

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 158925 Report

This analysis was run 04/28/24 on database version 559.

Pham number 158925 has 363 members, 42 are drafts.

Phages represented in each track:

- Track 1 : Gophee_31, Kailash_31, Puhltonio_31, Podrick_31, Mesh1_31, Mecca_30, Samaymay_31, Scrick_31, MitKao_31, TomBombadil_31, Bishoperium_30, Phipps_31, Craff_31, Potter_30, Xavier_30, PhrodoBaggins_30, Megatron_31, FriarPreacher_31, Vaticameos_31, Bluephacebaby_30, Kwadwo_30, CampRoach_30, Pacifista_32, Anderson_31, Harvey_31, Tomlarah_31, SassyCat97_30, Chah_32, QueenBeane_31, Telesworld_30, Omniscient_31, Banjo_30, Iridoclysis_31, Adriana_31, Beaglebox_30, Lego3393_31, Kimbrough_31, Giraffe_31, Lumine_30, Riggan_31, Nyala_30, Phareon_31, Kahve_30, Usavi_31, Gyarad_0031, YouGoGlencoco_31, True_30, Cosmolli16_30, LemonSlice_31, Mag7_30, Legolas_30, MRabcd_30, HighStump_30, HSavage_31, Phergie_30, Apizium_30, Zaider_32, LasagnaCat_31, Cher_30, Hocus_30, Veritas_30, Gwilliam_31, Skippy_31, ShiVal_31, Swiphy_32, Plmatters_31, HenryJackson_30, Charles1_31, Megamind20_31, Haleema_30, Hartsy_30, Simielle_30, Piglet_0030, Morty_31, Squid_31, CamL_31, Phunky_31, Phamished_31, Fringe_31, Weher20_31, FugateOSU_30, Numberten_31, Orfeu_30, Hamish_31, PhatLouie_31, Mosaic_30, Melc17_31, PhrankReynolds_30, Serendipity_31, Andre_31, Placalicious_30, DelRivs_30, Serpentine_0031, Haimas_31, Waterdiva_31, PhenghisKhan_30, Jillium_30, Nicole21_31, Surely_31, Slatt_31, Virapocalypse_31, Burr_30, Dati_31, BatteryCK_30, Soile_31, Orwigg_31, JangoPhett_31, DoesntMatter_31, KLucky39_31, Buckeye_31, Gareth_30, Quisquilliae_31, MichaelPhcott_30
- Track 2 : Schueller_31, Cannibal_31, Mana_30, Murdoc_31, Lasso_31, LostAndPhound_30, Emiris_31, Cobra_31, LeeLot_31, JDog_31, PinheadLarry_31, Held_31, Oosterbaan_31, Matalotodo_30, LeiMonet_31, Zelda_31, Eugenia_31, DonSanchon_30, LuckyMarjie_30, TallGrassMM_31, Mcshane_30, Dice_32, Altwerkus_30, Dione_30, Squiggle_31, Daffy_31, Vista_31, Mutante_30, Jiraiya_31, Sophia_30, Lulwa_31, Grand2040_30, Chorkpop_31, Selr12_31, Maru_30, Inchworm_31, UncleHowie_31, Childish_30, Ricotta_31, Magic8_31, Thunderbird_31, Pipsqueak_31, Fang_31
- Track 3 : Manad_30, Schadenfreude_30, Nacho_0031, Newman_31, Cornobble_30, Suffolk_31, OliverWalter_31, AbsoluteMadLad_30
- Track 4 : KingTut_22, Morgushi_31, Kwksand96_30, Durga_31, Ashraf_30, Timmi_30, AltPhacts_31, Lopsy_30, Aelin_30, Roliet_31, GeneCoco_31, Vortex_31, RedMaple_30, Longacauda_30, Pops_31, KingVeVeVe_31, Inverness_31, Basato_32, Daka_31, Brilliant_31, Etaye_31, Antonia_30, Trypo_31, Soto_31, Struggle_30, BlueHusk_31, Pinkman_30, ImtiyazSitla_30, CheetO_31, KlimbOn_31, Rimu_32, DaddyDaniels_31, MrPhizzler_30, MiniBoss_31, Prickles_31, Maskar_30,

Horchata_31, DirtJuice_31, Zonia_31, SDcharge11_31, Duggie_30, Wallhey_30

- Track 5 : Freya_30
- Track 6 : Olak_31, Sigman_31, Scoot17C_31, BlackStallion_31, UAch1_31, Lulumae_30, Orion_31, IsaacEli_31, ProfessorX_31, Hertubise_31, Badfish_31, Kloppinator_31, Thora_31, JacAttac_31, Boehler_31, Katniss_31, PhatCats2014_31, PG1_31, ABU_31, Yoshand_31, FluffyNinja_31, Toni_30, Swish_31, Roy17_31, Hetaeria_31, Kikipoo_31, Olive_31, Mulan_30, Pherdinand_31
- Track 7 : DuchessDung_29, Sheila_31, Tooj_31, Chunky_31, Colbert_31, Frankicide_31, Mikota_31, Phleuron_30, Oline_30
- Track 8 : MelsMeow_30, JakeO_30
- Track 9 : Dingo_31
- Track 10 : Robyn_30
- Track 11 : Chute_30, Fozzie_30, OSmaximus_31, Coletti_30, Windsor_30, Virgeve_30, Keitherie_31
- Track 12 : Chaelin_31
- Track 13 : Jiminy_30, Doddsville_31, Labeouficaum_30, CharlieGBrown_30, Derpp_30, TyrionL_30
- Track 14 : EmpTee_31, Spartan300_31, Valjean_31
- Track 15 : Eremos_31
- Track 16 : Roscoe_32
- Track 17 : Vaishali24_30
- Track 18 : ThreeOh3D2_31
- Track 19 : Vivaldi_31
- Track 20 : Carthage_29
- Track 21 : Solosis_30
- Track 22 : Crownjwl_31
- Track 23 : RomaT_31, Phayeta_31
- Track 24 : Nozo_31, Athena_32, Abinghost_31, Compostia_32, Baloo_31, Briakila_31, Ben11_30
- Track 25 : Rita1961_31
- Track 26 : ChaChing_31, Jackstina_28, Tydolla_31, Devonte_31, Phlyer_31, Chandler_31, LestyG_31, MmasiCarm_31, Yinz_31, RagingRooster_31, SynergyX_31, Deenasa_31, Corofin_31, HarveySr_31, Daisy_31
- Track 27 : Gervas_31, Obutu_31, Kronus_30
- Track 28 : Morty007_31, Casbah_30, Marley1013_31, Akoma_31, Gadget_32
- Track 29 : Mortcellus_30
- Track 30 : Yahalom_31
- Track 31 : Phaedruss_29
- Track 32 : SlippinJimmy_31, GlenHope_32
- Track 33 : OrangeOswald_31, Heathcliff_31
- Track 34 : Audrey_31, Philly_30
- Track 35 : Pipefish_32, Bernardo_31
- Track 36 : Kamiyu_31
- Track 37 : Neos5_31
- Track 38 : Halfpint_30
- Track 39 : VioletZ_28
- Track 40 : Nigel_26
- Track 41 : Magpie_27
- Track 42 : Hangman_28, Waleliano_28
- Track 43 : Stinger_26
- Track 44 : BrownCNA_29, Lolalove_28
- Track 45 : Frederick_28
- Track 46 : Poster_27, Nanao_27

- Track 47 : Mudslide_28, Apex_28
- Track 48 : RawrgerThat_28
- Track 49 : Mithril_28
- Track 50 : ChrisnMich_27
- Track 51 : Zemanar_29
- Track 52 : JAMaL_28
- Track 53 : Cooper_28
- Track 54 : Prince_29
- Track 55 : AlanGrant_29, Vincenzo_29
- Track 56 : Fortunato_28
- Track 57 : Hydro_28
- Track 58 : JaguarMi_28
- Track 59 : BobbyK_28
- Track 60 : Heath_27
- Track 61 : Austelle_29
- Track 62 : Reprobate_30, Phelemich_30
- Track 63 : Serendipitous_29
- Track 64 : Nangang_30, StinkyVeggy_32, DigitDog_30
- Track 65 : Rich_29
- Track 66 : Acadian_30, EastView9101_30, Donny_30, Suigeneris_30, SirJeffery_30
- Track 67 : Bae_29
- Track 68 : Mysterious_31

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

The start number called the most often in the published annotations is 5, it was called in 276 of the 321 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_31, AbsoluteMadLad_30, Acadian_30, Adriana_31, Aelin_30, AlanGrant_29, AltPhacts_31, Altwerkus_30, Anderson_31, Andre_31, Antonia_30, Apex_28, Apizium_30, Ashraf_30, Austelle_29, Badfish_31, Bae_29, Banjo_30, Basato_32, BatteryCK_30, Beaglebox_30, Bishoperium_30, BlackStallion_31, BlueHusk_31, Bluephacebaby_30, BobbyK_28, Boehler_31, Brilliant_31, BrownCNA_29, Buckeye_31, Burr_30, CamL_31, CampRoach_30, Cannibal_31, Carthage_29, Chaelin_31, Chah_32, Charles1_31, CharlieGBrown_30, CheetO_31, Cher_30, Childish_30, Chorkpop_31, ChrisnMich_27, Chunky_31, Chute_30, Cobra_31, Colbert_31, Coletti_30, Cooper_28, Cornobble_30, Cosmolli16_30, Craff_31, Crownjwl_31, DaddyDaniels_31, Daffy_31, Daka_31, Dati_31, DelRivs_30, Derpp_30, Dice_32, DigitDog_30, Dingo_31, Dione_30, DirtJuice_31, Doddsville_31, DoesntMatter_31, DonSancho_30, Donny_30, DuchessDung_29, Duggie_30, Durga_31, EastView9101_30, Emiris_31, EmpTee_31, Eremos_31, Etaye_31, Eugenia_31, Fang_31, FluffyNinja_31, Fozzie_30, Frankicide_31, Frederick_28, Freya_30, FriarPreacher_31, Fringe_31, FugateOSU_30, Gareth_30, GeneCoco_31, Giraffe_31, Gophee_31, Grand2040_30, Gwilliam_31, Gyarad_0031, HSavage_31, Haimas_31, Haleema_30, Hamish_31, Hangman_28, Hartsy_30, Harvey_31, Heath_27, Held_31, HenryJackson_30, Hertubise_31, Hetaeria_31, HighStump_30, Hocus_30, Horchata_31, Hydro_28, ImtiyazSitla_30, Inchworm_31, Inverness_31, Iridoclysis_31, IsaacEli_31, JAMaL_28, JDog_31, JacAttac_31, JaguarMi_28, JakeO_30, JangoPhett_31, Jillium_30, Jiminy_30, Jiraiya_31, KLUcky39_31,

Kahve_30, Kailash_31, Katniss_31, Keitherie_31, Kikipoo_31, Kimbrough_31, KingTut_22, KingVeVeVe_31, KlimbOn_31, Kloppinator_31, Kwadwo_30, Kwksand96_30, Labeouficaum_30, LasagnaCat_31, Lasso_31, LeeLot_31, Lego3393_31, Legolas_30, LeiMonet_31, LemonSlice_31, Lolalove_28, Longacauda_30, Lopsy_30, LostAndPhound_30, LuckyMarjie_30, Lulumae_30, Lulwa_31, Lumine_30, MRabcd_30, Mag7_30, Magic8_31, Magpie_27, Mana_30, Manad_30, Maru_30, Maskar_30, Matalotodo_30, Mcshane_30, Mecca_30, Megamind20_31, Megatron_31, Melc17_31, MelsMeow_30, Mesh1_31, MichaelPhcott_30, Mikota_31, MiniBoss_31, MitKao_31, Mithril_28, Morgushi_31, Morty_31, Mosaic_30, MrPhizzler_30, Mudslide_28, Mulan_30, Murdoc_31, Mutante_30, Mysterious_31, Nacho_0031, Nanao_27, Nangang_30, Newman_31, Nicole21_31, Nigel_26, Numberten_31, Nyala_30, OSmaximus_31, Olak_31, Oline_30, Olive_31, OliverWalter_31, Omniscient_31, Oosterbaan_31, Orfeu_30, Orion_31, Orwigg_31, PG1_31, Pacifista_32, Phamished_31, Phareon_31, PhatCats2014_31, PhatLouie_31, Phelemich_30, PhenghisKhan_30, Pherdinand_31, Phergie_30, Phipps_31, Phleuron_30, PhrankReynolds_30, PhrodoBaggins_30, Phunky_31, Piglet_0030, PinheadLarry_31, Pinkman_30, Pipsqueak_31, Placalicious_30, Plmatters_31, Podrick_31, Pops_31, Poster_27, Potter_30, Prickles_31, Prince_29, ProfessorX_31, Puhltonio_31, QueenBeane_31, Quisquillae_31, RawrgerThat_28, RedMaple_30, Reprobate_30, Rich_29, Ricotta_31, Riggan_31, Rimu_32, Robyn_30, Roliet_31, Roscoe_32, Roy17_31, SDcharge11_31, Samaymay_31, SassyCat97_30, Schadenfreude_30, Schueller_31, Scoot17C_31, Scrick_31, Selr12_31, Serendipitous_29, Serendipity_31, Serpentine_0031, Sheila_31, ShiVal_31, Sigman_31, Simielle_30, SirJeffery_30, Skippy_31, Slatt_31, Soile_31, Solosis_30, Sophia_30, Soto_31, Spartan300_31, Squid_31, Squiggle_31, Stinger_26, StinkyVeggy_32, Struggle_30, Suffolk_31, Suigeneris_30, Surely_31, Swiphy_32, Swish_31, TallGrassMM_31, Telesworld_30, Thora_31, ThreeOh3D2_31, Thunderbird_31, Timmi_30, TomBombadil_31, Tomlarah_31, Toni_30, Tooj_31, True_30, Trypo_31, TyrionL_30, UAch1_31, UncleHowie_31, Usavi_31, Vaishali24_30, Valjean_31, Vaticameos_31, Veritas_30, Vincenzo_29, VioletZ_28, Virapocalypse_31, Virgeve_30, Vista_31, Vivaldi_31, Vortex_31, Waleliano_28, Wallhey_30, Waterdiva_31, Weher20_31, Windsor_30, Xavier_30, Yoshand_31, YouGoGlencoco_31, Zaider_32, Zelda_31, Zemanar_29, Zonia_31,

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

- Fortunato_28,

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

- Abinghost_31, Akoma_31, Athena_32, Audrey_31, Baloo_31, Ben11_30, Bernardo_31, Briakila_31, Casbah_30, ChaChing_31, Chandler_31, Compostia_32, Corofin_31, Daisy_31, Deenasa_31, Devonte_31, Gadget_32, Gervas_31, GlenHope_32, Halfpint_30, HarveySr_31, Heathcliff_31, Jackstina_28, Kamiyu_31, Kronus_30, LestyG_31, Marley1013_31, MmasiCarm_31, Mortcellus_30, Morty007_31, Neos5_31, Nozo_31, Obutu_31, OrangeOswald_31, Phaedrus_29, Phayeta_31, Philly_30, Phlyer_31, Pipefish_32, RagingRooster_31, Rita1961_31, RomaT_31, SlippinJimmy_31, SynergyX_31, Tydolla_31, Yahalom_31, Yinz_31,

Summary by start number:

Start 1:

- Found in 14 of 363 (3.9%) of genes in pham
- Manual Annotations of this start: 1 of 321

- Called 7.1% of time when present
- Phage (with cluster) where this start called: Fortunato_28 (B4),

Start 4:

- Found in 47 of 363 (12.9%) of genes in pham
- Manual Annotations of this start: 43 of 321
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Abinghost_31 (B3), Akoma_31 (B3), Athena_32 (B3), Audrey_31 (B3), Baloo_31 (B3), Ben11_30 (B3), Bernardo_31 (B3), Briakila_31 (B3), Casbah_30 (B3), ChaChing_31 (B3), Chandler_31 (B3), Compostia_32 (B3), Corofin_31 (B3), Daisy_31 (B3), Deenasa_31 (B3), Devonte_31 (B3), Gadget_32 (B3), Gervas_31 (B3), GlenHope_32 (B3), Halfpint_30 (B3), HarveySr_31 (B3), Heathcliff_31 (B3), Jackstina_28 (B3), Kamiyu_31 (B3), Kronus_30 (B3), LestyG_31 (B3), Marley1013_31 (B3), MmasiCarm_31 (B3), Mortcellus_30 (B3), Morty007_31 (B3), Neos5_31 (B3), Nozo_31 (B3), Obutu_31 (B3), OrangeOswald_31 (B3), Phaedrus_29 (B3), Phayeta_31 (B3), Philly_30 (B3), Phlyer_31 (B3), Pipefish_32 (B3), RagingRooster_31 (B3), RomaT_31 (B3), SlippinJimmy_31 (B3), SynergyX_31 (B3), Tydolla_31 (B3), Yahalom_31 (B3), Yinz_31 (B3),

Start 5:

- Found in 316 of 363 (87.1%) of genes in pham
- Manual Annotations of this start: 276 of 321
- Called 99.7% of time when present
- Phage (with cluster) where this start called: ABU_31 (B1), AbsoluteMadLad_30 (B1), Acadian_30 (B5), Adriana_31 (B1), Aelin_30 (B1), AlanGrant_29 (B4), AltPhacts_31 (B1), Altwerkus_30 (B1), Anderson_31 (B1), Andre_31 (B1), Antonia_30 (B1), Apex_28 (B4), Apizium_30 (B1), Ashraf_30 (B1), Austelle_29 (B4), Badfish_31 (B1), Bae_29 (B5), Banjo_30 (B1), Basato_32 (B1), BatteryCK_30 (B1), Beaglebox_30 (B1), Bishoperium_30 (B1), BlackStallion_31 (B1), BlueHusk_31 (B1), Bluephacebaby_30 (B1), BobbyK_28 (B4), Boehler_31 (B1), Brilliant_31 (B1), BrownCNA_29 (B4), Buckeye_31 (B1), Burr_30 (B1), CamL_31 (B1), CampRoach_30 (B1), Cannibal_31 (B1), Carthage_29 (B1), Chaelin_31 (B1), Chah_32 (B1), Charles1_31 (B1), CharlieGBrown_30 (B1), CheetO_31 (B1), Cher_30 (B1), Childish_30 (B1), Chorkpop_31 (B1), ChrisnMich_27 (B4), Chunky_31 (B1), Chute_30 (B1), Cobra_31 (B1), Colbert_31 (B1), Coletti_30 (B1), Cooper_28 (B4), Cornobble_30 (B1), Cosmolli16_30 (B1), Craff_31 (B1), Crownjwl_31 (B1), DaddyDaniels_31 (B1), Daffy_31 (B1), Daka_31 (B1), Dati_31 (B1), DelRivs_30 (B1), Derpp_30 (B1), Dice_32 (B1), DigitDog_30 (B5), Dingo_31 (B1), Dione_30 (B1), DirtJuice_31 (B1), Doddsville_31 (B1), DoesntMatter_31 (B1), DonSanchon_30 (B1), Donny_30 (B5), DuchessDung_29 (B1), Duggie_30 (B1), Durga_31 (B1), EastView9101_30 (B5), Emiris_31 (B1), EmpTee_31 (B1), Eremos_31 (B1), Etaye_31 (B1), Eugenia_31 (B1), Fang_31 (B1), FluffyNinja_31 (B1), Fozzie_30 (B1), Frankicide_31 (B1), Frederick_28 (B4), Freya_30 (B1), FriarPreacher_31 (B1), Fringe_31 (B1), FugateOSU_30 (B1), Gareth_30 (B1), GeneCoco_31 (B1), Giraffe_31 (B1), Gophee_31 (B1), Grand2040_30 (B1), Gwilliam_31 (B1), Gyarad_0031 (B1), HSavage_31 (B1), Haimas_31 (B1), Haleema_30 (B1), Hamish_31 (B1), Hangman_28 (B4), Hartsy_30 (B1), Harvey_31 (B1), Heath_27 (B4), Held_31 (B1), HenryJackson_30 (B1), Hertubise_31 (B1), Hetaeria_31 (B1), HighStump_30 (B1), Hocus_30 (B1), Horchata_31 (B1), Hydro_28 (B4), ImtiyazSitla_30 (B1), Inchworm_31 (B1), Inverness_31 (B1), Iridoclysis_31 (B1), IsaacEli_31 (B1), JAMaL_28 (B4), JDog_31 (B1), JacAttac_31 (B1), JaguarMi_28 (B4), JakeO_30 (B1), JangoPhett_31 (B1), Jillium_30 (B1), Jiminy_30 (B1),

Jiraiya_31 (B1), KLUcky39_31 (B1), Kahve_30 (B1), Kailash_31 (B1), Katniss_31 (B1), Keitherie_31 (B1), Kikipoo_31 (B1), Kimbrough_31 (B1), KingTut_22 (B1), KingVeVeVe_31 (B1), KlimbOn_31 (B1), Kloppinator_31 (B1), Kwadwo_30 (B1), Kwksand96_30 (B1), Labeouficaum_30 (B1), LasagnaCat_31 (B1), Lasso_31 (B1), LeeLot_31 (B1), Lego3393_31 (B1), Legolas_30 (B1), LeiMonet_31 (B1), LemonSlice_31 (B1), Lolalove_28 (B4), Longacauda_30 (B1), Lopsy_30 (B1), LostAndPhound_30 (B1), LuckyMarjie_30 (B1), Lulumae_30 (B1), Lulwa_31 (B1), Lumine_30 (B1), MRabcd_30 (B1), Mag7_30 (B1), Magic8_31 (B1), Magpie_27 (B4), Mana_30 (B1), Manad_30 (B1), Maru_30 (B1), Maskar_30 (B1), Matalotodo_30 (B1), Mcshane_30 (B1), Mecca_30 (B1), Megamind20_31 (B1), Megatron_31 (B1), Melc17_31 (B1), MelsMeow_30 (B1), Mesh1_31 (B1), MichaelPhcott_30 (B1), Mikota_31 (B1), MiniBoss_31 (B1), MitKao_31 (B1), Mithril_28 (B4), Morgushi_31 (B1), Morty_31 (B1), Mosaic_30 (B1), MrPhizzler_30 (B1), Mudslide_28 (B4), Mulan_30 (B1), Murdoc_31 (B1), Mutante_30 (B1), Mysterious_31 (B5), Nacho_0031 (B1), Nanao_27 (B4), Nangang_30 (B5), Newman_31 (B1), Nicole21_31 (B1), Nigel_26 (B4), Numberten_31 (B1), Nyala_30 (B1), OSmaximus_31 (B1), Olak_31 (B1), Oline_30 (B1), Olive_31 (B1), OliverWalter_31 (B1), Omniscient_31 (B1), Oosterbaan_31 (B1), Orfeu_30 (B1), Orion_31 (B1), Orwigg_31 (B1), PG1_31 (B1), Pacifista_32 (B1), Phamished_31 (B1), Phareon_31 (B1), PhatCats2014_31 (B1), PhatLouie_31 (B1), Phelemich_30 (B5), Phenghiskhan_30 (B1), Pherdinand_31 (B1), Phergie_30 (B1), Phipps_31 (B1), Phleuron_30 (B1), PhrankReynolds_30 (B1), PhrodoBaggins_30 (B1), Phunky_31 (B1), Piglet_0030 (B1), PinheadLarry_31 (B1), Pinkman_30 (B1), Pipsqueak_31 (B1), Placalicious_30 (B1), Plmatters_31 (B1), Podrick_31 (B1), Pops_31 (B1), Poster_27 (B4), Potter_30 (B1), Prickles_31 (B1), Prince_29 (B4), ProfessorX_31 (B1), Puhltonio_31 (B1), QueenBeane_31 (B1), Quisquillae_31 (B1), RawrgerThat_28 (B4), RedMaple_30 (B1), Reprobate_30 (B5), Rich_29 (B5), Ricotta_31 (B1), Riggan_31 (B1), Rimu_32 (B1), Robyn_30 (B1), Roliet_31 (B1), Roscoe_32 (B1), Roy17_31 (B1), SDcharge11_31 (B1), Samaymay_31 (B1), SassyCat97_30 (B1), Schadenfreude_30 (B1), Schueller_31 (B1), Scoot17C_31 (B1), Scrick_31 (B1), Selr12_31 (B1), Serendipitous_29 (B5), Serendipity_31 (B1), Serpentine_0031 (B1), Sheila_31 (B1), ShiVal_31 (B1), Sigman_31 (B1), Simielle_30 (B1), SirJeffery_30 (B5), Skippy_31 (B1), Slatt_31 (B1), Soile_31 (B1), Solosis_30 (B1), Sophia_30 (B1), Soto_31 (B1), Spartan300_31 (B1), Squid_31 (B1), Squiggle_31 (B1), Stinger_26 (B4), StinkyVeggy_32 (B5), Struggle_30 (B1), Suffolk_31 (B1), Suigeneris_30 (B5), Surely_31 (B1), Swiphy_32 (B1), Swish_31 (B1), TallGrassMM_31 (B1), Telesworld_30 (B1), Thora_31 (B1), ThreeOh3D2_31 (B1), Thunderbird_31 (B1), Timmi_30 (B1), TomBombadil_31 (B1), Tomlarah_31 (B1), Toni_30 (B1), Tooj_31 (B1), True_30 (B1), Trypo_31 (B1), TyrionL_30 (B1), UAch1_31 (B1), UncleHowie_31 (B1), Usavi_31 (B1), Vaishali24_30 (B1), Valjean_31 (B1), Vaticameos_31 (B1), Veritas_30 (B1), Vincenzo_29 (B4), VioletZ_28 (B4), Virapocalypse_31 (B1), Virgeve_30 (B1), Vista_31 (B1), Vivaldi_31 (B1), Vortex_31 (B1), Waleliano_28 (B4), Wallhey_30 (B1), Waterdiva_31 (B1), Weher20_31 (B1), Windsor_30 (B1), Xavier_30 (B1), Yoshand_31 (B1), YouGoGlencoco_31 (B1), Zaider_32 (B1), Zelda_31 (B1), Zemanar_29 (B4), Zonia_31 (B1),

Start 7:

- Found in 44 of 363 (12.1%) of genes in pham
- Manual Annotations of this start: 1 of 321
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Rita1961_31 (B3),

Summary by clusters:

There are 4 clusters represented in this pham: B4, B5, B1, B3,

Info for manual annotations of cluster B1:

- Start number 5 was manually annotated 247 times for cluster B1.

Info for manual annotations of cluster B3:

- Start number 4 was manually annotated 43 times for cluster B3.
- Start number 7 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:

- Start number 1 was manually annotated 1 time for cluster B4.
- Start number 5 was manually annotated 21 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 5 was manually annotated 8 times for cluster B5.

Gene Information:

Gene: ABU_31 Start: 28756, Stop: 31011, Start Num: 5

Candidate Starts for ABU_31:

(Start: 5 @28756 has 276 MA's), (12, 28852), (18, 28930), (19, 28957), (27, 29056), (37, 29215), (44, 29395), (47, 29419), (55, 29509), (56, 29515), (58, 29551), (62, 29590), (64, 29599), (66, 29632), (67, 29671), (69, 29716), (73, 29767), (77, 29818), (78, 29827), (81, 29896), (85, 29971), (88, 30016), (90, 30031), (100, 30166), (104, 30220), (105, 30241), (106, 30274), (109, 30319), (112, 30373), (116, 30457), (120, 30478), (122, 30520), (123, 30559), (127, 30619), (145, 30859), (146, 30892), (147, 30895), (149, 30928), (150, 30934), (151, 30997),

Gene: Abinghost_31 Start: 28613, Stop: 30838, Start Num: 4

Candidate Starts for Abinghost_31:

(Start: 4 @28613 has 43 MA's), (Start: 7 @28628 has 1 MA's), (9, 28673), (13, 28730), (20, 28808), (25, 28877), (26, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (51, 29279), (59, 29387), (60, 29408), (67, 29501), (68, 29516), (76, 29645), (81, 29726), (85, 29801), (87, 29843), (88, 29849), (95, 29948), (100, 29999), (101, 30011), (104, 30053), (105, 30074), (108, 30128), (109, 30152), (111, 30188), (116, 30284), (118, 30293), (122, 30347), (128, 30455), (129, 30482), (133, 30524), (137, 30596), (145, 30686), (147, 30722),

Gene: AbsoluteMadLad_30 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for AbsoluteMadLad_30:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (116, 30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (146, 30901), (147, 30904), (149, 30937), (150, 30943), (151, 31006),

Gene: Acadian_30 Start: 28978, Stop: 31254, Start Num: 5

Candidate Starts for Acadian_30:

(Start: 5 @28978 has 276 MA's), (6, 28984), (8, 29026), (10, 29047), (11, 29056), (14, 29110), (16, 29131), (17, 29149), (18, 29152), (21, 29194), (22, 29200), (23, 29212), (27, 29281), (28, 29317), (37, 29440), (41, 29545), (52, 29701), (54, 29728), (57, 29779), (62, 29830), (65, 29845), (77, 30058), (80,

30094), (81, 30136), (85, 30211), (95, 30361), (98, 30385), (100, 30412), (105, 30487), (108, 30541), (116, 30700), (118, 30709), (120, 30721), (123, 30802), (124, 30805), (128, 30871), (132, 30919), (136, 30985), (145, 31102),

Gene: Adriana_31 Start: 28754, Stop: 31009, Start Num: 5

Candidate Starts for Adriana_31:

(Start: 5 @28754 has 276 MA's), (12, 28850), (18, 28928), (19, 28955), (27, 29054), (37, 29213), (44, 29393), (47, 29417), (55, 29507), (56, 29513), (58, 29549), (62, 29588), (64, 29597), (66, 29630), (67, 29669), (69, 29714), (73, 29765), (77, 29816), (78, 29825), (81, 29894), (85, 29969), (88, 30014), (90, 30029), (100, 30164), (104, 30218), (105, 30239), (106, 30272), (109, 30317), (112, 30371), (114, 30398), (116, 30455), (120, 30476), (122, 30518), (123, 30557), (127, 30617), (145, 30857), (146, 30890), (147, 30893), (149, 30926), (150, 30932), (151, 30995),

Gene: Aelin_30 Start: 28317, Stop: 30575, Start Num: 5

Candidate Starts for Aelin_30:

(Start: 5 @28317 has 276 MA's), (12, 28413), (18, 28491), (19, 28518), (27, 28620), (37, 28779), (44, 28959), (47, 28983), (56, 29079), (58, 29115), (62, 29154), (64, 29163), (66, 29196), (67, 29235), (69, 29280), (73, 29331), (77, 29382), (78, 29391), (81, 29460), (85, 29535), (88, 29580), (90, 29595), (100, 29730), (104, 29784), (105, 29805), (106, 29838), (109, 29883), (112, 29937), (114, 29964), (116, 30021), (120, 30042), (122, 30084), (123, 30123), (127, 30183), (145, 30423), (147, 30459), (149, 30492), (151, 30561),

Gene: Akoma_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for Akoma_31:

(Start: 4 @28614 has 43 MA's), (Start: 7 @28629 has 1 MA's), (9, 28674), (13, 28731), (20, 28809), (25, 28878), (26, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (51, 29280), (59, 29388), (60, 29409), (67, 29502), (68, 29517), (76, 29646), (81, 29727), (85, 29802), (87, 29844), (88, 29850), (92, 29886), (100, 30000), (101, 30012), (104, 30054), (105, 30075), (108, 30129), (109, 30153), (116, 30288), (118, 30297), (122, 30351), (128, 30459), (129, 30486), (133, 30528), (137, 30600), (145, 30690), (147, 30726),

Gene: AlanGrant_29 Start: 29686, Stop: 31983, Start Num: 5

Candidate Starts for AlanGrant_29:

(Start: 5 @29686 has 276 MA's), (Start: 7 @29701 has 1 MA's), (12, 29785), (13, 29803), (17, 29860), (27, 29989), (41, 30253), (42, 30292), (43, 30298), (44, 30328), (45, 30343), (47, 30352), (53, 30433), (54, 30436), (61, 30535), (62, 30538), (63, 30541), (65, 30553), (70, 30676), (71, 30700), (76, 30763), (80, 30802), (82, 30874), (83, 30895), (84, 30916), (85, 30931), (86, 30952), (88, 30982), (91, 31015), (92, 31018), (93, 31030), (95, 31081), (96, 31084), (97, 31102), (99, 31126), (100, 31132), (104, 31186), (105, 31207), (108, 31261), (109, 31285), (116, 31420), (117, 31426), (118, 31429), (120, 31441), (124, 31525), (133, 31660), (134, 31684), (138, 31747), (142, 31783), (143, 31816), (145, 31831), (146, 31864), (147, 31867), (151, 31969), (152, 31972),

Gene: AltPhacts_31 Start: 28743, Stop: 30998, Start Num: 5

Candidate Starts for AltPhacts_31:

(Start: 5 @28743 has 276 MA's), (12, 28839), (18, 28917), (19, 28944), (27, 29043), (37, 29202), (44, 29382), (47, 29406), (56, 29502), (58, 29538), (62, 29577), (64, 29586), (66, 29619), (67, 29658), (69, 29703), (73, 29754), (77, 29805), (78, 29814), (81, 29883), (85, 29958), (88, 30003), (90, 30018), (100, 30153), (104, 30207), (105, 30228), (106, 30261), (109, 30306), (112, 30360), (114, 30387), (116, 30444), (120, 30465), (122, 30507), (123, 30546), (127, 30606), (145, 30846), (147, 30882), (149, 30915), (151, 30984),

Gene: Altwerkus_30 Start: 28443, Stop: 30698, Start Num: 5

Candidate Starts for Altwerkus_30:

(Start: 5 @28443 has 276 MA's), (12, 28539), (18, 28617), (19, 28644), (27, 28743), (37, 28902), (44, 29082), (47, 29106), (55, 29196), (56, 29202), (58, 29238), (62, 29277), (64, 29286), (66, 29319), (67, 29358), (69, 29403), (73, 29454), (77, 29505), (78, 29514), (81, 29583), (85, 29658), (88, 29703), (90, 29718), (100, 29853), (104, 29907), (105, 29928), (106, 29961), (109, 30006), (112, 30060), (114, 30087), (116, 30144), (120, 30165), (122, 30207), (123, 30246), (127, 30306), (145, 30546), (147, 30582), (149, 30615), (151, 30684),

Gene: Anderson_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Anderson_31:

(Start: 5 @28749 has 276 MA's), (12, 28845), (18, 28923), (19, 28950), (27, 29049), (37, 29208), (44, 29388), (47, 29412), (55, 29502), (56, 29508), (58, 29544), (62, 29583), (64, 29592), (66, 29625), (67, 29664), (69, 29709), (73, 29760), (77, 29811), (78, 29820), (81, 29889), (85, 29964), (88, 30009), (90, 30024), (100, 30159), (104, 30213), (105, 30234), (106, 30267), (109, 30312), (112, 30366), (114, 30393), (116, 30450), (120, 30471), (122, 30513), (123, 30552), (127, 30612), (145, 30852), (146, 30885), (147, 30888), (149, 30921), (150, 30927), (151, 30990),

Gene: Andre_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Andre_31:

(Start: 5 @28747 has 276 MA's), (12, 28843), (18, 28921), (19, 28948), (27, 29047), (37, 29206), (44, 29386), (47, 29410), (55, 29500), (56, 29506), (58, 29542), (62, 29581), (64, 29590), (66, 29623), (67, 29662), (69, 29707), (73, 29758), (77, 29809), (78, 29818), (81, 29887), (85, 29962), (88, 30007), (90, 30022), (100, 30157), (104, 30211), (105, 30232), (106, 30265), (109, 30310), (112, 30364), (114, 30391), (116, 30448), (120, 30469), (122, 30511), (123, 30550), (127, 30610), (145, 30850), (146, 30883), (147, 30886), (149, 30919), (150, 30925), (151, 30988),

Gene: Antonia_30 Start: 28317, Stop: 30575, Start Num: 5

Candidate Starts for Antonia_30:

(Start: 5 @28317 has 276 MA's), (12, 28413), (18, 28491), (19, 28518), (27, 28620), (37, 28779), (44, 28959), (47, 28983), (56, 29079), (58, 29115), (62, 29154), (64, 29163), (66, 29196), (67, 29235), (69, 29280), (73, 29331), (77, 29382), (78, 29391), (81, 29460), (85, 29535), (88, 29580), (90, 29595), (100, 29730), (104, 29784), (105, 29805), (106, 29838), (109, 29883), (112, 29937), (114, 29964), (116, 30021), (120, 30042), (122, 30084), (123, 30123), (127, 30183), (145, 30423), (147, 30459), (149, 30492), (151, 30561),

Gene: Apex_28 Start: 29148, Stop: 31445, Start Num: 5

Candidate Starts for Apex_28:

(Start: 1 @28461 has 1 MA's), (2, 28608), (Start: 5 @29148 has 276 MA's), (12, 29247), (13, 29265), (23, 29388), (27, 29451), (31, 29532), (35, 29598), (41, 29715), (42, 29754), (45, 29805), (47, 29814), (52, 29871), (53, 29895), (54, 29898), (58, 29961), (63, 30003), (65, 30015), (69, 30126), (70, 30138), (71, 30162), (76, 30225), (82, 30336), (83, 30357), (85, 30393), (86, 30414), (92, 30480), (93, 30492), (95, 30543), (96, 30546), (97, 30564), (99, 30588), (102, 30615), (104, 30648), (105, 30669), (106, 30702), (109, 30747), (117, 30888), (118, 30891), (119, 30894), (120, 30903), (124, 30987), (132, 31101), (133, 31122), (134, 31146), (138, 31209), (141, 31239), (142, 31245), (145, 31293), (146, 31326), (147, 31329), (151, 31431), (152, 31434),

Gene: Apizium_30 Start: 28508, Stop: 30766, Start Num: 5

Candidate Starts for Apizium_30:

(Start: 5 @28508 has 276 MA's), (12, 28604), (18, 28682), (19, 28709), (27, 28811), (37, 28970), (44, 29150), (47, 29174), (55, 29264), (56, 29270), (58, 29306), (62, 29345), (64, 29354), (66, 29387), (67, 29426), (69, 29471), (73, 29522), (77, 29573), (78, 29582), (81, 29651), (85, 29726), (88, 29771), (90, 29786), (100, 29921), (104, 29975), (105, 29996), (106, 30029), (109, 30074), (112, 30128), (114, 30155), (116, 30212), (120, 30233), (122, 30275), (123, 30314), (127, 30374), (145, 30614), (146, 30647), (147, 30650), (149, 30683), (150, 30689), (151, 30752),

Gene: Ashraf_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for Ashraf_30:

(Start: 5 @28315 has 276 MA's), (12, 28411), (18, 28489), (19, 28516), (27, 28615), (37, 28774), (44, 28954), (47, 28978), (56, 29074), (58, 29110), (62, 29149), (64, 29158), (66, 29191), (67, 29230), (69, 29275), (73, 29326), (77, 29377), (78, 29386), (81, 29455), (85, 29530), (88, 29575), (90, 29590), (100, 29725), (104, 29779), (105, 29800), (106, 29833), (109, 29878), (112, 29932), (114, 29959), (116, 30016), (120, 30037), (122, 30079), (123, 30118), (127, 30178), (145, 30418), (147, 30454), (149, 30487), (151, 30556),

Gene: Athena_32 Start: 29364, Stop: 31589, Start Num: 4

Candidate Starts for Athena_32:

(Start: 4 @29364 has 43 MA's), (Start: 7 @29379 has 1 MA's), (9, 29424), (13, 29481), (20, 29559), (25, 29628), (26, 29640), (30, 29682), (32, 29718), (33, 29745), (34, 29757), (36, 29784), (39, 29874), (43, 29946), (51, 30030), (59, 30138), (60, 30159), (67, 30252), (68, 30267), (76, 30396), (81, 30477), (85, 30552), (87, 30594), (88, 30600), (95, 30699), (100, 30750), (101, 30762), (104, 30804), (105, 30825), (108, 30879), (109, 30903), (111, 30939), (116, 31035), (118, 31044), (122, 31098), (128, 31206), (129, 31233), (133, 31275), (137, 31347), (145, 31437), (147, 31473),

Gene: Audrey_31 Start: 28613, Stop: 30838, Start Num: 4

Candidate Starts for Audrey_31:

(Start: 4 @28613 has 43 MA's), (Start: 7 @28628 has 1 MA's), (9, 28673), (13, 28730), (20, 28808), (25, 28877), (26, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (51, 29279), (59, 29387), (60, 29408), (67, 29501), (68, 29516), (76, 29645), (81, 29726), (85, 29801), (88, 29849), (95, 29948), (100, 29999), (101, 30011), (104, 30053), (105, 30074), (108, 30128), (109, 30152), (111, 30188), (116, 30284), (118, 30293), (122, 30347), (128, 30455), (129, 30482), (133, 30524), (137, 30596), (145, 30686), (147, 30722),

Gene: Austelle_29 Start: 29604, Stop: 31901, Start Num: 5

Candidate Starts for Austelle_29:

(Start: 1 @28917 has 1 MA's), (2, 29064), (Start: 5 @29604 has 276 MA's), (12, 29703), (13, 29721), (23, 29844), (27, 29907), (31, 29988), (35, 30054), (41, 30171), (42, 30210), (45, 30261), (47, 30270), (52, 30327), (53, 30351), (54, 30354), (58, 30417), (63, 30459), (65, 30471), (70, 30594), (71, 30618), (76, 30681), (80, 30720), (82, 30792), (83, 30813), (85, 30849), (86, 30870), (92, 30936), (93, 30948), (95, 30999), (96, 31002), (97, 31020), (99, 31044), (102, 31071), (104, 31104), (105, 31125), (106, 31158), (109, 31203), (117, 31344), (118, 31347), (120, 31359), (124, 31443), (133, 31578), (134, 31602), (138, 31665), (141, 31695), (142, 31701), (145, 31749), (146, 31782), (147, 31785), (151, 31887), (152, 31890),

Gene: Badfish_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Badfish_31:

(Start: 5 @28778 has 276 MA's), (12, 28874), (18, 28952), (19, 28979), (27, 29078), (37, 29237), (44, 29417), (47, 29441), (55, 29531), (56, 29537), (58, 29573), (62, 29612), (64, 29621), (66, 29654), (67, 29693), (69, 29738), (73, 29789), (77, 29840), (78, 29849), (81, 29918), (85, 29993), (88, 30038), (90, 30053), (100, 30188), (104, 30242), (105, 30263), (106, 30296), (109, 30341), (112, 30395), (116, 30479), (120, 30500), (122, 30542), (123, 30581), (127, 30641), (145, 30881), (146, 30914), (147, 30917), (149, 30950), (150, 30956), (151, 31019),

Gene: Bae_29 Start: 28752, Stop: 31019, Start Num: 5

Candidate Starts for Bae_29:

(Start: 5 @28752 has 276 MA's), (6, 28758), (9, 28809), (11, 28830), (14, 28884), (15, 28896), (16, 28905), (17, 28923), (23, 28986), (41, 29319), (48, 29421), (52, 29475), (62, 29595), (65, 29610), (66, 29637), (77, 29823), (80, 29859), (81, 29901), (88, 30027), (95, 30126), (100, 30177), (108, 30306),

(109, 30330), (116, 30465), (122, 30528), (123, 30567), (124, 30570), (128, 30636), (130, 30666), (132, 30684), (136, 30750), (137, 30777), (145, 30867), (149, 30936), (151, 31005), (152, 31008),

Gene: Baloo_31 Start: 28616, Stop: 30841, Start Num: 4

Candidate Starts for Baloo_31:

(Start: 4 @28616 has 43 MA's), (Start: 7 @28631 has 1 MA's), (9, 28676), (13, 28733), (20, 28811), (25, 28880), (26, 28892), (30, 28934), (32, 28970), (33, 28997), (34, 29009), (36, 29036), (39, 29126), (43, 29198), (51, 29282), (59, 29390), (60, 29411), (67, 29504), (68, 29519), (76, 29648), (81, 29729), (85, 29804), (87, 29846), (88, 29852), (95, 29951), (100, 30002), (101, 30014), (104, 30056), (105, 30077), (108, 30131), (109, 30155), (111, 30191), (116, 30287), (118, 30296), (122, 30350), (128, 30458), (129, 30485), (133, 30527), (137, 30599), (145, 30689), (147, 30725),

Gene: Banjo_30 Start: 28454, Stop: 30709, Start Num: 5

Candidate Starts for Banjo_30:

(Start: 5 @28454 has 276 MA's), (12, 28550), (18, 28628), (19, 28655), (27, 28754), (37, 28913), (44, 29093), (47, 29117), (55, 29207), (56, 29213), (58, 29249), (62, 29288), (64, 29297), (66, 29330), (67, 29369), (69, 29414), (73, 29465), (77, 29516), (78, 29525), (81, 29594), (85, 29669), (88, 29714), (90, 29729), (100, 29864), (104, 29918), (105, 29939), (106, 29972), (109, 30017), (112, 30071), (114, 30098), (116, 30155), (120, 30176), (122, 30218), (123, 30257), (127, 30317), (145, 30557), (146, 30590), (147, 30593), (149, 30626), (150, 30632), (151, 30695),

Gene: Basato_32 Start: 28982, Stop: 31237, Start Num: 5

Candidate Starts for Basato_32:

(Start: 5 @28982 has 276 MA's), (12, 29078), (18, 29156), (19, 29183), (27, 29282), (37, 29441), (44, 29621), (47, 29645), (56, 29741), (58, 29777), (62, 29816), (64, 29825), (66, 29858), (67, 29897), (69, 29942), (73, 29993), (77, 30044), (78, 30053), (81, 30122), (85, 30197), (88, 30242), (90, 30257), (100, 30392), (104, 30446), (105, 30467), (106, 30500), (109, 30545), (112, 30599), (114, 30626), (116, 30683), (120, 30704), (122, 30746), (123, 30785), (127, 30845), (145, 31085), (147, 31121), (149, 31154), (151, 31223),

Gene: BatteryCK_30 Start: 28373, Stop: 30628, Start Num: 5

Candidate Starts for BatteryCK_30:

(Start: 5 @28373 has 276 MA's), (12, 28469), (18, 28547), (19, 28574), (27, 28673), (37, 28832), (44, 29012), (47, 29036), (55, 29126), (56, 29132), (58, 29168), (62, 29207), (64, 29216), (66, 29249), (67, 29288), (69, 29333), (73, 29384), (77, 29435), (78, 29444), (81, 29513), (85, 29588), (88, 29633), (90, 29648), (100, 29783), (104, 29837), (105, 29858), (106, 29891), (109, 29936), (112, 29990), (114, 30017), (116, 30074), (120, 30095), (122, 30137), (123, 30176), (127, 30236), (145, 30476), (146, 30509), (147, 30512), (149, 30545), (150, 30551), (151, 30614),

Gene: Beaglebox_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Beaglebox_30:

(Start: 5 @28474 has 276 MA's), (12, 28570), (18, 28648), (19, 28675), (27, 28774), (37, 28933), (44, 29113), (47, 29137), (55, 29227), (56, 29233), (58, 29269), (62, 29308), (64, 29317), (66, 29350), (67, 29389), (69, 29434), (73, 29485), (77, 29536), (78, 29545), (81, 29614), (85, 29689), (88, 29734), (90, 29749), (100, 29884), (104, 29938), (105, 29959), (106, 29992), (109, 30037), (112, 30091), (114, 30118), (116, 30175), (120, 30196), (122, 30238), (123, 30277), (127, 30337), (145, 30577), (146, 30610), (147, 30613), (149, 30646), (150, 30652), (151, 30715),

Gene: Ben11_30 Start: 28435, Stop: 30660, Start Num: 4

Candidate Starts for Ben11_30:

(Start: 4 @28435 has 43 MA's), (Start: 7 @28450 has 1 MA's), (9, 28495), (13, 28552), (20, 28630), (25, 28699), (26, 28711), (30, 28753), (32, 28789), (33, 28816), (34, 28828), (36, 28855), (39, 28945), (43, 29017), (51, 29101), (59, 29209), (60, 29230), (67, 29323), (68, 29338), (76, 29467), (81, 29548),

(85, 29623), (87, 29665), (88, 29671), (95, 29770), (100, 29821), (101, 29833), (104, 29875), (105, 29896), (108, 29950), (109, 29974), (111, 30010), (116, 30106), (118, 30115), (122, 30169), (128, 30277), (129, 30304), (133, 30346), (137, 30418), (145, 30508), (147, 30544),

Gene: Bernardo_31 Start: 28703, Stop: 30928, Start Num: 4

Candidate Starts for Bernardo_31:

(Start: 4 @28703 has 43 MA's), (9, 28763), (13, 28820), (20, 28898), (25, 28967), (26, 28979), (30, 29021), (32, 29057), (34, 29096), (36, 29123), (39, 29213), (40, 29237), (43, 29285), (51, 29369), (59, 29477), (60, 29498), (67, 29591), (68, 29606), (76, 29735), (81, 29816), (85, 29891), (87, 29933), (88, 29939), (95, 30038), (100, 30089), (101, 30101), (104, 30143), (105, 30164), (108, 30218), (109, 30242), (111, 30278), (116, 30374), (118, 30383), (122, 30437), (128, 30545), (129, 30572), (133, 30614), (137, 30686), (145, 30776), (147, 30812),

Gene: Bishoperium_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Bishoperium_30:

(Start: 5 @28463 has 276 MA's), (12, 28559), (18, 28637), (19, 28664), (27, 28763), (37, 28922), (44, 29102), (47, 29126), (55, 29216), (56, 29222), (58, 29258), (62, 29297), (64, 29306), (66, 29339), (67, 29378), (69, 29423), (73, 29474), (77, 29525), (78, 29534), (81, 29603), (85, 29678), (88, 29723), (90, 29738), (100, 29873), (104, 29927), (105, 29948), (106, 29981), (109, 30026), (112, 30080), (114, 30107), (116, 30164), (120, 30185), (122, 30227), (123, 30266), (127, 30326), (145, 30566), (146, 30599), (147, 30602), (149, 30635), (150, 30641), (151, 30704),

Gene: BlackStallion_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for BlackStallion_31:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (55, 29518), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (116, 30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (146, 30901), (147, 30904), (149, 30937), (150, 30943), (151, 31006),

Gene: BlueHusk_31 Start: 28262, Stop: 30517, Start Num: 5

Candidate Starts for BlueHusk_31:

(Start: 5 @28262 has 276 MA's), (12, 28358), (18, 28436), (19, 28463), (27, 28562), (37, 28721), (44, 28901), (47, 28925), (56, 29021), (58, 29057), (62, 29096), (64, 29105), (66, 29138), (67, 29177), (69, 29222), (73, 29273), (77, 29324), (78, 29333), (81, 29402), (85, 29477), (88, 29522), (90, 29537), (100, 29672), (104, 29726), (105, 29747), (106, 29780), (109, 29825), (112, 29879), (114, 29906), (116, 29963), (120, 29984), (122, 30026), (123, 30065), (127, 30125), (145, 30365), (147, 30401), (149, 30434), (151, 30503),

Gene: Bluephacebaby_30 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Bluephacebaby_30:

(Start: 5 @28460 has 276 MA's), (12, 28556), (18, 28634), (19, 28661), (27, 28760), (37, 28919), (44, 29099), (47, 29123), (55, 29213), (56, 29219), (58, 29255), (62, 29294), (64, 29303), (66, 29336), (67, 29375), (69, 29420), (73, 29471), (77, 29522), (78, 29531), (81, 29600), (85, 29675), (88, 29720), (90, 29735), (100, 29870), (104, 29924), (105, 29945), (106, 29978), (109, 30023), (112, 30077), (114, 30104), (116, 30161), (120, 30182), (122, 30224), (123, 30263), (127, 30323), (145, 30563), (146, 30596), (147, 30599), (149, 30632), (150, 30638), (151, 30701),

Gene: BobbyK_28 Start: 28973, Stop: 31270, Start Num: 5

Candidate Starts for BobbyK_28:

(Start: 1 @28286 has 1 MA's), (2, 28433), (Start: 5 @28973 has 276 MA's), (12, 29072), (13, 29090), (23, 29213), (27, 29276), (31, 29357), (35, 29423), (41, 29540), (42, 29579), (47, 29639), (52, 29696),

(53, 29720), (54, 29723), (58, 29786), (63, 29828), (70, 29963), (71, 29987), (76, 30050), (80, 30089), (82, 30161), (83, 30182), (85, 30218), (86, 30239), (92, 30305), (93, 30317), (95, 30368), (96, 30371), (97, 30389), (99, 30413), (102, 30440), (104, 30473), (105, 30494), (106, 30527), (109, 30572), (117, 30713), (118, 30716), (120, 30728), (124, 30812), (132, 30926), (133, 30947), (134, 30971), (138, 31034), (141, 31064), (142, 31070), (145, 31118), (146, 31151), (147, 31154), (151, 31256), (152, 31259),

Gene: Boehler_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Boehler_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Briakila_31 Start: 29378, Stop: 31603, Start Num: 4

Candidate Starts for Briakila_31:

(Start: 4 @29378 has 43 MA's), (Start: 7 @29393 has 1 MA's), (9, 29438), (13, 29495), (20, 29573), (25, 29642), (26, 29654), (30, 29696), (32, 29732), (33, 29759), (34, 29771), (36, 29798), (39, 29888), (43, 29960), (51, 30044), (59, 30152), (60, 30173), (67, 30266), (68, 30281), (76, 30410), (81, 30491), (85, 30566), (87, 30608), (88, 30614), (95, 30713), (100, 30764), (101, 30776), (104, 30818), (105, 30839), (108, 30893), (109, 30917), (111, 30953), (116, 31049), (118, 31058), (122, 31112), (128, 31220), (129, 31247), (133, 31289), (137, 31361), (145, 31451), (147, 31487),

Gene: Brilliant_31 Start: 28471, Stop: 30726, Start Num: 5

Candidate Starts for Brilliant_31:

(Start: 5 @28471 has 276 MA's), (12, 28567), (18, 28645), (19, 28672), (27, 28771), (37, 28930), (44, 29110), (47, 29134), (56, 29230), (58, 29266), (62, 29305), (64, 29314), (66, 29347), (67, 29386), (69, 29431), (73, 29482), (77, 29533), (78, 29542), (81, 29611), (85, 29686), (88, 29731), (90, 29746), (100, 29881), (104, 29935), (105, 29956), (106, 29989), (109, 30034), (112, 30088), (114, 30115), (116, 30172), (120, 30193), (122, 30235), (123, 30274), (127, 30334), (145, 30574), (147, 30610), (149, 30643), (151, 30712),

Gene: BrownCNA_29 Start: 29234, Stop: 31531, Start Num: 5

Candidate Starts for BrownCNA_29:

(Start: 1 @28547 has 1 MA's), (2, 28694), (Start: 5 @29234 has 276 MA's), (12, 29333), (13, 29351), (23, 29474), (27, 29537), (31, 29618), (35, 29684), (41, 29801), (42, 29840), (45, 29891), (47, 29900), (52, 29957), (53, 29981), (54, 29984), (58, 30047), (63, 30089), (65, 30101), (70, 30224), (71, 30248), (74, 30278), (75, 30281), (76, 30311), (82, 30422), (83, 30443), (84, 30464), (85, 30479), (86, 30500), (92, 30566), (95, 30629), (96, 30632), (97, 30650), (99, 30674), (102, 30701), (104, 30734), (105, 30755), (106, 30788), (109, 30833), (117, 30974), (120, 30989), (124, 31073), (132, 31187), (133, 31208), (134, 31232), (138, 31295), (141, 31325), (145, 31379), (146, 31412), (147, 31415), (151, 31517), (152, 31520),

Gene: Buckeye_31 Start: 28783, Stop: 31038, Start Num: 5

Candidate Starts for Buckeye_31:

(Start: 5 @28783 has 276 MA's), (12, 28879), (18, 28957), (19, 28984), (27, 29083), (37, 29242), (44, 29422), (47, 29446), (55, 29536), (56, 29542), (58, 29578), (62, 29617), (64, 29626), (66, 29659), (67, 29698), (69, 29743), (73, 29794), (77, 29845), (78, 29854), (81, 29923), (85, 29998), (88, 30043), (90, 30058), (100, 30193), (104, 30247), (105, 30268), (106, 30301), (109, 30346), (112, 30400), (114, 30427), (116, 30484), (120, 30505), (122, 30547), (123, 30586), (127, 30646), (145, 30886), (146, 30919), (147, 30922), (149, 30955), (150, 30961), (151, 31024),

Gene: Burr_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for Burr_30:

(Start: 5 @28459 has 276 MA's), (12, 28555), (18, 28633), (19, 28660), (27, 28759), (37, 28918), (44, 29098), (47, 29122), (55, 29212), (56, 29218), (58, 29254), (62, 29293), (64, 29302), (66, 29335), (67, 29374), (69, 29419), (73, 29470), (77, 29521), (78, 29530), (81, 29599), (85, 29674), (88, 29719), (90, 29734), (100, 29869), (104, 29923), (105, 29944), (106, 29977), (109, 30022), (112, 30076), (114, 30103), (116, 30160), (120, 30181), (122, 30223), (123, 30262), (127, 30322), (145, 30562), (146, 30595), (147, 30598), (149, 30631), (150, 30637), (151, 30700),

Gene: CamL_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for CamL_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (55, 29514), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (146, 30897), (147, 30900), (149, 30933), (150, 30939), (151, 31002),

Gene: CampRoach_30 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for CampRoach_30:

(Start: 5 @28751 has 276 MA's), (12, 28847), (18, 28925), (19, 28952), (27, 29051), (37, 29210), (44, 29390), (47, 29414), (55, 29504), (56, 29510), (58, 29546), (62, 29585), (64, 29594), (66, 29627), (67, 29666), (69, 29711), (73, 29762), (77, 29813), (78, 29822), (81, 29891), (85, 29966), (88, 30011), (90, 30026), (100, 30161), (104, 30215), (105, 30236), (106, 30269), (109, 30314), (112, 30368), (114, 30395), (116, 30452), (120, 30473), (122, 30515), (123, 30554), (127, 30614), (145, 30854), (146, 30887), (147, 30890), (149, 30923), (150, 30929), (151, 30992),

Gene: Cannibal_31 Start: 28744, Stop: 30999, Start Num: 5

Candidate Starts for Cannibal_31:

(Start: 5 @28744 has 276 MA's), (12, 28840), (18, 28918), (19, 28945), (27, 29044), (37, 29203), (44, 29383), (47, 29407), (55, 29497), (56, 29503), (58, 29539), (62, 29578), (64, 29587), (66, 29620), (67, 29659), (69, 29704), (73, 29755), (77, 29806), (78, 29815), (81, 29884), (85, 29959), (88, 30004), (90, 30019), (100, 30154), (104, 30208), (105, 30229), (106, 30262), (109, 30307), (112, 30361), (114, 30388), (116, 30445), (120, 30466), (122, 30508), (123, 30547), (127, 30607), (145, 30847), (147, 30883), (149, 30916), (151, 30985),

Gene: Carthage_29 Start: 27670, Stop: 29928, Start Num: 5

Candidate Starts for Carthage_29:

(Start: 5 @27670 has 276 MA's), (12, 27766), (18, 27844), (19, 27871), (27, 27973), (44, 28312), (47, 28336), (55, 28426), (56, 28432), (58, 28468), (62, 28507), (66, 28549), (67, 28588), (69, 28633), (73, 28684), (77, 28735), (78, 28744), (81, 28813), (85, 28888), (88, 28933), (90, 28948), (100, 29083), (104, 29137), (105, 29158), (106, 29191), (109, 29236), (112, 29290), (114, 29317), (116, 29374), (120, 29395), (122, 29437), (123, 29476), (127, 29536), (145, 29776), (146, 29809), (147, 29812), (149, 29845), (150, 29851), (151, 29914),

Gene: Casbah_30 Start: 28465, Stop: 30690, Start Num: 4

Candidate Starts for Casbah_30:

(Start: 4 @28465 has 43 MA's), (Start: 7 @28480 has 1 MA's), (9, 28525), (13, 28582), (20, 28660), (25, 28729), (26, 28741), (30, 28783), (32, 28819), (33, 28846), (34, 28858), (36, 28885), (39, 28975), (43, 29047), (51, 29131), (59, 29239), (60, 29260), (67, 29353), (68, 29368), (76, 29497), (81, 29578), (85, 29653), (87, 29695), (88, 29701), (92, 29737), (100, 29851), (101, 29863), (104, 29905), (105, 29926), (108, 29980), (109, 30004), (116, 30136), (118, 30145), (122, 30199), (128, 30307), (129,

30334), (133, 30376), (137, 30448), (145, 30538), (147, 30574),

Gene: ChaChing_31 Start: 28628, Stop: 30853, Start Num: 4

Candidate Starts for ChaChing_31:

(Start: 4 @28628 has 43 MA's), (Start: 7 @28643 has 1 MA's), (9, 28688), (13, 28745), (20, 28823), (25, 28892), (26, 28904), (30, 28946), (32, 28982), (33, 29009), (34, 29021), (36, 29048), (39, 29138), (43, 29210), (51, 29294), (59, 29402), (60, 29423), (67, 29516), (68, 29531), (76, 29660), (81, 29741), (85, 29816), (87, 29858), (88, 29864), (92, 29900), (100, 30014), (101, 30026), (104, 30068), (105, 30089), (108, 30143), (109, 30167), (111, 30203), (116, 30299), (118, 30308), (122, 30362), (128, 30470), (129, 30497), (133, 30539), (137, 30611), (145, 30701), (147, 30737),

Gene: Chaelin_31 Start: 28458, Stop: 30713, Start Num: 5

Candidate Starts for Chaelin_31:

(Start: 5 @28458 has 276 MA's), (12, 28554), (18, 28632), (19, 28659), (27, 28758), (37, 28917), (44, 29097), (47, 29121), (56, 29217), (58, 29253), (62, 29292), (64, 29301), (66, 29334), (67, 29373), (69, 29418), (73, 29469), (78, 29529), (81, 29598), (85, 29673), (88, 29718), (90, 29733), (100, 29868), (104, 29922), (105, 29943), (106, 29976), (109, 30021), (112, 30075), (114, 30102), (116, 30159), (120, 30180), (122, 30222), (123, 30261), (127, 30321), (145, 30561), (147, 30597), (149, 30630), (151, 30699),

Gene: Chah_32 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Chah_32:

(Start: 5 @28778 has 276 MA's), (12, 28874), (18, 28952), (19, 28979), (27, 29078), (37, 29237), (44, 29417), (47, 29441), (55, 29531), (56, 29537), (58, 29573), (62, 29612), (64, 29621), (66, 29654), (67, 29693), (69, 29738), (73, 29789), (77, 29840), (78, 29849), (81, 29918), (85, 29993), (88, 30038), (90, 30053), (100, 30188), (104, 30242), (105, 30263), (106, 30296), (109, 30341), (112, 30395), (114, 30422), (116, 30479), (120, 30500), (122, 30542), (123, 30581), (127, 30641), (145, 30881), (146, 30914), (147, 30917), (149, 30950), (150, 30956), (151, 31019),

Gene: Chandler_31 Start: 29393, Stop: 31621, Start Num: 4

Candidate Starts for Chandler_31:

(Start: 4 @29393 has 43 MA's), (Start: 7 @29408 has 1 MA's), (9, 29453), (13, 29510), (20, 29588), (25, 29657), (26, 29669), (30, 29711), (32, 29747), (33, 29774), (34, 29786), (36, 29813), (39, 29903), (43, 29975), (51, 30059), (59, 30167), (60, 30188), (67, 30281), (68, 30296), (76, 30425), (81, 30506), (85, 30581), (87, 30623), (88, 30629), (92, 30665), (100, 30779), (101, 30791), (104, 30833), (105, 30854), (108, 30908), (109, 30932), (111, 30968), (116, 31067), (118, 31076), (122, 31130), (128, 31238), (129, 31265), (133, 31307), (137, 31379), (145, 31469), (147, 31505),

Gene: Charles1_31 Start: 28746, Stop: 31001, Start Num: 5

Candidate Starts for Charles1_31:

(Start: 5 @28746 has 276 MA's), (12, 28842), (18, 28920), (19, 28947), (27, 29046), (37, 29205), (44, 29385), (47, 29409), (55, 29499), (56, 29505), (58, 29541), (62, 29580), (64, 29589), (66, 29622), (67, 29661), (69, 29706), (73, 29757), (77, 29808), (78, 29817), (81, 29886), (85, 29961), (88, 30006), (90, 30021), (100, 30156), (104, 30210), (105, 30231), (106, 30264), (109, 30309), (112, 30363), (114, 30390), (116, 30447), (120, 30468), (122, 30510), (123, 30549), (127, 30609), (145, 30849), (146, 30882), (147, 30885), (149, 30918), (150, 30924), (151, 30987),

Gene: CharlieGBrown_30 Start: 28335, Stop: 30590, Start Num: 5

Candidate Starts for CharlieGBrown_30:

(Start: 5 @28335 has 276 MA's), (12, 28431), (18, 28509), (19, 28536), (27, 28635), (37, 28794), (44, 28974), (47, 28998), (56, 29094), (58, 29130), (62, 29169), (64, 29178), (66, 29211), (67, 29250), (69, 29295), (73, 29346), (78, 29406), (81, 29475), (85, 29550), (88, 29595), (90, 29610), (100, 29745), (104, 29799), (105, 29820), (106, 29853), (109, 29898), (112, 29952), (114, 29979), (116, 30036),

(120, 30057), (122, 30099), (123, 30138), (127, 30198), (145, 30438), (146, 30471), (147, 30474),
(149, 30507), (151, 30576),

Gene: CheetO_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for CheetO_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (114, 30404), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (147, 30899), (149, 30932), (151, 31001),

Gene: Cher_30 Start: 28483, Stop: 30738, Start Num: 5

Candidate Starts for Cher_30:

(Start: 5 @28483 has 276 MA's), (12, 28579), (18, 28657), (19, 28684), (27, 28783), (37, 28942), (44, 29122), (47, 29146), (55, 29236), (56, 29242), (58, 29278), (62, 29317), (64, 29326), (66, 29359), (67, 29398), (69, 29443), (73, 29494), (77, 29545), (78, 29554), (81, 29623), (85, 29698), (88, 29743), (90, 29758), (100, 29893), (104, 29947), (105, 29968), (106, 30001), (109, 30046), (112, 30100), (114, 30127), (116, 30184), (120, 30205), (122, 30247), (123, 30286), (127, 30346), (145, 30586), (146, 30619), (147, 30622), (149, 30655), (150, 30661), (151, 30724),

Gene: Childish_30 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Childish_30:

(Start: 5 @28486 has 276 MA's), (12, 28582), (18, 28660), (19, 28687), (27, 28786), (37, 28945), (44, 29125), (47, 29149), (55, 29239), (56, 29245), (58, 29281), (62, 29320), (64, 29329), (66, 29362), (67, 29401), (69, 29446), (73, 29497), (77, 29548), (78, 29557), (81, 29626), (85, 29701), (88, 29746), (90, 29761), (100, 29896), (104, 29950), (105, 29971), (106, 30004), (109, 30049), (112, 30103), (114, 30130), (116, 30187), (120, 30208), (122, 30250), (123, 30289), (127, 30349), (145, 30589), (147, 30625), (149, 30658), (151, 30727),

Gene: Chorkpop_31 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Chorkpop_31:

(Start: 5 @28482 has 276 MA's), (12, 28578), (18, 28656), (19, 28683), (27, 28782), (37, 28941), (44, 29121), (47, 29145), (55, 29235), (56, 29241), (58, 29277), (62, 29316), (64, 29325), (66, 29358), (67, 29397), (69, 29442), (73, 29493), (77, 29544), (78, 29553), (81, 29622), (85, 29697), (88, 29742), (90, 29757), (100, 29892), (104, 29946), (105, 29967), (106, 30000), (109, 30045), (112, 30099), (114, 30126), (116, 30183), (120, 30204), (122, 30246), (123, 30285), (127, 30345), (145, 30585), (147, 30621), (149, 30654), (151, 30723),

Gene: ChrisnMich_27 Start: 27933, Stop: 30230, Start Num: 5

Candidate Starts for ChrisnMich_27:

(Start: 5 @27933 has 276 MA's), (12, 28032), (13, 28050), (23, 28173), (27, 28236), (31, 28317), (35, 28383), (37, 28395), (41, 28500), (42, 28539), (45, 28590), (47, 28599), (53, 28680), (54, 28683), (58, 28746), (63, 28788), (65, 28800), (70, 28923), (71, 28947), (76, 29010), (80, 29049), (82, 29121), (83, 29142), (85, 29178), (86, 29199), (92, 29265), (93, 29277), (95, 29328), (96, 29331), (97, 29349), (99, 29373), (102, 29400), (104, 29433), (105, 29454), (106, 29487), (109, 29532), (117, 29673), (118, 29676), (120, 29688), (124, 29772), (133, 29907), (134, 29931), (138, 29994), (141, 30024), (142, 30030), (145, 30078), (146, 30111), (147, 30114), (151, 30216), (152, 30219),

Gene: Chunky_31 Start: 28766, Stop: 31024, Start Num: 5

Candidate Starts for Chunky_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69,

29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (114, 30413), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: Chute_30 Start: 28801, Stop: 31062, Start Num: 5

Candidate Starts for Chute_30:

(Start: 5 @28801 has 276 MA's), (12, 28897), (18, 28975), (19, 29002), (24, 29077), (27, 29107), (37, 29266), (44, 29446), (47, 29470), (56, 29566), (58, 29602), (62, 29641), (64, 29650), (66, 29683), (67, 29722), (69, 29767), (73, 29818), (78, 29878), (81, 29947), (85, 30022), (88, 30067), (90, 30082), (100, 30217), (104, 30271), (105, 30292), (106, 30325), (109, 30370), (112, 30424), (114, 30451), (116, 30508), (120, 30529), (122, 30571), (123, 30610), (127, 30670), (145, 30910), (147, 30946), (149, 30979), (151, 31048),

Gene: Cobra_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Cobra_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (147, 30905), (149, 30938), (151, 31007),

Gene: Colbert_31 Start: 28819, Stop: 31077, Start Num: 5

Candidate Starts for Colbert_31:

(Start: 5 @28819 has 276 MA's), (12, 28915), (18, 28993), (19, 29020), (27, 29122), (37, 29281), (44, 29461), (47, 29485), (56, 29581), (58, 29617), (62, 29656), (64, 29665), (66, 29698), (67, 29737), (69, 29782), (73, 29833), (77, 29884), (78, 29893), (81, 29962), (85, 30037), (88, 30082), (90, 30097), (100, 30232), (104, 30286), (105, 30307), (106, 30340), (109, 30385), (112, 30439), (114, 30466), (116, 30523), (120, 30544), (122, 30586), (123, 30625), (127, 30685), (145, 30925), (146, 30958), (147, 30961), (149, 30994), (150, 31000), (151, 31063),

Gene: Coletti_30 Start: 28801, Stop: 31062, Start Num: 5

Candidate Starts for Coletti_30:

(Start: 5 @28801 has 276 MA's), (12, 28897), (18, 28975), (19, 29002), (24, 29077), (27, 29107), (37, 29266), (44, 29446), (47, 29470), (56, 29566), (58, 29602), (62, 29641), (64, 29650), (66, 29683), (67, 29722), (69, 29767), (73, 29818), (78, 29878), (81, 29947), (85, 30022), (88, 30067), (90, 30082), (100, 30217), (104, 30271), (105, 30292), (106, 30325), (109, 30370), (112, 30424), (114, 30451), (116, 30508), (120, 30529), (122, 30571), (123, 30610), (127, 30670), (145, 30910), (147, 30946), (149, 30979), (151, 31048),

Gene: Compostia_32 Start: 29043, Stop: 31268, Start Num: 4

Candidate Starts for Compostia_32:

(Start: 4 @29043 has 43 MA's), (Start: 7 @29058 has 1 MA's), (9, 29103), (13, 29160), (20, 29238), (25, 29307), (26, 29319), (30, 29361), (32, 29397), (33, 29424), (34, 29436), (36, 29463), (39, 29553), (43, 29625), (51, 29709), (59, 29817), (60, 29838), (67, 29931), (68, 29946), (76, 30075), (81, 30156), (85, 30231), (87, 30273), (88, 30279), (95, 30378), (100, 30429), (101, 30441), (104, 30483), (105, 30504), (108, 30558), (109, 30582), (111, 30618), (116, 30714), (118, 30723), (122, 30777), (128, 30885), (129, 30912), (133, 30954), (137, 31026), (145, 31116), (147, 31152),

Gene: Cooper_28 Start: 28155, Stop: 30443, Start Num: 5

Candidate Starts for Cooper_28:

(Start: 5 @28155 has 276 MA's), (10, 28227), (12, 28254), (13, 28272), (27, 28458), (31, 28539), (35, 28605), (41, 28722), (42, 28761), (47, 28821), (53, 28902), (54, 28905), (58, 28968), (65, 29022), (70, 29145), (71, 29169), (76, 29232), (80, 29271), (82, 29343), (83, 29364), (84, 29385), (85, 29400), (86, 29421), (93, 29499), (95, 29550), (96, 29553), (97, 29571), (99, 29595), (102, 29622), (104, 29655), (105, 29676), (106, 29709), (109, 29754), (117, 29895), (118, 29898), (120, 29910), (124, 29994), (125, 30006), (132, 30108), (133, 30129), (135, 30159), (142, 30243), (145, 30291), (146, 30324), (147, 30327), (151, 30429), (152, 30432),

Gene: Cornobble_30 Start: 28318, Stop: 30576, Start Num: 5

Candidate Starts for Cornobble_30:

(Start: 5 @28318 has 276 MA's), (12, 28414), (18, 28492), (19, 28519), (27, 28621), (37, 28780), (44, 28960), (47, 28984), (56, 29080), (58, 29116), (62, 29155), (64, 29164), (66, 29197), (67, 29236), (69, 29281), (73, 29332), (77, 29383), (78, 29392), (81, 29461), (85, 29536), (88, 29581), (90, 29596), (100, 29731), (104, 29785), (105, 29806), (106, 29839), (109, 29884), (112, 29938), (116, 30022), (120, 30043), (122, 30085), (123, 30124), (127, 30184), (145, 30424), (146, 30457), (147, 30460), (149, 30493), (150, 30499), (151, 30562),

Gene: Corofin_31 Start: 28638, Stop: 30863, Start Num: 4

Candidate Starts for Corofin_31:

(Start: 4 @28638 has 43 MA's), (Start: 7 @28653 has 1 MA's), (9, 28698), (13, 28755), (20, 28833), (25, 28902), (26, 28914), (30, 28956), (32, 28992), (33, 29019), (34, 29031), (36, 29058), (39, 29148), (43, 29220), (51, 29304), (59, 29412), (60, 29433), (67, 29526), (68, 29541), (76, 29670), (81, 29751), (85, 29826), (87, 29868), (88, 29874), (92, 29910), (100, 30024), (101, 30036), (104, 30078), (105, 30099), (108, 30153), (109, 30177), (111, 30213), (116, 30309), (118, 30318), (122, 30372), (128, 30480), (129, 30507), (133, 30549), (137, 30621), (145, 30711), (147, 30747),

Gene: Cosmolli16_30 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for Cosmolli16_30:

(Start: 5 @28480 has 276 MA's), (12, 28576), (18, 28654), (19, 28681), (27, 28780), (37, 28939), (44, 29119), (47, 29143), (55, 29233), (56, 29239), (58, 29275), (62, 29314), (64, 29323), (66, 29356), (67, 29395), (69, 29440), (73, 29491), (77, 29542), (78, 29551), (81, 29620), (85, 29695), (88, 29740), (90, 29755), (100, 29890), (104, 29944), (105, 29965), (106, 29998), (109, 30043), (112, 30097), (114, 30124), (116, 30181), (120, 30202), (122, 30244), (123, 30283), (127, 30343), (145, 30583), (146, 30616), (147, 30619), (149, 30652), (150, 30658), (151, 30721),

Gene: Craff_31 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for Craff_31:

(Start: 5 @28764 has 276 MA's), (12, 28860), (18, 28938), (19, 28965), (27, 29064), (37, 29223), (44, 29403), (47, 29427), (55, 29517), (56, 29523), (58, 29559), (62, 29598), (64, 29607), (66, 29640), (67, 29679), (69, 29724), (73, 29775), (77, 29826), (78, 29835), (81, 29904), (85, 29979), (88, 30024), (90, 30039), (100, 30174), (104, 30228), (105, 30249), (106, 30282), (109, 30327), (112, 30381), (114, 30408), (116, 30465), (120, 30486), (122, 30528), (123, 30567), (127, 30627), (145, 30867), (146, 30900), (147, 30903), (149, 30936), (150, 30942), (151, 31005),

Gene: Crownjwl_31 Start: 28533, Stop: 30791, Start Num: 5

Candidate Starts for Crownjwl_31:

(Start: 5 @28533 has 276 MA's), (12, 28629), (18, 28707), (19, 28734), (27, 28836), (37, 28995), (44, 29175), (47, 29199), (49, 29211), (56, 29295), (58, 29331), (62, 29370), (64, 29379), (66, 29412), (67, 29451), (69, 29496), (73, 29547), (77, 29598), (78, 29607), (81, 29676), (85, 29751), (88, 29796), (90, 29811), (100, 29946), (104, 30000), (105, 30021), (106, 30054), (109, 30099), (112, 30153), (116, 30237), (120, 30258), (122, 30300), (123, 30339), (127, 30399), (145, 30639), (146, 30672), (147, 30675), (149, 30708), (150, 30714), (151, 30777),

Gene: DaddyDaniels_31 Start: 28455, Stop: 30710, Start Num: 5

Candidate Starts for DaddyDaniels_31:

(Start: 5 @28455 has 276 MA's), (12, 28551), (18, 28629), (19, 28656), (27, 28755), (37, 28914), (44, 29094), (47, 29118), (56, 29214), (58, 29250), (62, 29289), (64, 29298), (66, 29331), (67, 29370), (69, 29415), (73, 29466), (77, 29517), (78, 29526), (81, 29595), (85, 29670), (88, 29715), (90, 29730), (100, 29865), (104, 29919), (105, 29940), (106, 29973), (109, 30018), (112, 30072), (114, 30099), (116, 30156), (120, 30177), (122, 30219), (123, 30258), (127, 30318), (145, 30558), (147, 30594), (149, 30627), (151, 30696),

Gene: Daffy_31 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Daffy_31:

(Start: 5 @28486 has 276 MA's), (12, 28582), (18, 28660), (19, 28687), (27, 28786), (37, 28945), (44, 29125), (47, 29149), (55, 29239), (56, 29245), (58, 29281), (62, 29320), (64, 29329), (66, 29362), (67, 29401), (69, 29446), (73, 29497), (77, 29548), (78, 29557), (81, 29626), (85, 29701), (88, 29746), (90, 29761), (100, 29896), (104, 29950), (105, 29971), (106, 30004), (109, 30049), (112, 30103), (114, 30130), (116, 30187), (120, 30208), (122, 30250), (123, 30289), (127, 30349), (145, 30589), (147, 30625), (149, 30658), (151, 30727),

Gene: Daisy_31 Start: 28640, Stop: 30865, Start Num: 4

Candidate Starts for Daisy_31:

(Start: 4 @28640 has 43 MA's), (Start: 7 @28655 has 1 MA's), (9, 28700), (13, 28757), (20, 28835), (25, 28904), (26, 28916), (30, 28958), (32, 28994), (33, 29021), (34, 29033), (36, 29060), (39, 29150), (43, 29222), (51, 29306), (59, 29414), (60, 29435), (67, 29528), (68, 29543), (76, 29672), (81, 29753), (85, 29828), (87, 29870), (88, 29876), (92, 29912), (100, 30026), (101, 30038), (104, 30080), (105, 30101), (108, 30155), (109, 30179), (111, 30215), (116, 30311), (118, 30320), (122, 30374), (128, 30482), (129, 30509), (133, 30551), (137, 30623), (145, 30713), (147, 30749),

Gene: Daka_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Daka_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (114, 30404), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (147, 30899), (149, 30932), (151, 31001),

Gene: Dati_31 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for Dati_31:

(Start: 5 @28480 has 276 MA's), (12, 28576), (18, 28654), (19, 28681), (27, 28780), (37, 28939), (44, 29119), (47, 29143), (55, 29233), (56, 29239), (58, 29275), (62, 29314), (64, 29323), (66, 29356), (67, 29395), (69, 29440), (73, 29491), (77, 29542), (78, 29551), (81, 29620), (85, 29695), (88, 29740), (90, 29755), (100, 29890), (104, 29944), (105, 29965), (106, 29998), (109, 30043), (112, 30097), (114, 30124), (116, 30181), (120, 30202), (122, 30244), (123, 30283), (127, 30343), (145, 30583), (146, 30616), (147, 30619), (149, 30652), (150, 30658), (151, 30721),

Gene: Deenasa_31 Start: 29376, Stop: 31604, Start Num: 4

Candidate Starts for Deenasa_31:

(Start: 4 @29376 has 43 MA's), (Start: 7 @29391 has 1 MA's), (9, 29436), (13, 29493), (20, 29571), (25, 29640), (26, 29652), (30, 29694), (32, 29730), (33, 29757), (34, 29769), (36, 29796), (39, 29886), (43, 29958), (51, 30042), (59, 30150), (60, 30171), (67, 30264), (68, 30279), (76, 30408), (81, 30489), (85, 30564), (87, 30606), (88, 30612), (92, 30648), (100, 30762), (101, 30774), (104, 30816), (105, 30837), (108, 30891), (109, 30915), (111, 30951), (116, 31050), (118, 31059), (122, 31113), (128, 31221), (129, 31248), (133, 31290), (137, 31362), (145, 31452), (147, 31488),

Gene: DelRivs_30 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for DelRivs_30:

(Start: 5 @28481 has 276 MA's), (12, 28577), (18, 28655), (19, 28682), (27, 28781), (37, 28940), (44, 29120), (47, 29144), (55, 29234), (56, 29240), (58, 29276), (62, 29315), (64, 29324), (66, 29357), (67, 29396), (69, 29441), (73, 29492), (77, 29543), (78, 29552), (81, 29621), (85, 29696), (88, 29741), (90, 29756), (100, 29891), (104, 29945), (105, 29966), (106, 29999), (109, 30044), (112, 30098), (114, 30125), (116, 30182), (120, 30203), (122, 30245), (123, 30284), (127, 30344), (145, 30584), (146, 30617), (147, 30620), (149, 30653), (150, 30659), (151, 30722),

Gene: Derpp_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for Derpp_30:

(Start: 5 @28325 has 276 MA's), (12, 28421), (18, 28499), (19, 28526), (27, 28625), (37, 28784), (44, 28964), (47, 28988), (56, 29084), (58, 29120), (62, 29159), (64, 29168), (66, 29201), (67, 29240), (69, 29285), (73, 29336), (78, 29396), (81, 29465), (85, 29540), (88, 29585), (90, 29600), (100, 29735), (104, 29789), (105, 29810), (106, 29843), (109, 29888), (112, 29942), (114, 29969), (116, 30026), (120, 30047), (122, 30089), (123, 30128), (127, 30188), (145, 30428), (146, 30461), (147, 30464), (149, 30497), (151, 30566),

Gene: Devonte_31 Start: 28604, Stop: 30829, Start Num: 4

Candidate Starts for Devonte_31:

(Start: 4 @28604 has 43 MA's), (Start: 7 @28619 has 1 MA's), (9, 28664), (13, 28721), (20, 28799), (25, 28868), (26, 28880), (30, 28922), (32, 28958), (33, 28985), (34, 28997), (36, 29024), (39, 29114), (43, 29186), (51, 29270), (59, 29378), (60, 29399), (67, 29492), (68, 29507), (76, 29636), (81, 29717), (85, 29792), (87, 29834), (88, 29840), (92, 29876), (100, 29990), (101, 30002), (104, 30044), (105, 30065), (108, 30119), (109, 30143), (111, 30179), (116, 30275), (118, 30284), (122, 30338), (128, 30446), (129, 30473), (133, 30515), (137, 30587), (145, 30677), (147, 30713),

Gene: Dice_32 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Dice_32:

(Start: 5 @28460 has 276 MA's), (12, 28556), (18, 28634), (19, 28661), (27, 28760), (37, 28919), (44, 29099), (47, 29123), (55, 29213), (56, 29219), (58, 29255), (62, 29294), (64, 29303), (66, 29336), (67, 29375), (69, 29420), (73, 29471), (77, 29522), (78, 29531), (81, 29600), (85, 29675), (88, 29720), (90, 29735), (100, 29870), (104, 29924), (105, 29945), (106, 29978), (109, 30023), (112, 30077), (114, 30104), (116, 30161), (120, 30182), (122, 30224), (123, 30263), (127, 30323), (145, 30563), (147, 30599), (149, 30632), (151, 30701),

Gene: DigitDog_30 Start: 28569, Stop: 30836, Start Num: 5

Candidate Starts for DigitDog_30:

(Start: 5 @28569 has 276 MA's), (8, 28617), (11, 28647), (12, 28665), (14, 28701), (16, 28722), (17, 28740), (23, 28803), (28, 28908), (37, 29031), (38, 29037), (41, 29136), (48, 29238), (52, 29292), (62, 29412), (65, 29427), (66, 29454), (77, 29640), (80, 29676), (81, 29718), (85, 29793), (88, 29844), (92, 29880), (95, 29943), (98, 29967), (100, 29994), (108, 30123), (109, 30147), (116, 30282), (118, 30291), (120, 30303), (122, 30345), (123, 30384), (124, 30387), (126, 30441), (128, 30453), (130, 30483), (132, 30501), (136, 30567), (145, 30684), (151, 30822),

Gene: Dingo_31 Start: 28743, Stop: 30998, Start Num: 5

Candidate Starts for Dingo_31:

(Start: 5 @28743 has 276 MA's), (12, 28839), (18, 28917), (19, 28944), (27, 29043), (37, 29202), (44, 29382), (47, 29406), (56, 29502), (58, 29538), (62, 29577), (64, 29586), (66, 29619), (67, 29658), (69, 29703), (73, 29754), (77, 29805), (78, 29814), (81, 29883), (85, 29958), (88, 30003), (90, 30018), (100, 30153), (104, 30207), (105, 30228), (106, 30261), (109, 30306), (112, 30360), (114, 30387), (116, 30444), (120, 30465), (122, 30507), (123, 30546), (127, 30606), (131, 30657), (145, 30846),

(147, 30882), (149, 30915), (151, 30984),

Gene: Dione_30 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for Dione_30:

(Start: 5 @28465 has 276 MA's), (12, 28561), (18, 28639), (19, 28666), (27, 28765), (37, 28924), (44, 29104), (47, 29128), (55, 29218), (56, 29224), (58, 29260), (62, 29299), (64, 29308), (66, 29341), (67, 29380), (69, 29425), (73, 29476), (77, 29527), (78, 29536), (81, 29605), (85, 29680), (88, 29725), (90, 29740), (100, 29875), (104, 29929), (105, 29950), (106, 29983), (109, 30028), (112, 30082), (114, 30109), (116, 30166), (120, 30187), (122, 30229), (123, 30268), (127, 30328), (145, 30568), (147, 30604), (149, 30637), (151, 30706),

Gene: DirtJuice_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for DirtJuice_31:

(Start: 5 @28749 has 276 MA's), (12, 28845), (18, 28923), (19, 28950), (27, 29049), (37, 29208), (44, 29388), (47, 29412), (56, 29508), (58, 29544), (62, 29583), (64, 29592), (66, 29625), (67, 29664), (69, 29709), (73, 29760), (77, 29811), (78, 29820), (81, 29889), (85, 29964), (88, 30009), (90, 30024), (100, 30159), (104, 30213), (105, 30234), (106, 30267), (109, 30312), (112, 30366), (114, 30393), (116, 30450), (120, 30471), (122, 30513), (123, 30552), (127, 30612), (145, 30852), (147, 30888), (149, 30921), (151, 30990),

Gene: Doddsville_31 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Doddsville_31:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67, 29394), (69, 29439), (73, 29490), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (146, 30615), (147, 30618), (149, 30651), (151, 30720),

Gene: DoesntMatter_31 Start: 28745, Stop: 31000, Start Num: 5

Candidate Starts for DoesntMatter_31:

(Start: 5 @28745 has 276 MA's), (12, 28841), (18, 28919), (19, 28946), (27, 29045), (37, 29204), (44, 29384), (47, 29408), (55, 29498), (56, 29504), (58, 29540), (62, 29579), (64, 29588), (66, 29621), (67, 29660), (69, 29705), (73, 29756), (77, 29807), (78, 29816), (81, 29885), (85, 29960), (88, 30005), (90, 30020), (100, 30155), (104, 30209), (105, 30230), (106, 30263), (109, 30308), (112, 30362), (114, 30389), (116, 30446), (120, 30467), (122, 30509), (123, 30548), (127, 30608), (145, 30848), (146, 30881), (147, 30884), (149, 30917), (150, 30923), (151, 30986),

Gene: DonSanchon_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for DonSanchon_30:

(Start: 5 @28459 has 276 MA's), (12, 28555), (18, 28633), (19, 28660), (27, 28759), (37, 28918), (44, 29098), (47, 29122), (55, 29212), (56, 29218), (58, 29254), (62, 29293), (64, 29302), (66, 29335), (67, 29374), (69, 29419), (73, 29470), (77, 29521), (78, 29530), (81, 29599), (85, 29674), (88, 29719), (90, 29734), (100, 29869), (104, 29923), (105, 29944), (106, 29977), (109, 30022), (112, 30076), (114, 30103), (116, 30160), (120, 30181), (122, 30223), (123, 30262), (127, 30322), (145, 30562), (147, 30598), (149, 30631), (151, 30700),

Gene: Donny_30 Start: 28983, Stop: 31259, Start Num: 5

Candidate Starts for Donny_30:

(Start: 5 @28983 has 276 MA's), (6, 28989), (8, 29031), (10, 29052), (11, 29061), (14, 29115), (16, 29136), (17, 29154), (18, 29157), (21, 29199), (22, 29205), (23, 29217), (27, 29286), (28, 29322), (37, 29445), (41, 29550), (52, 29706), (54, 29733), (57, 29784), (62, 29835), (65, 29850), (77, 30063), (80, 30099), (81, 30141), (85, 30216), (95, 30366), (98, 30390), (100, 30417), (105, 30492), (108, 30546),

(116, 30705), (118, 30714), (120, 30726), (123, 30807), (124, 30810), (128, 30876), (132, 30924), (136, 30990), (145, 31107),

Gene: DuchessDung_29 Start: 27616, Stop: 29871, Start Num: 5

Candidate Starts for DuchessDung_29:

(Start: 5 @27616 has 276 MA's), (12, 27712), (18, 27790), (19, 27817), (27, 27916), (37, 28075), (44, 28255), (47, 28279), (56, 28375), (58, 28411), (62, 28450), (64, 28459), (66, 28492), (67, 28531), (69, 28576), (73, 28627), (77, 28678), (78, 28687), (81, 28756), (85, 28831), (88, 28876), (90, 28891), (100, 29026), (104, 29080), (105, 29101), (106, 29134), (109, 29179), (112, 29233), (114, 29260), (116, 29317), (120, 29338), (122, 29380), (123, 29419), (127, 29479), (145, 29719), (146, 29752), (147, 29755), (149, 29788), (150, 29794), (151, 29857),

Gene: Duggie_30 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for Duggie_30:

(Start: 5 @28481 has 276 MA's), (12, 28577), (18, 28655), (19, 28682), (27, 28781), (37, 28940), (44, 29120), (47, 29144), (56, 29240), (58, 29276), (62, 29315), (64, 29324), (66, 29357), (67, 29396), (69, 29441), (73, 29492), (77, 29543), (78, 29552), (81, 29621), (85, 29696), (88, 29741), (90, 29756), (100, 29891), (104, 29945), (105, 29966), (106, 29999), (109, 30044), (112, 30098), (114, 30125), (116, 30182), (120, 30203), (122, 30245), (123, 30284), (127, 30344), (145, 30584), (147, 30620), (149, 30653), (151, 30722),

Gene: Durga_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Durga_31:

(Start: 5 @28778 has 276 MA's), (12, 28874), (18, 28952), (19, 28979), (27, 29078), (37, 29237), (44, 29417), (47, 29441), (56, 29537), (58, 29573), (62, 29612), (64, 29621), (66, 29654), (67, 29693), (69, 29738), (73, 29789), (77, 29840), (78, 29849), (81, 29918), (85, 29993), (88, 30038), (90, 30053), (100, 30188), (104, 30242), (105, 30263), (106, 30296), (109, 30341), (112, 30395), (114, 30422), (116, 30479), (120, 30500), (122, 30542), (123, 30581), (127, 30641), (145, 30881), (147, 30917), (149, 30950), (151, 31019),

Gene: EastView9101_30 Start: 28633, Stop: 30909, Start Num: 5

Candidate Starts for EastView9101_30:

(Start: 5 @28633 has 276 MA's), (6, 28639), (8, 28681), (10, 28702), (11, 28711), (14, 28765), (16, 28786), (17, 28804), (18, 28807), (21, 28849), (22, 28855), (23, 28867), (27, 28936), (28, 28972), (37, 29095), (41, 29200), (52, 29356), (54, 29383), (57, 29434), (62, 29485), (65, 29500), (77, 29713), (80, 29749), (81, 29791), (85, 29866), (95, 30016), (98, 30040), (100, 30067), (105, 30142), (108, 30196), (116, 30355), (118, 30364), (120, 30376), (123, 30457), (124, 30460), (128, 30526), (132, 30574), (136, 30640), (145, 30757),

Gene: Emiris_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Emiris_31:

(Start: 5 @28749 has 276 MA's), (12, 28845), (18, 28923), (19, 28950), (27, 29049), (37, 29208), (44, 29388), (47, 29412), (55, 29502), (56, 29508), (58, 29544), (62, 29583), (64, 29592), (66, 29625), (67, 29664), (69, 29709), (73, 29760), (77, 29811), (78, 29820), (81, 29889), (85, 29964), (88, 30009), (90, 30024), (100, 30159), (104, 30213), (105, 30234), (106, 30267), (109, 30312), (112, 30366), (114, 30393), (116, 30450), (120, 30471), (122, 30513), (123, 30552), (127, 30612), (145, 30852), (147, 30888), (149, 30921), (151, 30990),

Gene: EmpTee_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for EmpTee_31:

(Start: 5 @28759 has 276 MA's), (12, 28855), (18, 28933), (19, 28960), (27, 29059), (37, 29218), (44, 29398), (47, 29422), (55, 29512), (56, 29518), (58, 29554), (62, 29593), (64, 29602), (66, 29635), (67, 29674), (69, 29719), (73, 29770), (77, 29821), (78, 29830), (81, 29899), (85, 29974), (88, 30019), (90,

30034), (100, 30169), (104, 30223), (105, 30244), (106, 30277), (109, 30322), (112, 30376), (116, 30460), (120, 30481), (122, 30523), (123, 30562), (127, 30622), (145, 30862), (146, 30895), (147, 30898), (149, 30931), (151, 31000),

Gene: Eremos_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Eremos_31:

(Start: 5 @28758 has 276 MA's), (12, 28854), (18, 28932), (19, 28959), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (55, 29511), (56, 29517), (58, 29553), (62, 29592), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146, 30894), (147, 30897), (149, 30930), (150, 30936), (151, 30999),

Gene: Etaye_31 Start: 28748, Stop: 31003, Start Num: 5

Candidate Starts for Etaye_31:

(Start: 5 @28748 has 276 MA's), (12, 28844), (18, 28922), (19, 28949), (27, 29048), (37, 29207), (44, 29387), (47, 29411), (56, 29507), (58, 29543), (62, 29582), (64, 29591), (66, 29624), (67, 29663), (69, 29708), (73, 29759), (77, 29810), (78, 29819), (81, 29888), (85, 29963), (88, 30008), (90, 30023), (100, 30158), (104, 30212), (105, 30233), (106, 30266), (109, 30311), (112, 30365), (114, 30392), (116, 30449), (120, 30470), (122, 30512), (123, 30551), (127, 30611), (145, 30851), (147, 30887), (149, 30920), (151, 30989),

Gene: Eugenia_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for Eugenia_31:

(Start: 5 @28768 has 276 MA's), (12, 28864), (18, 28942), (19, 28969), (27, 29068), (37, 29227), (44, 29407), (47, 29431), (55, 29521), (56, 29527), (58, 29563), (62, 29602), (64, 29611), (66, 29644), (67, 29683), (69, 29728), (73, 29779), (77, 29830), (78, 29839), (81, 29908), (85, 29983), (88, 30028), (90, 30043), (100, 30178), (104, 30232), (105, 30253), (106, 30286), (109, 30331), (112, 30385), (114, 30412), (116, 30469), (120, 30490), (122, 30532), (123, 30571), (127, 30631), (145, 30871), (147, 30907), (149, 30940), (151, 31009),

Gene: Fang_31 Start: 28772, Stop: 31027, Start Num: 5

Candidate Starts for Fang_31:

(Start: 5 @28772 has 276 MA's), (12, 28868), (18, 28946), (19, 28973), (27, 29072), (37, 29231), (44, 29411), (47, 29435), (55, 29525), (56, 29531), (58, 29567), (62, 29606), (64, 29615), (66, 29648), (67, 29687), (69, 29732), (73, 29783), (77, 29834), (78, 29843), (81, 29912), (85, 29987), (88, 30032), (90, 30047), (100, 30182), (104, 30236), (105, 30257), (106, 30290), (109, 30335), (112, 30389), (114, 30416), (116, 30473), (120, 30494), (122, 30536), (123, 30575), (127, 30635), (145, 30875), (147, 30911), (149, 30944), (151, 31013),

Gene: FluffyNinja_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for FluffyNinja_31:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (55, 29518), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (116, 30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (146, 30901), (147, 30904), (149, 30937), (150, 30943), (151, 31006),

Gene: Fortunato_28 Start: 28277, Stop: 31261, Start Num: 1

Candidate Starts for Fortunato_28:

(Start: 1 @28277 has 1 MA's), (2, 28424), (Start: 5 @28964 has 276 MA's), (12, 29063), (13, 29081), (19, 29168), (23, 29204), (27, 29267), (31, 29348), (35, 29414), (41, 29531), (42, 29570), (45, 29621),

(47, 29630), (52, 29687), (53, 29711), (54, 29714), (58, 29777), (63, 29819), (65, 29831), (70, 29954), (71, 29978), (76, 30041), (82, 30152), (83, 30173), (85, 30209), (86, 30230), (92, 30296), (93, 30308), (95, 30359), (96, 30362), (97, 30380), (99, 30404), (102, 30431), (104, 30464), (105, 30485), (106, 30518), (109, 30563), (117, 30704), (118, 30707), (120, 30719), (124, 30803), (132, 30917), (133, 30938), (134, 30962), (138, 31025), (141, 31055), (142, 31061), (145, 31109), (146, 31142), (147, 31145), (151, 31247), (152, 31250),

Gene: Fozzie_30 Start: 28774, Stop: 31035, Start Num: 5

Candidate Starts for Fozzie_30:

(Start: 5 @28774 has 276 MA's), (12, 28870), (18, 28948), (19, 28975), (24, 29050), (27, 29080), (37, 29239), (44, 29419), (47, 29443), (56, 29539), (58, 29575), (62, 29614), (64, 29623), (66, 29656), (67, 29695), (69, 29740), (73, 29791), (78, 29851), (81, 29920), (85, 29995), (88, 30040), (90, 30055), (100, 30190), (104, 30244), (105, 30265), (106, 30298), (109, 30343), (112, 30397), (114, 30424), (116, 30481), (120, 30502), (122, 30544), (123, 30583), (127, 30643), (145, 30883), (147, 30919), (149, 30952), (151, 31021),

Gene: Frankicide_31 Start: 28777, Stop: 31032, Start Num: 5

Candidate Starts for Frankicide_31:

(Start: 5 @28777 has 276 MA's), (12, 28873), (18, 28951), (19, 28978), (27, 29077), (37, 29236), (44, 29416), (47, 29440), (56, 29536), (58, 29572), (62, 29611), (64, 29620), (66, 29653), (67, 29692), (69, 29737), (73, 29788), (77, 29839), (78, 29848), (81, 29917), (85, 29992), (88, 30037), (90, 30052), (100, 30187), (104, 30241), (105, 30262), (106, 30295), (109, 30340), (112, 30394), (114, 30421), (116, 30478), (120, 30499), (122, 30541), (123, 30580), (127, 30640), (145, 30880), (146, 30913), (147, 30916), (149, 30949), (150, 30955), (151, 31018),

Gene: Frederick_28 Start: 28973, Stop: 31270, Start Num: 5

Candidate Starts for Frederick_28:

(Start: 5 @28973 has 276 MA's), (12, 29072), (13, 29090), (23, 29213), (27, 29276), (31, 29357), (35, 29423), (41, 29540), (42, 29579), (45, 29630), (47, 29639), (52, 29696), (53, 29720), (54, 29723), (58, 29786), (63, 29828), (65, 29840), (69, 29951), (71, 29987), (76, 30050), (82, 30161), (83, 30182), (85, 30218), (86, 30239), (92, 30305), (93, 30317), (95, 30368), (96, 30371), (97, 30389), (99, 30413), (102, 30440), (104, 30473), (105, 30494), (106, 30527), (109, 30572), (117, 30713), (118, 30716), (119, 30719), (120, 30728), (124, 30812), (132, 30926), (133, 30947), (134, 30971), (138, 31034), (141, 31064), (142, 31070), (145, 31118), (146, 31151), (147, 31154), (151, 31256), (152, 31259),

Gene: Freya_30 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Freya_30:

(Start: 5 @28456 has 276 MA's), (12, 28552), (18, 28630), (19, 28657), (27, 28756), (37, 28915), (44, 29095), (47, 29119), (55, 29209), (56, 29215), (58, 29251), (62, 29290), (64, 29299), (66, 29332), (67, 29371), (69, 29416), (73, 29467), (77, 29518), (78, 29527), (81, 29596), (88, 29716), (90, 29731), (100, 29866), (104, 29920), (105, 29941), (106, 29974), (109, 30019), (112, 30073), (114, 30100), (116, 30157), (120, 30178), (122, 30220), (123, 30259), (127, 30319), (145, 30559), (146, 30592), (147, 30595), (149, 30628), (150, 30634), (151, 30697),

Gene: FriarPreacher_31 Start: 28783, Stop: 31038, Start Num: 5

Candidate Starts for FriarPreacher_31:

(Start: 5 @28783 has 276 MA's), (12, 28879), (18, 28957), (19, 28984), (27, 29083), (37, 29242), (44, 29422), (47, 29446), (55, 29536), (56, 29542), (58, 29578), (62, 29617), (64, 29626), (66, 29659), (67, 29698), (69, 29743), (73, 29794), (77, 29845), (78, 29854), (81, 29923), (85, 29998), (88, 30043), (90, 30058), (100, 30193), (104, 30247), (105, 30268), (106, 30301), (109, 30346), (112, 30400), (114, 30427), (116, 30484), (120, 30505), (122, 30547), (123, 30586), (127, 30646), (145, 30886), (146, 30919), (147, 30922), (149, 30955), (150, 30961), (151, 31024),

Gene: Fringe_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Fringe_31:

(Start: 5 @28747 has 276 MA's), (12, 28843), (18, 28921), (19, 28948), (27, 29047), (37, 29206), (44, 29386), (47, 29410), (55, 29500), (56, 29506), (58, 29542), (62, 29581), (64, 29590), (66, 29623), (67, 29662), (69, 29707), (73, 29758), (77, 29809), (78, 29818), (81, 29887), (85, 29962), (88, 30007), (90, 30022), (100, 30157), (104, 30211), (105, 30232), (106, 30265), (109, 30310), (112, 30364), (114, 30391), (116, 30448), (120, 30469), (122, 30511), (123, 30550), (127, 30610), (145, 30850), (146, 30883), (147, 30886), (149, 30919), (150, 30925), (151, 30988),

Gene: FugateOSU_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for FugateOSU_30:

(Start: 5 @28461 has 276 MA's), (12, 28557), (18, 28635), (19, 28662), (27, 28761), (37, 28920), (44, 29100), (47, 29124), (55, 29214), (56, 29220), (58, 29256), (62, 29295), (64, 29304), (66, 29337), (67, 29376), (69, 29421), (73, 29472), (77, 29523), (78, 29532), (81, 29601), (85, 29676), (88, 29721), (90, 29736), (100, 29871), (104, 29925), (105, 29946), (106, 29979), (109, 30024), (112, 30078), (114, 30105), (116, 30162), (120, 30183), (122, 30225), (123, 30264), (127, 30324), (145, 30564), (146, 30597), (147, 30600), (149, 30633), (150, 30639), (151, 30702),

Gene: Gadget_32 Start: 28620, Stop: 30848, Start Num: 4

Candidate Starts for Gadget_32:

(Start: 4 @28620 has 43 MA's), (Start: 7 @28635 has 1 MA's), (9, 28680), (13, 28737), (20, 28815), (25, 28884), (26, 28896), (30, 28938), (32, 28974), (33, 29001), (34, 29013), (36, 29040), (39, 29130), (43, 29202), (51, 29286), (59, 29394), (60, 29415), (67, 29508), (68, 29523), (76, 29652), (81, 29733), (85, 29808), (87, 29850), (88, 29856), (92, 29892), (100, 30006), (101, 30018), (104, 30060), (105, 30081), (108, 30135), (109, 30159), (116, 30294), (118, 30303), (122, 30357), (128, 30465), (129, 30492), (133, 30534), (137, 30606), (145, 30696), (147, 30732),

Gene: Gareth_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Gareth_30:

(Start: 5 @28463 has 276 MA's), (12, 28559), (18, 28637), (19, 28664), (27, 28763), (37, 28922), (44, 29102), (47, 29126), (55, 29216), (56, 29222), (58, 29258), (62, 29297), (64, 29306), (66, 29339), (67, 29378), (69, 29423), (73, 29474), (77, 29525), (78, 29534), (81, 29603), (85, 29678), (88, 29723), (90, 29738), (100, 29873), (104, 29927), (105, 29948), (106, 29981), (109, 30026), (112, 30080), (114, 30107), (116, 30164), (120, 30185), (122, 30227), (123, 30266), (127, 30326), (145, 30566), (146, 30599), (147, 30602), (149, 30635), (150, 30641), (151, 30704),

Gene: GeneCoco_31 Start: 28773, Stop: 31028, Start Num: 5

Candidate Starts for GeneCoco_31:

(Start: 5 @28773 has 276 MA's), (12, 28869), (18, 28947), (19, 28974), (27, 29073), (37, 29232), (44, 29412), (47, 29436), (56, 29532), (58, 29568), (62, 29607), (64, 29616), (66, 29649), (67, 29688), (69, 29733), (73, 29784), (77, 29835), (78, 29844), (81, 29913), (85, 29988), (88, 30033), (90, 30048), (100, 30183), (104, 30237), (105, 30258), (106, 30291), (109, 30336), (112, 30390), (114, 30417), (116, 30474), (120, 30495), (122, 30537), (123, 30576), (127, 30636), (145, 30876), (147, 30912), (149, 30945), (151, 31014),

Gene: Gervas_31 Start: 28594, Stop: 30819, Start Num: 4

Candidate Starts for Gervas_31:

(Start: 4 @28594 has 43 MA's), (9, 28654), (13, 28711), (25, 28858), (26, 28870), (30, 28912), (32, 28948), (33, 28975), (34, 28987), (36, 29014), (39, 29104), (43, 29176), (51, 29260), (59, 29368), (60, 29389), (67, 29482), (68, 29497), (76, 29626), (81, 29707), (85, 29782), (87, 29824), (88, 29830), (92, 29866), (100, 29980), (101, 29992), (104, 30034), (105, 30055), (108, 30109), (109, 30133), (111, 30169), (116, 30265), (118, 30274), (122, 30328), (128, 30436), (129, 30463), (133, 30505), (137, 30577), (145, 30667), (147, 30703),

Gene: Giraffe_31 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for Giraffe_31:

(Start: 5 @28467 has 276 MA's), (12, 28563), (18, 28641), (19, 28668), (27, 28767), (37, 28926), (44, 29106), (47, 29130), (55, 29220), (56, 29226), (58, 29262), (62, 29301), (64, 29310), (66, 29343), (67, 29382), (69, 29427), (73, 29478), (77, 29529), (78, 29538), (81, 29607), (85, 29682), (88, 29727), (90, 29742), (100, 29877), (104, 29931), (105, 29952), (106, 29985), (109, 30030), (112, 30084), (114, 30111), (116, 30168), (120, 30189), (122, 30231), (123, 30270), (127, 30330), (145, 30570), (146, 30603), (147, 30606), (149, 30639), (150, 30645), (151, 30708),

Gene: GlenHope_32 Start: 28606, Stop: 30831, Start Num: 4

Candidate Starts for GlenHope_32:

(Start: 4 @28606 has 43 MA's), (Start: 7 @28621 has 1 MA's), (9, 28666), (13, 28723), (20, 28801), (25, 28870), (26, 28882), (30, 28924), (32, 28960), (33, 28987), (34, 28999), (36, 29026), (39, 29116), (43, 29188), (51, 29272), (59, 29380), (60, 29401), (67, 29494), (68, 29509), (76, 29638), (81, 29719), (85, 29794), (87, 29836), (88, 29842), (92, 29878), (95, 29941), (100, 29992), (101, 30004), (104, 30046), (105, 30067), (108, 30121), (109, 30145), (111, 30181), (116, 30277), (118, 30286), (122, 30340), (128, 30448), (129, 30475), (133, 30517), (137, 30589), (145, 30679), (147, 30715),

Gene: Gophee_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Gophee_31:

(Start: 5 @28749 has 276 MA's), (12, 28845), (18, 28923), (19, 28950), (27, 29049), (37, 29208), (44, 29388), (47, 29412), (55, 29502), (56, 29508), (58, 29544), (62, 29583), (64, 29592), (66, 29625), (67, 29664), (69, 29709), (73, 29760), (77, 29811), (78, 29820), (81, 29889), (85, 29964), (88, 30009), (90, 30024), (100, 30159), (104, 30213), (105, 30234), (106, 30267), (109, 30312), (112, 30366), (114, 30393), (116, 30450), (120, 30471), (122, 30513), (123, 30552), (127, 30612), (145, 30852), (146, 30885), (147, 30888), (149, 30921), (150, 30927), (151, 30990),

Gene: Grand2040_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Grand2040_30:

(Start: 5 @28482 has 276 MA's), (12, 28578), (18, 28656), (19, 28683), (27, 28782), (37, 28941), (44, 29121), (47, 29145), (55, 29235), (56, 29241), (58, 29277), (62, 29316), (64, 29325), (66, 29358), (67, 29397), (69, 29442), (73, 29493), (77, 29544), (78, 29553), (81, 29622), (85, 29697), (88, 29742), (90, 29757), (100, 29892), (104, 29946), (105, 29967), (106, 30000), (109, 30045), (112, 30099), (114, 30126), (116, 30183), (120, 30204), (122, 30246), (123, 30285), (127, 30345), (145, 30585), (147, 30621), (149, 30654), (151, 30723),

Gene: Gwilliam_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Gwilliam_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (55, 29514), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (146, 30897), (147, 30900), (149, 30933), (150, 30939), (151, 31002),

Gene: Gyarad_0031 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for Gyarad_0031:

(Start: 5 @28763 has 276 MA's), (12, 28859), (18, 28937), (19, 28964), (27, 29063), (37, 29222), (44, 29402), (47, 29426), (55, 29516), (56, 29522), (58, 29558), (62, 29597), (64, 29606), (66, 29639), (67, 29678), (69, 29723), (73, 29774), (77, 29825), (78, 29834), (81, 29903), (85, 29978), (88, 30023), (90, 30038), (100, 30173), (104, 30227), (105, 30248), (106, 30281), (109, 30326), (112, 30380), (114, 30407), (116, 30464), (120, 30485), (122, 30527), (123, 30566), (127, 30626), (145, 30866), (146,

30899), (147, 30902), (149, 30935), (150, 30941), (151, 31004),

Gene: HSavage_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for HSavage_31:

(Start: 5 @28768 has 276 MA's), (12, 28864), (18, 28942), (19, 28969), (27, 29068), (37, 29227), (44, 29407), (47, 29431), (55, 29521), (56, 29527), (58, 29563), (62, 29602), (64, 29611), (66, 29644), (67, 29683), (69, 29728), (73, 29779), (77, 29830), (78, 29839), (81, 29908), (85, 29983), (88, 30028), (90, 30043), (100, 30178), (104, 30232), (105, 30253), (106, 30286), (109, 30331), (112, 30385), (114, 30412), (116, 30469), (120, 30490), (122, 30532), (123, 30571), (127, 30631), (145, 30871), (146, 30904), (147, 30907), (149, 30940), (150, 30946), (151, 31009),

Gene: Haimas_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for Haimas_31:

(Start: 5 @28759 has 276 MA's), (12, 28855), (18, 28933), (19, 28960), (27, 29059), (37, 29218), (44, 29398), (47, 29422), (55, 29512), (56, 29518), (58, 29554), (62, 29593), (64, 29602), (66, 29635), (67, 29674), (69, 29719), (73, 29770), (77, 29821), (78, 29830), (81, 29899), (85, 29974), (88, 30019), (90, 30034), (100, 30169), (104, 30223), (105, 30244), (106, 30277), (109, 30322), (112, 30376), (114, 30403), (116, 30460), (120, 30481), (122, 30523), (123, 30562), (127, 30622), (145, 30862), (146, 30895), (147, 30898), (149, 30931), (150, 30937), (151, 31000),

Gene: Haleema_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Haleema_30:

(Start: 5 @28482 has 276 MA's), (12, 28578), (18, 28656), (19, 28683), (27, 28782), (37, 28941), (44, 29121), (47, 29145), (55, 29235), (56, 29241), (58, 29277), (62, 29316), (64, 29325), (66, 29358), (67, 29397), (69, 29442), (73, 29493), (77, 29544), (78, 29553), (81, 29622), (85, 29697), (88, 29742), (90, 29757), (100, 29892), (104, 29946), (105, 29967), (106, 30000), (109, 30045), (112, 30099), (114, 30126), (116, 30183), (120, 30204), (122, 30246), (123, 30285), (127, 30345), (145, 30585), (146, 30618), (147, 30621), (149, 30654), (150, 30660), (151, 30723),

Gene: Halfpint_30 Start: 28429, Stop: 30654, Start Num: 4

Candidate Starts for Halfpint_30:

(Start: 4 @28429 has 43 MA's), (Start: 7 @28444 has 1 MA's), (9, 28489), (13, 28546), (20, 28624), (25, 28693), (26, 28705), (30, 28747), (32, 28783), (33, 28810), (34, 28822), (36, 28849), (39, 28939), (40, 28963), (43, 29011), (51, 29095), (59, 29203), (60, 29224), (67, 29317), (68, 29332), (76, 29461), (81, 29542), (85, 29617), (87, 29659), (88, 29665), (95, 29764), (100, 29815), (101, 29827), (104, 29869), (105, 29890), (108, 29944), (109, 29968), (111, 30004), (116, 30100), (118, 30109), (122, 30163), (128, 30271), (129, 30298), (133, 30340), (137, 30412), (145, 30502), (147, 30538),

Gene: Hamish_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Hamish_31:

(Start: 5 @28751 has 276 MA's), (12, 28847), (18, 28925), (19, 28952), (27, 29051), (37, 29210), (44, 29390), (47, 29414), (55, 29504), (56, 29510), (58, 29546), (62, 29585), (64, 29594), (66, 29627), (67, 29666), (69, 29711), (73, 29762), (77, 29813), (78, 29822), (81, 29891), (85, 29966), (88, 30011), (90, 30026), (100, 30161), (104, 30215), (105, 30236), (106, 30269), (109, 30314), (112, 30368), (114, 30395), (116, 30452), (120, 30473), (122, 30515), (123, 30554), (127, 30614), (145, 30854), (146, 30887), (147, 30890), (149, 30923), (150, 30929), (151, 30992),

Gene: Hangman_28 Start: 28965, Stop: 31262, Start Num: 5

Candidate Starts for Hangman_28:

(Start: 1 @28278 has 1 MA's), (2, 28425), (Start: 5 @28965 has 276 MA's), (12, 29064), (13, 29082), (23, 29205), (27, 29268), (31, 29349), (35, 29415), (41, 29532), (42, 29571), (45, 29622), (47, 29631), (52, 29688), (53, 29712), (54, 29715), (58, 29778), (63, 29820), (65, 29832), (70, 29955), (71, 29979), (76, 30042), (82, 30153), (83, 30174), (85, 30210), (86, 30231), (92, 30297), (93, 30309), (94, 30351),

(95, 30360), (96, 30363), (97, 30381), (98, 30384), (99, 30405), (102, 30432), (104, 30465), (105, 30486), (106, 30519), (109, 30564), (117, 30705), (118, 30708), (120, 30720), (124, 30804), (132, 30918), (133, 30939), (134, 30963), (138, 31026), (141, 31056), (145, 31110), (146, 31143), (147, 31146), (151, 31248), (152, 31251),

Gene: Hartsy_30 Start: 28802, Stop: 31057, Start Num: 5

Candidate Starts for Hartsy_30:

(Start: 5 @28802 has 276 MA's), (12, 28898), (18, 28976), (19, 29003), (27, 29102), (37, 29261), (44, 29441), (47, 29465), (55, 29555), (56, 29561), (58, 29597), (62, 29636), (64, 29645), (66, 29678), (67, 29717), (69, 29762), (73, 29813), (77, 29864), (78, 29873), (81, 29942), (85, 30017), (88, 30062), (90, 30077), (100, 30212), (104, 30266), (105, 30287), (106, 30320), (109, 30365), (112, 30419), (114, 30446), (116, 30503), (120, 30524), (122, 30566), (123, 30605), (127, 30665), (145, 30905), (146, 30938), (147, 30941), (149, 30974), (150, 30980), (151, 31043),

Gene: Harvey_31 Start: 28777, Stop: 31032, Start Num: 5

Candidate Starts for Harvey_31:

(Start: 5 @28777 has 276 MA's), (12, 28873), (18, 28951), (19, 28978), (27, 29077), (37, 29236), (44, 29416), (47, 29440), (55, 29530), (56, 29536), (58, 29572), (62, 29611), (64, 29620), (66, 29653), (67, 29692), (69, 29737), (73, 29788), (77, 29839), (78, 29848), (81, 29917), (85, 29992), (88, 30037), (90, 30052), (100, 30187), (104, 30241), (105, 30262), (106, 30295), (109, 30340), (112, 30394), (114, 30421), (116, 30478), (120, 30499), (122, 30541), (123, 30580), (127, 30640), (145, 30880), (146, 30913), (147, 30916), (149, 30949), (150, 30955), (151, 31018),

Gene: HarveySr_31 Start: 28593, Stop: 30821, Start Num: 4

Candidate Starts for HarveySr_31:

(Start: 4 @28593 has 43 MA's), (Start: 7 @28608 has 1 MA's), (9, 28653), (13, 28710), (20, 28788), (25, 28857), (26, 28869), (30, 28911), (32, 28947), (33, 28974), (34, 28986), (36, 29013), (39, 29103), (43, 29175), (51, 29259), (59, 29367), (60, 29388), (67, 29481), (68, 29496), (76, 29625), (81, 29706), (85, 29781), (87, 29823), (88, 29829), (92, 29865), (100, 29979), (101, 29991), (104, 30033), (105, 30054), (108, 30108), (109, 30132), (111, 30168), (116, 30267), (118, 30276), (122, 30330), (128, 30438), (129, 30465), (133, 30507), (137, 30579), (145, 30669), (147, 30705),

Gene: Heath_27 Start: 28566, Stop: 30863, Start Num: 5

Candidate Starts for Heath_27:

(Start: 1 @27879 has 1 MA's), (2, 28026), (3, 28437), (Start: 5 @28566 has 276 MA's), (12, 28665), (19, 28770), (23, 28806), (27, 28869), (31, 28950), (35, 29016), (41, 29133), (42, 29172), (45, 29223), (47, 29232), (52, 29289), (53, 29313), (54, 29316), (58, 29379), (63, 29421), (65, 29433), (70, 29556), (71, 29580), (76, 29643), (82, 29754), (83, 29775), (85, 29811), (86, 29832), (92, 29898), (93, 29910), (95, 29961), (96, 29964), (97, 29982), (99, 30006), (102, 30033), (104, 30066), (105, 30087), (106, 30120), (109, 30165), (117, 30306), (118, 30309), (120, 30321), (124, 30405), (132, 30519), (133, 30540), (134, 30564), (138, 30627), (141, 30657), (142, 30663), (145, 30711), (146, 30744), (147, 30747), (151, 30849), (152, 30852),

Gene: Heathcliff_31 Start: 28575, Stop: 30803, Start Num: 4

Candidate Starts for Heathcliff_31:

(Start: 4 @28575 has 43 MA's), (Start: 7 @28590 has 1 MA's), (9, 28635), (13, 28692), (20, 28770), (25, 28839), (26, 28851), (30, 28893), (32, 28929), (33, 28956), (34, 28968), (36, 28995), (39, 29085), (43, 29157), (51, 29241), (59, 29349), (60, 29370), (67, 29463), (68, 29478), (76, 29607), (81, 29688), (85, 29763), (87, 29805), (88, 29811), (100, 29961), (101, 29973), (104, 30015), (105, 30036), (108, 30090), (109, 30114), (116, 30249), (118, 30258), (122, 30312), (128, 30420), (129, 30447), (133, 30489), (137, 30561), (145, 30651), (147, 30687),

Gene: Held_31 Start: 28466, Stop: 30721, Start Num: 5

Candidate Starts for Held_31:

(Start: 5 @28466 has 276 MA's), (12, 28562), (18, 28640), (19, 28667), (27, 28766), (37, 28925), (44, 29105), (47, 29129), (55, 29219), (56, 29225), (58, 29261), (62, 29300), (64, 29309), (66, 29342), (67, 29381), (69, 29426), (73, 29477), (77, 29528), (78, 29537), (81, 29606), (85, 29681), (88, 29726), (90, 29741), (100, 29876), (104, 29930), (105, 29951), (106, 29984), (109, 30029), (112, 30083), (114, 30110), (116, 30167), (120, 30188), (122, 30230), (123, 30269), (127, 30329), (145, 30569), (147, 30605), (149, 30638), (151, 30707),

Gene: HenryJackson_30 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for HenryJackson_30:

(Start: 5 @28482 has 276 MA's), (12, 28578), (18, 28656), (19, 28683), (27, 28782), (37, 28941), (44, 29121), (47, 29145), (55, 29235), (56, 29241), (58, 29277), (62, 29316), (64, 29325), (66, 29358), (67, 29397), (69, 29442), (73, 29493), (77, 29544), (78, 29553), (81, 29622), (85, 29697), (88, 29742), (90, 29757), (100, 29892), (104, 29946), (105, 29967), (106, 30000), (109, 30045), (112, 30099), (114, 30126), (116, 30183), (120, 30204), (122, 30246), (123, 30285), (127, 30345), (145, 30585), (146, 30618), (147, 30621), (149, 30654), (150, 30660), (151, 30723),

Gene: Hertubise_31 Start: 28773, Stop: 31028, Start Num: 5

Candidate Starts for Hertubise_31:

(Start: 5 @28773 has 276 MA's), (12, 28869), (18, 28947), (19, 28974), (27, 29073), (37, 29232), (44, 29412), (47, 29436), (55, 29526), (56, 29532), (58, 29568), (62, 29607), (64, 29616), (66, 29649), (67, 29688), (69, 29733), (73, 29784), (77, 29835), (78, 29844), (81, 29913), (85, 29988), (88, 30033), (90, 30048), (100, 30183), (104, 30237), (105, 30258), (106, 30291), (109, 30336), (112, 30390), (116, 30474), (120, 30495), (122, 30537), (123, 30576), (127, 30636), (145, 30876), (146, 30909), (147, 30912), (149, 30945), (150, 30951), (151, 31014),

Gene: Hetaeria_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for Hetaeria_31:

(Start: 5 @28775 has 276 MA's), (12, 28871), (18, 28949), (19, 28976), (27, 29075), (37, 29234), (44, 29414), (47, 29438), (55, 29528), (56, 29534), (58, 29570), (62, 29609), (64, 29618), (66, 29651), (67, 29690), (69, 29735), (73, 29786), (77, 29837), (78, 29846), (81, 29915), (85, 29990), (88, 30035), (90, 30050), (100, 30185), (104, 30239), (105, 30260), (106, 30293), (109, 30338), (112, 30392), (116, 30476), (120, 30497), (122, 30539), (123, 30578), (127, 30638), (145, 30878), (146, 30911), (147, 30914), (149, 30947), (150, 30953), (151, 31016),

Gene: HighStump_30 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for HighStump_30:

(Start: 5 @28465 has 276 MA's), (12, 28561), (18, 28639), (19, 28666), (27, 28765), (37, 28924), (44, 29104), (47, 29128), (55, 29218), (56, 29224), (58, 29260), (62, 29299), (64, 29308), (66, 29341), (67, 29380), (69, 29425), (73, 29476), (77, 29527), (78, 29536), (81, 29605), (85, 29680), (88, 29725), (90, 29740), (100, 29875), (104, 29929), (105, 29950), (106, 29983), (109, 30028), (112, 30082), (114, 30109), (116, 30166), (120, 30187), (122, 30229), (123, 30268), (127, 30328), (145, 30568), (146, 30601), (147, 30604), (149, 30637), (150, 30643), (151, 30706),

Gene: Hocus_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Hocus_30:

(Start: 5 @28474 has 276 MA's), (12, 28570), (18, 28648), (19, 28675), (27, 28774), (37, 28933), (44, 29113), (47, 29137), (55, 29227), (56, 29233), (58, 29269), (62, 29308), (64, 29317), (66, 29350), (67, 29389), (69, 29434), (73, 29485), (77, 29536), (78, 29545), (81, 29614), (85, 29689), (88, 29734), (90, 29749), (100, 29884), (104, 29938), (105, 29959), (106, 29992), (109, 30037), (112, 30091), (114, 30118), (116, 30175), (120, 30196), (122, 30238), (123, 30277), (127, 30337), (145, 30577), (146, 30610), (147, 30613), (149, 30646), (150, 30652), (151, 30715),

Gene: Horchata_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for Horchata_31:

(Start: 5 @28753 has 276 MA's), (12, 28849), (18, 28927), (19, 28954), (27, 29053), (37, 29212), (44, 29392), (47, 29416), (56, 29512), (58, 29548), (62, 29587), (64, 29596), (66, 29629), (67, 29668), (69, 29713), (73, 29764), (77, 29815), (78, 29824), (81, 29893), (85, 29968), (88, 30013), (90, 30028), (100, 30163), (104, 30217), (105, 30238), (106, 30271), (109, 30316), (112, 30370), (114, 30397), (116, 30454), (120, 30475), (122, 30517), (123, 30556), (127, 30616), (145, 30856), (147, 30892), (149, 30925), (151, 30994),

Gene: Hydro_28 Start: 28982, Stop: 31279, Start Num: 5

Candidate Starts for Hydro_28:

(Start: 1 @28295 has 1 MA's), (2, 28442), (Start: 5 @28982 has 276 MA's), (12, 29081), (13, 29099), (23, 29222), (27, 29285), (31, 29366), (35, 29432), (41, 29549), (42, 29588), (47, 29648), (52, 29705), (53, 29729), (54, 29732), (58, 29795), (63, 29837), (70, 29972), (71, 29996), (76, 30059), (80, 30098), (82, 30170), (83, 30191), (85, 30227), (86, 30248), (92, 30314), (93, 30326), (95, 30377), (96, 30380), (97, 30398), (99, 30422), (102, 30449), (104, 30482), (105, 30503), (106, 30536), (109, 30581), (117, 30722), (118, 30725), (120, 30737), (124, 30821), (132, 30935), (133, 30956), (134, 30980), (138, 31043), (141, 31073), (142, 31079), (145, 31127), (146, 31160), (147, 31163), (148, 31187), (151, 31265), (152, 31268),

Gene: ImtiyazSitla_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for ImtiyazSitla_30:

(Start: 5 @28315 has 276 MA's), (12, 28411), (18, 28489), (19, 28516), (27, 28615), (37, 28774), (44, 28954), (47, 28978), (56, 29074), (58, 29110), (62, 29149), (64, 29158), (66, 29191), (67, 29230), (69, 29275), (73, 29326), (77, 29377), (78, 29386), (81, 29455), (85, 29530), (88, 29575), (90, 29590), (100, 29725), (104, 29779), (105, 29800), (106, 29833), (109, 29878), (112, 29932), (114, 29959), (116, 30016), (120, 30037), (122, 30079), (123, 30118), (127, 30178), (145, 30418), (147, 30454), (149, 30487), (151, 30556),

Gene: Inchworm_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Inchworm_31:

(Start: 5 @28751 has 276 MA's), (12, 28847), (18, 28925), (19, 28952), (27, 29051), (37, 29210), (44, 29390), (47, 29414), (55, 29504), (56, 29510), (58, 29546), (62, 29585), (64, 29594), (66, 29627), (67, 29666), (69, 29711), (73, 29762), (77, 29813), (78, 29822), (81, 29891), (85, 29966), (88, 30011), (90, 30026), (100, 30161), (104, 30215), (105, 30236), (106, 30269), (109, 30314), (112, 30368), (114, 30395), (116, 30452), (120, 30473), (122, 30515), (123, 30554), (127, 30614), (145, 30854), (147, 30890), (149, 30923), (151, 30992),

Gene: Inverness_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Inverness_31:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (114, 30409), (116, 30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (147, 30904), (149, 30937), (151, 31006),

Gene: Iridoclysis_31 Start: 28745, Stop: 31000, Start Num: 5

Candidate Starts for Iridoclysis_31:

(Start: 5 @28745 has 276 MA's), (12, 28841), (18, 28919), (19, 28946), (27, 29045), (37, 29204), (44, 29384), (47, 29408), (55, 29498), (56, 29504), (58, 29540), (62, 29579), (64, 29588), (66, 29621), (67, 29660), (69, 29705), (73, 29756), (77, 29807), (78, 29816), (81, 29885), (85, 29960), (88, 30005), (90, 30020), (100, 30155), (104, 30209), (105, 30230), (106, 30263), (109, 30308), (112, 30362), (114,

30389), (116, 30446), (120, 30467), (122, 30509), (123, 30548), (127, 30608), (145, 30848), (146, 30881), (147, 30884), (149, 30917), (150, 30923), (151, 30986),

Gene: IsaacEli_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for IsaacEli_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (55, 29522), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: JAMaL_28 Start: 29152, Stop: 31449, Start Num: 5

Candidate Starts for JAMaL_28:

(Start: 5 @29152 has 276 MA's), (12, 29251), (13, 29269), (23, 29392), (27, 29455), (31, 29536), (35, 29602), (41, 29719), (42, 29758), (45, 29809), (47, 29818), (53, 29899), (54, 29902), (58, 29965), (63, 30007), (65, 30019), (70, 30142), (71, 30166), (76, 30229), (80, 30268), (82, 30340), (83, 30361), (85, 30397), (86, 30418), (92, 30484), (93, 30496), (95, 30547), (96, 30550), (97, 30568), (99, 30592), (102, 30619), (104, 30652), (105, 30673), (106, 30706), (109, 30751), (117, 30892), (118, 30895), (120, 30907), (124, 30991), (133, 31126), (134, 31150), (138, 31213), (141, 31243), (142, 31249), (145, 31297), (146, 31330), (147, 31333), (151, 31435), (152, 31438),

Gene: JDog_31 Start: 28478, Stop: 30736, Start Num: 5

Candidate Starts for JDog_31:

(Start: 5 @28478 has 276 MA's), (12, 28574), (18, 28652), (19, 28679), (27, 28781), (37, 28940), (44, 29120), (47, 29144), (55, 29234), (56, 29240), (58, 29276), (62, 29315), (64, 29324), (66, 29357), (67, 29396), (69, 29441), (73, 29492), (77, 29543), (78, 29552), (81, 29621), (85, 29696), (88, 29741), (90, 29756), (100, 29891), (104, 29945), (105, 29966), (106, 29999), (109, 30044), (112, 30098), (114, 30125), (116, 30182), (120, 30203), (122, 30245), (123, 30284), (127, 30344), (145, 30584), (147, 30620), (149, 30653), (151, 30722),

Gene: JacAttac_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for JacAttac_31:

(Start: 5 @28751 has 276 MA's), (12, 28847), (18, 28925), (19, 28952), (27, 29051), (37, 29210), (44, 29390), (47, 29414), (55, 29504), (56, 29510), (58, 29546), (62, 29585), (64, 29594), (66, 29627), (67, 29666), (69, 29711), (73, 29762), (77, 29813), (78, 29822), (81, 29891), (85, 29966), (88, 30011), (90, 30026), (100, 30161), (104, 30215), (105, 30236), (106, 30269), (109, 30314), (112, 30368), (116, 30452), (120, 30473), (122, 30515), (123, 30554), (127, 30614), (145, 30854), (146, 30887), (147, 30890), (149, 30923), (150, 30929), (151, 30992),

Gene: Jackstina_28 Start: 28536, Stop: 30761, Start Num: 4

Candidate Starts for Jackstina_28:

(Start: 4 @28536 has 43 MA's), (Start: 7 @28551 has 1 MA's), (9, 28596), (13, 28653), (20, 28731), (25, 28800), (26, 28812), (30, 28854), (32, 28890), (33, 28917), (34, 28929), (36, 28956), (39, 29046), (43, 29118), (51, 29202), (59, 29310), (60, 29331), (67, 29424), (68, 29439), (76, 29568), (81, 29649), (85, 29724), (87, 29766), (88, 29772), (92, 29808), (100, 29922), (101, 29934), (104, 29976), (105, 29997), (108, 30051), (109, 30075), (111, 30111), (116, 30207), (118, 30216), (122, 30270), (128, 30378), (129, 30405), (133, 30447), (137, 30519), (145, 30609), (147, 30645),

Gene: JaguarMi_28 Start: 28450, Stop: 30738, Start Num: 5

Candidate Starts for JaguarMi_28:

(Start: 5 @28450 has 276 MA's), (12, 28549), (13, 28567), (19, 28654), (23, 28690), (27, 28753), (31, 28834), (35, 28900), (41, 29017), (42, 29056), (45, 29107), (47, 29116), (52, 29173), (53, 29197), (54,

29200), (58, 29263), (71, 29464), (74, 29494), (75, 29497), (76, 29527), (82, 29638), (83, 29659), (85, 29695), (86, 29716), (92, 29782), (93, 29794), (95, 29845), (96, 29848), (99, 29890), (102, 29917), (104, 29950), (105, 29971), (106, 30004), (107, 30007), (109, 30049), (110, 30061), (116, 30184), (118, 30193), (120, 30205), (121, 30229), (122, 30247), (123, 30286), (124, 30289), (126, 30343), (128, 30355), (132, 30403), (133, 30424), (145, 30586), (146, 30619), (147, 30622), (151, 30724),

Gene: JakeO_30 Start: 28481, Stop: 30739, Start Num: 5

Candidate Starts for JakeO_30:

(Start: 5 @28481 has 276 MA's), (12, 28577), (18, 28655), (19, 28682), (27, 28784), (37, 28943), (44, 29123), (47, 29147), (49, 29159), (56, 29243), (58, 29279), (62, 29318), (64, 29327), (66, 29360), (67, 29399), (69, 29444), (73, 29495), (77, 29546), (78, 29555), (81, 29624), (85, 29699), (88, 29744), (90, 29759), (100, 29894), (104, 29948), (105, 29969), (106, 30002), (109, 30047), (112, 30101), (114, 30128), (116, 30185), (120, 30206), (122, 30248), (123, 30287), (127, 30347), (145, 30587), (147, 30623), (149, 30656), (151, 30725),

Gene: JangoPhett_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for JangoPhett_31:

(Start: 5 @28752 has 276 MA's), (12, 28848), (18, 28926), (19, 28953), (27, 29052), (37, 29211), (44, 29391), (47, 29415), (55, 29505), (56, 29511), (58, 29547), (62, 29586), (64, 29595), (66, 29628), (67, 29667), (69, 29712), (73, 29763), (77, 29814), (78, 29823), (81, 29892), (85, 29967), (88, 30012), (90, 30027), (100, 30162), (104, 30216), (105, 30237), (106, 30270), (109, 30315), (112, 30369), (114, 30396), (116, 30453), (120, 30474), (122, 30516), (123, 30555), (127, 30615), (145, 30855), (146, 30888), (147, 30891), (149, 30924), (150, 30930), (151, 30993),

Gene: Jillium_30 Start: 28475, Stop: 30730, Start Num: 5

Candidate Starts for Jillium_30:

(Start: 5 @28475 has 276 MA's), (12, 28571), (18, 28649), (19, 28676), (27, 28775), (37, 28934), (44, 29114), (47, 29138), (55, 29228), (56, 29234), (58, 29270), (62, 29309), (64, 29318), (66, 29351), (67, 29390), (69, 29435), (73, 29486), (77, 29537), (78, 29546), (81, 29615), (85, 29690), (88, 29735), (90, 29750), (100, 29885), (104, 29939), (105, 29960), (106, 29993), (109, 30038), (112, 30092), (114, 30119), (116, 30176), (120, 30197), (122, 30239), (123, 30278), (127, 30338), (145, 30578), (146, 30611), (147, 30614), (149, 30647), (150, 30653), (151, 30716),

Gene: Jiminy_30 Start: 28319, Stop: 30574, Start Num: 5

Candidate Starts for Jiminy_30:

(Start: 5 @28319 has 276 MA's), (12, 28415), (18, 28493), (19, 28520), (27, 28619), (37, 28778), (44, 28958), (47, 28982), (56, 29078), (58, 29114), (62, 29153), (64, 29162), (66, 29195), (67, 29234), (69, 29279), (73, 29330), (78, 29390), (81, 29459), (85, 29534), (88, 29579), (90, 29594), (100, 29729), (104, 29783), (105, 29804), (106, 29837), (109, 29882), (112, 29936), (114, 29963), (116, 30020), (120, 30041), (122, 30083), (123, 30122), (127, 30182), (145, 30422), (146, 30455), (147, 30458), (149, 30491), (151, 30560),

Gene: Jiraiya_31 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Jiraiya_31:

(Start: 5 @28472 has 276 MA's), (12, 28568), (18, 28646), (19, 28673), (27, 28772), (37, 28931), (44, 29111), (47, 29135), (55, 29225), (56, 29231), (58, 29267), (62, 29306), (64, 29315), (66, 29348), (67, 29387), (69, 29432), (73, 29483), (77, 29534), (78, 29543), (81, 29612), (85, 29687), (88, 29732), (90, 29747), (100, 29882), (104, 29936), (105, 29957), (106, 29990), (109, 30035), (112, 30089), (114, 30116), (116, 30173), (120, 30194), (122, 30236), (123, 30275), (127, 30335), (145, 30575), (147, 30611), (149, 30644), (151, 30713),

Gene: KLucky39_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for KLucky39_31:

(Start: 5 @28763 has 276 MA's), (12, 28859), (18, 28937), (19, 28964), (27, 29063), (37, 29222), (44, 29402), (47, 29426), (55, 29516), (56, 29522), (58, 29558), (62, 29597), (64, 29606), (66, 29639), (67, 29678), (69, 29723), (73, 29774), (77, 29825), (78, 29834), (81, 29903), (85, 29978), (88, 30023), (90, 30038), (100, 30173), (104, 30227), (105, 30248), (106, 30281), (109, 30326), (112, 30380), (114, 30407), (116, 30464), (120, 30485), (122, 30527), (123, 30566), (127, 30626), (145, 30866), (146, 30899), (147, 30902), (149, 30935), (150, 30941), (151, 31004),

Gene: Kahve_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Kahve_30:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (55, 29232), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67, 29394), (69, 29439), (73, 29490), (77, 29541), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (146, 30615), (147, 30618), (149, 30651), (150, 30657), (151, 30720),

Gene: Kailash_31 Start: 28817, Stop: 31072, Start Num: 5

Candidate Starts for Kailash_31:

(Start: 5 @28817 has 276 MA's), (12, 28913), (18, 28991), (19, 29018), (27, 29117), (37, 29276), (44, 29456), (47, 29480), (55, 29570), (56, 29576), (58, 29612), (62, 29651), (64, 29660), (66, 29693), (67, 29732), (69, 29777), (73, 29828), (77, 29879), (78, 29888), (81, 29957), (85, 30032), (88, 30077), (90, 30092), (100, 30227), (104, 30281), (105, 30302), (106, 30335), (109, 30380), (112, 30434), (114, 30461), (116, 30518), (120, 30539), (122, 30581), (123, 30620), (127, 30680), (145, 30920), (146, 30953), (147, 30956), (149, 30989), (150, 30995), (151, 31058),

Gene: Kamiyu_31 Start: 28582, Stop: 30807, Start Num: 4

Candidate Starts for Kamiyu_31:

(Start: 4 @28582 has 43 MA's), (Start: 7 @28597 has 1 MA's), (9, 28642), (13, 28699), (20, 28777), (25, 28846), (26, 28858), (30, 28900), (32, 28936), (33, 28963), (34, 28975), (36, 29002), (39, 29092), (43, 29164), (51, 29248), (59, 29356), (60, 29377), (67, 29470), (68, 29485), (76, 29614), (81, 29695), (85, 29770), (87, 29812), (88, 29818), (95, 29917), (100, 29968), (101, 29980), (104, 30022), (105, 30043), (108, 30097), (109, 30121), (111, 30157), (116, 30253), (118, 30262), (122, 30316), (128, 30424), (129, 30451), (133, 30493), (137, 30565), (145, 30655), (147, 30691),

Gene: Katniss_31 Start: 28778, Stop: 31033, Start Num: 5

Candidate Starts for Katniss_31:

(Start: 5 @28778 has 276 MA's), (12, 28874), (18, 28952), (19, 28979), (27, 29078), (37, 29237), (44, 29417), (47, 29441), (55, 29531), (56, 29537), (58, 29573), (62, 29612), (64, 29621), (66, 29654), (67, 29693), (69, 29738), (73, 29789), (77, 29840), (78, 29849), (81, 29918), (85, 29993), (88, 30038), (90, 30053), (100, 30188), (104, 30242), (105, 30263), (106, 30296), (109, 30341), (112, 30395), (116, 30479), (120, 30500), (122, 30542), (123, 30581), (127, 30641), (145, 30881), (146, 30914), (147, 30917), (149, 30950), (150, 30956), (151, 31019),

Gene: Keitherie_31 Start: 28810, Stop: 31071, Start Num: 5

Candidate Starts for Keitherie_31:

(Start: 5 @28810 has 276 MA's), (12, 28906), (18, 28984), (19, 29011), (24, 29086), (27, 29116), (37, 29275), (44, 29455), (47, 29479), (56, 29575), (58, 29611), (62, 29650), (64, 29659), (66, 29692), (67, 29731), (69, 29776), (73, 29827), (78, 29887), (81, 29956), (85, 30031), (88, 30076), (90, 30091), (100, 30226), (104, 30280), (105, 30301), (106, 30334), (109, 30379), (112, 30433), (114, 30460), (116, 30517), (120, 30538), (122, 30580), (123, 30619), (127, 30679), (145, 30919), (147, 30955), (149, 30988), (151, 31057),

Gene: Kikipoo_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Kikipoo_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (55, 29522), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: Kimbrough_31 Start: 28471, Stop: 30726, Start Num: 5

Candidate Starts for Kimbrough_31:

(Start: 5 @28471 has 276 MA's), (12, 28567), (18, 28645), (19, 28672), (27, 28771), (37, 28930), (44, 29110), (47, 29134), (55, 29224), (56, 29230), (58, 29266), (62, 29305), (64, 29314), (66, 29347), (67, 29386), (69, 29431), (73, 29482), (77, 29533), (78, 29542), (81, 29611), (85, 29686), (88, 29731), (90, 29746), (100, 29881), (104, 29935), (105, 29956), (106, 29989), (109, 30034), (112, 30088), (114, 30115), (116, 30172), (120, 30193), (122, 30235), (123, 30274), (127, 30334), (145, 30574), (146, 30607), (147, 30610), (149, 30643), (150, 30649), (151, 30712),

Gene: KingTut_22 Start: 24140, Stop: 26395, Start Num: 5

Candidate Starts for KingTut_22:

(Start: 5 @24140 has 276 MA's), (12, 24236), (18, 24314), (19, 24341), (27, 24440), (37, 24599), (44, 24779), (47, 24803), (56, 24899), (58, 24935), (62, 24974), (64, 24983), (66, 25016), (67, 25055), (69, 25100), (73, 25151), (77, 25202), (78, 25211), (81, 25280), (85, 25355), (88, 25400), (90, 25415), (100, 25550), (104, 25604), (105, 25625), (106, 25658), (109, 25703), (112, 25757), (114, 25784), (116, 25841), (120, 25862), (122, 25904), (123, 25943), (127, 26003), (145, 26243), (147, 26279), (149, 26312), (151, 26381),

Gene: KingVeVeVe_31 Start: 28744, Stop: 30999, Start Num: 5

Candidate Starts for KingVeVeVe_31:

(Start: 5 @28744 has 276 MA's), (12, 28840), (18, 28918), (19, 28945), (27, 29044), (37, 29203), (44, 29383), (47, 29407), (56, 29503), (58, 29539), (62, 29578), (64, 29587), (66, 29620), (67, 29659), (69, 29704), (73, 29755), (77, 29806), (78, 29815), (81, 29884), (85, 29959), (88, 30004), (90, 30019), (100, 30154), (104, 30208), (105, 30229), (106, 30262), (109, 30307), (112, 30361), (114, 30388), (116, 30445), (120, 30466), (122, 30508), (123, 30547), (127, 30607), (145, 30847), (147, 30883), (149, 30916), (151, 30985),

Gene: KlimbOn_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for KlimbOn_31:

(Start: 5 @28757 has 276 MA's), (12, 28853), (18, 28931), (19, 28958), (27, 29057), (37, 29216), (44, 29396), (47, 29420), (56, 29516), (58, 29552), (62, 29591), (64, 29600), (66, 29633), (67, 29672), (69, 29717), (73, 29768), (77, 29819), (78, 29828), (81, 29897), (85, 29972), (88, 30017), (90, 30032), (100, 30167), (104, 30221), (105, 30242), (106, 30275), (109, 30320), (112, 30374), (114, 30401), (116, 30458), (120, 30479), (122, 30521), (123, 30560), (127, 30620), (145, 30860), (147, 30896), (149, 30929), (151, 30998),

Gene: Kloppinator_31 Start: 28780, Stop: 31035, Start Num: 5

Candidate Starts for Kloppinator_31:

(Start: 5 @28780 has 276 MA's), (12, 28876), (18, 28954), (19, 28981), (27, 29080), (37, 29239), (44, 29419), (47, 29443), (55, 29533), (56, 29539), (58, 29575), (62, 29614), (64, 29623), (66, 29656), (67, 29695), (69, 29740), (73, 29791), (77, 29842), (78, 29851), (81, 29920), (85, 29995), (88, 30040), (90, 30055), (100, 30190), (104, 30244), (105, 30265), (106, 30298), (109, 30343), (112, 30397), (116, 30481), (120, 30502), (122, 30544), (123, 30583), (127, 30643), (145, 30883), (146, 30916), (147, 30919), (149, 30952), (150, 30958), (151, 31021),

Gene: Kronus_30 Start: 29196, Stop: 31421, Start Num: 4

Candidate Starts for Kronus_30:

(Start: 4 @29196 has 43 MA's), (9, 29256), (13, 29313), (25, 29460), (26, 29472), (30, 29514), (32, 29550), (33, 29577), (34, 29589), (36, 29616), (39, 29706), (43, 29778), (51, 29862), (59, 29970), (60, 29991), (67, 30084), (68, 30099), (76, 30228), (81, 30309), (85, 30384), (87, 30426), (88, 30432), (92, 30468), (100, 30582), (101, 30594), (104, 30636), (105, 30657), (108, 30711), (109, 30735), (111, 30771), (116, 30867), (118, 30876), (122, 30930), (128, 31038), (129, 31065), (133, 31107), (137, 31179), (145, 31269), (147, 31305),

Gene: Kwadwo_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Kwadwo_30:

(Start: 5 @28461 has 276 MA's), (12, 28557), (18, 28635), (19, 28662), (27, 28761), (37, 28920), (44, 29100), (47, 29124), (55, 29214), (56, 29220), (58, 29256), (62, 29295), (64, 29304), (66, 29337), (67, 29376), (69, 29421), (73, 29472), (77, 29523), (78, 29532), (81, 29601), (85, 29676), (88, 29721), (90, 29736), (100, 29871), (104, 29925), (105, 29946), (106, 29979), (109, 30024), (112, 30078), (114, 30105), (116, 30162), (120, 30183), (122, 30225), (123, 30264), (127, 30324), (145, 30564), (146, 30597), (147, 30600), (149, 30633), (150, 30639), (151, 30702),

Gene: Kwksand96_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Kwksand96_30:

(Start: 5 @28329 has 276 MA's), (12, 28425), (18, 28503), (19, 28530), (27, 28629), (37, 28788), (44, 28968), (47, 28992), (56, 29088), (58, 29124), (62, 29163), (64, 29172), (66, 29205), (67, 29244), (69, 29289), (73, 29340), (77, 29391), (78, 29400), (81, 29469), (85, 29544), (88, 29589), (90, 29604), (100, 29739), (104, 29793), (105, 29814), (106, 29847), (109, 29892), (112, 29946), (114, 29973), (116, 30030), (120, 30051), (122, 30093), (123, 30132), (127, 30192), (145, 30432), (147, 30468), (149, 30501), (151, 30570),

Gene: Labeouficaum_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for Labeouficaum_30:

(Start: 5 @28325 has 276 MA's), (12, 28421), (18, 28499), (19, 28526), (27, 28625), (37, 28784), (44, 28964), (47, 28988), (56, 29084), (58, 29120), (62, 29159), (64, 29168), (66, 29201), (67, 29240), (69, 29285), (73, 29336), (78, 29396), (81, 29465), (85, 29540), (88, 29585), (90, 29600), (100, 29735), (104, 29789), (105, 29810), (106, 29843), (109, 29888), (112, 29942), (114, 29969), (116, 30026), (120, 30047), (122, 30089), (123, 30128), (127, 30188), (145, 30428), (146, 30461), (147, 30464), (149, 30497), (151, 30566),

Gene: LasagnaCat_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for LasagnaCat_31:

(Start: 5 @28763 has 276 MA's), (12, 28859), (18, 28937), (19, 28964), (27, 29063), (37, 29222), (44, 29402), (47, 29426), (55, 29516), (56, 29522), (58, 29558), (62, 29597), (64, 29606), (66, 29639), (67, 29678), (69, 29723), (73, 29774), (77, 29825), (78, 29834), (81, 29903), (85, 29978), (88, 30023), (90, 30038), (100, 30173), (104, 30227), (105, 30248), (106, 30281), (109, 30326), (112, 30380), (114, 30407), (116, 30464), (120, 30485), (122, 30527), (123, 30566), (127, 30626), (145, 30866), (146, 30899), (147, 30902), (149, 30935), (150, 30941), (151, 31004),

Gene: Lasso_31 Start: 28736, Stop: 30991, Start Num: 5

Candidate Starts for Lasso_31:

(Start: 5 @28736 has 276 MA's), (12, 28832), (18, 28910), (19, 28937), (27, 29036), (37, 29195), (44, 29375), (47, 29399), (55, 29489), (56, 29495), (58, 29531), (62, 29570), (64, 29579), (66, 29612), (67, 29651), (69, 29696), (73, 29747), (77, 29798), (78, 29807), (81, 29876), (85, 29951), (88, 29996), (90, 30011), (100, 30146), (104, 30200), (105, 30221), (106, 30254), (109, 30299), (112, 30353), (114, 30380), (116, 30437), (120, 30458), (122, 30500), (123, 30539), (127, 30599), (145, 30839), (147, 30875), (149, 30908), (151, 30977),

Gene: LeeLot_31 Start: 28767, Stop: 31022, Start Num: 5

Candidate Starts for LeeLot_31:

(Start: 5 @28767 has 276 MA's), (12, 28863), (18, 28941), (19, 28968), (27, 29067), (37, 29226), (44, 29406), (47, 29430), (55, 29520), (56, 29526), (58, 29562), (62, 29601), (64, 29610), (66, 29643), (67, 29682), (69, 29727), (73, 29778), (77, 29829), (78, 29838), (81, 29907), (85, 29982), (88, 30027), (90, 30042), (100, 30177), (104, 30231), (105, 30252), (106, 30285), (109, 30330), (112, 30384), (114, 30411), (116, 30468), (120, 30489), (122, 30531), (123, 30570), (127, 30630), (145, 30870), (147, 30906), (149, 30939), (151, 31008),

Gene: Lego3393_31 Start: 28772, Stop: 31027, Start Num: 5

Candidate Starts for Lego3393_31:

(Start: 5 @28772 has 276 MA's), (12, 28868), (18, 28946), (19, 28973), (27, 29072), (37, 29231), (44, 29411), (47, 29435), (55, 29525), (56, 29531), (58, 29567), (62, 29606), (64, 29615), (66, 29648), (67, 29687), (69, 29732), (73, 29783), (77, 29834), (78, 29843), (81, 29912), (85, 29987), (88, 30032), (90, 30047), (100, 30182), (104, 30236), (105, 30257), (106, 30290), (109, 30335), (112, 30389), (114, 30416), (116, 30473), (120, 30494), (122, 30536), (123, 30575), (127, 30635), (145, 30875), (146, 30908), (147, 30911), (149, 30944), (150, 30950), (151, 31013),

Gene: Legolas_30 Start: 28477, Stop: 30732, Start Num: 5

Candidate Starts for Legolas_30:

(Start: 5 @28477 has 276 MA's), (12, 28573), (18, 28651), (19, 28678), (27, 28777), (37, 28936), (44, 29116), (47, 29140), (55, 29230), (56, 29236), (58, 29272), (62, 29311), (64, 29320), (66, 29353), (67, 29392), (69, 29437), (73, 29488), (77, 29539), (78, 29548), (81, 29617), (85, 29692), (88, 29737), (90, 29752), (100, 29887), (104, 29941), (105, 29962), (106, 29995), (109, 30040), (112, 30094), (114, 30121), (116, 30178), (120, 30199), (122, 30241), (123, 30280), (127, 30340), (145, 30580), (146, 30613), (147, 30616), (149, 30649), (150, 30655), (151, 30718),

Gene: LeiMonet_31 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for LeiMonet_31:

(Start: 5 @28468 has 276 MA's), (12, 28564), (18, 28642), (19, 28669), (27, 28768), (37, 28927), (44, 29107), (47, 29131), (55, 29221), (56, 29227), (58, 29263), (62, 29302), (64, 29311), (66, 29344), (67, 29383), (69, 29428), (73, 29479), (77, 29530), (78, 29539), (81, 29608), (85, 29683), (88, 29728), (90, 29743), (100, 29878), (104, 29932), (105, 29953), (106, 29986), (109, 30031), (112, 30085), (114, 30112), (116, 30169), (120, 30190), (122, 30232), (123, 30271), (127, 30331), (145, 30571), (147, 30607), (149, 30640), (151, 30709),

Gene: LemonSlice_31 Start: 28464, Stop: 30719, Start Num: 5

Candidate Starts for LemonSlice_31:

(Start: 5 @28464 has 276 MA's), (12, 28560), (18, 28638), (19, 28665), (27, 28764), (37, 28923), (44, 29103), (47, 29127), (55, 29217), (56, 29223), (58, 29259), (62, 29298), (64, 29307), (66, 29340), (67, 29379), (69, 29424), (73, 29475), (77, 29526), (78, 29535), (81, 29604), (85, 29679), (88, 29724), (90, 29739), (100, 29874), (104, 29928), (105, 29949), (106, 29982), (109, 30027), (112, 30081), (114, 30108), (116, 30165), (120, 30186), (122, 30228), (123, 30267), (127, 30327), (145, 30567), (146, 30600), (147, 30603), (149, 30636), (150, 30642), (151, 30705),

Gene: LestyG_31 Start: 28617, Stop: 30842, Start Num: 4

Candidate Starts for LestyG_31:

(Start: 4 @28617 has 43 MA's), (Start: 7 @28632 has 1 MA's), (9, 28677), (13, 28734), (20, 28812), (25, 28881), (26, 28893), (30, 28935), (32, 28971), (33, 28998), (34, 29010), (36, 29037), (39, 29127), (43, 29199), (51, 29283), (59, 29391), (60, 29412), (67, 29505), (68, 29520), (76, 29649), (81, 29730), (85, 29805), (87, 29847), (88, 29853), (92, 29889), (100, 30003), (101, 30015), (104, 30057), (105, 30078), (108, 30132), (109, 30156), (111, 30192), (116, 30288), (118, 30297), (122, 30351), (128,

30459), (129, 30486), (133, 30528), (137, 30600), (145, 30690), (147, 30726),

Gene: Lolalove_28 Start: 28979, Stop: 31276, Start Num: 5

Candidate Starts for Lolalove_28:

(Start: 1 @28292 has 1 MA's), (2, 28439), (Start: 5 @28979 has 276 MA's), (12, 29078), (13, 29096), (23, 29219), (27, 29282), (31, 29363), (35, 29429), (41, 29546), (42, 29585), (45, 29636), (47, 29645), (52, 29702), (53, 29726), (54, 29729), (58, 29792), (63, 29834), (65, 29846), (70, 29969), (71, 29993), (74, 30023), (75, 30026), (76, 30056), (82, 30167), (83, 30188), (84, 30209), (85, 30224), (86, 30245), (92, 30311), (95, 30374), (96, 30377), (97, 30395), (99, 30419), (102, 30446), (104, 30479), (105, 30500), (106, 30533), (109, 30578), (117, 30719), (120, 30734), (124, 30818), (132, 30932), (133, 30953), (134, 30977), (138, 31040), (141, 31070), (145, 31124), (146, 31157), (147, 31160), (151, 31262), (152, 31265),

Gene: Longacauda_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Longacauda_30:

(Start: 5 @28469 has 276 MA's), (12, 28565), (18, 28643), (19, 28670), (27, 28769), (37, 28928), (44, 29108), (47, 29132), (56, 29228), (58, 29264), (62, 29303), (64, 29312), (66, 29345), (67, 29384), (69, 29429), (73, 29480), (77, 29531), (78, 29540), (81, 29609), (85, 29684), (88, 29729), (90, 29744), (100, 29879), (104, 29933), (105, 29954), (106, 29987), (109, 30032), (112, 30086), (114, 30113), (116, 30170), (120, 30191), (122, 30233), (123, 30272), (127, 30332), (145, 30572), (147, 30608), (149, 30641), (151, 30710),

Gene: Lopsy_30 Start: 28319, Stop: 30574, Start Num: 5

Candidate Starts for Lopsy_30:

(Start: 5 @28319 has 276 MA's), (12, 28415), (18, 28493), (19, 28520), (27, 28619), (37, 28778), (44, 28958), (47, 28982), (56, 29078), (58, 29114), (62, 29153), (64, 29162), (66, 29195), (67, 29234), (69, 29279), (73, 29330), (77, 29381), (78, 29390), (81, 29459), (85, 29534), (88, 29579), (90, 29594), (100, 29729), (104, 29783), (105, 29804), (106, 29837), (109, 29882), (112, 29936), (114, 29963), (116, 30020), (120, 30041), (122, 30083), (123, 30122), (127, 30182), (145, 30422), (147, 30458), (149, 30491), (151, 30560),

Gene: LostAndPhound_30 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for LostAndPhound_30:

(Start: 5 @28470 has 276 MA's), (12, 28566), (18, 28644), (19, 28671), (27, 28770), (37, 28929), (44, 29109), (47, 29133), (55, 29223), (56, 29229), (58, 29265), (62, 29304), (64, 29313), (66, 29346), (67, 29385), (69, 29430), (73, 29481), (77, 29532), (78, 29541), (81, 29610), (85, 29685), (88, 29730), (90, 29745), (100, 29880), (104, 29934), (105, 29955), (106, 29988), (109, 30033), (112, 30087), (114, 30114), (116, 30171), (120, 30192), (122, 30234), (123, 30273), (127, 30333), (145, 30573), (147, 30609), (149, 30642), (151, 30711),

Gene: LuckyMarjie_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for LuckyMarjie_30:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (55, 29232), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67, 29394), (69, 29439), (73, 29490), (77, 29541), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (147, 30618), (149, 30651), (151, 30720),

Gene: Lulumae_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Lulumae_30:

(Start: 5 @28461 has 276 MA's), (12, 28557), (18, 28635), (19, 28662), (27, 28761), (37, 28920), (44, 29100), (47, 29124), (55, 29214), (56, 29220), (58, 29256), (62, 29295), (64, 29304), (66, 29337), (67,

29376), (69, 29421), (73, 29472), (77, 29523), (78, 29532), (81, 29601), (85, 29676), (88, 29721), (90, 29736), (100, 29871), (104, 29925), (105, 29946), (106, 29979), (109, 30024), (112, 30078), (116, 30162), (120, 30183), (122, 30225), (123, 30264), (127, 30324), (145, 30564), (146, 30597), (147, 30600), (149, 30633), (150, 30639), (151, 30702),

Gene: Lulwa_31 Start: 28748, Stop: 31003, Start Num: 5

Candidate Starts for Lulwa_31:

(Start: 5 @28748 has 276 MA's), (12, 28844), (18, 28922), (19, 28949), (27, 29048), (37, 29207), (44, 29387), (47, 29411), (55, 29501), (56, 29507), (58, 29543), (62, 29582), (64, 29591), (66, 29624), (67, 29663), (69, 29708), (73, 29759), (77, 29810), (78, 29819), (81, 29888), (85, 29963), (88, 30008), (90, 30023), (100, 30158), (104, 30212), (105, 30233), (106, 30266), (109, 30311), (112, 30365), (114, 30392), (116, 30449), (120, 30470), (122, 30512), (123, 30551), (127, 30611), (145, 30851), (147, 30887), (149, 30920), (151, 30989),

Gene: Lumine_30 Start: 28457, Stop: 30712, Start Num: 5

Candidate Starts for Lumine_30:

(Start: 5 @28457 has 276 MA's), (12, 28553), (18, 28631), (19, 28658), (27, 28757), (37, 28916), (44, 29096), (47, 29120), (55, 29210), (56, 29216), (58, 29252), (62, 29291), (64, 29300), (66, 29333), (67, 29372), (69, 29417), (73, 29468), (77, 29519), (78, 29528), (81, 29597), (85, 29672), (88, 29717), (90, 29732), (100, 29867), (104, 29921), (105, 29942), (106, 29975), (109, 30020), (112, 30074), (114, 30101), (116, 30158), (120, 30179), (122, 30221), (123, 30260), (127, 30320), (145, 30560), (146, 30593), (147, 30596), (149, 30629), (150, 30635), (151, 30698),

Gene: MRabcd_30 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for MRabcd_30:

(Start: 5 @28461 has 276 MA's), (12, 28557), (18, 28635), (19, 28662), (27, 28761), (37, 28920), (44, 29100), (47, 29124), (55, 29214), (56, 29220), (58, 29256), (62, 29295), (64, 29304), (66, 29337), (67, 29376), (69, 29421), (73, 29472), (77, 29523), (78, 29532), (81, 29601), (85, 29676), (88, 29721), (90, 29736), (100, 29871), (104, 29925), (105, 29946), (106, 29979), (109, 30024), (112, 30078), (114, 30105), (116, 30162), (120, 30183), (122, 30225), (123, 30264), (127, 30324), (145, 30564), (146, 30597), (147, 30600), (149, 30633), (150, 30639), (151, 30702),

Gene: Mag7_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for Mag7_30:

(Start: 5 @28367 has 276 MA's), (12, 28463), (18, 28541), (19, 28568), (27, 28667), (37, 28826), (44, 29006), (47, 29030), (55, 29120), (56, 29126), (58, 29162), (62, 29201), (64, 29210), (66, 29243), (67, 29282), (69, 29327), (73, 29378), (77, 29429), (78, 29438), (81, 29507), (85, 29582), (88, 29627), (90, 29642), (100, 29777), (104, 29831), (105, 29852), (106, 29885), (109, 29930), (112, 29984), (114, 30011), (116, 30068), (120, 30089), (122, 30131), (123, 30170), (127, 30230), (145, 30470), (146, 30503), (147, 30506), (149, 30539), (150, 30545), (151, 30608),

Gene: Magic8_31 Start: 28802, Stop: 31057, Start Num: 5

Candidate Starts for Magic8_31:

(Start: 5 @28802 has 276 MA's), (12, 28898), (18, 28976), (19, 29003), (27, 29102), (37, 29261), (44, 29441), (47, 29465), (55, 29555), (56, 29561), (58, 29597), (62, 29636), (64, 29645), (66, 29678), (67, 29717), (69, 29762), (73, 29813), (77, 29864), (78, 29873), (81, 29942), (85, 30017), (88, 30062), (90, 30077), (100, 30212), (104, 30266), (105, 30287), (106, 30320), (109, 30365), (112, 30419), (114, 30446), (116, 30503), (120, 30524), (122, 30566), (123, 30605), (127, 30665), (145, 30905), (147, 30941), (149, 30974), (151, 31043),

Gene: Magpie_27 Start: 28808, Stop: 31105, Start Num: 5

Candidate Starts for Magpie_27:

(Start: 5 @28808 has 276 MA's), (12, 28907), (13, 28925), (27, 29111), (31, 29192), (35, 29258), (41, 29375), (42, 29414), (45, 29465), (47, 29474), (52, 29531), (53, 29555), (58, 29621), (63, 29663), (65, 29675), (71, 29822), (76, 29885), (82, 29996), (83, 30017), (86, 30074), (92, 30140), (93, 30152), (95, 30203), (96, 30206), (97, 30224), (99, 30248), (102, 30275), (104, 30308), (105, 30329), (106, 30362), (109, 30407), (117, 30548), (118, 30551), (120, 30563), (124, 30647), (132, 30761), (133, 30782), (134, 30806), (138, 30869), (141, 30899), (142, 30905), (145, 30953), (146, 30986), (147, 30989), (151, 31091), (152, 31094),

Gene: Mana_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Mana_30:

(Start: 5 @28476 has 276 MA's), (12, 28572), (18, 28650), (19, 28677), (27, 28776), (37, 28935), (44, 29115), (47, 29139), (55, 29229), (56, 29235), (58, 29271), (62, 29310), (64, 29319), (66, 29352), (67, 29391), (69, 29436), (73, 29487), (77, 29538), (78, 29547), (81, 29616), (85, 29691), (88, 29736), (90, 29751), (100, 29886), (104, 29940), (105, 29961), (106, 29994), (109, 30039), (112, 30093), (114, 30120), (116, 30177), (120, 30198), (122, 30240), (123, 30279), (127, 30339), (145, 30579), (147, 30615), (149, 30648), (151, 30717),

Gene: Manad_30 Start: 28315, Stop: 30573, Start Num: 5

Candidate Starts for Manad_30:

(Start: 5 @28315 has 276 MA's), (12, 28411), (18, 28489), (19, 28516), (27, 28618), (37, 28777), (44, 28957), (47, 28981), (56, 29077), (58, 29113), (62, 29152), (64, 29161), (66, 29194), (67, 29233), (69, 29278), (73, 29329), (77, 29380), (78, 29389), (81, 29458), (85, 29533), (88, 29578), (90, 29593), (100, 29728), (104, 29782), (105, 29803), (106, 29836), (109, 29881), (112, 29935), (116, 30019), (120, 30040), (122, 30082), (123, 30121), (127, 30181), (145, 30421), (146, 30454), (147, 30457), (149, 30490), (150, 30496), (151, 30559),

Gene: Marley1013_31 Start: 29395, Stop: 31620, Start Num: 4

Candidate Starts for Marley1013_31:

(Start: 4 @29395 has 43 MA's), (Start: 7 @29410 has 1 MA's), (9, 29455), (13, 29512), (20, 29590), (25, 29659), (26, 29671), (30, 29713), (32, 29749), (33, 29776), (34, 29788), (36, 29815), (39, 29905), (43, 29977), (51, 30061), (59, 30169), (60, 30190), (67, 30283), (68, 30298), (76, 30427), (81, 30508), (85, 30583), (87, 30625), (88, 30631), (92, 30667), (100, 30781), (101, 30793), (104, 30835), (105, 30856), (108, 30910), (109, 30934), (116, 31066), (118, 31075), (122, 31129), (128, 31237), (129, 31264), (133, 31306), (137, 31378), (145, 31468), (147, 31504),

Gene: Maru_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Maru_30:

(Start: 5 @28469 has 276 MA's), (12, 28565), (18, 28643), (19, 28670), (27, 28769), (37, 28928), (44, 29108), (47, 29132), (55, 29222), (56, 29228), (58, 29264), (62, 29303), (64, 29312), (66, 29345), (67, 29384), (69, 29429), (73, 29480), (77, 29531), (78, 29540), (81, 29609), (85, 29684), (88, 29729), (90, 29744), (100, 29879), (104, 29933), (105, 29954), (106, 29987), (109, 30032), (112, 30086), (114, 30113), (116, 30170), (120, 30191), (122, 30233), (123, 30272), (127, 30332), (145, 30572), (147, 30608), (149, 30641), (151, 30710),

Gene: Maskar_30 Start: 28315, Stop: 30570, Start Num: 5

Candidate Starts for Maskar_30:

(Start: 5 @28315 has 276 MA's), (12, 28411), (18, 28489), (19, 28516), (27, 28615), (37, 28774), (44, 28954), (47, 28978), (56, 29074), (58, 29110), (62, 29149), (64, 29158), (66, 29191), (67, 29230), (69, 29275), (73, 29326), (77, 29377), (78, 29386), (81, 29455), (85, 29530), (88, 29575), (90, 29590), (100, 29725), (104, 29779), (105, 29800), (106, 29833), (109, 29878), (112, 29932), (114, 29959), (116, 30016), (120, 30037), (122, 30079), (123, 30118), (127, 30178), (145, 30418), (147, 30454), (149, 30487), (151, 30556),

Gene: Matalotodo_30 Start: 28762, Stop: 31017, Start Num: 5

Candidate Starts for Matalotodo_30:

(Start: 5 @28762 has 276 MA's), (12, 28858), (18, 28936), (19, 28963), (27, 29062), (37, 29221), (44, 29401), (47, 29425), (55, 29515), (56, 29521), (58, 29557), (62, 29596), (64, 29605), (66, 29638), (67, 29677), (69, 29722), (73, 29773), (77, 29824), (78, 29833), (81, 29902), (85, 29977), (88, 30022), (90, 30037), (100, 30172), (104, 30226), (105, 30247), (106, 30280), (109, 30325), (112, 30379), (114, 30406), (116, 30463), (120, 30484), (122, 30526), (123, 30565), (127, 30625), (145, 30865), (147, 30901), (149, 30934), (151, 31003),

Gene: Mcshane_30 Start: 28459, Stop: 30714, Start Num: 5

Candidate Starts for Mcshane_30:

(Start: 5 @28459 has 276 MA's), (12, 28555), (18, 28633), (19, 28660), (27, 28759), (37, 28918), (44, 29098), (47, 29122), (55, 29212), (56, 29218), (58, 29254), (62, 29293), (64, 29302), (66, 29335), (67, 29374), (69, 29419), (73, 29470), (77, 29521), (78, 29530), (81, 29599), (85, 29674), (88, 29719), (90, 29734), (100, 29869), (104, 29923), (105, 29944), (106, 29977), (109, 30022), (112, 30076), (114, 30103), (116, 30160), (120, 30181), (122, 30223), (123, 30262), (127, 30322), (145, 30562), (147, 30598), (149, 30631), (151, 30700),

Gene: Mecca_30 Start: 28462, Stop: 30717, Start Num: 5

Candidate Starts for Mecca_30:

(Start: 5 @28462 has 276 MA's), (12, 28558), (18, 28636), (19, 28663), (27, 28762), (37, 28921), (44, 29101), (47, 29125), (55, 29215), (56, 29221), (58, 29257), (62, 29296), (64, 29305), (66, 29338), (67, 29377), (69, 29422), (73, 29473), (77, 29524), (78, 29533), (81, 29602), (85, 29677), (88, 29722), (90, 29737), (100, 29872), (104, 29926), (105, 29947), (106, 29980), (109, 30025), (112, 30079), (114, 30106), (116, 30163), (120, 30184), (122, 30226), (123, 30265), (127, 30325), (145, 30565), (146, 30598), (147, 30601), (149, 30634), (150, 30640), (151, 30703),

Gene: Megamind20_31 Start: 28484, Stop: 30739, Start Num: 5

Candidate Starts for Megamind20_31:

(Start: 5 @28484 has 276 MA's), (12, 28580), (18, 28658), (19, 28685), (27, 28784), (37, 28943), (44, 29123), (47, 29147), (55, 29237), (56, 29243), (58, 29279), (62, 29318), (64, 29327), (66, 29360), (67, 29399), (69, 29444), (73, 29495), (77, 29546), (78, 29555), (81, 29624), (85, 29699), (88, 29744), (90, 29759), (100, 29894), (104, 29948), (105, 29969), (106, 30002), (109, 30047), (112, 30101), (114, 30128), (116, 30185), (120, 30206), (122, 30248), (123, 30287), (127, 30347), (145, 30587), (146, 30620), (147, 30623), (149, 30656), (150, 30662), (151, 30725),

Gene: Megatron_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Megatron_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (55, 29513), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (114, 30404), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (146, 30896), (147, 30899), (149, 30932), (150, 30938), (151, 31001),

Gene: Melc17_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Melc17_31:

(Start: 5 @28757 has 276 MA's), (12, 28853), (18, 28931), (19, 28958), (27, 29057), (37, 29216), (44, 29396), (47, 29420), (55, 29510), (56, 29516), (58, 29552), (62, 29591), (64, 29600), (66, 29633), (67, 29672), (69, 29717), (73, 29768), (77, 29819), (78, 29828), (81, 29897), (85, 29972), (88, 30017), (90, 30032), (100, 30167), (104, 30221), (105, 30242), (106, 30275), (109, 30320), (112, 30374), (114, 30401), (116, 30458), (120, 30479), (122, 30521), (123, 30560), (127, 30620), (145, 30860), (146, 30893), (147, 30896), (149, 30929), (150, 30935), (151, 30998),

Gene: MelsMeow_30 Start: 28361, Stop: 30619, Start Num: 5

Candidate Starts for MelsMeow_30:

(Start: 5 @28361 has 276 MA's), (12, 28457), (18, 28535), (19, 28562), (27, 28664), (37, 28823), (44, 29003), (47, 29027), (49, 29039), (56, 29123), (58, 29159), (62, 29198), (64, 29207), (66, 29240), (67, 29279), (69, 29324), (73, 29375), (77, 29426), (78, 29435), (81, 29504), (85, 29579), (88, 29624), (90, 29639), (100, 29774), (104, 29828), (105, 29849), (106, 29882), (109, 29927), (112, 29981), (114, 30008), (116, 30065), (120, 30086), (122, 30128), (123, 30167), (127, 30227), (145, 30467), (147, 30503), (149, 30536), (151, 30605),

Gene: Mesh1_31 Start: 28774, Stop: 31029, Start Num: 5

Candidate Starts for Mesh1_31:

(Start: 5 @28774 has 276 MA's), (12, 28870), (18, 28948), (19, 28975), (27, 29074), (37, 29233), (44, 29413), (47, 29437), (55, 29527), (56, 29533), (58, 29569), (62, 29608), (64, 29617), (66, 29650), (67, 29689), (69, 29734), (73, 29785), (77, 29836), (78, 29845), (81, 29914), (85, 29989), (88, 30034), (90, 30049), (100, 30184), (104, 30238), (105, 30259), (106, 30292), (109, 30337), (112, 30391), (114, 30418), (116, 30475), (120, 30496), (122, 30538), (123, 30577), (127, 30637), (145, 30877), (146, 30910), (147, 30913), (149, 30946), (150, 30952), (151, 31015),

Gene: MichaelPhcott_30 Start: 28364, Stop: 30619, Start Num: 5

Candidate Starts for MichaelPhcott_30:

(Start: 5 @28364 has 276 MA's), (12, 28460), (18, 28538), (19, 28565), (27, 28664), (37, 28823), (44, 29003), (47, 29027), (55, 29117), (56, 29123), (58, 29159), (62, 29198), (64, 29207), (66, 29240), (67, 29279), (69, 29324), (73, 29375), (77, 29426), (78, 29435), (81, 29504), (85, 29579), (88, 29624), (90, 29639), (100, 29774), (104, 29828), (105, 29849), (106, 29882), (109, 29927), (112, 29981), (114, 30008), (116, 30065), (120, 30086), (122, 30128), (123, 30167), (127, 30227), (145, 30467), (146, 30500), (147, 30503), (149, 30536), (150, 30542), (151, 30605),

Gene: Mikota_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Mikota_31:

(Start: 5 @28747 has 276 MA's), (12, 28843), (18, 28921), (19, 28948), (27, 29047), (37, 29206), (44, 29386), (47, 29410), (56, 29506), (58, 29542), (62, 29581), (64, 29590), (66, 29623), (67, 29662), (69, 29707), (73, 29758), (77, 29809), (78, 29818), (81, 29887), (85, 29962), (88, 30007), (90, 30022), (100, 30157), (104, 30211), (105, 30232), (106, 30265), (109, 30310), (112, 30364), (114, 30391), (116, 30448), (120, 30469), (122, 30511), (123, 30550), (127, 30610), (145, 30850), (146, 30883), (147, 30886), (149, 30919), (150, 30925), (151, 30988),

Gene: MiniBoss_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for MiniBoss_31:

(Start: 5 @28753 has 276 MA's), (12, 28849), (18, 28927), (19, 28954), (27, 29053), (37, 29212), (44, 29392), (47, 29416), (56, 29512), (58, 29548), (62, 29587), (64, 29596), (66, 29629), (67, 29668), (69, 29713), (73, 29764), (77, 29815), (78, 29824), (81, 29893), (85, 29968), (88, 30013), (90, 30028), (100, 30163), (104, 30217), (105, 30238), (106, 30271), (109, 30316), (112, 30370), (114, 30397), (116, 30454), (120, 30475), (122, 30517), (123, 30556), (127, 30616), (145, 30856), (147, 30892), (149, 30925), (151, 30994),

Gene: MitKao_31 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for MitKao_31:

(Start: 5 @28468 has 276 MA's), (12, 28564), (18, 28642), (19, 28669), (27, 28768), (37, 28927), (44, 29107), (47, 29131), (55, 29221), (56, 29227), (58, 29263), (62, 29302), (64, 29311), (66, 29344), (67, 29383), (69, 29428), (73, 29479), (77, 29530), (78, 29539), (81, 29608), (85, 29683), (88, 29728), (90, 29743), (100, 29878), (104, 29932), (105, 29953), (106, 29986), (109, 30031), (112, 30085), (114, 30112), (116, 30169), (120, 30190), (122, 30232), (123, 30271), (127, 30331), (145, 30571), (146,

30604), (147, 30607), (149, 30640), (150, 30646), (151, 30709),

Gene: Mithril_28 Start: 28983, Stop: 31280, Start Num: 5

Candidate Starts for Mithril_28:

(Start: 1 @28296 has 1 MA's), (2, 28443), (Start: 5 @28983 has 276 MA's), (12, 29082), (13, 29100), (23, 29223), (27, 29286), (31, 29367), (35, 29433), (41, 29550), (42, 29589), (45, 29640), (47, 29649), (52, 29706), (53, 29730), (54, 29733), (58, 29796), (63, 29838), (65, 29850), (70, 29973), (71, 29997), (74, 30027), (75, 30030), (76, 30060), (82, 30171), (83, 30192), (84, 30213), (85, 30228), (86, 30249), (92, 30315), (93, 30327), (95, 30378), (96, 30381), (97, 30399), (99, 30423), (102, 30450), (104, 30483), (105, 30504), (106, 30537), (109, 30582), (117, 30723), (118, 30726), (120, 30738), (124, 30822), (132, 30936), (133, 30957), (134, 30981), (138, 31044), (141, 31074), (142, 31080), (145, 31128), (146, 31161), (147, 31164), (151, 31266), (152, 31269),

Gene: MmasiCarm_31 Start: 28599, Stop: 30824, Start Num: 4

Candidate Starts for MmasiCarm_31:

(Start: 4 @28599 has 43 MA's), (Start: 7 @28614 has 1 MA's), (9, 28659), (13, 28716), (20, 28794), (25, 28863), (26, 28875), (30, 28917), (32, 28953), (33, 28980), (34, 28992), (36, 29019), (39, 29109), (43, 29181), (51, 29265), (59, 29373), (60, 29394), (67, 29487), (68, 29502), (76, 29631), (81, 29712), (85, 29787), (87, 29829), (88, 29835), (92, 29871), (100, 29985), (101, 29997), (104, 30039), (105, 30060), (108, 30114), (109, 30138), (111, 30174), (116, 30270), (118, 30279), (122, 30333), (128, 30441), (129, 30468), (133, 30510), (137, 30582), (145, 30672), (147, 30708),

Gene: Morgushi_31 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Morgushi_31:

(Start: 5 @28469 has 276 MA's), (12, 28565), (18, 28643), (19, 28670), (27, 28769), (37, 28928), (44, 29108), (47, 29132), (56, 29228), (58, 29264), (62, 29303), (64, 29312), (66, 29345), (67, 29384), (69, 29429), (73, 29480), (77, 29531), (78, 29540), (81, 29609), (85, 29684), (88, 29729), (90, 29744), (100, 29879), (104, 29933), (105, 29954), (106, 29987), (109, 30032), (112, 30086), (114, 30113), (116, 30170), (120, 30191), (122, 30233), (123, 30272), (127, 30332), (145, 30572), (147, 30608), (149, 30641), (151, 30710),

Gene: Mortcellus_30 Start: 29251, Stop: 31476, Start Num: 4

Candidate Starts for Mortcellus_30:

(Start: 4 @29251 has 43 MA's), (Start: 7 @29266 has 1 MA's), (9, 29311), (13, 29368), (20, 29446), (25, 29515), (26, 29527), (30, 29569), (32, 29605), (33, 29632), (34, 29644), (36, 29671), (39, 29761), (43, 29833), (51, 29917), (59, 30025), (60, 30046), (67, 30139), (68, 30154), (76, 30283), (81, 30364), (85, 30439), (87, 30481), (88, 30487), (92, 30523), (100, 30637), (101, 30649), (104, 30691), (105, 30712), (108, 30766), (109, 30790), (111, 30826), (116, 30922), (118, 30931), (122, 30985), (128, 31093), (129, 31120), (133, 31162), (137, 31234), (145, 31324), (147, 31360),

Gene: Morty_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Morty_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (55, 29522), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (114, 30413), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: Morty007_31 Start: 29395, Stop: 31620, Start Num: 4

Candidate Starts for Morty007_31:

(Start: 4 @29395 has 43 MA's), (Start: 7 @29410 has 1 MA's), (9, 29455), (13, 29512), (20, 29590), (25, 29659), (26, 29671), (30, 29713), (32, 29749), (33, 29776), (34, 29788), (36, 29815), (39, 29905),

(43, 29977), (51, 30061), (59, 30169), (60, 30190), (67, 30283), (68, 30298), (76, 30427), (81, 30508), (85, 30583), (87, 30625), (88, 30631), (92, 30667), (100, 30781), (101, 30793), (104, 30835), (105, 30856), (108, 30910), (109, 30934), (116, 31066), (118, 31075), (122, 31129), (128, 31237), (129, 31264), (133, 31306), (137, 31378), (145, 31468), (147, 31504),

Gene: Mosaic_30 Start: 28474, Stop: 30729, Start Num: 5

Candidate Starts for Mosaic_30:

(Start: 5 @28474 has 276 MA's), (12, 28570), (18, 28648), (19, 28675), (27, 28774), (37, 28933), (44, 29113), (47, 29137), (55, 29227), (56, 29233), (58, 29269), (62, 29308), (64, 29317), (66, 29350), (67, 29389), (69, 29434), (73, 29485), (77, 29536), (78, 29545), (81, 29614), (85, 29689), (88, 29734), (90, 29749), (100, 29884), (104, 29938), (105, 29959), (106, 29992), (109, 30037), (112, 30091), (114, 30118), (116, 30175), (120, 30196), (122, 30238), (123, 30277), (127, 30337), (145, 30577), (146, 30610), (147, 30613), (149, 30646), (150, 30652), (151, 30715),

Gene: MrPhizzler_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for MrPhizzler_30:

(Start: 5 @28476 has 276 MA's), (12, 28572), (18, 28650), (19, 28677), (27, 28776), (37, 28935), (44, 29115), (47, 29139), (56, 29235), (58, 29271), (62, 29310), (64, 29319), (66, 29352), (67, 29391), (69, 29436), (73, 29487), (77, 29538), (78, 29547), (81, 29616), (85, 29691), (88, 29736), (90, 29751), (100, 29886), (104, 29940), (105, 29961), (106, 29994), (109, 30039), (112, 30093), (114, 30120), (116, 30177), (120, 30198), (122, 30240), (123, 30279), (127, 30339), (145, 30579), (147, 30615), (149, 30648), (151, 30717),

Gene: Mudslide_28 Start: 29215, Stop: 31512, Start Num: 5

Candidate Starts for Mudslide_28:

(Start: 1 @28528 has 1 MA's), (2, 28675), (Start: 5 @29215 has 276 MA's), (12, 29314), (13, 29332), (23, 29455), (27, 29518), (31, 29599), (35, 29665), (41, 29782), (42, 29821), (45, 29872), (47, 29881), (52, 29938), (53, 29962), (54, 29965), (58, 30028), (63, 30070), (65, 30082), (69, 30193), (70, 30205), (71, 30229), (76, 30292), (82, 30403), (83, 30424), (85, 30460), (86, 30481), (92, 30547), (93, 30559), (95, 30610), (96, 30613), (97, 30631), (99, 30655), (102, 30682), (104, 30715), (105, 30736), (106, 30769), (109, 30814), (117, 30955), (118, 30958), (119, 30961), (120, 30970), (124, 31054), (132, 31168), (133, 31189), (134, 31213), (138, 31276), (141, 31306), (142, 31312), (145, 31360), (146, 31393), (147, 31396), (151, 31498), (152, 31501),

Gene: Mulan_30 Start: 28486, Stop: 30741, Start Num: 5

Candidate Starts for Mulan_30:

(Start: 5 @28486 has 276 MA's), (12, 28582), (18, 28660), (19, 28687), (27, 28786), (37, 28945), (44, 29125), (47, 29149), (55, 29239), (56, 29245), (58, 29281), (62, 29320), (64, 29329), (66, 29362), (67, 29401), (69, 29446), (73, 29497), (77, 29548), (78, 29557), (81, 29626), (85, 29701), (88, 29746), (90, 29761), (100, 29896), (104, 29950), (105, 29971), (106, 30004), (109, 30049), (112, 30103), (116, 30187), (120, 30208), (122, 30250), (123, 30289), (127, 30349), (145, 30589), (146, 30622), (147, 30625), (149, 30658), (150, 30664), (151, 30727),

Gene: Murdoc_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Murdoc_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (55, 29514), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (147, 30900), (149, 30933), (151, 31002),

Gene: Mutante_30 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for Mutante_30:

(Start: 5 @28468 has 276 MA's), (12, 28564), (18, 28642), (19, 28669), (27, 28768), (37, 28927), (44, 29107), (47, 29131), (55, 29221), (56, 29227), (58, 29263), (62, 29302), (64, 29311), (66, 29344), (67, 29383), (69, 29428), (73, 29479), (77, 29530), (78, 29539), (81, 29608), (85, 29683), (88, 29728), (90, 29743), (100, 29878), (104, 29932), (105, 29953), (106, 29986), (109, 30031), (112, 30085), (114, 30112), (116, 30169), (120, 30190), (122, 30232), (123, 30271), (127, 30331), (145, 30571), (147, 30607), (149, 30640), (151, 30709),

Gene: Mysterious_31 Start: 29235, Stop: 31496, Start Num: 5

Candidate Starts for Mysterious_31:

(Start: 5 @29235 has 276 MA's), (12, 29331), (16, 29388), (17, 29406), (21, 29451), (41, 29799), (48, 29901), (51, 29931), (52, 29955), (53, 29979), (54, 29982), (62, 30072), (65, 30087), (74, 30264), (77, 30300), (80, 30336), (81, 30378), (85, 30453), (88, 30504), (98, 30627), (100, 30654), (104, 30708), (105, 30729), (106, 30762), (116, 30942), (118, 30951), (120, 30963), (123, 31044), (124, 31047), (126, 31101), (128, 31113), (130, 31143), (132, 31161), (136, 31227), (140, 31275), (145, 31344), (151, 31482), (152, 31485),

Gene: Nacho_0031 Start: 28760, Stop: 31018, Start Num: 5

Candidate Starts for Nacho_0031:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29063), (37, 29222), (44, 29402), (47, 29426), (56, 29522), (58, 29558), (62, 29597), (64, 29606), (66, 29639), (67, 29678), (69, 29723), (73, 29774), (77, 29825), (78, 29834), (81, 29903), (85, 29978), (88, 30023), (90, 30038), (100, 30173), (104, 30227), (105, 30248), (106, 30281), (109, 30326), (112, 30380), (116, 30464), (120, 30485), (122, 30527), (123, 30566), (127, 30626), (145, 30866), (146, 30899), (147, 30902), (149, 30935), (150, 30941), (151, 31004),

Gene: Nanao_27 Start: 27940, Stop: 30237, Start Num: 5

Candidate Starts for Nanao_27:

(Start: 5 @27940 has 276 MA's), (12, 28039), (19, 28144), (23, 28180), (27, 28243), (31, 28324), (35, 28390), (37, 28402), (41, 28507), (42, 28546), (45, 28597), (47, 28606), (53, 28687), (54, 28690), (58, 28753), (63, 28795), (65, 28807), (70, 28930), (71, 28954), (76, 29017), (79, 29047), (80, 29056), (82, 29128), (83, 29149), (85, 29185), (86, 29206), (92, 29272), (93, 29284), (95, 29335), (96, 29338), (97, 29356), (99, 29380), (102, 29407), (104, 29440), (105, 29461), (106, 29494), (109, 29539), (117, 29680), (118, 29683), (120, 29695), (124, 29779), (133, 29914), (134, 29938), (138, 30001), (141, 30031), (142, 30037), (145, 30085), (146, 30118), (147, 30121), (151, 30223), (152, 30226),

Gene: Nangang_30 Start: 28934, Stop: 31201, Start Num: 5

Candidate Starts for Nangang_30:

(Start: 5 @28934 has 276 MA's), (8, 28982), (11, 29012), (12, 29030), (14, 29066), (16, 29087), (17, 29105), (23, 29168), (28, 29273), (37, 29396), (38, 29402), (41, 29501), (48, 29603), (52, 29657), (62, 29777), (65, 29792), (66, 29819), (77, 30005), (80, 30041), (81, 30083), (85, 30158), (88, 30209), (92, 30245), (95, 30308), (98, 30332), (100, 30359), (108, 30488), (109, 30512), (116, 30647), (118, 30656), (120, 30668), (122, 30710), (123, 30749), (124, 30752), (126, 30806), (128, 30818), (130, 30848), (132, 30866), (136, 30932), (145, 31049), (151, 31187),

Gene: Neos5_31 Start: 29411, Stop: 31639, Start Num: 4

Candidate Starts for Neos5_31:

(Start: 4 @29411 has 43 MA's), (Start: 7 @29426 has 1 MA's), (9, 29471), (13, 29528), (20, 29606), (25, 29675), (26, 29687), (30, 29729), (32, 29765), (33, 29792), (34, 29804), (36, 29831), (39, 29921), (40, 29945), (43, 29993), (51, 30077), (59, 30185), (60, 30206), (67, 30299), (68, 30314), (76, 30443), (81, 30524), (85, 30599), (88, 30647), (95, 30746), (100, 30797), (101, 30809), (104, 30851), (105, 30872), (108, 30926), (109, 30950), (111, 30986), (116, 31085), (118, 31094), (122, 31148), (128, 31256), (129, 31283), (133, 31325), (137, 31397), (145, 31487), (147, 31523),

Gene: Newman_31 Start: 28756, Stop: 31014, Start Num: 5

Candidate Starts for Newman_31:

(Start: 5 @28756 has 276 MA's), (12, 28852), (18, 28930), (19, 28957), (27, 29059), (37, 29218), (44, 29398), (47, 29422), (56, 29518), (58, 29554), (62, 29593), (64, 29602), (66, 29635), (67, 29674), (69, 29719), (73, 29770), (77, 29821), (78, 29830), (81, 29899), (85, 29974), (88, 30019), (90, 30034), (100, 30169), (104, 30223), (105, 30244), (106, 30277), (109, 30322), (112, 30376), (116, 30460), (120, 30481), (122, 30523), (123, 30562), (127, 30622), (145, 30862), (146, 30895), (147, 30898), (149, 30931), (150, 30937), (151, 31000),

Gene: Nicole21_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Nicole21_31:

(Start: 5 @28758 has 276 MA's), (12, 28854), (18, 28932), (19, 28959), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (55, 29511), (56, 29517), (58, 29553), (62, 29592), (64, 29601), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (114, 30402), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146, 30894), (147, 30897), (149, 30930), (150, 30936), (151, 30999),

Gene: Nigel_26 Start: 27851, Stop: 30148, Start Num: 5

Candidate Starts for Nigel_26:

(3, 27722), (Start: 5 @27851 has 276 MA's), (12, 27950), (13, 27968), (27, 28154), (29, 28199), (31, 28235), (35, 28301), (41, 28418), (42, 28457), (43, 28463), (53, 28598), (54, 28601), (58, 28664), (63, 28706), (65, 28718), (71, 28865), (76, 28928), (80, 28967), (82, 29039), (83, 29060), (84, 29081), (85, 29096), (86, 29117), (88, 29147), (92, 29183), (93, 29195), (95, 29246), (96, 29249), (97, 29267), (99, 29291), (100, 29297), (104, 29351), (105, 29372), (108, 29426), (109, 29450), (116, 29585), (117, 29591), (118, 29594), (119, 29597), (120, 29606), (133, 29825), (134, 29849), (138, 29912), (142, 29948), (143, 29981), (145, 29996), (146, 30029), (147, 30032), (151, 30134), (152, 30137),

Gene: Nozo_31 Start: 29375, Stop: 31600, Start Num: 4

Candidate Starts for Nozo_31:

(Start: 4 @29375 has 43 MA's), (Start: 7 @29390 has 1 MA's), (9, 29435), (13, 29492), (20, 29570), (25, 29639), (26, 29651), (30, 29693), (32, 29729), (33, 29756), (34, 29768), (36, 29795), (39, 29885), (43, 29957), (51, 30041), (59, 30149), (60, 30170), (67, 30263), (68, 30278), (76, 30407), (81, 30488), (85, 30563), (87, 30605), (88, 30611), (95, 30710), (100, 30761), (101, 30773), (104, 30815), (105, 30836), (108, 30890), (109, 30914), (111, 30950), (116, 31046), (118, 31055), (122, 31109), (128, 31217), (129, 31244), (133, 31286), (137, 31358), (145, 31448), (147, 31484),

Gene: Numberten_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Numberten_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Nyala_30 Start: 28460, Stop: 30715, Start Num: 5

Candidate Starts for Nyala_30:

(Start: 5 @28460 has 276 MA's), (12, 28556), (18, 28634), (19, 28661), (27, 28760), (37, 28919), (44, 29099), (47, 29123), (55, 29213), (56, 29219), (58, 29255), (62, 29294), (64, 29303), (66, 29336), (67, 29375), (69, 29420), (73, 29471), (77, 29522), (78, 29531), (81, 29600), (85, 29675), (88, 29720), (90, 29735), (100, 29870), (104, 29924), (105, 29945), (106, 29978), (109, 30023), (112, 30077), (114,

30104), (116, 30161), (120, 30182), (122, 30224), (123, 30263), (127, 30323), (145, 30563), (146, 30596), (147, 30599), (149, 30632), (150, 30638), (151, 30701),

Gene: OSmaximus_31 Start: 28795, Stop: 31056, Start Num: 5

Candidate Starts for OSmaximus_31:

(Start: 5 @28795 has 276 MA's), (12, 28891), (18, 28969), (19, 28996), (24, 29071), (27, 29101), (37, 29260), (44, 29440), (47, 29464), (56, 29560), (58, 29596), (62, 29635), (64, 29644), (66, 29677), (67, 29716), (69, 29761), (73, 29812), (78, 29872), (81, 29941), (85, 30016), (88, 30061), (90, 30076), (100, 30211), (104, 30265), (105, 30286), (106, 30319), (109, 30364), (112, 30418), (114, 30445), (116, 30502), (120, 30523), (122, 30565), (123, 30604), (127, 30664), (145, 30904), (147, 30940), (149, 30973), (151, 31042),

Gene: Obutu_31 Start: 28599, Stop: 30824, Start Num: 4

Candidate Starts for Obutu_31:

(Start: 4 @28599 has 43 MA's), (9, 28659), (13, 28716), (25, 28863), (26, 28875), (30, 28917), (32, 28953), (33, 28980), (34, 28992), (36, 29019), (39, 29109), (43, 29181), (51, 29265), (59, 29373), (60, 29394), (67, 29487), (68, 29502), (76, 29631), (81, 29712), (85, 29787), (87, 29829), (88, 29835), (92, 29871), (100, 29985), (101, 29997), (104, 30039), (105, 30060), (108, 30114), (109, 30138), (111, 30174), (116, 30270), (118, 30279), (122, 30333), (128, 30441), (129, 30468), (133, 30510), (137, 30582), (145, 30672), (147, 30708),

Gene: Olak_31 Start: 28464, Stop: 30719, Start Num: 5

Candidate Starts for Olak_31:

(Start: 5 @28464 has 276 MA's), (12, 28560), (18, 28638), (19, 28665), (27, 28764), (37, 28923), (44, 29103), (47, 29127), (55, 29217), (56, 29223), (58, 29259), (62, 29298), (64, 29307), (66, 29340), (67, 29379), (69, 29424), (73, 29475), (77, 29526), (78, 29535), (81, 29604), (85, 29679), (88, 29724), (90, 29739), (100, 29874), (104, 29928), (105, 29949), (106, 29982), (109, 30027), (112, 30081), (116, 30165), (120, 30186), (122, 30228), (123, 30267), (127, 30327), (145, 30567), (146, 30600), (147, 30603), (149, 30636), (150, 30642), (151, 30705),

Gene: Oline_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Oline_30:

(Start: 5 @28329 has 276 MA's), (12, 28425), (18, 28503), (19, 28530), (27, 28629), (37, 28788), (44, 28968), (47, 28992), (56, 29088), (58, 29124), (62, 29163), (64, 29172), (66, 29205), (67, 29244), (69, 29289), (73, 29340), (77, 29391), (78, 29400), (81, 29469), (85, 29544), (88, 29589), (90, 29604), (100, 29739), (104, 29793), (105, 29814), (106, 29847), (109, 29892), (112, 29946), (114, 29973), (116, 30030), (120, 30051), (122, 30093), (123, 30132), (127, 30192), (145, 30432), (146, 30465), (147, 30468), (149, 30501), (150, 30507), (151, 30570),

Gene: Olive_31 Start: 28750, Stop: 31005, Start Num: 5

Candidate Starts for Olive_31:

(Start: 5 @28750 has 276 MA's), (12, 28846), (18, 28924), (19, 28951), (27, 29050), (37, 29209), (44, 29389), (47, 29413), (55, 29503), (56, 29509), (58, 29545), (62, 29584), (64, 29593), (66, 29626), (67, 29665), (69, 29710), (73, 29761), (77, 29812), (78, 29821), (81, 29890), (85, 29965), (88, 30010), (90, 30025), (100, 30160), (104, 30214), (105, 30235), (106, 30268), (109, 30313), (112, 30367), (116, 30451), (120, 30472), (122, 30514), (123, 30553), (127, 30613), (145, 30853), (146, 30886), (147, 30889), (149, 30922), (150, 30928), (151, 30991),

Gene: OliverWalter_31 Start: 28769, Stop: 31027, Start Num: 5

Candidate Starts for OliverWalter_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29072), (37, 29231), (44, 29411), (47, 29435), (56, 29531), (58, 29567), (62, 29606), (64, 29615), (66, 29648), (67, 29687), (69, 29732), (73, 29783), (77, 29834), (78, 29843), (81, 29912), (85, 29987), (88, 30032), (90, 30047),

(100, 30182), (104, 30236), (105, 30257), (106, 30290), (109, 30335), (112, 30389), (116, 30473), (120, 30494), (122, 30536), (123, 30575), (127, 30635), (145, 30875), (146, 30908), (147, 30911), (149, 30944), (150, 30950), (151, 31013),

Gene: Omniscient_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Omniscient_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (55, 29522), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (114, 30413), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: Oosterbaan_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Oosterbaan_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (55, 29513), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (114, 30404), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (147, 30899), (149, 30932), (151, 31001),

Gene: OrangeOswald_31 Start: 28613, Stop: 30841, Start Num: 4

Candidate Starts for OrangeOswald_31:

(Start: 4 @28613 has 43 MA's), (Start: 7 @28628 has 1 MA's), (9, 28673), (13, 28730), (20, 28808), (25, 28877), (26, 28889), (30, 28931), (32, 28967), (33, 28994), (34, 29006), (36, 29033), (39, 29123), (43, 29195), (51, 29279), (59, 29387), (60, 29408), (67, 29501), (68, 29516), (76, 29645), (81, 29726), (85, 29801), (87, 29843), (88, 29849), (100, 29999), (101, 30011), (104, 30053), (105, 30074), (108, 30128), (109, 30152), (116, 30287), (118, 30296), (122, 30350), (128, 30458), (129, 30485), (133, 30527), (137, 30599), (145, 30689), (147, 30725),

Gene: Orfeu_30 Start: 28468, Stop: 30723, Start Num: 5

Candidate Starts for Orfeu_30:

(Start: 5 @28468 has 276 MA's), (12, 28564), (18, 28642), (19, 28669), (27, 28768), (37, 28927), (44, 29107), (47, 29131), (55, 29221), (56, 29227), (58, 29263), (62, 29302), (64, 29311), (66, 29344), (67, 29383), (69, 29428), (73, 29479), (77, 29530), (78, 29539), (81, 29608), (85, 29683), (88, 29728), (90, 29743), (100, 29878), (104, 29932), (105, 29953), (106, 29986), (109, 30031), (112, 30085), (114, 30112), (116, 30169), (120, 30190), (122, 30232), (123, 30271), (127, 30331), (145, 30571), (146, 30604), (147, 30607), (149, 30640), (150, 30646), (151, 30709),

Gene: Orion_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Orion_31:

(Start: 5 @28758 has 276 MA's), (12, 28854), (18, 28932), (19, 28959), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (55, 29511), (56, 29517), (58, 29553), (62, 29592), (64, 29601), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146, 30894), (147, 30897), (149, 30930), (150, 30936), (151, 30999),

Gene: Orwigg_31 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Orwigg_31:

(Start: 5 @28456 has 276 MA's), (12, 28552), (18, 28630), (19, 28657), (27, 28756), (37, 28915), (44, 29095), (47, 29119), (55, 29209), (56, 29215), (58, 29251), (62, 29290), (64, 29299), (66, 29332), (67,

29371), (69, 29416), (73, 29467), (77, 29518), (78, 29527), (81, 29596), (85, 29671), (88, 29716), (90, 29731), (100, 29866), (104, 29920), (105, 29941), (106, 29974), (109, 30019), (112, 30073), (114, 30100), (116, 30157), (120, 30178), (122, 30220), (123, 30259), (127, 30319), (145, 30559), (146, 30592), (147, 30595), (149, 30628), (150, 30634), (151, 30697),

Gene: PG1_31 Start: 28771, Stop: 31026, Start Num: 5

Candidate Starts for PG1_31:

(Start: 5 @28771 has 276 MA's), (12, 28867), (18, 28945), (19, 28972), (27, 29071), (37, 29230), (44, 29410), (47, 29434), (55, 29524), (56, 29530), (58, 29566), (62, 29605), (64, 29614), (66, 29647), (67, 29686), (69, 29731), (73, 29782), (77, 29833), (78, 29842), (81, 29911), (85, 29986), (88, 30031), (90, 30046), (100, 30181), (104, 30235), (105, 30256), (106, 30289), (109, 30334), (112, 30388), (116, 30472), (120, 30493), (122, 30535), (123, 30574), (127, 30634), (145, 30874), (146, 30907), (147, 30910), (149, 30943), (150, 30949), (151, 31012),

Gene: Pacifista_32 Start: 28462, Stop: 30717, Start Num: 5

Candidate Starts for Pacifista_32:

(Start: 5 @28462 has 276 MA's), (12, 28558), (18, 28636), (19, 28663), (27, 28762), (37, 28921), (44, 29101), (47, 29125), (55, 29215), (56, 29221), (58, 29257), (62, 29296), (64, 29305), (66, 29338), (67, 29377), (69, 29422), (73, 29473), (77, 29524), (78, 29533), (81, 29602), (85, 29677), (88, 29722), (90, 29737), (100, 29872), (104, 29926), (105, 29947), (106, 29980), (109, 30025), (112, 30079), (114, 30106), (116, 30163), (120, 30184), (122, 30226), (123, 30265), (127, 30325), (145, 30565), (146, 30598), (147, 30601), (149, 30634), (150, 30640), (151, 30703),

Gene: Phaedrus_29 Start: 28532, Stop: 30757, Start Num: 4

Candidate Starts for Phaedrus_29:

(Start: 4 @28532 has 43 MA's), (Start: 7 @28547 has 1 MA's), (9, 28592), (13, 28649), (20, 28727), (25, 28796), (26, 28808), (30, 28850), (32, 28886), (33, 28913), (34, 28925), (36, 28952), (39, 29042), (43, 29114), (51, 29198), (59, 29306), (60, 29327), (67, 29420), (68, 29435), (76, 29564), (81, 29645), (85, 29720), (87, 29762), (88, 29768), (92, 29804), (100, 29918), (101, 29930), (104, 29972), (105, 29993), (108, 30047), (109, 30071), (111, 30107), (116, 30203), (118, 30212), (122, 30266), (128, 30374), (129, 30401), (133, 30443), (137, 30515), (144, 30596), (145, 30605), (147, 30641),

Gene: Phamished_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Phamished_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Phareon_31 Start: 28470, Stop: 30725, Start Num: 5

Candidate Starts for Phareon_31:

(Start: 5 @28470 has 276 MA's), (12, 28566), (18, 28644), (19, 28671), (27, 28770), (37, 28929), (44, 29109), (47, 29133), (55, 29223), (56, 29229), (58, 29265), (62, 29304), (64, 29313), (66, 29346), (67, 29385), (69, 29430), (73, 29481), (77, 29532), (78, 29541), (81, 29610), (85, 29685), (88, 29730), (90, 29745), (100, 29880), (104, 29934), (105, 29955), (106, 29988), (109, 30033), (112, 30087), (114, 30114), (116, 30171), (120, 30192), (122, 30234), (123, 30273), (127, 30333), (145, 30573), (146, 30606), (147, 30609), (149, 30642), (150, 30648), (151, 30711),

Gene: PhatCats2014_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for PhatCats2014_31:

(Start: 5 @28775 has 276 MA's), (12, 28871), (18, 28949), (19, 28976), (27, 29075), (37, 29234), (44, 29414), (47, 29438), (55, 29528), (56, 29534), (58, 29570), (62, 29609), (64, 29618), (66, 29651), (67, 29690), (69, 29735), (73, 29786), (77, 29837), (78, 29846), (81, 29915), (85, 29990), (88, 30035), (90, 30050), (100, 30185), (104, 30239), (105, 30260), (106, 30293), (109, 30338), (112, 30392), (116, 30476), (120, 30497), (122, 30539), (123, 30578), (127, 30638), (145, 30878), (146, 30911), (147, 30914), (149, 30947), (150, 30953), (151, 31016),

Gene: PhatLouie_31 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for PhatLouie_31:

(Start: 5 @28764 has 276 MA's), (12, 28860), (18, 28938), (19, 28965), (27, 29064), (37, 29223), (44, 29403), (47, 29427), (55, 29517), (56, 29523), (58, 29559), (62, 29598), (64, 29607), (66, 29640), (67, 29679), (69, 29724), (73, 29775), (77, 29826), (78, 29835), (81, 29904), (85, 29979), (88, 30024), (90, 30039), (100, 30174), (104, 30228), (105, 30249), (106, 30282), (109, 30327), (112, 30381), (114, 30408), (116, 30465), (120, 30486), (122, 30528), (123, 30567), (127, 30627), (145, 30867), (146, 30900), (147, 30903), (149, 30936), (150, 30942), (151, 31005),

Gene: Phayeta_31 Start: 28480, Stop: 30705, Start Num: 4

Candidate Starts for Phayeta_31:

(Start: 4 @28480 has 43 MA's), (Start: 7 @28495 has 1 MA's), (9, 28540), (13, 28597), (20, 28675), (25, 28744), (26, 28756), (30, 28798), (32, 28834), (33, 28861), (34, 28873), (36, 28900), (39, 28990), (43, 29062), (51, 29146), (59, 29254), (60, 29275), (67, 29368), (68, 29383), (76, 29512), (81, 29593), (85, 29668), (87, 29710), (88, 29716), (92, 29752), (95, 29815), (100, 29866), (101, 29878), (104, 29920), (105, 29941), (108, 29995), (109, 30019), (111, 30055), (116, 30151), (118, 30160), (122, 30214), (128, 30322), (129, 30349), (133, 30391), (137, 30463), (145, 30553), (147, 30589),

Gene: Phelemich_30 Start: 29231, Stop: 31498, Start Num: 5

Candidate Starts for Phelemich_30:

(Start: 5 @29231 has 276 MA's), (12, 29327), (16, 29384), (17, 29402), (21, 29447), (41, 29798), (46, 29894), (48, 29900), (51, 29930), (52, 29954), (54, 29981), (62, 30071), (65, 30086), (74, 30266), (77, 30302), (80, 30338), (81, 30380), (85, 30455), (86, 30476), (88, 30506), (95, 30605), (98, 30629), (100, 30656), (104, 30710), (105, 30731), (106, 30764), (113, 30866), (116, 30944), (118, 30953), (120, 30965), (123, 31046), (124, 31049), (126, 31103), (128, 31115), (130, 31145), (132, 31163), (136, 31229), (140, 31277), (145, 31346), (151, 31484), (152, 31487),

Gene: PhenghisKhan_30 Start: 28370, Stop: 30625, Start Num: 5

Candidate Starts for PhenghisKhan_30:

(Start: 5 @28370 has 276 MA's), (12, 28466), (18, 28544), (19, 28571), (27, 28670), (37, 28829), (44, 29009), (47, 29033), (55, 29123), (56, 29129), (58, 29165), (62, 29204), (64, 29213), (66, 29246), (67, 29285), (69, 29330), (73, 29381), (77, 29432), (78, 29441), (81, 29510), (85, 29585), (88, 29630), (90, 29645), (100, 29780), (104, 29834), (105, 29855), (106, 29888), (109, 29933), (112, 29987), (114, 30014), (116, 30071), (120, 30092), (122, 30134), (123, 30173), (127, 30233), (145, 30473), (146, 30506), (147, 30509), (149, 30542), (150, 30548), (151, 30611),

Gene: Pherdinand_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Pherdinand_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Phergie_30 Start: 28361, Stop: 30616, Start Num: 5

Candidate Starts for Phergie_30:

(Start: 5 @28361 has 276 MA's), (12, 28457), (18, 28535), (19, 28562), (27, 28661), (37, 28820), (44, 29000), (47, 29024), (55, 29114), (56, 29120), (58, 29156), (62, 29195), (64, 29204), (66, 29237), (67, 29276), (69, 29321), (73, 29372), (77, 29423), (78, 29432), (81, 29501), (85, 29576), (88, 29621), (90, 29636), (100, 29771), (104, 29825), (105, 29846), (106, 29879), (109, 29924), (112, 29978), (114, 30005), (116, 30062), (120, 30083), (122, 30125), (123, 30164), (127, 30224), (145, 30464), (146, 30497), (147, 30500), (149, 30533), (150, 30539), (151, 30602),

Gene: Philly_30 Start: 28467, Stop: 30692, Start Num: 4

Candidate Starts for Philly_30:

(Start: 4 @28467 has 43 MA's), (Start: 7 @28482 has 1 MA's), (9, 28527), (13, 28584), (20, 28662), (25, 28731), (26, 28743), (30, 28785), (32, 28821), (33, 28848), (34, 28860), (36, 28887), (39, 28977), (43, 29049), (51, 29133), (59, 29241), (60, 29262), (67, 29355), (68, 29370), (76, 29499), (81, 29580), (85, 29655), (88, 29703), (95, 29802), (100, 29853), (101, 29865), (104, 29907), (105, 29928), (108, 29982), (109, 30006), (111, 30042), (116, 30138), (118, 30147), (122, 30201), (128, 30309), (129, 30336), (133, 30378), (137, 30450), (145, 30540), (147, 30576),

Gene: Phipps_31 Start: 28736, Stop: 30991, Start Num: 5

Candidate Starts for Phipps_31:

(Start: 5 @28736 has 276 MA's), (12, 28832), (18, 28910), (19, 28937), (27, 29036), (37, 29195), (44, 29375), (47, 29399), (55, 29489), (56, 29495), (58, 29531), (62, 29570), (64, 29579), (66, 29612), (67, 29651), (69, 29696), (73, 29747), (77, 29798), (78, 29807), (81, 29876), (85, 29951), (88, 29996), (90, 30011), (100, 30146), (104, 30200), (105, 30221), (106, 30254), (109, 30299), (112, 30353), (114, 30380), (116, 30437), (120, 30458), (122, 30500), (123, 30539), (127, 30599), (145, 30839), (146, 30872), (147, 30875), (149, 30908), (150, 30914), (151, 30977),

Gene: Phleuron_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for Phleuron_30:

(Start: 5 @28367 has 276 MA's), (12, 28463), (18, 28541), (19, 28568), (27, 28667), (37, 28826), (44, 29006), (47, 29030), (56, 29126), (58, 29162), (62, 29201), (64, 29210), (66, 29243), (67, 29282), (69, 29327), (73, 29378), (77, 29429), (78, 29438), (81, 29507), (85, 29582), (88, 29627), (90, 29642), (100, 29777), (104, 29831), (105, 29852), (106, 29885), (109, 29930), (112, 29984), (114, 30011), (116, 30068), (120, 30089), (122, 30131), (123, 30170), (127, 30230), (145, 30470), (146, 30503), (147, 30506), (149, 30539), (150, 30545), (151, 30608),

Gene: Phlyer_31 Start: 29348, Stop: 31576, Start Num: 4

Candidate Starts for Phlyer_31:

(Start: 4 @29348 has 43 MA's), (Start: 7 @29363 has 1 MA's), (9, 29408), (13, 29465), (20, 29543), (25, 29612), (26, 29624), (30, 29666), (32, 29702), (33, 29729), (34, 29741), (36, 29768), (39, 29858), (43, 29930), (51, 30014), (59, 30122), (60, 30143), (67, 30236), (68, 30251), (76, 30380), (81, 30461), (85, 30536), (87, 30578), (88, 30584), (92, 30620), (100, 30734), (101, 30746), (104, 30788), (105, 30809), (108, 30863), (109, 30887), (111, 30923), (116, 31022), (118, 31031), (122, 31085), (128, 31193), (129, 31220), (133, 31262), (137, 31334), (145, 31424), (147, 31460),

Gene: PhrankReynolds_30 Start: 28367, Stop: 30622, Start Num: 5

Candidate Starts for PhrankReynolds_30:

(Start: 5 @28367 has 276 MA's), (12, 28463), (18, 28541), (19, 28568), (27, 28667), (37, 28826), (44, 29006), (47, 29030), (55, 29120), (56, 29126), (58, 29162), (62, 29201), (64, 29210), (66, 29243), (67, 29282), (69, 29327), (73, 29378), (77, 29429), (78, 29438), (81, 29507), (85, 29582), (88, 29627), (90, 29642), (100, 29777), (104, 29831), (105, 29852), (106, 29885), (109, 29930), (112, 29984), (114, 30011), (116, 30068), (120, 30089), (122, 30131), (123, 30170), (127, 30230), (145, 30470), (146, 30503), (147, 30506), (149, 30539), (150, 30545), (151, 30608),

Gene: PhrodoBaggins_30 Start: 28754, Stop: 31009, Start Num: 5

Candidate Starts for PhrodoBaggins_30:

(Start: 5 @28754 has 276 MA's), (12, 28850), (18, 28928), (19, 28955), (27, 29054), (37, 29213), (44, 29393), (47, 29417), (55, 29507), (56, 29513), (58, 29549), (62, 29588), (64, 29597), (66, 29630), (67, 29669), (69, 29714), (73, 29765), (77, 29816), (78, 29825), (81, 29894), (85, 29969), (88, 30014), (90, 30029), (100, 30164), (104, 30218), (105, 30239), (106, 30272), (109, 30317), (112, 30371), (114, 30398), (116, 30455), (120, 30476), (122, 30518), (123, 30557), (127, 30617), (145, 30857), (146, 30890), (147, 30893), (149, 30926), (150, 30932), (151, 30995),

Gene: Phunky_31 Start: 28767, Stop: 31022, Start Num: 5

Candidate Starts for Phunky_31:

(Start: 5 @28767 has 276 MA's), (12, 28863), (18, 28941), (19, 28968), (27, 29067), (37, 29226), (44, 29406), (47, 29430), (55, 29520), (56, 29526), (58, 29562), (62, 29601), (64, 29610), (66, 29643), (67, 29682), (69, 29727), (73, 29778), (77, 29829), (78, 29838), (81, 29907), (85, 29982), (88, 30027), (90, 30042), (100, 30177), (104, 30231), (105, 30252), (106, 30285), (109, 30330), (112, 30384), (114, 30411), (116, 30468), (120, 30489), (122, 30531), (123, 30570), (127, 30630), (145, 30870), (146, 30903), (147, 30906), (149, 30939), (150, 30945), (151, 31008),

Gene: Piglet_0030 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Piglet_0030:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: PinheadLarry_31 Start: 28480, Stop: 30735, Start Num: 5

Candidate Starts for PinheadLarry_31:

(Start: 5 @28480 has 276 MA's), (12, 28576), (18, 28654), (19, 28681), (27, 28780), (37, 28939), (44, 29119), (47, 29143), (55, 29233), (56, 29239), (58, 29275), (62, 29314), (64, 29323), (66, 29356), (67, 29395), (69, 29440), (73, 29491), (77, 29542), (78, 29551), (81, 29620), (85, 29695), (88, 29740), (90, 29755), (100, 29890), (104, 29944), (105, 29965), (106, 29998), (109, 30043), (112, 30097), (114, 30124), (116, 30181), (120, 30202), (122, 30244), (123, 30283), (127, 30343), (145, 30583), (147, 30619), (149, 30652), (151, 30721),

Gene: Pinkman_30 Start: 28323, Stop: 30578, Start Num: 5

Candidate Starts for Pinkman_30:

(Start: 5 @28323 has 276 MA's), (12, 28419), (18, 28497), (19, 28524), (27, 28623), (37, 28782), (44, 28962), (47, 28986), (56, 29082), (58, 29118), (62, 29157), (64, 29166), (66, 29199), (67, 29238), (69, 29283), (73, 29334), (77, 29385), (78, 29394), (81, 29463), (85, 29538), (88, 29583), (90, 29598), (100, 29733), (104, 29787), (105, 29808), (106, 29841), (109, 29886), (112, 29940), (114, 29967), (116, 30024), (120, 30045), (122, 30087), (123, 30126), (127, 30186), (145, 30426), (147, 30462), (149, 30495), (151, 30564),

Gene: Pipefish_32 Start: 30005, Stop: 32233, Start Num: 4

Candidate Starts for Pipefish_32:

(Start: 4 @30005 has 43 MA's), (9, 30068), (13, 30125), (20, 30203), (25, 30272), (26, 30284), (30, 30326), (32, 30362), (34, 30401), (36, 30428), (39, 30518), (40, 30542), (43, 30590), (51, 30674), (59, 30782), (60, 30803), (67, 30896), (68, 30911), (76, 31040), (81, 31121), (85, 31196), (87, 31238), (88, 31244), (95, 31343), (100, 31394), (101, 31406), (104, 31448), (105, 31469), (108, 31523), (109, 31547), (111, 31583), (116, 31679), (118, 31688), (122, 31742), (128, 31850), (129, 31877), (133, 31919), (137, 31991), (145, 32081), (147, 32117),

Gene: Pipsqueak_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Pipsqueak_31:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (55, 29518), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (114, 30409), (116, 30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (147, 30904), (149, 30937), (151, 31006),

Gene: Placalicious_30 Start: 28458, Stop: 30713, Start Num: 5

Candidate Starts for Placalicious_30:

(Start: 5 @28458 has 276 MA's), (12, 28554), (18, 28632), (19, 28659), (27, 28758), (37, 28917), (44, 29097), (47, 29121), (55, 29211), (56, 29217), (58, 29253), (62, 29292), (64, 29301), (66, 29334), (67, 29373), (69, 29418), (73, 29469), (77, 29520), (78, 29529), (81, 29598), (85, 29673), (88, 29718), (90, 29733), (100, 29868), (104, 29922), (105, 29943), (106, 29976), (109, 30021), (112, 30075), (114, 30102), (116, 30159), (120, 30180), (122, 30222), (123, 30261), (127, 30321), (145, 30561), (146, 30594), (147, 30597), (149, 30630), (150, 30636), (151, 30699),

Gene: Plmatters_31 Start: 28763, Stop: 31018, Start Num: 5

Candidate Starts for Plmatters_31:

(Start: 5 @28763 has 276 MA's), (12, 28859), (18, 28937), (19, 28964), (27, 29063), (37, 29222), (44, 29402), (47, 29426), (55, 29516), (56, 29522), (58, 29558), (62, 29597), (64, 29606), (66, 29639), (67, 29678), (69, 29723), (73, 29774), (77, 29825), (78, 29834), (81, 29903), (85, 29978), (88, 30023), (90, 30038), (100, 30173), (104, 30227), (105, 30248), (106, 30281), (109, 30326), (112, 30380), (114, 30407), (116, 30464), (120, 30485), (122, 30527), (123, 30566), (127, 30626), (145, 30866), (146, 30899), (147, 30902), (149, 30935), (150, 30941), (151, 31004),

Gene: Podrick_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Podrick_31:

(Start: 5 @28755 has 276 MA's), (12, 28851), (18, 28929), (19, 28956), (27, 29055), (37, 29214), (44, 29394), (47, 29418), (55, 29508), (56, 29514), (58, 29550), (62, 29589), (64, 29598), (66, 29631), (67, 29670), (69, 29715), (73, 29766), (77, 29817), (78, 29826), (81, 29895), (85, 29970), (88, 30015), (90, 30030), (100, 30165), (104, 30219), (105, 30240), (106, 30273), (109, 30318), (112, 30372), (114, 30399), (116, 30456), (120, 30477), (122, 30519), (123, 30558), (127, 30618), (145, 30858), (146, 30891), (147, 30894), (149, 30927), (150, 30933), (151, 30996),

Gene: Pops_31 Start: 28775, Stop: 31033, Start Num: 5

Candidate Starts for Pops_31:

(Start: 5 @28775 has 276 MA's), (12, 28871), (18, 28949), (19, 28976), (27, 29078), (37, 29237), (44, 29417), (47, 29441), (56, 29537), (58, 29573), (62, 29612), (64, 29621), (66, 29654), (67, 29693), (69, 29738), (73, 29789), (77, 29840), (78, 29849), (81, 29918), (85, 29993), (88, 30038), (90, 30053), (100, 30188), (104, 30242), (105, 30263), (106, 30296), (109, 30341), (112, 30395), (114, 30422), (116, 30479), (120, 30500), (122, 30542), (123, 30581), (127, 30641), (145, 30881), (147, 30917), (149, 30950), (151, 31019),

Gene: Poster_27 Start: 27941, Stop: 30238, Start Num: 5

Candidate Starts for Poster_27:

(Start: 5 @27941 has 276 MA's), (12, 28040), (19, 28145), (23, 28181), (27, 28244), (31, 28325), (35, 28391), (37, 28403), (41, 28508), (42, 28547), (45, 28598), (47, 28607), (53, 28688), (54, 28691), (58, 28754), (63, 28796), (65, 28808), (70, 28931), (71, 28955), (76, 29018), (79, 29048), (80, 29057), (82, 29129), (83, 29150), (85, 29186), (86, 29207), (92, 29273), (93, 29285), (95, 29336), (96, 29339), (97, 29357), (99, 29381), (102, 29408), (104, 29441), (105, 29462), (106, 29495), (109, 29540), (117,

29681), (118, 29684), (120, 29696), (124, 29780), (133, 29915), (134, 29939), (138, 30002), (141, 30032), (142, 30038), (145, 30086), (146, 30119), (147, 30122), (151, 30224), (152, 30227),

Gene: Potter_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Potter_30:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (55, 29232), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67, 29394), (69, 29439), (73, 29490), (77, 29541), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (146, 30615), (147, 30618), (149, 30651), (150, 30657), (151, 30720),

Gene: Prickles_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Prickles_31:

(Start: 5 @28755 has 276 MA's), (12, 28851), (18, 28929), (19, 28956), (27, 29055), (37, 29214), (44, 29394), (47, 29418), (56, 29514), (58, 29550), (62, 29589), (64, 29598), (66, 29631), (67, 29670), (69, 29715), (73, 29766), (77, 29817), (78, 29826), (81, 29895), (85, 29970), (88, 30015), (90, 30030), (100, 30165), (104, 30219), (105, 30240), (106, 30273), (109, 30318), (112, 30372), (114, 30399), (116, 30456), (120, 30477), (122, 30519), (123, 30558), (127, 30618), (145, 30858), (147, 30894), (149, 30927), (151, 30996),

Gene: Prince_29 Start: 29124, Stop: 31421, Start Num: 5

Candidate Starts for Prince_29:

(Start: 1 @28437 has 1 MA's), (2, 28584), (Start: 5 @29124 has 276 MA's), (12, 29223), (19, 29328), (23, 29364), (27, 29427), (31, 29508), (35, 29574), (37, 29586), (41, 29691), (42, 29730), (45, 29781), (47, 29790), (53, 29871), (54, 29874), (58, 29937), (63, 29979), (65, 29991), (70, 30114), (71, 30138), (76, 30201), (82, 30312), (83, 30333), (85, 30369), (86, 30390), (92, 30456), (93, 30468), (95, 30519), (96, 30522), (97, 30540), (99, 30564), (102, 30591), (104, 30624), (105, 30645), (106, 30678), (109, 30723), (117, 30864), (118, 30867), (119, 30870), (120, 30879), (124, 30963), (132, 31077), (133, 31098), (134, 31122), (138, 31185), (141, 31215), (142, 31221), (145, 31269), (146, 31302), (147, 31305), (151, 31407), (152, 31410),

Gene: ProfessorX_31 Start: 28750, Stop: 31005, Start Num: 5

Candidate Starts for ProfessorX_31:

(Start: 5 @28750 has 276 MA's), (12, 28846), (18, 28924), (19, 28951), (27, 29050), (37, 29209), (44, 29389), (47, 29413), (55, 29503), (56, 29509), (58, 29545), (62, 29584), (64, 29593), (66, 29626), (67, 29665), (69, 29710), (73, 29761), (77, 29812), (78, 29821), (81, 29890), (85, 29965), (88, 30010), (90, 30025), (100, 30160), (104, 30214), (105, 30235), (106, 30268), (109, 30313), (112, 30367), (116, 30451), (120, 30472), (122, 30514), (123, 30553), (127, 30613), (145, 30853), (146, 30886), (147, 30889), (149, 30922), (150, 30928), (151, 30991),

Gene: Puhltonio_31 Start: 28770, Stop: 31025, Start Num: 5

Candidate Starts for Puhltonio_31:

(Start: 5 @28770 has 276 MA's), (12, 28866), (18, 28944), (19, 28971), (27, 29070), (37, 29229), (44, 29409), (47, 29433), (55, 29523), (56, 29529), (58, 29565), (62, 29604), (64, 29613), (66, 29646), (67, 29685), (69, 29730), (73, 29781), (77, 29832), (78, 29841), (81, 29910), (85, 29985), (88, 30030), (90, 30045), (100, 30180), (104, 30234), (105, 30255), (106, 30288), (109, 30333), (112, 30387), (114, 30414), (116, 30471), (120, 30492), (122, 30534), (123, 30573), (127, 30633), (145, 30873), (146, 30906), (147, 30909), (149, 30942), (150, 30948), (151, 31011),

Gene: QueenBeane_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for QueenBeane_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (55, 29514), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (146, 30897), (147, 30900), (149, 30933), (150, 30939), (151, 31002),

Gene: Quisquilliae_31 Start: 28789, Stop: 31044, Start Num: 5

Candidate Starts for Quisquilliae_31:

(Start: 5 @28789 has 276 MA's), (12, 28885), (18, 28963), (19, 28990), (27, 29089), (37, 29248), (44, 29428), (47, 29452), (55, 29542), (56, 29548), (58, 29584), (62, 29623), (64, 29632), (66, 29665), (67, 29704), (69, 29749), (73, 29800), (77, 29851), (78, 29860), (81, 29929), (85, 30004), (88, 30049), (90, 30064), (100, 30199), (104, 30253), (105, 30274), (106, 30307), (109, 30352), (112, 30406), (114, 30433), (116, 30490), (120, 30511), (122, 30553), (123, 30592), (127, 30652), (145, 30892), (146, 30925), (147, 30928), (149, 30961), (150, 30967), (151, 31030),

Gene: RagingRooster_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for RagingRooster_31:

(Start: 4 @28614 has 43 MA's), (Start: 7 @28629 has 1 MA's), (9, 28674), (13, 28731), (20, 28809), (25, 28878), (26, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (51, 29280), (59, 29388), (60, 29409), (67, 29502), (68, 29517), (76, 29646), (81, 29727), (85, 29802), (87, 29844), (88, 29850), (92, 29886), (100, 30000), (101, 30012), (104, 30054), (105, 30075), (108, 30129), (109, 30153), (111, 30189), (116, 30288), (118, 30297), (122, 30351), (128, 30459), (129, 30486), (133, 30528), (137, 30600), (145, 30690), (147, 30726),

Gene: RawrgerThat_28 Start: 28967, Stop: 31264, Start Num: 5

Candidate Starts for RawrgerThat_28:

(Start: 5 @28967 has 276 MA's), (12, 29066), (13, 29084), (23, 29207), (27, 29270), (31, 29351), (35, 29417), (41, 29534), (42, 29573), (45, 29624), (47, 29633), (52, 29690), (53, 29714), (54, 29717), (58, 29780), (63, 29822), (70, 29957), (71, 29981), (76, 30044), (82, 30155), (83, 30176), (85, 30212), (86, 30233), (92, 30299), (93, 30311), (95, 30362), (96, 30365), (97, 30383), (99, 30407), (102, 30434), (104, 30467), (105, 30488), (106, 30521), (109, 30566), (117, 30707), (118, 30710), (120, 30722), (124, 30806), (132, 30920), (133, 30941), (134, 30965), (138, 31028), (141, 31058), (142, 31064), (145, 31112), (146, 31145), (147, 31148), (151, 31250), (152, 31253),

Gene: RedMaple_30 Start: 28765, Stop: 31023, Start Num: 5

Candidate Starts for RedMaple_30:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29068), (37, 29227), (44, 29407), (47, 29431), (56, 29527), (58, 29563), (62, 29602), (64, 29611), (66, 29644), (67, 29683), (69, 29728), (73, 29779), (77, 29830), (78, 29839), (81, 29908), (85, 29983), (88, 30028), (90, 30043), (100, 30178), (104, 30232), (105, 30253), (106, 30286), (109, 30331), (112, 30385), (114, 30412), (116, 30469), (120, 30490), (122, 30532), (123, 30571), (127, 30631), (145, 30871), (147, 30907), (149, 30940), (151, 31009),

Gene: Reprobate_30 Start: 29236, Stop: 31503, Start Num: 5

Candidate Starts for Reprobate_30:

(Start: 5 @29236 has 276 MA's), (12, 29332), (16, 29389), (17, 29407), (21, 29452), (41, 29803), (46, 29899), (48, 29905), (51, 29935), (52, 29959), (54, 29986), (62, 30076), (65, 30091), (74, 30271), (77, 30307), (80, 30343), (81, 30385), (85, 30460), (86, 30481), (88, 30511), (95, 30610), (98, 30634), (100, 30661), (104, 30715), (105, 30736), (106, 30769), (113, 30871), (116, 30949), (118, 30958), (120, 30970), (123, 31051), (124, 31054), (126, 31108), (128, 31120), (130, 31150), (132, 31168), (136, 31234), (140, 31282), (145, 31351), (151, 31489), (152, 31492),

Gene: Rich_29 Start: 28722, Stop: 30989, Start Num: 5

Candidate Starts for Rich_29:

(Start: 5 @28722 has 276 MA's), (6, 28728), (9, 28779), (11, 28800), (14, 28854), (15, 28866), (16, 28875), (17, 28893), (23, 28956), (41, 29289), (48, 29391), (52, 29445), (62, 29565), (65, 29580), (66, 29607), (77, 29793), (80, 29829), (81, 29871), (86, 29967), (88, 29997), (95, 30096), (100, 30147), (108, 30276), (109, 30300), (115, 30414), (116, 30435), (122, 30498), (123, 30537), (124, 30540), (128, 30606), (130, 30636), (132, 30654), (136, 30720), (137, 30747), (145, 30837), (149, 30906), (151, 30975), (152, 30978),

Gene: Ricotta_31 Start: 28488, Stop: 30743, Start Num: 5

Candidate Starts for Ricotta_31:

(Start: 5 @28488 has 276 MA's), (12, 28584), (18, 28662), (19, 28689), (27, 28788), (37, 28947), (44, 29127), (47, 29151), (55, 29241), (56, 29247), (58, 29283), (62, 29322), (64, 29331), (66, 29364), (67, 29403), (69, 29448), (73, 29499), (77, 29550), (78, 29559), (81, 29628), (85, 29703), (88, 29748), (90, 29763), (100, 29898), (104, 29952), (105, 29973), (106, 30006), (109, 30051), (112, 30105), (114, 30132), (116, 30189), (120, 30210), (122, 30252), (123, 30291), (127, 30351), (145, 30591), (147, 30627), (149, 30660), (151, 30729),

Gene: Riggan_31 Start: 28747, Stop: 31002, Start Num: 5

Candidate Starts for Riggan_31:

(Start: 5 @28747 has 276 MA's), (12, 28843), (18, 28921), (19, 28948), (27, 29047), (37, 29206), (44, 29386), (47, 29410), (55, 29500), (56, 29506), (58, 29542), (62, 29581), (64, 29590), (66, 29623), (67, 29662), (69, 29707), (73, 29758), (77, 29809), (78, 29818), (81, 29887), (85, 29962), (88, 30007), (90, 30022), (100, 30157), (104, 30211), (105, 30232), (106, 30265), (109, 30310), (112, 30364), (114, 30391), (116, 30448), (120, 30469), (122, 30511), (123, 30550), (127, 30610), (145, 30850), (146, 30883), (147, 30886), (149, 30919), (150, 30925), (151, 30988),

Gene: Rimu_32 Start: 28496, Stop: 30751, Start Num: 5

Candidate Starts for Rimu_32:

(Start: 5 @28496 has 276 MA's), (12, 28592), (18, 28670), (19, 28697), (27, 28796), (37, 28955), (44, 29135), (47, 29159), (56, 29255), (58, 29291), (62, 29330), (64, 29339), (66, 29372), (67, 29411), (69, 29456), (73, 29507), (77, 29558), (78, 29567), (81, 29636), (85, 29711), (88, 29756), (90, 29771), (100, 29906), (104, 29960), (105, 29981), (106, 30014), (109, 30059), (112, 30113), (114, 30140), (116, 30197), (120, 30218), (122, 30260), (123, 30299), (127, 30359), (145, 30599), (147, 30635), (149, 30668), (151, 30737),

Gene: Rita1961_31 Start: 28615, Stop: 30825, Start Num: 7

Candidate Starts for Rita1961_31:

(Start: 4 @28600 has 43 MA's), (Start: 7 @28615 has 1 MA's), (9, 28660), (13, 28717), (20, 28795), (25, 28864), (26, 28876), (30, 28918), (32, 28954), (33, 28981), (34, 28993), (36, 29020), (39, 29110), (43, 29182), (51, 29266), (59, 29374), (60, 29395), (67, 29488), (68, 29503), (76, 29632), (81, 29713), (85, 29788), (87, 29830), (88, 29836), (92, 29872), (100, 29986), (101, 29998), (104, 30040), (105, 30061), (108, 30115), (109, 30139), (111, 30175), (116, 30271), (118, 30280), (122, 30334), (128, 30442), (129, 30469), (133, 30511), (137, 30583), (145, 30673), (147, 30709),

Gene: Robyn_30 Start: 28329, Stop: 30587, Start Num: 5

Candidate Starts for Robyn_30:

(Start: 5 @28329 has 276 MA's), (12, 28425), (18, 28503), (19, 28530), (27, 28632), (37, 28791), (44, 28971), (47, 28995), (56, 29091), (58, 29127), (62, 29166), (66, 29208), (67, 29247), (69, 29292), (73, 29343), (77, 29394), (78, 29403), (81, 29472), (85, 29547), (88, 29592), (90, 29607), (100, 29742), (104, 29796), (105, 29817), (106, 29850), (109, 29895), (112, 29949), (116, 30033), (120, 30054), (122, 30096), (123, 30135), (127, 30195), (145, 30435), (146, 30468), (147, 30471), (149, 30504), (150, 30510), (151, 30573),

Gene: Roliet_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Roliet_31:

(Start: 5 @28757 has 276 MA's), (12, 28853), (18, 28931), (19, 28958), (27, 29057), (37, 29216), (44, 29396), (47, 29420), (56, 29516), (58, 29552), (62, 29591), (64, 29600), (66, 29633), (67, 29672), (69, 29717), (73, 29768), (77, 29819), (78, 29828), (81, 29897), (85, 29972), (88, 30017), (90, 30032), (100, 30167), (104, 30221), (105, 30242), (106, 30275), (109, 30320), (112, 30374), (114, 30401), (116, 30458), (120, 30479), (122, 30521), (123, 30560), (127, 30620), (145, 30860), (147, 30896), (149, 30929), (151, 30998),

Gene: RomaT_31 Start: 29390, Stop: 31615, Start Num: 4

Candidate Starts for RomaT_31:

(Start: 4 @29390 has 43 MA's), (Start: 7 @29405 has 1 MA's), (9, 29450), (13, 29507), (20, 29585), (25, 29654), (26, 29666), (30, 29708), (32, 29744), (33, 29771), (34, 29783), (36, 29810), (39, 29900), (43, 29972), (51, 30056), (59, 30164), (60, 30185), (67, 30278), (68, 30293), (76, 30422), (81, 30503), (85, 30578), (87, 30620), (88, 30626), (92, 30662), (95, 30725), (100, 30776), (101, 30788), (104, 30830), (105, 30851), (108, 30905), (109, 30929), (111, 30965), (116, 31061), (118, 31070), (122, 31124), (128, 31232), (129, 31259), (133, 31301), (137, 31373), (145, 31463), (147, 31499),

Gene: Roscoe_32 Start: 28995, Stop: 31250, Start Num: 5

Candidate Starts for Roscoe_32:

(Start: 5 @28995 has 276 MA's), (12, 29091), (18, 29169), (19, 29196), (27, 29295), (37, 29454), (44, 29634), (47, 29658), (55, 29748), (56, 29754), (58, 29790), (62, 29829), (64, 29838), (66, 29871), (67, 29910), (69, 29955), (73, 30006), (77, 30057), (78, 30066), (81, 30135), (85, 30210), (88, 30255), (90, 30270), (100, 30405), (103, 30456), (104, 30459), (105, 30480), (106, 30513), (109, 30558), (112, 30612), (116, 30696), (120, 30717), (122, 30759), (123, 30798), (127, 30858), (145, 31098), (146, 31131), (147, 31134), (149, 31167), (150, 31173), (151, 31236),

Gene: Roy17_31 Start: 28461, Stop: 30716, Start Num: 5

Candidate Starts for Roy17_31:

(Start: 5 @28461 has 276 MA's), (12, 28557), (18, 28635), (19, 28662), (27, 28761), (37, 28920), (44, 29100), (47, 29124), (55, 29214), (56, 29220), (58, 29256), (62, 29295), (64, 29304), (66, 29337), (67, 29376), (69, 29421), (73, 29472), (77, 29523), (78, 29532), (81, 29601), (85, 29676), (88, 29721), (90, 29736), (100, 29871), (104, 29925), (105, 29946), (106, 29979), (109, 30024), (112, 30078), (116, 30162), (120, 30183), (122, 30225), (123, 30264), (127, 30324), (145, 30564), (146, 30597), (147, 30600), (149, 30633), (150, 30639), (151, 30702),

Gene: SDcharge11_31 Start: 28735, Stop: 30990, Start Num: 5

Candidate Starts for SDcharge11_31:

(Start: 5 @28735 has 276 MA's), (12, 28831), (18, 28909), (19, 28936), (27, 29035), (37, 29194), (44, 29374), (47, 29398), (56, 29494), (58, 29530), (62, 29569), (64, 29578), (66, 29611), (67, 29650), (69, 29695), (73, 29746), (77, 29797), (78, 29806), (81, 29875), (85, 29950), (88, 29995), (90, 30010), (100, 30145), (104, 30199), (105, 30220), (106, 30253), (109, 30298), (112, 30352), (114, 30379), (116, 30436), (120, 30457), (122, 30499), (123, 30538), (127, 30598), (145, 30838), (147, 30874), (149, 30907), (151, 30976),

Gene: Samaymay_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Samaymay_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (55, 29514), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (146,

30897), (147, 30900), (149, 30933), (150, 30939), (151, 31002),

Gene: SassyCat97_30 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for SassyCat97_30:

(Start: 5 @28467 has 276 MA's), (12, 28563), (18, 28641), (19, 28668), (27, 28767), (37, 28926), (44, 29106), (47, 29130), (55, 29220), (56, 29226), (58, 29262), (62, 29301), (64, 29310), (66, 29343), (67, 29382), (69, 29427), (73, 29478), (77, 29529), (78, 29538), (81, 29607), (85, 29682), (88, 29727), (90, 29742), (100, 29877), (104, 29931), (105, 29952), (106, 29985), (109, 30030), (112, 30084), (114, 30111), (116, 30168), (120, 30189), (122, 30231), (123, 30270), (127, 30330), (145, 30570), (146, 30603), (147, 30606), (149, 30639), (150, 30645), (151, 30708),

Gene: Schadenfreude_30 Start: 28315, Stop: 30573, Start Num: 5

Candidate Starts for Schadenfreude_30:

(Start: 5 @28315 has 276 MA's), (12, 28411), (18, 28489), (19, 28516), (27, 28618), (37, 28777), (44, 28957), (47, 28981), (56, 29077), (58, 29113), (62, 29152), (64, 29161), (66, 29194), (67, 29233), (69, 29278), (73, 29329), (77, 29380), (78, 29389), (81, 29458), (85, 29533), (88, 29578), (90, 29593), (100, 29728), (104, 29782), (105, 29803), (106, 29836), (109, 29881), (112, 29935), (116, 30019), (120, 30040), (122, 30082), (123, 30121), (127, 30181), (145, 30421), (146, 30454), (147, 30457), (149, 30490), (150, 30496), (151, 30559),

Gene: Schueller_31 Start: 28482, Stop: 30737, Start Num: 5

Candidate Starts for Schueller_31:

(Start: 5 @28482 has 276 MA's), (12, 28578), (18, 28656), (19, 28683), (27, 28782), (37, 28941), (44, 29121), (47, 29145), (55, 29235), (56, 29241), (58, 29277), (62, 29316), (64, 29325), (66, 29358), (67, 29397), (69, 29442), (73, 29493), (77, 29544), (78, 29553), (81, 29622), (85, 29697), (88, 29742), (90, 29757), (100, 29892), (104, 29946), (105, 29967), (106, 30000), (109, 30045), (112, 30099), (114, 30126), (116, 30183), (120, 30204), (122, 30246), (123, 30285), (127, 30345), (145, 30585), (147, 30621), (149, 30654), (151, 30723),

Gene: Scoot17C_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for Scoot17C_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (55, 29513), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (146, 30896), (147, 30899), (149, 30932), (150, 30938), (151, 31001),

Gene: Scrick_31 Start: 28485, Stop: 30740, Start Num: 5

Candidate Starts for Scrick_31:

(Start: 5 @28485 has 276 MA's), (12, 28581), (18, 28659), (19, 28686), (27, 28785), (37, 28944), (44, 29124), (47, 29148), (55, 29238), (56, 29244), (58, 29280), (62, 29319), (64, 29328), (66, 29361), (67, 29400), (69, 29445), (73, 29496), (77, 29547), (78, 29556), (81, 29625), (85, 29700), (88, 29745), (90, 29760), (100, 29895), (104, 29949), (105, 29970), (106, 30003), (109, 30048), (112, 30102), (114, 30129), (116, 30186), (120, 30207), (122, 30249), (123, 30288), (127, 30348), (145, 30588), (146, 30621), (147, 30624), (149, 30657), (150, 30663), (151, 30726),

Gene: Selr12_31 Start: 28489, Stop: 30744, Start Num: 5

Candidate Starts for Selr12_31:

(Start: 5 @28489 has 276 MA's), (12, 28585), (18, 28663), (19, 28690), (27, 28789), (37, 28948), (44, 29128), (47, 29152), (55, 29242), (56, 29248), (58, 29284), (62, 29323), (64, 29332), (66, 29365), (67, 29404), (69, 29449), (73, 29500), (77, 29551), (78, 29560), (81, 29629), (85, 29704), (88, 29749), (90, 29764), (100, 29899), (104, 29953), (105, 29974), (106, 30007), (109, 30052), (112, 30106), (114,

30133), (116, 30190), (120, 30211), (122, 30253), (123, 30292), (127, 30352), (145, 30592), (147, 30628), (149, 30661), (151, 30730),

Gene: Serendipitous_29 Start: 28782, Stop: 31049, Start Num: 5

Candidate Starts for Serendipitous_29:

(Start: 5 @28782 has 276 MA's), (14, 28914), (16, 28935), (17, 28953), (21, 28998), (28, 29121), (41, 29349), (48, 29451), (51, 29481), (52, 29505), (62, 29625), (65, 29640), (72, 29793), (77, 29853), (80, 29889), (81, 29931), (85, 30006), (88, 30057), (95, 30156), (98, 30180), (100, 30207), (113, 30417), (116, 30495), (118, 30504), (120, 30516), (123, 30597), (124, 30600), (125, 30612), (128, 30666), (132, 30714), (136, 30780), (145, 30897), (151, 31035),

Gene: Serendipity_31 Start: 28785, Stop: 31040, Start Num: 5

Candidate Starts for Serendipity_31:

(Start: 5 @28785 has 276 MA's), (12, 28881), (18, 28959), (19, 28986), (27, 29085), (37, 29244), (44, 29424), (47, 29448), (55, 29538), (56, 29544), (58, 29580), (62, 29619), (64, 29628), (66, 29661), (67, 29700), (69, 29745), (73, 29796), (77, 29847), (78, 29856), (81, 29925), (85, 30000), (88, 30045), (90, 30060), (100, 30195), (104, 30249), (105, 30270), (106, 30303), (109, 30348), (112, 30402), (114, 30429), (116, 30486), (120, 30507), (122, 30549), (123, 30588), (127, 30648), (145, 30888), (146, 30921), (147, 30924), (149, 30957), (150, 30963), (151, 31026),

Gene: Serpentine_0031 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Serpentine_0031:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Sheila_31 Start: 28755, Stop: 31013, Start Num: 5

Candidate Starts for Sheila_31:

(Start: 5 @28755 has 276 MA's), (12, 28851), (18, 28929), (19, 28956), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (56, 29517), (58, 29553), (62, 29592), (64, 29601), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (114, 30402), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146, 30894), (147, 30897), (149, 30930), (150, 30936), (151, 30999),

Gene: ShiVal_31 Start: 28759, Stop: 31014, Start Num: 5

Candidate Starts for ShiVal_31:

(Start: 5 @28759 has 276 MA's), (12, 28855), (18, 28933), (19, 28960), (27, 29059), (37, 29218), (44, 29398), (47, 29422), (55, 29512), (56, 29518), (58, 29554), (62, 29593), (64, 29602), (66, 29635), (67, 29674), (69, 29719), (73, 29770), (77, 29821), (78, 29830), (81, 29899), (85, 29974), (88, 30019), (90, 30034), (100, 30169), (104, 30223), (105, 30244), (106, 30277), (109, 30322), (112, 30376), (114, 30403), (116, 30460), (120, 30481), (122, 30523), (123, 30562), (127, 30622), (145, 30862), (146, 30895), (147, 30898), (149, 30931), (150, 30937), (151, 31000),

Gene: Sigman_31 Start: 28751, Stop: 31006, Start Num: 5

Candidate Starts for Sigman_31:

(Start: 5 @28751 has 276 MA's), (12, 28847), (18, 28925), (19, 28952), (27, 29051), (37, 29210), (44, 29390), (47, 29414), (55, 29504), (56, 29510), (58, 29546), (62, 29585), (64, 29594), (66, 29627), (67, 29666), (69, 29711), (73, 29762), (77, 29813), (78, 29822), (81, 29891), (85, 29966), (88, 30011), (90, 30026), (100, 30161), (104, 30215), (105, 30236), (106, 30269), (109, 30314), (112, 30368), (116,

30452), (120, 30473), (122, 30515), (123, 30554), (127, 30614), (145, 30854), (146, 30887), (147, 30890), (149, 30923), (150, 30929), (151, 30992),

Gene: Simielle_30 Start: 28454, Stop: 30709, Start Num: 5

Candidate Starts for Simielle_30:

(Start: 5 @28454 has 276 MA's), (12, 28550), (18, 28628), (19, 28655), (27, 28754), (37, 28913), (44, 29093), (47, 29117), (55, 29207), (56, 29213), (58, 29249), (62, 29288), (64, 29297), (66, 29330), (67, 29369), (69, 29414), (73, 29465), (77, 29516), (78, 29525), (81, 29594), (85, 29669), (88, 29714), (90, 29729), (100, 29864), (104, 29918), (105, 29939), (106, 29972), (109, 30017), (112, 30071), (114, 30098), (116, 30155), (120, 30176), (122, 30218), (123, 30257), (127, 30317), (145, 30557), (146, 30590), (147, 30593), (149, 30626), (150, 30632), (151, 30695),

Gene: SirJeffery_30 Start: 28980, Stop: 31256, Start Num: 5

Candidate Starts for SirJeffery_30:

(Start: 5 @28980 has 276 MA's), (6, 28986), (8, 29028), (10, 29049), (11, 29058), (14, 29112), (16, 29133), (17, 29151), (18, 29154), (21, 29196), (22, 29202), (23, 29214), (27, 29283), (28, 29319), (37, 29442), (41, 29547), (52, 29703), (54, 29730), (57, 29781), (62, 29832), (65, 29847), (77, 30060), (80, 30096), (81, 30138), (85, 30213), (95, 30363), (98, 30387), (100, 30414), (105, 30489), (108, 30543), (116, 30702), (118, 30711), (120, 30723), (123, 30804), (124, 30807), (128, 30873), (132, 30921), (136, 30987), (145, 31104),

Gene: Skippy_31 Start: 28749, Stop: 31004, Start Num: 5

Candidate Starts for Skippy_31:

(Start: 5 @28749 has 276 MA's), (12, 28845), (18, 28923), (19, 28950), (27, 29049), (37, 29208), (44, 29388), (47, 29412), (55, 29502), (56, 29508), (58, 29544), (62, 29583), (64, 29592), (66, 29625), (67, 29664), (69, 29709), (73, 29760), (77, 29811), (78, 29820), (81, 29889), (85, 29964), (88, 30009), (90, 30024), (100, 30159), (104, 30213), (105, 30234), (106, 30267), (109, 30312), (112, 30366), (114, 30393), (116, 30450), (120, 30471), (122, 30513), (123, 30552), (127, 30612), (145, 30852), (146, 30885), (147, 30888), (149, 30921), (150, 30927), (151, 30990),

Gene: Slatt_31 Start: 28774, Stop: 31029, Start Num: 5

Candidate Starts for Slatt_31:

(Start: 5 @28774 has 276 MA's), (12, 28870), (18, 28948), (19, 28975), (27, 29074), (37, 29233), (44, 29413), (47, 29437), (55, 29527), (56, 29533), (58, 29569), (62, 29608), (64, 29617), (66, 29650), (67, 29689), (69, 29734), (73, 29785), (77, 29836), (78, 29845), (81, 29914), (85, 29989), (88, 30034), (90, 30049), (100, 30184), (104, 30238), (105, 30259), (106, 30292), (109, 30337), (112, 30391), (114, 30418), (116, 30475), (120, 30496), (122, 30538), (123, 30577), (127, 30637), (145, 30877), (146, 30910), (147, 30913), (149, 30946), (150, 30952), (151, 31015),

Gene: SlippinJimmy_31 Start: 29378, Stop: 31603, Start Num: 4

Candidate Starts for SlippinJimmy_31:

(Start: 4 @29378 has 43 MA's), (Start: 7 @29393 has 1 MA's), (9, 29438), (13, 29495), (20, 29573), (25, 29642), (26, 29654), (30, 29696), (32, 29732), (33, 29759), (34, 29771), (36, 29798), (39, 29888), (43, 29960), (51, 30044), (59, 30152), (60, 30173), (67, 30266), (68, 30281), (76, 30410), (81, 30491), (85, 30566), (87, 30608), (88, 30614), (92, 30650), (95, 30713), (100, 30764), (101, 30776), (104, 30818), (105, 30839), (108, 30893), (109, 30917), (111, 30953), (116, 31049), (118, 31058), (122, 31112), (128, 31220), (129, 31247), (133, 31289), (137, 31361), (145, 31451), (147, 31487),

Gene: Soile_31 Start: 28481, Stop: 30736, Start Num: 5

Candidate Starts for Soile_31:

(Start: 5 @28481 has 276 MA's), (12, 28577), (18, 28655), (19, 28682), (27, 28781), (37, 28940), (44, 29120), (47, 29144), (55, 29234), (56, 29240), (58, 29276), (62, 29315), (64, 29324), (66, 29357), (67, 29396), (69, 29441), (73, 29492), (77, 29543), (78, 29552), (81, 29621), (85, 29696), (88, 29741), (90,

29756), (100, 29891), (104, 29945), (105, 29966), (106, 29999), (109, 30044), (112, 30098), (114, 30125), (116, 30182), (120, 30203), (122, 30245), (123, 30284), (127, 30344), (145, 30584), (146, 30617), (147, 30620), (149, 30653), (150, 30659), (151, 30722),

Gene: Solosis_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Solosis_30:

(Start: 5 @28476 has 276 MA's), (12, 28572), (18, 28650), (19, 28677), (27, 28776), (37, 28935), (44, 29115), (47, 29139), (55, 29229), (56, 29235), (58, 29271), (62, 29310), (64, 29319), (66, 29352), (67, 29391), (69, 29436), (73, 29487), (77, 29538), (78, 29547), (81, 29616), (85, 29691), (88, 29736), (90, 29751), (100, 29886), (104, 29940), (105, 29961), (106, 29994), (109, 30039), (112, 30093), (114, 30120), (116, 30177), (120, 30198), (122, 30240), (123, 30279), (127, 30339), (139, 30504), (145, 30579), (147, 30615), (149, 30648), (151, 30717),

Gene: Sophia_30 Start: 28476, Stop: 30731, Start Num: 5

Candidate Starts for Sophia_30:

(Start: 5 @28476 has 276 MA's), (12, 28572), (18, 28650), (19, 28677), (27, 28776), (37, 28935), (44, 29115), (47, 29139), (55, 29229), (56, 29235), (58, 29271), (62, 29310), (64, 29319), (66, 29352), (67, 29391), (69, 29436), (73, 29487), (77, 29538), (78, 29547), (81, 29616), (85, 29691), (88, 29736), (90, 29751), (100, 29886), (104, 29940), (105, 29961), (106, 29994), (109, 30039), (112, 30093), (114, 30120), (116, 30177), (120, 30198), (122, 30240), (123, 30279), (127, 30339), (145, 30579), (147, 30615), (149, 30648), (151, 30717),

Gene: Soto_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Soto_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (114, 30413), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (147, 30908), (149, 30941), (151, 31010),

Gene: Spartan300_31 Start: 28755, Stop: 31010, Start Num: 5

Candidate Starts for Spartan300_31:

(Start: 5 @28755 has 276 MA's), (12, 28851), (18, 28929), (19, 28956), (27, 29055), (37, 29214), (44, 29394), (47, 29418), (55, 29508), (56, 29514), (58, 29550), (62, 29589), (64, 29598), (66, 29631), (67, 29670), (69, 29715), (73, 29766), (77, 29817), (78, 29826), (81, 29895), (85, 29970), (88, 30015), (90, 30030), (100, 30165), (104, 30219), (105, 30240), (106, 30273), (109, 30318), (112, 30372), (116, 30456), (120, 30477), (122, 30519), (123, 30558), (127, 30618), (145, 30858), (146, 30891), (147, 30894), (149, 30927), (151, 30996),

Gene: Squid_31 Start: 28467, Stop: 30722, Start Num: 5

Candidate Starts for Squid_31:

(Start: 5 @28467 has 276 MA's), (12, 28563), (18, 28641), (19, 28668), (27, 28767), (37, 28926), (44, 29106), (47, 29130), (55, 29220), (56, 29226), (58, 29262), (62, 29301), (64, 29310), (66, 29343), (67, 29382), (69, 29427), (73, 29478), (77, 29529), (78, 29538), (81, 29607), (85, 29682), (88, 29727), (90, 29742), (100, 29877), (104, 29931), (105, 29952), (106, 29985), (109, 30030), (112, 30084), (114, 30111), (116, 30168), (120, 30189), (122, 30231), (123, 30270), (127, 30330), (145, 30570), (146, 30603), (147, 30606), (149, 30639), (150, 30645), (151, 30708),

Gene: Squiggle_31 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Squiggle_31:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (55, 29232), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67,

29394), (69, 29439), (73, 29490), (77, 29541), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (147, 30618), (149, 30651), (151, 30720),

Gene: Stinger_26 Start: 27542, Stop: 29839, Start Num: 5

Candidate Starts for Stinger_26:

(Start: 5 @27542 has 276 MA's), (12, 27641), (13, 27659), (27, 27845), (29, 27890), (31, 27926), (35, 27992), (37, 28004), (41, 28109), (42, 28148), (43, 28154), (47, 28208), (50, 28235), (53, 28289), (54, 28292), (58, 28355), (63, 28397), (65, 28409), (66, 28436), (71, 28556), (76, 28619), (80, 28658), (84, 28772), (85, 28787), (86, 28808), (88, 28838), (89, 28850), (92, 28874), (93, 28886), (95, 28937), (96, 28940), (97, 28958), (99, 28982), (100, 28988), (104, 29042), (105, 29063), (106, 29096), (108, 29117), (109, 29141), (116, 29276), (117, 29282), (118, 29285), (120, 29297), (124, 29381), (132, 29495), (133, 29516), (134, 29540), (138, 29603), (142, 29639), (145, 29687), (146, 29720), (147, 29723), (151, 29825), (152, 29828),

Gene: StinkyVeggy_32 Start: 29124, Stop: 31391, Start Num: 5

Candidate Starts for StinkyVeggy_32:

(Start: 5 @29124 has 276 MA's), (8, 29172), (11, 29202), (12, 29220), (14, 29256), (16, 29277), (17, 29295), (23, 29358), (28, 29463), (37, 29586), (38, 29592), (41, 29691), (48, 29793), (52, 29847), (62, 29967), (65, 29982), (66, 30009), (77, 30195), (80, 30231), (81, 30273), (85, 30348), (88, 30399), (92, 30435), (95, 30498), (98, 30522), (100, 30549), (108, 30678), (109, 30702), (116, 30837), (118, 30846), (120, 30858), (122, 30900), (123, 30939), (124, 30942), (126, 30996), (128, 31008), (130, 31038), (132, 31056), (136, 31122), (145, 31239), (151, 31377),

Gene: Struggle_30 Start: 28317, Stop: 30572, Start Num: 5

Candidate Starts for Struggle_30:

(Start: 5 @28317 has 276 MA's), (12, 28413), (18, 28491), (19, 28518), (27, 28617), (37, 28776), (44, 28956), (47, 28980), (56, 29076), (58, 29112), (62, 29151), (64, 29160), (66, 29193), (67, 29232), (69, 29277), (73, 29328), (77, 29379), (78, 29388), (81, 29457), (85, 29532), (88, 29577), (90, 29592), (100, 29727), (104, 29781), (105, 29802), (106, 29835), (109, 29880), (112, 29934), (114, 29961), (116, 30018), (120, 30039), (122, 30081), (123, 30120), (127, 30180), (145, 30420), (147, 30456), (149, 30489), (151, 30558),

Gene: Suffolk_31 Start: 28763, Stop: 31021, Start Num: 5

Candidate Starts for Suffolk_31:

(Start: 5 @28763 has 276 MA's), (12, 28859), (18, 28937), (19, 28964), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Suigeneris_30 Start: 28983, Stop: 31259, Start Num: 5

Candidate Starts for Suigeneris_30:

(Start: 5 @28983 has 276 MA's), (6, 28989), (8, 29031), (10, 29052), (11, 29061), (14, 29115), (16, 29136), (17, 29154), (18, 29157), (21, 29199), (22, 29205), (23, 29217), (27, 29286), (28, 29322), (37, 29445), (41, 29550), (52, 29706), (54, 29733), (57, 29784), (62, 29835), (65, 29850), (77, 30063), (80, 30099), (81, 30141), (85, 30216), (95, 30366), (98, 30390), (100, 30417), (105, 30492), (108, 30546), (116, 30705), (118, 30714), (120, 30726), (123, 30807), (124, 30810), (128, 30876), (132, 30924), (136, 30990), (145, 31107),

Gene: Surely_31 Start: 28769, Stop: 31024, Start Num: 5

Candidate Starts for Surely_31:

(Start: 5 @28769 has 276 MA's), (12, 28865), (18, 28943), (19, 28970), (27, 29069), (37, 29228), (44, 29408), (47, 29432), (55, 29522), (56, 29528), (58, 29564), (62, 29603), (64, 29612), (66, 29645), (67, 29684), (69, 29729), (73, 29780), (77, 29831), (78, 29840), (81, 29909), (85, 29984), (88, 30029), (90, 30044), (100, 30179), (104, 30233), (105, 30254), (106, 30287), (109, 30332), (112, 30386), (114, 30413), (116, 30470), (120, 30491), (122, 30533), (123, 30572), (127, 30632), (145, 30872), (146, 30905), (147, 30908), (149, 30941), (150, 30947), (151, 31010),

Gene: Swiphy_32 Start: 28764, Stop: 31019, Start Num: 5

Candidate Starts for Swiphy_32:

(Start: 5 @28764 has 276 MA's), (12, 28860), (18, 28938), (19, 28965), (27, 29064), (37, 29223), (44, 29403), (47, 29427), (55, 29517), (56, 29523), (58, 29559), (62, 29598), (64, 29607), (66, 29640), (67, 29679), (69, 29724), (73, 29775), (77, 29826), (78, 29835), (81, 29904), (85, 29979), (88, 30024), (90, 30039), (100, 30174), (104, 30228), (105, 30249), (106, 30282), (109, 30327), (112, 30381), (114, 30408), (116, 30465), (120, 30486), (122, 30528), (123, 30567), (127, 30627), (145, 30867), (146, 30900), (147, 30903), (149, 30936), (150, 30942), (151, 31005),

Gene: Swish_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for Swish_31:

(Start: 5 @28752 has 276 MA's), (12, 28848), (18, 28926), (19, 28953), (27, 29052), (37, 29211), (44, 29391), (47, 29415), (55, 29505), (56, 29511), (58, 29547), (62, 29586), (64, 29595), (66, 29628), (67, 29667), (69, 29712), (73, 29763), (77, 29814), (78, 29823), (81, 29892), (85, 29967), (88, 30012), (90, 30027), (100, 30162), (104, 30216), (105, 30237), (106, 30270), (109, 30315), (112, 30369), (116, 30453), (120, 30474), (122, 30516), (123, 30555), (127, 30615), (145, 30855), (146, 30888), (147, 30891), (149, 30924), (150, 30930), (151, 30993),

Gene: SynergyX_31 Start: 28614, Stop: 30842, Start Num: 4

Candidate Starts for SynergyX_31:

(Start: 4 @28614 has 43 MA's), (Start: 7 @28629 has 1 MA's), (9, 28674), (13, 28731), (20, 28809), (25, 28878), (26, 28890), (30, 28932), (32, 28968), (33, 28995), (34, 29007), (36, 29034), (39, 29124), (43, 29196), (51, 29280), (59, 29388), (60, 29409), (67, 29502), (68, 29517), (76, 29646), (81, 29727), (85, 29802), (87, 29844), (88, 29850), (92, 29886), (100, 30000), (101, 30012), (104, 30054), (105, 30075), (108, 30129), (109, 30153), (111, 30189), (116, 30288), (118, 30297), (122, 30351), (128, 30459), (129, 30486), (133, 30528), (137, 30600), (145, 30690), (147, 30726),

Gene: TallGrassMM_31 Start: 28391, Stop: 30646, Start Num: 5

Candidate Starts for TallGrassMM_31:

(Start: 5 @28391 has 276 MA's), (12, 28487), (18, 28565), (19, 28592), (27, 28691), (37, 28850), (44, 29030), (47, 29054), (55, 29144), (56, 29150), (58, 29186), (62, 29225), (64, 29234), (66, 29267), (67, 29306), (69, 29351), (73, 29402), (77, 29453), (78, 29462), (81, 29531), (85, 29606), (88, 29651), (90, 29666), (100, 29801), (104, 29855), (105, 29876), (106, 29909), (109, 29954), (112, 30008), (114, 30035), (116, 30092), (120, 30113), (122, 30155), (123, 30194), (127, 30254), (145, 30494), (147, 30530), (149, 30563), (151, 30632),

Gene: Telesworld_30 Start: 28463, Stop: 30718, Start Num: 5

Candidate Starts for Telesworld_30:

(Start: 5 @28463 has 276 MA's), (12, 28559), (18, 28637), (19, 28664), (27, 28763), (37, 28922), (44, 29102), (47, 29126), (55, 29216), (56, 29222), (58, 29258), (62, 29297), (64, 29306), (66, 29339), (67, 29378), (69, 29423), (73, 29474), (77, 29525), (78, 29534), (81, 29603), (85, 29678), (88, 29723), (90, 29738), (100, 29873), (104, 29927), (105, 29948), (106, 29981), (109, 30026), (112, 30080), (114, 30107), (116, 30164), (120, 30185), (122, 30227), (123, 30266), (127, 30326), (145, 30566), (146, 30599), (147, 30602), (149, 30635), (150, 30641), (151, 30704),

Gene: Thora_31 Start: 28768, Stop: 31023, Start Num: 5

Candidate Starts for Thora_31:

(Start: 5 @28768 has 276 MA's), (12, 28864), (18, 28942), (19, 28969), (27, 29068), (37, 29227), (44, 29407), (47, 29431), (55, 29521), (56, 29527), (58, 29563), (62, 29602), (64, 29611), (66, 29644), (67, 29683), (69, 29728), (73, 29779), (77, 29830), (78, 29839), (81, 29908), (85, 29983), (88, 30028), (90, 30043), (100, 30178), (104, 30232), (105, 30253), (106, 30286), (109, 30331), (112, 30385), (116, 30469), (120, 30490), (122, 30532), (123, 30571), (127, 30631), (145, 30871), (146, 30904), (147, 30907), (149, 30940), (150, 30946), (151, 31009),

Gene: ThreeOh3D2_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for ThreeOh3D2_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Thunderbird_31 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Thunderbird_31:

(Start: 5 @28472 has 276 MA's), (12, 28568), (18, 28646), (19, 28673), (27, 28772), (37, 28931), (44, 29111), (47, 29135), (55, 29225), (56, 29231), (58, 29267), (62, 29306), (64, 29315), (66, 29348), (67, 29387), (69, 29432), (73, 29483), (77, 29534), (78, 29543), (81, 29612), (85, 29687), (88, 29732), (90, 29747), (100, 29882), (104, 29936), (105, 29957), (106, 29990), (109, 30035), (112, 30089), (114, 30116), (116, 30173), (120, 30194), (122, 30236), (123, 30275), (127, 30335), (145, 30575), (147, 30611), (149, 30644), (151, 30713),

Gene: Timmi_30 Start: 28477, Stop: 30732, Start Num: 5

Candidate Starts for Timmi_30:

(Start: 5 @28477 has 276 MA's), (12, 28573), (18, 28651), (19, 28678), (27, 28777), (37, 28936), (44, 29116), (47, 29140), (56, 29236), (58, 29272), (62, 29311), (64, 29320), (66, 29353), (67, 29392), (69, 29437), (73, 29488), (77, 29539), (78, 29548), (81, 29617), (85, 29692), (88, 29737), (90, 29752), (100, 29887), (104, 29941), (105, 29962), (106, 29995), (109, 30040), (112, 30094), (114, 30121), (116, 30178), (120, 30199), (122, 30241), (123, 30280), (127, 30340), (145, 30580), (147, 30616), (149, 30649), (151, 30718),

Gene: TomBombadil_31 Start: 28762, Stop: 31017, Start Num: 5

Candidate Starts for TomBombadil_31:

(Start: 5 @28762 has 276 MA's), (12, 28858), (18, 28936), (19, 28963), (27, 29062), (37, 29221), (44, 29401), (47, 29425), (55, 29515), (56, 29521), (58, 29557), (62, 29596), (64, 29605), (66, 29638), (67, 29677), (69, 29722), (73, 29773), (77, 29824), (78, 29833), (81, 29902), (85, 29977), (88, 30022), (90, 30037), (100, 30172), (104, 30226), (105, 30247), (106, 30280), (109, 30325), (112, 30379), (114, 30406), (116, 30463), (120, 30484), (122, 30526), (123, 30565), (127, 30625), (145, 30865), (146, 30898), (147, 30901), (149, 30934), (150, 30940), (151, 31003),

Gene: Tomlarah_31 Start: 28753, Stop: 31008, Start Num: 5

Candidate Starts for Tomlarah_31:

(Start: 5 @28753 has 276 MA's), (12, 28849), (18, 28927), (19, 28954), (27, 29053), (37, 29212), (44, 29392), (47, 29416), (55, 29506), (56, 29512), (58, 29548), (62, 29587), (64, 29596), (66, 29629), (67, 29668), (69, 29713), (73, 29764), (77, 29815), (78, 29824), (81, 29893), (85, 29968), (88, 30013), (90, 30028), (100, 30163), (104, 30217), (105, 30238), (106, 30271), (109, 30316), (112, 30370), (114, 30397), (116, 30454), (120, 30475), (122, 30517), (123, 30556), (127, 30616), (145, 30856), (146, 30889), (147, 30892), (149, 30925), (150, 30931), (151, 30994),

Gene: Toni_30 Start: 28469, Stop: 30724, Start Num: 5

Candidate Starts for Toni_30:

(Start: 5 @28469 has 276 MA's), (12, 28565), (18, 28643), (19, 28670), (27, 28769), (37, 28928), (44, 29108), (47, 29132), (55, 29222), (56, 29228), (58, 29264), (62, 29303), (64, 29312), (66, 29345), (67, 29384), (69, 29429), (73, 29480), (77, 29531), (78, 29540), (81, 29609), (85, 29684), (88, 29729), (90, 29744), (100, 29879), (104, 29933), (105, 29954), (106, 29987), (109, 30032), (112, 30086), (116, 30170), (120, 30191), (122, 30233), (123, 30272), (127, 30332), (145, 30572), (146, 30605), (147, 30608), (149, 30641), (150, 30647), (151, 30710),

Gene: Tooj_31 Start: 28823, Stop: 31081, Start Num: 5

Candidate Starts for Tooj_31:

(Start: 5 @28823 has 276 MA's), (12, 28919), (18, 28997), (19, 29024), (27, 29126), (37, 29285), (44, 29465), (47, 29489), (56, 29585), (58, 29621), (62, 29660), (64, 29669), (66, 29702), (67, 29741), (69, 29786), (73, 29837), (77, 29888), (78, 29897), (81, 29966), (85, 30041), (88, 30086), (90, 30101), (100, 30236), (104, 30290), (105, 30311), (106, 30344), (109, 30389), (112, 30443), (114, 30470), (116, 30527), (120, 30548), (122, 30590), (123, 30629), (127, 30689), (145, 30929), (146, 30962), (147, 30965), (149, 30998), (150, 31004), (151, 31067),

Gene: True_30 Start: 28466, Stop: 30721, Start Num: 5

Candidate Starts for True_30:

(Start: 5 @28466 has 276 MA's), (12, 28562), (18, 28640), (19, 28667), (27, 28766), (37, 28925), (44, 29105), (47, 29129), (55, 29219), (56, 29225), (58, 29261), (62, 29300), (64, 29309), (66, 29342), (67, 29381), (69, 29426), (73, 29477), (77, 29528), (78, 29537), (81, 29606), (85, 29681), (88, 29726), (90, 29741), (100, 29876), (104, 29930), (105, 29951), (106, 29984), (109, 30029), (112, 30083), (114, 30110), (116, 30167), (120, 30188), (122, 30230), (123, 30269), (127, 30329), (145, 30569), (146, 30602), (147, 30605), (149, 30638), (150, 30644), (151, 30707),

Gene: Trypo_31 Start: 28761, Stop: 31016, Start Num: 5

Candidate Starts for Trypo_31:

(Start: 5 @28761 has 276 MA's), (12, 28857), (18, 28935), (19, 28962), (27, 29061), (37, 29220), (44, 29400), (47, 29424), (56, 29520), (58, 29556), (62, 29595), (64, 29604), (66, 29637), (67, 29676), (69, 29721), (73, 29772), (77, 29823), (78, 29832), (81, 29901), (85, 29976), (88, 30021), (90, 30036), (100, 30171), (104, 30225), (105, 30246), (106, 30279), (109, 30324), (112, 30378), (114, 30405), (116, 30462), (120, 30483), (122, 30525), (123, 30564), (127, 30624), (145, 30864), (147, 30900), (149, 30933), (151, 31002),

Gene: Tydolla_31 Start: 29351, Stop: 31576, Start Num: 4

Candidate Starts for Tydolla_31:

(Start: 4 @29351 has 43 MA's), (Start: 7 @29366 has 1 MA's), (9, 29411), (13, 29468), (20, 29546), (25, 29615), (26, 29627), (30, 29669), (32, 29705), (33, 29732), (34, 29744), (36, 29771), (39, 29861), (43, 29933), (51, 30017), (59, 30125), (60, 30146), (67, 30239), (68, 30254), (76, 30383), (81, 30464), (85, 30539), (87, 30581), (88, 30587), (92, 30623), (100, 30737), (101, 30749), (104, 30791), (105, 30812), (108, 30866), (109, 30890), (111, 30926), (116, 31022), (118, 31031), (122, 31085), (128, 31193), (129, 31220), (133, 31262), (137, 31334), (145, 31424), (147, 31460),

Gene: TyrionL_30 Start: 28325, Stop: 30580, Start Num: 5

Candidate Starts for TyrionL_30:

(Start: 5 @28325 has 276 MA's), (12, 28421), (18, 28499), (19, 28526), (27, 28625), (37, 28784), (44, 28964), (47, 28988), (56, 29084), (58, 29120), (62, 29159), (64, 29168), (66, 29201), (67, 29240), (69, 29285), (73, 29336), (78, 29396), (81, 29465), (85, 29540), (88, 29585), (90, 29600), (100, 29735), (104, 29789), (105, 29810), (106, 29843), (109, 29888), (112, 29942), (114, 29969), (116, 30026), (120, 30047), (122, 30089), (123, 30128), (127, 30188), (145, 30428), (146, 30461), (147, 30464),

(149, 30497), (151, 30566),

Gene: UAch1_31 Start: 28775, Stop: 31030, Start Num: 5

Candidate Starts for UAch1_31:

(Start: 5 @28775 has 276 MA's), (12, 28871), (18, 28949), (19, 28976), (27, 29075), (37, 29234), (44, 29414), (47, 29438), (55, 29528), (56, 29534), (58, 29570), (62, 29609), (64, 29618), (66, 29651), (67, 29690), (69, 29735), (73, 29786), (77, 29837), (78, 29846), (81, 29915), (85, 29990), (88, 30035), (90, 30050), (100, 30185), (104, 30239), (105, 30260), (106, 30293), (109, 30338), (112, 30392), (116, 30476), (120, 30497), (122, 30539), (123, 30578), (127, 30638), (145, 30878), (146, 30911), (147, 30914), (149, 30947), (150, 30953), (151, 31016),

Gene: UncleHowie_31 Start: 28465, Stop: 30720, Start Num: 5

Candidate Starts for UncleHowie_31:

(Start: 5 @28465 has 276 MA's), (12, 28561), (18, 28639), (19, 28666), (27, 28765), (37, 28924), (44, 29104), (47, 29128), (55, 29218), (56, 29224), (58, 29260), (62, 29299), (64, 29308), (66, 29341), (67, 29380), (69, 29425), (73, 29476), (77, 29527), (78, 29536), (81, 29605), (85, 29680), (88, 29725), (90, 29740), (100, 29875), (104, 29929), (105, 29950), (106, 29983), (109, 30028), (112, 30082), (114, 30109), (116, 30166), (120, 30187), (122, 30229), (123, 30268), (127, 30328), (145, 30568), (147, 30604), (149, 30637), (151, 30706),

Gene: Usavi_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Usavi_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (146, 30902), (147, 30905), (149, 30938), (150, 30944), (151, 31007),

Gene: Vaishali24_30 Start: 28427, Stop: 30682, Start Num: 5

Candidate Starts for Vaishali24_30:

(Start: 5 @28427 has 276 MA's), (12, 28523), (18, 28601), (19, 28628), (27, 28727), (44, 29066), (47, 29090), (55, 29180), (56, 29186), (58, 29222), (62, 29261), (66, 29303), (67, 29342), (69, 29387), (73, 29438), (77, 29489), (78, 29498), (81, 29567), (85, 29642), (88, 29687), (90, 29702), (100, 29837), (104, 29891), (105, 29912), (106, 29945), (109, 29990), (112, 30044), (116, 30128), (120, 30149), (122, 30191), (123, 30230), (127, 30290), (145, 30530), (146, 30563), (147, 30566), (149, 30599), (150, 30605), (151, 30668),

Gene: Valjean_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Valjean_31:

(Start: 5 @28758 has 276 MA's), (12, 28854), (18, 28932), (19, 28959), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (55, 29511), (56, 29517), (58, 29553), (62, 29592), (64, 29601), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146, 30894), (147, 30897), (149, 30930), (151, 30999),

Gene: Vaticameos_31 Start: 28456, Stop: 30711, Start Num: 5

Candidate Starts for Vaticameos_31:

(Start: 5 @28456 has 276 MA's), (12, 28552), (18, 28630), (19, 28657), (27, 28756), (37, 28915), (44, 29095), (47, 29119), (55, 29209), (56, 29215), (58, 29251), (62, 29290), (64, 29299), (66, 29332), (67, 29371), (69, 29416), (73, 29467), (77, 29518), (78, 29527), (81, 29596), (85, 29671), (88, 29716), (90, 29731), (100, 29866), (104, 29920), (105, 29941), (106, 29974), (109, 30019), (112, 30073), (114,

30100), (116, 30157), (120, 30178), (122, 30220), (123, 30259), (127, 30319), (145, 30559), (146, 30592), (147, 30595), (149, 30628), (150, 30634), (151, 30697),

Gene: Veritas_30 Start: 28328, Stop: 30583, Start Num: 5

Candidate Starts for Veritas_30:

(Start: 5 @28328 has 276 MA's), (12, 28424), (18, 28502), (19, 28529), (27, 28628), (37, 28787), (44, 28967), (47, 28991), (55, 29081), (56, 29087), (58, 29123), (62, 29162), (64, 29171), (66, 29204), (67, 29243), (69, 29288), (73, 29339), (77, 29390), (78, 29399), (81, 29468), (85, 29543), (88, 29588), (90, 29603), (100, 29738), (104, 29792), (105, 29813), (106, 29846), (109, 29891), (112, 29945), (114, 29972), (116, 30029), (120, 30050), (122, 30092), (123, 30131), (127, 30191), (145, 30431), (146, 30464), (147, 30467), (149, 30500), (150, 30506), (151, 30569),

Gene: Vincenzo_29 Start: 29686, Stop: 31983, Start Num: 5

Candidate Starts for Vincenzo_29:

(Start: 5 @29686 has 276 MA's), (Start: 7 @29701 has 1 MA's), (12, 29785), (13, 29803), (17, 29860), (27, 29989), (41, 30253), (42, 30292), (43, 30298), (44, 30328), (45, 30343), (47, 30352), (53, 30433), (54, 30436), (61, 30535), (62, 30538), (63, 30541), (65, 30553), (70, 30676), (71, 30700), (76, 30763), (80, 30802), (82, 30874), (83, 30895), (84, 30916), (85, 30931), (86, 30952), (88, 30982), (91, 31015), (92, 31018), (93, 31030), (95, 31081), (96, 31084), (97, 31102), (99, 31126), (100, 31132), (104, 31186), (105, 31207), (108, 31261), (109, 31285), (116, 31420), (117, 31426), (118, 31429), (120, 31441), (124, 31525), (133, 31660), (134, 31684), (138, 31747), (142, 31783), (143, 31816), (145, 31831), (146, 31864), (147, 31867), (151, 31969), (152, 31972),

Gene: VioletZ_28 Start: 29041, Stop: 31338, Start Num: 5

Candidate Starts for VioletZ_28:

(Start: 1 @28354 has 1 MA's), (2, 28501), (Start: 5 @29041 has 276 MA's), (12, 29140), (13, 29158), (23, 29281), (27, 29344), (31, 29425), (35, 29491), (41, 29608), (42, 29647), (45, 29698), (47, 29707), (52, 29764), (53, 29788), (54, 29791), (58, 29854), (63, 29896), (65, 29908), (69, 30019), (70, 30031), (71, 30055), (76, 30118), (82, 30229), (83, 30250), (85, 30286), (86, 30307), (92, 30373), (93, 30385), (95, 30436), (96, 30439), (97, 30457), (99, 30481), (102, 30508), (104, 30541), (105, 30562), (106, 30595), (109, 30640), (117, 30781), (118, 30784), (120, 30796), (124, 30880), (132, 30994), (133, 31015), (134, 31039), (138, 31102), (141, 31132), (145, 31186), (146, 31219), (147, 31222), (148, 31246), (151, 31324), (152, 31327),

Gene: Virapocalypse_31 Start: 28752, Stop: 31007, Start Num: 5

Candidate Starts for Virapocalypse_31:

(Start: 5 @28752 has 276 MA's), (12, 28848), (18, 28926), (19, 28953), (27, 29052), (37, 29211), (44, 29391), (47, 29415), (55, 29505), (56, 29511), (58, 29547), (62, 29586), (64, 29595), (66, 29628), (67, 29667), (69, 29712), (73, 29763), (77, 29814), (78, 29823), (81, 29892), (85, 29967), (88, 30012), (90, 30027), (100, 30162), (104, 30216), (105, 30237), (106, 30270), (109, 30315), (112, 30369), (114, 30396), (116, 30453), (120, 30474), (122, 30516), (123, 30555), (127, 30615), (145, 30855), (146, 30888), (147, 30891), (149, 30924), (150, 30930), (151, 30993),

Gene: Virgeve_30 Start: 28527, Stop: 30788, Start Num: 5

Candidate Starts for Virgeve_30:

(Start: 5 @28527 has 276 MA's), (12, 28623), (18, 28701), (19, 28728), (24, 28803), (27, 28833), (37, 28992), (44, 29172), (47, 29196), (56, 29292), (58, 29328), (62, 29367), (64, 29376), (66, 29409), (67, 29448), (69, 29493), (73, 29544), (78, 29604), (81, 29673), (85, 29748), (88, 29793), (90, 29808), (100, 29943), (104, 29997), (105, 30018), (106, 30051), (109, 30096), (112, 30150), (114, 30177), (116, 30234), (120, 30255), (122, 30297), (123, 30336), (127, 30396), (145, 30636), (147, 30672), (149, 30705), (151, 30774),

Gene: Vista_31 Start: 28766, Stop: 31021, Start Num: 5

Candidate Starts for Vista_31:

(Start: 5 @28766 has 276 MA's), (12, 28862), (18, 28940), (19, 28967), (27, 29066), (37, 29225), (44, 29405), (47, 29429), (55, 29519), (56, 29525), (58, 29561), (62, 29600), (64, 29609), (66, 29642), (67, 29681), (69, 29726), (73, 29777), (77, 29828), (78, 29837), (81, 29906), (85, 29981), (88, 30026), (90, 30041), (100, 30176), (104, 30230), (105, 30251), (106, 30284), (109, 30329), (112, 30383), (114, 30410), (116, 30467), (120, 30488), (122, 30530), (123, 30569), (127, 30629), (145, 30869), (147, 30905), (149, 30938), (151, 31007),

Gene: Vivaldi_31 Start: 28792, Stop: 31050, Start Num: 5

Candidate Starts for Vivaldi_31:

(Start: 5 @28792 has 276 MA's), (12, 28888), (18, 28966), (19, 28993), (27, 29095), (44, 29434), (47, 29458), (56, 29554), (58, 29590), (62, 29629), (66, 29671), (67, 29710), (69, 29755), (73, 29806), (77, 29857), (78, 29866), (81, 29935), (85, 30010), (88, 30055), (90, 30070), (100, 30205), (104, 30259), (105, 30280), (106, 30313), (109, 30358), (112, 30412), (116, 30496), (120, 30517), (122, 30559), (123, 30598), (127, 30658), (145, 30898), (146, 30931), (147, 30934), (149, 30967), (150, 30973), (151, 31036),

Gene: Vortex_31 Start: 28472, Stop: 30727, Start Num: 5

Candidate Starts for Vortex_31:

(Start: 5 @28472 has 276 MA's), (12, 28568), (18, 28646), (19, 28673), (27, 28772), (37, 28931), (44, 29111), (47, 29135), (56, 29231), (58, 29267), (62, 29306), (64, 29315), (66, 29348), (67, 29387), (69, 29432), (73, 29483), (77, 29534), (78, 29543), (81, 29612), (85, 29687), (88, 29732), (90, 29747), (100, 29882), (104, 29936), (105, 29957), (106, 29990), (109, 30035), (112, 30089), (114, 30116), (116, 30173), (120, 30194), (122, 30236), (123, 30275), (127, 30335), (145, 30575), (147, 30611), (149, 30644), (151, 30713),

Gene: Waleliano_28 Start: 28968, Stop: 31265, Start Num: 5

Candidate Starts for Waleliano_28:

(Start: 1 @28281 has 1 MA's), (2, 28428), (Start: 5 @28968 has 276 MA's), (12, 29067), (13, 29085), (23, 29208), (27, 29271), (31, 29352), (35, 29418), (41, 29535), (42, 29574), (45, 29625), (47, 29634), (52, 29691), (53, 29715), (54, 29718), (58, 29781), (63, 29823), (65, 29835), (70, 29958), (71, 29982), (76, 30045), (82, 30156), (83, 30177), (85, 30213), (86, 30234), (92, 30300), (93, 30312), (94, 30354), (95, 30363), (96, 30366), (97, 30384), (98, 30387), (99, 30408), (102, 30435), (104, 30468), (105, 30489), (106, 30522), (109, 30567), (117, 30708), (118, 30711), (120, 30723), (124, 30807), (132, 30921), (133, 30942), (134, 30966), (138, 31029), (141, 31059), (145, 31113), (146, 31146), (147, 31149), (151, 31251), (152, 31254),

Gene: Wallhey_30 Start: 28329, Stop: 30584, Start Num: 5

Candidate Starts for Wallhey_30:

(Start: 5 @28329 has 276 MA's), (12, 28425), (18, 28503), (19, 28530), (27, 28629), (37, 28788), (44, 28968), (47, 28992), (56, 29088), (58, 29124), (62, 29163), (64, 29172), (66, 29205), (67, 29244), (69, 29289), (73, 29340), (77, 29391), (78, 29400), (81, 29469), (85, 29544), (88, 29589), (90, 29604), (100, 29739), (104, 29793), (105, 29814), (106, 29847), (109, 29892), (112, 29946), (114, 29973), (116, 30030), (120, 30051), (122, 30093), (123, 30132), (127, 30192), (145, 30432), (147, 30468), (149, 30501), (151, 30570),

Gene: Waterdiva_31 Start: 28758, Stop: 31013, Start Num: 5

Candidate Starts for Waterdiva_31:

(Start: 5 @28758 has 276 MA's), (12, 28854), (18, 28932), (19, 28959), (27, 29058), (37, 29217), (44, 29397), (47, 29421), (55, 29511), (56, 29517), (58, 29553), (62, 29592), (64, 29601), (66, 29634), (67, 29673), (69, 29718), (73, 29769), (77, 29820), (78, 29829), (81, 29898), (85, 29973), (88, 30018), (90, 30033), (100, 30168), (104, 30222), (105, 30243), (106, 30276), (109, 30321), (112, 30375), (114, 30402), (116, 30459), (120, 30480), (122, 30522), (123, 30561), (127, 30621), (145, 30861), (146,

30894), (147, 30897), (149, 30930), (150, 30936), (151, 30999),

Gene: Weher20_31 Start: 28757, Stop: 31012, Start Num: 5

Candidate Starts for Weher20_31:

(Start: 5 @28757 has 276 MA's), (12, 28853), (18, 28931), (19, 28958), (27, 29057), (37, 29216), (44, 29396), (47, 29420), (55, 29510), (56, 29516), (58, 29552), (62, 29591), (64, 29600), (66, 29633), (67, 29672), (69, 29717), (73, 29768), (77, 29819), (78, 29828), (81, 29897), (85, 29972), (88, 30017), (90, 30032), (100, 30167), (104, 30221), (105, 30242), (106, 30275), (109, 30320), (112, 30374), (114, 30401), (116, 30458), (120, 30479), (122, 30521), (123, 30560), (127, 30620), (145, 30860), (146, 30893), (147, 30896), (149, 30929), (150, 30935), (151, 30998),

Gene: Windsor_30 Start: 28456, Stop: 30717, Start Num: 5

Candidate Starts for Windsor_30:

(Start: 5 @28456 has 276 MA's), (12, 28552), (18, 28630), (19, 28657), (24, 28732), (27, 28762), (37, 28921), (44, 29101), (47, 29125), (56, 29221), (58, 29257), (62, 29296), (64, 29305), (66, 29338), (67, 29377), (69, 29422), (73, 29473), (78, 29533), (81, 29602), (85, 29677), (88, 29722), (90, 29737), (100, 29872), (104, 29926), (105, 29947), (106, 29980), (109, 30025), (112, 30079), (114, 30106), (116, 30163), (120, 30184), (122, 30226), (123, 30265), (127, 30325), (145, 30565), (147, 30601), (149, 30634), (151, 30703),

Gene: Xavier_30 Start: 28479, Stop: 30734, Start Num: 5

Candidate Starts for Xavier_30:

(Start: 5 @28479 has 276 MA's), (12, 28575), (18, 28653), (19, 28680), (27, 28779), (37, 28938), (44, 29118), (47, 29142), (55, 29232), (56, 29238), (58, 29274), (62, 29313), (64, 29322), (66, 29355), (67, 29394), (69, 29439), (73, 29490), (77, 29541), (78, 29550), (81, 29619), (85, 29694), (88, 29739), (90, 29754), (100, 29889), (104, 29943), (105, 29964), (106, 29997), (109, 30042), (112, 30096), (114, 30123), (116, 30180), (120, 30201), (122, 30243), (123, 30282), (127, 30342), (145, 30582), (146, 30615), (147, 30618), (149, 30651), (150, 30657), (151, 30720),

Gene: Yahalom_31 Start: 28626, Stop: 30851, Start Num: 4

Candidate Starts for Yahalom_31:

(Start: 4 @28626 has 43 MA's), (Start: 7 @28641 has 1 MA's), (9, 28686), (13, 28743), (20, 28821), (25, 28890), (26, 28902), (30, 28944), (32, 28980), (33, 29007), (34, 29019), (36, 29046), (39, 29136), (40, 29160), (43, 29208), (51, 29292), (59, 29400), (60, 29421), (67, 29514), (68, 29529), (76, 29658), (81, 29739), (85, 29814), (87, 29856), (88, 29862), (95, 29961), (100, 30012), (101, 30024), (104, 30066), (105, 30087), (108, 30141), (109, 30165), (111, 30201), (116, 30297), (118, 30306), (122, 30360), (128, 30468), (129, 30495), (133, 30537), (137, 30609), (145, 30699), (147, 30735),

Gene: Yinz_31 Start: 28649, Stop: 30874, Start Num: 4

Candidate Starts for Yinz_31:

(Start: 4 @28649 has 43 MA's), (Start: 7 @28664 has 1 MA's), (9, 28709), (13, 28766), (20, 28844), (25, 28913), (26, 28925), (30, 28967), (32, 29003), (33, 29030), (34, 29042), (36, 29069), (39, 29159), (43, 29231), (51, 29315), (59, 29423), (60, 29444), (67, 29537), (68, 29552), (76, 29681), (81, 29762), (85, 29837), (87, 29879), (88, 29885), (92, 29921), (100, 30035), (101, 30047), (104, 30089), (105, 30110), (108, 30164), (109, 30188), (111, 30224), (116, 30320), (118, 30329), (122, 30383), (128, 30491), (129, 30518), (133, 30560), (137, 30632), (145, 30722), (147, 30758),

Gene: Yoshand_31 Start: 28765, Stop: 31020, Start Num: 5

Candidate Starts for Yoshand_31:

(Start: 5 @28765 has 276 MA's), (12, 28861), (18, 28939), (19, 28966), (27, 29065), (37, 29224), (44, 29404), (47, 29428), (55, 29518), (56, 29524), (58, 29560), (62, 29599), (64, 29608), (66, 29641), (67, 29680), (69, 29725), (73, 29776), (77, 29827), (78, 29836), (81, 29905), (85, 29980), (88, 30025), (90, 30040), (100, 30175), (104, 30229), (105, 30250), (106, 30283), (109, 30328), (112, 30382), (116,

30466), (120, 30487), (122, 30529), (123, 30568), (127, 30628), (145, 30868), (146, 30901), (147, 30904), (149, 30937), (150, 30943), (151, 31006),

Gene: YouGoGlencoco_31 Start: 28760, Stop: 31015, Start Num: 5

Candidate Starts for YouGoGlencoco_31:

(Start: 5 @28760 has 276 MA's), (12, 28856), (18, 28934), (19, 28961), (27, 29060), (37, 29219), (44, 29399), (47, 29423), (55, 29513), (56, 29519), (58, 29555), (62, 29594), (64, 29603), (66, 29636), (67, 29675), (69, 29720), (73, 29771), (77, 29822), (78, 29831), (81, 29900), (85, 29975), (88, 30020), (90, 30035), (100, 30170), (104, 30224), (105, 30245), (106, 30278), (109, 30323), (112, 30377), (114, 30404), (116, 30461), (120, 30482), (122, 30524), (123, 30563), (127, 30623), (145, 30863), (146, 30896), (147, 30899), (149, 30932), (150, 30938), (151, 31001),

Gene: Zaider_32 Start: 28990, Stop: 31245, Start Num: 5

Candidate Starts for Zaider_32:

(Start: 5 @28990 has 276 MA's), (12, 29086), (18, 29164), (19, 29191), (27, 29290), (37, 29449), (44, 29629), (47, 29653), (55, 29743), (56, 29749), (58, 29785), (62, 29824), (64, 29833), (66, 29866), (67, 29905), (69, 29950), (73, 30001), (77, 30052), (78, 30061), (81, 30130), (85, 30205), (88, 30250), (90, 30265), (100, 30400), (104, 30454), (105, 30475), (106, 30508), (109, 30553), (112, 30607), (114, 30634), (116, 30691), (120, 30712), (122, 30754), (123, 30793), (127, 30853), (145, 31093), (146, 31126), (147, 31129), (149, 31162), (150, 31168), (151, 31231),

Gene: Zelda_31 Start: 28756, Stop: 31011, Start Num: 5

Candidate Starts for Zelda_31:

(Start: 5 @28756 has 276 MA's), (12, 28852), (18, 28930), (19, 28957), (27, 29056), (37, 29215), (44, 29395), (47, 29419), (55, 29509), (56, 29515), (58, 29551), (62, 29590), (64, 29599), (66, 29632), (67, 29671), (69, 29716), (73, 29767), (77, 29818), (78, 29827), (81, 29896), (85, 29971), (88, 30016), (90, 30031), (100, 30166), (104, 30220), (105, 30241), (106, 30274), (109, 30319), (112, 30373), (114, 30400), (116, 30457), (120, 30478), (122, 30520), (123, 30559), (127, 30619), (145, 30859), (147, 30895), (149, 30928), (151, 30997),

Gene: Zemanar_29 Start: 28968, Stop: 31265, Start Num: 5

Candidate Starts for Zemanar_29:

(Start: 5 @28968 has 276 MA's), (12, 29067), (13, 29085), (23, 29208), (27, 29271), (31, 29352), (35, 29418), (41, 29535), (42, 29574), (45, 29625), (47, 29634), (52, 29691), (53, 29715), (54, 29718), (58, 29781), (63, 29823), (65, 29835), (70, 29958), (71, 29982), (76, 30045), (80, 30084), (82, 30156), (83, 30177), (85, 30213), (86, 30234), (92, 30300), (93, 30312), (95, 30363), (96, 30366), (97, 30384), (99, 30408), (102, 30435), (104, 30468), (105, 30489), (106, 30522), (109, 30567), (117, 30708), (118, 30711), (120, 30723), (124, 30807), (132, 30921), (133, 30942), (134, 30966), (138, 31029), (141, 31059), (142, 31065), (145, 31113), (146, 31146), (147, 31149), (151, 31251), (152, 31254),

Gene: Zonia_31 Start: 28779, Stop: 31034, Start Num: 5

Candidate Starts for Zonia_31:

(Start: 5 @28779 has 276 MA's), (12, 28875), (18, 28953), (19, 28980), (27, 29079), (37, 29238), (44, 29418), (47, 29442), (56, 29538), (58, 29574), (62, 29613), (64, 29622), (66, 29655), (67, 29694), (69, 29739), (73, 29790), (77, 29841), (78, 29850), (81, 29919), (85, 29994), (88, 30039), (90, 30054), (100, 30189), (104, 30243), (105, 30264), (106, 30297), (109, 30342), (112, 30396), (114, 30423), (116, 30480), (120, 30501), (122, 30543), (123, 30582), (127, 30642), (145, 30882), (147, 30918), (149, 30951), (151, 31020),