, 11292), (311, 11328), (316, 11355), (319, 11373), (322, 11397), (330, 11451), (331, 11457),
(333, 11469),

Gene: LasagnaCat_12 Start: 9766, Stop: 11511, Start Num: 53
Candidate Starts for LasagnaCat_12:
(Start: 53 @9766 has 282 MA's), (147, 10300), (172, 10426), (183, 10477), (201, 10585), (242, 10879),
(252, 10936), (260, 10981), (261, 10990), (263, 10999), (284, 11122), (296, 11200), (297, 11209),
(306, 11284), (311, 11320), (316, 11347), (319, 11365), (322, 11389), (330, 11443), (331, 11449),
(333, 11461),

Gene: Lasso_12 Start: 9757, Stop: 11493, Start Num: 53
Candidate Starts for Lasso_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10282), (172, 10408), (183, 10459), (201, 10567),
(242, 10861), (252, 10918), (260, 10963), (261, 10972), (263, 10981), (284, 11104), (296, 11182),
(297, 11191), (306, 11266), (311, 11302), (316, 11329), (319, 11347), (322, 11371), (330, 11425),
(331, 11431), (333, 11443),

Gene: Laurie_15 Start: 12409, Stop: 14436, Start Num: 48
Candidate Starts for Laurie_15:
(Start: 48 @12409 has 37 MA's), (74, 12553), (77, 12574), (84, 12628), (99, 12742), (141, 12907),
(152, 12979), (183, 13096), (194, 13156), (197, 13174), (201, 13228), (214, 13309), (252, 13582),
(253, 13585), (263, 13651), (302, 13909), (311, 13969), (312, 13978), (316, 13996), (321, 14020),
(330, 14092), (338, 14140), (347, 14284), (349, 14323), (353, 14380), (354, 14416), (355, 14422),

Gene: LeeLot_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for LeeLot_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Lego3393_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Lego3393_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868),
(252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198),
(306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438),
(333, 11450),

Gene: Legolas_11 Start: 9465, Stop: 11207, Start Num: 53
Candidate Starts for Legolas_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9996), (172, 10122), (183, 10173), (201, 10281),
(242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896),
(297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139),
(331, 11145), (333, 11157),

Gene: Lehmann_12 Start: 9307, Stop: 11052, Start Num: 53
Candidate Starts for Lehmann_12:
(Start: 53 @9307 has 282 MA's), (76, 9454), (147, 9841), (172, 9967), (183, 10018), (201, 10126),
(242, 10420), (252, 10477), (260, 10522), (261, 10531), (263, 10540), (284, 10663), (296, 10741),
(297, 10750), (306, 10825), (311, 10861), (316, 10888), (319, 10906), (322, 10930), (330, 10984),
(331, 10990), (333, 11002),

Gene: LeiMonet_12 Start: 9460, Stop: 11205, Start Num: 53
Candidate Starts for LeiMonet_12:
(Start: 53 @9460 has 282 MA's), (76, 9607), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: LemonSlice_12 Start: 9465, Stop: 11213, Start Num: 53
Candidate Starts for LemonSlice_12:
(Start: 53 @9465 has 282 MA's), (147, 10002), (172, 10128), (183, 10179), (201, 10287), (242, 10581),
(252, 10638), (260, 10683), (261, 10692), (263, 10701), (284, 10824), (296, 10902), (297, 10911),
(306, 10986), (311, 11022), (316, 11049), (319, 11067), (322, 11091), (330, 11145), (331, 11151),
(333, 11163),

Gene: Lephleur_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Lephleur_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141,
12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252,

13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: LestyG_14 Start: 11030, Stop: 13045, Start Num: 49
Candidate Starts for LestyG_14:
(Start: 49 @11030 has 44 MA's), (57, 11045), (70, 11123), (74, 11171), (141, 11528), (145, 11552), (183, 11717), (192, 11765), (201, 11837), (214, 11918), (221, 11972), (252, 12191), (253, 12194), (261, 12248), (271, 12296), (281, 12359), (284, 12380), (285, 12383), (311, 12575), (312, 12584), (316, 12602), (319, 12620), (320, 12623), (325, 12665), (330, 12698), (345, 12788), (346, 12821), (349, 12938),

Gene: Ligma_11 Start: 9837, Stop: 11540, Start Num: 51
Candidate Starts for Ligma_11:
(Start: 51 @9837 has 21 MA's), (74, 9972), (109, 10188), (121, 10209), (141, 10284), (150, 10347), (176, 10446), (190, 10506), (203, 10605), (242, 10884), (252, 10941), (263, 11007), (281, 11109), (284, 11130), (288, 11148), (302, 11265), (311, 11325), (316, 11352), (321, 11376), (324, 11412), (330, 11448), (331, 11454), (344, 11529),

Gene: LilMcDreamy_13 Start: 12145, Stop: 13986, Start Num: 32
Candidate Starts for LilMcDreamy_13:
(Start: 32 @12145 has 1 MA's), (42, 12181), (47, 12199), (58, 12232), (65, 12271), (69, 12298), (105, 12613), (123, 12649), (141, 12724), (147, 12757), (158, 12826), (163, 12850), (165, 12853), (167, 12862), (171, 12880), (176, 12904), (201, 13063), (205, 13084), (229, 13246), (238, 13321), (242, 13354), (252, 13411), (253, 13414), (261, 13465), (263, 13474), (273, 13540), (284, 13597), (297, 13684), (306, 13759), (308, 13765), (311, 13795), (316, 13822), (322, 13864), (326, 13888), (333, 13936),

Gene: LilSmirk_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for LilSmirk_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: LittleDigger_11 Start: 10372, Stop: 12165, Start Num: 34
Candidate Starts for LittleDigger_11:
(Start: 34 @10372 has 47 MA's), (58, 10438), (81, 10588), (83, 10621), (86, 10651), (104, 10783), (117, 10816), (141, 10912), (148, 10951), (158, 11008), (165, 11035), (172, 11065), (176, 11086), (190, 11146), (201, 11233), (224, 11380), (242, 11527), (253, 11587), (255, 11611), (260, 11632), (263, 11650), (268, 11671), (281, 11752), (290, 11800), (297, 11857), (307, 11935), (311, 11968), (316, 11995), (321, 12019), (322, 12037), (326, 12061), (328, 12085), (330, 12091), (331, 12097), (333, 12109),

Gene: LittleMinkey_18 Start: 10995, Stop: 12821, Start Num: 34
Candidate Starts for LittleMinkey_18:
(14, 10929), (16, 10932), (21, 10944), (27, 10971), (Start: 34 @10995 has 47 MA's), (42, 11028), (57, 11070), (60, 11082), (107, 11454), (123, 11487), (147, 11592), (165, 11688), (171, 11715), (201, 11895), (229, 12078), (233, 12120), (242, 12186), (252, 12243), (253, 12246), (268, 12330), (284, 12432), (288, 12453), (297, 12519), (303, 12573), (305, 12588), (311, 12630), (316, 12657), (321, 12681), (322, 12699), (330, 12753), (333, 12771),

Gene: LittleMunchkin_12 Start: 11125, Stop: 12825, Start Num: 51
Candidate Starts for LittleMunchkin_12:
(Start: 51 @11125 has 21 MA's), (74, 11260), (121, 11494), (141, 11569), (148, 11605), (152, 11641),
(176, 11731), (190, 11791), (203, 11890), (242, 12169), (252, 12226), (253, 12229), (255, 12253),
(263, 12292), (281, 12394), (284, 12415), (288, 12433), (302, 12550), (311, 12610), (316, 12637),
(321, 12661), (325, 12700),

Gene: LizLemon_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for LizLemon_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029),
(152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704),
(253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142),
(330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: Llemily_24 Start: 13503, Stop: 15335, Start Num: 52
Candidate Starts for Llemily_24:
(Start: 52 @13503 has 36 MA's), (55, 13512), (71, 13611), (122, 13977), (153, 14145), (157, 14160),
(171, 14220), (180, 14268), (181, 14274), (188, 14298), (205, 14415), (206, 14421), (219, 14514),
(232, 14595), (247, 14688), (249, 14703), (254, 14751), (259, 14775), (270, 14823), (272, 14847),
(280, 14895), (288, 14937), (304, 15072), (305, 15084), (307, 15093), (316, 15153), (327, 15222),
(331, 15255),

Gene: Lolalove_12 Start: 11473, Stop: 13251, Start Num: 34
Candidate Starts for Lolalove_12:
(Start: 34 @11473 has 47 MA's), (58, 11539), (81, 11689), (83, 11722), (86, 11752), (104, 11881),
(117, 11914), (141, 12010), (158, 12106), (165, 12133), (171, 12160), (172, 12163), (176, 12184),
(201, 12331), (224, 12478), (242, 12625), (253, 12685), (255, 12709), (258, 12727), (263, 12748),
(268, 12769), (281, 12850), (290, 12898), (297, 12955), (300, 12997), (305, 13024), (308, 13036),
(311, 13066), (316, 13093), (321, 13117), (322, 13135), (326, 13159), (330, 13189), (331, 13195),

Gene: Lonelysoil_24 Start: 13748, Stop: 15580, Start Num: 52
Candidate Starts for Lonelysoil_24:
(Start: 52 @13748 has 36 MA's), (55, 13757), (71, 13856), (122, 14222), (153, 14390), (157, 14405),
(171, 14465), (180, 14513), (181, 14519), (188, 14543), (205, 14660), (206, 14666), (219, 14759),
(232, 14840), (247, 14933), (249, 14948), (254, 14996), (259, 15020), (270, 15068), (272, 15092),
(280, 15140), (288, 15182), (304, 15317), (305, 15329), (307, 15338), (316, 15398), (327, 15467),
(331, 15500),

Gene: Longacauda_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Longacauda_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: Lopsy_11 Start: 9307, Stop: 11049, Start Num: 53
Candidate Starts for Lopsy_11:
(Start: 53 @9307 has 282 MA's), (76, 9454), (147, 9838), (172, 9964), (183, 10015), (201, 10123),
(242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738),
(297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981),
(331, 10987), (333, 10999),

Gene: LostAndPhound_11 Start: 9464, Stop: 11209, Start Num: 53

Candidate Starts for LostAndPhound_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: LuckyMarjie_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for LuckyMarjie_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Lulumae_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Lulumae_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Lulwa_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Lulwa_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Lumine_11 Start: 9452, Stop: 11197, Start Num: 53
Candidate Starts for Lumine_11:
(Start: 53 @9452 has 282 MA's), (76, 9599), (147, 9986), (172, 10112), (183, 10163), (201, 10271), (242, 10565), (252, 10622), (260, 10667), (261, 10676), (263, 10685), (284, 10808), (296, 10886), (297, 10895), (306, 10970), (311, 11006), (316, 11033), (319, 11051), (322, 11075), (330, 11129), (331, 11135), (333, 11147),

Gene: MRabcd_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for MRabcd_11:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9995), (172, 10121), (183, 10172), (201, 10280), (242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895), (297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138), (331, 11144), (333, 11156),

Gene: Mag7_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Mag7_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: Magic8_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Magic8_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),

(333, 11449),

Gene: Magpie_12 Start: 11631, Stop: 13409, Start Num: 34
Candidate Starts for Magpie_12:
(Start: 34 @11631 has 47 MA's), (58, 11697), (81, 11847), (83, 11880), (86, 11910), (104, 12039),
(141, 12168), (148, 12207), (158, 12264), (165, 12291), (171, 12318), (172, 12321), (176, 12342),
(201, 12489), (224, 12636), (242, 12783), (253, 12843), (255, 12867), (258, 12885), (263, 12906),
(268, 12927), (281, 13008), (290, 13056), (292, 13074), (297, 13113), (300, 13155), (305, 13182),
(308, 13194), (311, 13224), (316, 13251), (321, 13275), (322, 13293), (326, 13317), (330, 13347),
(331, 13353),

Gene: Makar_45 Start: 23158, Stop: 24975, Start Num: 34
Candidate Starts for Makar_45:
(18, 23098), (30, 23152), (Start: 34 @23158 has 47 MA's), (59, 23251), (135, 23707), (141, 23740),
(143, 23752), (148, 23776), (168, 23872), (170, 23875), (179, 23932), (207, 24085), (209, 24091),
(212, 24118), (218, 24160), (258, 24418), (260, 24421), (269, 24463), (270, 24466), (275, 24517),
(276, 24520), (287, 24574), (290, 24589), (294, 24622), (297, 24646), (312, 24787), (331, 24907),
(333, 24919),

Gene: MakoManhole_13 Start: 11332, Stop: 13014, Start Num: 51
Candidate Starts for MakoManhole_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11656), (141, 11767), (145, 11791),
(152, 11839), (176, 11929), (203, 12088), (205, 12097), (212, 12145), (224, 12223), (228, 12256),
(233, 12304), (242, 12370), (251, 12418), (252, 12427), (253, 12430), (264, 12502), (270, 12520),
(275, 12571), (284, 12616), (287, 12628), (290, 12643), (305, 12769), (311, 12811), (315, 12835),
(316, 12838), (319, 12856),

Gene: Mana_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Mana_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Manad_11 Start: 9308, Stop: 11053, Start Num: 53
Candidate Starts for Manad_11:
(Start: 53 @9308 has 282 MA's), (76, 9455), (147, 9842), (172, 9968), (183, 10019), (201, 10127),
(242, 10421), (252, 10478), (260, 10523), (261, 10532), (263, 10541), (284, 10664), (296, 10742),
(297, 10751), (306, 10826), (311, 10862), (316, 10889), (319, 10907), (322, 10931), (330, 10985),
(331, 10991), (333, 11003),

Gene: Mao1_9 Start: 8906, Stop: 10672, Start Num: 50
Candidate Starts for Mao1_9:
(Start: 22 @8789 has 1 MA's), (28, 8816), (Start: 50 @8906 has 33 MA's), (99, 9263), (118, 9338),
(130, 9374), (139, 9413), (141, 9428), (146, 9464), (151, 9506), (152, 9512), (185, 9650), (230, 9959),
(245, 10061), (251, 10097), (252, 10106), (266, 10190), (277, 10250), (281, 10265), (315, 10505),
(318, 10523), (319, 10526), (332, 10616),

Gene: Marcie_29 Start: 13698, Stop: 15482, Start Num: 50
Candidate Starts for Marcie_29:
(Start: 50 @13698 has 33 MA's), (55, 13710), (97, 14058), (133, 14175), (153, 14301), (171, 14367),
(180, 14415), (188, 14445), (219, 14658), (232, 14739), (233, 14748), (245, 14826), (247, 14832),
(249, 14847), (272, 14991), (278, 15033), (288, 15084), (305, 15231), (307, 15240), (331, 15402),

Gene: Mariokart_11 Start: 9894, Stop: 11576, Start Num: 51
Candidate Starts for Mariokart_11:
(41, 9858), (42, 9861), (45, 9870), (Start: 51 @9894 has 21 MA's), (74, 10029), (92, 10143), (109, 10227), (127, 10263), (141, 10323), (176, 10485), (190, 10545), (203, 10644), (210, 10689), (233, 10857), (242, 10923), (252, 10980), (263, 11046), (268, 11067), (270, 11073), (275, 11124), (281, 11148), (284, 11169), (288, 11187), (290, 11196), (297, 11253), (306, 11328), (311, 11364), (314, 11382), (316, 11391),

Gene: Marley1013_14 Start: 11810, Stop: 13825, Start Num: 49
Candidate Starts for Marley1013_14:
(Start: 49 @11810 has 44 MA's), (57, 11825), (70, 11903), (74, 11951), (141, 12308), (145, 12332), (183, 12497), (192, 12545), (201, 12617), (214, 12698), (221, 12752), (252, 12971), (253, 12974), (261, 13028), (271, 13076), (281, 13139), (284, 13160), (285, 13163), (311, 13355), (312, 13364), (316, 13382), (319, 13400), (320, 13403), (325, 13445), (330, 13478), (349, 13718),

Gene: Marlia_14 Start: 11012, Stop: 13027, Start Num: 49
Candidate Starts for Marlia_14:
(Start: 46 @11000 has 6 MA's), (Start: 49 @11012 has 44 MA's), (57, 11027), (70, 11105), (74, 11153), (141, 11510), (145, 11534), (183, 11699), (192, 11747), (201, 11819), (214, 11900), (221, 11954), (252, 12173), (253, 12176), (261, 12230), (271, 12278), (281, 12341), (284, 12362), (285, 12365), (311, 12557), (312, 12566), (316, 12584), (319, 12602), (320, 12605), (325, 12647), (330, 12680), (345, 12770), (346, 12803), (349, 12920),

Gene: Maru_11 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Maru_11:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281), (242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896), (297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139), (331, 11145), (333, 11157),

Gene: Mashley_23 Start: 14088, Stop: 15914, Start Num: 52
Candidate Starts for Mashley_23:
(Start: 52 @14088 has 36 MA's), (55, 14097), (71, 14196), (112, 14523), (153, 14724), (157, 14739), (171, 14799), (180, 14847), (188, 14877), (205, 14994), (206, 15000), (219, 15093), (232, 15174), (247, 15267), (249, 15282), (254, 15330), (259, 15354), (270, 15402), (272, 15426), (280, 15474), (288, 15516), (304, 15651), (307, 15672), (316, 15732), (327, 15801), (331, 15834),

Gene: Mask_10 Start: 8907, Stop: 10673, Start Num: 50
Candidate Starts for Mask_10:
(Start: 22 @8790 has 1 MA's), (28, 8817), (Start: 50 @8907 has 33 MA's), (99, 9264), (118, 9339), (130, 9375), (139, 9414), (141, 9429), (146, 9465), (151, 9507), (152, 9513), (185, 9651), (230, 9960), (245, 10062), (251, 10098), (252, 10107), (266, 10191), (277, 10251), (281, 10266), (315, 10506), (318, 10524), (319, 10527), (332, 10617),

Gene: Maskar_11 Start: 9304, Stop: 11049, Start Num: 53
Candidate Starts for Maskar_11:
(Start: 53 @9304 has 282 MA's), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987), (333, 10999),

Gene: MasterPo_15 Start: 12411, Stop: 14438, Start Num: 48

Candidate Starts for MasterPo_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: Matalotodo_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Matalotodo_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: Mcshane_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Mcshane_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Mecca_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Mecca_11:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9995), (172, 10121), (183, 10172), (201, 10280), (242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895), (297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138), (331, 11144), (333, 11156),

Gene: Megabear_9 Start: 10537, Stop: 12588, Start Num: 50
Candidate Starts for Megabear_9:
(Start: 50 @10537 has 33 MA's), (57, 10549), (61, 10576), (70, 10630), (74, 10678), (87, 10783), (Start: 98 @10888 has 1 MA's), (118, 10960), (149, 11095), (152, 11110), (159, 11134), (166, 11164), (177, 11209), (181, 11230), (198, 11338), (201, 11356), (211, 11425), (212, 11431), (216, 11455), (226, 11524), (242, 11650), (249, 11683), (252, 11707), (256, 11737), (263, 11773), (270, 11800), (281, 11875), (288, 11914), (297, 11980), (306, 12055), (315, 12115), (330, 12214), (331, 12220), (342, 12283), (348, 12439), (351, 12490), (352, 12496), (356, 12580),

Gene: Megamind20_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Megamind20_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Megatron_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for Megatron_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Melc17_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Melc17_12:

(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (206, 10600), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: MelsMeow_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for MelsMeow_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423), (252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753), (306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993), (333, 11005),

Gene: Mentos_29 Start: 15175, Stop: 17001, Start Num: 52
Candidate Starts for Mentos_29:
(Start: 52 @15175 has 36 MA's), (55, 15184), (71, 15283), (112, 15610), (153, 15811), (157, 15826), (171, 15886), (180, 15934), (188, 15964), (205, 16081), (206, 16087), (219, 16180), (232, 16261), (247, 16354), (249, 16369), (254, 16417), (259, 16441), (270, 16489), (272, 16513), (280, 16561), (288, 16603), (304, 16738), (307, 16759), (316, 16819), (327, 16888), (331, 16921),

Gene: Mesh1_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Mesh1_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Mesmerelda_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Mesmerelda_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: MichaelPhcott_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for MichaelPhcott_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: Mikota_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Mikota_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Mila11_28 Start: 15055, Stop: 16887, Start Num: 52
Candidate Starts for Mila11_28:
(Start: 52 @15055 has 36 MA's), (55, 15064), (71, 15163), (122, 15529), (153, 15697), (157, 15712), (171, 15772), (180, 15820), (181, 15826), (188, 15850), (204, 15964), (205, 15967), (206, 15973), (219, 16066), (232, 16147), (247, 16240), (249, 16255), (254, 16303), (259, 16327), (270, 16375), (272, 16399), (280, 16447), (288, 16489), (304, 16624), (305, 16636), (307, 16645), (316, 16705),

(327, 16774), (331, 16807),

Gene: MiniBoss_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for MiniBoss_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: MitKao_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for MitKao_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Mithril_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Mithril_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: MmasiCarm_14 Start: 11026, Stop: 13038, Start Num: 49
Candidate Starts for MmasiCarm_14:
(Start: 46 @11014 has 6 MA's), (Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167),
(141, 11521), (145, 11545), (183, 11710), (192, 11758), (201, 11830), (214, 11911), (221, 11965),
(252, 12184), (253, 12187), (261, 12241), (271, 12289), (281, 12352), (284, 12373), (285, 12376),
(311, 12568), (312, 12577), (316, 12595), (319, 12613), (320, 12616), (325, 12658), (330, 12691),
(345, 12781), (346, 12814), (349, 12931),

Gene: Morgushi_12 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Morgushi_12:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281),
(242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896),
(297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139),
(331, 11145), (333, 11157),

Gene: MorillMayhem_24 Start: 14081, Stop: 15913, Start Num: 52
Candidate Starts for MorillMayhem_24:
(Start: 52 @14081 has 36 MA's), (55, 14090), (71, 14189), (122, 14555), (153, 14723), (157, 14738),
(171, 14798), (180, 14846), (181, 14852), (188, 14876), (204, 14990), (205, 14993), (206, 14999),
(219, 15092), (232, 15173), (247, 15266), (249, 15281), (254, 15329), (259, 15353), (270, 15401),
(272, 15425), (280, 15473), (288, 15515), (304, 15650), (305, 15662), (307, 15671), (316, 15731),
(327, 15800), (331, 15833),

Gene: Mortcellus_13 Start: 11664, Stop: 13679, Start Num: 49
Candidate Starts for Mortcellus_13:
(Start: 46 @11652 has 6 MA's), (Start: 49 @11664 has 44 MA's), (57, 11679), (70, 11757), (74, 11805),
(141, 12162), (145, 12186), (183, 12351), (192, 12399), (201, 12471), (214, 12552), (221, 12606),
(252, 12825), (253, 12828), (261, 12882), (271, 12930), (281, 12993), (284, 13014), (285, 13017),
(311, 13209), (312, 13218), (316, 13236), (319, 13254), (320, 13257), (325, 13299), (330, 13332),

(345, 13422), (346, 13455), (349, 13572),

Gene: Morty_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Morty_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: Morty007_14 Start: 11810, Stop: 13825, Start Num: 49
Candidate Starts for Morty007_14:
(Start: 49 @11810 has 44 MA's), (57, 11825), (70, 11903), (74, 11951), (141, 12308), (145, 12332),
(183, 12497), (192, 12545), (201, 12617), (214, 12698), (221, 12752), (252, 12971), (253, 12974),
(261, 13028), (271, 13076), (281, 13139), (284, 13160), (285, 13163), (311, 13355), (312, 13364),
(316, 13382), (319, 13400), (320, 13403), (325, 13445), (330, 13478), (349, 13718),

Gene: Mosaic_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Mosaic_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: MossRose_13 Start: 11332, Stop: 13014, Start Num: 51
Candidate Starts for MossRose_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11656), (141, 11767), (145, 11791),
(152, 11839), (176, 11929), (203, 12088), (205, 12097), (212, 12145), (224, 12223), (228, 12256),
(233, 12304), (242, 12370), (251, 12418), (252, 12427), (253, 12430), (264, 12502), (270, 12520),
(275, 12571), (284, 12616), (287, 12628), (290, 12643), (305, 12769), (311, 12811), (315, 12835),
(316, 12838), (319, 12856),

Gene: MrPhizzler_12 Start: 9460, Stop: 11202, Start Num: 53
Candidate Starts for MrPhizzler_12:
(Start: 53 @9460 has 282 MA's), (76, 9607), (147, 9991), (172, 10117), (183, 10168), (201, 10276),
(242, 10570), (252, 10627), (260, 10672), (261, 10681), (263, 10690), (284, 10813), (296, 10891),
(297, 10900), (306, 10975), (311, 11011), (316, 11038), (319, 11056), (322, 11080), (330, 11134),
(331, 11140), (333, 11152),

Gene: Mudslide_12 Start: 11724, Stop: 13502, Start Num: 34
Candidate Starts for Mudslide_12:
(Start: 34 @11724 has 47 MA's), (58, 11790), (81, 11940), (83, 11973), (86, 12003), (104, 12132),
(117, 12165), (141, 12261), (158, 12357), (165, 12384), (171, 12411), (172, 12414), (176, 12435),
(201, 12582), (224, 12729), (242, 12876), (253, 12936), (255, 12960), (258, 12978), (263, 12999),
(268, 13020), (281, 13101), (290, 13149), (297, 13206), (300, 13248), (305, 13275), (308, 13287),
(311, 13317), (316, 13344), (321, 13368), (322, 13386), (326, 13410), (330, 13440), (331, 13446),

Gene: Mulan_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Mulan_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Mulaychimus_14 Start: 11003, Stop: 13018, Start Num: 49
Candidate Starts for Mulaychimus_14:
(Start: 49 @11003 has 44 MA's), (57, 11018), (70, 11096), (74, 11144), (141, 11501), (145, 11525),
(183, 11690), (192, 11738), (201, 11810), (214, 11891), (221, 11945), (252, 12164), (253, 12167),
(261, 12221), (271, 12269), (281, 12332), (284, 12353), (285, 12356), (311, 12548), (312, 12557),
(316, 12575), (319, 12593), (320, 12596), (325, 12638), (330, 12671), (345, 12761), (346, 12794),
(349, 12911),

Gene: Murdoc_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Murdoc_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: Mutante_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Mutante_11:
(Start: 53 @9461 has 282 MA's), (147, 9995), (172, 10121), (183, 10172), (201, 10280), (242, 10574),
(252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895), (297, 10904),
(306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138), (331, 11144),
(333, 11156),

Gene: Mysterious_13 Start: 11644, Stop: 13491, Start Num: 34
Candidate Starts for Mysterious_13:
(Start: 34 @11644 has 47 MA's), (42, 11677), (58, 11728), (75, 11857), (82, 11896), (141, 12226),
(147, 12259), (158, 12328), (165, 12355), (167, 12364), (171, 12382), (176, 12406), (177, 12412),
(201, 12565), (221, 12694), (229, 12748), (238, 12823), (242, 12856), (252, 12913), (253, 12916),
(260, 12961), (261, 12970), (263, 12979), (268, 13000), (275, 13057), (284, 13102), (288, 13123),
(305, 13258), (306, 13264), (311, 13300), (315, 13324), (316, 13327), (321, 13351), (322, 13369),

Gene: NHagos_11 Start: 9813, Stop: 11498, Start Num: 51
Candidate Starts for NHagos_11:
(Start: 51 @9813 has 21 MA's), (70, 9900), (74, 9948), (124, 10185), (141, 10254), (152, 10326), (176,
10416), (193, 10491), (203, 10575), (205, 10584), (223, 10707), (233, 10788), (242, 10854), (252,
10911), (253, 10914), (264, 10986), (270, 11004), (271, 11016), (284, 11100), (287, 11112), (290,
11127), (305, 11253), (311, 11295), (312, 11304), (316, 11322), (321, 11346), (341, 11484),

Gene: Nacho_0012 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Nacho_0012:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576),
(242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191),
(297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434),
(331, 11440), (333, 11452),

Gene: Namago_25 Start: 13649, Stop: 15481, Start Num: 52
Candidate Starts for Namago_25:
(Start: 52 @13649 has 36 MA's), (55, 13658), (71, 13757), (112, 14090), (153, 14291), (157, 14306),
(171, 14366), (180, 14414), (188, 14444), (205, 14561), (206, 14567), (219, 14660), (232, 14741),
(247, 14834), (249, 14849), (254, 14897), (259, 14921), (270, 14969), (272, 14993), (280, 15041),
(288, 15083), (304, 15218), (307, 15239), (313, 15284), (316, 15299), (327, 15368), (331, 15401),

Gene: Nanao_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Nanao_11:

(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643), (268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988), (321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Nangang_13 Start: 11390, Stop: 13231, Start Num: 34
Candidate Starts for Nangang_13:
(Start: 26 @11366 has 2 MA's), (Start: 34 @11390 has 47 MA's), (42, 11423), (58, 11474), (62, 11498), (75, 11603), (90, 11708), (141, 11966), (147, 11999), (158, 12068), (172, 12125), (177, 12152), (201, 12305), (223, 12449), (229, 12488), (242, 12596), (252, 12653), (253, 12656), (260, 12701), (261, 12710), (263, 12719), (275, 12797), (284, 12842), (288, 12863), (297, 12929), (305, 12998), (311, 13040), (315, 13064), (316, 13067), (321, 13091), (322, 13109), (328, 13157),

Gene: Nathan_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Nathan_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Nehemiah_12 Start: 11644, Stop: 13491, Start Num: 34
Candidate Starts for Nehemiah_12:
(Start: 34 @11644 has 47 MA's), (42, 11677), (58, 11728), (75, 11857), (82, 11896), (141, 12226), (147, 12259), (158, 12328), (165, 12355), (167, 12364), (171, 12382), (176, 12406), (177, 12412), (201, 12565), (221, 12694), (229, 12748), (238, 12823), (242, 12856), (252, 12913), (253, 12916), (260, 12961), (261, 12970), (263, 12979), (268, 13000), (275, 13057), (284, 13102), (288, 13123), (305, 13258), (306, 13264), (311, 13300), (315, 13324), (316, 13327), (321, 13351), (322, 13369),

Gene: Neos5_14 Start: 11816, Stop: 13831, Start Num: 49
Candidate Starts for Neos5_14:
(Start: 49 @11816 has 44 MA's), (57, 11831), (70, 11909), (74, 11957), (141, 12314), (145, 12338), (183, 12503), (192, 12551), (201, 12623), (214, 12704), (221, 12758), (252, 12977), (253, 12980), (261, 13034), (271, 13082), (281, 13145), (284, 13166), (285, 13169), (311, 13361), (312, 13370), (316, 13388), (319, 13406), (320, 13409), (325, 13451), (330, 13484), (345, 13574), (346, 13607), (349, 13724),

Gene: Newman_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Newman_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Nicole21_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Nicole21_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Nigel_10 Start: 10274, Stop: 12070, Start Num: 34
Candidate Starts for Nigel_10:

(Start: 34 @10274 has 47 MA's), (41, 10304), (58, 10340), (75, 10469), (81, 10490), (86, 10553), (129, 10760), (141, 10817), (148, 10856), (158, 10913), (171, 10967), (172, 10970), (176, 10991), (177, 10997), (178, 11000), (190, 11051), (201, 11138), (233, 11366), (236, 11378), (242, 11432), (253, 11492), (255, 11516), (260, 11537), (263, 11555), (268, 11576), (281, 11657), (290, 11705), (307, 11840), (311, 11873), (316, 11900), (319, 11918), (321, 11924), (322, 11942), (328, 11990), (330, 11996), (331, 12002), (333, 12014),

Gene: Nikan_21 Start: 13481, Stop: 15208, Start Num: 50
Candidate Starts for Nikan_21:
(Start: 31 @13418 has 1 MA's), (37, 13433), (Start: 50 @13481 has 33 MA's), (67, 13547), (161, 14087), (215, 14390), (219, 14420), (234, 14516), (235, 14519), (236, 14522), (243, 14582), (272, 14744), (281, 14795), (286, 14828), (296, 14891), (308, 14978), (310, 15002), (316, 15035), (328, 15125),

Gene: Nike_25 Start: 14547, Stop: 16379, Start Num: 52
Candidate Starts for Nike_25:
(Start: 52 @14547 has 36 MA's), (55, 14556), (71, 14655), (122, 15021), (153, 15189), (157, 15204), (171, 15264), (180, 15312), (181, 15318), (188, 15342), (205, 15459), (206, 15465), (219, 15558), (232, 15639), (247, 15732), (249, 15747), (254, 15795), (259, 15819), (270, 15867), (272, 15891), (280, 15939), (288, 15981), (304, 16116), (305, 16128), (307, 16137), (316, 16197), (327, 16266), (331, 16299),

Gene: Nozo_14 Start: 11791, Stop: 13806, Start Num: 49
Candidate Starts for Nozo_14:
(Start: 49 @11791 has 44 MA's), (57, 11806), (70, 11884), (74, 11932), (141, 12289), (145, 12313), (183, 12478), (192, 12526), (201, 12598), (214, 12679), (221, 12733), (252, 12952), (253, 12955), (261, 13009), (271, 13057), (281, 13120), (284, 13141), (285, 13144), (311, 13336), (312, 13345), (316, 13363), (319, 13381), (320, 13384), (325, 13426), (330, 13459), (345, 13549), (346, 13582), (349, 13699),

Gene: Numberten_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Numberten_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Nyala_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Nyala_11:
(Start: 53 @9465 has 282 MA's), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: OSmaximus_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for OSmaximus_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Obutu_14 Start: 11021, Stop: 13036, Start Num: 49
Candidate Starts for Obutu_14:

(Start: 46 @11009 has 6 MA's), (Start: 49 @11021 has 44 MA's), (57, 11036), (70, 11114), (74, 11162), (141, 11519), (145, 11543), (183, 11708), (192, 11756), (201, 11828), (214, 11909), (221, 11963), (252, 12182), (253, 12185), (261, 12239), (271, 12287), (281, 12350), (284, 12371), (285, 12374), (311, 12566), (312, 12575), (316, 12593), (319, 12611), (320, 12614), (325, 12656), (330, 12689), (345, 12779), (346, 12812), (349, 12929),

Gene: Olak_11 Start: 9462, Stop: 11207, Start Num: 53
Candidate Starts for Olak_11:
(Start: 53 @9462 has 282 MA's), (76, 9609), (147, 9996), (172, 10122), (183, 10173), (201, 10281), (242, 10575), (252, 10632), (260, 10677), (261, 10686), (263, 10695), (284, 10818), (296, 10896), (297, 10905), (306, 10980), (311, 11016), (316, 11043), (319, 11061), (322, 11085), (330, 11139), (331, 11145), (333, 11157),

Gene: Oline_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Oline_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: Olive_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Olive_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: OliverWalter_12 Start: 9753, Stop: 11498, Start Num: 53
Candidate Starts for OliverWalter_12:
(Start: 53 @9753 has 282 MA's), (76, 9900), (147, 10287), (172, 10413), (183, 10464), (201, 10572), (242, 10866), (252, 10923), (260, 10968), (261, 10977), (263, 10986), (284, 11109), (296, 11187), (297, 11196), (306, 11271), (311, 11307), (316, 11334), (319, 11352), (322, 11376), (330, 11430), (331, 11436), (333, 11448),

Gene: Olivio_13 Start: 10875, Stop: 12890, Start Num: 49
Candidate Starts for Olivio_13:
(Start: 49 @10875 has 44 MA's), (57, 10890), (70, 10968), (74, 11016), (141, 11373), (145, 11397), (183, 11562), (192, 11610), (201, 11682), (214, 11763), (221, 11817), (252, 12036), (253, 12039), (261, 12093), (271, 12141), (281, 12204), (284, 12225), (285, 12228), (311, 12420), (312, 12429), (316, 12447), (319, 12465), (320, 12468), (325, 12510), (330, 12543), (349, 12783),

Gene: Ollypop_24 Start: 13443, Stop: 15170, Start Num: 50
Candidate Starts for Ollypop_24:
(Start: 31 @13380 has 1 MA's), (37, 13395), (Start: 50 @13443 has 33 MA's), (67, 13509), (108, 13833), (144, 13953), (161, 14049), (215, 14352), (219, 14382), (234, 14478), (235, 14481), (236, 14484), (243, 14544), (272, 14706), (281, 14757), (286, 14790), (296, 14853), (308, 14940), (312, 14979), (316, 14997),

Gene: Omniscient_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Omniscient_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),

(333, 11455),

Gene: OneBrain_12 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for OneBrain_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: OneinaGillian_24 Start: 12673, Stop: 14451, Start Num: 50
Candidate Starts for OneinaGillian_24:
(Start: 50 @12673 has 33 MA's), (55, 12685), (97, 13027), (133, 13144), (153, 13270), (180, 13384),
(188, 13414), (219, 13627), (232, 13708), (233, 13717), (245, 13795), (247, 13801), (249, 13816),
(272, 13960), (278, 14002), (288, 14053), (305, 14200), (307, 14209), (328, 14359), (331, 14371),
(340, 14431),

Gene: Oosterbaan_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Oosterbaan_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577),
(242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192),
(297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435),
(331, 11441), (333, 11453),

Gene: Opia_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Opia_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141,
12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252,
13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321,
14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355,
14424),

Gene: OrangeOswald_14 Start: 11026, Stop: 13041, Start Num: 49
Candidate Starts for OrangeOswald_14:
(Start: 49 @11026 has 44 MA's), (57, 11041), (70, 11119), (74, 11167), (141, 11524), (145, 11548),
(183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190),
(261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580),
(316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (345, 12784), (346, 12817),
(349, 12934),

Gene: Orfeu_11 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Orfeu_11:
(Start: 53 @9463 has 282 MA's), (147, 9997), (172, 10123), (183, 10174), (201, 10282), (242, 10576),
(252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897), (297, 10906),
(306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140), (331, 11146),
(333, 11158),

Gene: Orion_12 Start: 9755, Stop: 11503, Start Num: 53
Candidate Starts for Orion_12:
(Start: 53 @9755 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: Orwigg_11 Start: 9465, Stop: 11213, Start Num: 53
Candidate Starts for Orwigg_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 10002), (172, 10128), (183, 10179), (201, 10287),
(242, 10581), (252, 10638), (260, 10683), (261, 10692), (263, 10701), (284, 10824), (296, 10902),
(297, 10911), (306, 10986), (311, 11022), (316, 11049), (319, 11067), (322, 11091), (330, 11145),
(331, 11151), (333, 11163),

Gene: PG1_12 Start: 9755, Stop: 11503, Start Num: 53
Candidate Starts for PG1_12:
(Start: 53 @9755 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: PR_09 Start: 10537, Stop: 12600, Start Num: 50
Candidate Starts for PR_09:
(Start: 50 @10537 has 33 MA's), (57, 10549), (61, 10576), (70, 10630), (74, 10678), (87, 10783),
(Start: 98 @10900 has 1 MA's), (118, 10972), (149, 11107), (159, 11146), (166, 11176), (177, 11221),
(181, 11242), (198, 11350), (201, 11368), (211, 11437), (212, 11443), (216, 11467), (226, 11536),
(249, 11695), (252, 11719), (256, 11749), (263, 11785), (270, 11812), (281, 11887), (288, 11926),
(293, 11962), (297, 11992), (306, 12067), (315, 12127), (330, 12226), (331, 12232), (342, 12295),
(348, 12451), (351, 12502), (352, 12508), (356, 12592),

Gene: Pacifista_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Pacifista_11:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9995), (172, 10121), (183, 10172), (201, 10280),
(242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895),
(297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138),
(331, 11144), (333, 11156),

Gene: PallasAthena_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for PallasAthena_12:
(Start: 53 @9465 has 282 MA's), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578),
(252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908),
(306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148),
(333, 11160),

Gene: PenguinLover67_15 Start: 12281, Stop: 14140, Start Num: 34
Candidate Starts for PenguinLover67_15:
(18, 12224), (Start: 34 @12281 has 47 MA's), (60, 12374), (62, 12386), (80, 12518), (113, 12770),
(126, 12806), (141, 12875), (165, 13004), (167, 13013), (172, 13034), (178, 13064), (196, 13154),
(201, 13211), (206, 13238), (233, 13436), (236, 13448), (242, 13502), (252, 13559), (261, 13616),
(263, 13625), (268, 13646), (281, 13727), (284, 13748), (288, 13766), (305, 13901), (311, 13943),
(312, 13952), (316, 13970), (322, 14012), (330, 14066), (336, 14108), (339, 14123),

Gene: Pepe25_23 Start: 13010, Stop: 14788, Start Num: 50
Candidate Starts for Pepe25_23:
(Start: 50 @13010 has 33 MA's), (55, 13022), (97, 13367), (133, 13481), (153, 13607), (171, 13673),
(180, 13721), (188, 13751), (219, 13964), (232, 14045), (233, 14054), (245, 14132), (247, 14138),
(249, 14153), (272, 14297), (278, 14339), (288, 14390), (305, 14537), (307, 14546), (328, 14696),
(331, 14708),

Gene: Phabia_25 Start: 13921, Stop: 15753, Start Num: 52

Candidate Starts for Phabia_25:
(Start: 52 @13921 has 36 MA's), (55, 13930), (71, 14029), (122, 14395), (153, 14563), (157, 14578), (171, 14638), (180, 14686), (181, 14692), (188, 14716), (205, 14833), (206, 14839), (219, 14932), (232, 15013), (247, 15106), (249, 15121), (254, 15169), (259, 15193), (270, 15241), (272, 15265), (280, 15313), (288, 15355), (304, 15490), (305, 15502), (307, 15511), (316, 15571), (327, 15640), (331, 15673),

Gene: Phaedrus_13 Start: 10943, Stop: 12958, Start Num: 49
Candidate Starts for Phaedrus_13:
(Start: 49 @10943 has 44 MA's), (57, 10958), (70, 11036), (74, 11084), (141, 11441), (145, 11465), (183, 11630), (192, 11678), (201, 11750), (214, 11831), (221, 11885), (252, 12104), (253, 12107), (261, 12161), (271, 12209), (281, 12272), (284, 12293), (285, 12296), (311, 12488), (312, 12497), (316, 12515), (319, 12533), (320, 12536), (325, 12578), (330, 12611), (345, 12701), (346, 12734), (349, 12851),

Gene: Phamished_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for Phamished_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Phantasmagoria_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Phantasmagoria_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: Phareon_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Phareon_12:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: PhatCats2014_12 Start: 9758, Stop: 11506, Start Num: 53
Candidate Starts for PhatCats2014_12:
(Start: 53 @9758 has 282 MA's), (147, 10295), (172, 10421), (183, 10472), (201, 10580), (242, 10874), (252, 10931), (260, 10976), (261, 10985), (263, 10994), (284, 11117), (296, 11195), (297, 11204), (306, 11279), (311, 11315), (316, 11342), (319, 11360), (322, 11384), (330, 11438), (331, 11444), (333, 11456),

Gene: PhatLouie_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for PhatLouie_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Phayeta_14 Start: 10902, Stop: 12917, Start Num: 49
Candidate Starts for Phayeta_14:

(Start: 46 @10890 has 6 MA's), (Start: 49 @10902 has 44 MA's), (57, 10917), (70, 10995), (74, 11043), (141, 11400), (145, 11424), (183, 11589), (192, 11637), (201, 11709), (214, 11790), (221, 11844), (252, 12063), (253, 12066), (261, 12120), (271, 12168), (281, 12231), (284, 12252), (285, 12255), (311, 12447), (312, 12456), (316, 12474), (319, 12492), (320, 12495), (325, 12537), (330, 12570), (345, 12660), (346, 12693), (349, 12810),

Gene: Phelemich_13 Start: 11647, Stop: 13494, Start Num: 34
Candidate Starts for Phelemich_13:
(Start: 34 @11647 has 47 MA's), (42, 11680), (58, 11731), (75, 11860), (82, 11899), (141, 12229), (147, 12262), (158, 12331), (165, 12358), (167, 12367), (171, 12385), (176, 12409), (177, 12415), (182, 12436), (201, 12568), (205, 12589), (221, 12697), (229, 12751), (238, 12826), (242, 12859), (252, 12916), (253, 12919), (260, 12964), (261, 12973), (263, 12982), (268, 13003), (275, 13060), (284, 13105), (288, 13126), (305, 13261), (306, 13267), (311, 13303), (315, 13327), (316, 13330), (321, 13354), (322, 13372), (333, 13444),

Gene: PhenghisKhan_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for PhenghisKhan_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: Pherdinand_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Pherdinand_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Phergie_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for Phergie_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423), (252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753), (306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993), (333, 11005),

Gene: Philly_13 Start: 10892, Stop: 12907, Start Num: 49
Candidate Starts for Philly_13:
(Start: 46 @10880 has 6 MA's), (Start: 49 @10892 has 44 MA's), (57, 10907), (70, 10985), (74, 11033), (141, 11390), (145, 11414), (183, 11579), (192, 11627), (201, 11699), (214, 11780), (221, 11834), (252, 12053), (253, 12056), (261, 12110), (271, 12158), (281, 12221), (284, 12242), (285, 12245), (311, 12437), (312, 12446), (316, 12464), (319, 12482), (320, 12485), (325, 12527), (330, 12560), (345, 12650), (346, 12683), (349, 12800),

Gene: Phinky_31 Start: 14788, Stop: 16635, Start Num: 50
Candidate Starts for Phinky_31:
(Start: 50 @14788 has 33 MA's), (55, 14797), (61, 14833), (84, 15022), (153, 15442), (160, 15469), (180, 15565), (188, 15595), (219, 15811), (227, 15853), (231, 15886), (232, 15892), (233, 15901), (239, 15952), (247, 15985), (249, 16000), (272, 16144), (278, 16186), (280, 16192), (288, 16237), (297, 16303), (304, 16372), (305, 16384), (307, 16393), (316, 16453), (330, 16549), (331, 16555),

Gene: Phipps_12 Start: 9757, Stop: 11493, Start Num: 53
Candidate Starts for Phipps_12:

(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10282), (172, 10408), (183, 10459), (201, 10567),
(242, 10861), (252, 10918), (260, 10963), (261, 10972), (263, 10981), (284, 11104), (296, 11182),
(297, 11191), (306, 11266), (311, 11302), (316, 11329), (319, 11347), (322, 11371), (330, 11425),
(331, 11431), (333, 11443),

Gene: Phleuron_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Phleuron_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429),
(252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759),
(306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999),
(333, 11011),

Gene: Phlyer_14 Start: 11748, Stop: 13775, Start Num: 46
Candidate Starts for Phlyer_14:
(Start: 46 @11748 has 6 MA's), (Start: 49 @11760 has 44 MA's), (57, 11775), (70, 11853), (74, 11901),
(141, 12258), (145, 12282), (183, 12447), (192, 12495), (201, 12567), (214, 12648), (221, 12702),
(252, 12921), (253, 12924), (261, 12978), (271, 13026), (281, 13089), (284, 13110), (285, 13113),
(311, 13305), (312, 13314), (316, 13332), (319, 13350), (320, 13353), (325, 13395), (330, 13428),
(345, 13518), (346, 13551), (349, 13668),

Gene: PhrankReynolds_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for PhrankReynolds_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429),
(252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759),
(306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999),
(333, 11011),

Gene: PhrodoBaggins_11 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for PhrodoBaggins_11:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Phunky_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Phunky_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Piglet_0011 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Piglet_0011:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Pine5_14 Start: 11242, Stop: 12954, Start Num: 53
Candidate Starts for Pine5_14:
(9, 11029), (23, 11119), (Start: 53 @11242 has 282 MA's), (60, 11263), (110, 11623), (141, 11710),
(152, 11782), (155, 11797), (212, 12106), (226, 12205), (242, 12331), (251, 12379), (252, 12388),
(268, 12475), (275, 12532), (283, 12571), (291, 12616), (297, 12661), (315, 12796), (316, 12799),

(326, 12865),

Gene: PinheadLarry_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for PinheadLarry_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Pinkman_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Pinkman_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429),
(252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759),
(306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999),
(333, 11011),

Gene: Pipefish_14 Start: 11892, Stop: 13925, Start Num: 46
Candidate Starts for Pipefish_14:
(Start: 46 @11892 has 6 MA's), (Start: 49 @11904 has 44 MA's), (57, 11919), (70, 11997), (74, 12045),
(141, 12408), (145, 12432), (183, 12597), (192, 12645), (201, 12717), (214, 12798), (221, 12852),
(252, 13071), (253, 13074), (261, 13128), (271, 13176), (281, 13239), (284, 13260), (285, 13263),
(311, 13455), (312, 13464), (316, 13482), (319, 13500), (320, 13503), (325, 13545), (330, 13578),
(345, 13668), (346, 13701), (349, 13818),

Gene: Pipsqueak_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Pipsqueak_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Placalicious_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Placalicious_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Plata_12 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Plata_12:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279),
(242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894),
(297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137),
(331, 11143), (333, 11155),

Gene: Plmatters_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Plmatters_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Podrick_12 Start: 9757, Stop: 11505, Start Num: 53

Candidate Starts for Podrick_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Pops_12 Start: 9757, Stop: 11499, Start Num: 53
Candidate Starts for Pops_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Poster_11 Start: 10371, Stop: 12158, Start Num: 34
Candidate Starts for Poster_11:
(Start: 34 @10371 has 47 MA's), (58, 10437), (81, 10587), (83, 10620), (86, 10650), (117, 10809), (141, 10905), (148, 10944), (158, 11001), (165, 11028), (172, 11058), (176, 11079), (190, 11139), (201, 11226), (224, 11373), (242, 11520), (253, 11580), (255, 11604), (260, 11625), (263, 11643), (268, 11664), (281, 11745), (290, 11793), (297, 11850), (307, 11928), (311, 11961), (316, 11988), (321, 12012), (322, 12030), (326, 12054), (328, 12078), (330, 12084), (331, 12090), (333, 12102),

Gene: Potter_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Potter_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Prickles_12 Start: 9763, Stop: 11508, Start Num: 53
Candidate Starts for Prickles_12:
(Start: 53 @9763 has 282 MA's), (147, 10297), (172, 10423), (183, 10474), (201, 10582), (242, 10876), (252, 10933), (260, 10978), (261, 10987), (263, 10996), (284, 11119), (296, 11197), (297, 11206), (306, 11281), (311, 11317), (316, 11344), (319, 11362), (322, 11386), (330, 11440), (331, 11446), (333, 11458),

Gene: Prince_12 Start: 11636, Stop: 13414, Start Num: 34
Candidate Starts for Prince_12:
(Start: 34 @11636 has 47 MA's), (58, 11702), (81, 11852), (83, 11885), (86, 11915), (104, 12044), (117, 12077), (141, 12173), (158, 12269), (165, 12296), (171, 12323), (172, 12326), (176, 12347), (201, 12494), (224, 12641), (242, 12788), (253, 12848), (255, 12872), (258, 12890), (263, 12911), (268, 12932), (281, 13013), (290, 13061), (297, 13118), (300, 13160), (305, 13187), (308, 13199), (311, 13229), (316, 13256), (321, 13280), (322, 13298), (326, 13322), (330, 13352), (331, 13358),

Gene: PrinceCharming_15 Start: 12528, Stop: 14558, Start Num: 48
Candidate Starts for PrinceCharming_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12750), (99, 12864), (141, 13029), (152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704), (253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142), (330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: ProfessorX_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for ProfessorX_12:

(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Puhltonio_12 Start: 9757, Stop: 11493, Start Num: 53
Candidate Starts for Puhltonio_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10282), (172, 10408), (183, 10459), (201, 10567), (242, 10861), (252, 10918), (260, 10963), (261, 10972), (263, 10981), (284, 11104), (296, 11182), (297, 11191), (306, 11266), (311, 11302), (316, 11329), (319, 11347), (322, 11371), (330, 11425), (331, 11431), (333, 11443),

Gene: Purplicious_42 Start: 22426, Stop: 24216, Start Num: 34
Candidate Starts for Purplicious_42:
(18, 22366), (30, 22420), (Start: 34 @22426 has 47 MA's), (135, 22963), (141, 22996), (143, 23008), (168, 23128), (170, 23131), (179, 23188), (207, 23341), (209, 23347), (212, 23374), (218, 23416), (258, 23674), (260, 23677), (269, 23719), (270, 23722), (276, 23776), (277, 23782), (294, 23878), (296, 23893), (297, 23902), (326, 24127), (331, 24163), (333, 24175), (336, 24199),

Gene: Quammi_23 Start: 13492, Stop: 15324, Start Num: 52
Candidate Starts for Quammi_23:
(Start: 52 @13492 has 36 MA's), (55, 13501), (71, 13600), (122, 13966), (153, 14134), (157, 14149), (171, 14209), (180, 14257), (181, 14263), (188, 14287), (205, 14404), (206, 14410), (219, 14503), (232, 14584), (247, 14677), (249, 14692), (254, 14740), (259, 14764), (270, 14812), (272, 14836), (280, 14884), (288, 14926), (304, 15061), (305, 15073), (307, 15082), (316, 15142), (327, 15211), (331, 15244),

Gene: QueenBeane_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for QueenBeane_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: QueenPie_12 Start: 11965, Stop: 13758, Start Num: 34
Candidate Starts for QueenPie_12:
(Start: 34 @11965 has 47 MA's), (58, 12031), (81, 12181), (83, 12214), (86, 12244), (117, 12409), (141, 12505), (148, 12544), (158, 12601), (165, 12628), (172, 12658), (176, 12679), (190, 12739), (201, 12826), (224, 12973), (242, 13120), (253, 13180), (255, 13204), (260, 13225), (263, 13243), (268, 13264), (281, 13345), (290, 13393), (303, 13504), (307, 13528), (311, 13561), (316, 13588), (319, 13606), (321, 13612), (322, 13630), (326, 13654), (328, 13678), (330, 13684), (331, 13690), (333, 13702),

Gene: Quesadilla_14 Start: 12044, Stop: 13945, Start Num: 19
Candidate Starts for Quesadilla_14:
(Start: 19 @12044 has 1 MA's), (25, 12071), (Start: 34 @12098 has 47 MA's), (62, 12203), (126, 12614), (141, 12683), (165, 12812), (167, 12821), (176, 12863), (178, 12872), (201, 13019), (206, 13046), (214, 13100), (233, 13247), (242, 13313), (252, 13370), (255, 13397), (261, 13427), (263, 13436), (268, 13457), (281, 13538), (284, 13559), (288, 13577), (303, 13697), (305, 13712), (311, 13754), (312, 13763), (316, 13781), (321, 13805), (322, 13823), (326, 13847), (331, 13883),

Gene: Quisquiliae_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Quisquiliae_12:

(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873), (252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203), (306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443), (333, 11455),

Gene: Qyrzula_14 Start: 12501, Stop: 14528, Start Num: 48
Candidate Starts for Qyrzula_14:
(Start: 48 @12501 has 37 MA's), (74, 12645), (77, 12666), (84, 12720), (90, 12747), (99, 12834), (141, 12999), (152, 13071), (183, 13188), (194, 13248), (197, 13266), (201, 13320), (214, 13401), (252, 13674), (253, 13677), (263, 13743), (302, 14001), (311, 14061), (312, 14070), (316, 14088), (321, 14112), (330, 14184), (338, 14232), (347, 14376), (349, 14415), (353, 14472), (354, 14508), (355, 14514),

Gene: RagingRooster_14 Start: 11027, Stop: 13042, Start Num: 49
Candidate Starts for RagingRooster_14:
(Start: 49 @11027 has 44 MA's), (57, 11042), (70, 11120), (74, 11168), (141, 11525), (145, 11549), (183, 11714), (192, 11762), (201, 11834), (214, 11915), (221, 11969), (252, 12188), (253, 12191), (261, 12245), (271, 12293), (281, 12356), (284, 12377), (285, 12380), (311, 12572), (312, 12581), (316, 12599), (319, 12617), (320, 12620), (325, 12662), (330, 12695), (345, 12785), (346, 12818), (349, 12935),

Gene: Ranunculus_20 Start: 13327, Stop: 15048, Start Num: 50
Candidate Starts for Ranunculus_20:
(33, 13264), (Start: 50 @13327 has 33 MA's), (161, 13921), (166, 13942), (188, 14044), (213, 14218), (215, 14230), (219, 14260), (235, 14359), (236, 14362), (262, 14527), (272, 14584), (278, 14626), (281, 14635), (282, 14644), (286, 14668), (296, 14731), (308, 14818), (312, 14857), (316, 14875),

Gene: RawrgerThat_12 Start: 11467, Stop: 13248, Start Num: 34
Candidate Starts for RawrgerThat_12:
(Start: 34 @11467 has 47 MA's), (58, 11533), (81, 11683), (83, 11716), (86, 11746), (104, 11878), (117, 11911), (141, 12007), (158, 12103), (165, 12130), (171, 12157), (172, 12160), (176, 12181), (201, 12328), (224, 12475), (242, 12622), (253, 12682), (255, 12706), (258, 12724), (263, 12745), (268, 12766), (281, 12847), (290, 12895), (297, 12952), (300, 12994), (305, 13021), (308, 13033), (311, 13063), (316, 13090), (321, 13114), (322, 13132), (326, 13156), (330, 13186), (331, 13192),

Gene: Reccee_14 Start: 11580, Stop: 13427, Start Num: 34
Candidate Starts for Reccee_14:
(Start: 26 @11556 has 2 MA's), (Start: 34 @11580 has 47 MA's), (42, 11613), (58, 11664), (62, 11688), (75, 11793), (81, 11823), (82, 11832), (141, 12162), (147, 12195), (158, 12264), (171, 12318), (176, 12342), (177, 12348), (201, 12501), (229, 12684), (242, 12792), (252, 12849), (253, 12852), (260, 12897), (261, 12906), (263, 12915), (267, 12933), (275, 12993), (284, 13038), (288, 13059), (290, 13068), (293, 13095), (297, 13125), (305, 13194), (311, 13236), (315, 13260), (316, 13263), (322, 13305), (328, 13353),

Gene: RedMaple_11 Start: 9754, Stop: 11496, Start Num: 53
Candidate Starts for RedMaple_11:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10285), (172, 10411), (183, 10462), (201, 10570), (242, 10864), (252, 10921), (260, 10966), (261, 10975), (263, 10984), (284, 11107), (296, 11185), (297, 11194), (306, 11269), (311, 11305), (316, 11332), (319, 11350), (322, 11374), (330, 11428), (331, 11434), (333, 11446),

Gene: RedRaider89_12 Start: 9989, Stop: 11734, Start Num: 53
Candidate Starts for RedRaider89_12:

(Start: 53 @9989 has 282 MA's), (76, 10136), (147, 10523), (172, 10649), (183, 10700), (201, 10808), (242, 11102), (252, 11159), (260, 11204), (261, 11213), (263, 11222), (284, 11345), (296, 11423), (297, 11432), (306, 11507), (311, 11543), (316, 11570), (319, 11588), (322, 11612), (330, 11666), (331, 11672), (333, 11684),

Gene: Ren19_19 Start: 13481, Stop: 15208, Start Num: 50
Candidate Starts for Ren19_19:
(Start: 31 @13418 has 1 MA's), (37, 13433), (Start: 50 @13481 has 33 MA's), (67, 13547), (161, 14087), (215, 14390), (219, 14420), (234, 14516), (235, 14519), (236, 14522), (243, 14582), (272, 14744), (281, 14795), (286, 14828), (296, 14891), (308, 14978), (310, 15002), (316, 15035), (328, 15125),

Gene: Renkei_11 Start: 10372, Stop: 12165, Start Num: 34
Candidate Starts for Renkei_11:
(Start: 34 @10372 has 47 MA's), (58, 10438), (81, 10588), (83, 10621), (86, 10651), (104, 10783), (117, 10816), (141, 10912), (148, 10951), (158, 11008), (165, 11035), (172, 11065), (176, 11086), (190, 11146), (201, 11233), (224, 11380), (242, 11527), (253, 11587), (255, 11611), (260, 11632), (263, 11650), (268, 11671), (281, 11752), (290, 11800), (297, 11857), (307, 11935), (311, 11968), (316, 11995), (321, 12019), (322, 12037), (326, 12061), (328, 12085), (330, 12091), (331, 12097), (333, 12109),

Gene: Reprobate_13 Start: 11644, Stop: 13491, Start Num: 34
Candidate Starts for Reprobate_13:
(Start: 34 @11644 has 47 MA's), (42, 11677), (58, 11728), (75, 11857), (82, 11896), (141, 12226), (147, 12259), (158, 12328), (165, 12355), (167, 12364), (171, 12382), (176, 12406), (177, 12412), (182, 12433), (201, 12565), (205, 12586), (221, 12694), (229, 12748), (238, 12823), (242, 12856), (252, 12913), (253, 12916), (260, 12961), (261, 12970), (263, 12979), (268, 13000), (275, 13057), (284, 13102), (288, 13123), (305, 13258), (306, 13264), (311, 13300), (315, 13324), (316, 13327), (321, 13351), (322, 13369), (333, 13441),

Gene: Rhinoforte_15 Start: 12528, Stop: 14555, Start Num: 48
Candidate Starts for Rhinoforte_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12747), (90, 12774), (99, 12861), (141, 13026), (152, 13098), (183, 13215), (194, 13275), (197, 13293), (201, 13347), (214, 13428), (252, 13701), (253, 13704), (263, 13770), (302, 14028), (311, 14088), (312, 14097), (316, 14115), (321, 14139), (330, 14211), (338, 14259), (347, 14403), (349, 14442), (353, 14499), (354, 14535), (355, 14541),

Gene: Rich_13 Start: 11404, Stop: 13245, Start Num: 34
Candidate Starts for Rich_13:
(Start: 20 @11350 has 1 MA's), (Start: 34 @11404 has 47 MA's), (42, 11437), (58, 11488), (62, 11512), (69, 11554), (75, 11617), (76, 11626), (82, 11656), (141, 11980), (147, 12013), (158, 12082), (171, 12136), (177, 12166), (201, 12319), (205, 12340), (229, 12502), (239, 12595), (242, 12610), (252, 12667), (253, 12670), (260, 12715), (261, 12724), (263, 12733), (268, 12754), (273, 12799), (275, 12811), (284, 12856), (288, 12877), (290, 12886), (297, 12943), (305, 13012), (311, 13054), (312, 13063), (315, 13078), (316, 13081), (321, 13105), (322, 13123), (328, 13171),

Gene: Ricotta_11 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Ricotta_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9997), (172, 10123), (183, 10174), (201, 10282), (242, 10576), (252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897), (297, 10906), (306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140), (331, 11146), (333, 11158),

Gene: Riggan_12 Start: 9761, Stop: 11506, Start Num: 53
Candidate Starts for Riggan_12:
(Start: 53 @9761 has 282 MA's), (76, 9908), (147, 10295), (172, 10421), (183, 10472), (201, 10580),
(242, 10874), (252, 10931), (260, 10976), (261, 10985), (263, 10994), (284, 11117), (296, 11195),
(297, 11204), (306, 11279), (311, 11315), (316, 11342), (319, 11360), (322, 11384), (330, 11438),
(331, 11444), (333, 11456),

Gene: Rimu_12 Start: 9460, Stop: 11202, Start Num: 53
Candidate Starts for Rimu_12:
(Start: 53 @9460 has 282 MA's), (76, 9607), (147, 9991), (172, 10117), (183, 10168), (201, 10276),
(242, 10570), (252, 10627), (260, 10672), (261, 10681), (263, 10690), (284, 10813), (296, 10891),
(297, 10900), (306, 10975), (311, 11011), (316, 11038), (319, 11056), (322, 11080), (330, 11134),
(331, 11140), (333, 11152),

Gene: Rinkes_17 Start: 13400, Stop: 15253, Start Num: 34
Candidate Starts for Rinkes_17:
(Start: 34 @13400 has 47 MA's), (47, 13451), (58, 13484), (75, 13613), (83, 13676), (91, 13727), (115,
13898), (143, 14021), (148, 14051), (165, 14132), (176, 14183), (177, 14189), (178, 14192), (190,
14243), (195, 14270), (196, 14273), (201, 14330), (206, 14357), (226, 14495), (228, 14507), (242,
14621), (252, 14678), (258, 14723), (263, 14744), (268, 14765), (281, 14846), (284, 14867), (290,
14894), (297, 14951), (300, 14993), (303, 15005), (305, 15020), (307, 15029), (308, 15032), (311,
15062), (315, 15086), (316, 15089), (319, 15107), (322, 15131), (331, 15191), (333, 15203),

Gene: Rita130_13 Start: 11400, Stop: 13247, Start Num: 34
Candidate Starts for Rita130_13:
(Start: 26 @11376 has 2 MA's), (Start: 34 @11400 has 47 MA's), (42, 11433), (58, 11484), (62, 11508),
(75, 11613), (81, 11643), (82, 11652), (141, 11982), (147, 12015), (158, 12084), (171, 12138), (176,
12162), (177, 12168), (201, 12321), (229, 12504), (242, 12612), (252, 12669), (253, 12672), (260,
12717), (261, 12726), (263, 12735), (267, 12753), (275, 12813), (284, 12858), (288, 12879), (290,
12888), (293, 12915), (297, 12945), (305, 13014), (311, 13056), (315, 13080), (316, 13083), (322,
13125), (328, 13173),

Gene: Rita1961_14 Start: 11021, Stop: 13036, Start Num: 49
Candidate Starts for Rita1961_14:
(Start: 46 @11009 has 6 MA's), (Start: 49 @11021 has 44 MA's), (57, 11036), (70, 11114), (74, 11162),
(141, 11519), (145, 11543), (183, 11708), (192, 11756), (201, 11828), (214, 11909), (221, 11963),
(252, 12182), (253, 12185), (261, 12239), (271, 12287), (281, 12350), (284, 12371), (285, 12374),
(311, 12566), (312, 12575), (316, 12593), (319, 12611), (320, 12614), (325, 12656), (330, 12689),
(345, 12779), (346, 12812), (349, 12929),

Gene: Riverton_11 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Riverton_11:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Rizwana_19 Start: 13218, Stop: 14954, Start Num: 50
Candidate Starts for Rizwana_19:
(Start: 31 @13155 has 1 MA's), (Start: 50 @13218 has 33 MA's), (103, 13608), (119, 13644), (175,
13878), (197, 13986), (202, 14049), (204, 14058), (208, 14079), (219, 14160), (235, 14259), (236,
14262), (240, 14304), (245, 14328), (249, 14349), (250, 14355), (272, 14484), (282, 14544), (290,

14583), (295, 14625), (308, 14718), (326, 14841), (330, 14871),

Gene: RobinRose_26 Start: 13174, Stop: 14952, Start Num: 50
Candidate Starts for RobinRose_26:
(Start: 50 @13174 has 33 MA's), (55, 13186), (97, 13528), (133, 13645), (153, 13771), (180, 13885), (188, 13915), (219, 14128), (232, 14209), (233, 14218), (245, 14296), (247, 14302), (249, 14317), (272, 14461), (278, 14503), (288, 14554), (305, 14701), (307, 14710), (328, 14860), (331, 14872),

Gene: Robyn_11 Start: 9309, Stop: 11057, Start Num: 53
Candidate Starts for Robyn_11:
(Start: 53 @9309 has 282 MA's), (76, 9456), (147, 9846), (172, 9972), (183, 10023), (201, 10131), (242, 10425), (252, 10482), (260, 10527), (261, 10536), (263, 10545), (284, 10668), (296, 10746), (297, 10755), (306, 10830), (311, 10866), (316, 10893), (319, 10911), (322, 10935), (330, 10989), (331, 10995), (333, 11007),

Gene: Roliet_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Roliet_12:
(Start: 53 @9757 has 282 MA's), (76, 9904), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: RomaT_14 Start: 11807, Stop: 13822, Start Num: 49
Candidate Starts for RomaT_14:
(Start: 49 @11807 has 44 MA's), (57, 11822), (70, 11900), (74, 11948), (141, 12305), (145, 12329), (183, 12494), (192, 12542), (201, 12614), (214, 12695), (221, 12749), (252, 12968), (253, 12971), (261, 13025), (271, 13073), (281, 13136), (284, 13157), (285, 13160), (311, 13352), (312, 13361), (316, 13379), (319, 13397), (320, 13400), (325, 13442), (330, 13475), (345, 13565), (346, 13598), (349, 13715),

Gene: RomansRevenge_16 Start: 11444, Stop: 13249, Start Num: 31
Candidate Starts for RomansRevenge_16:
(Start: 31 @11444 has 1 MA's), (44, 11492), (68, 11582), (94, 11834), (95, 11849), (116, 11942), (146, 12053), (148, 12062), (161, 12131), (173, 12176), (181, 12218), (199, 12323), (209, 12380), (219, 12458), (233, 12548), (235, 12557), (249, 12647), (267, 12749), (286, 12866), (296, 12929), (308, 13013), (316, 13070), (317, 13082), (326, 13136),

Gene: Romm_26 Start: 13174, Stop: 14952, Start Num: 50
Candidate Starts for Romm_26:
(Start: 50 @13174 has 33 MA's), (55, 13186), (97, 13528), (133, 13645), (153, 13771), (180, 13885), (188, 13915), (219, 14128), (232, 14209), (233, 14218), (245, 14296), (247, 14302), (249, 14317), (272, 14461), (278, 14503), (288, 14554), (305, 14701), (307, 14710), (328, 14860), (331, 14872),

Gene: Roscoe_13 Start: 9992, Stop: 11737, Start Num: 53
Candidate Starts for Roscoe_13:
(Start: 53 @9992 has 282 MA's), (147, 10526), (172, 10652), (183, 10703), (201, 10811), (242, 11105), (252, 11162), (260, 11207), (261, 11216), (263, 11225), (284, 11348), (296, 11426), (297, 11435), (306, 11510), (311, 11546), (316, 11573), (319, 11591), (322, 11615), (330, 11669), (331, 11675), (333, 11687),

Gene: Rosebush_15 Start: 12528, Stop: 14555, Start Num: 48
Candidate Starts for Rosebush_15:

(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12747), (90, 12774), (99, 12861), (141, 13026), (152, 13098), (183, 13215), (194, 13275), (197, 13293), (201, 13347), (214, 13428), (252, 13701), (253, 13704), (263, 13770), (302, 14028), (311, 14088), (312, 14097), (316, 14115), (321, 14139), (330, 14211), (338, 14259), (347, 14403), (349, 14442), (353, 14499), (354, 14535), (355, 14541),

Gene: Rowlf_21 Start: 13250, Stop: 15082, Start Num: 52
Candidate Starts for Rowlf_21:
(Start: 52 @13250 has 36 MA's), (55, 13259), (71, 13358), (122, 13724), (153, 13892), (157, 13907), (171, 13967), (180, 14015), (181, 14021), (188, 14045), (205, 14162), (206, 14168), (219, 14261), (232, 14342), (247, 14435), (249, 14450), (254, 14498), (259, 14522), (270, 14570), (272, 14594), (280, 14642), (288, 14684), (304, 14819), (305, 14831), (307, 14840), (316, 14900), (327, 14969), (331, 15002),

Gene: Roy17_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Roy17_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: RubyRalph_27 Start: 13767, Stop: 15596, Start Num: 50
Candidate Starts for RubyRalph_27:
(Start: 50 @13767 has 33 MA's), (55, 13779), (73, 13908), (99, 14136), (100, 14154), (140, 14313), (153, 14397), (171, 14475), (180, 14523), (188, 14553), (204, 14667), (219, 14769), (227, 14811), (232, 14850), (233, 14859), (247, 14943), (249, 14958), (270, 15078), (272, 15102), (278, 15144), (280, 15150), (288, 15192), (304, 15327), (307, 15348), (309, 15372), (312, 15390), (316, 15408), (331, 15510),

Gene: Rudy_23 Start: 13492, Stop: 15324, Start Num: 52
Candidate Starts for Rudy_23:
(Start: 52 @13492 has 36 MA's), (55, 13501), (71, 13600), (122, 13966), (153, 14134), (157, 14149), (171, 14209), (180, 14257), (181, 14263), (188, 14287), (205, 14404), (206, 14410), (219, 14503), (232, 14584), (247, 14677), (249, 14692), (254, 14740), (259, 14764), (270, 14812), (272, 14836), (280, 14884), (288, 14926), (304, 15061), (305, 15073), (307, 15082), (316, 15142), (327, 15211), (331, 15244),

Gene: SDcharge11_12 Start: 9750, Stop: 11495, Start Num: 53
Candidate Starts for SDcharge11_12:
(Start: 53 @9750 has 282 MA's), (76, 9897), (147, 10284), (172, 10410), (183, 10461), (201, 10569), (242, 10863), (252, 10920), (260, 10965), (261, 10974), (263, 10983), (284, 11106), (296, 11184), (297, 11193), (306, 11268), (311, 11304), (316, 11331), (319, 11349), (322, 11373), (330, 11427), (331, 11433), (333, 11445),

Gene: Sabella_15 Start: 12411, Stop: 14441, Start Num: 48
Candidate Starts for Sabella_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12633), (99, 12747), (141, 12912), (152, 12984), (183, 13101), (194, 13161), (197, 13179), (201, 13233), (214, 13314), (252, 13587), (253, 13590), (263, 13656), (302, 13914), (311, 13974), (312, 13983), (316, 14001), (321, 14025), (330, 14097), (338, 14145), (347, 14289), (349, 14328), (353, 14385), (354, 14421), (355, 14427),

Gene: SadLad_29 Start: 14704, Stop: 16533, Start Num: 50
Candidate Starts for SadLad_29:

(Start: 50 @14704 has 33 MA's), (55, 14716), (73, 14845), (99, 15073), (100, 15091), (140, 15250), (153, 15334), (171, 15412), (180, 15460), (188, 15490), (204, 15604), (219, 15706), (227, 15748), (232, 15787), (247, 15880), (249, 15895), (270, 16015), (272, 16039), (278, 16081), (280, 16087), (288, 16129), (304, 16264), (307, 16285), (309, 16309), (312, 16327), (316, 16345), (331, 16447),

Gene: Saguaro_14 Start: 12330, Stop: 14147, Start Num: 34
Candidate Starts for Saguaro_14:
(Start: 34 @12330 has 47 MA's), (39, 12342), (47, 12375), (58, 12402), (62, 12426), (70, 12474), (76, 12540), (128, 12831), (141, 12885), (147, 12918), (158, 12987), (165, 13014), (172, 13044), (174, 13053), (201, 13221), (205, 13242), (228, 13398), (236, 13458), (242, 13512), (251, 13560), (252, 13569), (255, 13596), (258, 13614), (261, 13626), (263, 13635), (268, 13656), (275, 13713), (281, 13737), (288, 13776), (290, 13785), (303, 13896), (306, 13917), (311, 13953), (316, 13980), (321, 14004), (322, 14022), (326, 14046), (330, 14076), (333, 14094),

Gene: SallyH_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for SallyH_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: SallyK_26 Start: 14644, Stop: 16470, Start Num: 52
Candidate Starts for SallyK_26:
(Start: 52 @14644 has 36 MA's), (55, 14653), (71, 14752), (112, 15079), (153, 15280), (157, 15295), (171, 15355), (180, 15403), (188, 15433), (205, 15550), (206, 15556), (219, 15649), (232, 15730), (247, 15823), (249, 15838), (254, 15886), (259, 15910), (270, 15958), (272, 15982), (280, 16030), (288, 16072), (304, 16207), (307, 16228), (313, 16273), (316, 16288), (327, 16357), (331, 16390),

Gene: Samaymay_12 Start: 9754, Stop: 11502, Start Num: 53
Candidate Starts for Samaymay_12:
(Start: 53 @9754 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (272, 11041), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: SassyCat97_11 Start: 9461, Stop: 11209, Start Num: 53
Candidate Starts for SassyCat97_11:
(Start: 53 @9461 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Schadenfreude_11 Start: 9305, Stop: 11047, Start Num: 53
Candidate Starts for Schadenfreude_11:
(Start: 53 @9305 has 282 MA's), (76, 9452), (147, 9836), (172, 9962), (183, 10013), (201, 10121), (242, 10415), (252, 10472), (260, 10517), (261, 10526), (263, 10535), (284, 10658), (296, 10736), (297, 10745), (306, 10820), (311, 10856), (316, 10883), (319, 10901), (322, 10925), (330, 10979), (331, 10985), (333, 10997),

Gene: Schueller_11 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Schueller_11:
(Start: 53 @9461 has 282 MA's), (147, 9995), (172, 10121), (183, 10172), (201, 10280), (206, 10307), (242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895),

(297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138),
(331, 11144), (333, 11156),

Gene: Scoot17C_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Scoot17C_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577),
(242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192),
(297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435),
(331, 11441), (333, 11453),

Gene: Scrick_11 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Scrick_11:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: Sejanus_10 Start: 9723, Stop: 11489, Start Num: 50
Candidate Starts for Sejanus_10:
(Start: 22 @9606 has 1 MA's), (Start: 50 @9723 has 33 MA's), (99, 10080), (118, 10155), (130, 10191),
(139, 10230), (141, 10245), (146, 10281), (151, 10323), (152, 10329), (177, 10437), (185, 10467),
(230, 10776), (245, 10878), (251, 10914), (252, 10923), (266, 11007), (277, 11067), (281, 11082),
(315, 11322), (318, 11340), (319, 11343), (332, 11433),

Gene: Selr12_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Selr12_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Serendipitous_13 Start: 11421, Stop: 13295, Start Num: 26
Candidate Starts for Serendipitous_13:
(Start: 20 @11391 has 1 MA's), (Start: 26 @11421 has 2 MA's), (Start: 34 @11445 has 47 MA's), (42,
11478), (58, 11529), (60, 11541), (62, 11553), (75, 11658), (141, 12030), (147, 12063), (158, 12132),
(172, 12189), (177, 12216), (198, 12351), (201, 12369), (229, 12552), (242, 12660), (252, 12717),
(253, 12720), (260, 12765), (261, 12774), (263, 12783), (268, 12804), (275, 12861), (284, 12906),
(305, 13062), (311, 13104), (312, 13113), (315, 13128), (316, 13131), (321, 13155), (322, 13173),
(328, 13221),

Gene: Serendipity_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Serendipity_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Serpentine_0012 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Serpentine_0012:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: ShadowBud_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for ShadowBud_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Shatter_11 Start: 9837, Stop: 11540, Start Num: 51
Candidate Starts for Shatter_11:
(Start: 51 @9837 has 21 MA's), (74, 9972), (109, 10188), (121, 10209), (141, 10284), (150, 10347),
(176, 10446), (190, 10506), (203, 10605), (242, 10884), (252, 10941), (263, 11007), (281, 11109),
(284, 11130), (288, 11148), (302, 11265), (311, 11325), (316, 11352), (321, 11376), (324, 11412),
(330, 11448), (331, 11454), (344, 11529),

Gene: Sheila_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Sheila_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574),
(242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189),
(297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432),
(331, 11438), (333, 11450),

Gene: Shenandoah_14 Start: 11005, Stop: 13020, Start Num: 49
Candidate Starts for Shenandoah_14:
(Start: 46 @10993 has 6 MA's), (Start: 49 @11005 has 44 MA's), (57, 11020), (70, 11098), (74, 11146),
(141, 11503), (145, 11527), (183, 11692), (192, 11740), (201, 11812), (214, 11893), (221, 11947),
(252, 12166), (253, 12169), (261, 12223), (271, 12271), (281, 12334), (284, 12355), (285, 12358),
(311, 12550), (312, 12559), (316, 12577), (319, 12595), (320, 12598), (325, 12640), (330, 12673),
(345, 12763), (346, 12796), (349, 12913),

Gene: Shenyu_13 Start: 11390, Stop: 13231, Start Num: 34
Candidate Starts for Shenyu_13:
(Start: 26 @11366 has 2 MA's), (Start: 34 @11390 has 47 MA's), (42, 11423), (58, 11474), (62, 11498),
(75, 11603), (90, 11708), (141, 11966), (147, 11999), (158, 12068), (172, 12125), (177, 12152), (201,
12305), (223, 12449), (229, 12488), (242, 12596), (252, 12653), (253, 12656), (260, 12701), (261,
12710), (263, 12719), (275, 12797), (284, 12842), (288, 12863), (297, 12929), (305, 12998), (311,
13040), (315, 13064), (316, 13067), (321, 13091), (322, 13109), (328, 13157),

Gene: ShiVal_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for ShiVal_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Sigman_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Sigman_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: SilentRX_21 Start: 13505, Stop: 15193, Start Num: 50

Candidate Starts for SilentRX_21:
(33, 13445), (36, 13457), (38, 13460), (Start: 50 @13505 has 33 MA's), (215, 14372), (219, 14402),
(220, 14414), (234, 14498), (235, 14501), (236, 14504), (246, 14573), (256, 14645), (267, 14693),
(286, 14810), (296, 14876), (311, 14993), (324, 15080), (326, 15086),

Gene: Sillytadpoles_24 Start: 13490, Stop: 15322, Start Num: 52
Candidate Starts for Sillytadpoles_24:
(Start: 52 @13490 has 36 MA's), (55, 13499), (71, 13598), (122, 13964), (153, 14132), (157, 14147),
(171, 14207), (180, 14255), (181, 14261), (188, 14285), (205, 14402), (206, 14408), (219, 14501),
(232, 14582), (247, 14675), (249, 14690), (254, 14738), (259, 14762), (270, 14810), (272, 14834),
(280, 14882), (288, 14924), (304, 15059), (305, 15071), (307, 15080), (316, 15140), (327, 15209),
(331, 15242),

Gene: SilverBell_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for SilverBell_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Simielle_11 Start: 9464, Stop: 11200, Start Num: 53
Candidate Starts for Simielle_11:
(Start: 53 @9464 has 282 MA's), (147, 9989), (172, 10115), (183, 10166), (201, 10274), (242, 10568),
(252, 10625), (260, 10670), (261, 10679), (263, 10688), (284, 10811), (296, 10889), (297, 10898),
(306, 10973), (311, 11009), (316, 11036), (319, 11054), (322, 11078), (330, 11132), (331, 11138),
(333, 11150),

Gene: SirBeauregard_11 Start: 9418, Stop: 11163, Start Num: 53
Candidate Starts for SirBeauregard_11:
(Start: 53 @9418 has 282 MA's), (147, 9952), (172, 10078), (183, 10129), (201, 10237), (242, 10531),
(252, 10588), (260, 10633), (261, 10642), (263, 10651), (284, 10774), (296, 10852), (297, 10861),
(306, 10936), (311, 10972), (316, 10999), (319, 11017), (322, 11041), (330, 11095), (331, 11101),
(333, 11113),

Gene: SirJeffery_13 Start: 11377, Stop: 13248, Start Num: 26
Candidate Starts for SirJeffery_13:
(Start: 26 @11377 has 2 MA's), (Start: 34 @11401 has 47 MA's), (42, 11434), (58, 11485), (62, 11509),
(75, 11614), (81, 11644), (82, 11653), (141, 11983), (147, 12016), (158, 12085), (171, 12139), (176,
12163), (177, 12169), (201, 12322), (229, 12505), (242, 12613), (252, 12670), (253, 12673), (260,
12718), (261, 12727), (263, 12736), (267, 12754), (275, 12814), (284, 12859), (288, 12880), (290,
12889), (293, 12916), (297, 12946), (305, 13015), (311, 13057), (315, 13081), (316, 13084), (322,
13126), (328, 13174),

Gene: Sisko_11 Start: 10177, Stop: 11874, Start Num: 51
Candidate Starts for Sisko_11:
(Start: 51 @10177 has 21 MA's), (127, 10558), (141, 10618), (152, 10690), (176, 10780), (196, 10870),
(205, 10948), (242, 11218), (252, 11275), (261, 11332), (263, 11341), (281, 11443), (284, 11464),
(288, 11482), (311, 11659), (314, 11677), (315, 11683), (316, 11686), (321, 11710), (325, 11749),
(330, 11782), (331, 11788),

Gene: Skippy_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Skippy_12:

(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Slatt_12 Start: 9759, Stop: 11507, Start Num: 53
Candidate Starts for Slatt_12:
(Start: 53 @9759 has 282 MA's), (147, 10296), (172, 10422), (183, 10473), (201, 10581), (242, 10875),
(252, 10932), (260, 10977), (261, 10986), (263, 10995), (284, 11118), (296, 11196), (297, 11205),
(306, 11280), (311, 11316), (316, 11343), (319, 11361), (322, 11385), (330, 11439), (331, 11445),
(333, 11457),

Gene: SlippinJimmy_14 Start: 11788, Stop: 13806, Start Num: 49
Candidate Starts for SlippinJimmy_14:
(Start: 49 @11788 has 44 MA's), (57, 11803), (70, 11881), (74, 11929), (141, 12289), (145, 12313),
(183, 12478), (192, 12526), (201, 12598), (214, 12679), (221, 12733), (252, 12952), (253, 12955),
(261, 13009), (271, 13057), (281, 13120), (284, 13141), (285, 13144), (311, 13336), (312, 13345),
(316, 13363), (319, 13381), (320, 13384), (325, 13426), (330, 13459), (345, 13549), (346, 13582),
(349, 13699),

Gene: SlySloth_27 Start: 14547, Stop: 16379, Start Num: 52
Candidate Starts for SlySloth_27:
(Start: 52 @14547 has 36 MA's), (55, 14556), (71, 14655), (122, 15021), (153, 15189), (157, 15204),
(171, 15264), (180, 15312), (181, 15318), (188, 15342), (205, 15459), (206, 15465), (219, 15558),
(232, 15639), (247, 15732), (249, 15747), (254, 15795), (259, 15819), (270, 15867), (272, 15891),
(280, 15939), (288, 15981), (304, 16116), (307, 16137), (316, 16197), (327, 16266), (331, 16299),

Gene: Soile_12 Start: 9463, Stop: 11208, Start Num: 53
Candidate Starts for Soile_12:
(Start: 53 @9463 has 282 MA's), (147, 9997), (172, 10123), (183, 10174), (201, 10282), (242, 10576),
(252, 10633), (260, 10678), (261, 10687), (263, 10696), (284, 10819), (296, 10897), (297, 10906),
(306, 10981), (311, 11017), (316, 11044), (319, 11062), (322, 11086), (330, 11140), (331, 11146),
(333, 11158),

Gene: Solosis_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Solosis_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Soos_40 Start: 22417, Stop: 24207, Start Num: 34
Candidate Starts for Soos_40:
(18, 22357), (30, 22411), (Start: 34 @22417 has 47 MA's), (141, 22987), (143, 22999), (168, 23119),
(170, 23122), (179, 23179), (207, 23332), (209, 23338), (212, 23365), (218, 23407), (229, 23461),
(233, 23500), (241, 23560), (258, 23665), (260, 23668), (269, 23710), (270, 23713), (276, 23767),
(277, 23773), (294, 23869), (296, 23884), (297, 23893), (326, 24118), (331, 24154), (333, 24166),
(336, 24190),

Gene: Sophia_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Sophia_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577),
(252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907),

(306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Soto_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Soto_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Sour_14 Start: 11491, Stop: 13185, Start Num: 51
Candidate Starts for Sour_14:
(Start: 51 @11491 has 21 MA's), (74, 11626), (106, 11827), (141, 11929), (176, 12091), (201, 12238), (203, 12250), (233, 12463), (242, 12529), (252, 12586), (253, 12589), (255, 12613), (263, 12652), (270, 12679), (275, 12730), (281, 12754), (284, 12775), (288, 12793), (302, 12910), (305, 12928), (306, 12934), (308, 12940), (311, 12970), (312, 12979), (314, 12988), (316, 12997), (321, 13021), (330, 13093), (331, 13099), (344, 13174),

Gene: Spartan300_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Spartan300_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Squash_27 Start: 14560, Stop: 16392, Start Num: 52
Candidate Starts for Squash_27:
(Start: 52 @14560 has 36 MA's), (55, 14569), (71, 14668), (122, 15034), (153, 15202), (157, 15217), (171, 15277), (180, 15325), (181, 15331), (188, 15355), (205, 15472), (206, 15478), (219, 15571), (232, 15652), (247, 15745), (249, 15760), (254, 15808), (259, 15832), (270, 15880), (272, 15904), (280, 15952), (288, 15994), (304, 16129), (305, 16141), (307, 16150), (316, 16210), (327, 16279), (331, 16312),

Gene: Squid_12 Start: 9461, Stop: 11209, Start Num: 53
Candidate Starts for Squid_12:
(Start: 53 @9461 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Squiggle_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Squiggle_12:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: StAugustine_17 Start: 13254, Stop: 15374, Start Num: 51
Candidate Starts for StAugustine_17:
(Start: 51 @13254 has 21 MA's), (Start: 56 @13269 has 1 MA's), (126, 13719), (141, 13782), (148, 13818), (171, 13920), (201, 14112), (214, 14193), (231, 14307), (242, 14388), (252, 14445), (263, 14508), (268, 14529), (291, 14673), (305, 14787), (311, 14829), (316, 14856), (322, 14898), (330, 14952), (350, 15204),

Gene: Statler_26 Start: 14472, Stop: 16304, Start Num: 52
Candidate Starts for Statler_26:
(Start: 52 @14472 has 36 MA's), (55, 14481), (71, 14580), (122, 14946), (153, 15114), (157, 15129),
(171, 15189), (180, 15237), (181, 15243), (188, 15267), (205, 15384), (206, 15390), (219, 15483),
(232, 15564), (247, 15657), (249, 15672), (254, 15720), (259, 15744), (270, 15792), (272, 15816),
(280, 15864), (288, 15906), (304, 16041), (305, 16053), (307, 16062), (316, 16122), (327, 16191),
(331, 16224),

Gene: Stillion_44 Start: 23002, Stop: 24792, Start Num: 34
Candidate Starts for Stillion_44:
(18, 22942), (30, 22996), (Start: 34 @23002 has 47 MA's), (135, 23539), (141, 23572), (143, 23584),
(168, 23704), (170, 23707), (179, 23764), (207, 23917), (209, 23923), (218, 23992), (240, 24139),
(258, 24250), (260, 24253), (269, 24295), (270, 24298), (275, 24349), (276, 24352), (277, 24358),
(294, 24454), (296, 24469), (297, 24478), (326, 24703), (331, 24739), (333, 24751), (336, 24775),

Gene: Sting_43 Start: 22856, Stop: 24646, Start Num: 34
Candidate Starts for Sting_43:
(18, 22796), (30, 22850), (Start: 34 @22856 has 47 MA's), (135, 23393), (141, 23426), (143, 23438),
(168, 23558), (170, 23561), (179, 23618), (207, 23771), (209, 23777), (212, 23804), (218, 23846),
(258, 24104), (260, 24107), (269, 24149), (270, 24152), (276, 24206), (277, 24212), (294, 24308),
(296, 24323), (297, 24332), (326, 24557), (331, 24593), (333, 24605), (336, 24629),

Gene: Stinger_10 Start: 9910, Stop: 11709, Start Num: 34
Candidate Starts for Stinger_10:
(Start: 34 @9910 has 47 MA's), (41, 9940), (58, 9976), (81, 10126), (86, 10189), (129, 10399), (141,
10456), (148, 10495), (158, 10552), (171, 10606), (172, 10609), (176, 10630), (178, 10639), (190,
10690), (201, 10777), (233, 11005), (236, 11017), (242, 11071), (253, 11131), (255, 11155), (260,
11176), (261, 11185), (263, 11194), (268, 11215), (281, 11296), (290, 11344), (297, 11401), (303,
11455), (307, 11479), (311, 11512), (316, 11539), (319, 11557), (321, 11563), (322, 11581), (330,
11635), (331, 11641), (333, 11653),

Gene: StinkyVeggy_14 Start: 11554, Stop: 13395, Start Num: 34
Candidate Starts for StinkyVeggy_14:
(Start: 26 @11530 has 2 MA's), (Start: 34 @11554 has 47 MA's), (42, 11587), (62, 11662), (75, 11767),
(88, 11869), (141, 12130), (147, 12163), (158, 12232), (172, 12289), (177, 12316), (201, 12469), (204,
12487), (223, 12613), (229, 12652), (242, 12760), (252, 12817), (253, 12820), (260, 12865), (261,
12874), (263, 12883), (275, 12961), (284, 13006), (288, 13027), (297, 13093), (299, 13123), (305,
13162), (311, 13204), (312, 13213), (315, 13228), (316, 13231), (321, 13255), (322, 13273), (328,
13321),

Gene: StrawberryJamm_27 Start: 13792, Stop: 15624, Start Num: 52
Candidate Starts for StrawberryJamm_27:
(Start: 52 @13792 has 36 MA's), (55, 13801), (71, 13900), (112, 14233), (153, 14434), (157, 14449),
(171, 14509), (180, 14557), (188, 14587), (205, 14704), (206, 14710), (219, 14803), (232, 14884),
(247, 14977), (249, 14992), (254, 15040), (259, 15064), (270, 15112), (272, 15136), (280, 15184),
(288, 15226), (304, 15361), (307, 15382), (313, 15427), (316, 15442), (327, 15511), (331, 15544),

Gene: Struggle_11 Start: 9310, Stop: 11055, Start Num: 53
Candidate Starts for Struggle_11:
(Start: 53 @9310 has 282 MA's), (147, 9844), (172, 9970), (183, 10021), (201, 10129), (242, 10423),
(252, 10480), (260, 10525), (261, 10534), (263, 10543), (284, 10666), (296, 10744), (297, 10753),
(306, 10828), (311, 10864), (316, 10891), (319, 10909), (322, 10933), (330, 10987), (331, 10993),

(333, 11005),

Gene: Suffolk_12 Start: 9756, Stop: 11501, Start Num: 53
Candidate Starts for Suffolk_12:
(Start: 53 @9756 has 282 MA's), (76, 9903), (147, 10290), (172, 10416), (183, 10467), (201, 10575),
(242, 10869), (252, 10926), (260, 10971), (261, 10980), (263, 10989), (284, 11112), (296, 11190),
(297, 11199), (306, 11274), (311, 11310), (316, 11337), (319, 11355), (322, 11379), (330, 11433),
(331, 11439), (333, 11451),

Gene: Suigeneris_13 Start: 11401, Stop: 13248, Start Num: 34
Candidate Starts for Suigeneris_13:
(Start: 26 @11377 has 2 MA's), (Start: 34 @11401 has 47 MA's), (42, 11434), (58, 11485), (62, 11509),
(75, 11614), (81, 11644), (82, 11653), (141, 11983), (147, 12016), (158, 12085), (171, 12139), (176,
12163), (201, 12322), (205, 12343), (229, 12505), (242, 12613), (252, 12670), (253, 12673), (260,
12718), (261, 12727), (263, 12736), (267, 12754), (275, 12814), (284, 12859), (288, 12880), (290,
12889), (293, 12916), (297, 12946), (305, 13015), (311, 13057), (315, 13081), (316, 13084), (322,
13126), (328, 13174),

Gene: Sunfish_32 Start: 15117, Stop: 16874, Start Num: 56
Candidate Starts for Sunfish_32:
(Start: 56 @15117 has 1 MA's), (102, 15489), (115, 15534), (148, 15681), (176, 15807), (275, 16431),
(278, 16446), (279, 16449), (281, 16455), (316, 16695), (326, 16761), (329, 16788),

Gene: Surely_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Surely_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: SwainyDoc_14 Start: 11024, Stop: 13039, Start Num: 49
Candidate Starts for SwainyDoc_14:
(Start: 49 @11024 has 44 MA's), (57, 11039), (70, 11117), (74, 11165), (141, 11522), (145, 11546),
(183, 11711), (192, 11759), (201, 11831), (214, 11912), (221, 11966), (252, 12185), (253, 12188),
(261, 12242), (271, 12290), (281, 12353), (284, 12374), (285, 12377), (311, 12569), (312, 12578),
(316, 12596), (319, 12614), (320, 12617), (325, 12659), (330, 12692), (345, 12782), (346, 12815),
(349, 12932),

Gene: Swiphy_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Swiphy_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Swish_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Swish_12:
(Start: 53 @9758 has 282 MA's), (76, 9905), (147, 10292), (172, 10418), (183, 10469), (201, 10577),
(242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192),
(297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435),
(331, 11441), (333, 11453),

Gene: SynergyX_14 Start: 11027, Stop: 13042, Start Num: 49

Candidate Starts for SynergyX_14:
(Start: 49 @11027 has 44 MA's), (57, 11042), (70, 11120), (74, 11168), (141, 11525), (145, 11549), (183, 11714), (192, 11762), (201, 11834), (214, 11915), (221, 11969), (252, 12188), (253, 12191), (261, 12245), (271, 12293), (281, 12356), (284, 12377), (285, 12380), (311, 12572), (312, 12581), (316, 12599), (319, 12617), (320, 12620), (325, 12662), (330, 12695), (345, 12785), (346, 12818), (349, 12935),

Gene: TA17A_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for TA17A_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: TPA2_21 Start: 12968, Stop: 14209, Start Num: 141
Candidate Starts for TPA2_21:
(Start: 52 @12464 has 36 MA's), (78, 12626), (96, 12797), (120, 12878), (132, 12920), (141, 12968), (161, 13061), (177, 13130), (189, 13181), (191, 13202), (201, 13274), (233, 13499), (242, 13565), (252, 13622), (263, 13688), (270, 13715), (281, 13790), (290, 13838), (297, 13895), (306, 13970), (311, 14006), (312, 14015), (315, 14030), (316, 14033), (321, 14057), (326, 14099), (330, 14129),

Gene: TallGrassMM_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for TallGrassMM_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Tank_20 Start: 13083, Stop: 14846, Start Num: 50
Candidate Starts for Tank_20:
(Start: 31 @13017 has 1 MA's), (Start: 50 @13083 has 33 MA's), (119, 13521), (138, 13590), (142, 13614), (154, 13683), (175, 13764), (197, 13872), (200, 13923), (202, 13935), (204, 13944), (233, 14136), (235, 14145), (236, 14148), (245, 14214), (249, 14235), (250, 14241), (252, 14259), (272, 14370), (282, 14430), (290, 14469), (295, 14511), (308, 14604), (312, 14643), (335, 14796),

Gene: Taptic_9 Start: 10537, Stop: 12588, Start Num: 50
Candidate Starts for Taptic_9:
(Start: 50 @10537 has 33 MA's), (57, 10549), (61, 10576), (70, 10630), (74, 10678), (87, 10783), (Start: 98 @10888 has 1 MA's), (118, 10960), (149, 11095), (159, 11134), (166, 11164), (177, 11209), (181, 11230), (198, 11338), (201, 11356), (211, 11425), (212, 11431), (226, 11524), (249, 11683), (252, 11707), (256, 11737), (263, 11773), (270, 11800), (281, 11875), (288, 11914), (297, 11980), (306, 12055), (315, 12115), (330, 12214), (331, 12220), (342, 12283), (348, 12439), (351, 12490), (352, 12496), (356, 12580),

Gene: Teehee_26 Start: 14727, Stop: 16559, Start Num: 52
Candidate Starts for Teehee_26:
(Start: 52 @14727 has 36 MA's), (55, 14736), (71, 14835), (122, 15201), (153, 15369), (157, 15384), (171, 15444), (180, 15492), (181, 15498), (188, 15522), (205, 15639), (206, 15645), (219, 15738), (232, 15819), (247, 15912), (249, 15927), (254, 15975), (259, 15999), (270, 16047), (272, 16071), (280, 16119), (288, 16161), (304, 16296), (305, 16308), (307, 16317), (316, 16377), (327, 16446), (331, 16479),

Gene: Telesworld_11 Start: 9464, Stop: 11209, Start Num: 53

Candidate Starts for Telesworld_11:
(Start: 53 @9464 has 282 MA's), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Tempo_24 Start: 13050, Stop: 14828, Start Num: 50
Candidate Starts for Tempo_24:
(Start: 50 @13050 has 33 MA's), (55, 13062), (97, 13404), (133, 13521), (153, 13647), (180, 13761), (188, 13791), (219, 14004), (232, 14085), (233, 14094), (245, 14172), (247, 14178), (249, 14193), (272, 14337), (278, 14379), (288, 14430), (305, 14577), (307, 14586), (328, 14736), (331, 14748),

Gene: Thonko_13 Start: 9413, Stop: 11170, Start Num: 52
Candidate Starts for Thonko_13:
(Start: 52 @9413 has 36 MA's), (58, 9428), (83, 9611), (111, 9803), (126, 9842), (141, 9908), (147, 9941), (152, 9986), (157, 10007), (172, 10067), (201, 10244), (210, 10301), (224, 10391), (226, 10412), (242, 10538), (252, 10595), (258, 10640), (261, 10652), (263, 10661), (268, 10682), (281, 10763), (284, 10784), (296, 10859), (297, 10868), (302, 10919), (305, 10937), (306, 10943), (311, 10979), (316, 11006), (319, 11024), (321, 11030), (322, 11048), (334, 11132),

Gene: Thora_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Thora_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: ThreeOh3D2_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for ThreeOh3D2_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: Thunderbird_11 Start: 9463, Stop: 11205, Start Num: 53
Candidate Starts for Thunderbird_11:
(Start: 53 @9463 has 282 MA's), (76, 9610), (147, 9994), (172, 10120), (183, 10171), (201, 10279), (242, 10573), (252, 10630), (260, 10675), (261, 10684), (263, 10693), (284, 10816), (296, 10894), (297, 10903), (306, 10978), (311, 11014), (316, 11041), (319, 11059), (322, 11083), (330, 11137), (331, 11143), (333, 11155),

Gene: Timmi_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Timmi_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Tinciduntsolum_16 Start: 12527, Stop: 14557, Start Num: 48
Candidate Starts for Tinciduntsolum_16:
(Start: 48 @12527 has 37 MA's), (74, 12671), (77, 12692), (84, 12749), (99, 12863), (141, 13028), (152, 13100), (183, 13217), (194, 13277), (197, 13295), (201, 13349), (214, 13430), (252, 13703), (253, 13706), (263, 13772), (302, 14030), (311, 14090), (312, 14099), (316, 14117), (321, 14141),

(330, 14213), (338, 14261), (347, 14405), (349, 14444), (353, 14501), (354, 14537), (355, 14543),

Gene: TinyTerror_14 Start: 11029, Stop: 13041, Start Num: 49
Candidate Starts for TinyTerror_14:
(Start: 49 @11029 has 44 MA's), (57, 11044), (70, 11122), (74, 11170), (141, 11524), (145, 11548),
(183, 11713), (192, 11761), (201, 11833), (214, 11914), (221, 11968), (252, 12187), (253, 12190),
(261, 12244), (271, 12292), (281, 12355), (284, 12376), (285, 12379), (311, 12571), (312, 12580),
(316, 12598), (319, 12616), (320, 12619), (325, 12661), (330, 12694), (349, 12934),

Gene: Tissue_25 Start: 14292, Stop: 16115, Start Num: 52
Candidate Starts for Tissue_25:
(Start: 52 @14292 has 36 MA's), (55, 14301), (71, 14400), (112, 14724), (153, 14925), (157, 14940),
(171, 15000), (180, 15048), (188, 15078), (205, 15195), (206, 15201), (219, 15294), (232, 15375),
(247, 15468), (249, 15483), (254, 15531), (259, 15555), (270, 15603), (272, 15627), (280, 15675),
(288, 15717), (304, 15852), (307, 15873), (316, 15933), (327, 16002), (331, 16035),

Gene: TomBombadil_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for TomBombadil_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Tomlarah_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Tomlarah_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Toni_11 Start: 9465, Stop: 11213, Start Num: 53
Candidate Starts for Toni_11:
(Start: 53 @9465 has 282 MA's), (147, 10002), (172, 10128), (183, 10179), (201, 10287), (242, 10581),
(252, 10638), (260, 10683), (261, 10692), (263, 10701), (284, 10824), (296, 10902), (297, 10911),
(306, 10986), (311, 11022), (316, 11049), (319, 11067), (322, 11091), (330, 11145), (331, 11151),
(333, 11163),

Gene: Tonitrus_30 Start: 19280, Stop: 21067, Start Num: 35
Candidate Starts for Tonitrus_30:
(Start: 35 @19280 has 1 MA's), (60, 19370), (63, 19391), (79, 19514), (87, 19589), (89, 19601), (156,
19958), (184, 20066), (201, 20168), (205, 20189), (210, 20225), (221, 20297), (229, 20333), (231,
20357), (245, 20450), (248, 20462), (252, 20495), (265, 20570), (276, 20639), (288, 20699), (291,
20720), (293, 20735), (297, 20765), (314, 20897), (318, 20921), (331, 21008),

Gene: TooFast2Furius_13 Start: 9992, Stop: 11737, Start Num: 53
Candidate Starts for TooFast2Furius_13:
(Start: 53 @9992 has 282 MA's), (76, 10139), (147, 10526), (172, 10652), (183, 10703), (201, 10811),
(242, 11105), (252, 11162), (260, 11207), (261, 11216), (263, 11225), (284, 11348), (296, 11426),
(297, 11435), (306, 11510), (311, 11546), (316, 11573), (319, 11591), (322, 11615), (330, 11669),
(331, 11675), (333, 11687),

Gene: Tooj_12 Start: 9755, Stop: 11503, Start Num: 53
Candidate Starts for Tooj_12:

(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871), (252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201), (306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441), (333, 11453),

Gene: TraderJ_13 Start: 11329, Stop: 13011, Start Num: 51
Candidate Starts for TraderJ_13:
(Start: 51 @11329 has 21 MA's), (70, 11416), (74, 11464), (101, 11653), (141, 11764), (145, 11788), (152, 11836), (176, 11926), (203, 12085), (205, 12094), (212, 12142), (224, 12220), (228, 12253), (233, 12301), (242, 12367), (251, 12415), (252, 12424), (253, 12427), (264, 12499), (270, 12517), (275, 12568), (284, 12613), (287, 12625), (290, 12640), (305, 12766), (311, 12808), (315, 12832), (316, 12835), (319, 12853),

Gene: Tres_15 Start: 12411, Stop: 14438, Start Num: 48
Candidate Starts for Tres_15:
(Start: 48 @12411 has 37 MA's), (74, 12555), (77, 12576), (84, 12630), (90, 12657), (99, 12744), (141, 12909), (152, 12981), (183, 13098), (194, 13158), (197, 13176), (201, 13230), (214, 13311), (252, 13584), (253, 13587), (263, 13653), (302, 13911), (311, 13971), (312, 13980), (316, 13998), (321, 14022), (330, 14094), (338, 14142), (347, 14286), (349, 14325), (353, 14382), (354, 14418), (355, 14424),

Gene: Triad_12 Start: 9307, Stop: 11052, Start Num: 53
Candidate Starts for Triad_12:
(Start: 53 @9307 has 282 MA's), (76, 9454), (147, 9841), (172, 9967), (183, 10018), (201, 10126), (242, 10420), (252, 10477), (260, 10522), (261, 10531), (263, 10540), (284, 10663), (296, 10741), (297, 10750), (306, 10825), (311, 10861), (316, 10888), (319, 10906), (322, 10930), (330, 10984), (331, 10990), (333, 11002),

Gene: True_11 Start: 9462, Stop: 11210, Start Num: 53
Candidate Starts for True_11:
(Start: 53 @9462 has 282 MA's), (147, 9999), (172, 10125), (183, 10176), (201, 10284), (242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899), (297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142), (331, 11148), (333, 11160),

Gene: Trypo_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Trypo_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Tydolla_14 Start: 11764, Stop: 13779, Start Num: 49
Candidate Starts for Tydolla_14:
(Start: 46 @11752 has 6 MA's), (Start: 49 @11764 has 44 MA's), (57, 11779), (70, 11857), (74, 11905), (141, 12262), (145, 12286), (183, 12451), (192, 12499), (201, 12571), (214, 12652), (221, 12706), (252, 12925), (253, 12928), (261, 12982), (271, 13030), (281, 13093), (284, 13114), (285, 13117), (311, 13309), (312, 13318), (316, 13336), (319, 13354), (320, 13357), (325, 13399), (330, 13432), (345, 13522), (346, 13555), (349, 13672),

Gene: TyrionL_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for TyrionL_11:

(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429), (252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759), (306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999), (333, 11011),

Gene: UAch1_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for UAch1_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: UncleHowie_12 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for UncleHowie_12:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Usavi_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Usavi_12:
(Start: 53 @9754 has 282 MA's), (76, 9901), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437), (333, 11449),

Gene: Vaishali24_11 Start: 9429, Stop: 11174, Start Num: 53
Candidate Starts for Vaishali24_11:
(Start: 53 @9429 has 282 MA's), (76, 9576), (147, 9963), (172, 10089), (183, 10140), (201, 10248), (242, 10542), (244, 10551), (252, 10599), (260, 10644), (261, 10653), (263, 10662), (284, 10785), (296, 10863), (297, 10872), (306, 10947), (311, 10983), (316, 11010), (319, 11028), (322, 11052), (330, 11106), (331, 11112), (333, 11124),

Gene: Valjean_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Valjean_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870), (252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200), (306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440), (333, 11452),

Gene: Vaticameos_12 Start: 9461, Stop: 11206, Start Num: 53
Candidate Starts for Vaticameos_12:
(Start: 53 @9461 has 282 MA's), (76, 9608), (147, 9995), (172, 10121), (183, 10172), (201, 10280), (242, 10574), (252, 10631), (260, 10676), (261, 10685), (263, 10694), (284, 10817), (296, 10895), (297, 10904), (306, 10979), (311, 11015), (316, 11042), (319, 11060), (322, 11084), (330, 11138), (331, 11144), (333, 11156),

Gene: Veritas_11 Start: 9304, Stop: 11049, Start Num: 53
Candidate Starts for Veritas_11:
(Start: 53 @9304 has 282 MA's), (147, 9838), (172, 9964), (183, 10015), (201, 10123), (242, 10417), (252, 10474), (260, 10519), (261, 10528), (263, 10537), (284, 10660), (296, 10738), (297, 10747), (306, 10822), (311, 10858), (316, 10885), (319, 10903), (322, 10927), (330, 10981), (331, 10987), (333, 10999),

Gene: Vic9_00015 Start: 12851, Stop: 14878, Start Num: 48
Candidate Starts for Vic9_00015:
(Start: 48 @12851 has 37 MA's), (74, 12995), (77, 13016), (84, 13070), (99, 13184), (141, 13349),
(152, 13421), (183, 13538), (194, 13598), (197, 13616), (201, 13670), (214, 13751), (252, 14024),
(253, 14027), (263, 14093), (302, 14351), (311, 14411), (312, 14420), (316, 14438), (321, 14462),
(330, 14534), (338, 14582), (347, 14726), (349, 14765), (353, 14822), (354, 14858), (355, 14864),

Gene: Viceroy_24 Start: 13492, Stop: 15324, Start Num: 52
Candidate Starts for Viceroy_24:
(Start: 52 @13492 has 36 MA's), (55, 13501), (71, 13600), (122, 13966), (153, 14134), (157, 14149),
(171, 14209), (180, 14257), (181, 14263), (188, 14287), (205, 14404), (206, 14410), (219, 14503),
(232, 14584), (247, 14677), (249, 14692), (254, 14740), (259, 14764), (270, 14812), (272, 14836),
(280, 14884), (288, 14926), (304, 15061), (305, 15073), (307, 15082), (316, 15142), (327, 15211),
(331, 15244),

Gene: Vincenzo_13 Start: 12220, Stop: 14025, Start Num: 34
Candidate Starts for Vincenzo_13:
(1, 11848), (2, 11857), (Start: 34 @12220 has 47 MA's), (41, 12250), (47, 12271), (58, 12292), (83,
12475), (104, 12649), (141, 12769), (158, 12868), (165, 12895), (172, 12925), (176, 12946), (177,
12952), (178, 12955), (210, 13150), (225, 13249), (228, 13273), (233, 13321), (242, 13387), (260,
13492), (263, 13510), (268, 13531), (281, 13612), (290, 13660), (303, 13771), (305, 13786), (307,
13795), (311, 13828), (316, 13855), (322, 13897), (326, 13921), (330, 13951), (333, 13969),

Gene: VioletZ_12 Start: 11476, Stop: 13257, Start Num: 34
Candidate Starts for VioletZ_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11887),
(117, 11920), (141, 12016), (158, 12112), (165, 12139), (171, 12166), (172, 12169), (176, 12190),
(201, 12337), (224, 12484), (242, 12631), (253, 12691), (255, 12715), (258, 12733), (261, 12745),
(263, 12754), (268, 12775), (272, 12805), (281, 12856), (290, 12904), (297, 12961), (300, 13003),
(305, 13030), (308, 13042), (311, 13072), (316, 13099), (321, 13123), (322, 13141), (326, 13165),
(330, 13195), (331, 13201),

Gene: Virapocalypse_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Virapocalypse_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868),
(252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198),
(306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438),
(333, 11450),

Gene: Virgeve_11 Start: 9464, Stop: 11209, Start Num: 53
Candidate Starts for Virgeve_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283),
(242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898),
(297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141),
(331, 11147), (333, 11159),

Gene: Vista_12 Start: 9757, Stop: 11505, Start Num: 53
Candidate Starts for Vista_12:
(Start: 53 @9757 has 282 MA's), (147, 10294), (172, 10420), (183, 10471), (201, 10579), (242, 10873),
(252, 10930), (260, 10975), (261, 10984), (263, 10993), (284, 11116), (296, 11194), (297, 11203),
(306, 11278), (311, 11314), (316, 11341), (319, 11359), (322, 11383), (330, 11437), (331, 11443),
(333, 11455),

Gene: Vivaldi_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Vivaldi_12:
(Start: 53 @9755 has 282 MA's), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868),
(252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198),
(306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438),
(333, 11450),

Gene: Vortex_12 Start: 9465, Stop: 11210, Start Num: 53
Candidate Starts for Vortex_12:
(Start: 53 @9465 has 282 MA's), (76, 9612), (147, 9999), (172, 10125), (183, 10176), (201, 10284),
(242, 10578), (252, 10635), (260, 10680), (261, 10689), (263, 10698), (284, 10821), (296, 10899),
(297, 10908), (306, 10983), (311, 11019), (316, 11046), (319, 11064), (322, 11088), (330, 11142),
(331, 11148), (333, 11160),

Gene: Waleliano_12 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Waleliano_12:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Wallhey_11 Start: 9316, Stop: 11061, Start Num: 53
Candidate Starts for Wallhey_11:
(Start: 53 @9316 has 282 MA's), (147, 9850), (172, 9976), (183, 10027), (201, 10135), (242, 10429),
(252, 10486), (260, 10531), (261, 10540), (263, 10549), (284, 10672), (296, 10750), (297, 10759),
(306, 10834), (311, 10870), (316, 10897), (319, 10915), (322, 10939), (330, 10993), (331, 10999),
(333, 11011),

Gene: Waterdiva_12 Start: 9758, Stop: 11503, Start Num: 53
Candidate Starts for Waterdiva_12:
(Start: 53 @9758 has 282 MA's), (147, 10292), (172, 10418), (183, 10469), (201, 10577), (242, 10871),
(252, 10928), (260, 10973), (261, 10982), (263, 10991), (284, 11114), (296, 11192), (297, 11201),
(306, 11276), (311, 11312), (316, 11339), (319, 11357), (322, 11381), (330, 11435), (331, 11441),
(333, 11453),

Gene: Wayne3_26 Start: 14457, Stop: 16289, Start Num: 52
Candidate Starts for Wayne3_26:
(Start: 52 @14457 has 36 MA's), (55, 14466), (71, 14565), (122, 14931), (153, 15099), (157, 15114),
(171, 15174), (180, 15222), (181, 15228), (188, 15252), (205, 15369), (206, 15375), (219, 15468),
(232, 15549), (247, 15642), (249, 15657), (254, 15705), (259, 15729), (270, 15777), (272, 15801),
(280, 15849), (288, 15891), (304, 16026), (305, 16038), (307, 16047), (316, 16107), (327, 16176),
(331, 16209),

Gene: Weher20_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for Weher20_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (206, 10600),
(242, 10867), (252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188),
(297, 11197), (306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431),
(331, 11437), (333, 11449),

Gene: West99_15 Start: 12528, Stop: 14558, Start Num: 48

Candidate Starts for West99_15:
(Start: 48 @12528 has 37 MA's), (74, 12672), (77, 12693), (84, 12747), (90, 12774), (99, 12861), (141, 13029), (152, 13101), (183, 13218), (194, 13278), (197, 13296), (201, 13350), (214, 13431), (252, 13704), (253, 13707), (263, 13773), (302, 14031), (311, 14091), (312, 14100), (316, 14118), (321, 14142), (330, 14214), (338, 14262), (347, 14406), (349, 14445), (353, 14502), (354, 14538), (355, 14544),

Gene: WheelerS25_30 Start: 15293, Stop: 17119, Start Num: 52
Candidate Starts for WheelerS25_30:
(Start: 52 @15293 has 36 MA's), (55, 15302), (71, 15401), (112, 15728), (122, 15761), (153, 15929), (157, 15944), (171, 16004), (180, 16052), (181, 16058), (188, 16082), (204, 16196), (205, 16199), (206, 16205), (219, 16298), (232, 16379), (247, 16472), (249, 16487), (254, 16535), (259, 16559), (270, 16607), (272, 16631), (280, 16679), (288, 16721), (304, 16856), (307, 16877), (316, 16937), (327, 17006), (331, 17039),

Gene: Wheelie_24 Start: 13808, Stop: 15640, Start Num: 52
Candidate Starts for Wheelie_24:
(Start: 52 @13808 has 36 MA's), (55, 13817), (71, 13916), (122, 14282), (153, 14450), (157, 14465), (171, 14525), (180, 14573), (181, 14579), (188, 14603), (205, 14720), (206, 14726), (219, 14819), (232, 14900), (247, 14993), (249, 15008), (254, 15056), (259, 15080), (270, 15128), (272, 15152), (280, 15200), (288, 15242), (304, 15377), (305, 15389), (307, 15398), (316, 15458), (327, 15527), (331, 15560),

Gene: Wilca_24 Start: 12993, Stop: 14771, Start Num: 50
Candidate Starts for Wilca_24:
(Start: 50 @12993 has 33 MA's), (55, 13005), (97, 13350), (133, 13464), (153, 13590), (171, 13656), (180, 13704), (188, 13734), (219, 13947), (232, 14028), (233, 14037), (245, 14115), (247, 14121), (249, 14136), (272, 14280), (278, 14322), (288, 14373), (305, 14520), (307, 14529), (328, 14679), (331, 14691), (340, 14751),

Gene: Wilde_20 Start: 13011, Stop: 14774, Start Num: 50
Candidate Starts for Wilde_20:
(Start: 31 @12945 has 1 MA's), (Start: 50 @13011 has 33 MA's), (119, 13449), (138, 13518), (142, 13542), (154, 13611), (175, 13692), (197, 13800), (200, 13851), (202, 13863), (204, 13872), (233, 14064), (235, 14073), (236, 14076), (245, 14142), (249, 14163), (250, 14169), (252, 14187), (272, 14298), (282, 14358), (290, 14397), (295, 14439), (308, 14532), (312, 14571), (335, 14724),

Gene: Windsor_11 Start: 9418, Stop: 11163, Start Num: 53
Candidate Starts for Windsor_11:
(Start: 53 @9418 has 282 MA's), (147, 9952), (172, 10078), (183, 10129), (201, 10237), (242, 10531), (252, 10588), (260, 10633), (261, 10642), (263, 10651), (284, 10774), (296, 10852), (297, 10861), (306, 10936), (311, 10972), (316, 10999), (319, 11017), (322, 11041), (330, 11095), (331, 11101), (333, 11113),

Gene: Wooper_13 Start: 11332, Stop: 13017, Start Num: 51
Candidate Starts for Wooper_13:
(Start: 51 @11332 has 21 MA's), (70, 11419), (74, 11467), (101, 11659), (141, 11770), (145, 11794), (152, 11842), (176, 11932), (203, 12091), (205, 12100), (212, 12148), (224, 12226), (228, 12259), (233, 12307), (242, 12373), (251, 12421), (252, 12430), (253, 12433), (264, 12505), (270, 12523), (275, 12574), (284, 12619), (287, 12631), (290, 12646), (305, 12772), (311, 12814), (315, 12838), (316, 12841), (319, 12859),

Gene: Xavier_11 Start: 9464, Stop: 11209, Start Num: 53

Candidate Starts for Xavier_11:
(Start: 53 @9464 has 282 MA's), (76, 9611), (147, 9998), (172, 10124), (183, 10175), (201, 10283), (242, 10577), (252, 10634), (260, 10679), (261, 10688), (263, 10697), (284, 10820), (296, 10898), (297, 10907), (306, 10982), (311, 11018), (316, 11045), (319, 11063), (322, 11087), (330, 11141), (331, 11147), (333, 11159),

Gene: Xincheng_12 Start: 11300, Stop: 13078, Start Num: 34
Candidate Starts for Xincheng_12:
(Start: 34 @11300 has 47 MA's), (58, 11366), (83, 11549), (86, 11579), (104, 11708), (134, 11798), (141, 11837), (148, 11876), (165, 11960), (171, 11987), (172, 11990), (176, 12011), (201, 12158), (224, 12305), (239, 12437), (242, 12452), (253, 12512), (255, 12536), (258, 12554), (263, 12575), (268, 12596), (281, 12677), (290, 12725), (297, 12782), (300, 12824), (305, 12851), (308, 12863), (311, 12893), (312, 12902), (316, 12920), (321, 12944), (322, 12962), (326, 12986), (330, 13016), (331, 13022),

Gene: Yago84_11 Start: 10186, Stop: 11883, Start Num: 51
Candidate Starts for Yago84_11:
(Start: 51 @10186 has 21 MA's), (121, 10552), (127, 10567), (141, 10627), (152, 10699), (176, 10789), (196, 10879), (205, 10957), (242, 11227), (252, 11284), (261, 11341), (263, 11350), (281, 11452), (284, 11473), (288, 11491), (311, 11668), (314, 11686), (315, 11692), (316, 11695), (321, 11719), (325, 11758), (330, 11791), (331, 11797),

Gene: Yahalom_14 Start: 11038, Stop: 13053, Start Num: 49
Candidate Starts for Yahalom_14:
(43, 11014), (Start: 46 @11026 has 6 MA's), (Start: 49 @11038 has 44 MA's), (57, 11053), (70, 11131), (74, 11179), (141, 11536), (145, 11560), (183, 11725), (189, 11755), (192, 11773), (198, 11827), (201, 11845), (214, 11926), (221, 11980), (252, 12199), (253, 12202), (261, 12256), (271, 12304), (281, 12367), (284, 12388), (285, 12391), (311, 12583), (312, 12592), (316, 12610), (319, 12628), (320, 12631), (325, 12673), (330, 12706), (345, 12796), (346, 12829), (349, 12946),

Gene: Yeshua_13 Start: 11333, Stop: 13024, Start Num: 51
Candidate Starts for Yeshua_13:
(Start: 51 @11333 has 21 MA's), (70, 11420), (74, 11468), (101, 11660), (136, 11747), (141, 11777), (145, 11801), (152, 11849), (190, 11999), (193, 12017), (203, 12101), (205, 12110), (222, 12227), (228, 12266), (233, 12314), (242, 12380), (252, 12437), (253, 12440), (261, 12494), (264, 12512), (270, 12530), (275, 12581), (284, 12626), (287, 12638), (290, 12653), (305, 12779), (311, 12821), (315, 12845), (316, 12848), (319, 12866),

Gene: Yinz_14 Start: 11056, Stop: 13080, Start Num: 49
Candidate Starts for Yinz_14:
(Start: 49 @11056 has 44 MA's), (57, 11071), (70, 11149), (74, 11197), (114, 11458), (141, 11563), (145, 11587), (183, 11752), (192, 11800), (201, 11872), (214, 11953), (221, 12007), (252, 12226), (253, 12229), (261, 12283), (271, 12331), (281, 12394), (284, 12415), (285, 12418), (311, 12610), (312, 12619), (316, 12637), (319, 12655), (320, 12658), (325, 12700), (330, 12733), (346, 12856), (349, 12973),

Gene: Yoshand_12 Start: 9755, Stop: 11500, Start Num: 53
Candidate Starts for Yoshand_12:
(Start: 53 @9755 has 282 MA's), (76, 9902), (147, 10289), (172, 10415), (183, 10466), (201, 10574), (242, 10868), (252, 10925), (260, 10970), (261, 10979), (263, 10988), (284, 11111), (296, 11189), (297, 11198), (306, 11273), (311, 11309), (316, 11336), (319, 11354), (322, 11378), (330, 11432), (331, 11438), (333, 11450),

Gene: YouGoGlencoco_12 Start: 9754, Stop: 11499, Start Num: 53
Candidate Starts for YouGoGlencoco_12:
(Start: 53 @9754 has 282 MA's), (147, 10288), (172, 10414), (183, 10465), (201, 10573), (242, 10867),
(252, 10924), (260, 10969), (261, 10978), (263, 10987), (284, 11110), (296, 11188), (297, 11197),
(306, 11272), (311, 11308), (316, 11335), (319, 11353), (322, 11377), (330, 11431), (331, 11437),
(333, 11449),

Gene: Zagie_25 Start: 13996, Stop: 15828, Start Num: 52
Candidate Starts for Zagie_25:
(Start: 52 @13996 has 36 MA's), (55, 14005), (71, 14104), (122, 14470), (153, 14638), (157, 14653),
(171, 14713), (180, 14761), (181, 14767), (188, 14791), (205, 14908), (206, 14914), (219, 15007),
(232, 15088), (247, 15181), (249, 15196), (254, 15244), (259, 15268), (270, 15316), (272, 15340),
(280, 15388), (288, 15430), (304, 15565), (305, 15577), (307, 15586), (316, 15646), (327, 15715),
(331, 15748),

Gene: Zaider_13 Start: 9987, Stop: 11732, Start Num: 53
Candidate Starts for Zaider_13:
(Start: 53 @9987 has 282 MA's), (147, 10521), (172, 10647), (183, 10698), (201, 10806), (242, 11100),
(252, 11157), (260, 11202), (261, 11211), (263, 11220), (284, 11343), (296, 11421), (297, 11430),
(306, 11505), (311, 11541), (316, 11568), (319, 11586), (322, 11610), (330, 11664), (331, 11670),
(333, 11682),

Gene: Zelda_12 Start: 9757, Stop: 11502, Start Num: 53
Candidate Starts for Zelda_12:
(Start: 53 @9757 has 282 MA's), (147, 10291), (172, 10417), (183, 10468), (201, 10576), (242, 10870),
(252, 10927), (260, 10972), (261, 10981), (263, 10990), (284, 11113), (296, 11191), (297, 11200),
(306, 11275), (311, 11311), (316, 11338), (319, 11356), (322, 11380), (330, 11434), (331, 11440),
(333, 11452),

Gene: Zemanar_13 Start: 11476, Stop: 13254, Start Num: 34
Candidate Starts for Zemanar_13:
(Start: 34 @11476 has 47 MA's), (58, 11542), (81, 11692), (83, 11725), (86, 11755), (104, 11884),
(117, 11917), (141, 12013), (158, 12109), (165, 12136), (171, 12163), (172, 12166), (176, 12187),
(201, 12334), (224, 12481), (242, 12628), (253, 12688), (255, 12712), (258, 12730), (263, 12751),
(268, 12772), (281, 12853), (290, 12901), (297, 12958), (300, 13000), (305, 13027), (308, 13039),
(311, 13069), (316, 13096), (321, 13120), (322, 13138), (326, 13162), (330, 13192), (331, 13198),

Gene: Zenteno07_17 Start: 10822, Stop: 12648, Start Num: 34
Candidate Starts for Zenteno07_17:
(27, 10798), (Start: 34 @10822 has 47 MA's), (42, 10852), (57, 10894), (70, 10966), (123, 11314),
(131, 11344), (137, 11359), (147, 11419), (165, 11515), (171, 11542), (201, 11722), (229, 11905),
(233, 11947), (242, 12013), (252, 12070), (253, 12073), (268, 12157), (284, 12259), (287, 12274),
(288, 12280), (303, 12400), (305, 12415), (311, 12457), (316, 12484), (321, 12508), (322, 12526),
(329, 12577), (330, 12580), (333, 12598),

Gene: Zhafia_27 Start: 14319, Stop: 16151, Start Num: 52
Candidate Starts for Zhafia_27:
(Start: 52 @14319 has 36 MA's), (55, 14328), (71, 14427), (122, 14793), (153, 14961), (157, 14976),
(171, 15036), (180, 15084), (181, 15090), (188, 15114), (205, 15231), (206, 15237), (219, 15330),
(232, 15411), (247, 15504), (249, 15519), (254, 15567), (259, 15591), (270, 15639), (272, 15663),
(280, 15711), (288, 15753), (304, 15888), (305, 15900), (307, 15909), (316, 15969), (327, 16038),
(331, 16071),

Gene: Zonia_12 Start: 9771, Stop: 11516, Start Num: 53
Candidate Starts for Zonia_12:
(Start: 53 @9771 has 282 MA's), (147, 10305), (172, 10431), (183, 10482), (201, 10590), (242, 10884), (252, 10941), (260, 10986), (261, 10995), (263, 11004), (284, 11127), (296, 11205), (297, 11214), (306, 11289), (311, 11325), (316, 11352), (319, 11370), (322, 11394), (330, 11448), (331, 11454), (333, 11466),