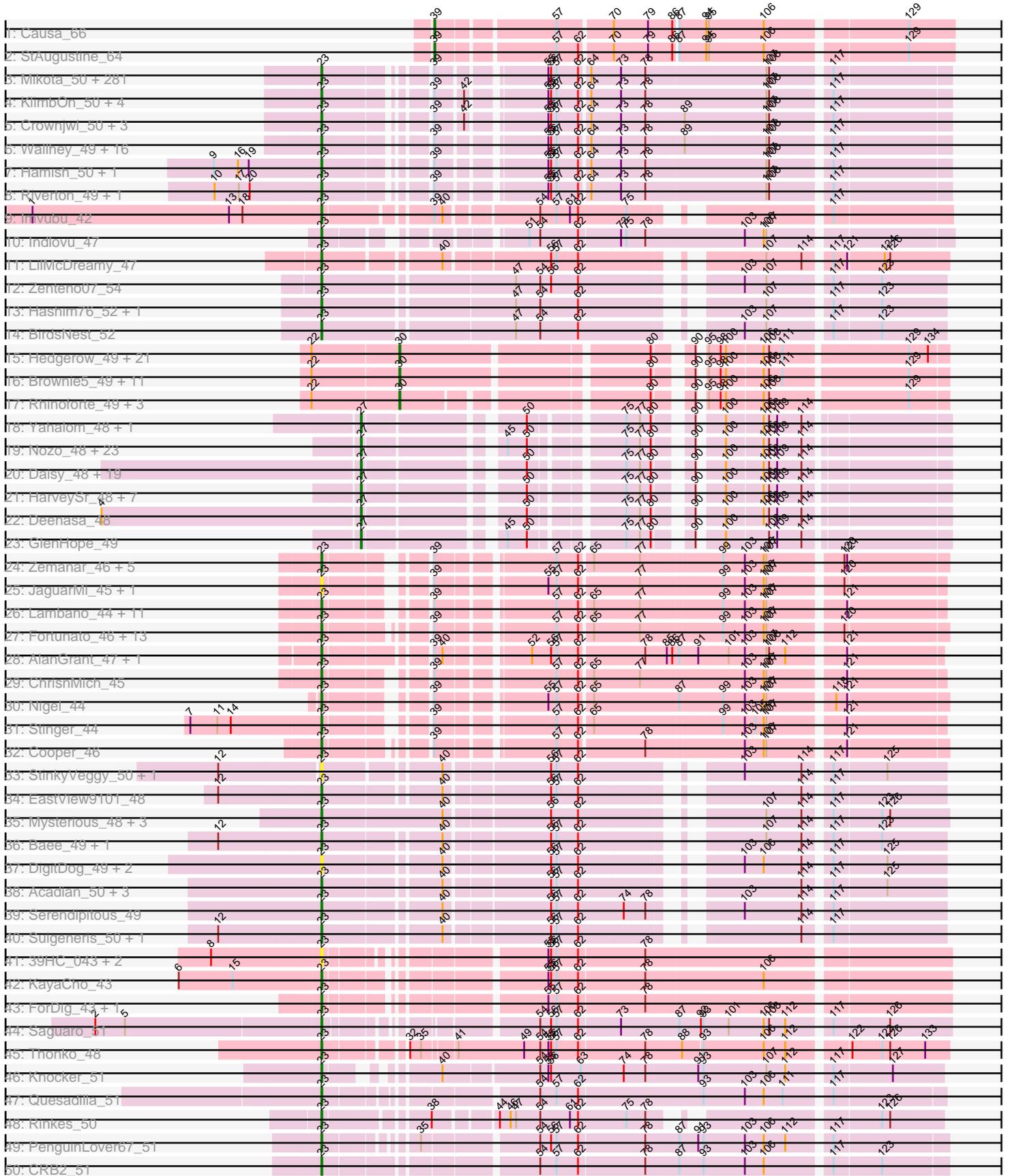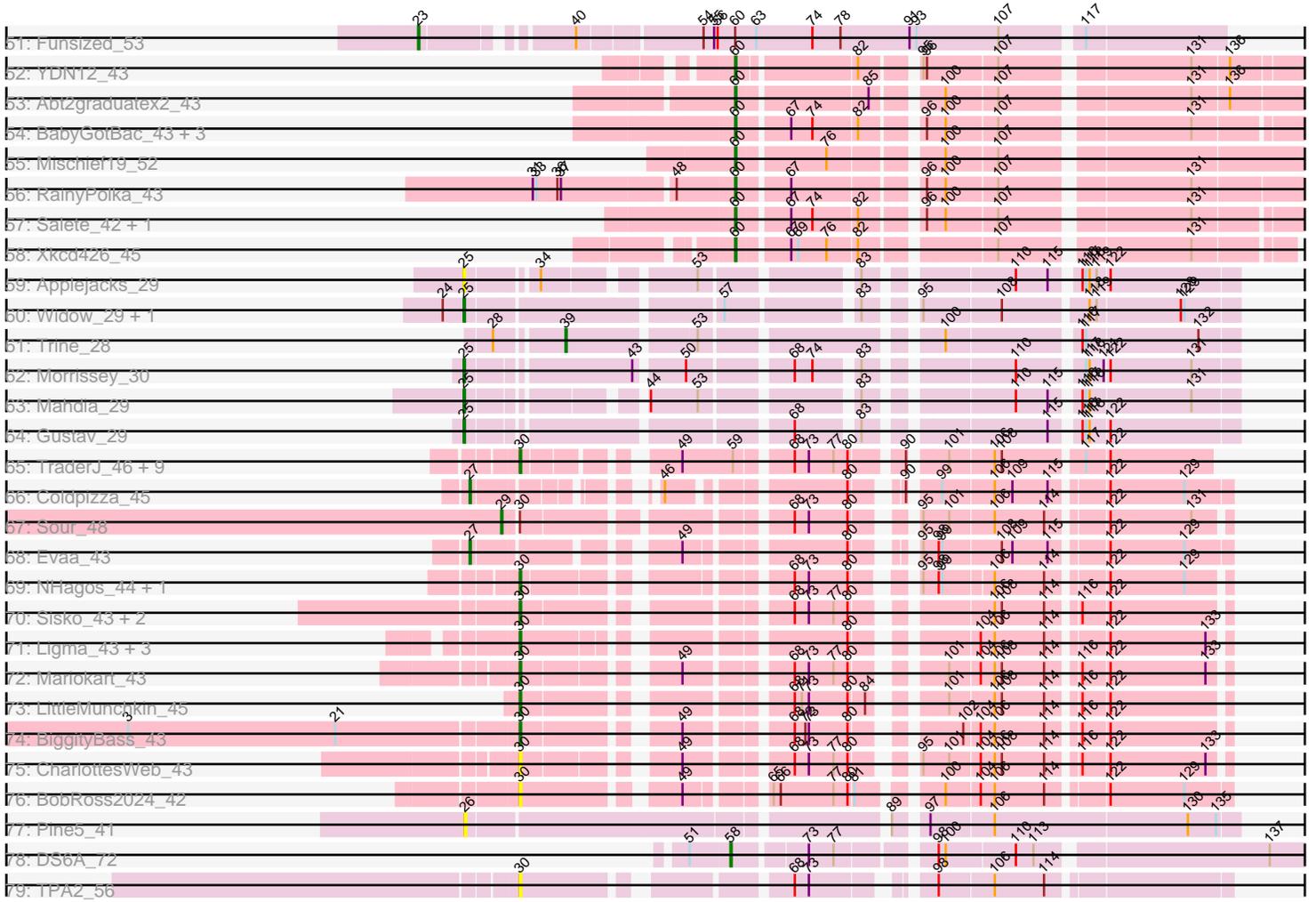Pham 285142

Pham 285142

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 285142 Report

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

Pham number 285142 has 536 members, 76 are drafts.

Phages represented in each track:
• Track 1 : Causa_66
• Track 2 : StAugustine_64
• Track 3 : Mikota_50, Bluephacebaby_49, HighStump_50, Hartsy_50, Piglet_0050, Apizium_50, Frankicide_50, Kwadwo_49, CamL_50, Beaglebox_49, PhenghisKhan_49, DoesntMatter_49, Haleema_49, ShadowBud_50, BlueHusk_50, SallyH_51, FluffyNinja_51, Chute_49, LostAndPhound_49, Suffolk_50, Lasso_50, True_49, Solosis_49, Timmi_49, ThreeOh3D2_51, AbsoluteMadLad_49, Aonishiki_51, Dice_49, Lulumae_49, Skippy_50, Coletti_50, LeiMonet_51, PhatLouie_50, ImtiyazSitla_50, PhrankReynolds_48, Dati_50, Eugenia_50, Telesworld_49, Cornobble_49, YouGoGlencoco_50, SassyCat97_49, Lehmann_50, Serendipity_50, Kloppinator_51, Trypo_51, Roy17_50, Maskar_50, Phergie_50, Zaider_51, HogWash_50, Xavier_49, Fringe_51, Jillium_49, DirtJuice_50, Haimas_50, TallGrassMM_50, HenryJackson_49, Burr_49, Pherdinand_51, Vaishali24_49, GreenChile_51, FugateOSU_49, Etaye_50, Surely_50, Mag7_49, Robyn_49, Orfeu_49, Nyala_49, Pipsqueak_50, Melc17_50, Virapocalypse_50, Gareth_49, Andre_51, Rimu_50, Kikipoo_51, CheetO_50, Ricotta_49, Chipette_51, Valjean_50, Squid_50, Morty_51, Daffy_50, Roscoe_51, DonSanchon_49, Vivaldi_51, Potter_49, Magic8_50, Morgushi_50, Chorkpop_50, Numberten_50, TooFast2Furius_53, MiniBoss_50, Serpentine_0050, Hetaeria_50, Soile_50, Spartan300_50, Mulan_50, Prickles_50, Fozzie_49, JangoPhett_50, Horchata_50, KingTut_41, MRabcd_49, Jesabah_50, MitKao_50, Boehler_50, Kahve_49, Keitherie_50, Vista_50, Inchworm_51, Riggan_50, Lumine_49, Olive_50, UAch1_50, Fang_51, Kailash_50, Gwennie1_50, CharlieGBrown_49, Quisquiliae_50, Jiraiya_49, Placalicious_49, BatteryCK_49, Cosmolli16_49, BlackStallion_51, Caspiboi_49, Hekos_47, JDog_49, FriarPreacher_49, Nicole21_50, Kwksand96_49, Slatt_50, Carthage_48, Waterdiva_50, Mesmerelda_49, Orwigg_49, KLucky39_50, Selr12_50, Phleuron_49, LuckyMarjie_49, Larson_52, Pacifista_49, Ashraf_50, Tooj_50, Cher_49, UncleHowie_50, LasagnaCat_51, Chuni_49, Veritas_49, Daka_51, ProfessorX_50, Gophee_50, Maru_49, Thora_50, Iridessa_50, MichaelPhcott_49, RedRaider89_52, PallasAthena_51, Megatron_51, LeeLot_50, FleetyMac_51, FremontTroll_50, ShiVal_50, AngelCake_50, ElvisPhasley_51, Simielle_49, PinheadLarry_50, DelRivs_49, Phipps_50, MelsMeow_50, Happabalu_50, Khan1_50, Aelin_49, OneBrain_51, CampRoach_51, Kimbrough_50, Childish_49, Oosterbaan_50, MrPhizzler_50, Bishoperium_49, TomBombadil_50, Mcshane_49, Craff_51, Anderson_50, Sigman_51, Durga_51, Badfish_51, Matalotodo_50, Banjo_49, Legolas_50, LemonSlice_50, Oline_49, ABU_51, Phareon_50, Chah_52, Hertubise_50, Karn_49, Cornbread_49, Zelda_50, PhrodoBaggins_50, Podrick_50,

SirBeauregard_50, Cannibal_50, QueenBeane_50, Mosaic_49, Buckeye_50, Freya_49, Adriana_51, Sheila_50, Grand2040_49, Vaticameos_46, Samaymay_50, Scrick_50, Eremos_50, Basato_51, Swiphy_50, Katniss_51, Windsor_49, Schadenfreude_49, Chaelin_50, Sophia_49, Lopsy_49, Orion_51, Scoot17C_51, Emiris_51, Nacho_0051, Brilliant_50, Charles1_50, Aleia_50, Colbert_50, KingVeVeVe_50, Megamind20_50, Cobra_50, Mutante_49, Dione_49, Omniscient_50, Plata_50, RedMaple_50, BoogieWoogie_49, Usavi_50, Phunky_50, Murdoc_50, Squiggle_50, DolOn_53, IsaacEli_51, Schueller_49, Mana_49, PhatCats2014_51, BlacksBerry_49, Iridoclysis_50, Lulwa_50, Nathan_50, Olak_49, Held_50, Gyarad_0050, Puhltonio_50, Giraffe_50, Altwerkus_49, Mecca_49, Longacauda_49, Roliet_50, Virgeve_49, Lego3393_49, Harvey_50, Swish_51, Thunderbird_49, Phamished_51, JacAttac_51, Pops_50, Toni_49, PG1_51, OSmaximus_51, Vortex_50, Triad_50, Gwilliam_50, Yoshand_51, OliverWalter_50, Hocus_49, Plmatters_50, Flake_52, Weher20_50, Tomlarah_50, Antonia_49
• Track 4 : KlimbOn_50, HSavage_50, Newman_50, Manad_50, Inverness_50
• Track 5 : Crownjwl_50, AltPhacts_50, Chunky_50, EmpTee_50
• Track 6 : Wallhey_49, Doddsville_50, Zonia_50, SDcharge11_50, Derpp_49, Labeouficaum_49, DaddyDaniels_50, Dingo_50, Struggle_49, Pinkman_49, GeneCoco_50, JakeO_49, Jiminy_49, Soto_50, Duggie_49, TyrionL_49, DuchessDung_49
• Track 7 : Hamish_50, SilverBell_50
• Track 8 : Riverton_49, Mesh1_50
• Track 9 : Imvubu_42
• Track 10 : Indlovu_47
• Track 11 : LilMcDreamy_47
• Track 12 : Zenteno07_54
• Track 13 : Hashim76_52, LittleMinkey_55
• Track 14 : BirdsNest_52
• Track 15 : Hedgerow_49, Eaglehorse_49, Boyle_49, Arbiter_48, Ares_49, Bananafish_49, Tres_49, TA17A_50, Qyrzula_46, Sabella_48, Glass_49, Lephleur_49, Phantasmagoria_49, Kaleb_49, LizLemon_49, FrenchFry_49, Faze9_48, West99_49, Kolhan_49, Lars_49, Opia_49, Rosebush_48
• Track 16 : Brownie5_49, Holeinone_49, MasterPo_49, ItsyBitsy1_49, Tinciduntsolum_50, PrinceCharming_49, Allegro_49, Kheth_49, Calamitous_49, Coffee_49, Vic9_00048, Laurie_48
• Track 17 : Rhinoforte_49, LilSmirk_49, Blocker23_49, Godines_49
• Track 18 : Yahalom_48, Briakila_49
• Track 19 : Nozo_48, Pipefish_50, Phaedrus_46, Philly_47, Corofin_48, Heathcliff_48, Halfpint_47, Chandler_48, Devonte_48, Gadjet_49, OrangeOswald_48, Kamiyu_48, Shenandoah_48, Compostia_49, SynergyX_48, Baloo_48, Chalmers_48, Bernardo_49, Athena_49, Jackstina_45, Yinz_48, RagingRooster_48, Akoma_48, Audrey_48
• Track 20 : Daisy_48, Rita1961_48, Obutu_48, Gervas_48, Marlia_48, Mortcellus_47, MmasiCarm_48, Casbah_47, SwainyDoc_48, TinyTerror_48, Phlyer_48, Phayeta_49, ChaChing_48, Ben11_47, Olivio_47, Glubnar_49, Neos5_48, SlippinJimmy_48, Chentzyk_48, Kronus_47
• Track 21 : HarveySr_48, Morty007_48, Abinghost_48, LestyG_48, Mulaychimus_48, RomaT_48, Marley1013_48, Tydolla_48
• Track 22 : Deenasa_48
• Track 23 : GlenHope_49
• Track 24 : Zemanar_46, JoyceMaria_45, Waleliano_45, BrownCNA_47, Hangman_45, Mithril_45
• Track 25 : JaguarMi_45, Xincheng_44

- Track 26 : Lambano_44, Epah_44, JAMaL_45, GinPorsche_45, Hally898_44, Antihero_44, Nanao_44, Renkei_44, Ahwei_44, LittleDigger_44, QueenPie_44, Poster_44
- Track 27 : Fortunato_46, Prince_45, Hydro_45, Heath_44, VioletZ_47, Fanaw_44, BobbyK_46, Magpie_44, Austelle_46, Lolalove_46, Mudslide_45, RawrgerThat_46, Frederick_46, Apex_46
- Track 28 : AlanGrant_47, Vincenzo_46
- Track 29 : ChrisnMich_45
- Track 30 : Nigel_44
- Track 31 : Stinger_44
- Track 32 : Cooper_46
- Track 33 : StinkyVeggy_50, KarasumaRum_50
- Track 34 : EastView9101_48
- Track 35 : Mysterious_48, Nehemiah_49, Reprobate_49, Phelemich_48
- Track 36 : Baee_49, Rich_48
- Track 37 : DigitDog_49, Nangang_49, Shenyu_49
- Track 38 : Acadian_50, Reccee_50, SirJeffery_49, Rita130_49
- Track 39 : Serendipitous_49
- Track 40 : Suigeneris_50, Donny_50
- Track 41 : 39HC_043, 40BC_043, Hosp_041
- Track 42 : KayaCho_43
- Track 43 : ForDig_43, Jolie1_043
- Track 44 : Saguaro_51
- Track 45 : Thonko_48
- Track 46 : Knocker_51
- Track 47 : Quesadilla_51
- Track 48 : Rinkes_50
- Track 49 : PenguinLover67_51
- Track 50 : CRB2_51
- Track 51 : Funsized_53
- Track 52 : YDN12_43
- Track 53 : Abt2graduatex2_43
- Track 54 : BabyGotBac_43, TP1604_42, Asis_42, Maih_41
- Track 55 : Mischief19_52
- Track 56 : RainyPolka_43
- Track 57 : Salete_42, BayC_42
- Track 58 : Xkcd426_45
- Track 59 : Applejacks_29
- Track 60 : Widow_29, Puppers_29
- Track 61 : Trine_28
- Track 62 : Morrissey_30
- Track 63 : Mahdia_29
- Track 64 : Gustav_29
- Track 65 : TraderJ_46, MossRose_46, Yeshua_46, AnarQue_46, FelixTres_46, CloverMinnie_46, Blackpen_46, MakoManhole_46, Wooper_46, CaiB_46
- Track 66 : Coldpizza_45
- Track 67 : Sour_48
- Track 68 : Evaa_43
- Track 69 : NHagos_44, AksarBAT_44
- Track 70 : Sisko_43, AnClar_44, Yago84_43
- Track 71 : Ligma_43, Fresco_43, Shatter_43, Axumite_43
- Track 72 : Mariokart_43
- Track 73 : LittleMunchkin_45

- Track 74 : BiggityBass_43
- Track 75 : CharlottesWeb_43
- Track 76 : BobRoss2024_42
- Track 77 : Pine5_41
- Track 78 : DS6A_72
- Track 79 : TPA2_56

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

The start number called the most often in the published annotations is 23, it was called in 332 of the 460 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- 39HC_043, 40BC_043, ABU_51, AbsoluteMadLad_49, Acadian_50, Adriana_51, Aelin_49, Ahwei_44, AlanGrant_47, Aleia_50, AltPhacts_50, Altwerkus_49, Anderson_50, Andre_51, AngelCake_50, Antihero_44, Antonia_49, Aonishiki_51, Apex_46, Apizium_50, Ashraf_50, Austelle_46, Badfish_51, Baee_49, Banjo_49, Basato_51, BatteryCK_49, Beaglebox_49, BirdsNest_52, Bishoperium_49, BlackStallion_51, BlacksBerry_49, BlueHusk_50, Bluephacebaby_49, BobbyK_46, Boehler_50, BoogieWoogie_49, Brilliant_50, BrownCNA_47, Buckeye_50, Burr_49, CRB2_51, CamL_50, CampRoach_51, Cannibal_50, Carthage_48, Caspiboi_49, Chaelin_50, Chah_52, Charles1_50, CharlieGBrown_49, CheetO_50, Cher_49, Childish_49, Chipette_51, Chorkpop_50, ChrisnMich_45, Chuni_49, Chunky_50, Chute_49, Cobra_50, Colbert_50, Coletti_50, Cooper_46, Cornbread_49, Cornobble_49, Cosmolli16_49, Craff_51, Crownjwl_50, DaddyDaniels_50, Daffy_50, Daka_51, Dati_50, DelRivs_49, Derpp_49, Dice_49, DigitDog_49, Dingo_50, Dione_49, DirtJuice_50, Doddsville_50, DoesntMatter_49, DolOn_53, DonSanchon_49, Donny_50, DuchessDung_49, Duggie_49, Durga_51, EastView9101_48, ElvisPhasley_51, Emiris_51, EmpTee_50, Epah_44, Eremos_50, Etaye_50, Eugenia_50, Fanaw_44, Fang_51, Flake_52, FleetyMac_51, FluffyNinja_51, ForDig_43, Fortunato_46, Fozzie_49, Frankicide_50, Frederick_46, FremontTroll_50, Freya_49, FriarPreacher_49, Fringe_51, FugateOSU_49, Funsized_53, Gareth_49, GeneCoco_50, GinPorsche_45, Giraffe_50, Gophee_50, Grand2040_49, GreenChile_51, Gwennie1_50, Gwilliam_50, Gyarad_0050, HSavage_50, Haimas_50, Haleema_49, Hally898_44, Hamish_50, Hangman_45, Happabalu_50, Hartsy_50, Harvey_50, Hashim76_52, Heath_44, Hekos_47, Held_50, HenryJackson_49, Hertubise_50, Hetaeria_50, HighStump_50, Hocus_49, HogWash_50, Horchata_50, Hosp_041, Hydro_45, ImtiyazSitla_50, Imvubu_42, Inchworm_51, Indlovu_47, Inverness_50, Iridessa_50, Iridoclysis_50, IsaacEli_51, JAMaL_45, JDog_49, JacAttac_51, JaguarMi_45, JakeO_49, JangoPhett_50, Jesabah_50, Jillium_49, Jiminy_49, Jiraiya_49, Jolie1_043, JoyceMaria_45, KLucky39_50, Kahve_49, Kailash_50, KarasumaRum_50, Karn_49, Katniss_51, KayaCho_43, Keitherie_50, Khan1_50, Kikipoo_51, Kimbrough_50, KingTut_41, KingVeVeVe_50, KlimbOn_50, Kloppinator_51, Knocker_51, Kwadwo_49, Kwksand96_49, Labeouficaum_49, Lambano_44, Larson_52, LasagnaCat_51, Lasso_50, LeeLot_50, Lego3393_49, Legolas_50, Lehmann_50, LeiMonet_51, LemonSlice_50, LilMcDreamy_47, LittleDigger_44, LittleMinkey_55, Lolalove_46, Longacauda_49, Lopsy_49, LostAndPhound_49, LuckyMarjie_49, Lulumae_49, Lulwa_50, Lumine_49, MRabcd_49, Mag7_49, Magic8_50, Magpie_44, Mana_49, Manad_50, Maru_49, Maskar_50, Matalotodo_50, Mcshane_49, Mecca_49,

Megamind20_50, Megatron_51, Melc17_50, MelsMeow_50, Mesh1_50, Mesmerelda_49, MichaelPhcott_49, Mikota_50, MiniBoss_50, MitKao_50, Mithril_45, Morgushi_50, Morty_51, Mosaic_49, MrPhizzler_50, Mudslide_45, Mulan_50, Murdoc_50, Mutante_49, Mysterious_48, Nacho_0051, Nanao_44, Nangang_49, Nathan_50, Nehemiah_49, Newman_50, Nicole21_50, Nigel_44, Numberten_50, Nyala_49, OSmaximus_51, Olak_49, Oline_49, Olive_50, OliverWalter_50, Omniscient_50, OneBrain_51, Oosterbaan_50, Orfeu_49, Orion_51, Orwigg_49, PG1_51, Pacifista_49, PallasAthena_51, PenguinLover67_51, Phamished_51, Phareon_50, PhatCats2014_51, PhatLouie_50, Phelemich_48, PhenghisKhan_49, Pherdinand_51, Phergie_50, Phipps_50, Phleuron_49, PhrankReynolds_48, PhrodoBaggins_50, Phunky_50, Piglet_0050, PinheadLarry_50, Pinkman_49, Pipsqueak_50, Placalicious_49, Plata_50, Plmatters_50, Podrick_50, Pops_50, Poster_44, Potter_49, Prickles_50, Prince_45, ProfessorX_50, Puhltonio_50, QueenBeane_50, QueenPie_44, Quesadilla_51, Quisquiliae_50, RawrgerThat_46, Reccee_50, RedMaple_50, RedRaider89_52, Renkei_44, Reprobate_49, Rich_48, Ricotta_49, Riggan_50, Rimu_50, Rinkes_50, Rita130_49, Riverton_49, Robyn_49, Roliet_50, Roscoe_51, Roy17_50, SDcharge11_50, Saguaro_51, SallyH_51, Samaymay_50, SassyCat97_49, Schadenfreude_49, Schueller_49, Scoot17C_51, Scrick_50, Selr12_50, Serendipitous_49, Serendipity_50, Serpentine_0050, ShadowBud_50, Sheila_50, Shenyu_49, ShiVal_50, Sigman_51, SilverBell_50, Simielle_49, SirBeauregard_50, SirJeffery_49, Skippy_50, Slatt_50, Soile_50, Solosis_49, Sophia_49, Soto_50, Spartan300_50, Squid_50, Squiggle_50, Stinger_44, StinkyVeggy_50, Struggle_49, Suffolk_50, Suigeneris_50, Surely_50, Swiphy_50, Swish_51, TallGrassMM_50, Telesworld_49, Thonko_48, Thora_50, ThreeOh3D2_51, Thunderbird_49, Timmi_49, TomBombadil_50, Tomlarah_50, Toni_49, TooFast2Furius_53, Tooj_50, Triad_50, True_49, Trypo_51, TyrionL_49, UAch1_50, UncleHowie_50, Usavi_50, Vaishali24_49, Valjean_50, Vaticameos_46, Veritas_49, Vincenzo_46, VioletZ_47, Virapocalypse_50, Virgeve_49, Vista_50, Vivaldi_51, Vortex_50, Waleliano_45, Wallhey_49, Waterdiva_50, Weher20_50, Windsor_49, Xavier_49, Xincheng_44, Yoshand_51, YouGoGlencoco_50, Zaider_51, Zelda_50, Zemanar_46, Zenteno07_54, Zonia_50,

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

Genes that do not have the "Most Annotated" start:
• Abinghost_48, Abt2graduatex2_43, Akoma_48, AksarBAT_44, Allegro_49, AnClar_44, AnarQue_46, Applejacks_29, Arbiter_48, Ares_49, Asis_42, Athena_49, Audrey_48, Axumite_43, BabyGotBac_43, Baloo_48, Bananafish_49, BayC_42, Ben11_47, Bernardo_49, BiggityBass_43, Blackpen_46, Blocker23_49, BobRoss2024_42, Boyle_49, Briakila_49, Brownie5_49, CaiB_46, Calamitous_49, Casbah_47, Causa_66, ChaChing_48, Chalmers_48, Chandler_48, CharlottesWeb_43, Chentzyk_48, CloverMinnie_46, Coffee_49, Coldpizza_45, Compostia_49, Corofin_48, DS6A_72, Daisy_48, Deenasa_48, Devonte_48, Eaglehorse_49, Evaa_43, Faze9_48, FelixTres_46, FrenchFry_49, Fresco_43, Gadjet_49, Gervas_48, Glass_49, GlenHope_49, Glubnar_49, Godines_49, Gustav_29, Halfpint_47, HarveySr_48, Heathcliff_48, Hedgerow_49, Holeinone_49, ItsyBitsy1_49, Jackstina_45, Kaleb_49, Kamiyu_48, Kheth_49, Kolhan_49, Kronus_47, Lars_49, Laurie_48, Lephleur_49, LestyG_48, Ligma_43, LilSmirk_49, LittleMunchkin_45, LizLemon_49, Mahdia_29, Maih_41, MakoManhole_46, Mariokart_43, Marley1013_48, Marlia_48, MasterPo_49, Mischief19_52, MmasiCarm_48, Morrissey_30, Mortcellus_47, Morty007_48, MossRose_46, Mulaychimus_48, NHagos_44, Neos5_48, Nozo_48, Obutu_48, Olivio_47, Opia_49,

OrangeOswald_48, Phaedrus_46, Phantasmagoria_49, Phayeta_49, Philly_47, Phlyer_48, Pine5_41, Pipefish_50, PrinceCharming_49, Puppers_29, Qyrzula_46, RagingRooster_48, RainyPolka_43, Rhinoforte_49, Rita1961_48, RomaT_48, Rosebush_48, Sabella_48, Salete_42, Shatter_43, Shenandoah_48, Sisko_43, SlippinJimmy_48, Sour_48, StAugustine_64, SwainyDoc_48, SynergyX_48, TA17A_50, TP1604_42, TPA2_56, Tinciduntsolum_50, TinyTerror_48, TraderJ_46, Tres_49, Trine_28, Tydolla_48, Vic9_00048, West99_49, Widow_29, Wooper_46, Xkcd426_45, YDN12_43, Yago84_43, Yahalom_48, Yeshua_46, Yinz_48,

Summary by start number:

Start 23:
• Found in 392 of 536 (73.1%) of genes in pham
• Manual Annotations of this start: 332 of 460
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 39HC_043 (B6), 40BC_043 (B6), ABU_51 (B1), AbsoluteMadLad_49 (B1), Acadian_50 (B5), Adriana_51 (B1), Aelin_49 (B1), Ahwei_44 (B4), AlanGrant_47 (B4), Aleia_50 (B1), AltPhacts_50 (B1), Altwerkus_49 (B1), Anderson_50 (B1), Andre_51 (B1), AngelCake_50 (B1), Antihero_44 (B4), Antonia_49 (B1), Aonishiki_51 (B1), Apex_46 (B4), Apizium_50 (B1), Ashraf_50 (B1), Austelle_46 (B4), Badfish_51 (B1), Baee_49 (B5), Banjo_49 (B1), Basato_51 (B1), BatteryCK_49 (B1), Beaglebox_49 (B1), BirdsNest_52 (B13), Bishoperium_49 (B1), BlackStallion_51 (B1), BlacksBerry_49 (B1), BlueHusk_50 (B1), Bluephacebaby_49 (B1), BobbyK_46 (B4), Boehler_50 (B1), BoogieWoogie_49 (B1), Brilliant_50 (B1), BrownCNA_47 (B4), Buckeye_50 (B1), Burr_49 (B1), CRB2_51 (B9), CamL_50 (B1), CampRoach_51 (B1), Cannibal_50 (B1), Carthage_48 (B1), Caspiboi_49 (B1), Chaelin_50 (B1), Chah_52 (B1), Charles1_50 (B1), CharlieGBrown_49 (B1), CheetO_50 (B1), Cher_49 (B1), Childish_49 (B1), Chipette_51 (B1), Chorkpop_50 (B1), ChrisnMich_45 (B4), Chuni_49 (B1), Chunky_50 (B1), Chute_49 (B1), Cobra_50 (B1), Colbert_50 (B1), Coletti_50 (B1), Cooper_46 (B4), Cornbread_49 (B1), Cornobble_49 (B1), Cosmolli16_49 (B1), Craff_51 (B1), Crownjwl_50 (B1), DaddyDaniels_50 (B1), Daffy_50 (B1), Daka_51 (B1), Dati_50 (B1), DelRivs_49 (B1), Derpp_49 (B1), Dice_49 (B1), DigitDog_49 (B5), Dingo_50 (B1), Dione_49 (B1), DirtJuice_50 (B1), Doddsville_50 (B1), DoesntMatter_49 (B1), DolOn_53 (B1), DonSanchon_49 (B1), Donny_50 (B5), DuchessDung_49 (B1), Duggie_49 (B1), Durga_51 (B1), EastView9101_48 (B5), ElvisPhasley_51 (B1), Emiris_51 (B1), EmpTee_50 (B1), Epah_44 (B4), Eremos_50 (B1), Etaye_50 (B1), Eugenia_50 (B1), Fanaw_44 (B4), Fang_51 (B1), Flake_52 (B1), FleetyMac_51 (B1), FluffyNinja_51 (B1), ForDig_43 (B6), Fortunato_46 (B4), Fozzie_49 (B1), Frankicide_50 (B1), Frederick_46 (B4), FremontTroll_50 (B1), Freya_49 (B1), FriarPreacher_49 (B1), Fringe_51 (B1), FugateOSU_49 (B1), Funsized_53 (B9), Gareth_49 (B1), GeneCoco_50 (B1), GinPorsche_45 (B4), Giraffe_50 (B1), Gophee_50 (B1), Grand2040_49 (B1), GreenChile_51 (B1), Gwennie1_50 (B1), Gwilliam_50 (B1), Gyarad_0050 (B1), HSavage_50 (B1), Haimas_50 (B1), Haleema_49 (B1), Hally898_44 (B4), Hamish_50 (B1), Hangman_45 (B4), Happabalu_50 (B1), Hartsy_50 (B1), Harvey_50 (B1), Hashim76_52 (B13), Heath_44 (B4), Hekos_47 (B1), Held_50 (B1), HenryJackson_49 (B1), Hertubise_50 (B1), Hetaeria_50 (B1), HighStump_50 (B1), Hocus_49 (B1), HogWash_50 (B1), Horchata_50 (B1), Hosp_041 (B6), Hydro_45 (B4), ImtiyazSitla_50 (B1), Imvubu_42 (B10), Inchworm_51 (B1), Indlovu_47 (B11), Inverness_50 (B1), Iridessa_50 (B1), Iridoclysis_50 (B1), IsaacEli_51 (B1), JAMaL_45 (B4), JDog_49 (B1), JacAttac_51 (B1), JaguarMi_45 (B4), JakeO_49 (B1), JangoPhett_50 (B1), Jesabah_50 (B1), Jillium_49 (B1), Jiminy_49 (B1), Jiraiya_49

(B1), Jolie1_043 (B6), JoyceMaria_45 (B4), KLucky39_50 (B1), Kahve_49 (B1), Kailash_50 (B1), KarasumaRum_50 (B5), Karn_49 (B1), Katniss_51 (B1), KayaCho_43 (B6), Keitherie_50 (B1), Khan1_50 (B1), Kikipoo_51 (B1), Kimbrough_50 (B1), KingTut_41 (B1), KingVeVeVe_50 (B1), KlimbOn_50 (B1), Kloppinator_51 (B1), Knocker_51 (B9), Kwadwo_49 (B1), Kwksand96_49 (B1), Labeouficaum_49 (B1), Lambano_44 (B4), Larson_52 (B1), LasagnaCat_51 (B1), Lasso_50 (B1), LeeLot_50 (B1), Lego3393_49 (B1), Legolas_50 (B1), Lehmann_50 (B1), LeiMonet_51 (B1), LemonSlice_50 (B1), LilMcDreamy_47 (B12), LittleDigger_44 (B4), LittleMinkey_55 (B13), Lolalove_46 (B4), Longacauda_49 (B1), Lopsy_49 (B1), LostAndPhound_49 (B1), LuckyMarjie_49 (B1), Lulumae_49 (B1), Lulwa_50 (B1), Lumine_49 (B1), MRabcd_49 (B1), Mag7_49 (B1), Magic8_50 (B1), Magpie_44 (B4), Mana_49 (B1), Manad_50 (B1), Maru_49 (B1), Maskar_50 (B1), Matalotodo_50 (B1), Mcshane_49 (B1), Mecca_49 (B1), Megamind20_50 (B1), Megatron_51 (B1), Melc17_50 (B1), MelsMeow_50 (B1), Mesh1_50 (B1), Mesmerelda_49 (B1), MichaelPhcott_49 (B1), Mikota_50 (B1), MiniBoss_50 (B1), MitKao_50 (B1), Mithril_45 (B4), Morgushi_50 (B1), Morty_51 (B1), Mosaic_49 (B1), MrPhizzler_50 (B1), Mudslide_45 (B4), Mulan_50 (B1), Murdoc_50 (B1), Mutante_49 (B1), Mysterious_48 (B5), Nacho_0051 (B1), Nanao_44 (B4), Nangang_49 (B5), Nathan_50 (B1), Nehemiah_49 (B5), Newman_50 (B1), Nicole21_50 (B1), Nigel_44 (B4), Numberten_50 (B1), Nyala_49 (B1), OSmaximus_51 (B1), Olak_49 (B1), Oline_49 (B1), Olive_50 (B1), OliverWalter_50 (B1), Omniscient_50 (B1), OneBrain_51 (B1), Oosterbaan_50 (B1), Orfeu_49 (B1), Orion_51 (B1), Orwigg_49 (B1), PG1_51 (B1), Pacifista_49 (B1), PallasAthena_51 (B1), PenguinLover67_51 (B9), Phamished_51 (B1), Phareon_50 (B1), PhatCats2014_51 (B1), PhatLouie_50 (B1), Phelemich_48 (B5), PhenghisKhan_49 (B1), Pherdinand_51 (B1), Phergie_50 (B1), Phipps_50 (B1), Phleuron_49 (B1), PhrankReynolds_48 (B1), PhrodoBaggins_50 (B1), Phunky_50 (B1), Piglet_0050 (B1), PinheadLarry_50 (B1), Pinkman_49 (B1), Pipsqueak_50 (B1), Placalicious_49 (B1), Plata_50 (B1), Plmatters_50 (B1), Podrick_50 (B1), Pops_50 (B1), Poster_44 (B4), Potter_49 (B1), Prickles_50 (B1), Prince_45 (B4), ProfessorX_50 (B1), Puhltonio_50 (B1), QueenBeane_50 (B1), QueenPie_44 (B4), Quesadilla_51 (B9), Quisquiliae_50 (B1), RawrgerThat_46 (B4), Reccee_50 (B5), RedMaple_50 (B1), RedRaider89_52 (B1), Renkei_44 (B4), Reprobate_49 (B5), Rich_48 (B5), Ricotta_49 (B1), Riggan_50 (B1), Rimu_50 (B1), Rinkes_50 (B9), Rita130_49 (B5), Riverton_49 (B1), Robyn_49 (B1), Roliet_50 (B1), Roscoe_51 (B1), Roy17_50 (B1), SDcharge11_50 (B1), Saguaro_51 (B7), SallyH_51 (B1), Samaymay_50 (B1), SassyCat97_49 (B1), Schadenfreude_49 (B1), Schueller_49 (B1), Scoot17C_51 (B1), Scrick_50 (B1), Selr12_50 (B1), Serendipitous_49 (B5), Serendipity_50 (B1), Serpentine_0050 (B1), ShadowBud_50 (B1), Sheila_50 (B1), Shenyu_49 (B5), ShiVal_50 (B1), Sigman_51 (B1), SilverBell_50 (B1), Simielle_49 (B1), SirBeauregard_50 (B1), SirJeffery_49 (B5), Skippy_50 (B1), Slatt_50 (B1), Soile_50 (B1), Solosis_49 (B1), Sophia_49 (B1), Soto_50 (B1), Spartan300_50 (B1), Squid_50 (B1), Squiggle_50 (B1), Stinger_44 (B4), StinkyVeggy_50 (B5), Struggle_49 (B1), Suffolk_50 (B1), Suigeneris_50 (B5), Surely_50 (B1), Swiphy_50 (B1), Swish_51 (B1), TallGrassMM_50 (B1), Telesworld_49 (B1), Thonko_48 (B8), Thora_50 (B1), ThreeOh3D2_51 (B1), Thunderbird_49 (B1), Timmi_49 (B1), TomBombadil_50 (B1), Tomlarah_50 (B1), Toni_49 (B1), TooFast2Furius_53 (B1), Tooj_50 (B1), Triad_50 (B1), True_49 (B1), Trypo_51 (B1), TyrionL_49 (B1), UAch1_50 (B1), UncleHowie_50 (B1), Usavi_50 (B1), Vaishali24_49 (B1), Valjean_50 (B1), Vaticameos_46 (B1), Veritas_49 (B1), Vincenzo_46 (B4), VioletZ_47 (B4), Virapocalypse_50 (B1), Virgeve_49 (B1), Vista_50 (B1), Vivaldi_51 (B1), Vortex_50 (B1), Waleliano_45 (B4), Wallhey_49 (B1), Waterdiva_50 (B1), Weher20_50 (B1), Windsor_49 (B1), Xavier_49 (B1), Xincheng_44 (B4), Yoshand_51 (B1), YouGoGlencoco_50 (B1), Zaider_51 (B1),

Zelda_50 (B1), Zemanar_46 (B4), Zenteno07_54 (B13), Zonia_50 (B1),

Start 25:
• Found in 6 of 536 (1.1%) of genes in pham
• Manual Annotations of this start: 5 of 460
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_29 (CD), Gustav_29 (CD), Mahdia_29 (CD), Morrissey_30 (CD), Puppers_29 (CD), Widow_29 (CD),

Start 26:
• Found in 1 of 536 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pine5_41 (singleton),

Start 27:
• Found in 58 of 536 (10.8%) of genes in pham
• Manual Annotations of this start: 52 of 460
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abinghost_48 (B3), Akoma_48 (B3), Athena_49 (B3), Audrey_48 (B3), Baloo_48 (B3), Ben11_47 (B3), Bernardo_49 (B3), Briakila_49 (B3), Casbah_47 (B3), ChaChing_48 (B3), Chalmers_48 (B3), Chandler_48 (B3), Chentzyk_48 (B3), Coldpizza_45 (DR), Compostia_49 (B3), Corofin_48 (B3), Daisy_48 (B3), Deenasa_48 (B3), Devonte_48 (B3), Evaa_43 (DR), Gadjet_49 (B3), Gervas_48 (B3), GlenHope_49 (B3), Glubnar_49 (B3), Halfpint_47 (B3), HarveySr_48 (B3), Heathcliff_48 (B3), Jackstina_45 (B3), Kamiyu_48 (B3), Kronus_47 (B3), LestyG_48 (B3), Marley1013_48 (B3), Marlia_48 (B3), MmasiCarm_48 (B3), Mortcellus_47 (B3), Morty007_48 (B3), Mulaychimus_48 (B3), Neos5_48 (B3), Nozo_48 (B3), Obutu_48 (B3), Olivio_47 (B3), OrangeOswald_48 (B3), Phaedrus_46 (B3), Phayeta_49 (B3), Philly_47 (B3), Phlyer_48 (B3), Pipefish_50 (B3), RagingRooster_48 (B3), Rita1961_48 (B3), RomaT_48 (B3), Shenandoah_48 (B3), SlippinJimmy_48 (B3), SwainyDoc_48 (B3), SynergyX_48 (B3), TinyTerror_48 (B3), Tydolla_48 (B3), Yahalom_48 (B3), Yinz_48 (B3),

Start 29:
• Found in 1 of 536 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 460
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sour_48 (DR),

Start 30:
• Found in 64 of 536 (11.9%) of genes in pham
• Manual Annotations of this start: 55 of 460
• Called 98.4% of time when present
• Phage (with cluster) where this start called: AksarBAT_44 (DR), Allegro_49 (B2), AnClar_44 (DR), AnarQue_46 (DR), Arbiter_48 (B2), Ares_49 (B2), Axumite_43 (DR), Bananafish_49 (B2), BiggityBass_43 (DR), Blackpen_46 (DR), Blocker23_49 (B2), BobRoss2024_42 (DR), Boyle_49 (B2), Brownie5_49 (B2), CaiB_46 (DR), Calamitous_49 (B2), CharlottesWeb_43 (DR), CloverMinnie_46 (DR), Coffee_49 (B2), Eaglehorse_49 (B2), Faze9_48 (B2), FelixTres_46 (DR), FrenchFry_49 (B2), Fresco_43 (DR), Glass_49 (B2), Godines_49 (B2), Hedgerow_49 (B2), Holeinone_49 (B2), ItsyBitsy1_49 (B2), Kaleb_49 (B2), Kheth_49 (B2), Kolhan_49 (B2), Lars_49 (B2), Laurie_48 (B2), Lephleur_49 (B2), Ligma_43 (DR), LilSmirk_49 (B2),

LittleMunchkin_45 (DR), LizLemon_49 (B2), MakoManhole_46 (DR), Mariokart_43 (DR), MasterPo_49 (B2), MossRose_46 (DR), NHagos_44 (DR), Opia_49 (B2), Phantasmagoria_49 (B2), PrinceCharming_49 (B2), Qyrzula_46 (B2), Rhinoforte_49 (B2), Rosebush_48 (B2), Sabella_48 (B2), Shatter_43 (DR), Sisko_43 (DR), TA17A_50 (B2), TPA2_56 (singleton), Tinciduntsolum_50 (B2), TraderJ_46 (DR), Tres_49 (B2), Vic9_00048 (B2), West99_49 (B2), Wooper_46 (DR), Yago84_43 (DR), Yeshua_46 (DR),

Start 39:
• Found in 356 of 536 (66.4%) of genes in pham
• Manual Annotations of this start: 3 of 460
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Causa_66 (AI), StAugustine_64 (AI), Trine_28 (CD),

Start 58:
• Found in 1 of 536 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 460
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DS6A_72 (singleton),

Start 60:
• Found in 12 of 536 (2.2%) of genes in pham
• Manual Annotations of this start: 11 of 460
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Abt2graduatex2_43 (BG), Asis_42 (BG), BabyGotBac_43 (BG), BayC_42 (BG), Maih_41 (BG), Mischief19_52 (BG), RainyPolka_43 (BG), Salete_42 (BG), TP1604_42 (BG), Xkcd426_45 (BG), YDN12_43 (BG),

Summary by clusters:

There are 18 clusters represented in this pham: singleton, BG, B10, AI, B8, B3, CD, B4, B5, B6, B7, B12, B1, B2, B11, DR, B9, B13,

Info for manual annotations of cluster AI:
•Start number 39 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B1:
•Start number 23 was manually annotated 280 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 23 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 23 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 23 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 23 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 30 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 27 was manually annotated 50 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 23 was manually annotated 26 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 23 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 23 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 23 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 23 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 23 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster BG:
•Start number 60 was manually annotated 11 times for cluster BG.

Info for manual annotations of cluster CD:
•Start number 25 was manually annotated 5 times for cluster CD.
•Start number 39 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:
•Start number 27 was manually annotated 2 times for cluster DR.
•Start number 29 was manually annotated 1 time for cluster DR.
•Start number 30 was manually annotated 18 times for cluster DR.

Gene Information:

Gene: 39HC_043 Start: 42090, Stop: 41461, Start Num: 23
Candidate Starts for 39HC_043:
(8, 42204), (Start: 23 @42090 has 332 MA's), (55, 41889), (56, 41886), (57, 41880), (62, 41856), (78, 41784),

Gene: 40BC_043 Start: 42090, Stop: 41461, Start Num: 23
Candidate Starts for 40BC_043:
(8, 42204), (Start: 23 @42090 has 332 MA's), (55, 41889), (56, 41886), (57, 41880), (62, 41856), (78, 41784),

Gene: ABU_51 Start: 43912, Stop: 43292, Start Num: 23
Candidate Starts for ABU_51:

(Start: 23 @43912 has 332 MA's), (Start: 39 @43816 has 3 MA's), (55, 43714), (56, 43711), (57, 43705), (62, 43681), (64, 43672), (73, 43639), (78, 43612), (107, 43480), (108, 43477), (117, 43417),

Gene: Abinghost_48 Start: 43205, Stop: 42660, Start Num: 27
Candidate Starts for Abinghost_48:
(Start: 27 @43205 has 52 MA's), (50, 43055), (75, 42968), (77, 42953), (80, 42941), (90, 42911), (100, 42890), (106, 42851), (108, 42845), (109, 42836), (114, 42809),

Gene: AbsoluteMadLad_49 Start: 43789, Stop: 43169, Start Num: 23
Candidate Starts for AbsoluteMadLad_49:
(Start: 23 @43789 has 332 MA's), (Start: 39 @43693 has 3 MA's), (55, 43591), (56, 43588), (57, 43582), (62, 43558), (64, 43549), (73, 43516), (78, 43489), (107, 43357), (108, 43354), (117, 43294),

Gene: Abt2graduatex2_43 Start: 34463, Stop: 34035, Start Num: 60
Candidate Starts for Abt2graduatex2_43:
(Start: 60 @34463 has 11 MA's), (85, 34361), (100, 34313), (107, 34271), (131, 34124), (136, 34094),

Gene: Acadian_50 Start: 44698, Stop: 44096, Start Num: 23
Candidate Starts for Acadian_50:
(Start: 23 @44698 has 332 MA's), (40, 44578), (56, 44470), (57, 44464), (62, 44440), (114, 44242), (117, 44218), (125, 44161),

Gene: Adriana_51 Start: 43910, Stop: 43290, Start Num: 23
Candidate Starts for Adriana_51:
(Start: 23 @43910 has 332 MA's), (Start: 39 @43814 has 3 MA's), (55, 43712), (56, 43709), (57, 43703), (62, 43679), (64, 43670), (73, 43637), (78, 43610), (107, 43478), (108, 43475), (117, 43415),

Gene: Aelin_49 Start: 43353, Stop: 42733, Start Num: 23
Candidate Starts for Aelin_49:
(Start: 23 @43353 has 332 MA's), (Start: 39 @43257 has 3 MA's), (55, 43155), (56, 43152), (57, 43146), (62, 43122), (64, 43113), (73, 43080), (78, 43053), (107, 42921), (108, 42918), (117, 42858),

Gene: Ahwei_44 Start: 43292, Stop: 42684, Start Num: 23
Candidate Starts for Ahwei_44:
(Start: 23 @43292 has 332 MA's), (Start: 39 @43202 has 3 MA's), (57, 43088), (62, 43064), (65, 43052), (77, 43001), (99, 42914), (103, 42890), (106, 42869), (107, 42866), (121, 42788),

Gene: Akoma_48 Start: 43216, Stop: 42671, Start Num: 27
Candidate Starts for Akoma_48:
(Start: 27 @43216 has 52 MA's), (45, 43087), (50, 43066), (75, 42979), (77, 42964), (80, 42952), (90, 42922), (100, 42901), (106, 42862), (108, 42856), (109, 42847), (114, 42820),

Gene: AksarBAT_44 Start: 37461, Stop: 36970, Start Num: 30
Candidate Starts for AksarBAT_44:
(Start: 30 @37461 has 55 MA's), (68, 37281), (73, 37269), (80, 37236), (95, 37203), (98, 37191), (99, 37188), (106, 37149), (114, 37107), (122, 37065), (129, 37002),

Gene: AlanGrant_47 Start: 44903, Stop: 44286, Start Num: 23
Candidate Starts for AlanGrant_47:
(Start: 23 @44903 has 332 MA's), (Start: 39 @44801 has 3 MA's), (40, 44792), (52, 44714), (56, 44693), (57, 44687), (62, 44663), (78, 44594), (85, 44570), (86, 44564), (87, 44558), (91, 44540), (101, 44507), (103, 44489), (107, 44465), (108, 44462), (112, 44444), (121, 44387),

Gene: Aleia_50 Start: 43346, Stop: 42726, Start Num: 23
Candidate Starts for Aleia_50:
(Start: 23 @43346 has 332 MA's), (Start: 39 @43250 has 3 MA's), (55, 43148), (56, 43145), (57, 43139), (62, 43115), (64, 43106), (73, 43073), (78, 43046), (107, 42914), (108, 42911), (117, 42851),

Gene: Allegro_49 Start: 43473, Stop: 42961, Start Num: 30
Candidate Starts for Allegro_49:
(22, 43563), (Start: 30 @43473 has 55 MA's), (80, 43245), (90, 43215), (95, 43212), (98, 43200), (100, 43194), (106, 43155), (108, 43149), (111, 43134), (129, 43002),

Gene: AltPhacts_50 Start: 43762, Stop: 43142, Start Num: 23
Candidate Starts for AltPhacts_50:
(Start: 23 @43762 has 332 MA's), (Start: 39 @43666 has 3 MA's), (42, 43639), (55, 43564), (56, 43561), (57, 43555), (62, 43531), (64, 43522), (73, 43489), (78, 43462), (89, 43420), (107, 43330), (108, 43327), (117, 43267),

Gene: Altwerkus_49 Start: 43468, Stop: 42848, Start Num: 23
Candidate Starts for Altwerkus_49:
(Start: 23 @43468 has 332 MA's), (Start: 39 @43372 has 3 MA's), (55, 43270), (56, 43267), (57, 43261), (62, 43237), (64, 43228), (73, 43195), (78, 43168), (107, 43036), (108, 43033), (117, 42973),

Gene: AnClar_44 Start: 39415, Stop: 38918, Start Num: 30
Candidate Starts for AnClar_44:
(Start: 30 @39415 has 55 MA's), (68, 39232), (73, 39220), (77, 39199), (80, 39187), (106, 39097), (108, 39091), (114, 39055), (116, 39034), (122, 39013),

Gene: AnarQue_46 Start: 38876, Stop: 38382, Start Num: 30
Candidate Starts for AnarQue_46:
(Start: 30 @38876 has 55 MA's), (49, 38777), (59, 38735), (68, 38696), (73, 38684), (77, 38663), (80, 38651), (90, 38615), (101, 38591), (106, 38555), (108, 38549), (117, 38486), (122, 38468),

Gene: Anderson_50 Start: 43767, Stop: 43147, Start Num: 23
Candidate Starts for Anderson_50:
(Start: 23 @43767 has 332 MA's), (Start: 39 @43671 has 3 MA's), (55, 43569), (56, 43566), (57, 43560), (62, 43536), (64, 43527), (73, 43494), (78, 43467), (107, 43335), (108, 43332), (117, 43272),

Gene: Andre_51 Start: 43904, Stop: 43284, Start Num: 23
Candidate Starts for Andre_51:
(Start: 23 @43904 has 332 MA's), (Start: 39 @43808 has 3 MA's), (55, 43706), (56, 43703), (57, 43697), (62, 43673), (64, 43664), (73, 43631), (78, 43604), (107, 43472), (108, 43469), (117, 43409),

Gene: AngelCake_50 Start: 43789, Stop: 43169, Start Num: 23
Candidate Starts for AngelCake_50:
(Start: 23 @43789 has 332 MA's), (Start: 39 @43693 has 3 MA's), (55, 43591), (56, 43588), (57, 43582), (62, 43558), (64, 43549), (73, 43516), (78, 43489), (107, 43357), (108, 43354), (117, 43294),

Gene: Antihero_44 Start: 43292, Stop: 42684, Start Num: 23
Candidate Starts for Antihero_44:
(Start: 23 @43292 has 332 MA's), (Start: 39 @43202 has 3 MA's), (57, 43088), (62, 43064), (65, 43052), (77, 43001), (99, 42914), (103, 42890), (106, 42869), (107, 42866), (121, 42788),

Gene: Antonia_49 Start: 43353, Stop: 42733, Start Num: 23
Candidate Starts for Antonia_49:

(Start: 23 @43353 has 332 MA's), (Start: 39 @43257 has 3 MA's), (55, 43155), (56, 43152), (57, 43146), (62, 43122), (64, 43113), (73, 43080), (78, 43053), (107, 42921), (108, 42918), (117, 42858),

Gene: Aonishiki_51 Start: 43810, Stop: 43190, Start Num: 23
Candidate Starts for Aonishiki_51:
(Start: 23 @43810 has 332 MA's), (Start: 39 @43714 has 3 MA's), (55, 43612), (56, 43609), (57, 43603), (62, 43579), (64, 43570), (73, 43537), (78, 43510), (107, 43378), (108, 43375), (117, 43315),

Gene: Apex_46 Start: 44536, Stop: 43922, Start Num: 23
Candidate Starts for Apex_46:
(Start: 23 @44536 has 332 MA's), (Start: 39 @44443 has 3 MA's), (57, 44329), (62, 44305), (65, 44293), (77, 44242), (99, 44155), (103, 44131), (106, 44110), (107, 44107), (120, 44032),

Gene: Apizium_50 Start: 43668, Stop: 43048, Start Num: 23
Candidate Starts for Apizium_50:
(Start: 23 @43668 has 332 MA's), (Start: 39 @43572 has 3 MA's), (55, 43470), (56, 43467), (57, 43461), (62, 43437), (64, 43428), (73, 43395), (78, 43368), (107, 43236), (108, 43233), (117, 43173),

Gene: Applejacks_29 Start: 22952, Stop: 22404, Start Num: 25
Candidate Starts for Applejacks_29:
(Start: 25 @22952 has 5 MA's), (34, 22901), (53, 22793), (83, 22682), (110, 22577), (115, 22550), (116, 22532), (117, 22529), (118, 22526), (119, 22520), (122, 22511),

Gene: Arbiter_48 Start: 43576, Stop: 43037, Start Num: 30
Candidate Starts for Arbiter_48:
(22, 43666), (Start: 30 @43576 has 55 MA's), (80, 43321), (90, 43291), (95, 43288), (98, 43276), (100, 43270), (106, 43231), (108, 43225), (111, 43210), (129, 43078), (134, 43057),

Gene: Ares_49 Start: 43545, Stop: 43021, Start Num: 30
Candidate Starts for Ares_49:
(22, 43635), (Start: 30 @43545 has 55 MA's), (80, 43305), (90, 43275), (95, 43272), (98, 43260), (100, 43254), (106, 43215), (108, 43209), (111, 43194), (129, 43062), (134, 43041),

Gene: Ashraf_50 Start: 43469, Stop: 42849, Start Num: 23
Candidate Starts for Ashraf_50:
(Start: 23 @43469 has 332 MA's), (Start: 39 @43373 has 3 MA's), (55, 43271), (56, 43268), (57, 43262), (62, 43238), (64, 43229), (73, 43196), (78, 43169), (107, 43037), (108, 43034), (117, 42974),

Gene: Asis_42 Start: 34223, Stop: 33801, Start Num: 60
Candidate Starts for Asis_42:
(Start: 60 @34223 has 11 MA's), (67, 34184), (74, 34166), (82, 34130), (96, 34088), (100, 34073), (107, 34031), (131, 33884),

Gene: Athena_49 Start: 43963, Stop: 43418, Start Num: 27
Candidate Starts for Athena_49:
(Start: 27 @43963 has 52 MA's), (45, 43834), (50, 43813), (75, 43726), (77, 43711), (80, 43699), (90, 43669), (100, 43648), (106, 43609), (108, 43603), (109, 43594), (114, 43567),

Gene: Audrey_48 Start: 43211, Stop: 42666, Start Num: 27
Candidate Starts for Audrey_48:
(Start: 27 @43211 has 52 MA's), (45, 43082), (50, 43061), (75, 42974), (77, 42959), (80, 42947), (90, 42917), (100, 42896), (106, 42857), (108, 42851), (109, 42842), (114, 42815),

Gene: Austelle_46 Start: 44986, Stop: 44372, Start Num: 23
Candidate Starts for Austelle_46:
(Start: 23 @44986 has 332 MA's), (Start: 39 @44893 has 3 MA's), (57, 44779), (62, 44755), (65, 44743), (77, 44692), (99, 44605), (103, 44581), (106, 44560), (107, 44557), (120, 44482),

Gene: Axumite_43 Start: 36579, Stop: 36085, Start Num: 30
Candidate Starts for Axumite_43:
(Start: 30 @36579 has 55 MA's), (80, 36354), (104, 36276), (106, 36264), (114, 36222), (122, 36180), (133, 36099),

Gene: BabyGotBac_43 Start: 34223, Stop: 33801, Start Num: 60
Candidate Starts for BabyGotBac_43:
(Start: 60 @34223 has 11 MA's), (67, 34184), (74, 34166), (82, 34130), (96, 34088), (100, 34073), (107, 34031), (131, 33884),

Gene: Badfish_51 Start: 43935, Stop: 43315, Start Num: 23
Candidate Starts for Badfish_51:
(Start: 23 @43935 has 332 MA's), (Start: 39 @43839 has 3 MA's), (55, 43737), (56, 43734), (57, 43728), (62, 43704), (64, 43695), (73, 43662), (78, 43635), (107, 43503), (108, 43500), (117, 43440),

Gene: Baee_49 Start: 44576, Stop: 43974, Start Num: 23
Candidate Starts for Baee_49:
(12, 44687), (Start: 23 @44576 has 332 MA's), (40, 44456), (56, 44348), (57, 44342), (62, 44318), (107, 44159), (114, 44120), (117, 44096), (123, 44045),

Gene: Baloo_48 Start: 43214, Stop: 42669, Start Num: 27
Candidate Starts for Baloo_48:
(Start: 27 @43214 has 52 MA's), (45, 43085), (50, 43064), (75, 42977), (77, 42962), (80, 42950), (90, 42920), (100, 42899), (106, 42860), (108, 42854), (109, 42845), (114, 42818),

Gene: Bananafish_49 Start: 43479, Stop: 42955, Start Num: 30
Candidate Starts for Bananafish_49:
(22, 43569), (Start: 30 @43479 has 55 MA's), (80, 43239), (90, 43209), (95, 43206), (98, 43194), (100, 43188), (106, 43149), (108, 43143), (111, 43128), (129, 42996), (134, 42975),

Gene: Banjo_49 Start: 43466, Stop: 42846, Start Num: 23
Candidate Starts for Banjo_49:
(Start: 23 @43466 has 332 MA's), (Start: 39 @43370 has 3 MA's), (55, 43268), (56, 43265), (57, 43259), (62, 43235), (64, 43226), (73, 43193), (78, 43166), (107, 43034), (108, 43031), (117, 42971),

Gene: Basato_51 Start: 44051, Stop: 43431, Start Num: 23
Candidate Starts for Basato_51:
(Start: 23 @44051 has 332 MA's), (Start: 39 @43955 has 3 MA's), (55, 43853), (56, 43850), (57, 43844), (62, 43820), (64, 43811), (73, 43778), (78, 43751), (107, 43619), (108, 43616), (117, 43556),

Gene: BatteryCK_49 Start: 43409, Stop: 42789, Start Num: 23
Candidate Starts for BatteryCK_49:
(Start: 23 @43409 has 332 MA's), (Start: 39 @43313 has 3 MA's), (55, 43211), (56, 43208), (57, 43202), (62, 43178), (64, 43169), (73, 43136), (78, 43109), (107, 42977), (108, 42974), (117, 42914),

Gene: BayC_42 Start: 34220, Stop: 33798, Start Num: 60
Candidate Starts for BayC_42:

(Start: 60 @34220 has 11 MA's), (67, 34181), (74, 34163), (82, 34127), (96, 34085), (100, 34070), (107, 34028), (131, 33881),

Gene: Beaglebox_49 Start: 43487, Stop: 42867, Start Num: 23
Candidate Starts for Beaglebox_49:
(Start: 23 @43487 has 332 MA's), (Start: 39 @43391 has 3 MA's), (55, 43289), (56, 43286), (57, 43280), (62, 43256), (64, 43247), (73, 43214), (78, 43187), (107, 43055), (108, 43052), (117, 42992),

Gene: Ben11_47 Start: 43034, Stop: 42489, Start Num: 27
Candidate Starts for Ben11_47:
(Start: 27 @43034 has 52 MA's), (50, 42884), (75, 42797), (77, 42782), (80, 42770), (90, 42740), (100, 42719), (106, 42680), (108, 42674), (109, 42665), (114, 42638),

Gene: Bernardo_49 Start: 43760, Stop: 43215, Start Num: 27
Candidate Starts for Bernardo_49:
(Start: 27 @43760 has 52 MA's), (45, 43631), (50, 43610), (75, 43523), (77, 43508), (80, 43496), (90, 43466), (100, 43445), (106, 43406), (108, 43400), (109, 43391), (114, 43364),

Gene: BiggityBass_43 Start: 38887, Stop: 38390, Start Num: 30
Candidate Starts for BiggityBass_43:
(3, 39208), (21, 39031), (Start: 30 @38887 has 55 MA's), (49, 38779), (68, 38704), (72, 38695), (73, 38692), (80, 38659), (102, 38593), (104, 38581), (106, 38569), (114, 38527), (116, 38506), (122, 38485),

Gene: BirdsNest_52 Start: 43048, Stop: 42431, Start Num: 23
Candidate Starts for BirdsNest_52:
(Start: 23 @43048 has 332 MA's), (47, 42847), (54, 42820), (62, 42778), (103, 42640), (107, 42616), (117, 42553), (123, 42502),

Gene: Bishoperium_49 Start: 43481, Stop: 42861, Start Num: 23
Candidate Starts for Bishoperium_49:
(Start: 23 @43481 has 332 MA's), (Start: 39 @43385 has 3 MA's), (55, 43283), (56, 43280), (57, 43274), (62, 43250), (64, 43241), (73, 43208), (78, 43181), (107, 43049), (108, 43046), (117, 42986),

Gene: BlackStallion_51 Start: 43941, Stop: 43321, Start Num: 23
Candidate Starts for BlackStallion_51:
(Start: 23 @43941 has 332 MA's), (Start: 39 @43845 has 3 MA's), (55, 43743), (56, 43740), (57, 43734), (62, 43710), (64, 43701), (73, 43668), (78, 43641), (107, 43509), (108, 43506), (117, 43446),

Gene: Blackpen_46 Start: 38294, Stop: 37800, Start Num: 30
Candidate Starts for Blackpen_46:
(Start: 30 @38294 has 55 MA's), (49, 38195), (59, 38153), (68, 38114), (73, 38102), (77, 38081), (80, 38069), (90, 38033), (101, 38009), (106, 37973), (108, 37967), (117, 37904), (122, 37886),

Gene: BlacksBerry_49 Start: 43502, Stop: 42882, Start Num: 23
Candidate Starts for BlacksBerry_49:
(Start: 23 @43502 has 332 MA's), (Start: 39 @43406 has 3 MA's), (55, 43304), (56, 43301), (57, 43295), (62, 43271), (64, 43262), (73, 43229), (78, 43202), (107, 43070), (108, 43067), (117, 43007),

Gene: Blocker23_49 Start: 43597, Stop: 43073, Start Num: 30
Candidate Starts for Blocker23_49:
(22, 43687), (Start: 30 @43597 has 55 MA's), (80, 43357), (90, 43327), (95, 43324), (98, 43312), (100, 43306), (106, 43267), (108, 43261), (129, 43114),

Gene: BlueHusk_50 Start: 43287, Stop: 42667, Start Num: 23
Candidate Starts for BlueHusk_50:
(Start: 23 @43287 has 332 MA's), (Start: 39 @43191 has 3 MA's), (55, 43089), (56, 43086), (57, 43080), (62, 43056), (64, 43047), (73, 43014), (78, 42987), (107, 42855), (108, 42852), (117, 42792),

Gene: Bluephacebaby_49 Start: 43484, Stop: 42864, Start Num: 23
Candidate Starts for Bluephacebaby_49:
(Start: 23 @43484 has 332 MA's), (Start: 39 @43388 has 3 MA's), (55, 43286), (56, 43283), (57, 43277), (62, 43253), (64, 43244), (73, 43211), (78, 43184), (107, 43052), (108, 43049), (117, 42989),

Gene: BobRoss2024_42 Start: 36607, Stop: 36095, Start Num: 30
Candidate Starts for BobRoss2024_42:
(Start: 30 @36607 has 55 MA's), (49, 36493), (65, 36439), (66, 36433), (77, 36388), (80, 36376), (81, 36373), (100, 36319), (104, 36292), (106, 36280), (114, 36238), (122, 36196), (129, 36133),

Gene: BobbyK_46 Start: 44328, Stop: 43717, Start Num: 23
Candidate Starts for BobbyK_46:
(Start: 23 @44328 has 332 MA's), (Start: 39 @44238 has 3 MA's), (57, 44124), (62, 44100), (65, 44088), (77, 44037), (99, 43950), (103, 43926), (106, 43905), (107, 43902), (120, 43827),

Gene: Boehler_50 Start: 43790, Stop: 43170, Start Num: 23
Candidate Starts for Boehler_50:
(Start: 23 @43790 has 332 MA's), (Start: 39 @43694 has 3 MA's), (55, 43592), (56, 43589), (57, 43583), (62, 43559), (64, 43550), (73, 43517), (78, 43490), (107, 43358), (108, 43355), (117, 43295),

Gene: BoogieWoogie_49 Start: 43471, Stop: 42851, Start Num: 23
Candidate Starts for BoogieWoogie_49:
(Start: 23 @43471 has 332 MA's), (Start: 39 @43375 has 3 MA's), (55, 43273), (56, 43270), (57, 43264), (62, 43240), (64, 43231), (73, 43198), (78, 43171), (107, 43039), (108, 43036), (117, 42976),

Gene: Boyle_49 Start: 43612, Stop: 43073, Start Num: 30
Candidate Starts for Boyle_49:
(22, 43702), (Start: 30 @43612 has 55 MA's), (80, 43357), (90, 43327), (95, 43324), (98, 43312), (100, 43306), (106, 43267), (108, 43261), (111, 43246), (129, 43114), (134, 43093),

Gene: Briakila_49 Start: 43982, Stop: 43437, Start Num: 27
Candidate Starts for Briakila_49:
(Start: 27 @43982 has 52 MA's), (50, 43832), (75, 43745), (77, 43730), (80, 43718), (90, 43688), (100, 43667), (106, 43628), (108, 43622), (109, 43613), (114, 43586),

Gene: Brilliant_50 Start: 43483, Stop: 42863, Start Num: 23
Candidate Starts for Brilliant_50:
(Start: 23 @43483 has 332 MA's), (Start: 39 @43387 has 3 MA's), (55, 43285), (56, 43282), (57, 43276), (62, 43252), (64, 43243), (73, 43210), (78, 43183), (107, 43051), (108, 43048), (117, 42988),

Gene: BrownCNA_47 Start: 44607, Stop: 43996, Start Num: 23
Candidate Starts for BrownCNA_47:
(Start: 23 @44607 has 332 MA's), (Start: 39 @44517 has 3 MA's), (57, 44403), (62, 44379), (65, 44367), (77, 44316), (99, 44229), (103, 44205), (106, 44184), (107, 44181), (120, 44106), (121, 44103),

Gene: Brownie5_49 Start: 43628, Stop: 43089, Start Num: 30

Candidate Starts for Brownie5_49:
(22, 43718), (Start: 30 @43628 has 55 MA's), (80, 43373), (90, 43343), (95, 43340), (98, 43328), (100, 43322), (106, 43283), (108, 43277), (111, 43262), (129, 43130),

Gene: Buckeye_50 Start: 43804, Stop: 43184, Start Num: 23
Candidate Starts for Buckeye_50:
(Start: 23 @43804 has 332 MA's), (Start: 39 @43708 has 3 MA's), (55, 43606), (56, 43603), (57, 43597), (62, 43573), (64, 43564), (73, 43531), (78, 43504), (107, 43372), (108, 43369), (117, 43309),

Gene: Burr_49 Start: 43478, Stop: 42858, Start Num: 23
Candidate Starts for Burr_49:
(Start: 23 @43478 has 332 MA's), (Start: 39 @43382 has 3 MA's), (55, 43280), (56, 43277), (57, 43271), (62, 43247), (64, 43238), (73, 43205), (78, 43178), (107, 43046), (108, 43043), (117, 42983),

Gene: CRB2_51 Start: 46714, Stop: 46073, Start Num: 23
Candidate Starts for CRB2_51:
(Start: 23 @46714 has 332 MA's), (54, 46504), (57, 46486), (62, 46462), (78, 46390), (87, 46354), (93, 46327), (103, 46282), (106, 46261), (117, 46195), (123, 46144),

Gene: CaiB_46 Start: 38862, Stop: 38368, Start Num: 30
Candidate Starts for CaiB_46:
(Start: 30 @38862 has 55 MA's), (49, 38763), (59, 38721), (68, 38682), (73, 38670), (77, 38649), (80, 38637), (90, 38601), (101, 38577), (106, 38541), (108, 38535), (117, 38472), (122, 38454),

Gene: Calamitous_49 Start: 43478, Stop: 42960, Start Num: 30
Candidate Starts for Calamitous_49:
(22, 43568), (Start: 30 @43478 has 55 MA's), (80, 43244), (90, 43214), (95, 43211), (98, 43199), (100, 43193), (106, 43154), (108, 43148), (111, 43133), (129, 43001),

Gene: CamL_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for CamL_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: CampRoach_51 Start: 43907, Stop: 43287, Start Num: 23
Candidate Starts for CampRoach_51:
(Start: 23 @43907 has 332 MA's), (Start: 39 @43811 has 3 MA's), (55, 43709), (56, 43706), (57, 43700), (62, 43676), (64, 43667), (73, 43634), (78, 43607), (107, 43475), (108, 43472), (117, 43412),

Gene: Cannibal_50 Start: 43756, Stop: 43136, Start Num: 23
Candidate Starts for Cannibal_50:
(Start: 23 @43756 has 332 MA's), (Start: 39 @43660 has 3 MA's), (55, 43558), (56, 43555), (57, 43549), (62, 43525), (64, 43516), (73, 43483), (78, 43456), (107, 43324), (108, 43321), (117, 43261),

Gene: Carthage_48 Start: 42703, Stop: 42083, Start Num: 23
Candidate Starts for Carthage_48:
(Start: 23 @42703 has 332 MA's), (Start: 39 @42607 has 3 MA's), (55, 42505), (56, 42502), (57, 42496), (62, 42472), (64, 42463), (73, 42430), (78, 42403), (107, 42271), (108, 42268), (117, 42208),

Gene: Casbah_47 Start: 43064, Stop: 42519, Start Num: 27
Candidate Starts for Casbah_47:
(Start: 27 @43064 has 52 MA's), (50, 42914), (75, 42827), (77, 42812), (80, 42800), (90, 42770), (100, 42749), (106, 42710), (108, 42704), (109, 42695), (114, 42668),

Gene: Caspiboi_49 Start: 43482, Stop: 42862, Start Num: 23
Candidate Starts for Caspiboi_49:
(Start: 23 @43482 has 332 MA's), (Start: 39 @43386 has 3 MA's), (55, 43284), (56, 43281), (57, 43275), (62, 43251), (64, 43242), (73, 43209), (78, 43182), (107, 43050), (108, 43047), (117, 42987),

Gene: Causa_66 Start: 51649, Stop: 51119, Start Num: 39
Candidate Starts for Causa_66:
(Start: 39 @51649 has 3 MA's), (57, 51529), (70, 51472), (79, 51436), (86, 51409), (87, 51406), (94, 51376), (95, 51373), (106, 51316), (129, 51169),

Gene: ChaChing_48 Start: 43227, Stop: 42682, Start Num: 27
Candidate Starts for ChaChing_48:
(Start: 27 @43227 has 52 MA's), (50, 43077), (75, 42990), (77, 42975), (80, 42963), (90, 42933), (100, 42912), (106, 42873), (108, 42867), (109, 42858), (114, 42831),

Gene: Chaelin_50 Start: 43479, Stop: 42859, Start Num: 23
Candidate Starts for Chaelin_50:
(Start: 23 @43479 has 332 MA's), (Start: 39 @43383 has 3 MA's), (55, 43281), (56, 43278), (57, 43272), (62, 43248), (64, 43239), (73, 43206), (78, 43179), (107, 43047), (108, 43044), (117, 42984),

Gene: Chah_52 Start: 43934, Stop: 43314, Start Num: 23
Candidate Starts for Chah_52:
(Start: 23 @43934 has 332 MA's), (Start: 39 @43838 has 3 MA's), (55, 43736), (56, 43733), (57, 43727), (62, 43703), (64, 43694), (73, 43661), (78, 43634), (107, 43502), (108, 43499), (117, 43439),

Gene: Chalmers_48 Start: 44019, Stop: 43474, Start Num: 27
Candidate Starts for Chalmers_48:
(Start: 27 @44019 has 52 MA's), (45, 43890), (50, 43869), (75, 43782), (77, 43767), (80, 43755), (90, 43725), (100, 43704), (106, 43665), (108, 43659), (109, 43650), (114, 43623),

Gene: Chandler_48 Start: 43995, Stop: 43450, Start Num: 27
Candidate Starts for Chandler_48:
(Start: 27 @43995 has 52 MA's), (45, 43866), (50, 43845), (75, 43758), (77, 43743), (80, 43731), (90, 43701), (100, 43680), (106, 43641), (108, 43635), (109, 43626), (114, 43599),

Gene: Charles1_50 Start: 43764, Stop: 43144, Start Num: 23
Candidate Starts for Charles1_50:
(Start: 23 @43764 has 332 MA's), (Start: 39 @43668 has 3 MA's), (55, 43566), (56, 43563), (57, 43557), (62, 43533), (64, 43524), (73, 43491), (78, 43464), (107, 43332), (108, 43329), (117, 43269),

Gene: CharlieGBrown_49 Start: 43354, Stop: 42734, Start Num: 23
Candidate Starts for CharlieGBrown_49:
(Start: 23 @43354 has 332 MA's), (Start: 39 @43258 has 3 MA's), (55, 43156), (56, 43153), (57, 43147), (62, 43123), (64, 43114), (73, 43081), (78, 43054), (107, 42922), (108, 42919), (117, 42859),

Gene: CharlottesWeb_43 Start: 36404, Stop: 35910, Start Num: 30
Candidate Starts for CharlottesWeb_43:
(Start: 30 @36404 has 55 MA's), (49, 36299), (68, 36224), (73, 36212), (77, 36191), (80, 36179), (95, 36146), (101, 36125), (104, 36101), (106, 36089), (108, 36083), (114, 36047), (116, 36026), (122, 36005), (133, 35924),

Gene: CheetO_50 Start: 43796, Stop: 43176, Start Num: 23

Candidate Starts for CheetO_50:
(Start: 23 @43796 has 332 MA's), (Start: 39 @43700 has 3 MA's), (55, 43598), (56, 43595), (57, 43589), (62, 43565), (64, 43556), (73, 43523), (78, 43496), (107, 43364), (108, 43361), (117, 43301),

Gene: Chentzyk_48 Start: 43576, Stop: 43031, Start Num: 27
Candidate Starts for Chentzyk_48:
(Start: 27 @43576 has 52 MA's), (50, 43426), (75, 43339), (77, 43324), (80, 43312), (90, 43282), (100, 43261), (106, 43222), (108, 43216), (109, 43207), (114, 43180),

Gene: Cher_49 Start: 43501, Stop: 42881, Start Num: 23
Candidate Starts for Cher_49:
(Start: 23 @43501 has 332 MA's), (Start: 39 @43405 has 3 MA's), (55, 43303), (56, 43300), (57, 43294), (62, 43270), (64, 43261), (73, 43228), (78, 43201), (107, 43069), (108, 43066), (117, 43006),

Gene: Childish_49 Start: 43504, Stop: 42884, Start Num: 23
Candidate Starts for Childish_49:
(Start: 23 @43504 has 332 MA's), (Start: 39 @43408 has 3 MA's), (55, 43306), (56, 43303), (57, 43297), (62, 43273), (64, 43264), (73, 43231), (78, 43204), (107, 43072), (108, 43069), (117, 43009),

Gene: Chipette_51 Start: 43994, Stop: 43374, Start Num: 23
Candidate Starts for Chipette_51:
(Start: 23 @43994 has 332 MA's), (Start: 39 @43898 has 3 MA's), (55, 43796), (56, 43793), (57, 43787), (62, 43763), (64, 43754), (73, 43721), (78, 43694), (107, 43562), (108, 43559), (117, 43499),

Gene: Chorkpop_50 Start: 43512, Stop: 42892, Start Num: 23
Candidate Starts for Chorkpop_50:
(Start: 23 @43512 has 332 MA's), (Start: 39 @43416 has 3 MA's), (55, 43314), (56, 43311), (57, 43305), (62, 43281), (64, 43272), (73, 43239), (78, 43212), (107, 43080), (108, 43077), (117, 43017),

Gene: ChrisnMich_45 Start: 43294, Stop: 42686, Start Num: 23
Candidate Starts for ChrisnMich_45:
(Start: 23 @43294 has 332 MA's), (Start: 39 @43204 has 3 MA's), (57, 43090), (62, 43066), (65, 43054), (77, 43003), (103, 42892), (106, 42871), (107, 42868), (121, 42790),

Gene: Chuni_49 Start: 43798, Stop: 43178, Start Num: 23
Candidate Starts for Chuni_49:
(Start: 23 @43798 has 332 MA's), (Start: 39 @43702 has 3 MA's), (55, 43600), (56, 43597), (57, 43591), (62, 43567), (64, 43558), (73, 43525), (78, 43498), (107, 43366), (108, 43363), (117, 43303),

Gene: Chunky_50 Start: 43800, Stop: 43180, Start Num: 23
Candidate Starts for Chunky_50:
(Start: 23 @43800 has 332 MA's), (Start: 39 @43704 has 3 MA's), (42, 43677), (55, 43602), (56, 43599), (57, 43593), (62, 43569), (64, 43560), (73, 43527), (78, 43500), (89, 43458), (107, 43368), (108, 43365), (117, 43305),

Gene: Chute_49 Start: 43828, Stop: 43208, Start Num: 23
Candidate Starts for Chute_49:
(Start: 23 @43828 has 332 MA's), (Start: 39 @43732 has 3 MA's), (55, 43630), (56, 43627), (57, 43621), (62, 43597), (64, 43588), (73, 43555), (78, 43528), (107, 43396), (108, 43393), (117, 43333),

Gene: CloverMinnie_46 Start: 38802, Stop: 38308, Start Num: 30
Candidate Starts for CloverMinnie_46:

(Start: 30 @38802 has 55 MA's), (49, 38703), (59, 38661), (68, 38622), (73, 38610), (77, 38589), (80, 38577), (90, 38541), (101, 38517), (106, 38481), (108, 38475), (117, 38412), (122, 38394),

Gene: Cobra_50 Start: 43785, Stop: 43165, Start Num: 23
Candidate Starts for Cobra_50:
(Start: 23 @43785 has 332 MA's), (Start: 39 @43689 has 3 MA's), (55, 43587), (56, 43584), (57, 43578), (62, 43554), (64, 43545), (73, 43512), (78, 43485), (107, 43353), (108, 43350), (117, 43290),

Gene: Coffee_49 Start: 43587, Stop: 43063, Start Num: 30
Candidate Starts for Coffee_49:
(22, 43677), (Start: 30 @43587 has 55 MA's), (80, 43347), (90, 43317), (95, 43314), (98, 43302), (100, 43296), (106, 43257), (108, 43251), (111, 43236), (129, 43104),

Gene: Colbert_50 Start: 43852, Stop: 43232, Start Num: 23
Candidate Starts for Colbert_50:
(Start: 23 @43852 has 332 MA's), (Start: 39 @43756 has 3 MA's), (55, 43654), (56, 43651), (57, 43645), (62, 43621), (64, 43612), (73, 43579), (78, 43552), (107, 43420), (108, 43417), (117, 43357),

Gene: Coldpizza_45 Start: 40387, Stop: 39884, Start Num: 27
Candidate Starts for Coldpizza_45:
(Start: 27 @40387 has 52 MA's), (46, 40282), (80, 40156), (90, 40129), (99, 40111), (106, 40069), (109, 40054), (115, 40024), (122, 39985), (129, 39922),

Gene: Coletti_50 Start: 43828, Stop: 43208, Start Num: 23
Candidate Starts for Coletti_50:
(Start: 23 @43828 has 332 MA's), (Start: 39 @43732 has 3 MA's), (55, 43630), (56, 43627), (57, 43621), (62, 43597), (64, 43588), (73, 43555), (78, 43528), (107, 43396), (108, 43393), (117, 43333),

Gene: Compostia_49 Start: 43643, Stop: 43098, Start Num: 27
Candidate Starts for Compostia_49:
(Start: 27 @43643 has 52 MA's), (45, 43514), (50, 43493), (75, 43406), (77, 43391), (80, 43379), (90, 43349), (100, 43328), (106, 43289), (108, 43283), (109, 43274), (114, 43247),

Gene: Cooper_46 Start: 43502, Stop: 42888, Start Num: 23
Candidate Starts for Cooper_46:
(Start: 23 @43502 has 332 MA's), (Start: 39 @43409 has 3 MA's), (57, 43295), (62, 43271), (78, 43202), (103, 43097), (106, 43076), (107, 43073), (121, 42995),

Gene: Cornbread_49 Start: 43501, Stop: 42881, Start Num: 23
Candidate Starts for Cornbread_49:
(Start: 23 @43501 has 332 MA's), (Start: 39 @43405 has 3 MA's), (55, 43303), (56, 43300), (57, 43294), (62, 43270), (64, 43261), (73, 43228), (78, 43201), (107, 43069), (108, 43066), (117, 43006),

Gene: Cornobble_49 Start: 43342, Stop: 42722, Start Num: 23
Candidate Starts for Cornobble_49:
(Start: 23 @43342 has 332 MA's), (Start: 39 @43246 has 3 MA's), (55, 43144), (56, 43141), (57, 43135), (62, 43111), (64, 43102), (73, 43069), (78, 43042), (107, 42910), (108, 42907), (117, 42847),

Gene: Corofin_48 Start: 43238, Stop: 42693, Start Num: 27
Candidate Starts for Corofin_48:
(Start: 27 @43238 has 52 MA's), (45, 43109), (50, 43088), (75, 43001), (77, 42986), (80, 42974), (90, 42944), (100, 42923), (106, 42884), (108, 42878), (109, 42869), (114, 42842),

Gene: Cosmolli16_49 Start: 43492, Stop: 42872, Start Num: 23
Candidate Starts for Cosmolli16_49:
(Start: 23 @43492 has 332 MA's), (Start: 39 @43396 has 3 MA's), (55, 43294), (56, 43291), (57, 43285), (62, 43261), (64, 43252), (73, 43219), (78, 43192), (107, 43060), (108, 43057), (117, 42997),

Gene: Craff_51 Start: 43920, Stop: 43300, Start Num: 23
Candidate Starts for Craff_51:
(Start: 23 @43920 has 332 MA's), (Start: 39 @43824 has 3 MA's), (55, 43722), (56, 43719), (57, 43713), (62, 43689), (64, 43680), (73, 43647), (78, 43620), (107, 43488), (108, 43485), (117, 43425),

Gene: Crownjwl_50 Start: 43561, Stop: 42941, Start Num: 23
Candidate Starts for Crownjwl_50:
(Start: 23 @43561 has 332 MA's), (Start: 39 @43465 has 3 MA's), (42, 43438), (55, 43363), (56, 43360), (57, 43354), (62, 43330), (64, 43321), (73, 43288), (78, 43261), (89, 43219), (107, 43129), (108, 43126), (117, 43066),

Gene: DS6A_72 Start: 46893, Stop: 47366, Start Num: 58
Candidate Starts for DS6A_72:
(51, 46860), (Start: 58 @46893 has 1 MA's), (73, 46950), (77, 46971), (98, 47040), (100, 47046), (110, 47103), (113, 47118), (137, 47301),

Gene: DaddyDaniels_50 Start: 43473, Stop: 42853, Start Num: 23
Candidate Starts for DaddyDaniels_50:
(Start: 23 @43473 has 332 MA's), (Start: 39 @43377 has 3 MA's), (55, 43275), (56, 43272), (57, 43266), (62, 43242), (64, 43233), (73, 43200), (78, 43173), (89, 43131), (107, 43041), (108, 43038), (117, 42978),

Gene: Daffy_50 Start: 43498, Stop: 42878, Start Num: 23
Candidate Starts for Daffy_50:
(Start: 23 @43498 has 332 MA's), (Start: 39 @43402 has 3 MA's), (55, 43300), (56, 43297), (57, 43291), (62, 43267), (64, 43258), (73, 43225), (78, 43198), (107, 43066), (108, 43063), (117, 43003),

Gene: Daisy_48 Start: 43239, Stop: 42694, Start Num: 27
Candidate Starts for Daisy_48:
(Start: 27 @43239 has 52 MA's), (50, 43089), (75, 43002), (77, 42987), (80, 42975), (90, 42945), (100, 42924), (106, 42885), (108, 42879), (109, 42870), (114, 42843),

Gene: Daka_51 Start: 43777, Stop: 43157, Start Num: 23
Candidate Starts for Daka_51:
(Start: 23 @43777 has 332 MA's), (Start: 39 @43681 has 3 MA's), (55, 43579), (56, 43576), (57, 43570), (62, 43546), (64, 43537), (73, 43504), (78, 43477), (107, 43345), (108, 43342), (117, 43282),

Gene: Dati_50 Start: 43501, Stop: 42881, Start Num: 23
Candidate Starts for Dati_50:
(Start: 23 @43501 has 332 MA's), (Start: 39 @43405 has 3 MA's), (55, 43303), (56, 43300), (57, 43294), (62, 43270), (64, 43261), (73, 43228), (78, 43201), (107, 43069), (108, 43066), (117, 43006),

Gene: Deenasa_48 Start: 43974, Stop: 43429, Start Num: 27
Candidate Starts for Deenasa_48:
(4, 44259), (Start: 27 @43974 has 52 MA's), (50, 43824), (75, 43737), (77, 43722), (80, 43710), (90, 43680), (100, 43659), (106, 43620), (108, 43614), (109, 43605), (114, 43578),

Gene: DelRivs_49 Start: 43505, Stop: 42885, Start Num: 23

Candidate Starts for DelRivs_49:
(Start: 23 @43505 has 332 MA's), (Start: 39 @43409 has 3 MA's), (55, 43307), (56, 43304), (57, 43298), (62, 43274), (64, 43265), (73, 43232), (78, 43205), (107, 43073), (108, 43070), (117, 43010),

Gene: Derpp_49 Start: 43343, Stop: 42723, Start Num: 23
Candidate Starts for Derpp_49:
(Start: 23 @43343 has 332 MA's), (Start: 39 @43247 has 3 MA's), (55, 43145), (56, 43142), (57, 43136), (62, 43112), (64, 43103), (73, 43070), (78, 43043), (89, 43001), (107, 42911), (108, 42908), (117, 42848),

Gene: Devonte_48 Start: 43203, Stop: 42658, Start Num: 27
Candidate Starts for Devonte_48:
(Start: 27 @43203 has 52 MA's), (45, 43074), (50, 43053), (75, 42966), (77, 42951), (80, 42939), (90, 42909), (100, 42888), (106, 42849), (108, 42843), (109, 42834), (114, 42807),

Gene: Dice_49 Start: 43469, Stop: 42849, Start Num: 23
Candidate Starts for Dice_49:
(Start: 23 @43469 has 332 MA's), (Start: 39 @43373 has 3 MA's), (55, 43271), (56, 43268), (57, 43262), (62, 43238), (64, 43229), (73, 43196), (78, 43169), (107, 43037), (108, 43034), (117, 42974),

Gene: DigitDog_49 Start: 44414, Stop: 43812, Start Num: 23
Candidate Starts for DigitDog_49:
(Start: 23 @44414 has 332 MA's), (40, 44294), (56, 44186), (57, 44180), (62, 44156), (103, 44021), (106, 44000), (114, 43958), (117, 43934), (125, 43877),

Gene: Dingo_50 Start: 43768, Stop: 43148, Start Num: 23
Candidate Starts for Dingo_50:
(Start: 23 @43768 has 332 MA's), (Start: 39 @43672 has 3 MA's), (55, 43570), (56, 43567), (57, 43561), (62, 43537), (64, 43528), (73, 43495), (78, 43468), (89, 43426), (107, 43336), (108, 43333), (117, 43273),

Gene: Dione_49 Start: 43477, Stop: 42857, Start Num: 23
Candidate Starts for Dione_49:
(Start: 23 @43477 has 332 MA's), (Start: 39 @43381 has 3 MA's), (55, 43279), (56, 43276), (57, 43270), (62, 43246), (64, 43237), (73, 43204), (78, 43177), (107, 43045), (108, 43042), (117, 42982),

Gene: DirtJuice_50 Start: 43767, Stop: 43147, Start Num: 23
Candidate Starts for DirtJuice_50:
(Start: 23 @43767 has 332 MA's), (Start: 39 @43671 has 3 MA's), (55, 43569), (56, 43566), (57, 43560), (62, 43536), (64, 43527), (73, 43494), (78, 43467), (107, 43335), (108, 43332), (117, 43272),

Gene: Doddsville_50 Start: 43497, Stop: 42877, Start Num: 23
Candidate Starts for Doddsville_50:
(Start: 23 @43497 has 332 MA's), (Start: 39 @43401 has 3 MA's), (55, 43299), (56, 43296), (57, 43290), (62, 43266), (64, 43257), (73, 43224), (78, 43197), (89, 43155), (107, 43065), (108, 43062), (117, 43002),

Gene: DoesntMatter_49 Start: 43770, Stop: 43150, Start Num: 23
Candidate Starts for DoesntMatter_49:
(Start: 23 @43770 has 332 MA's), (Start: 39 @43674 has 3 MA's), (55, 43572), (56, 43569), (57, 43563), (62, 43539), (64, 43530), (73, 43497), (78, 43470), (107, 43338), (108, 43335), (117, 43275),

Gene: DolOn_53 Start: 44145, Stop: 43525, Start Num: 23

Candidate Starts for DolOn_53:
(Start: 23 @44145 has 332 MA's), (Start: 39 @44049 has 3 MA's), (55, 43947), (56, 43944), (57, 43938), (62, 43914), (64, 43905), (73, 43872), (78, 43845), (107, 43713), (108, 43710), (117, 43650),

Gene: DonSanchon_49 Start: 43480, Stop: 42860, Start Num: 23
Candidate Starts for DonSanchon_49:
(Start: 23 @43480 has 332 MA's), (Start: 39 @43384 has 3 MA's), (55, 43282), (56, 43279), (57, 43273), (62, 43249), (64, 43240), (73, 43207), (78, 43180), (107, 43048), (108, 43045), (117, 42985),

Gene: Donny_50 Start: 44705, Stop: 44103, Start Num: 23
Candidate Starts for Donny_50:
(12, 44816), (Start: 23 @44705 has 332 MA's), (40, 44585), (56, 44477), (57, 44471), (62, 44447), (114, 44249), (117, 44225),

Gene: DuchessDung_49 Start: 42769, Stop: 42149, Start Num: 23
Candidate Starts for DuchessDung_49:
(Start: 23 @42769 has 332 MA's), (Start: 39 @42673 has 3 MA's), (55, 42571), (56, 42568), (57, 42562), (62, 42538), (64, 42529), (73, 42496), (78, 42469), (89, 42427), (107, 42337), (108, 42334), (117, 42274),

Gene: Duggie_49 Start: 43499, Stop: 42879, Start Num: 23
Candidate Starts for Duggie_49:
(Start: 23 @43499 has 332 MA's), (Start: 39 @43403 has 3 MA's), (55, 43301), (56, 43298), (57, 43292), (62, 43268), (64, 43259), (73, 43226), (78, 43199), (89, 43157), (107, 43067), (108, 43064), (117, 43004),

Gene: Durga_51 Start: 43935, Stop: 43315, Start Num: 23
Candidate Starts for Durga_51:
(Start: 23 @43935 has 332 MA's), (Start: 39 @43839 has 3 MA's), (55, 43737), (56, 43734), (57, 43728), (62, 43704), (64, 43695), (73, 43662), (78, 43635), (107, 43503), (108, 43500), (117, 43440),

Gene: Eaglehorse_49 Start: 43513, Stop: 42989, Start Num: 30
Candidate Starts for Eaglehorse_49:
(22, 43603), (Start: 30 @43513 has 55 MA's), (80, 43273), (90, 43243), (95, 43240), (98, 43228), (100, 43222), (106, 43183), (108, 43177), (111, 43162), (129, 43030), (134, 43009),

Gene: EastView9101_48 Start: 44355, Stop: 43753, Start Num: 23
Candidate Starts for EastView9101_48:
(12, 44466), (Start: 23 @44355 has 332 MA's), (40, 44235), (56, 44127), (57, 44121), (62, 44097), (114, 43899), (117, 43875),

Gene: ElvisPhasley_51 Start: 43957, Stop: 43337, Start Num: 23
Candidate Starts for ElvisPhasley_51:
(Start: 23 @43957 has 332 MA's), (Start: 39 @43861 has 3 MA's), (55, 43759), (56, 43756), (57, 43750), (62, 43726), (64, 43717), (73, 43684), (78, 43657), (107, 43525), (108, 43522), (117, 43462),

Gene: Emiris_51 Start: 43903, Stop: 43283, Start Num: 23
Candidate Starts for Emiris_51:
(Start: 23 @43903 has 332 MA's), (Start: 39 @43807 has 3 MA's), (55, 43705), (56, 43702), (57, 43696), (62, 43672), (64, 43663), (73, 43630), (78, 43603), (107, 43471), (108, 43468), (117, 43408),

Gene: EmpTee_50 Start: 43783, Stop: 43163, Start Num: 23
Candidate Starts for EmpTee_50:

(Start: 23 @43783 has 332 MA's), (Start: 39 @43687 has 3 MA's), (42, 43660), (55, 43585), (56, 43582), (57, 43576), (62, 43552), (64, 43543), (73, 43510), (78, 43483), (89, 43441), (107, 43351), (108, 43348), (117, 43288),

Gene: Epah_44 Start: 43292, Stop: 42684, Start Num: 23
Candidate Starts for Epah_44:
(Start: 23 @43292 has 332 MA's), (Start: 39 @43202 has 3 MA's), (57, 43088), (62, 43064), (65, 43052), (77, 43001), (99, 42914), (103, 42890), (106, 42869), (107, 42866), (121, 42788),

Gene: Eremos_50 Start: 43776, Stop: 43156, Start Num: 23
Candidate Starts for Eremos_50:
(Start: 23 @43776 has 332 MA's), (Start: 39 @43680 has 3 MA's), (55, 43578), (56, 43575), (57, 43569), (62, 43545), (64, 43536), (73, 43503), (78, 43476), (107, 43344), (108, 43341), (117, 43281),

Gene: Etaye_50 Start: 43770, Stop: 43150, Start Num: 23
Candidate Starts for Etaye_50:
(Start: 23 @43770 has 332 MA's), (Start: 39 @43674 has 3 MA's), (55, 43572), (56, 43569), (57, 43563), (62, 43539), (64, 43530), (73, 43497), (78, 43470), (107, 43338), (108, 43335), (117, 43275),

Gene: Eugenia_50 Start: 43780, Stop: 43160, Start Num: 23
Candidate Starts for Eugenia_50:
(Start: 23 @43780 has 332 MA's), (Start: 39 @43684 has 3 MA's), (55, 43582), (56, 43579), (57, 43573), (62, 43549), (64, 43540), (73, 43507), (78, 43480), (107, 43348), (108, 43345), (117, 43285),

Gene: Evaa_43 Start: 37468, Stop: 36944, Start Num: 27
Candidate Starts for Evaa_43:
(Start: 27 @37468 has 52 MA's), (49, 37330), (80, 37213), (95, 37183), (98, 37171), (99, 37168), (108, 37120), (109, 37111), (115, 37081), (122, 37042), (129, 36979),

Gene: Fanaw_44 Start: 43988, Stop: 43377, Start Num: 23
Candidate Starts for Fanaw_44:
(Start: 23 @43988 has 332 MA's), (Start: 39 @43898 has 3 MA's), (57, 43784), (62, 43760), (65, 43748), (77, 43697), (99, 43610), (103, 43586), (106, 43565), (107, 43562), (120, 43487),

Gene: Fang_51 Start: 43928, Stop: 43308, Start Num: 23
Candidate Starts for Fang_51:
(Start: 23 @43928 has 332 MA's), (Start: 39 @43832 has 3 MA's), (55, 43730), (56, 43727), (57, 43721), (62, 43697), (64, 43688), (73, 43655), (78, 43628), (107, 43496), (108, 43493), (117, 43433),

Gene: Faze9_48 Start: 43607, Stop: 43083, Start Num: 30
Candidate Starts for Faze9_48:
(22, 43697), (Start: 30 @43607 has 55 MA's), (80, 43367), (90, 43337), (95, 43334), (98, 43322), (100, 43316), (106, 43277), (108, 43271), (111, 43256), (129, 43124), (134, 43103),

Gene: FelixTres_46 Start: 38865, Stop: 38371, Start Num: 30
Candidate Starts for FelixTres_46:
(Start: 30 @38865 has 55 MA's), (49, 38766), (59, 38724), (68, 38685), (73, 38673), (77, 38652), (80, 38640), (90, 38604), (101, 38580), (106, 38544), (108, 38538), (117, 38475), (122, 38457),

Gene: Flake_52 Start: 43835, Stop: 43215, Start Num: 23
Candidate Starts for Flake_52:
(Start: 23 @43835 has 332 MA's), (Start: 39 @43739 has 3 MA's), (55, 43637), (56, 43634), (57, 43628), (62, 43604), (64, 43595), (73, 43562), (78, 43535), (107, 43403), (108, 43400), (117, 43340),

Gene: FleetyMac_51 Start: 43788, Stop: 43168, Start Num: 23
Candidate Starts for FleetyMac_51:
(Start: 23 @43788 has 332 MA's), (Start: 39 @43692 has 3 MA's), (55, 43590), (56, 43587), (57, 43581), (62, 43557), (64, 43548), (73, 43515), (78, 43488), (107, 43356), (108, 43353), (117, 43293),

Gene: FluffyNinja_51 Start: 43942, Stop: 43322, Start Num: 23
Candidate Starts for FluffyNinja_51:
(Start: 23 @43942 has 332 MA's), (Start: 39 @43846 has 3 MA's), (55, 43744), (56, 43741), (57, 43735), (62, 43711), (64, 43702), (73, 43669), (78, 43642), (107, 43510), (108, 43507), (117, 43447),

Gene: ForDig_43 Start: 42075, Stop: 41440, Start Num: 23
Candidate Starts for ForDig_43:
(Start: 23 @42075 has 332 MA's), (55, 41868), (57, 41859), (62, 41835), (78, 41763),

Gene: Fortunato_46 Start: 44349, Stop: 43735, Start Num: 23
Candidate Starts for Fortunato_46:
(Start: 23 @44349 has 332 MA's), (Start: 39 @44256 has 3 MA's), (57, 44142), (62, 44118), (65, 44106), (77, 44055), (99, 43968), (103, 43944), (106, 43923), (107, 43920), (120, 43845),

Gene: Fozzie_49 Start: 43805, Stop: 43185, Start Num: 23
Candidate Starts for Fozzie_49:
(Start: 23 @43805 has 332 MA's), (Start: 39 @43709 has 3 MA's), (55, 43607), (56, 43604), (57, 43598), (62, 43574), (64, 43565), (73, 43532), (78, 43505), (107, 43373), (108, 43370), (117, 43310),

Gene: Frankicide_50 Start: 43807, Stop: 43187, Start Num: 23
Candidate Starts for Frankicide_50:
(Start: 23 @43807 has 332 MA's), (Start: 39 @43711 has 3 MA's), (55, 43609), (56, 43606), (57, 43600), (62, 43576), (64, 43567), (73, 43534), (78, 43507), (107, 43375), (108, 43372), (117, 43312),

Gene: Frederick_46 Start: 44322, Stop: 43711, Start Num: 23
Candidate Starts for Frederick_46:
(Start: 23 @44322 has 332 MA's), (Start: 39 @44232 has 3 MA's), (57, 44118), (62, 44094), (65, 44082), (77, 44031), (99, 43944), (103, 43920), (106, 43899), (107, 43896), (120, 43821),

Gene: FremontTroll_50 Start: 43543, Stop: 42923, Start Num: 23
Candidate Starts for FremontTroll_50:
(Start: 23 @43543 has 332 MA's), (Start: 39 @43447 has 3 MA's), (55, 43345), (56, 43342), (57, 43336), (62, 43312), (64, 43303), (73, 43270), (78, 43243), (107, 43111), (108, 43108), (117, 43048),

Gene: FrenchFry_49 Start: 43586, Stop: 43077, Start Num: 30
Candidate Starts for FrenchFry_49:
(22, 43676), (Start: 30 @43586 has 55 MA's), (80, 43361), (90, 43331), (95, 43328), (98, 43316), (100, 43310), (106, 43271), (108, 43265), (111, 43250), (129, 43118), (134, 43097),

Gene: Fresco_43 Start: 36579, Stop: 36085, Start Num: 30
Candidate Starts for Fresco_43:
(Start: 30 @36579 has 55 MA's), (80, 36354), (104, 36276), (106, 36264), (114, 36222), (122, 36180), (133, 36099),

Gene: Freya_49 Start: 43468, Stop: 42848, Start Num: 23
Candidate Starts for Freya_49:

(Start: 23 @43468 has 332 MA's), (Start: 39 @43372 has 3 MA's), (55, 43270), (56, 43267), (57, 43261), (62, 43237), (64, 43228), (73, 43195), (78, 43168), (107, 43036), (108, 43033), (117, 42973),

Gene: FriarPreacher_49 Start: 43819, Stop: 43199, Start Num: 23
Candidate Starts for FriarPreacher_49:
(Start: 23 @43819 has 332 MA's), (Start: 39 @43723 has 3 MA's), (55, 43621), (56, 43618), (57, 43612), (62, 43588), (64, 43579), (73, 43546), (78, 43519), (107, 43387), (108, 43384), (117, 43324),

Gene: Fringe_51 Start: 43904, Stop: 43284, Start Num: 23
Candidate Starts for Fringe_51:
(Start: 23 @43904 has 332 MA's), (Start: 39 @43808 has 3 MA's), (55, 43706), (56, 43703), (57, 43697), (62, 43673), (64, 43664), (73, 43631), (78, 43604), (107, 43472), (108, 43469), (117, 43409),

Gene: FugateOSU_49 Start: 43482, Stop: 42862, Start Num: 23
Candidate Starts for FugateOSU_49:
(Start: 23 @43482 has 332 MA's), (Start: 39 @43386 has 3 MA's), (55, 43284), (56, 43281), (57, 43275), (62, 43251), (64, 43242), (73, 43209), (78, 43182), (107, 43050), (108, 43047), (117, 42987),

Gene: Funsized_53 Start: 47015, Stop: 46386, Start Num: 23
Candidate Starts for Funsized_53:
(Start: 23 @47015 has 332 MA's), (40, 46910), (54, 46814), (55, 46805), (56, 46802), (Start: 60 @46787 has 11 MA's), (63, 46769), (74, 46721), (78, 46697), (91, 46640), (93, 46634), (107, 46565), (117, 46502),

Gene: Gadjet_49 Start: 43226, Stop: 42681, Start Num: 27
Candidate Starts for Gadjet_49:
(Start: 27 @43226 has 52 MA's), (45, 43097), (50, 43076), (75, 42989), (77, 42974), (80, 42962), (90, 42932), (100, 42911), (106, 42872), (108, 42866), (109, 42857), (114, 42830),

Gene: Gareth_49 Start: 43476, Stop: 42856, Start Num: 23
Candidate Starts for Gareth_49:
(Start: 23 @43476 has 332 MA's), (Start: 39 @43380 has 3 MA's), (55, 43278), (56, 43275), (57, 43269), (62, 43245), (64, 43236), (73, 43203), (78, 43176), (107, 43044), (108, 43041), (117, 42981),

Gene: GeneCoco_50 Start: 43791, Stop: 43171, Start Num: 23
Candidate Starts for GeneCoco_50:
(Start: 23 @43791 has 332 MA's), (Start: 39 @43695 has 3 MA's), (55, 43593), (56, 43590), (57, 43584), (62, 43560), (64, 43551), (73, 43518), (78, 43491), (89, 43449), (107, 43359), (108, 43356), (117, 43296),

Gene: Gervas_48 Start: 43193, Stop: 42648, Start Num: 27
Candidate Starts for Gervas_48:
(Start: 27 @43193 has 52 MA's), (50, 43043), (75, 42956), (77, 42941), (80, 42929), (90, 42899), (100, 42878), (106, 42839), (108, 42833), (109, 42824), (114, 42797),

Gene: GinPorsche_45 Start: 43292, Stop: 42684, Start Num: 23
Candidate Starts for GinPorsche_45:
(Start: 23 @43292 has 332 MA's), (Start: 39 @43202 has 3 MA's), (57, 43088), (62, 43064), (65, 43052), (77, 43001), (99, 42914), (103, 42890), (106, 42869), (107, 42866), (121, 42788),

Gene: Giraffe_50 Start: 43500, Stop: 42880, Start Num: 23
Candidate Starts for Giraffe_50:

(Start: 23 @43500 has 332 MA's), (Start: 39 @43404 has 3 MA's), (55, 43302), (56, 43299), (57, 43293), (62, 43269), (64, 43260), (73, 43227), (78, 43200), (107, 43068), (108, 43065), (117, 43005),

Gene: Glass_49 Start: 43591, Stop: 43079, Start Num: 30
Candidate Starts for Glass_49:
(22, 43681), (Start: 30 @43591 has 55 MA's), (80, 43363), (90, 43333), (95, 43330), (98, 43318), (100, 43312), (106, 43273), (108, 43267), (111, 43252), (129, 43120), (134, 43099),

Gene: GlenHope_49 Start: 43206, Stop: 42661, Start Num: 27
Candidate Starts for GlenHope_49:
(Start: 27 @43206 has 52 MA's), (45, 43077), (50, 43056), (75, 42969), (77, 42954), (80, 42942), (90, 42912), (100, 42891), (108, 42846), (109, 42837), (114, 42810),

Gene: Glubnar_49 Start: 43205, Stop: 42660, Start Num: 27
Candidate Starts for Glubnar_49:
(Start: 27 @43205 has 52 MA's), (50, 43055), (75, 42968), (77, 42953), (80, 42941), (90, 42911), (100, 42890), (106, 42851), (108, 42845), (109, 42836), (114, 42809),

Gene: Godines_49 Start: 43543, Stop: 43019, Start Num: 30
Candidate Starts for Godines_49:
(22, 43633), (Start: 30 @43543 has 55 MA's), (80, 43303), (90, 43273), (95, 43270), (98, 43258), (100, 43252), (106, 43213), (108, 43207), (129, 43060),

Gene: Gophee_50 Start: 43774, Stop: 43154, Start Num: 23
Candidate Starts for Gophee_50:
(Start: 23 @43774 has 332 MA's), (Start: 39 @43678 has 3 MA's), (55, 43576), (56, 43573), (57, 43567), (62, 43543), (64, 43534), (73, 43501), (78, 43474), (107, 43342), (108, 43339), (117, 43279),

Gene: Grand2040_49 Start: 43494, Stop: 42874, Start Num: 23
Candidate Starts for Grand2040_49:
(Start: 23 @43494 has 332 MA's), (Start: 39 @43398 has 3 MA's), (55, 43296), (56, 43293), (57, 43287), (62, 43263), (64, 43254), (73, 43221), (78, 43194), (107, 43062), (108, 43059), (117, 42999),

Gene: GreenChile_51 Start: 43779, Stop: 43159, Start Num: 23
Candidate Starts for GreenChile_51:
(Start: 23 @43779 has 332 MA's), (Start: 39 @43683 has 3 MA's), (55, 43581), (56, 43578), (57, 43572), (62, 43548), (64, 43539), (73, 43506), (78, 43479), (107, 43347), (108, 43344), (117, 43284),

Gene: Gustav_29 Start: 23634, Stop: 23074, Start Num: 25
Candidate Starts for Gustav_29:
(Start: 25 @23634 has 5 MA's), (68, 23397), (83, 23352), (115, 23220), (116, 23202), (117, 23199), (118, 23196), (122, 23181),

Gene: Gwennie1_50 Start: 43840, Stop: 43220, Start Num: 23
Candidate Starts for Gwennie1_50:
(Start: 23 @43840 has 332 MA's), (Start: 39 @43744 has 3 MA's), (55, 43642), (56, 43639), (57, 43633), (62, 43609), (64, 43600), (73, 43567), (78, 43540), (107, 43408), (108, 43405), (117, 43345),

Gene: Gwilliam_50 Start: 43780, Stop: 43160, Start Num: 23
Candidate Starts for Gwilliam_50:
(Start: 23 @43780 has 332 MA's), (Start: 39 @43684 has 3 MA's), (55, 43582), (56, 43579), (57, 43573), (62, 43549), (64, 43540), (73, 43507), (78, 43480), (107, 43348), (108, 43345), (117, 43285),

Gene: Gyarad_0050 Start: 43794, Stop: 43174, Start Num: 23
Candidate Starts for Gyarad_0050:
(Start: 23 @43794 has 332 MA's), (Start: 39 @43698 has 3 MA's), (55, 43596), (56, 43593), (57, 43587), (62, 43563), (64, 43554), (73, 43521), (78, 43494), (107, 43362), (108, 43359), (117, 43299),

Gene: HSavage_50 Start: 43786, Stop: 43166, Start Num: 23
Candidate Starts for HSavage_50:
(Start: 23 @43786 has 332 MA's), (Start: 39 @43690 has 3 MA's), (42, 43663), (55, 43588), (56, 43585), (57, 43579), (62, 43555), (64, 43546), (73, 43513), (78, 43486), (107, 43354), (108, 43351), (117, 43291),

Gene: Haimas_50 Start: 43780, Stop: 43160, Start Num: 23
Candidate Starts for Haimas_50:
(Start: 23 @43780 has 332 MA's), (Start: 39 @43684 has 3 MA's), (55, 43582), (56, 43579), (57, 43573), (62, 43549), (64, 43540), (73, 43507), (78, 43480), (107, 43348), (108, 43345), (117, 43285),

Gene: Haleema_49 Start: 43494, Stop: 42874, Start Num: 23
Candidate Starts for Haleema_49:
(Start: 23 @43494 has 332 MA's), (Start: 39 @43398 has 3 MA's), (55, 43296), (56, 43293), (57, 43287), (62, 43263), (64, 43254), (73, 43221), (78, 43194), (107, 43062), (108, 43059), (117, 42999),

Gene: Halfpint_47 Start: 43031, Stop: 42486, Start Num: 27
Candidate Starts for Halfpint_47:
(Start: 27 @43031 has 52 MA's), (45, 42902), (50, 42881), (75, 42794), (77, 42779), (80, 42767), (90, 42737), (100, 42716), (106, 42677), (108, 42671), (109, 42662), (114, 42635),

Gene: Hally898_44 Start: 43304, Stop: 42696, Start Num: 23
Candidate Starts for Hally898_44:
(Start: 23 @43304 has 332 MA's), (Start: 39 @43214 has 3 MA's), (57, 43100), (62, 43076), (65, 43064), (77, 43013), (99, 42926), (103, 42902), (106, 42881), (107, 42878), (121, 42800),

Gene: Hamish_50 Start: 43772, Stop: 43152, Start Num: 23
Candidate Starts for Hamish_50:
(9, 43886), (16, 43859), (19, 43847), (Start: 23 @43772 has 332 MA's), (Start: 39 @43676 has 3 MA's), (55, 43574), (56, 43571), (57, 43565), (62, 43541), (64, 43532), (73, 43499), (78, 43472), (107, 43340), (108, 43337), (117, 43277),

Gene: Hangman_45 Start: 44428, Stop: 43820, Start Num: 23
Candidate Starts for Hangman_45:
(Start: 23 @44428 has 332 MA's), (Start: 39 @44338 has 3 MA's), (57, 44224), (62, 44200), (65, 44188), (77, 44137), (99, 44050), (103, 44026), (106, 44005), (107, 44002), (120, 43927), (121, 43924),

Gene: Happabalu_50 Start: 43501, Stop: 42881, Start Num: 23
Candidate Starts for Happabalu_50:
(Start: 23 @43501 has 332 MA's), (Start: 39 @43405 has 3 MA's), (55, 43303), (56, 43300), (57, 43294), (62, 43270), (64, 43261), (73, 43228), (78, 43201), (107, 43069), (108, 43066), (117, 43006),

Gene: Hartsy_50 Start: 43823, Stop: 43203, Start Num: 23
Candidate Starts for Hartsy_50:
(Start: 23 @43823 has 332 MA's), (Start: 39 @43727 has 3 MA's), (55, 43625), (56, 43622), (57, 43616), (62, 43592), (64, 43583), (73, 43550), (78, 43523), (107, 43391), (108, 43388), (117, 43328),

Gene: Harvey_50 Start: 43810, Stop: 43190, Start Num: 23
Candidate Starts for Harvey_50:
(Start: 23 @43810 has 332 MA's), (Start: 39 @43714 has 3 MA's), (55, 43612), (56, 43609), (57, 43603), (62, 43579), (64, 43570), (73, 43537), (78, 43510), (107, 43378), (108, 43375), (117, 43315),

Gene: HarveySr_48 Start: 43199, Stop: 42654, Start Num: 27
Candidate Starts for HarveySr_48:
(Start: 27 @43199 has 52 MA's), (50, 43049), (75, 42962), (77, 42947), (80, 42935), (90, 42905), (100, 42884), (106, 42845), (108, 42839), (109, 42830), (114, 42803),

Gene: Hashim76_52 Start: 43507, Stop: 42890, Start Num: 23
Candidate Starts for Hashim76_52:
(Start: 23 @43507 has 332 MA's), (47, 43306), (54, 43279), (62, 43237), (107, 43075), (117, 43012), (123, 42961),

Gene: Heath_44 Start: 43936, Stop: 43322, Start Num: 23
Candidate Starts for Heath_44:
(Start: 23 @43936 has 332 MA's), (Start: 39 @43843 has 3 MA's), (57, 43729), (62, 43705), (65, 43693), (77, 43642), (99, 43555), (103, 43531), (106, 43510), (107, 43507), (120, 43432),

Gene: Heathcliff_48 Start: 43177, Stop: 42632, Start Num: 27
Candidate Starts for Heathcliff_48:
(Start: 27 @43177 has 52 MA's), (45, 43048), (50, 43027), (75, 42940), (77, 42925), (80, 42913), (90, 42883), (100, 42862), (106, 42823), (108, 42817), (109, 42808), (114, 42781),

Gene: Hedgerow_49 Start: 43600, Stop: 43061, Start Num: 30
Candidate Starts for Hedgerow_49:
(22, 43690), (Start: 30 @43600 has 55 MA's), (80, 43345), (90, 43315), (95, 43312), (98, 43300), (100, 43294), (106, 43255), (108, 43249), (111, 43234), (129, 43102), (134, 43081),

Gene: Hekos_47 Start: 42349, Stop: 41729, Start Num: 23
Candidate Starts for Hekos_47:
(Start: 23 @42349 has 332 MA's), (Start: 39 @42253 has 3 MA's), (55, 42151), (56, 42148), (57, 42142), (62, 42118), (64, 42109), (73, 42076), (78, 42049), (107, 41917), (108, 41914), (117, 41854),

Gene: Held_50 Start: 43499, Stop: 42879, Start Num: 23
Candidate Starts for Held_50:
(Start: 23 @43499 has 332 MA's), (Start: 39 @43403 has 3 MA's), (55, 43301), (56, 43298), (57, 43292), (62, 43268), (64, 43259), (73, 43226), (78, 43199), (107, 43067), (108, 43064), (117, 43004),

Gene: HenryJackson_49 Start: 43494, Stop: 42874, Start Num: 23
Candidate Starts for HenryJackson_49:
(Start: 23 @43494 has 332 MA's), (Start: 39 @43398 has 3 MA's), (55, 43296), (56, 43293), (57, 43287), (62, 43263), (64, 43254), (73, 43221), (78, 43194), (107, 43062), (108, 43059), (117, 42999),

Gene: Hertubise_50 Start: 43794, Stop: 43174, Start Num: 23
Candidate Starts for Hertubise_50:
(Start: 23 @43794 has 332 MA's), (Start: 39 @43698 has 3 MA's), (55, 43596), (56, 43593), (57, 43587), (62, 43563), (64, 43554), (73, 43521), (78, 43494), (107, 43362), (108, 43359), (117, 43299),

Gene: Hetaeria_50 Start: 43811, Stop: 43191, Start Num: 23
Candidate Starts for Hetaeria_50:

(Start: 23 @43811 has 332 MA's), (Start: 39 @43715 has 3 MA's), (55, 43613), (56, 43610), (57, 43604), (62, 43580), (64, 43571), (73, 43538), (78, 43511), (107, 43379), (108, 43376), (117, 43316),

Gene: HighStump_50 Start: 43621, Stop: 43001, Start Num: 23
Candidate Starts for HighStump_50:
(Start: 23 @43621 has 332 MA's), (Start: 39 @43525 has 3 MA's), (55, 43423), (56, 43420), (57, 43414), (62, 43390), (64, 43381), (73, 43348), (78, 43321), (107, 43189), (108, 43186), (117, 43126),

Gene: Hocus_49 Start: 43483, Stop: 42863, Start Num: 23
Candidate Starts for Hocus_49:
(Start: 23 @43483 has 332 MA's), (Start: 39 @43387 has 3 MA's), (55, 43285), (56, 43282), (57, 43276), (62, 43252), (64, 43243), (73, 43210), (78, 43183), (107, 43051), (108, 43048), (117, 42988),

Gene: HogWash_50 Start: 43792, Stop: 43172, Start Num: 23
Candidate Starts for HogWash_50:
(Start: 23 @43792 has 332 MA's), (Start: 39 @43696 has 3 MA's), (55, 43594), (56, 43591), (57, 43585), (62, 43561), (64, 43552), (73, 43519), (78, 43492), (107, 43360), (108, 43357), (117, 43297),

Gene: Holeinone_49 Start: 43451, Stop: 42939, Start Num: 30
Candidate Starts for Holeinone_49:
(22, 43541), (Start: 30 @43451 has 55 MA's), (80, 43223), (90, 43193), (95, 43190), (98, 43178), (100, 43172), (106, 43133), (108, 43127), (111, 43112), (129, 42980),

Gene: Horchata_50 Start: 43786, Stop: 43166, Start Num: 23
Candidate Starts for Horchata_50:
(Start: 23 @43786 has 332 MA's), (Start: 39 @43690 has 3 MA's), (55, 43588), (56, 43585), (57, 43579), (62, 43555), (64, 43546), (73, 43513), (78, 43486), (107, 43354), (108, 43351), (117, 43291),

Gene: Hosp_041 Start: 40282, Stop: 39653, Start Num: 23
Candidate Starts for Hosp_041:
(8, 40396), (Start: 23 @40282 has 332 MA's), (55, 40081), (56, 40078), (57, 40072), (62, 40048), (78, 39976),

Gene: Hydro_45 Start: 44364, Stop: 43750, Start Num: 23
Candidate Starts for Hydro_45:
(Start: 23 @44364 has 332 MA's), (Start: 39 @44271 has 3 MA's), (57, 44157), (62, 44133), (65, 44121), (77, 44070), (99, 43983), (103, 43959), (106, 43938), (107, 43935), (120, 43860),

Gene: ImtiyazSitla_50 Start: 43469, Stop: 42849, Start Num: 23
Candidate Starts for ImtiyazSitla_50:
(Start: 23 @43469 has 332 MA's), (Start: 39 @43373 has 3 MA's), (55, 43271), (56, 43268), (57, 43262), (62, 43238), (64, 43229), (73, 43196), (78, 43169), (107, 43037), (108, 43034), (117, 42974),

Gene: Imvubu_42 Start: 41052, Stop: 40453, Start Num: 23
Candidate Starts for Imvubu_42:
(1, 41370), (13, 41151), (18, 41136), (Start: 23 @41052 has 332 MA's), (Start: 39 @40947 has 3 MA's), (40, 40938), (54, 40848), (57, 40830), (61, 40815), (62, 40806), (75, 40752), (117, 40581),

Gene: Inchworm_51 Start: 43907, Stop: 43287, Start Num: 23
Candidate Starts for Inchworm_51:
(Start: 23 @43907 has 332 MA's), (Start: 39 @43811 has 3 MA's), (55, 43709), (56, 43706), (57, 43700), (62, 43676), (64, 43667), (73, 43634), (78, 43607), (107, 43475), (108, 43472), (117, 43412),

Gene: Indlovu_47 Start: 43460, Stop: 42840, Start Num: 23
Candidate Starts for Indlovu_47:
(Start: 23 @43460 has 332 MA's), (51, 43289), (54, 43277), (62, 43235), (73, 43190), (75, 43184), (78, 43163), (103, 43055), (106, 43034), (107, 43031),

Gene: Inverness_50 Start: 43795, Stop: 43175, Start Num: 23
Candidate Starts for Inverness_50:
(Start: 23 @43795 has 332 MA's), (Start: 39 @43699 has 3 MA's), (42, 43672), (55, 43597), (56, 43594), (57, 43588), (62, 43564), (64, 43555), (73, 43522), (78, 43495), (107, 43363), (108, 43360), (117, 43300),

Gene: Iridessa_50 Start: 43479, Stop: 42859, Start Num: 23
Candidate Starts for Iridessa_50:
(Start: 23 @43479 has 332 MA's), (Start: 39 @43383 has 3 MA's), (55, 43281), (56, 43278), (57, 43272), (62, 43248), (64, 43239), (73, 43206), (78, 43179), (107, 43047), (108, 43044), (117, 42984),

Gene: Iridoclysis_50 Start: 43766, Stop: 43146, Start Num: 23
Candidate Starts for Iridoclysis_50:
(Start: 23 @43766 has 332 MA's), (Start: 39 @43670 has 3 MA's), (55, 43568), (56, 43565), (57, 43559), (62, 43535), (64, 43526), (73, 43493), (78, 43466), (107, 43334), (108, 43331), (117, 43271),

Gene: IsaacEli_51 Start: 43925, Stop: 43305, Start Num: 23
Candidate Starts for IsaacEli_51:
(Start: 23 @43925 has 332 MA's), (Start: 39 @43829 has 3 MA's), (55, 43727), (56, 43724), (57, 43718), (62, 43694), (64, 43685), (73, 43652), (78, 43625), (107, 43493), (108, 43490), (117, 43430),

Gene: ItsyBitsy1_49 Start: 43468, Stop: 42941, Start Num: 30
Candidate Starts for ItsyBitsy1_49:
(22, 43558), (Start: 30 @43468 has 55 MA's), (80, 43225), (90, 43195), (95, 43192), (98, 43180), (100, 43174), (106, 43135), (108, 43129), (111, 43114), (129, 42982),

Gene: JAMaL_45 Start: 44498, Stop: 43890, Start Num: 23
Candidate Starts for JAMaL_45:
(Start: 23 @44498 has 332 MA's), (Start: 39 @44408 has 3 MA's), (57, 44294), (62, 44270), (65, 44258), (77, 44207), (99, 44120), (103, 44096), (106, 44075), (107, 44072), (121, 43994),

Gene: JDog_49 Start: 43503, Stop: 42883, Start Num: 23
Candidate Starts for JDog_49:
(Start: 23 @43503 has 332 MA's), (Start: 39 @43407 has 3 MA's), (55, 43305), (56, 43302), (57, 43296), (62, 43272), (64, 43263), (73, 43230), (78, 43203), (107, 43071), (108, 43068), (117, 43008),

Gene: JacAttac_51 Start: 43907, Stop: 43287, Start Num: 23
Candidate Starts for JacAttac_51:
(Start: 23 @43907 has 332 MA's), (Start: 39 @43811 has 3 MA's), (55, 43709), (56, 43706), (57, 43700), (62, 43676), (64, 43667), (73, 43634), (78, 43607), (107, 43475), (108, 43472), (117, 43412),

Gene: Jackstina_45 Start: 43136, Stop: 42591, Start Num: 27
Candidate Starts for Jackstina_45:
(Start: 27 @43136 has 52 MA's), (45, 43007), (50, 42986), (75, 42899), (77, 42884), (80, 42872), (90, 42842), (100, 42821), (106, 42782), (108, 42776), (109, 42767), (114, 42740),

Gene: JaguarMi_45 Start: 43807, Stop: 43199, Start Num: 23
Candidate Starts for JaguarMi_45:

(Start: 23 @43807 has 332 MA's), (Start: 39 @43717 has 3 MA's), (55, 43612), (57, 43603), (62, 43579), (77, 43516), (99, 43429), (103, 43405), (106, 43384), (107, 43381), (120, 43306),

Gene: JakeO_49 Start: 43502, Stop: 42882, Start Num: 23
Candidate Starts for JakeO_49:
(Start: 23 @43502 has 332 MA's), (Start: 39 @43406 has 3 MA's), (55, 43304), (56, 43301), (57, 43295), (62, 43271), (64, 43262), (73, 43229), (78, 43202), (89, 43160), (107, 43070), (108, 43067), (117, 43007),

Gene: JangoPhett_50 Start: 43777, Stop: 43157, Start Num: 23
Candidate Starts for JangoPhett_50:
(Start: 23 @43777 has 332 MA's), (Start: 39 @43681 has 3 MA's), (55, 43579), (56, 43576), (57, 43570), (62, 43546), (64, 43537), (73, 43504), (78, 43477), (107, 43345), (108, 43342), (117, 43282),

Gene: Jesabah_50 Start: 43505, Stop: 42885, Start Num: 23
Candidate Starts for Jesabah_50:
(Start: 23 @43505 has 332 MA's), (Start: 39 @43409 has 3 MA's), (55, 43307), (56, 43304), (57, 43298), (62, 43274), (64, 43265), (73, 43232), (78, 43205), (107, 43073), (108, 43070), (117, 43010),

Gene: Jillium_49 Start: 43496, Stop: 42876, Start Num: 23
Candidate Starts for Jillium_49:
(Start: 23 @43496 has 332 MA's), (Start: 39 @43400 has 3 MA's), (55, 43298), (56, 43295), (57, 43289), (62, 43265), (64, 43256), (73, 43223), (78, 43196), (107, 43064), (108, 43061), (117, 43001),

Gene: Jiminy_49 Start: 43337, Stop: 42717, Start Num: 23
Candidate Starts for Jiminy_49:
(Start: 23 @43337 has 332 MA's), (Start: 39 @43241 has 3 MA's), (55, 43139), (56, 43136), (57, 43130), (62, 43106), (64, 43097), (73, 43064), (78, 43037), (89, 42995), (107, 42905), (108, 42902), (117, 42842),

Gene: Jiraiya_49 Start: 43490, Stop: 42870, Start Num: 23
Candidate Starts for Jiraiya_49:
(Start: 23 @43490 has 332 MA's), (Start: 39 @43394 has 3 MA's), (55, 43292), (56, 43289), (57, 43283), (62, 43259), (64, 43250), (73, 43217), (78, 43190), (107, 43058), (108, 43055), (117, 42995),

Gene: Jolie1_043 Start: 42057, Stop: 41428, Start Num: 23
Candidate Starts for Jolie1_043:
(Start: 23 @42057 has 332 MA's), (55, 41856), (57, 41847), (62, 41823), (78, 41751),

Gene: JoyceMaria_45 Start: 44317, Stop: 43706, Start Num: 23
Candidate Starts for JoyceMaria_45:
(Start: 23 @44317 has 332 MA's), (Start: 39 @44227 has 3 MA's), (57, 44113), (62, 44089), (65, 44077), (77, 44026), (99, 43939), (103, 43915), (106, 43894), (107, 43891), (120, 43816), (121, 43813),

Gene: KLucky39_50 Start: 43793, Stop: 43173, Start Num: 23
Candidate Starts for KLucky39_50:
(Start: 23 @43793 has 332 MA's), (Start: 39 @43697 has 3 MA's), (55, 43595), (56, 43592), (57, 43586), (62, 43562), (64, 43553), (73, 43520), (78, 43493), (107, 43361), (108, 43358), (117, 43298),

Gene: Kahve_49 Start: 43491, Stop: 42871, Start Num: 23
Candidate Starts for Kahve_49:

(Start: 23 @43491 has 332 MA's), (Start: 39 @43395 has 3 MA's), (55, 43293), (56, 43290), (57, 43284), (62, 43260), (64, 43251), (73, 43218), (78, 43191), (107, 43059), (108, 43056), (117, 42996),

Gene: Kailash_50 Start: 43853, Stop: 43233, Start Num: 23
Candidate Starts for Kailash_50:
(Start: 23 @43853 has 332 MA's), (Start: 39 @43757 has 3 MA's), (55, 43655), (56, 43652), (57, 43646), (62, 43622), (64, 43613), (73, 43580), (78, 43553), (107, 43421), (108, 43418), (117, 43358),

Gene: Kaleb_49 Start: 43615, Stop: 43076, Start Num: 30
Candidate Starts for Kaleb_49:
(22, 43705), (Start: 30 @43615 has 55 MA's), (80, 43360), (90, 43330), (95, 43327), (98, 43315), (100, 43309), (106, 43270), (108, 43264), (111, 43249), (129, 43117), (134, 43096),

Gene: Kamiyu_48 Start: 43184, Stop: 42639, Start Num: 27
Candidate Starts for Kamiyu_48:
(Start: 27 @43184 has 52 MA's), (45, 43055), (50, 43034), (75, 42947), (77, 42932), (80, 42920), (90, 42890), (100, 42869), (106, 42830), (108, 42824), (109, 42815), (114, 42788),

Gene: KarasumaRum_50 Start: 44848, Stop: 44249, Start Num: 23
Candidate Starts for KarasumaRum_50:
(12, 44956), (Start: 23 @44848 has 332 MA's), (40, 44731), (56, 44623), (57, 44617), (62, 44593), (103, 44458), (114, 44395), (117, 44371), (125, 44314),

Gene: Karn_49 Start: 43497, Stop: 42877, Start Num: 23
Candidate Starts for Karn_49:
(Start: 23 @43497 has 332 MA's), (Start: 39 @43401 has 3 MA's), (55, 43299), (56, 43296), (57, 43290), (62, 43266), (64, 43257), (73, 43224), (78, 43197), (107, 43065), (108, 43062), (117, 43002),

Gene: Katniss_51 Start: 43934, Stop: 43314, Start Num: 23
Candidate Starts for Katniss_51:
(Start: 23 @43934 has 332 MA's), (Start: 39 @43838 has 3 MA's), (55, 43736), (56, 43733), (57, 43727), (62, 43703), (64, 43694), (73, 43661), (78, 43634), (107, 43502), (108, 43499), (117, 43439),

Gene: KayaCho_43 Start: 42082, Stop: 41447, Start Num: 23
Candidate Starts for KayaCho_43:
(6, 42232), (15, 42172), (Start: 23 @42082 has 332 MA's), (55, 41875), (56, 41872), (57, 41866), (62, 41842), (78, 41770), (106, 41641),

Gene: Keitherie_50 Start: 43837, Stop: 43217, Start Num: 23
Candidate Starts for Keitherie_50:
(Start: 23 @43837 has 332 MA's), (Start: 39 @43741 has 3 MA's), (55, 43639), (56, 43636), (57, 43630), (62, 43606), (64, 43597), (73, 43564), (78, 43537), (107, 43405), (108, 43402), (117, 43342),

Gene: Khan1_50 Start: 43512, Stop: 42892, Start Num: 23
Candidate Starts for Khan1_50:
(Start: 23 @43512 has 332 MA's), (Start: 39 @43416 has 3 MA's), (55, 43314), (56, 43311), (57, 43305), (62, 43281), (64, 43272), (73, 43239), (78, 43212), (107, 43080), (108, 43077), (117, 43017),

Gene: Kheth_49 Start: 43504, Stop: 42992, Start Num: 30
Candidate Starts for Kheth_49:
(22, 43594), (Start: 30 @43504 has 55 MA's), (80, 43276), (90, 43246), (95, 43243), (98, 43231), (100, 43225), (106, 43186), (108, 43180), (111, 43165), (129, 43033),

Gene: Kikipoo_51 Start: 43925, Stop: 43305, Start Num: 23
Candidate Starts for Kikipoo_51:
(Start: 23 @43925 has 332 MA's), (Start: 39 @43829 has 3 MA's), (55, 43727), (56, 43724), (57, 43718), (62, 43694), (64, 43685), (73, 43652), (78, 43625), (107, 43493), (108, 43490), (117, 43430),

Gene: Kimbrough_50 Start: 43498, Stop: 42878, Start Num: 23
Candidate Starts for Kimbrough_50:
(Start: 23 @43498 has 332 MA's), (Start: 39 @43402 has 3 MA's), (55, 43300), (56, 43297), (57, 43291), (62, 43267), (64, 43258), (73, 43225), (78, 43198), (107, 43066), (108, 43063), (117, 43003),

Gene: KingTut_41 Start: 39161, Stop: 38541, Start Num: 23
Candidate Starts for KingTut_41:
(Start: 23 @39161 has 332 MA's), (Start: 39 @39065 has 3 MA's), (55, 38963), (56, 38960), (57, 38954), (62, 38930), (64, 38921), (73, 38888), (78, 38861), (107, 38729), (108, 38726), (117, 38666),

Gene: KingVeVeVe_50 Start: 43769, Stop: 43149, Start Num: 23
Candidate Starts for KingVeVeVe_50:
(Start: 23 @43769 has 332 MA's), (Start: 39 @43673 has 3 MA's), (55, 43571), (56, 43568), (57, 43562), (62, 43538), (64, 43529), (73, 43496), (78, 43469), (107, 43337), (108, 43334), (117, 43274),

Gene: KlimbOn_50 Start: 43787, Stop: 43167, Start Num: 23
Candidate Starts for KlimbOn_50:
(Start: 23 @43787 has 332 MA's), (Start: 39 @43691 has 3 MA's), (42, 43664), (55, 43589), (56, 43586), (57, 43580), (62, 43556), (64, 43547), (73, 43514), (78, 43487), (107, 43355), (108, 43352), (117, 43292),

Gene: Kloppinator_51 Start: 44200, Stop: 43580, Start Num: 23
Candidate Starts for Kloppinator_51:
(Start: 23 @44200 has 332 MA's), (Start: 39 @44104 has 3 MA's), (55, 44002), (56, 43999), (57, 43993), (62, 43969), (64, 43960), (73, 43927), (78, 43900), (107, 43768), (108, 43765), (117, 43705),

Gene: Knocker_51 Start: 46002, Stop: 45382, Start Num: 23
Candidate Starts for Knocker_51:
(Start: 23 @46002 has 332 MA's), (40, 45912), (54, 45813), (55, 45804), (56, 45801), (63, 45768), (74, 45720), (78, 45696), (91, 45639), (93, 45633), (107, 45564), (112, 45543), (117, 45501), (127, 45438),

Gene: Kolhan_49 Start: 43468, Stop: 42947, Start Num: 30
Candidate Starts for Kolhan_49:
(22, 43558), (Start: 30 @43468 has 55 MA's), (80, 43231), (90, 43201), (95, 43198), (98, 43186), (100, 43180), (106, 43141), (108, 43135), (111, 43120), (129, 42988), (134, 42967),

Gene: Kronus_47 Start: 43796, Stop: 43251, Start Num: 27
Candidate Starts for Kronus_47:
(Start: 27 @43796 has 52 MA's), (50, 43646), (75, 43559), (77, 43544), (80, 43532), (90, 43502), (100, 43481), (106, 43442), (108, 43436), (109, 43427), (114, 43400),

Gene: Kwadwo_49 Start: 43473, Stop: 42853, Start Num: 23
Candidate Starts for Kwadwo_49:
(Start: 23 @43473 has 332 MA's), (Start: 39 @43377 has 3 MA's), (55, 43275), (56, 43272), (57, 43266), (62, 43242), (64, 43233), (73, 43200), (78, 43173), (107, 43041), (108, 43038), (117, 42978),

Gene: Kwksand96_49 Start: 43348, Stop: 42728, Start Num: 23
Candidate Starts for Kwksand96_49:

(Start: 23 @43348 has 332 MA's), (Start: 39 @43252 has 3 MA's), (55, 43150), (56, 43147), (57, 43141), (62, 43117), (64, 43108), (73, 43075), (78, 43048), (107, 42916), (108, 42913), (117, 42853),

Gene: Labeouficaum_49 Start: 43343, Stop: 42723, Start Num: 23
Candidate Starts for Labeouficaum_49:
(Start: 23 @43343 has 332 MA's), (Start: 39 @43247 has 3 MA's), (55, 43145), (56, 43142), (57, 43136), (62, 43112), (64, 43103), (73, 43070), (78, 43043), (89, 43001), (107, 42911), (108, 42908), (117, 42848),

Gene: Lambano_44 Start: 43304, Stop: 42696, Start Num: 23
Candidate Starts for Lambano_44:
(Start: 23 @43304 has 332 MA's), (Start: 39 @43214 has 3 MA's), (57, 43100), (62, 43076), (65, 43064), (77, 43013), (99, 42926), (103, 42902), (106, 42881), (107, 42878), (121, 42800),

Gene: Lars_49 Start: 43575, Stop: 43063, Start Num: 30
Candidate Starts for Lars_49:
(22, 43665), (Start: 30 @43575 has 55 MA's), (80, 43347), (90, 43317), (95, 43314), (98, 43302), (100, 43296), (106, 43257), (108, 43251), (111, 43236), (129, 43104), (134, 43083),

Gene: Larson_52 Start: 43895, Stop: 43275, Start Num: 23
Candidate Starts for Larson_52:
(Start: 23 @43895 has 332 MA's), (Start: 39 @43799 has 3 MA's), (55, 43697), (56, 43694), (57, 43688), (62, 43664), (64, 43655), (73, 43622), (78, 43595), (107, 43463), (108, 43460), (117, 43400),

Gene: LasagnaCat_51 Start: 43919, Stop: 43299, Start Num: 23
Candidate Starts for LasagnaCat_51:
(Start: 23 @43919 has 332 MA's), (Start: 39 @43823 has 3 MA's), (55, 43721), (56, 43718), (57, 43712), (62, 43688), (64, 43679), (73, 43646), (78, 43619), (107, 43487), (108, 43484), (117, 43424),

Gene: Lasso_50 Start: 43748, Stop: 43128, Start Num: 23
Candidate Starts for Lasso_50:
(Start: 23 @43748 has 332 MA's), (Start: 39 @43652 has 3 MA's), (55, 43550), (56, 43547), (57, 43541), (62, 43517), (64, 43508), (73, 43475), (78, 43448), (107, 43316), (108, 43313), (117, 43253),

Gene: Laurie_48 Start: 42963, Stop: 42463, Start Num: 30
Candidate Starts for Laurie_48:
(22, 43053), (Start: 30 @42963 has 55 MA's), (80, 42747), (90, 42717), (95, 42714), (98, 42702), (100, 42696), (106, 42657), (108, 42651), (111, 42636), (129, 42504),

Gene: LeeLot_50 Start: 43800, Stop: 43180, Start Num: 23
Candidate Starts for LeeLot_50:
(Start: 23 @43800 has 332 MA's), (Start: 39 @43704 has 3 MA's), (55, 43602), (56, 43599), (57, 43593), (62, 43569), (64, 43560), (73, 43527), (78, 43500), (107, 43368), (108, 43365), (117, 43305),

Gene: Lego3393_49 Start: 43928, Stop: 43308, Start Num: 23
Candidate Starts for Lego3393_49:
(Start: 23 @43928 has 332 MA's), (Start: 39 @43832 has 3 MA's), (55, 43730), (56, 43727), (57, 43721), (62, 43697), (64, 43688), (73, 43655), (78, 43628), (107, 43496), (108, 43493), (117, 43433),

Gene: Legolas_50 Start: 43518, Stop: 42898, Start Num: 23
Candidate Starts for Legolas_50:
(Start: 23 @43518 has 332 MA's), (Start: 39 @43422 has 3 MA's), (55, 43320), (56, 43317), (57, 43311), (62, 43287), (64, 43278), (73, 43245), (78, 43218), (107, 43086), (108, 43083), (117, 43023),

Gene: Lehmann_50 Start: 43330, Stop: 42710, Start Num: 23
Candidate Starts for Lehmann_50:
(Start: 23 @43330 has 332 MA's), (Start: 39 @43234 has 3 MA's), (55, 43132), (56, 43129), (57, 43123), (62, 43099), (64, 43090), (73, 43057), (78, 43030), (107, 42898), (108, 42895), (117, 42835),

Gene: LeiMonet_51 Start: 43480, Stop: 42860, Start Num: 23
Candidate Starts for LeiMonet_51:
(Start: 23 @43480 has 332 MA's), (Start: 39 @43384 has 3 MA's), (55, 43282), (56, 43279), (57, 43273), (62, 43249), (64, 43240), (73, 43207), (78, 43180), (107, 43048), (108, 43045), (117, 42985),

Gene: LemonSlice_50 Start: 43485, Stop: 42865, Start Num: 23
Candidate Starts for LemonSlice_50:
(Start: 23 @43485 has 332 MA's), (Start: 39 @43389 has 3 MA's), (55, 43287), (56, 43284), (57, 43278), (62, 43254), (64, 43245), (73, 43212), (78, 43185), (107, 43053), (108, 43050), (117, 42990),

Gene: Lephleur_49 Start: 43481, Stop: 42957, Start Num: 30
Candidate Starts for Lephleur_49:
(22, 43571), (Start: 30 @43481 has 55 MA's), (80, 43241), (90, 43211), (95, 43208), (98, 43196), (100, 43190), (106, 43151), (108, 43145), (111, 43130), (129, 42998), (134, 42977),

Gene: LestyG_48 Start: 43216, Stop: 42671, Start Num: 27
Candidate Starts for LestyG_48:
(Start: 27 @43216 has 52 MA's), (50, 43066), (75, 42979), (77, 42964), (80, 42952), (90, 42922), (100, 42901), (106, 42862), (108, 42856), (109, 42847), (114, 42820),

Gene: Ligma_43 Start: 36579, Stop: 36085, Start Num: 30
Candidate Starts for Ligma_43:
(Start: 30 @36579 has 55 MA's), (80, 36354), (104, 36276), (106, 36264), (114, 36222), (122, 36180), (133, 36099),

Gene: LilMcDreamy_47 Start: 43863, Stop: 43261, Start Num: 23
Candidate Starts for LilMcDreamy_47:
(Start: 23 @43863 has 332 MA's), (40, 43746), (56, 43638), (57, 43632), (62, 43608), (107, 43449), (114, 43410), (117, 43386), (121, 43371), (124, 43332), (126, 43326),

Gene: LilSmirk_49 Start: 43478, Stop: 42954, Start Num: 30
Candidate Starts for LilSmirk_49:
(22, 43568), (Start: 30 @43478 has 55 MA's), (80, 43238), (90, 43208), (95, 43205), (98, 43193), (100, 43187), (106, 43148), (108, 43142), (129, 42995),

Gene: LittleDigger_44 Start: 43320, Stop: 42712, Start Num: 23
Candidate Starts for LittleDigger_44:
(Start: 23 @43320 has 332 MA's), (Start: 39 @43230 has 3 MA's), (57, 43116), (62, 43092), (65, 43080), (77, 43029), (99, 42942), (103, 42918), (106, 42897), (107, 42894), (121, 42816),

Gene: LittleMinkey_55 Start: 43596, Stop: 42979, Start Num: 23
Candidate Starts for LittleMinkey_55:
(Start: 23 @43596 has 332 MA's), (47, 43395), (54, 43368), (62, 43326), (107, 43164), (117, 43101), (123, 43050),

Gene: LittleMunchkin_45 Start: 39895, Stop: 39398, Start Num: 30
Candidate Starts for LittleMunchkin_45:

(Start: 30 @39895 has 55 MA's), (68, 39712), (71, 39706), (73, 39700), (80, 39667), (84, 39655), (101, 39613), (106, 39577), (108, 39571), (114, 39535), (116, 39514), (122, 39493),

Gene: LizLemon_49 Start: 43597, Stop: 43073, Start Num: 30
Candidate Starts for LizLemon_49:
(22, 43687), (Start: 30 @43597 has 55 MA's), (80, 43357), (90, 43327), (95, 43324), (98, 43312), (100, 43306), (106, 43267), (108, 43261), (111, 43246), (129, 43114), (134, 43093),

Gene: Lolalove_46 Start: 44331, Stop: 43717, Start Num: 23
Candidate Starts for Lolalove_46:
(Start: 23 @44331 has 332 MA's), (Start: 39 @44238 has 3 MA's), (57, 44124), (62, 44100), (65, 44088), (77, 44037), (99, 43950), (103, 43926), (106, 43905), (107, 43902), (120, 43827),

Gene: Longacauda_49 Start: 43481, Stop: 42861, Start Num: 23
Candidate Starts for Longacauda_49:
(Start: 23 @43481 has 332 MA's), (Start: 39 @43385 has 3 MA's), (55, 43283), (56, 43280), (57, 43274), (62, 43250), (64, 43241), (73, 43208), (78, 43181), (107, 43049), (108, 43046), (117, 42986),

Gene: Lopsy_49 Start: 43346, Stop: 42726, Start Num: 23
Candidate Starts for Lopsy_49:
(Start: 23 @43346 has 332 MA's), (Start: 39 @43250 has 3 MA's), (55, 43148), (56, 43145), (57, 43139), (62, 43115), (64, 43106), (73, 43073), (78, 43046), (107, 42914), (108, 42911), (117, 42851),

Gene: LostAndPhound_49 Start: 43500, Stop: 42880, Start Num: 23
Candidate Starts for LostAndPhound_49:
(Start: 23 @43500 has 332 MA's), (Start: 39 @43404 has 3 MA's), (55, 43302), (56, 43299), (57, 43293), (62, 43269), (64, 43260), (73, 43227), (78, 43200), (107, 43068), (108, 43065), (117, 43005),

Gene: LuckyMarjie_49 Start: 43488, Stop: 42868, Start Num: 23
Candidate Starts for LuckyMarjie_49:
(Start: 23 @43488 has 332 MA's), (Start: 39 @43392 has 3 MA's), (55, 43290), (56, 43287), (57, 43281), (62, 43257), (64, 43248), (73, 43215), (78, 43188), (107, 43056), (108, 43053), (117, 42993),

Gene: Lulumae_49 Start: 43473, Stop: 42853, Start Num: 23
Candidate Starts for Lulumae_49:
(Start: 23 @43473 has 332 MA's), (Start: 39 @43377 has 3 MA's), (55, 43275), (56, 43272), (57, 43266), (62, 43242), (64, 43233), (73, 43200), (78, 43173), (107, 43041), (108, 43038), (117, 42978),

Gene: Lulwa_50 Start: 43766, Stop: 43146, Start Num: 23
Candidate Starts for Lulwa_50:
(Start: 23 @43766 has 332 MA's), (Start: 39 @43670 has 3 MA's), (55, 43568), (56, 43565), (57, 43559), (62, 43535), (64, 43526), (73, 43493), (78, 43466), (107, 43334), (108, 43331), (117, 43271),

Gene: Lumine_49 Start: 43469, Stop: 42849, Start Num: 23
Candidate Starts for Lumine_49:
(Start: 23 @43469 has 332 MA's), (Start: 39 @43373 has 3 MA's), (55, 43271), (56, 43268), (57, 43262), (62, 43238), (64, 43229), (73, 43196), (78, 43169), (107, 43037), (108, 43034), (117, 42974),

Gene: MRabcd_49 Start: 43479, Stop: 42859, Start Num: 23
Candidate Starts for MRabcd_49:
(Start: 23 @43479 has 332 MA's), (Start: 39 @43383 has 3 MA's), (55, 43281), (56, 43278), (57, 43272), (62, 43248), (64, 43239), (73, 43206), (78, 43179), (107, 43047), (108, 43044), (117, 42984),

Gene: Mag7_49 Start: 43403, Stop: 42783, Start Num: 23
Candidate Starts for Mag7_49:
(Start: 23 @43403 has 332 MA's), (Start: 39 @43307 has 3 MA's), (55, 43205), (56, 43202), (57, 43196), (62, 43172), (64, 43163), (73, 43130), (78, 43103), (107, 42971), (108, 42968), (117, 42908),

Gene: Magic8_50 Start: 43838, Stop: 43218, Start Num: 23
Candidate Starts for Magic8_50:
(Start: 23 @43838 has 332 MA's), (Start: 39 @43742 has 3 MA's), (55, 43640), (56, 43637), (57, 43631), (62, 43607), (64, 43598), (73, 43565), (78, 43538), (107, 43406), (108, 43403), (117, 43343),

Gene: Magpie_44 Start: 44170, Stop: 43559, Start Num: 23
Candidate Starts for Magpie_44:
(Start: 23 @44170 has 332 MA's), (Start: 39 @44080 has 3 MA's), (57, 43966), (62, 43942), (65, 43930), (77, 43879), (99, 43792), (103, 43768), (106, 43747), (107, 43744), (120, 43669),

Gene: Mahdia_29 Start: 23020, Stop: 22475, Start Num: 25
Candidate Starts for Mahdia_29:
(Start: 25 @23020 has 5 MA's), (44, 22903), (53, 22864), (83, 22753), (110, 22648), (115, 22621), (116, 22603), (117, 22600), (118, 22597), (131, 22513),

Gene: Maih_41 Start: 34222, Stop: 33800, Start Num: 60
Candidate Starts for Maih_41:
(Start: 60 @34222 has 11 MA's), (67, 34183), (74, 34165), (82, 34129), (96, 34087), (100, 34072), (107, 34030), (131, 33883),

Gene: MakoManhole_46 Start: 38880, Stop: 38386, Start Num: 30
Candidate Starts for MakoManhole_46:
(Start: 30 @38880 has 55 MA's), (49, 38781), (59, 38739), (68, 38700), (73, 38688), (77, 38667), (80, 38655), (90, 38619), (101, 38595), (106, 38559), (108, 38553), (117, 38490), (122, 38472),

Gene: Mana_49 Start: 43488, Stop: 42868, Start Num: 23
Candidate Starts for Mana_49:
(Start: 23 @43488 has 332 MA's), (Start: 39 @43392 has 3 MA's), (55, 43290), (56, 43287), (57, 43281), (62, 43257), (64, 43248), (73, 43215), (78, 43188), (107, 43056), (108, 43053), (117, 42993),

Gene: Manad_50 Start: 43748, Stop: 43128, Start Num: 23
Candidate Starts for Manad_50:
(Start: 23 @43748 has 332 MA's), (Start: 39 @43652 has 3 MA's), (42, 43625), (55, 43550), (56, 43547), (57, 43541), (62, 43517), (64, 43508), (73, 43475), (78, 43448), (107, 43316), (108, 43313), (117, 43253),

Gene: Mariokart_43 Start: 36418, Stop: 35924, Start Num: 30
Candidate Starts for Mariokart_43:
(Start: 30 @36418 has 55 MA's), (49, 36313), (68, 36238), (73, 36226), (77, 36205), (80, 36193), (101, 36139), (104, 36115), (106, 36103), (108, 36097), (114, 36061), (116, 36040), (122, 36019), (133, 35938),

Gene: Marley1013_48 Start: 43994, Stop: 43449, Start Num: 27
Candidate Starts for Marley1013_48:
(Start: 27 @43994 has 52 MA's), (50, 43844), (75, 43757), (77, 43742), (80, 43730), (90, 43700), (100, 43679), (106, 43640), (108, 43634), (109, 43625), (114, 43598),

Gene: Marlia_48 Start: 43197, Stop: 42652, Start Num: 27

Candidate Starts for Marlia_48:
(Start: 27 @43197 has 52 MA's), (50, 43047), (75, 42960), (77, 42945), (80, 42933), (90, 42903), (100, 42882), (106, 42843), (108, 42837), (109, 42828), (114, 42801),

Gene: Maru_49 Start: 43431, Stop: 42811, Start Num: 23
Candidate Starts for Maru_49:
(Start: 23 @43431 has 332 MA's), (Start: 39 @43335 has 3 MA's), (55, 43233), (56, 43230), (57, 43224), (62, 43200), (64, 43191), (73, 43158), (78, 43131), (107, 42999), (108, 42996), (117, 42936),

Gene: Maskar_50 Start: 43469, Stop: 42849, Start Num: 23
Candidate Starts for Maskar_50:
(Start: 23 @43469 has 332 MA's), (Start: 39 @43373 has 3 MA's), (55, 43271), (56, 43268), (57, 43262), (62, 43238), (64, 43229), (73, 43196), (78, 43169), (107, 43037), (108, 43034), (117, 42974),

Gene: MasterPo_49 Start: 43490, Stop: 42963, Start Num: 30
Candidate Starts for MasterPo_49:
(22, 43580), (Start: 30 @43490 has 55 MA's), (80, 43247), (90, 43217), (95, 43214), (98, 43202), (100, 43196), (106, 43157), (108, 43151), (111, 43136), (129, 43004),

Gene: Matalotodo_50 Start: 43783, Stop: 43163, Start Num: 23
Candidate Starts for Matalotodo_50:
(Start: 23 @43783 has 332 MA's), (Start: 39 @43687 has 3 MA's), (55, 43585), (56, 43582), (57, 43576), (62, 43552), (64, 43543), (73, 43510), (78, 43483), (107, 43351), (108, 43348), (117, 43288),

Gene: Mcshane_49 Start: 43480, Stop: 42860, Start Num: 23
Candidate Starts for Mcshane_49:
(Start: 23 @43480 has 332 MA's), (Start: 39 @43384 has 3 MA's), (55, 43282), (56, 43279), (57, 43273), (62, 43249), (64, 43240), (73, 43207), (78, 43180), (107, 43048), (108, 43045), (117, 42985),

Gene: Mecca_49 Start: 43486, Stop: 42866, Start Num: 23
Candidate Starts for Mecca_49:
(Start: 23 @43486 has 332 MA's), (Start: 39 @43390 has 3 MA's), (55, 43288), (56, 43285), (57, 43279), (62, 43255), (64, 43246), (73, 43213), (78, 43186), (107, 43054), (108, 43051), (117, 42991),

Gene: Megamind20_50 Start: 43508, Stop: 42888, Start Num: 23
Candidate Starts for Megamind20_50:
(Start: 23 @43508 has 332 MA's), (Start: 39 @43412 has 3 MA's), (55, 43310), (56, 43307), (57, 43301), (62, 43277), (64, 43268), (73, 43235), (78, 43208), (107, 43076), (108, 43073), (117, 43013),

Gene: Megatron_51 Start: 43916, Stop: 43296, Start Num: 23
Candidate Starts for Megatron_51:
(Start: 23 @43916 has 332 MA's), (Start: 39 @43820 has 3 MA's), (55, 43718), (56, 43715), (57, 43709), (62, 43685), (64, 43676), (73, 43643), (78, 43616), (107, 43484), (108, 43481), (117, 43421),

Gene: Melc17_50 Start: 43778, Stop: 43158, Start Num: 23
Candidate Starts for Melc17_50:
(Start: 23 @43778 has 332 MA's), (Start: 39 @43682 has 3 MA's), (55, 43580), (56, 43577), (57, 43571), (62, 43547), (64, 43538), (73, 43505), (78, 43478), (107, 43346), (108, 43343), (117, 43283),

Gene: MelsMeow_50 Start: 43522, Stop: 42902, Start Num: 23
Candidate Starts for MelsMeow_50:
(Start: 23 @43522 has 332 MA's), (Start: 39 @43426 has 3 MA's), (55, 43324), (56, 43321), (57, 43315), (62, 43291), (64, 43282), (73, 43249), (78, 43222), (107, 43090), (108, 43087), (117, 43027),

Gene: Mesh1_50 Start: 43795, Stop: 43175, Start Num: 23
Candidate Starts for Mesh1_50:
(10, 43909), (17, 43882), (20, 43870), (Start: 23 @43795 has 332 MA's), (Start: 39 @43699 has 3 MA's), (55, 43597), (56, 43594), (57, 43588), (62, 43564), (64, 43555), (73, 43522), (78, 43495), (107, 43363), (108, 43360), (117, 43300),

Gene: Mesmerelda_49 Start: 43490, Stop: 42870, Start Num: 23
Candidate Starts for Mesmerelda_49:
(Start: 23 @43490 has 332 MA's), (Start: 39 @43394 has 3 MA's), (55, 43292), (56, 43289), (57, 43283), (62, 43259), (64, 43250), (73, 43217), (78, 43190), (107, 43058), (108, 43055), (117, 42995),

Gene: MichaelPhcott_49 Start: 43400, Stop: 42780, Start Num: 23
Candidate Starts for MichaelPhcott_49:
(Start: 23 @43400 has 332 MA's), (Start: 39 @43304 has 3 MA's), (55, 43202), (56, 43199), (57, 43193), (62, 43169), (64, 43160), (73, 43127), (78, 43100), (107, 42968), (108, 42965), (117, 42905),

Gene: Mikota_50 Start: 43766, Stop: 43146, Start Num: 23
Candidate Starts for Mikota_50:
(Start: 23 @43766 has 332 MA's), (Start: 39 @43670 has 3 MA's), (55, 43568), (56, 43565), (57, 43559), (62, 43535), (64, 43526), (73, 43493), (78, 43466), (107, 43334), (108, 43331), (117, 43271),

Gene: MiniBoss_50 Start: 43772, Stop: 43152, Start Num: 23
Candidate Starts for MiniBoss_50:
(Start: 23 @43772 has 332 MA's), (Start: 39 @43676 has 3 MA's), (55, 43574), (56, 43571), (57, 43565), (62, 43541), (64, 43532), (73, 43499), (78, 43472), (107, 43340), (108, 43337), (117, 43277),

Gene: Mischief19_52 Start: 45192, Stop: 44764, Start Num: 60
Candidate Starts for Mischief19_52:
(Start: 60 @45192 has 11 MA's), (76, 45123), (100, 45042), (107, 45003),

Gene: MitKao_50 Start: 43498, Stop: 42878, Start Num: 23
Candidate Starts for MitKao_50:
(Start: 23 @43498 has 332 MA's), (Start: 39 @43402 has 3 MA's), (55, 43300), (56, 43297), (57, 43291), (62, 43267), (64, 43258), (73, 43225), (78, 43198), (107, 43066), (108, 43063), (117, 43003),

Gene: Mithril_45 Start: 44338, Stop: 43727, Start Num: 23
Candidate Starts for Mithril_45:
(Start: 23 @44338 has 332 MA's), (Start: 39 @44248 has 3 MA's), (57, 44134), (62, 44110), (65, 44098), (77, 44047), (99, 43960), (103, 43936), (106, 43915), (107, 43912), (120, 43837), (121, 43834),

Gene: MmasiCarm_48 Start: 43198, Stop: 42653, Start Num: 27
Candidate Starts for MmasiCarm_48:
(Start: 27 @43198 has 52 MA's), (50, 43048), (75, 42961), (77, 42946), (80, 42934), (90, 42904), (100, 42883), (106, 42844), (108, 42838), (109, 42829), (114, 42802),

Gene: Morgushi_50 Start: 43487, Stop: 42867, Start Num: 23
Candidate Starts for Morgushi_50:
(Start: 23 @43487 has 332 MA's), (Start: 39 @43391 has 3 MA's), (55, 43289), (56, 43286), (57, 43280), (62, 43256), (64, 43247), (73, 43214), (78, 43187), (107, 43055), (108, 43052), (117, 42992),

Gene: Morrissey_30 Start: 24584, Stop: 24024, Start Num: 25

Candidate Starts for Morrissey_30:
(Start: 25 @24584 has 5 MA's), (43, 24458), (50, 24422), (68, 24347), (74, 24332), (83, 24302), (110, 24197), (117, 24149), (118, 24146), (121, 24134), (122, 24131), (131, 24062),

Gene: Mortcellus_47 Start: 43850, Stop: 43305, Start Num: 27
Candidate Starts for Mortcellus_47:
(Start: 27 @43850 has 52 MA's), (50, 43700), (75, 43613), (77, 43598), (80, 43586), (90, 43556), (100, 43535), (106, 43496), (108, 43490), (109, 43481), (114, 43454),

Gene: Morty_51 Start: 43925, Stop: 43305, Start Num: 23
Candidate Starts for Morty_51:
(Start: 23 @43925 has 332 MA's), (Start: 39 @43829 has 3 MA's), (55, 43727), (56, 43724), (57, 43718), (62, 43694), (64, 43685), (73, 43652), (78, 43625), (107, 43493), (108, 43490), (117, 43430),

Gene: Morty007_48 Start: 43994, Stop: 43449, Start Num: 27
Candidate Starts for Morty007_48:
(Start: 27 @43994 has 52 MA's), (50, 43844), (75, 43757), (77, 43742), (80, 43730), (90, 43700), (100, 43679), (106, 43640), (108, 43634), (109, 43625), (114, 43598),

Gene: Mosaic_49 Start: 43492, Stop: 42872, Start Num: 23
Candidate Starts for Mosaic_49:
(Start: 23 @43492 has 332 MA's), (Start: 39 @43396 has 3 MA's), (55, 43294), (56, 43291), (57, 43285), (62, 43261), (64, 43252), (73, 43219), (78, 43192), (107, 43060), (108, 43057), (117, 42997),

Gene: MossRose_46 Start: 38859, Stop: 38365, Start Num: 30
Candidate Starts for MossRose_46:
(Start: 30 @38859 has 55 MA's), (49, 38760), (59, 38718), (68, 38679), (73, 38667), (77, 38646), (80, 38634), (90, 38598), (101, 38574), (106, 38538), (108, 38532), (117, 38469), (122, 38451),

Gene: MrPhizzler_50 Start: 43489, Stop: 42869, Start Num: 23
Candidate Starts for MrPhizzler_50:
(Start: 23 @43489 has 332 MA's), (Start: 39 @43393 has 3 MA's), (55, 43291), (56, 43288), (57, 43282), (62, 43258), (64, 43249), (73, 43216), (78, 43189), (107, 43057), (108, 43054), (117, 42994),

Gene: Mudslide_45 Start: 44597, Stop: 43983, Start Num: 23
Candidate Starts for Mudslide_45:
(Start: 23 @44597 has 332 MA's), (Start: 39 @44504 has 3 MA's), (57, 44390), (62, 44366), (65, 44354), (77, 44303), (99, 44216), (103, 44192), (106, 44171), (107, 44168), (120, 44093),

Gene: Mulan_50 Start: 43642, Stop: 43022, Start Num: 23
Candidate Starts for Mulan_50:
(Start: 23 @43642 has 332 MA's), (Start: 39 @43546 has 3 MA's), (55, 43444), (56, 43441), (57, 43435), (62, 43411), (64, 43402), (73, 43369), (78, 43342), (107, 43210), (108, 43207), (117, 43147),

Gene: Mulaychimus_48 Start: 43180, Stop: 42635, Start Num: 27
Candidate Starts for Mulaychimus_48:
(Start: 27 @43180 has 52 MA's), (50, 43030), (75, 42943), (77, 42928), (80, 42916), (90, 42886), (100, 42865), (106, 42826), (108, 42820), (109, 42811), (114, 42784),

Gene: Murdoc_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for Murdoc_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: Mutante_49 Start: 43492, Stop: 42872, Start Num: 23
Candidate Starts for Mutante_49:
(Start: 23 @43492 has 332 MA's), (Start: 39 @43396 has 3 MA's), (55, 43294), (56, 43291), (57, 43285), (62, 43261), (64, 43252), (73, 43219), (78, 43192), (107, 43060), (108, 43057), (117, 42997),

Gene: Mysterious_48 Start: 44824, Stop: 44207, Start Num: 23
Candidate Starts for Mysterious_48:
(Start: 23 @44824 has 332 MA's), (40, 44692), (56, 44584), (62, 44554), (107, 44395), (114, 44356), (117, 44332), (123, 44281), (126, 44272),

Gene: NHagos_44 Start: 37460, Stop: 36969, Start Num: 30
Candidate Starts for NHagos_44:
(Start: 30 @37460 has 55 MA's), (68, 37280), (73, 37268), (80, 37235), (95, 37202), (98, 37190), (99, 37187), (106, 37148), (114, 37106), (122, 37064), (129, 37001),

Gene: Nacho_0051 Start: 43919, Stop: 43299, Start Num: 23
Candidate Starts for Nacho_0051:
(Start: 23 @43919 has 332 MA's), (Start: 39 @43823 has 3 MA's), (55, 43721), (56, 43718), (57, 43712), (62, 43688), (64, 43679), (73, 43646), (78, 43619), (107, 43487), (108, 43484), (117, 43424),

Gene: Nanao_44 Start: 43297, Stop: 42689, Start Num: 23
Candidate Starts for Nanao_44:
(Start: 23 @43297 has 332 MA's), (Start: 39 @43207 has 3 MA's), (57, 43093), (62, 43069), (65, 43057), (77, 43006), (99, 42919), (103, 42895), (106, 42874), (107, 42871), (121, 42793),

Gene: Nangang_49 Start: 44779, Stop: 44177, Start Num: 23
Candidate Starts for Nangang_49:
(Start: 23 @44779 has 332 MA's), (40, 44659), (56, 44551), (57, 44545), (62, 44521), (103, 44386), (106, 44365), (114, 44323), (117, 44299), (125, 44242),

Gene: Nathan_50 Start: 43817, Stop: 43197, Start Num: 23
Candidate Starts for Nathan_50:
(Start: 23 @43817 has 332 MA's), (Start: 39 @43721 has 3 MA's), (55, 43619), (56, 43616), (57, 43610), (62, 43586), (64, 43577), (73, 43544), (78, 43517), (107, 43385), (108, 43382), (117, 43322),

Gene: Nehemiah_49 Start: 44824, Stop: 44207, Start Num: 23
Candidate Starts for Nehemiah_49:
(Start: 23 @44824 has 332 MA's), (40, 44692), (56, 44584), (62, 44554), (107, 44395), (114, 44356), (117, 44332), (123, 44281), (126, 44272),

Gene: Neos5_48 Start: 44009, Stop: 43464, Start Num: 27
Candidate Starts for Neos5_48:
(Start: 27 @44009 has 52 MA's), (50, 43859), (75, 43772), (77, 43757), (80, 43745), (90, 43715), (100, 43694), (106, 43655), (108, 43649), (109, 43640), (114, 43613),

Gene: Newman_50 Start: 43790, Stop: 43170, Start Num: 23
Candidate Starts for Newman_50:
(Start: 23 @43790 has 332 MA's), (Start: 39 @43694 has 3 MA's), (42, 43667), (55, 43592), (56, 43589), (57, 43583), (62, 43559), (64, 43550), (73, 43517), (78, 43490), (107, 43358), (108, 43355), (117, 43295),

Gene: Nicole21_50 Start: 43794, Stop: 43174, Start Num: 23

Candidate Starts for Nicole21_50:
(Start: 23 @43794 has 332 MA's), (Start: 39 @43698 has 3 MA's), (55, 43596), (56, 43593), (57, 43587), (62, 43563), (64, 43554), (73, 43521), (78, 43494), (107, 43362), (108, 43359), (117, 43299),

Gene: Nigel_44 Start: 43182, Stop: 42571, Start Num: 23
Candidate Starts for Nigel_44:
(Start: 23 @43182 has 332 MA's), (Start: 39 @43092 has 3 MA's), (55, 42987), (57, 42978), (62, 42954), (65, 42942), (87, 42849), (99, 42804), (103, 42780), (106, 42759), (107, 42756), (118, 42690), (121, 42678),

Gene: Nozo_48 Start: 43974, Stop: 43429, Start Num: 27
Candidate Starts for Nozo_48:
(Start: 27 @43974 has 52 MA's), (45, 43845), (50, 43824), (75, 43737), (77, 43722), (80, 43710), (90, 43680), (100, 43659), (106, 43620), (108, 43614), (109, 43605), (114, 43578),

Gene: Numberten_50 Start: 43785, Stop: 43165, Start Num: 23
Candidate Starts for Numberten_50:
(Start: 23 @43785 has 332 MA's), (Start: 39 @43689 has 3 MA's), (55, 43587), (56, 43584), (57, 43578), (62, 43554), (64, 43545), (73, 43512), (78, 43485), (107, 43353), (108, 43350), (117, 43290),

Gene: Nyala_49 Start: 43484, Stop: 42864, Start Num: 23
Candidate Starts for Nyala_49:
(Start: 23 @43484 has 332 MA's), (Start: 39 @43388 has 3 MA's), (55, 43286), (56, 43283), (57, 43277), (62, 43253), (64, 43244), (73, 43211), (78, 43184), (107, 43052), (108, 43049), (117, 42989),

Gene: OSmaximus_51 Start: 43958, Stop: 43338, Start Num: 23
Candidate Starts for OSmaximus_51:
(Start: 23 @43958 has 332 MA's), (Start: 39 @43862 has 3 MA's), (55, 43760), (56, 43757), (57, 43751), (62, 43727), (64, 43718), (73, 43685), (78, 43658), (107, 43526), (108, 43523), (117, 43463),

Gene: Obutu_48 Start: 43198, Stop: 42653, Start Num: 27
Candidate Starts for Obutu_48:
(Start: 27 @43198 has 52 MA's), (50, 43048), (75, 42961), (77, 42946), (80, 42934), (90, 42904), (100, 42883), (106, 42844), (108, 42838), (109, 42829), (114, 42802),

Gene: Olak_49 Start: 43487, Stop: 42867, Start Num: 23
Candidate Starts for Olak_49:
(Start: 23 @43487 has 332 MA's), (Start: 39 @43391 has 3 MA's), (55, 43289), (56, 43286), (57, 43280), (62, 43256), (64, 43247), (73, 43214), (78, 43187), (107, 43055), (108, 43052), (117, 42992),

Gene: Oline_49 Start: 43347, Stop: 42727, Start Num: 23
Candidate Starts for Oline_49:
(Start: 23 @43347 has 332 MA's), (Start: 39 @43251 has 3 MA's), (55, 43149), (56, 43146), (57, 43140), (62, 43116), (64, 43107), (73, 43074), (78, 43047), (107, 42915), (108, 42912), (117, 42852),

Gene: Olive_50 Start: 43774, Stop: 43154, Start Num: 23
Candidate Starts for Olive_50:
(Start: 23 @43774 has 332 MA's), (Start: 39 @43678 has 3 MA's), (55, 43576), (56, 43573), (57, 43567), (62, 43543), (64, 43534), (73, 43501), (78, 43474), (107, 43342), (108, 43339), (117, 43279),

Gene: OliverWalter_50 Start: 43796, Stop: 43176, Start Num: 23
Candidate Starts for OliverWalter_50:

(Start: 23 @43796 has 332 MA's), (Start: 39 @43700 has 3 MA's), (55, 43598), (56, 43595), (57, 43589), (62, 43565), (64, 43556), (73, 43523), (78, 43496), (107, 43364), (108, 43361), (117, 43301),

Gene: Olivio_47 Start: 43067, Stop: 42522, Start Num: 27
Candidate Starts for Olivio_47:
(Start: 27 @43067 has 52 MA's), (50, 42917), (75, 42830), (77, 42815), (80, 42803), (90, 42773), (100, 42752), (106, 42713), (108, 42707), (109, 42698), (114, 42671),

Gene: Omniscient_50 Start: 43793, Stop: 43173, Start Num: 23
Candidate Starts for Omniscient_50:
(Start: 23 @43793 has 332 MA's), (Start: 39 @43697 has 3 MA's), (55, 43595), (56, 43592), (57, 43586), (62, 43562), (64, 43553), (73, 43520), (78, 43493), (107, 43361), (108, 43358), (117, 43298),

Gene: OneBrain_51 Start: 43486, Stop: 42866, Start Num: 23
Candidate Starts for OneBrain_51:
(Start: 23 @43486 has 332 MA's), (Start: 39 @43390 has 3 MA's), (55, 43288), (56, 43285), (57, 43279), (62, 43255), (64, 43246), (73, 43213), (78, 43186), (107, 43054), (108, 43051), (117, 42991),

Gene: Oosterbaan_50 Start: 43781, Stop: 43161, Start Num: 23
Candidate Starts for Oosterbaan_50:
(Start: 23 @43781 has 332 MA's), (Start: 39 @43685 has 3 MA's), (55, 43583), (56, 43580), (57, 43574), (62, 43550), (64, 43541), (73, 43508), (78, 43481), (107, 43349), (108, 43346), (117, 43286),

Gene: Opia_49 Start: 43484, Stop: 42945, Start Num: 30
Candidate Starts for Opia_49:
(22, 43574), (Start: 30 @43484 has 55 MA's), (80, 43229), (90, 43199), (95, 43196), (98, 43184), (100, 43178), (106, 43139), (108, 43133), (111, 43118), (129, 42986), (134, 42965),

Gene: OrangeOswald_48 Start: 43215, Stop: 42670, Start Num: 27
Candidate Starts for OrangeOswald_48:
(Start: 27 @43215 has 52 MA's), (45, 43086), (50, 43065), (75, 42978), (77, 42963), (80, 42951), (90, 42921), (100, 42900), (106, 42861), (108, 42855), (109, 42846), (114, 42819),

Gene: Orfeu_49 Start: 43480, Stop: 42860, Start Num: 23
Candidate Starts for Orfeu_49:
(Start: 23 @43480 has 332 MA's), (Start: 39 @43384 has 3 MA's), (55, 43282), (56, 43279), (57, 43273), (62, 43249), (64, 43240), (73, 43207), (78, 43180), (107, 43048), (108, 43045), (117, 42985),

Gene: Orion_51 Start: 43914, Stop: 43294, Start Num: 23
Candidate Starts for Orion_51:
(Start: 23 @43914 has 332 MA's), (Start: 39 @43818 has 3 MA's), (55, 43716), (56, 43713), (57, 43707), (62, 43683), (64, 43674), (73, 43641), (78, 43614), (107, 43482), (108, 43479), (117, 43419),

Gene: Orwigg_49 Start: 43480, Stop: 42860, Start Num: 23
Candidate Starts for Orwigg_49:
(Start: 23 @43480 has 332 MA's), (Start: 39 @43384 has 3 MA's), (55, 43282), (56, 43279), (57, 43273), (62, 43249), (64, 43240), (73, 43207), (78, 43180), (107, 43048), (108, 43045), (117, 42985),

Gene: PG1_51 Start: 43927, Stop: 43307, Start Num: 23
Candidate Starts for PG1_51:
(Start: 23 @43927 has 332 MA's), (Start: 39 @43831 has 3 MA's), (55, 43729), (56, 43726), (57, 43720), (62, 43696), (64, 43687), (73, 43654), (78, 43627), (107, 43495), (108, 43492), (117, 43432),

Gene: Pacifista_49 Start: 43483, Stop: 42863, Start Num: 23
Candidate Starts for Pacifista_49:
(Start: 23 @43483 has 332 MA's), (Start: 39 @43387 has 3 MA's), (55, 43285), (56, 43282), (57, 43276), (62, 43252), (64, 43243), (73, 43210), (78, 43183), (107, 43051), (108, 43048), (117, 42988),

Gene: PallasAthena_51 Start: 43491, Stop: 42871, Start Num: 23
Candidate Starts for PallasAthena_51:
(Start: 23 @43491 has 332 MA's), (Start: 39 @43395 has 3 MA's), (55, 43293), (56, 43290), (57, 43284), (62, 43260), (64, 43251), (73, 43218), (78, 43191), (107, 43059), (108, 43056), (117, 42996),

Gene: PenguinLover67_51 Start: 45911, Stop: 45282, Start Num: 23
Candidate Starts for PenguinLover67_51:
(Start: 23 @45911 has 332 MA's), (35, 45830), (54, 45713), (56, 45701), (57, 45695), (62, 45671), (78, 45599), (87, 45563), (91, 45542), (93, 45536), (103, 45491), (106, 45470), (112, 45446), (117, 45404),

Gene: Phaedrus_46 Start: 43135, Stop: 42590, Start Num: 27
Candidate Starts for Phaedrus_46:
(Start: 27 @43135 has 52 MA's), (45, 43006), (50, 42985), (75, 42898), (77, 42883), (80, 42871), (90, 42841), (100, 42820), (106, 42781), (108, 42775), (109, 42766), (114, 42739),

Gene: Phamished_51 Start: 43934, Stop: 43314, Start Num: 23
Candidate Starts for Phamished_51:
(Start: 23 @43934 has 332 MA's), (Start: 39 @43838 has 3 MA's), (55, 43736), (56, 43733), (57, 43727), (62, 43703), (64, 43694), (73, 43661), (78, 43634), (107, 43502), (108, 43499), (117, 43439),

Gene: Phantasmagoria_49 Start: 43482, Stop: 42958, Start Num: 30
Candidate Starts for Phantasmagoria_49:
(22, 43572), (Start: 30 @43482 has 55 MA's), (80, 43242), (90, 43212), (95, 43209), (98, 43197), (100, 43191), (106, 43152), (108, 43146), (111, 43131), (129, 42999), (134, 42978),

Gene: Phareon_50 Start: 43482, Stop: 42862, Start Num: 23
Candidate Starts for Phareon_50:
(Start: 23 @43482 has 332 MA's), (Start: 39 @43386 has 3 MA's), (55, 43284), (56, 43281), (57, 43275), (62, 43251), (64, 43242), (73, 43209), (78, 43182), (107, 43050), (108, 43047), (117, 42987),

Gene: PhatCats2014_51 Start: 43931, Stop: 43311, Start Num: 23
Candidate Starts for PhatCats2014_51:
(Start: 23 @43931 has 332 MA's), (Start: 39 @43835 has 3 MA's), (55, 43733), (56, 43730), (57, 43724), (62, 43700), (64, 43691), (73, 43658), (78, 43631), (107, 43499), (108, 43496), (117, 43436),

Gene: PhatLouie_50 Start: 43785, Stop: 43165, Start Num: 23
Candidate Starts for PhatLouie_50:
(Start: 23 @43785 has 332 MA's), (Start: 39 @43689 has 3 MA's), (55, 43587), (56, 43584), (57, 43578), (62, 43554), (64, 43545), (73, 43512), (78, 43485), (107, 43353), (108, 43350), (117, 43290),

Gene: Phayeta_49 Start: 43080, Stop: 42535, Start Num: 27
Candidate Starts for Phayeta_49:
(Start: 27 @43080 has 52 MA's), (50, 42930), (75, 42843), (77, 42828), (80, 42816), (90, 42786), (100, 42765), (106, 42726), (108, 42720), (109, 42711), (114, 42684),

Gene: Phelemich_48 Start: 44823, Stop: 44206, Start Num: 23
Candidate Starts for Phelemich_48:

(Start: 23 @44823 has 332 MA's), (40, 44691), (56, 44583), (62, 44553), (107, 44394), (114, 44355), (117, 44331), (123, 44280), (126, 44271),

Gene: PhenghisKhan_49 Start: 43406, Stop: 42786, Start Num: 23
Candidate Starts for PhenghisKhan_49:
(Start: 23 @43406 has 332 MA's), (Start: 39 @43310 has 3 MA's), (55, 43208), (56, 43205), (57, 43199), (62, 43175), (64, 43166), (73, 43133), (78, 43106), (107, 42974), (108, 42971), (117, 42911),

Gene: Pherdinand_51 Start: 43943, Stop: 43323, Start Num: 23
Candidate Starts for Pherdinand_51:
(Start: 23 @43943 has 332 MA's), (Start: 39 @43847 has 3 MA's), (55, 43745), (56, 43742), (57, 43736), (62, 43712), (64, 43703), (73, 43670), (78, 43643), (107, 43511), (108, 43508), (117, 43448),

Gene: Phergie_50 Start: 43398, Stop: 42778, Start Num: 23
Candidate Starts for Phergie_50:
(Start: 23 @43398 has 332 MA's), (Start: 39 @43302 has 3 MA's), (55, 43200), (56, 43197), (57, 43191), (62, 43167), (64, 43158), (73, 43125), (78, 43098), (107, 42966), (108, 42963), (117, 42903),

Gene: Philly_47 Start: 43066, Stop: 42521, Start Num: 27
Candidate Starts for Philly_47:
(Start: 27 @43066 has 52 MA's), (45, 42937), (50, 42916), (75, 42829), (77, 42814), (80, 42802), (90, 42772), (100, 42751), (106, 42712), (108, 42706), (109, 42697), (114, 42670),

Gene: Phipps_50 Start: 43762, Stop: 43142, Start Num: 23
Candidate Starts for Phipps_50:
(Start: 23 @43762 has 332 MA's), (Start: 39 @43666 has 3 MA's), (55, 43564), (56, 43561), (57, 43555), (62, 43531), (64, 43522), (73, 43489), (78, 43462), (107, 43330), (108, 43327), (117, 43267),

Gene: Phleuron_49 Start: 43403, Stop: 42783, Start Num: 23
Candidate Starts for Phleuron_49:
(Start: 23 @43403 has 332 MA's), (Start: 39 @43307 has 3 MA's), (55, 43205), (56, 43202), (57, 43196), (62, 43172), (64, 43163), (73, 43130), (78, 43103), (107, 42971), (108, 42968), (117, 42908),

Gene: Phlyer_48 Start: 43954, Stop: 43409, Start Num: 27
Candidate Starts for Phlyer_48:
(Start: 27 @43954 has 52 MA's), (50, 43804), (75, 43717), (77, 43702), (80, 43690), (90, 43660), (100, 43639), (106, 43600), (108, 43594), (109, 43585), (114, 43558),

Gene: PhrankReynolds_48 Start: 43403, Stop: 42783, Start Num: 23
Candidate Starts for PhrankReynolds_48:
(Start: 23 @43403 has 332 MA's), (Start: 39 @43307 has 3 MA's), (55, 43205), (56, 43202), (57, 43196), (62, 43172), (64, 43163), (73, 43130), (78, 43103), (107, 42971), (108, 42968), (117, 42908),

Gene: PhrodoBaggins_50 Start: 43910, Stop: 43290, Start Num: 23
Candidate Starts for PhrodoBaggins_50:
(Start: 23 @43910 has 332 MA's), (Start: 39 @43814 has 3 MA's), (55, 43712), (56, 43709), (57, 43703), (62, 43679), (64, 43670), (73, 43637), (78, 43610), (107, 43478), (108, 43475), (117, 43415),

Gene: Phunky_50 Start: 43779, Stop: 43159, Start Num: 23
Candidate Starts for Phunky_50:
(Start: 23 @43779 has 332 MA's), (Start: 39 @43683 has 3 MA's), (55, 43581), (56, 43578), (57, 43572), (62, 43548), (64, 43539), (73, 43506), (78, 43479), (107, 43347), (108, 43344), (117, 43284),

Gene: Piglet_0050 Start: 43904, Stop: 43284, Start Num: 23
Candidate Starts for Piglet_0050:
(Start: 23 @43904 has 332 MA's), (Start: 39 @43808 has 3 MA's), (55, 43706), (56, 43703), (57, 43697), (62, 43673), (64, 43664), (73, 43631), (78, 43604), (107, 43472), (108, 43469), (117, 43409),

Gene: Pine5_41 Start: 34571, Stop: 33969, Start Num: 26
Candidate Starts for Pine5_41:
(26, 34571), (89, 34244), (97, 34223), (106, 34172), (130, 34010), (135, 33986),

Gene: PinheadLarry_50 Start: 43492, Stop: 42872, Start Num: 23
Candidate Starts for PinheadLarry_50:
(Start: 23 @43492 has 332 MA's), (Start: 39 @43396 has 3 MA's), (55, 43294), (56, 43291), (57, 43285), (62, 43261), (64, 43252), (73, 43219), (78, 43192), (107, 43060), (108, 43057), (117, 42997),

Gene: Pinkman_49 Start: 43341, Stop: 42721, Start Num: 23
Candidate Starts for Pinkman_49:
(Start: 23 @43341 has 332 MA's), (Start: 39 @43245 has 3 MA's), (55, 43143), (56, 43140), (57, 43134), (62, 43110), (64, 43101), (73, 43068), (78, 43041), (89, 42999), (107, 42909), (108, 42906), (117, 42846),

Gene: Pipefish_50 Start: 44607, Stop: 44062, Start Num: 27
Candidate Starts for Pipefish_50:
(Start: 27 @44607 has 52 MA's), (45, 44478), (50, 44457), (75, 44370), (77, 44355), (80, 44343), (90, 44313), (100, 44292), (106, 44253), (108, 44247), (109, 44238), (114, 44211),

Gene: Pipsqueak_50 Start: 43786, Stop: 43166, Start Num: 23
Candidate Starts for Pipsqueak_50:
(Start: 23 @43786 has 332 MA's), (Start: 39 @43690 has 3 MA's), (55, 43588), (56, 43585), (57, 43579), (62, 43555), (64, 43546), (73, 43513), (78, 43486), (107, 43354), (108, 43351), (117, 43291),

Gene: Placalicious_49 Start: 43479, Stop: 42859, Start Num: 23
Candidate Starts for Placalicious_49:
(Start: 23 @43479 has 332 MA's), (Start: 39 @43383 has 3 MA's), (55, 43281), (56, 43278), (57, 43272), (62, 43248), (64, 43239), (73, 43206), (78, 43179), (107, 43047), (108, 43044), (117, 42984),

Gene: Plata_50 Start: 43497, Stop: 42877, Start Num: 23
Candidate Starts for Plata_50:
(Start: 23 @43497 has 332 MA's), (Start: 39 @43401 has 3 MA's), (55, 43299), (56, 43296), (57, 43290), (62, 43266), (64, 43257), (73, 43224), (78, 43197), (107, 43065), (108, 43062), (117, 43002),

Gene: Plmatters_50 Start: 43782, Stop: 43162, Start Num: 23
Candidate Starts for Plmatters_50:
(Start: 23 @43782 has 332 MA's), (Start: 39 @43686 has 3 MA's), (55, 43584), (56, 43581), (57, 43575), (62, 43551), (64, 43542), (73, 43509), (78, 43482), (107, 43350), (108, 43347), (117, 43287),

Gene: Podrick_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for Podrick_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: Pops_50 Start: 43797, Stop: 43177, Start Num: 23
Candidate Starts for Pops_50:

(Start: 23 @43797 has 332 MA's), (Start: 39 @43701 has 3 MA's), (55, 43599), (56, 43596), (57, 43590), (62, 43566), (64, 43557), (73, 43524), (78, 43497), (107, 43365), (108, 43362), (117, 43302),

Gene: Poster_44 Start: 43298, Stop: 42690, Start Num: 23
Candidate Starts for Poster_44:
(Start: 23 @43298 has 332 MA's), (Start: 39 @43208 has 3 MA's), (57, 43094), (62, 43070), (65, 43058), (77, 43007), (99, 42920), (103, 42896), (106, 42875), (107, 42872), (121, 42794),

Gene: Potter_49 Start: 43509, Stop: 42889, Start Num: 23
Candidate Starts for Potter_49:
(Start: 23 @43509 has 332 MA's), (Start: 39 @43413 has 3 MA's), (55, 43311), (56, 43308), (57, 43302), (62, 43278), (64, 43269), (73, 43236), (78, 43209), (107, 43077), (108, 43074), (117, 43014),

Gene: Prickles_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for Prickles_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: Prince_45 Start: 44507, Stop: 43893, Start Num: 23
Candidate Starts for Prince_45:
(Start: 23 @44507 has 332 MA's), (Start: 39 @44414 has 3 MA's), (57, 44300), (62, 44276), (65, 44264), (77, 44213), (99, 44126), (103, 44102), (106, 44081), (107, 44078), (120, 44003),

Gene: PrinceCharming_49 Start: 43581, Stop: 43066, Start Num: 30
Candidate Starts for PrinceCharming_49:
(22, 43671), (Start: 30 @43581 has 55 MA's), (80, 43350), (90, 43320), (95, 43317), (98, 43305), (100, 43299), (106, 43260), (108, 43254), (111, 43239), (129, 43107),

Gene: ProfessorX_50 Start: 43774, Stop: 43154, Start Num: 23
Candidate Starts for ProfessorX_50:
(Start: 23 @43774 has 332 MA's), (Start: 39 @43678 has 3 MA's), (55, 43576), (56, 43573), (57, 43567), (62, 43543), (64, 43534), (73, 43501), (78, 43474), (107, 43342), (108, 43339), (117, 43279),

Gene: Puhltonio_50 Start: 43783, Stop: 43163, Start Num: 23
Candidate Starts for Puhltonio_50:
(Start: 23 @43783 has 332 MA's), (Start: 39 @43687 has 3 MA's), (55, 43585), (56, 43582), (57, 43576), (62, 43552), (64, 43543), (73, 43510), (78, 43483), (107, 43351), (108, 43348), (117, 43288),

Gene: Puppers_29 Start: 23497, Stop: 22922, Start Num: 25
Candidate Starts for Puppers_29:
(24, 23515), (Start: 25 @23497 has 5 MA's), (57, 23302), (83, 23203), (95, 23173), (108, 23110), (118, 23044), (119, 23038), (128, 22969), (129, 22966),

Gene: QueenBeane_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for QueenBeane_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: QueenPie_44 Start: 44416, Stop: 43805, Start Num: 23
Candidate Starts for QueenPie_44:
(Start: 23 @44416 has 332 MA's), (Start: 39 @44326 has 3 MA's), (57, 44212), (62, 44188), (65, 44176), (77, 44125), (99, 44038), (103, 44014), (106, 43993), (107, 43990), (121, 43912),

Gene: Quesadilla_51 Start: 45918, Stop: 45289, Start Num: 23
Candidate Starts for Quesadilla_51:
(Start: 23 @45918 has 332 MA's), (54, 45717), (57, 45699), (62, 45675), (93, 45540), (103, 45495), (106, 45474), (111, 45453), (117, 45408),

Gene: Quisquiliae_50 Start: 43810, Stop: 43190, Start Num: 23
Candidate Starts for Quisquiliae_50:
(Start: 23 @43810 has 332 MA's), (Start: 39 @43714 has 3 MA's), (55, 43612), (56, 43609), (57, 43603), (62, 43579), (64, 43570), (73, 43537), (78, 43510), (107, 43378), (108, 43375), (117, 43315),

Gene: Qyrzula_46 Start: 43601, Stop: 43104, Start Num: 30
Candidate Starts for Qyrzula_46:
(22, 43691), (Start: 30 @43601 has 55 MA's), (80, 43388), (90, 43358), (95, 43355), (98, 43343), (100, 43337), (106, 43298), (108, 43292), (111, 43277), (129, 43145), (134, 43124),

Gene: RagingRooster_48 Start: 43216, Stop: 42671, Start Num: 27
Candidate Starts for RagingRooster_48:
(Start: 27 @43216 has 52 MA's), (45, 43087), (50, 43066), (75, 42979), (77, 42964), (80, 42952), (90, 42922), (100, 42901), (106, 42862), (108, 42856), (109, 42847), (114, 42820),

Gene: RainyPolka_43 Start: 34205, Stop: 33777, Start Num: 60
Candidate Starts for RainyPolka_43:
(31, 34367), (33, 34364), (36, 34346), (37, 34343), (48, 34253), (Start: 60 @34205 has 11 MA's), (67, 34166), (96, 34070), (100, 34055), (107, 34013), (131, 33866),

Gene: RawrgerThat_46 Start: 44358, Stop: 43744, Start Num: 23
Candidate Starts for RawrgerThat_46:
(Start: 23 @44358 has 332 MA's), (Start: 39 @44265 has 3 MA's), (57, 44151), (62, 44127), (65, 44115), (77, 44064), (99, 43977), (103, 43953), (106, 43932), (107, 43929), (120, 43854),

Gene: Reccee_50 Start: 44884, Stop: 44279, Start Num: 23
Candidate Starts for Reccee_50:
(Start: 23 @44884 has 332 MA's), (40, 44761), (56, 44653), (57, 44647), (62, 44623), (114, 44425), (117, 44401), (125, 44344),

Gene: RedMaple_50 Start: 43924, Stop: 43304, Start Num: 23
Candidate Starts for RedMaple_50:
(Start: 23 @43924 has 332 MA's), (Start: 39 @43828 has 3 MA's), (55, 43726), (56, 43723), (57, 43717), (62, 43693), (64, 43684), (73, 43651), (78, 43624), (107, 43492), (108, 43489), (117, 43429),

Gene: RedRaider89_52 Start: 44007, Stop: 43387, Start Num: 23
Candidate Starts for RedRaider89_52:
(Start: 23 @44007 has 332 MA's), (Start: 39 @43911 has 3 MA's), (55, 43809), (56, 43806), (57, 43800), (62, 43776), (64, 43767), (73, 43734), (78, 43707), (107, 43575), (108, 43572), (117, 43512),

Gene: Renkei_44 Start: 43320, Stop: 42712, Start Num: 23
Candidate Starts for Renkei_44:
(Start: 23 @43320 has 332 MA's), (Start: 39 @43230 has 3 MA's), (57, 43116), (62, 43092), (65, 43080), (77, 43029), (99, 42942), (103, 42918), (106, 42897), (107, 42894), (121, 42816),

Gene: Reprobate_49 Start: 44828, Stop: 44211, Start Num: 23
Candidate Starts for Reprobate_49:

(Start: 23 @44828 has 332 MA's), (40, 44696), (56, 44588), (62, 44558), (107, 44399), (114, 44360), (117, 44336), (123, 44285), (126, 44276),

Gene: Rhinoforte_49 Start: 43603, Stop: 43079, Start Num: 30
Candidate Starts for Rhinoforte_49:
(22, 43693), (Start: 30 @43603 has 55 MA's), (80, 43363), (90, 43333), (95, 43330), (98, 43318), (100, 43312), (106, 43273), (108, 43267), (129, 43120),

Gene: Rich_48 Start: 44614, Stop: 44012, Start Num: 23
Candidate Starts for Rich_48:
(12, 44725), (Start: 23 @44614 has 332 MA's), (40, 44494), (56, 44386), (57, 44380), (62, 44356), (107, 44197), (114, 44158), (117, 44134), (123, 44083),

Gene: Ricotta_49 Start: 43496, Stop: 42876, Start Num: 23
Candidate Starts for Ricotta_49:
(Start: 23 @43496 has 332 MA's), (Start: 39 @43400 has 3 MA's), (55, 43298), (56, 43295), (57, 43289), (62, 43265), (64, 43256), (73, 43223), (78, 43196), (107, 43064), (108, 43061), (117, 43001),

Gene: Riggan_50 Start: 43769, Stop: 43149, Start Num: 23
Candidate Starts for Riggan_50:
(Start: 23 @43769 has 332 MA's), (Start: 39 @43673 has 3 MA's), (55, 43571), (56, 43568), (57, 43562), (62, 43538), (64, 43529), (73, 43496), (78, 43469), (107, 43337), (108, 43334), (117, 43274),

Gene: Rimu_50 Start: 43509, Stop: 42889, Start Num: 23
Candidate Starts for Rimu_50:
(Start: 23 @43509 has 332 MA's), (Start: 39 @43413 has 3 MA's), (55, 43311), (56, 43308), (57, 43302), (62, 43278), (64, 43269), (73, 43236), (78, 43209), (107, 43077), (108, 43074), (117, 43014),

Gene: Rinkes_50 Start: 45449, Stop: 44859, Start Num: 23
Candidate Starts for Rinkes_50:
(Start: 23 @45449 has 332 MA's), (38, 45347), (44, 45290), (46, 45278), (47, 45272), (54, 45245), (61, 45212), (62, 45203), (75, 45149), (78, 45128), (123, 44927), (126, 44918),

Gene: Rita130_49 Start: 44704, Stop: 44099, Start Num: 23
Candidate Starts for Rita130_49:
(Start: 23 @44704 has 332 MA's), (40, 44581), (56, 44473), (57, 44467), (62, 44443), (114, 44245), (117, 44221), (125, 44164),

Gene: Rita1961_48 Start: 43199, Stop: 42654, Start Num: 27
Candidate Starts for Rita1961_48:
(Start: 27 @43199 has 52 MA's), (50, 43049), (75, 42962), (77, 42947), (80, 42935), (90, 42905), (100, 42884), (106, 42845), (108, 42839), (109, 42830), (114, 42803),

Gene: Riverton_49 Start: 43800, Stop: 43180, Start Num: 23
Candidate Starts for Riverton_49:
(10, 43914), (17, 43887), (20, 43875), (Start: 23 @43800 has 332 MA's), (Start: 39 @43704 has 3 MA's), (55, 43602), (56, 43599), (57, 43593), (62, 43569), (64, 43560), (73, 43527), (78, 43500), (107, 43368), (108, 43365), (117, 43305),

Gene: Robyn_49 Start: 43365, Stop: 42745, Start Num: 23
Candidate Starts for Robyn_49:
(Start: 23 @43365 has 332 MA's), (Start: 39 @43269 has 3 MA's), (55, 43167), (56, 43164), (57, 43158), (62, 43134), (64, 43125), (73, 43092), (78, 43065), (107, 42933), (108, 42930), (117, 42870),

Gene: Roliet_50 Start: 43782, Stop: 43162, Start Num: 23
Candidate Starts for Roliet_50:
(Start: 23 @43782 has 332 MA's), (Start: 39 @43686 has 3 MA's), (55, 43584), (56, 43581), (57, 43575), (62, 43551), (64, 43542), (73, 43509), (78, 43482), (107, 43350), (108, 43347), (117, 43287),

Gene: RomaT_48 Start: 43989, Stop: 43444, Start Num: 27
Candidate Starts for RomaT_48:
(Start: 27 @43989 has 52 MA's), (50, 43839), (75, 43752), (77, 43737), (80, 43725), (90, 43695), (100, 43674), (106, 43635), (108, 43629), (109, 43620), (114, 43593),

Gene: Roscoe_51 Start: 44019, Stop: 43399, Start Num: 23
Candidate Starts for Roscoe_51:
(Start: 23 @44019 has 332 MA's), (Start: 39 @43923 has 3 MA's), (55, 43821), (56, 43818), (57, 43812), (62, 43788), (64, 43779), (73, 43746), (78, 43719), (107, 43587), (108, 43584), (117, 43524),

Gene: Rosebush_48 Start: 43615, Stop: 43076, Start Num: 30
Candidate Starts for Rosebush_48:
(22, 43705), (Start: 30 @43615 has 55 MA's), (80, 43360), (90, 43330), (95, 43327), (98, 43315), (100, 43309), (106, 43270), (108, 43264), (111, 43249), (129, 43117), (134, 43096),

Gene: Roy17_50 Start: 43473, Stop: 42853, Start Num: 23
Candidate Starts for Roy17_50:
(Start: 23 @43473 has 332 MA's), (Start: 39 @43377 has 3 MA's), (55, 43275), (56, 43272), (57, 43266), (62, 43242), (64, 43233), (73, 43200), (78, 43173), (107, 43041), (108, 43038), (117, 42978),

Gene: SDcharge11_50 Start: 43760, Stop: 43140, Start Num: 23
Candidate Starts for SDcharge11_50:
(Start: 23 @43760 has 332 MA's), (Start: 39 @43664 has 3 MA's), (55, 43562), (56, 43559), (57, 43553), (62, 43529), (64, 43520), (73, 43487), (78, 43460), (89, 43418), (107, 43328), (108, 43325), (117, 43265),

Gene: Sabella_48 Start: 43475, Stop: 42951, Start Num: 30
Candidate Starts for Sabella_48:
(22, 43565), (Start: 30 @43475 has 55 MA's), (80, 43235), (90, 43205), (95, 43202), (98, 43190), (100, 43184), (106, 43145), (108, 43139), (111, 43124), (129, 42992), (134, 42971),

Gene: Saguaro_51 Start: 45544, Stop: 44918, Start Num: 23
Candidate Starts for Saguaro_51:
(2, 45787), (5, 45754), (Start: 23 @45544 has 332 MA's), (54, 45355), (56, 45343), (57, 45337), (62, 45313), (73, 45268), (87, 45205), (92, 45181), (93, 45178), (101, 45151), (106, 45112), (108, 45106), (112, 45088), (117, 45046), (126, 44986),

Gene: Salete_42 Start: 34220, Stop: 33798, Start Num: 60
Candidate Starts for Salete_42:
(Start: 60 @34220 has 11 MA's), (67, 34181), (74, 34163), (82, 34127), (96, 34085), (100, 34070), (107, 34028), (131, 33881),

Gene: SallyH_51 Start: 43927, Stop: 43307, Start Num: 23
Candidate Starts for SallyH_51:
(Start: 23 @43927 has 332 MA's), (Start: 39 @43831 has 3 MA's), (55, 43729), (56, 43726), (57, 43720), (62, 43696), (64, 43687), (73, 43654), (78, 43627), (107, 43495), (108, 43492), (117, 43432),

Gene: Samaymay_50 Start: 43773, Stop: 43153, Start Num: 23
Candidate Starts for Samaymay_50:
(Start: 23 @43773 has 332 MA's), (Start: 39 @43677 has 3 MA's), (55, 43575), (56, 43572), (57, 43566), (62, 43542), (64, 43533), (73, 43500), (78, 43473), (107, 43341), (108, 43338), (117, 43278),

Gene: SassyCat97_49 Start: 43500, Stop: 42880, Start Num: 23
Candidate Starts for SassyCat97_49:
(Start: 23 @43500 has 332 MA's), (Start: 39 @43404 has 3 MA's), (55, 43302), (56, 43299), (57, 43293), (62, 43269), (64, 43260), (73, 43227), (78, 43200), (107, 43068), (108, 43065), (117, 43005),

Gene: Schadenfreude_49 Start: 43339, Stop: 42719, Start Num: 23
Candidate Starts for Schadenfreude_49:
(Start: 23 @43339 has 332 MA's), (Start: 39 @43243 has 3 MA's), (55, 43141), (56, 43138), (57, 43132), (62, 43108), (64, 43099), (73, 43066), (78, 43039), (107, 42907), (108, 42904), (117, 42844),

Gene: Schueller_49 Start: 43498, Stop: 42878, Start Num: 23
Candidate Starts for Schueller_49:
(Start: 23 @43498 has 332 MA's), (Start: 39 @43402 has 3 MA's), (55, 43300), (56, 43297), (57, 43291), (62, 43267), (64, 43258), (73, 43225), (78, 43198), (107, 43066), (108, 43063), (117, 43003),

Gene: Scoot17C_51 Start: 43916, Stop: 43296, Start Num: 23
Candidate Starts for Scoot17C_51:
(Start: 23 @43916 has 332 MA's), (Start: 39 @43820 has 3 MA's), (55, 43718), (56, 43715), (57, 43709), (62, 43685), (64, 43676), (73, 43643), (78, 43616), (107, 43484), (108, 43481), (117, 43421),

Gene: Scrick_50 Start: 43509, Stop: 42889, Start Num: 23
Candidate Starts for Scrick_50:
(Start: 23 @43509 has 332 MA's), (Start: 39 @43413 has 3 MA's), (55, 43311), (56, 43308), (57, 43302), (62, 43278), (64, 43269), (73, 43236), (78, 43209), (107, 43077), (108, 43074), (117, 43014),

Gene: Selr12_50 Start: 43512, Stop: 42892, Start Num: 23
Candidate Starts for Selr12_50:
(Start: 23 @43512 has 332 MA's), (Start: 39 @43416 has 3 MA's), (55, 43314), (56, 43311), (57, 43305), (62, 43281), (64, 43272), (73, 43239), (78, 43212), (107, 43080), (108, 43077), (117, 43017),

Gene: Serendipitous_49 Start: 44529, Stop: 43927, Start Num: 23
Candidate Starts for Serendipitous_49:
(Start: 23 @44529 has 332 MA's), (40, 44409), (56, 44301), (57, 44295), (62, 44271), (74, 44223), (78, 44199), (103, 44136), (114, 44073), (117, 44049),

Gene: Serendipity_50 Start: 43797, Stop: 43177, Start Num: 23
Candidate Starts for Serendipity_50:
(Start: 23 @43797 has 332 MA's), (Start: 39 @43701 has 3 MA's), (55, 43599), (56, 43596), (57, 43590), (62, 43566), (64, 43557), (73, 43524), (78, 43497), (107, 43365), (108, 43362), (117, 43302),

Gene: Serpentine_0050 Start: 43796, Stop: 43176, Start Num: 23
Candidate Starts for Serpentine_0050:
(Start: 23 @43796 has 332 MA's), (Start: 39 @43700 has 3 MA's), (55, 43598), (56, 43595), (57, 43589), (62, 43565), (64, 43556), (73, 43523), (78, 43496), (107, 43364), (108, 43361), (117, 43301),

Gene: ShadowBud_50 Start: 43807, Stop: 43187, Start Num: 23
Candidate Starts for ShadowBud_50:

(Start: 23 @43807 has 332 MA's), (Start: 39 @43711 has 3 MA's), (55, 43609), (56, 43606), (57, 43600), (62, 43576), (64, 43567), (73, 43534), (78, 43507), (107, 43375), (108, 43372), (117, 43312),

Gene: Shatter_43 Start: 36579, Stop: 36085, Start Num: 30
Candidate Starts for Shatter_43:
(Start: 30 @36579 has 55 MA's), (80, 36354), (104, 36276), (106, 36264), (114, 36222), (122, 36180), (133, 36099),

Gene: Sheila_50 Start: 43822, Stop: 43202, Start Num: 23
Candidate Starts for Sheila_50:
(Start: 23 @43822 has 332 MA's), (Start: 39 @43726 has 3 MA's), (55, 43624), (56, 43621), (57, 43615), (62, 43591), (64, 43582), (73, 43549), (78, 43522), (107, 43390), (108, 43387), (117, 43327),

Gene: Shenandoah_48 Start: 43188, Stop: 42643, Start Num: 27
Candidate Starts for Shenandoah_48:
(Start: 27 @43188 has 52 MA's), (45, 43059), (50, 43038), (75, 42951), (77, 42936), (80, 42924), (90, 42894), (100, 42873), (106, 42834), (108, 42828), (109, 42819), (114, 42792),

Gene: Shenyu_49 Start: 44779, Stop: 44177, Start Num: 23
Candidate Starts for Shenyu_49:
(Start: 23 @44779 has 332 MA's), (40, 44659), (56, 44551), (57, 44545), (62, 44521), (103, 44386), (106, 44365), (114, 44323), (117, 44299), (125, 44242),

Gene: ShiVal_50 Start: 43780, Stop: 43160, Start Num: 23
Candidate Starts for ShiVal_50:
(Start: 23 @43780 has 332 MA's), (Start: 39 @43684 has 3 MA's), (55, 43582), (56, 43579), (57, 43573), (62, 43549), (64, 43540), (73, 43507), (78, 43480), (107, 43348), (108, 43345), (117, 43285),

Gene: Sigman_51 Start: 43907, Stop: 43287, Start Num: 23
Candidate Starts for Sigman_51:
(Start: 23 @43907 has 332 MA's), (Start: 39 @43811 has 3 MA's), (55, 43709), (56, 43706), (57, 43700), (62, 43676), (64, 43667), (73, 43634), (78, 43607), (107, 43475), (108, 43472), (117, 43412),

Gene: SilverBell_50 Start: 43802, Stop: 43182, Start Num: 23
Candidate Starts for SilverBell_50:
(9, 43916), (16, 43889), (19, 43877), (Start: 23 @43802 has 332 MA's), (Start: 39 @43706 has 3 MA's), (55, 43604), (56, 43601), (57, 43595), (62, 43571), (64, 43562), (73, 43529), (78, 43502), (107, 43370), (108, 43367), (117, 43307),

Gene: Simielle_49 Start: 43466, Stop: 42846, Start Num: 23
Candidate Starts for Simielle_49:
(Start: 23 @43466 has 332 MA's), (Start: 39 @43370 has 3 MA's), (55, 43268), (56, 43265), (57, 43259), (62, 43235), (64, 43226), (73, 43193), (78, 43166), (107, 43034), (108, 43031), (117, 42971),

Gene: SirBeauregard_50 Start: 43479, Stop: 42859, Start Num: 23
Candidate Starts for SirBeauregard_50:
(Start: 23 @43479 has 332 MA's), (Start: 39 @43383 has 3 MA's), (55, 43281), (56, 43278), (57, 43272), (62, 43248), (64, 43239), (73, 43206), (78, 43179), (107, 43047), (108, 43044), (117, 42984),

Gene: SirJeffery_49 Start: 44703, Stop: 44098, Start Num: 23
Candidate Starts for SirJeffery_49:
(Start: 23 @44703 has 332 MA's), (40, 44580), (56, 44472), (57, 44466), (62, 44442), (114, 44244), (117, 44220), (125, 44163),

Gene: Sisko_43 Start: 37419, Stop: 36922, Start Num: 30
Candidate Starts for Sisko_43:
(Start: 30 @37419 has 55 MA's), (68, 37236), (73, 37224), (77, 37203), (80, 37191), (106, 37101), (108, 37095), (114, 37059), (116, 37038), (122, 37017),

Gene: Skippy_50 Start: 43767, Stop: 43147, Start Num: 23
Candidate Starts for Skippy_50:
(Start: 23 @43767 has 332 MA's), (Start: 39 @43671 has 3 MA's), (55, 43569), (56, 43566), (57, 43560), (62, 43536), (64, 43527), (73, 43494), (78, 43467), (107, 43335), (108, 43332), (117, 43272),

Gene: Slatt_50 Start: 43793, Stop: 43173, Start Num: 23
Candidate Starts for Slatt_50:
(Start: 23 @43793 has 332 MA's), (Start: 39 @43697 has 3 MA's), (55, 43595), (56, 43592), (57, 43586), (62, 43562), (64, 43553), (73, 43520), (78, 43493), (107, 43361), (108, 43358), (117, 43298),

Gene: SlippinJimmy_48 Start: 43981, Stop: 43436, Start Num: 27
Candidate Starts for SlippinJimmy_48:
(Start: 27 @43981 has 52 MA's), (50, 43831), (75, 43744), (77, 43729), (80, 43717), (90, 43687), (100, 43666), (106, 43627), (108, 43621), (109, 43612), (114, 43585),

Gene: Soile_50 Start: 43496, Stop: 42876, Start Num: 23
Candidate Starts for Soile_50:
(Start: 23 @43496 has 332 MA's), (Start: 39 @43400 has 3 MA's), (55, 43298), (56, 43295), (57, 43289), (62, 43265), (64, 43256), (73, 43223), (78, 43196), (107, 43064), (108, 43061), (117, 43001),

Gene: Solosis_49 Start: 43494, Stop: 42874, Start Num: 23
Candidate Starts for Solosis_49:
(Start: 23 @43494 has 332 MA's), (Start: 39 @43398 has 3 MA's), (55, 43296), (56, 43293), (57, 43287), (62, 43263), (64, 43254), (73, 43221), (78, 43194), (107, 43062), (108, 43059), (117, 42999),

Gene: Sophia_49 Start: 43488, Stop: 42868, Start Num: 23
Candidate Starts for Sophia_49:
(Start: 23 @43488 has 332 MA's), (Start: 39 @43392 has 3 MA's), (55, 43290), (56, 43287), (57, 43281), (62, 43257), (64, 43248), (73, 43215), (78, 43188), (107, 43056), (108, 43053), (117, 42993),

Gene: Soto_50 Start: 43794, Stop: 43174, Start Num: 23
Candidate Starts for Soto_50:
(Start: 23 @43794 has 332 MA's), (Start: 39 @43698 has 3 MA's), (55, 43596), (56, 43593), (57, 43587), (62, 43563), (64, 43554), (73, 43521), (78, 43494), (89, 43452), (107, 43362), (108, 43359), (117, 43299),

Gene: Sour_48 Start: 41266, Stop: 40751, Start Num: 29
Candidate Starts for Sour_48:
(Start: 29 @41266 has 1 MA's), (Start: 30 @41257 has 55 MA's), (68, 41065), (73, 41053), (80, 41020), (95, 40987), (101, 40966), (106, 40930), (114, 40888), (122, 40846), (131, 40777),

Gene: Spartan300_50 Start: 43779, Stop: 43159, Start Num: 23
Candidate Starts for Spartan300_50:
(Start: 23 @43779 has 332 MA's), (Start: 39 @43683 has 3 MA's), (55, 43581), (56, 43578), (57, 43572), (62, 43548), (64, 43539), (73, 43506), (78, 43479), (107, 43347), (108, 43344), (117, 43284),

Gene: Squid_50 Start: 43500, Stop: 42880, Start Num: 23

Candidate Starts for Squid_50:
(Start: 23 @43500 has 332 MA's), (Start: 39 @43404 has 3 MA's), (55, 43302), (56, 43299), (57, 43293), (62, 43269), (64, 43260), (73, 43227), (78, 43200), (107, 43068), (108, 43065), (117, 43005),

Gene: Squiggle_50 Start: 43503, Stop: 42883, Start Num: 23
Candidate Starts for Squiggle_50:
(Start: 23 @43503 has 332 MA's), (Start: 39 @43407 has 3 MA's), (55, 43305), (56, 43302), (57, 43296), (62, 43272), (64, 43263), (73, 43230), (78, 43203), (107, 43071), (108, 43068), (117, 43008),

Gene: StAugustine_64 Start: 52426, Stop: 51896, Start Num: 39
Candidate Starts for StAugustine_64:
(Start: 39 @52426 has 3 MA's), (57, 52306), (62, 52282), (70, 52249), (79, 52213), (86, 52186), (87, 52183), (94, 52153), (95, 52150), (106, 52093), (129, 51946),

Gene: Stinger_44 Start: 42875, Stop: 42267, Start Num: 23
Candidate Starts for Stinger_44:
(7, 43013), (11, 42983), (14, 42968), (Start: 23 @42875 has 332 MA's), (Start: 39 @42785 has 3 MA's), (57, 42671), (62, 42647), (65, 42635), (99, 42497), (103, 42473), (105, 42461), (106, 42452), (107, 42449), (121, 42371),

Gene: StinkyVeggy_50 Start: 44848, Stop: 44249, Start Num: 23
Candidate Starts for StinkyVeggy_50:
(12, 44956), (Start: 23 @44848 has 332 MA's), (40, 44731), (56, 44623), (57, 44617), (62, 44593), (103, 44458), (114, 44395), (117, 44371), (125, 44314),

Gene: Struggle_49 Start: 43335, Stop: 42715, Start Num: 23
Candidate Starts for Struggle_49:
(Start: 23 @43335 has 332 MA's), (Start: 39 @43239 has 3 MA's), (55, 43137), (56, 43134), (57, 43128), (62, 43104), (64, 43095), (73, 43062), (78, 43035), (89, 42993), (107, 42903), (108, 42900), (117, 42840),

Gene: Suffolk_50 Start: 43784, Stop: 43164, Start Num: 23
Candidate Starts for Suffolk_50:
(Start: 23 @43784 has 332 MA's), (Start: 39 @43688 has 3 MA's), (55, 43586), (56, 43583), (57, 43577), (62, 43553), (64, 43544), (73, 43511), (78, 43484), (107, 43352), (108, 43349), (117, 43289),

Gene: Suigeneris_50 Start: 44705, Stop: 44103, Start Num: 23
Candidate Starts for Suigeneris_50:
(12, 44816), (Start: 23 @44705 has 332 MA's), (40, 44585), (56, 44477), (57, 44471), (62, 44447), (114, 44249), (117, 44225),

Gene: Surely_50 Start: 43790, Stop: 43170, Start Num: 23
Candidate Starts for Surely_50:
(Start: 23 @43790 has 332 MA's), (Start: 39 @43694 has 3 MA's), (55, 43592), (56, 43589), (57, 43583), (62, 43559), (64, 43550), (73, 43517), (78, 43490), (107, 43358), (108, 43355), (117, 43295),

Gene: SwainyDoc_48 Start: 43211, Stop: 42666, Start Num: 27
Candidate Starts for SwainyDoc_48:
(Start: 27 @43211 has 52 MA's), (50, 43061), (75, 42974), (77, 42959), (80, 42947), (90, 42917), (100, 42896), (106, 42857), (108, 42851), (109, 42842), (114, 42815),

Gene: Swiphy_50 Start: 43785, Stop: 43165, Start Num: 23
Candidate Starts for Swiphy_50:

(Start: 23 @43785 has 332 MA's), (Start: 39 @43689 has 3 MA's), (55, 43587), (56, 43584), (57, 43578), (62, 43554), (64, 43545), (73, 43512), (78, 43485), (107, 43353), (108, 43350), (117, 43290),

Gene: Swish_51 Start: 43929, Stop: 43309, Start Num: 23
Candidate Starts for Swish_51:
(Start: 23 @43929 has 332 MA's), (Start: 39 @43833 has 3 MA's), (55, 43731), (56, 43728), (57, 43722), (62, 43698), (64, 43689), (73, 43656), (78, 43629), (107, 43497), (108, 43494), (117, 43434),

Gene: SynergyX_48 Start: 43216, Stop: 42671, Start Num: 27
Candidate Starts for SynergyX_48:
(Start: 27 @43216 has 52 MA's), (45, 43087), (50, 43066), (75, 42979), (77, 42964), (80, 42952), (90, 42922), (100, 42901), (106, 42862), (108, 42856), (109, 42847), (114, 42820),

Gene: TA17A_50 Start: 43465, Stop: 42941, Start Num: 30
Candidate Starts for TA17A_50:
(22, 43555), (Start: 30 @43465 has 55 MA's), (80, 43225), (90, 43195), (95, 43192), (98, 43180), (100, 43174), (106, 43135), (108, 43129), (111, 43114), (129, 42982), (134, 42961),

Gene: TP1604_42 Start: 34223, Stop: 33801, Start Num: 60
Candidate Starts for TP1604_42:
(Start: 60 @34223 has 11 MA's), (67, 34184), (74, 34166), (82, 34130), (96, 34088), (100, 34073), (107, 34031), (131, 33884),

Gene: TPA2_56 Start: 43487, Stop: 42981, Start Num: 30
Candidate Starts for TPA2_56:
(Start: 30 @43487 has 55 MA's), (68, 43298), (73, 43286), (98, 43211), (106, 43166), (114, 43124),

Gene: TallGrassMM_50 Start: 43403, Stop: 42783, Start Num: 23
Candidate Starts for TallGrassMM_50:
(Start: 23 @43403 has 332 MA's), (Start: 39 @43307 has 3 MA's), (55, 43205), (56, 43202), (57, 43196), (62, 43172), (64, 43163), (73, 43130), (78, 43103), (107, 42971), (108, 42968), (117, 42908),

Gene: Telesworld_49 Start: 43482, Stop: 42862, Start Num: 23
Candidate Starts for Telesworld_49:
(Start: 23 @43482 has 332 MA's), (Start: 39 @43386 has 3 MA's), (55, 43284), (56, 43281), (57, 43275), (62, 43251), (64, 43242), (73, 43209), (78, 43182), (107, 43050), (108, 43047), (117, 42987),

Gene: Thonko_48 Start: 41869, Stop: 41228, Start Num: 23
Candidate Starts for Thonko_48:
(Start: 23 @41869 has 332 MA's), (32, 41794), (35, 41782), (41, 41749), (49, 41677), (54, 41659), (55, 41650), (56, 41647), (57, 41641), (62, 41617), (78, 41545), (88, 41506), (93, 41485), (106, 41419), (112, 41395), (122, 41335), (123, 41302), (126, 41293), (133, 41254),

Gene: Thora_50 Start: 43789, Stop: 43169, Start Num: 23
Candidate Starts for Thora_50:
(Start: 23 @43789 has 332 MA's), (Start: 39 @43693 has 3 MA's), (55, 43591), (56, 43588), (57, 43582), (62, 43558), (64, 43549), (73, 43516), (78, 43489), (107, 43357), (108, 43354), (117, 43294),

Gene: ThreeOh3D2_51 Start: 43922, Stop: 43302, Start Num: 23
Candidate Starts for ThreeOh3D2_51:
(Start: 23 @43922 has 332 MA's), (Start: 39 @43826 has 3 MA's), (55, 43724), (56, 43721), (57, 43715), (62, 43691), (64, 43682), (73, 43649), (78, 43622), (107, 43490), (108, 43487), (117, 43427),

Gene: Thunderbird_49 Start: 43490, Stop: 42870, Start Num: 23
Candidate Starts for Thunderbird_49:
(Start: 23 @43490 has 332 MA's), (Start: 39 @43394 has 3 MA's), (55, 43292), (56, 43289), (57, 43283), (62, 43259), (64, 43250), (73, 43217), (78, 43190), (107, 43058), (108, 43055), (117, 42995),

Gene: Timmi_49 Start: 43489, Stop: 42869, Start Num: 23
Candidate Starts for Timmi_49:
(Start: 23 @43489 has 332 MA's), (Start: 39 @43393 has 3 MA's), (55, 43291), (56, 43288), (57, 43282), (62, 43258), (64, 43249), (73, 43216), (78, 43189), (107, 43057), (108, 43054), (117, 42994),

Gene: Tinciduntsolum_50 Start: 43627, Stop: 43088, Start Num: 30
Candidate Starts for Tinciduntsolum_50:
(22, 43717), (Start: 30 @43627 has 55 MA's), (80, 43372), (90, 43342), (95, 43339), (98, 43327), (100, 43321), (106, 43282), (108, 43276), (111, 43261), (129, 43129),

Gene: TinyTerror_48 Start: 43201, Stop: 42656, Start Num: 27
Candidate Starts for TinyTerror_48:
(Start: 27 @43201 has 52 MA's), (50, 43051), (75, 42964), (77, 42949), (80, 42937), (90, 42907), (100, 42886), (106, 42847), (108, 42841), (109, 42832), (114, 42805),

Gene: TomBombadil_50 Start: 43774, Stop: 43154, Start Num: 23
Candidate Starts for TomBombadil_50:
(Start: 23 @43774 has 332 MA's), (Start: 39 @43678 has 3 MA's), (55, 43576), (56, 43573), (57, 43567), (62, 43543), (64, 43534), (73, 43501), (78, 43474), (107, 43342), (108, 43339), (117, 43279),

Gene: Tomlarah_50 Start: 43777, Stop: 43157, Start Num: 23
Candidate Starts for Tomlarah_50:
(Start: 23 @43777 has 332 MA's), (Start: 39 @43681 has 3 MA's), (55, 43579), (56, 43576), (57, 43570), (62, 43546), (64, 43537), (73, 43504), (78, 43477), (107, 43345), (108, 43342), (117, 43282),

Gene: Toni_49 Start: 43481, Stop: 42861, Start Num: 23
Candidate Starts for Toni_49:
(Start: 23 @43481 has 332 MA's), (Start: 39 @43385 has 3 MA's), (55, 43283), (56, 43280), (57, 43274), (62, 43250), (64, 43241), (73, 43208), (78, 43181), (107, 43049), (108, 43046), (117, 42986),

Gene: TooFast2Furius_53 Start: 44019, Stop: 43399, Start Num: 23
Candidate Starts for TooFast2Furius_53:
(Start: 23 @44019 has 332 MA's), (Start: 39 @43923 has 3 MA's), (55, 43821), (56, 43818), (57, 43812), (62, 43788), (64, 43779), (73, 43746), (78, 43719), (107, 43587), (108, 43584), (117, 43524),

Gene: Tooj_50 Start: 43856, Stop: 43236, Start Num: 23
Candidate Starts for Tooj_50:
(Start: 23 @43856 has 332 MA's), (Start: 39 @43760 has 3 MA's), (55, 43658), (56, 43655), (57, 43649), (62, 43625), (64, 43616), (73, 43583), (78, 43556), (107, 43424), (108, 43421), (117, 43361),

Gene: TraderJ_46 Start: 38891, Stop: 38397, Start Num: 30
Candidate Starts for TraderJ_46:
(Start: 30 @38891 has 55 MA's), (49, 38792), (59, 38750), (68, 38711), (73, 38699), (77, 38678), (80, 38666), (90, 38630), (101, 38606), (106, 38570), (108, 38564), (117, 38501), (122, 38483),

Gene: Tres_49 Start: 43478, Stop: 42954, Start Num: 30
Candidate Starts for Tres_49:

(22, 43568), (Start: 30 @43478 has 55 MA's), (80, 43238), (90, 43208), (95, 43205), (98, 43193), (100, 43187), (106, 43148), (108, 43142), (111, 43127), (129, 42995), (134, 42974),

Gene: Triad_50 Start: 42660, Stop: 42040, Start Num: 23
Candidate Starts for Triad_50:
(Start: 23 @42660 has 332 MA's), (Start: 39 @42564 has 3 MA's), (55, 42462), (56, 42459), (57, 42453), (62, 42429), (64, 42420), (73, 42387), (78, 42360), (107, 42228), (108, 42225), (117, 42165),

Gene: Trine_28 Start: 23072, Stop: 22572, Start Num: 39
Candidate Starts for Trine_28:
(28, 23123), (Start: 39 @23072 has 3 MA's), (53, 22973), (100, 22802), (116, 22700), (117, 22697), (132, 22604),

Gene: True_49 Start: 43487, Stop: 42867, Start Num: 23
Candidate Starts for True_49:
(Start: 23 @43487 has 332 MA's), (Start: 39 @43391 has 3 MA's), (55, 43289), (56, 43286), (57, 43280), (62, 43256), (64, 43247), (73, 43214), (78, 43187), (107, 43055), (108, 43052), (117, 42992),

Gene: Trypo_51 Start: 43918, Stop: 43298, Start Num: 23
Candidate Starts for Trypo_51:
(Start: 23 @43918 has 332 MA's), (Start: 39 @43822 has 3 MA's), (55, 43720), (56, 43717), (57, 43711), (62, 43687), (64, 43678), (73, 43645), (78, 43618), (107, 43486), (108, 43483), (117, 43423),

Gene: Tydolla_48 Start: 43950, Stop: 43405, Start Num: 27
Candidate Starts for Tydolla_48:
(Start: 27 @43950 has 52 MA's), (50, 43800), (75, 43713), (77, 43698), (80, 43686), (90, 43656), (100, 43635), (106, 43596), (108, 43590), (109, 43581), (114, 43554),

Gene: TyrionL_49 Start: 43343, Stop: 42723, Start Num: 23
Candidate Starts for TyrionL_49:
(Start: 23 @43343 has 332 MA's), (Start: 39 @43247 has 3 MA's), (55, 43145), (56, 43142), (57, 43136), (62, 43112), (64, 43103), (73, 43070), (78, 43043), (89, 43001), (107, 42911), (108, 42908), (117, 42848),

Gene: UAch1_50 Start: 43811, Stop: 43191, Start Num: 23
Candidate Starts for UAch1_50:
(Start: 23 @43811 has 332 MA's), (Start: 39 @43715 has 3 MA's), (55, 43613), (56, 43610), (57, 43604), (62, 43580), (64, 43571), (73, 43538), (78, 43511), (107, 43379), (108, 43376), (117, 43316),

Gene: UncleHowie_50 Start: 43486, Stop: 42866, Start Num: 23
Candidate Starts for UncleHowie_50:
(Start: 23 @43486 has 332 MA's), (Start: 39 @43390 has 3 MA's), (55, 43288), (56, 43285), (57, 43279), (62, 43255), (64, 43246), (73, 43213), (78, 43186), (107, 43054), (108, 43051), (117, 42991),

Gene: Usavi_50 Start: 43785, Stop: 43165, Start Num: 23
Candidate Starts for Usavi_50:
(Start: 23 @43785 has 332 MA's), (Start: 39 @43689 has 3 MA's), (55, 43587), (56, 43584), (57, 43578), (62, 43554), (64, 43545), (73, 43512), (78, 43485), (107, 43353), (108, 43350), (117, 43290),

Gene: Vaishali24_49 Start: 43457, Stop: 42837, Start Num: 23
Candidate Starts for Vaishali24_49:
(Start: 23 @43457 has 332 MA's), (Start: 39 @43361 has 3 MA's), (55, 43259), (56, 43256), (57, 43250), (62, 43226), (64, 43217), (73, 43184), (78, 43157), (107, 43025), (108, 43022), (117, 42962),

Gene: Valjean_50 Start: 43782, Stop: 43162, Start Num: 23
Candidate Starts for Valjean_50:
(Start: 23 @43782 has 332 MA's), (Start: 39 @43686 has 3 MA's), (55, 43584), (56, 43581), (57, 43575), (62, 43551), (64, 43542), (73, 43509), (78, 43482), (107, 43350), (108, 43347), (117, 43287),

Gene: Vaticameos_46 Start: 41468, Stop: 40848, Start Num: 23
Candidate Starts for Vaticameos_46:
(Start: 23 @41468 has 332 MA's), (Start: 39 @41372 has 3 MA's), (55, 41270), (56, 41267), (57, 41261), (62, 41237), (64, 41228), (73, 41195), (78, 41168), (107, 41036), (108, 41033), (117, 40973),

Gene: Veritas_49 Start: 43364, Stop: 42744, Start Num: 23
Candidate Starts for Veritas_49:
(Start: 23 @43364 has 332 MA's), (Start: 39 @43268 has 3 MA's), (55, 43166), (56, 43163), (57, 43157), (62, 43133), (64, 43124), (73, 43091), (78, 43064), (107, 42932), (108, 42929), (117, 42869),

Gene: Vic9_00048 Start: 43999, Stop: 43463, Start Num: 30
Candidate Starts for Vic9_00048:
(22, 44089), (Start: 30 @43999 has 55 MA's), (80, 43747), (90, 43717), (95, 43714), (98, 43702), (100, 43696), (106, 43657), (108, 43651), (111, 43636), (129, 43504),

Gene: Vincenzo_46 Start: 44903, Stop: 44286, Start Num: 23
Candidate Starts for Vincenzo_46:
(Start: 23 @44903 has 332 MA's), (Start: 39 @44801 has 3 MA's), (40, 44792), (52, 44714), (56, 44693), (57, 44687), (62, 44663), (78, 44594), (85, 44570), (86, 44564), (87, 44558), (91, 44540), (101, 44507), (103, 44489), (107, 44465), (108, 44462), (112, 44444), (121, 44387),

Gene: VioletZ_47 Start: 44423, Stop: 43809, Start Num: 23
Candidate Starts for VioletZ_47:
(Start: 23 @44423 has 332 MA's), (Start: 39 @44330 has 3 MA's), (57, 44216), (62, 44192), (65, 44180), (77, 44129), (99, 44042), (103, 44018), (106, 43997), (107, 43994), (120, 43919),

Gene: Virapocalypse_50 Start: 43777, Stop: 43157, Start Num: 23
Candidate Starts for Virapocalypse_50:
(Start: 23 @43777 has 332 MA's), (Start: 39 @43681 has 3 MA's), (55, 43579), (56, 43576), (57, 43570), (62, 43546), (64, 43537), (73, 43504), (78, 43477), (107, 43345), (108, 43342), (117, 43282),

Gene: Virgeve_49 Start: 43554, Stop: 42934, Start Num: 23
Candidate Starts for Virgeve_49:
(Start: 23 @43554 has 332 MA's), (Start: 39 @43458 has 3 MA's), (55, 43356), (56, 43353), (57, 43347), (62, 43323), (64, 43314), (73, 43281), (78, 43254), (107, 43122), (108, 43119), (117, 43059),

Gene: Vista_50 Start: 43787, Stop: 43167, Start Num: 23
Candidate Starts for Vista_50:
(Start: 23 @43787 has 332 MA's), (Start: 39 @43691 has 3 MA's), (55, 43589), (56, 43586), (57, 43580), (62, 43556), (64, 43547), (73, 43514), (78, 43487), (107, 43355), (108, 43352), (117, 43292),

Gene: Vivaldi_51 Start: 44222, Stop: 43602, Start Num: 23
Candidate Starts for Vivaldi_51:
(Start: 23 @44222 has 332 MA's), (Start: 39 @44126 has 3 MA's), (55, 44024), (56, 44021), (57, 44015), (62, 43991), (64, 43982), (73, 43949), (78, 43922), (107, 43790), (108, 43787), (117, 43727),

Gene: Vortex_50 Start: 43484, Stop: 42864, Start Num: 23

Candidate Starts for Vortex_50:
(Start: 23 @43484 has 332 MA's), (Start: 39 @43388 has 3 MA's), (55, 43286), (56, 43283), (57, 43277), (62, 43253), (64, 43244), (73, 43211), (78, 43184), (107, 43052), (108, 43049), (117, 42989),

Gene: Waleliano_45 Start: 44339, Stop: 43728, Start Num: 23
Candidate Starts for Waleliano_45:
(Start: 23 @44339 has 332 MA's), (Start: 39 @44249 has 3 MA's), (57, 44135), (62, 44111), (65, 44099), (77, 44048), (99, 43961), (103, 43937), (106, 43916), (107, 43913), (120, 43838), (121, 43835),

Gene: Wallhey_49 Start: 43347, Stop: 42727, Start Num: 23
Candidate Starts for Wallhey_49:
(Start: 23 @43347 has 332 MA's), (Start: 39 @43251 has 3 MA's), (55, 43149), (56, 43146), (57, 43140), (62, 43116), (64, 43107), (73, 43074), (78, 43047), (89, 43005), (107, 42915), (108, 42912), (117, 42852),

Gene: Waterdiva_50 Start: 43779, Stop: 43159, Start Num: 23
Candidate Starts for Waterdiva_50:
(Start: 23 @43779 has 332 MA's), (Start: 39 @43683 has 3 MA's), (55, 43581), (56, 43578), (57, 43572), (62, 43548), (64, 43539), (73, 43506), (78, 43479), (107, 43347), (108, 43344), (117, 43284),

Gene: Weher20_50 Start: 43778, Stop: 43158, Start Num: 23
Candidate Starts for Weher20_50:
(Start: 23 @43778 has 332 MA's), (Start: 39 @43682 has 3 MA's), (55, 43580), (56, 43577), (57, 43571), (62, 43547), (64, 43538), (73, 43505), (78, 43478), (107, 43346), (108, 43343), (117, 43283),

Gene: West99_49 Start: 43613, Stop: 43074, Start Num: 30
Candidate Starts for West99_49:
(22, 43703), (Start: 30 @43613 has 55 MA's), (80, 43358), (90, 43328), (95, 43325), (98, 43313), (100, 43307), (106, 43268), (108, 43262), (111, 43247), (129, 43115), (134, 43094),

Gene: Widow_29 Start: 23301, Stop: 22723, Start Num: 25
Candidate Starts for Widow_29:
(24, 23319), (Start: 25 @23301 has 5 MA's), (57, 23103), (83, 23004), (95, 22974), (108, 22911), (118, 22845), (119, 22839), (128, 22770), (129, 22767),

Gene: Windsor_49 Start: 43483, Stop: 42863, Start Num: 23
Candidate Starts for Windsor_49:
(Start: 23 @43483 has 332 MA's), (Start: 39 @43387 has 3 MA's), (55, 43285), (56, 43282), (57, 43276), (62, 43252), (64, 43243), (73, 43210), (78, 43183), (107, 43051), (108, 43048), (117, 42988),

Gene: Wooper_46 Start: 38897, Stop: 38403, Start Num: 30
Candidate Starts for Wooper_46:
(Start: 30 @38897 has 55 MA's), (49, 38798), (59, 38756), (68, 38717), (73, 38705), (77, 38684), (80, 38672), (90, 38636), (101, 38612), (106, 38576), (108, 38570), (117, 38507), (122, 38489),

Gene: Xavier_49 Start: 43491, Stop: 42871, Start Num: 23
Candidate Starts for Xavier_49:
(Start: 23 @43491 has 332 MA's), (Start: 39 @43395 has 3 MA's), (55, 43293), (56, 43290), (57, 43284), (62, 43260), (64, 43251), (73, 43218), (78, 43191), (107, 43059), (108, 43056), (117, 42996),

Gene: Xincheng_44 Start: 43783, Stop: 43175, Start Num: 23
Candidate Starts for Xincheng_44:

(Start: 23 @43783 has 332 MA's), (Start: 39 @43693 has 3 MA's), (55, 43588), (57, 43579), (62, 43555), (77, 43492), (99, 43405), (103, 43381), (106, 43360), (107, 43357), (120, 43282),

Gene: Xkcd426_45 Start: 40092, Stop: 39676, Start Num: 60
Candidate Starts for Xkcd426_45:
(Start: 60 @40092 has 11 MA's), (67, 40053), (69, 40047), (76, 40023), (82, 39999), (107, 39900), (131, 39753),

Gene: YDN12_43 Start: 33738, Stop: 33316, Start Num: 60
Candidate Starts for YDN12_43:
(Start: 60 @33738 has 11 MA's), (82, 33648), (95, 33609), (96, 33606), (107, 33549), (131, 33402), (136, 33372),

Gene: Yago84_43 Start: 37494, Stop: 36997, Start Num: 30
Candidate Starts for Yago84_43:
(Start: 30 @37494 has 55 MA's), (68, 37311), (73, 37299), (77, 37278), (80, 37266), (106, 37176), (108, 37170), (114, 37134), (116, 37113), (122, 37092),

Gene: Yahalom_48 Start: 43226, Stop: 42681, Start Num: 27
Candidate Starts for Yahalom_48:
(Start: 27 @43226 has 52 MA's), (50, 43076), (75, 42989), (77, 42974), (80, 42962), (90, 42932), (100, 42911), (106, 42872), (108, 42866), (109, 42857), (114, 42830),

Gene: Yeshua_46 Start: 38874, Stop: 38380, Start Num: 30
Candidate Starts for Yeshua_46:
(Start: 30 @38874 has 55 MA's), (49, 38775), (59, 38733), (68, 38694), (73, 38682), (77, 38661), (80, 38649), (90, 38613), (101, 38589), (106, 38553), (108, 38547), (117, 38484), (122, 38466),

Gene: Yinz_48 Start: 43252, Stop: 42707, Start Num: 27
Candidate Starts for Yinz_48:
(Start: 27 @43252 has 52 MA's), (45, 43123), (50, 43102), (75, 43015), (77, 43000), (80, 42988), (90, 42958), (100, 42937), (106, 42898), (108, 42892), (109, 42883), (114, 42856),

Gene: Yoshand_51 Start: 43942, Stop: 43322, Start Num: 23
Candidate Starts for Yoshand_51:
(Start: 23 @43942 has 332 MA's), (Start: 39 @43846 has 3 MA's), (55, 43744), (56, 43741), (57, 43735), (62, 43711), (64, 43702), (73, 43669), (78, 43642), (107, 43510), (108, 43507), (117, 43447),

Gene: YouGoGlencoco_50 Start: 43781, Stop: 43161, Start Num: 23
Candidate Starts for YouGoGlencoco_50:
(Start: 23 @43781 has 332 MA's), (Start: 39 @43685 has 3 MA's), (55, 43583), (56, 43580), (57, 43574), (62, 43550), (64, 43541), (73, 43508), (78, 43481), (107, 43349), (108, 43346), (117, 43286),

Gene: Zaider_51 Start: 44011, Stop: 43391, Start Num: 23
Candidate Starts for Zaider_51:
(Start: 23 @44011 has 332 MA's), (Start: 39 @43915 has 3 MA's), (55, 43813), (56, 43810), (57, 43804), (62, 43780), (64, 43771), (73, 43738), (78, 43711), (107, 43579), (108, 43576), (117, 43516),

Gene: Zelda_50 Start: 43828, Stop: 43208, Start Num: 23
Candidate Starts for Zelda_50:
(Start: 23 @43828 has 332 MA's), (Start: 39 @43732 has 3 MA's), (55, 43630), (56, 43627), (57, 43621), (62, 43597), (64, 43588), (73, 43555), (78, 43528), (107, 43396), (108, 43393), (117, 43333),

Gene: Zemanar_46 Start: 44320, Stop: 43709, Start Num: 23
Candidate Starts for Zemanar_46:
(Start: 23 @44320 has 332 MA's), (Start: 39 @44230 has 3 MA's), (57, 44116), (62, 44092), (65, 44080), (77, 44029), (99, 43942), (103, 43918), (106, 43897), (107, 43894), (120, 43819), (121, 43816),

Gene: Zenteno07_54 Start: 43624, Stop: 43007, Start Num: 23
Candidate Starts for Zenteno07_54:
(Start: 23 @43624 has 332 MA's), (47, 43423), (54, 43396), (56, 43384), (62, 43354), (103, 43216), (107, 43192), (117, 43129), (123, 43078),

Gene: Zonia_50 Start: 43798, Stop: 43178, Start Num: 23
Candidate Starts for Zonia_50:
(Start: 23 @43798 has 332 MA's), (Start: 39 @43702 has 3 MA's), (55, 43600), (56, 43597), (57, 43591), (62, 43567), (64, 43558), (73, 43525), (78, 43498), (89, 43456), (107, 43366), (108, 43363), (117, 43303),