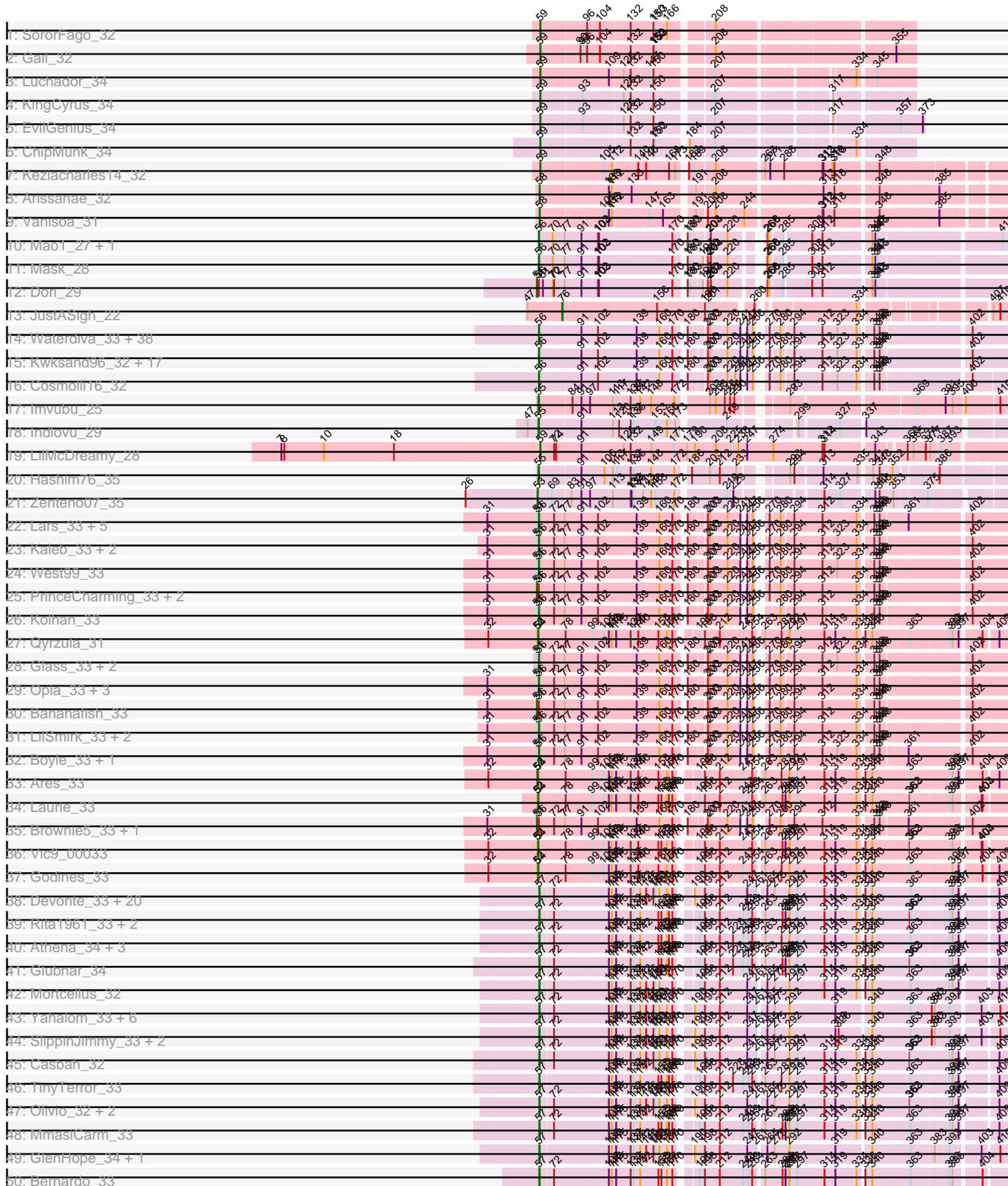
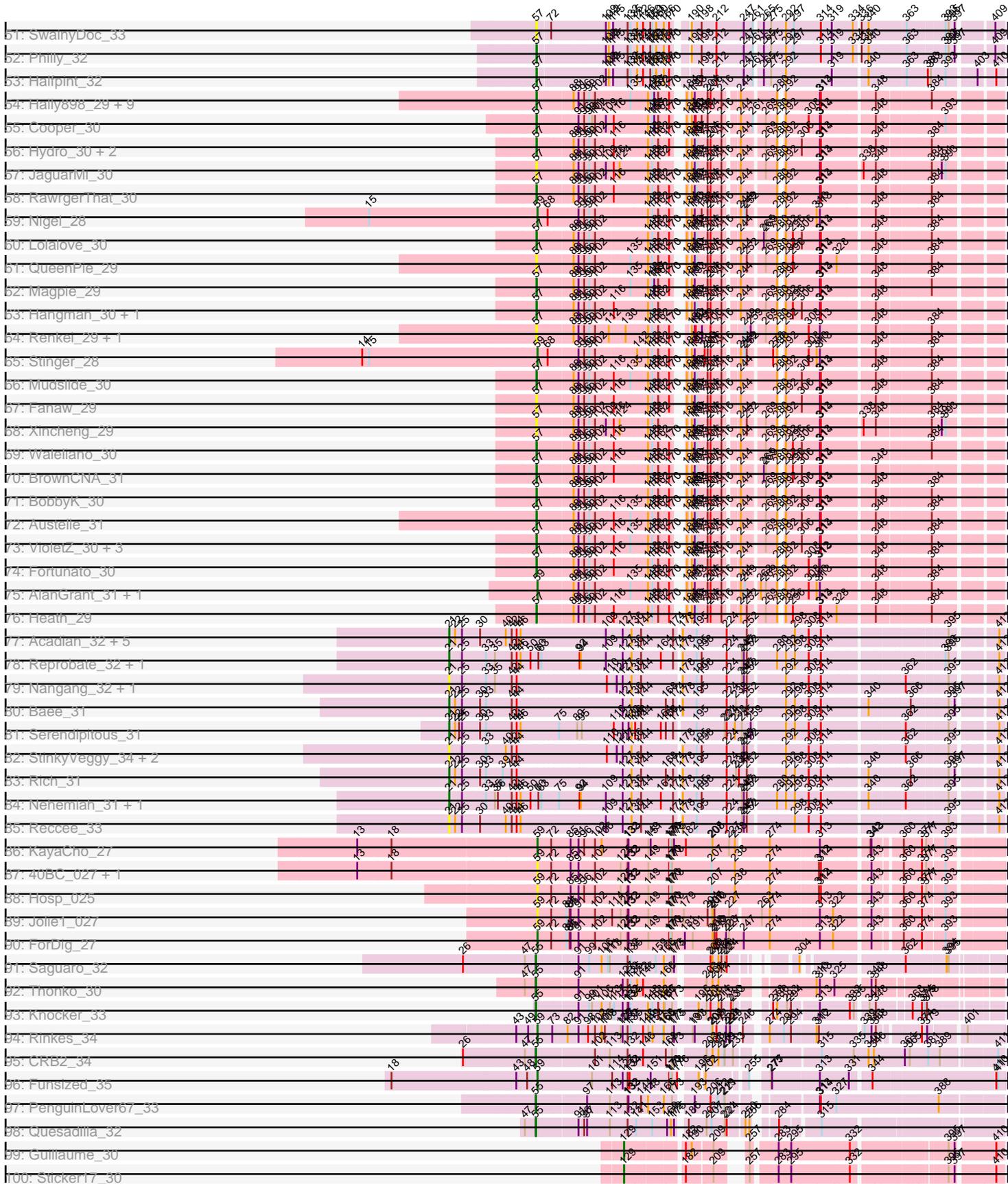


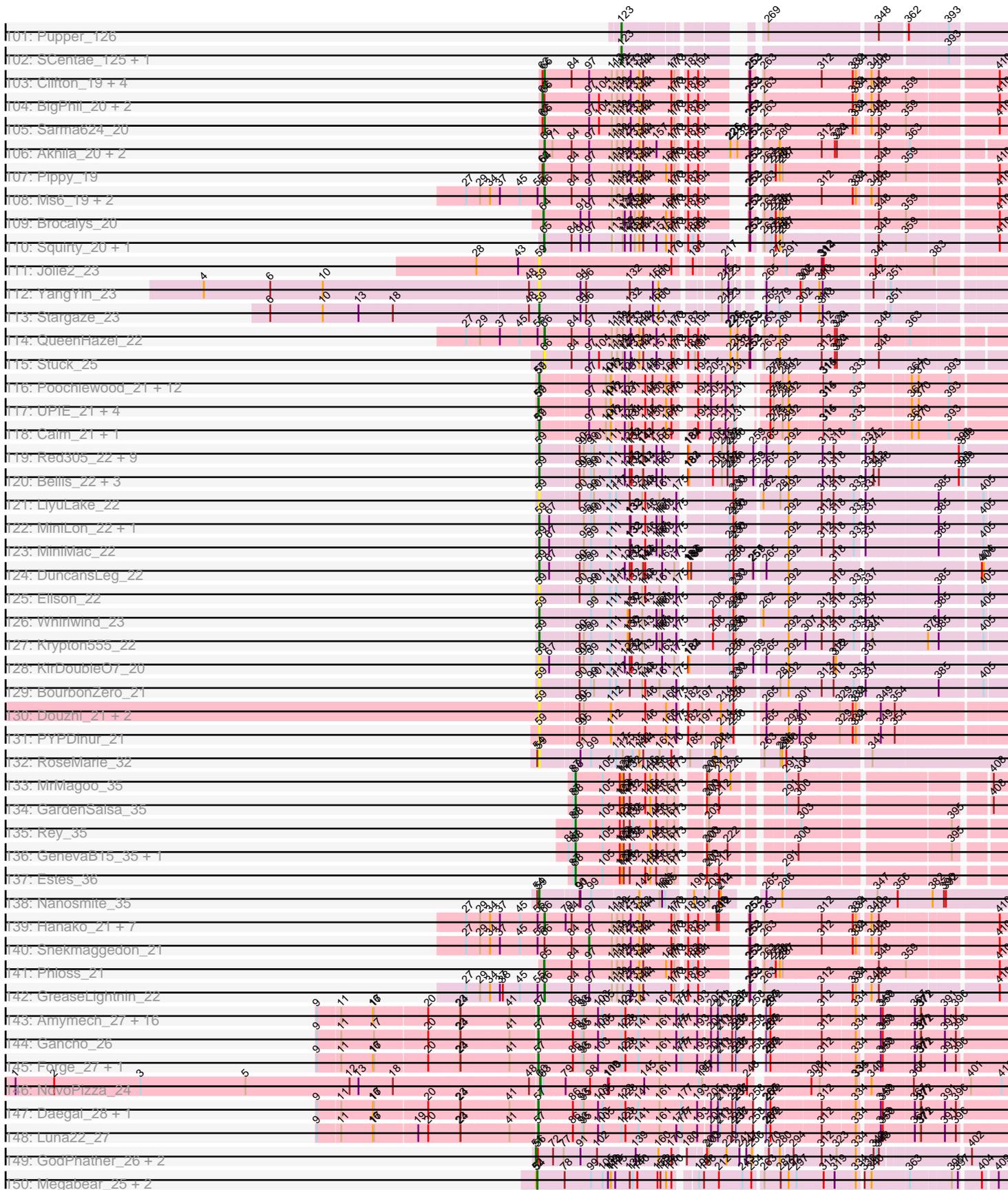
Pham 290738



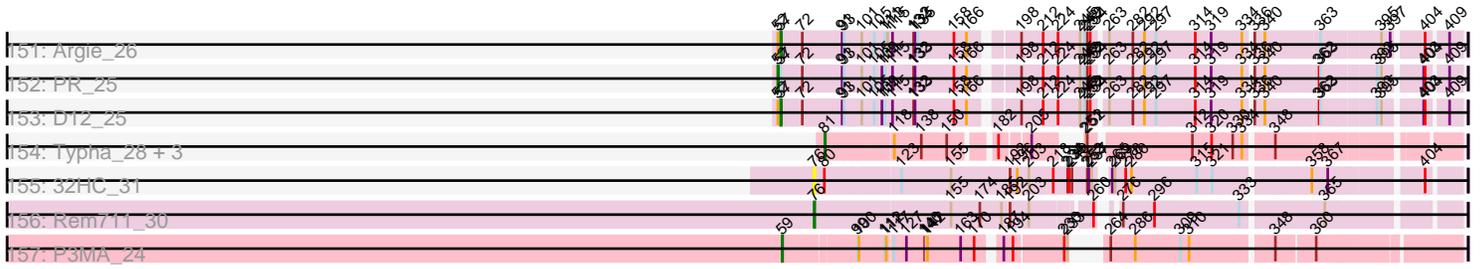
Pham 290738



Pham 290738



Pham 290738



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 290738 Report

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

Pham number 290738 has 372 members, 57 are drafts.

Phages represented in each track:

- Track 1 : SororFago_32
- Track 2 : Gail_32
- Track 3 : Luchador_34
- Track 4 : KingCyrus_34
- Track 5 : EvilGenius_34
- Track 6 : ChipMunk_34
- Track 7 : Keziacharles14_32
- Track 8 : Arissanae_32
- Track 9 : Vanisoa_31
- Track 10 : Mao1_27, Sejanus_28
- Track 11 : Mask_28
- Track 12 : Dori_29
- Track 13 : JustASigh_22
- Track 14 : Waterdiva_33, Freya_32, Scoot17C_33, Mesh1_33, AltPhacts_33, Craff_33, Orion_33, Zonia_33, GeneCoco_33, Badfish_33, Adriana_33, Longacauda_32, Phareon_33, Kahve_32, Eugenia_33, Nathan_33, HighStump_32, HogWash_32, Katniss_33, PhatCats2014_33, PG1_33, Piglet_0032, HenryJackson_32, Pinkman_32, ThreeOh3D2_33, Vista_33, Serendipity_33, Labeouficaum_32, Jillium_32, Solosis_32, Kikipoo_33, Childish_32, Derpp_32, TyrionL_32, Boehler_33, Pipsqueak_33, Fang_33, Wallhey_32, Chipette_34
- Track 15 : Kwksand96_32, Durga_33, MelsMeow_32, Ashraf_32, Emiris_33, Cobra_33, JDog_32, ElvisPhasley_33, Pops_33, Cornbread_32, Trypo_33, ImtiyazSitla_32, Khan1_33, CharlieGBrown_32, Chuni_32, Rimu_33, MrPhizzler_33, Maskar_32
- Track 16 : Cosmolli16_32
- Track 17 : Imvubu_25
- Track 18 : Indlovu_29
- Track 19 : LilMcDreamy_28
- Track 20 : Hashim76_35
- Track 21 : Zenteno07_35
- Track 22 : Lars_33, Rosebush_33, Allegro_33, Arbiter_33, Hedgerow_33, FrenchFry_33
- Track 23 : Kaleb_33, LizLemon_33, Eaglehorse_33
- Track 24 : West99_33
- Track 25 : PrinceCharming_33, Blocker23_33, Lephleur_33
- Track 26 : Kolhan_33
- Track 27 : Qyrzula_31

- Track 28 : Glass_33, Phantasmagoria_33, Faze9_33
- Track 29 : Opia_33, Holeinone_33, Coffee_33, Tres_33
- Track 30 : Bananafish_33
- Track 31 : LilSmirk_33, ItsyBitsy1_33, Calamitous_33
- Track 32 : Boyle_33, Rhinoforte_33
- Track 33 : Ares_33
- Track 34 : Laurie_33
- Track 35 : Brownie5_33, Tinciduntolum_34
- Track 36 : Vic9_00033
- Track 37 : Godines_33
- Track 38 : Devonte_33, RomaT_33, Nozo_33, ChaChing_33, Morty007_33, Marley1013_33, OrangeOswald_33, Akoma_33, Chandler_33, LestyG_33, Abinghost_33, Deenasa_33, Shenandoah_33, RagingRooster_33, Chentzyk_32, Audrey_33, Heathcliff_33, SynergyX_33, Neos5_33, Daisy_33, Chalmers_33
- Track 39 : Rita1961_33, Obutu_33, Mulaychimus_33
- Track 40 : Athena_34, Gervas_33, Tydolla_33, Baloo_33
- Track 41 : Glubnar_34
- Track 42 : Mortcellus_32
- Track 43 : Yahalom_33, Phlyer_33, Jackstina_30, Gadget_34, Phaedrus_31, Marlia_33, HarveySr_33
- Track 44 : SlippinJimmy_33, Kamiyu_33, Yinz_33
- Track 45 : Casbah_32
- Track 46 : TinyTerror_33
- Track 47 : Olivio_32, Ben11_32, Kronus_32
- Track 48 : MmasiCarm_33
- Track 49 : GlenHope_34, Compostia_34
- Track 50 : Bernardo_33
- Track 51 : SwainyDoc_33
- Track 52 : Philly_32
- Track 53 : Halfpint_32
- Track 54 : Hally898_29, Antihero_29, Ahwei_29, Poster_29, JAMaL_30, ChrisnMich_29, Lambano_29, Epah_29, GinPorsche_29, Nanao_29
- Track 55 : Cooper_30
- Track 56 : Hydro_30, Mithril_30, Zemanar_31
- Track 57 : JaguarMi_30
- Track 58 : RawrgerThat_30
- Track 59 : Nigel_28
- Track 60 : Lolalove_30
- Track 61 : QueenPie_29
- Track 62 : Magpie_29
- Track 63 : Hangman_30, JoyceMaria_30
- Track 64 : Renkei_29, LittleDigger_29
- Track 65 : Stinger_28
- Track 66 : Mudslide_30
- Track 67 : Fanaw_29
- Track 68 : Xincheng_29
- Track 69 : Waleliano_30
- Track 70 : BrownCNA_31
- Track 71 : BobbyK_30
- Track 72 : Austelle_31
- Track 73 : VioletZ_30, Prince_30, Apex_30, Frederick_30
- Track 74 : Fortunato_30
- Track 75 : AlanGrant_31, Vincenzo_31

- Track 76 : Heath_29
- Track 77 : Acadian_32, Suigeneris_32, Rita130_32, EastView9101_31, Donny_32, SirJeffery_32
- Track 78 : Reprobate_32, Phelemich_32
- Track 79 : Nangang_32, DigitDog_32
- Track 80 : Bae_31
- Track 81 : Serendipitous_31
- Track 82 : StinkyVeggy_34, KarasumaRum_34, Shenyu_32
- Track 83 : Rich_31
- Track 84 : Nehemiah_31, Mysterious_32
- Track 85 : Reccee_33
- Track 86 : KayaCho_27
- Track 87 : 40BC_027, 39HC_027
- Track 88 : Hosp_025
- Track 89 : Jolie1_027
- Track 90 : ForDig_27
- Track 91 : Saguaro_32
- Track 92 : Thonko_30
- Track 93 : Knocker_33
- Track 94 : Rinkes_34
- Track 95 : CRB2_34
- Track 96 : Funsized_35
- Track 97 : PenguinLover67_33
- Track 98 : Quesadilla_32
- Track 99 : Guillaume_30
- Track 100 : Sticker17_30
- Track 101 : Pupper_126
- Track 102 : SCentae_125, CherryTomatoes_125
- Track 103 : Clifton_19, LastJedi_19, Crumble_19, Jennelsea_19, Koella_19
- Track 104 : BigPhil_20, Cerasum_20, Velveteen_20
- Track 105 : Sarma624_20
- Track 106 : Akhila_20, Xula_21, MilanaBonita_20
- Track 107 : Pippy_19
- Track 108 : Ms6_19, SpongeBob_21, Jamie19_21
- Track 109 : Brocalys_20
- Track 110 : Squirty_20, Fulbright_21
- Track 111 : Jolie2_23
- Track 112 : YangYin_23
- Track 113 : Stargaze_23
- Track 114 : QueenHazel_22
- Track 115 : Stuck_25
- Track 116 : Poochiewood_21, Tyson_21, Wamburgxpress_21, Silverleaf_21, AvadaKedavra_21, Acquire49_21, OhShagHennessy_21, Rose5_21, Halena_21, Wyatt2_21, MAckerman_21, Enceladus_21, DirkDirk_21
- Track 117 : UPIE_21, LeBron_21, Appletree2_21, CicholasNage_21, JoeDirt_21
- Track 118 : Calm_21, Zaria_21
- Track 119 : Red305_22, Jubie_22, Lumos_22, Snenia_22, TriFive_22, Nicholas_22, Clautastrophe_22, Kingsolomon_22, MsGreen_22, Jobypre_22
- Track 120 : Bellis_22, Finnry_22, Moostard_22, Samty_22
- Track 121 : LiyuLake_22
- Track 122 : MiniLon_22, Lolly9_22
- Track 123 : MiniMac_22
- Track 124 : DuncansLeg_22

- Track 125 : Ellson_22
- Track 126 : Whirlwind_23
- Track 127 : Krypton555_22
- Track 128 : KirDoubleO7_20
- Track 129 : BourbonZero_21
- Track 130 : Douzhi_21, Sheng711_21, BrainDrainer_22
- Track 131 : PYPDinur_21
- Track 132 : RoseMarie_32
- Track 133 : MrMagoo_35
- Track 134 : GardenSalsa_35
- Track 135 : Rey_35
- Track 136 : GenevaB15_35, Aziz_35
- Track 137 : Estes_36
- Track 138 : Nanosmite_35
- Track 139 : Hanako_21, Redi_21, Spinach_21, Nenae_21, PhancyPhin_21, BabeRuth_21, ShrimpFriedEgg_21, Purgamenstris_21
- Track 140 : Snekmaggedon_21
- Track 141 : Phloss_21
- Track 142 : GreaseLightnin_22
- Track 143 : Amymech_27, Webster2_27, Giles_27, Gravaillia_27, LilHazelNut_27, Kinbote_27, Ubuntu_27, BloominB_27, Hadrien_27, DeepSoil15_27, Evanesce_27, HH92_27, OBUpride_27, Ein37_27, Dewey_27, Hail_27, Wishmaker_27
- Track 144 : Gancho_26
- Track 145 : Forge_27, Luke_27
- Track 146 : NovoPizza_24
- Track 147 : Daegal_28, Amochick_27
- Track 148 : Luna22_27
- Track 149 : GodPhather_26, MasterPo_33, Jeon_25
- Track 150 : Megabear_25, Taptic_25, Cepens_25
- Track 151 : Argie_26
- Track 152 : PR_25
- Track 153 : D12_25
- Track 154 : Typha_28, Hilltopfarm_28, Faiyaz_28, AuntGwenStacy_28
- Track 155 : 32HC_31
- Track 156 : Rem711_30
- Track 157 : P3MA_24

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

The start number called the most often in the published annotations is 57, it was called in 97 of the 315 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_33, Ahwei_29, Akoma_33, Amochick_27, Amymech_27, Antihero_29, Apex_30, Appletree2_21, Argie_26, Athena_34, Audrey_33, Austelle_31, Baloo_33, Ben11_32, Bernardo_33, BloominB_27, BobbyK_30, BrownCNA_31, Casbah_32, ChaChing_33, Chalmers_33, Chandler_33, Chentzyk_32, ChrisnMich_29, CicholasNage_21, Compostia_34, Cooper_30, D12_25, Daegal_28, Daisy_33, Deenasa_33, DeepSoil15_27, Devonte_33, Dewey_27, Ein37_27, Epah_29, Evanesce_27, Fanaw_29, Forge_27, Fortunato_30, Frederick_30, Gadjet_34,

Gancho_26, Gervas_33, Giles_27, GinPorsche_29, GlenHope_34, Glubnar_34, Gravaiilia_27, HH92_27, Hadrien_27, Hail_27, Halfpint_32, Hally898_29, Hangman_30, HarveySr_33, Heath_29, Heathcliff_33, Hydro_30, JAMaL_30, Jackstina_30, JaguarMi_30, JoeDirt_21, JoyceMaria_30, Kamiyu_33, Kinbote_27, Kronus_32, Lambano_29, LeBron_21, LestyG_33, LilHazelNut_27, LittleDigger_29, Lolalove_30, Luke_27, Luna22_27, Magpie_29, Marley1013_33, Marlia_33, Mithril_30, MmasiCarm_33, Mortcellus_32, Morty007_33, Mudslide_30, Mulaychimus_33, Nanao_29, Neos5_33, Nozo_33, OBUpride_27, Obutu_33, Olivio_32, OrangeOswald_33, Phaedrus_31, Philly_32, Phlyer_33, Poster_29, Prince_30, QueenPie_29, RagingRooster_33, RawrgerThat_30, Renkei_29, Rita1961_33, RomaT_33, Shenandoah_33, SlippinJimmy_33, SwainyDoc_33, SynergyX_33, TinyTerror_33, Tydolla_33, UPIE_21, Ubuntu_27, VioletZ_30, Waleliano_30, Webster2_27, Wishmaker_27, Xincheng_29, Yahalom_33, Yinz_33, Zemanar_31,

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

- Acquire49_21, AvadaKedavra_21, Calm_21, DirkDirk_21, Enceladus_21, Halena_21, MAckerman_21, OhShagHennessy_21, PR_25, Poochiewood_21, Rose5_21, Silverleaf_21, Tyson_21, Wamburgrxpress_21, Wyatt2_21, Zaria_21,

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

- 32HC_31, 39HC_027, 40BC_027, Acadian_32, Adriana_33, Akhila_20, AlanGrant_31, Allegro_33, AltPhacts_33, Arbiter_33, Ares_33, Arissanee_32, Ashraf_32, AuntGwenStacy_28, Aziz_35, BabeRuth_21, Badfish_33, Bae_31, Bananafish_33, Bellis_22, BigPhil_20, Blocker23_33, Boehler_33, BourbonZero_21, Boyle_33, BrainDrainer_22, Brocalys_20, Brownie5_33, CRB2_34, Calamitous_33, Cepens_25, Cerasum_20, CharlieGBrown_32, CherryTomatoes_125, Childish_32, ChipMunk_34, Chipette_34, Chuni_32, Clautastrophe_22, Clifton_19, Cobra_33, Coffee_33, Cornbread_32, Cosmolli16_32, Craff_33, Crumble_19, Derpp_32, DigitDog_32, Donny_32, Dori_29, Douzhi_21, DuncansLeg_22, Durga_33, Eaglehorse_33, EastView9101_31, Ellson_22, ElvisPhasley_33, Emiris_33, Estes_36, Eugenia_33, EvilGenius_34, Faiyaz_28, Fang_33, Faze9_33, Finnry_22, ForDig_27, FrenchFry_33, Freya_32, Fulbright_21, Funsized_35, Gail_32, GardenSalsa_35, GeneCoco_33, GenevaB15_35, Glass_33, GodPhather_26, Godines_33, GreaseLightnin_22, Guillaume_30, Hanako_21, Hashim76_35, Hedgerow_33, HenryJackson_32, HighStump_32, Hilltopfarm_28, HogWash_32, Holeinone_33, Hosp_025, ImtiyazSitla_32, Imvubu_25, Indlovu_29, ItsyBitsy1_33, JDog_32, Jamie19_21, Jennelsea_19, Jeon_25, Jillium_32, Jobypre_22, Jolie1_027, Jolie2_23, Jubie_22, JustASigh_22, Kahve_32, Kaleb_33, KarasumaRum_34, Katniss_33, KayaCho_27, Keziacharles14_32, Khan1_33, Kikipoo_33, KingCyrus_34, Kingsolomon_22, KirDoubleO7_20, Knocker_33, Koella_19, Kolhan_33, Krypton555_22, Kwksand96_32, Labeouficaum_32, Lars_33, LastJedi_19, Laurie_33, Lephleur_33, LilMcDreamy_28, LilSmirk_33, LiyuLake_22, LizLemon_33, Lolly9_22, Longacauda_32, Luchador_34, Lumos_22, Mao1_27, Mask_28, Maskar_32, MasterPo_33, Megabear_25, MelsMeow_32, Mesh1_33, MilanaBonita_20, MiniLon_22, MiniMac_22, Moostard_22, MrMagoo_35, MrPhizzler_33, Ms6_19, MsGreen_22, Mysterious_32, Nangang_32, Nanosmite_35, Nathan_33, Nehemiah_31, Nenae_21, Nicholas_22, Nigel_28, NovoPizza_24, Opia_33, Orion_33, P3MA_24, PG1_33, PYPDinur_21, PenguinLover67_33, PhancyPhin_21, Phantasmagoria_33, Phareon_33, PhatCats2014_33, Phelemich_32, Phloss_21, Piglet_0032, Pinkman_32, Pippy_19, Pipsqueak_33, Pops_33, PrinceCharming_33, Pupper_126, Purgamenstris_21, QueenHazel_22, Quesadilla_32, Qyrzula_31, Reccee_33, Red305_22, Redi_21, Rem711_30,

Reprobate_32, Rey_35, Rhinoforte_33, Rich_31, Rimu_33, Rinkes_34, Rita130_32, RoseMarie_32, Rosebush_33, SCentae_125, Saguaro_32, Samty_22, Sarma624_20, Scoot17C_33, Sejanus_28, Serendipitous_31, Serendipity_33, Sheng711_21, Shenyu_32, ShrimpFriedEgg_21, SirJeffery_32, Snekmaggon_21, Snenia_22, Solosis_32, SororFago_32, Spinach_21, SpongeBob_21, Squirty_20, Stargaze_23, Sticker17_30, Stinger_28, StinkyVeggy_34, Stuck_25, Suigeneris_32, Taptic_25, Thonko_30, ThreeOh3D2_33, Tinciduntolum_34, Tres_33, TriFive_22, Trypo_33, Typha_28, TyrionL_32, Vanisoa_31, Velveteen_20, Vic9_00033, Vincenzo_31, Vista_33, Wallhey_32, Waterdiva_33, West99_33, Whirlwind_23, Xula_21, YangYin_23, Zenteno07_35, Zonia_33,

Summary by start number:

Start 21:

- Found in 19 of 372 (5.1%) of genes in pham
- Manual Annotations of this start: 10 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_32 (B5), Bae_31 (B5), DigitDog_32 (B5), Donny_32 (B5), EastView9101_31 (B5), KarasumaRum_34 (B5), Mysterious_32 (B5), Nangang_32 (B5), Nehemiah_31 (B5), Phelemich_32 (B5), Reccee_33 (B5), Reprobate_32 (B5), Rich_31 (B5), Rita130_32 (B5), Serendipitous_31 (B5), Shenyu_32 (B5), SirJeffery_32 (B5), StinkyVeggy_34 (B5), Suigeneris_32 (B5),

Start 51:

- Found in 33 of 372 (8.9%) of genes in pham
- Manual Annotations of this start: 10 of 315
- Called 30.3% of time when present
- Phage (with cluster) where this start called: Bananafish_33 (B2), Blocker23_33 (B2), Brownie5_33 (B2), Dori_29 (AD), GodPhather_26 (W), Jeon_25 (W), Lephleur_33 (B2), MasterPo_33 (B2), PrinceCharming_33 (B2), Tinciduntolum_34 (B2),

Start 52:

- Found in 11 of 372 (3.0%) of genes in pham
- Manual Annotations of this start: 2 of 315
- Called 18.2% of time when present
- Phage (with cluster) where this start called: Ares_33 (B2), PR_25 (W),

Start 53:

- Found in 1 of 372 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07_35 (B13),

Start 54:

- Found in 10 of 372 (2.7%) of genes in pham
- Manual Annotations of this start: 7 of 315
- Called 70.0% of time when present
- Phage (with cluster) where this start called: Cepens_25 (W), Godines_33 (B2), Laurie_33 (B2), Megabear_25 (W), Qyrzula_31 (B2), Taptic_25 (W), Vic9_00033 (B2),

Start 55:

- Found in 23 of 372 (6.2%) of genes in pham
- Manual Annotations of this start: 9 of 315
- Called 39.1% of time when present
- Phage (with cluster) where this start called: CRB2_34 (B9), Hashim76_35 (B13), Imvubu_25 (B10), Indlovu_29 (B11), Knocker_33 (B9), PenguinLover67_33 (B9), Quesadilla_32 (B9), Saguaro_32 (B7), Thonko_30 (B8),

Start 56:

- Found in 94 of 372 (25.3%) of genes in pham
- Manual Annotations of this start: 79 of 315
- Called 89.4% of time when present
- Phage (with cluster) where this start called: Adriana_33 (B1), Allegro_33 (B2), AltPhacts_33 (B1), Arbiter_33 (B2), Ashraf_32 (B1), Badfish_33 (B1), Boehler_33 (B1), Boyle_33 (B2), Calamitous_33 (B2), CharlieGBrown_32 (B1), Childish_32 (B1), Chipette_34 (B1), Chuni_32 (B1), Cobra_33 (B1), Coffee_33 (B2), Cornbread_32 (B1), Cosmolli16_32 (B1), Craff_33 (B1), Derpp_32 (B1), Durga_33 (B1), Eaglehorse_33 (B2), ElvisPhasley_33 (B1), Emiris_33 (B1), Eugenia_33 (B1), Fang_33 (B1), Faze9_33 (B2), FrenchFry_33 (B2), Freya_32 (B1), GeneCoco_33 (B1), Glass_33 (B2), Hedgerow_33 (B2), HenryJackson_32 (B1), HighStump_32 (B1), HogWash_32 (B1), Holeinone_33 (B2), ImtiyazSitla_32 (B1), ItsyBitsy1_33 (B2), JDog_32 (B1), Jillium_32 (B1), Kahve_32 (B1), Kaleb_33 (B2), Katniss_33 (B1), Khan1_33 (B1), Kikipoo_33 (B1), Kolhan_33 (B2), Kwksand96_32 (B1), Labeouficaum_32 (B1), Lars_33 (B2), LilSmirk_33 (B2), LizLemon_33 (B2), Longacauda_32 (B1), Mao1_27 (AD), Mask_28 (AD), Maskar_32 (B1), MelsMeow_32 (B1), Mesh1_33 (B1), MrPhizzler_33 (B1), Nathan_33 (B1), Opia_33 (B2), Orion_33 (B1), PG1_33 (B1), Phantasmagoria_33 (B2), Phareon_33 (B1), PhatCats2014_33 (B1), Piglet_0032 (B1), Pinkman_32 (B1), Pipsqueak_33 (B1), Pops_33 (B1), Rhinoforte_33 (B2), Rimu_33 (B1), Rosebush_33 (B2), Scoot17C_33 (B1), Sejanus_28 (AD), Serendipity_33 (B1), Solosis_32 (B1), ThreeOh3D2_33 (B1), Tres_33 (B2), Trypo_33 (B1), TyrionL_32 (B1), Vista_33 (B1), Wallhey_32 (B1), Waterdiva_33 (B1), West99_33 (B2), Zonia_33 (B1),

Start 57:

- Found in 134 of 372 (36.0%) of genes in pham
- Manual Annotations of this start: 97 of 315
- Called 88.1% of time when present
- Phage (with cluster) where this start called: Abinghost_33 (B3), Ahwei_29 (B4), Akoma_33 (B3), Amochick_27 (Q), Amymech_27 (Q), Antihero_29 (B4), Apex_30 (B4), Appletree2_21 (L1), Argie_26 (W), Athena_34 (B3), Audrey_33 (B3), Austelle_31 (B4), Baloo_33 (B3), Ben11_32 (B3), Bernardo_33 (B3), BloominB_27 (Q), BobbyK_30 (B4), BrownCNA_31 (B4), Casbah_32 (B3), ChaChing_33 (B3), Chalmers_33 (B3), Chandler_33 (B3), Chentzyk_32 (B3), ChrisnMich_29 (B4), CicholasNage_21 (L1), Compostia_34 (B3), Cooper_30 (B4), D12_25 (W), Daegal_28 (Q), Daisy_33 (B3), Deenasa_33 (B3), DeepSoil15_27 (Q), Devonte_33 (B3), Dewey_27 (Q), Ein37_27 (Q), Epah_29 (B4), Evanesce_27 (Q), Fanaw_29 (B4), Forge_27 (Q), Fortunato_30 (B4), Frederick_30 (B4), Gadget_34 (B3), Gancho_26 (Q), Gervas_33 (B3), Giles_27 (Q), GinPorsche_29 (B4), GlenHope_34 (B3), Glubnar_34 (B3), Gravallia_27 (Q), HH92_27 (Q), Hadrien_27 (Q), Hail_27 (Q), Halfpint_32 (B3), Hally898_29 (B4), Hangman_30 (B4), HarveySr_33 (B3), Heath_29 (B4), Heathcliff_33 (B3), Hydro_30 (B4), JAMaL_30 (B4), Jackstina_30 (B3), JaguarMi_30 (B4), JoeDirt_21 (L1), JoyceMaria_30 (B4), Kamiyu_33 (B3), Kinbote_27 (Q), Kronus_32 (B3), Lambano_29 (B4), LeBron_21 (L1), LestyG_33 (B3), LilHazelNut_27 (Q), LittleDigger_29 (B4), Lolalove_30 (B4), Luke_27 (Q),

Luna22_27 (Q), Magpie_29 (B4), Marley1013_33 (B3), Marlia_33 (B3), Mithril_30 (B4), MmasiCarm_33 (B3), Mortcellus_32 (B3), Morty007_33 (B3), Mudslide_30 (B4), Mulaychimus_33 (B3), Nanao_29 (B4), Neos5_33 (B3), Nozo_33 (B3), OBUpride_27 (Q), Obutu_33 (B3), Olivio_32 (B3), OrangeOswald_33 (B3), Phaedrus_31 (B3), Philly_32 (B3), Phlyer_33 (B3), Poster_29 (B4), Prince_30 (B4), QueenPie_29 (B4), RagingRooster_33 (B3), RawrgerThat_30 (B4), Renkei_29 (B4), Rita1961_33 (B3), RomaT_33 (B3), Shenandoah_33 (B3), SlippinJimmy_33 (B3), SwainyDoc_33 (B3), SynergyX_33 (B3), TinyTerror_33 (B3), Tydolla_33 (B3), UPIE_21 (L1), Ubuntu_27 (Q), VioletZ_30 (B4), Waleliano_30 (B4), Webster2_27 (Q), Wishmaker_27 (Q), Xincheng_29 (B4), Yahalom_33 (B3), Yinz_33 (B3), Zemanar_31 (B4),

Start 58:

- Found in 2 of 372 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arissanae_32 (A9), Vanisoa_31 (A9),

Start 59:

- Found in 74 of 372 (19.9%) of genes in pham
- Manual Annotations of this start: 52 of 315
- Called 93.2% of time when present
- Phage (with cluster) where this start called: 39HC_027 (B6), 40BC_027 (B6), Acquire49_21 (L1), AlanGrant_31 (B4), AvadaKedavra_21 (L1), Bellis_22 (L3), BourbonZero_21 (L3), BrainDrainer_22 (L4), Calm_21 (L1), ChipMunk_34 (A2), Clautastrophe_22 (L3), DirkDirk_21 (L1), Douzhi_21 (L4), DuncansLeg_22 (L3), Ellson_22 (L3), Enceladus_21 (L1), EvilGenius_34 (A2), Finnry_22 (L3), ForDig_27 (B6), Funsized_35 (B9), Gail_32 (A14), Halena_21 (L1), Hosp_025 (B6), Jobypre_22 (L3), Jolie1_027 (B6), Jolie2_23 (G4), Jubie_22 (L3), KayaCho_27 (B6), Keziacharles14_32 (A9), KingCyrus_34 (A2), Kingsolomon_22 (L3), KirDoubleO7_20 (L3), Krypton555_22 (L3), LilMcDreamy_28 (B12), LiyuLake_22 (L3), Lolly9_22 (L3), Luchador_34 (A14), Lumos_22 (L3), MAckerman_21 (L1), MiniLon_22 (L3), MiniMac_22 (L3), Moostard_22 (L3), MsGreen_22 (L3), Nanosmite_35 (M3), Nicholas_22 (L3), Nigel_28 (B4), OhShagHennessy_21 (L1), P3MA_24 (singleton), PYPDinur_21 (L4), Poochiewood_21 (L1), Red305_22 (L3), Rinkes_34 (B9), Rose5_21 (L1), RoseMarie_32 (M1), Samty_22 (L3), Sheng711_21 (L4), Silverleaf_21 (L1), Snenia_22 (L3), SororFago_32 (A14), Stargaze_23 (G5), Stinger_28 (B4), TriFive_22 (L3), Tyson_21 (L1), Vincenzo_31 (B4), Wamburgrxpress_21 (L1), Whirlwind_23 (L3), Wyatt2_21 (L1), YangYin_23 (G5), Zaria_21 (L1),

Start 60:

- Found in 5 of 372 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 315
- Called 20.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_24 (Q),

Start 62:

- Found in 10 of 372 (2.7%) of genes in pham
- Manual Annotations of this start: 3 of 315
- Called 30.0% of time when present
- Phage (with cluster) where this start called: BigPhil_20 (F1), Cerasum_20 (F1), Velveteen_20 (F1),

Start 64:

- Found in 2 of 372 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brocalys_20 (F1), Pippy_19 (F1),

Start 65:

- Found in 3 of 372 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fulbright_21 (N), Phloss_21 (N), Squirty_20 (F3),

Start 66:

- Found in 27 of 372 (7.3%) of genes in pham
- Manual Annotations of this start: 20 of 315
- Called 85.2% of time when present
- Phage (with cluster) where this start called: Akhila_20 (F1), BabeRuth_21 (N), Clifton_19 (F1), Crumble_19 (F1), GreaseLightnin_22 (P1), Hanako_21 (N), Jamie19_21 (N), Jennelsea_19 (F1), Koella_19 (F1), LastJedi_19 (F1), MilanaBonita_20 (F1), Ms6_19 (F1), Nenae_21 (N), PhancyPhin_21 (N), Purgamenstris_21 (N), QueenHazel_22 (I1), Redi_21 (N), Sarma624_20 (F1), ShrimpFriedEgg_21 (N), Spinach_21 (N), SpongeBob_21 (N), Stuck_25 (I2), Xula_21 (I1),

Start 76:

- Found in 3 of 372 (0.8%) of genes in pham
- Manual Annotations of this start: 2 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_31 (Z), JustASigh_22 (AH), Rem711_30 (Z),

Start 81:

- Found in 8 of 372 (2.2%) of genes in pham
- Manual Annotations of this start: 3 of 315
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AuntGwenStacy_28 (Y), Faiyaz_28 (Y), Hilltopfarm_28 (Y), Typha_28 (Y),

Start 88:

- Found in 43 of 372 (11.6%) of genes in pham
- Manual Annotations of this start: 6 of 315
- Called 14.0% of time when present
- Phage (with cluster) where this start called: Aziz_35 (M2), Estes_36 (M2), GardenSalsa_35 (M2), GenevaB15_35 (M2), MrMagoo_35 (M2), Rey_35 (M2),

Start 97:

- Found in 56 of 372 (15.1%) of genes in pham
- Manual Annotations of this start: 1 of 315
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Snekmaggon_21 (N),

Start 123:

- Found in 27 of 372 (7.3%) of genes in pham
- Manual Annotations of this start: 3 of 315
- Called 11.1% of time when present
- Phage (with cluster) where this start called: CherryTomatoes_125 (DO), Pupper_126 (DO), SCentae_125 (DO),

Start 129:

- Found in 2 of 372 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 315
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Guillaume_30 (CS3), Sticker17_30 (CS3),

Summary by clusters:

There are 39 clusters represented in this pham: DO, singleton, B10, B11, M1, B13, M3, M2, A14, G5, G4, I1, I2, A2, A9, CS3, P1, AD, AH, N, Q, L4, L3, W, L1, Y, Z, F1, F3, B4, B5, B6, B7, B1, B2, B3, B12, B8, B9,

Info for manual annotations of cluster A14:

- Start number 59 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 59 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A9:

- Start number 58 was manually annotated 2 times for cluster A9.
- Start number 59 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AD:

- Start number 51 was manually annotated 1 time for cluster AD.
- Start number 56 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AH:

- Start number 76 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster B1:

- Start number 56 was manually annotated 54 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 55 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 55 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 59 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 53 was manually annotated 1 time for cluster B13.
- Start number 55 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B2:

- Start number 51 was manually annotated 7 times for cluster B2.
- Start number 52 was manually annotated 1 time for cluster B2.
- Start number 54 was manually annotated 4 times for cluster B2.
- Start number 56 was manually annotated 22 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 57 was manually annotated 46 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 57 was manually annotated 22 times for cluster B4.
- Start number 59 was manually annotated 4 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 21 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 59 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:

- Start number 55 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 55 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 55 was manually annotated 4 times for cluster B9.
- Start number 59 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster CS3:

- Start number 129 was manually annotated 2 times for cluster CS3.

Info for manual annotations of cluster DO:

- Start number 123 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster F1:

- Start number 62 was manually annotated 3 times for cluster F1.
- Start number 64 was manually annotated 2 times for cluster F1.
- Start number 66 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 65 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster G5:

- Start number 59 was manually annotated 1 time for cluster G5.

Info for manual annotations of cluster I1:

- Start number 66 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster L1:

- Start number 57 was manually annotated 5 times for cluster L1.
- Start number 59 was manually annotated 14 times for cluster L1.

Info for manual annotations of cluster L3:

- Start number 59 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster M2:

- Start number 88 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:

- Start number 59 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster N:

- Start number 65 was manually annotated 2 times for cluster N.
- Start number 66 was manually annotated 10 times for cluster N.
- Start number 97 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:

- Start number 66 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster Q:

- Start number 57 was manually annotated 22 times for cluster Q.
- Start number 60 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster W:

- Start number 51 was manually annotated 2 times for cluster W.
- Start number 52 was manually annotated 1 time for cluster W.
- Start number 54 was manually annotated 3 times for cluster W.
- Start number 57 was manually annotated 2 times for cluster W.

Info for manual annotations of cluster Y:

- Start number 81 was manually annotated 3 times for cluster Y.

Info for manual annotations of cluster Z:

- Start number 76 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_31 Start: 25140, Stop: 26351, Start Num: 76

Candidate Starts for 32HC_31:

(Start: 76 @25140 has 2 MA's), (80, 25161), (Start: 123 @25299 has 3 MA's), (155, 25401), (192, 25524), (196, 25539), (203, 25560), (218, 25611), (234, 25641), (236, 25644), (240, 25650), (252, 25677), (253, 25680), (257, 25686), (265, 25701), (269, 25707), (278, 25728), (280, 25740), (315, 25872), (321, 25899), (358, 26082), (367, 26115), (404, 26289),

Gene: 39HC_027 Start: 30067, Stop: 31293, Start Num: 59

Candidate Starts for 39HC_027:

(13, 29542), (18, 29644), (Start: 59 @30067 has 52 MA's), (72, 30106), (85, 30157), (91, 30178), (102, 30223), (125, 30283), (132, 30304), (133, 30307), (149, 30364), (170, 30418), (171, 30421), (173, 30427), (207, 30544), (238, 30613), (274, 30718), (312, 30850), (314, 30856), (343, 30979), (360, 31039), (374, 31093), (377, 31099), (393, 31147),

Gene: 40BC_027 Start: 30067, Stop: 31293, Start Num: 59

Candidate Starts for 40BC_027:

(13, 29542), (18, 29644), (Start: 59 @30067 has 52 MA's), (72, 30106), (85, 30157), (91, 30178), (102, 30223), (125, 30283), (132, 30304), (133, 30307), (149, 30364), (170, 30418), (171, 30421), (173, 30427), (207, 30544), (238, 30613), (274, 30718), (312, 30850), (314, 30856), (343, 30979), (360, 31039), (374, 31093), (377, 31099), (393, 31147),

Gene: Abinghost_33 Start: 32219, Stop: 33421, Start Num: 57

Candidate Starts for Abinghost_33:

(Start: 57 @32219 has 97 MA's), (72, 32252), (109, 32396), (112, 32405), (115, 32414), (132, 32453), (135, 32462), (142, 32480), (146, 32498), (150, 32516), (153, 32522), (160, 32534), (166, 32552), (170, 32567), (190, 32600), (198, 32627), (212, 32672), (247, 32753), (261, 32780), (265, 32798), (275, 32816), (292, 32858), (297, 32882), (314, 32957), (319, 32987), (334, 33047), (336, 33059), (340, 33077), (363, 33179), (393, 33284), (395, 33290), (397, 33308), (409, 33395),

Gene: Acadian_32 Start: 32586, Stop: 34091, Start Num: 21

Candidate Starts for Acadian_32:

(Start: 21 @32586 has 10 MA's), (22, 32604), (25, 32625), (30, 32679), (40, 32757), (42, 32775), (44, 32790), (46, 32802), (109, 33039), (127, 33090), (136, 33117), (144, 33144), (174, 33231), (178, 33246), (195, 33285), (224, 33375), (252, 33435), (298, 33558), (308, 33597), (314, 33633), (395, 33957), (412, 34077),

Gene: Acquire49_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Acquire49_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: Adriana_33 Start: 32362, Stop: 33522, Start Num: 56

Candidate Starts for Adriana_33:

(Start: 56 @32362 has 79 MA's), (91, 32473), (102, 32518), (139, 32617), (160, 32677), (170, 32713), (180, 32737), (200, 32782), (203, 32788), (220, 32839), (241, 32878), (247, 32881), (256, 32893), (270, 32908), (280, 32932), (294, 32965), (312, 33046), (323, 33091), (334, 33139), (342, 33175), (345, 33184), (348, 33190), (402, 33415),

Gene: Ahwei_29 Start: 31578, Stop: 32735, Start Num: 57

Candidate Starts for Ahwei_29:

(Start: 57 @31578 has 97 MA's), (Start: 88 @31671 has 6 MA's), (91, 31686), (96, 31701), (99, 31713), (102, 31731), (135, 31821), (148, 31872), (153, 31881), (157, 31887), (162, 31899), (170, 31926), (184, 31941), (190, 31947), (193, 31953), (204, 31986), (206, 31995), (216, 32028), (244, 32061), (280, 32151), (292, 32157), (313, 32256), (314, 32259), (348, 32403), (384, 32556),

Gene: Akhila_20 Start: 20281, Stop: 21492, Start Num: 66

Candidate Starts for Akhila_20:

(Start: 66 @20281 has 20 MA's), (71, 20305), (84, 20362), (Start: 97 @20410 has 1 MA's), (113, 20470), (119, 20479), (125, 20494), (133, 20518), (142, 20542), (144, 20554), (157, 20590), (170, 20629), (173, 20638), (182, 20662), (194, 20692), (225, 20776), (226, 20779), (238, 20800), (252, 20836), (253, 20839), (263, 20860), (280, 20902), (312, 21019), (320, 21055), (324, 21061), (348, 21166), (363, 21247),

Gene: Akoma_33 Start: 32223, Stop: 33425, Start Num: 57

Candidate Starts for Akoma_33:

(Start: 57 @32223 has 97 MA's), (72, 32256), (109, 32400), (112, 32409), (115, 32418), (132, 32457), (135, 32466), (142, 32484), (146, 32502), (150, 32520), (153, 32526), (160, 32538), (166, 32556), (170, 32571), (190, 32604), (198, 32631), (212, 32676), (247, 32757), (261, 32784), (265, 32802), (275, 32820), (292, 32862), (297, 32886), (314, 32961), (319, 32991), (334, 33051), (336, 33063), (340, 33081), (363, 33183), (393, 33288), (395, 33294), (397, 33312), (409, 33399),

Gene: AlanGrant_31 Start: 33326, Stop: 34483, Start Num: 59

Candidate Starts for AlanGrant_31:

(Start: 59 @33326 has 52 MA's), (Start: 88 @33419 has 6 MA's), (91, 33434), (96, 33449), (99, 33461), (102, 33479), (135, 33569), (148, 33620), (153, 33629), (162, 33647), (170, 33674), (184, 33689), (190, 33695), (193, 33701), (204, 33734), (206, 33743), (216, 33776), (244, 33809), (249, 33821), (262, 33854), (269, 33869), (280, 33899), (292, 33905), (308, 33971), (310, 33995), (313, 34004), (348, 34151), (384, 34304),

Gene: Allegro_33 Start: 32683, Stop: 33846, Start Num: 56

Candidate Starts for Allegro_33:

(31, 32536), (Start: 51 @32677 has 10 MA's), (Start: 56 @32683 has 79 MA's), (72, 32722), (77, 32752), (91, 32797), (102, 32842), (139, 32941), (160, 33001), (170, 33037), (180, 33061), (200, 33106), (203, 33112), (220, 33163), (241, 33202), (247, 33205), (256, 33217), (270, 33232), (280, 33256), (294, 33289), (312, 33370), (334, 33463), (342, 33499), (345, 33508), (348, 33514), (361, 33574), (402, 33739),

Gene: AltPhacts_33 Start: 32351, Stop: 33511, Start Num: 56

Candidate Starts for AltPhacts_33:

(Start: 56 @32351 has 79 MA's), (91, 32462), (102, 32507), (139, 32606), (160, 32666), (170, 32702), (180, 32726), (200, 32771), (203, 32777), (220, 32828), (241, 32867), (247, 32870), (256, 32882), (270, 32897), (280, 32921), (294, 32954), (312, 33035), (323, 33080), (334, 33128), (342, 33164), (345, 33173), (348, 33179), (402, 33404),

Gene: Amochick_27 Start: 23377, Stop: 24615, Start Num: 57

Candidate Starts for Amochick_27:

(9, 22765), (11, 22831), (16, 22921), (17, 22924), (20, 23074), (23, 23161), (24, 23164), (41, 23302), (Start: 57 @23377 has 97 MA's), (86, 23473), (93, 23500), (95, 23506), (103, 23545), (105, 23554), (Start: 123 @23599 has 3 MA's), (128, 23611), (141, 23650), (161, 23707), (177, 23773), (193, 23812), (205, 23845), (211, 23866), (213, 23872), (228, 23908), (235, 23920), (237, 23923), (258, 23971), (265, 23977), (267, 23980), (272, 23989), (312, 24127), (334, 24220), (349, 24277), (350, 24283), (367, 24367), (371, 24382), (372, 24385), (391, 24451), (396, 24484),

Gene: Amymech_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Amymech_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Antihero_29 Start: 31578, Stop: 32735, Start Num: 57

Candidate Starts for Antihero_29:

(Start: 57 @31578 has 97 MA's), (Start: 88 @31671 has 6 MA's), (91, 31686), (96, 31701), (99, 31713), (102, 31731), (135, 31821), (148, 31872), (153, 31881), (157, 31887), (162, 31899), (170, 31926),

(184, 31941), (190, 31947), (193, 31953), (204, 31986), (206, 31995), (216, 32028), (244, 32061), (280, 32151), (292, 32157), (313, 32256), (314, 32259), (348, 32403), (384, 32556),

Gene: Apex_30 Start: 32785, Stop: 33942, Start Num: 57

Candidate Starts for Apex_30:

(Start: 57 @32785 has 97 MA's), (Start: 88 @32878 has 6 MA's), (91, 32893), (96, 32908), (99, 32920), (102, 32938), (116, 32980), (135, 33028), (148, 33079), (153, 33088), (162, 33106), (170, 33133), (184, 33148), (190, 33154), (193, 33160), (195, 33166), (204, 33193), (206, 33202), (216, 33235), (244, 33268), (269, 33328), (280, 33358), (292, 33364), (306, 33409), (313, 33463), (314, 33466), (348, 33610), (384, 33763),

Gene: Appletree2_21 Start: 21628, Stop: 22803, Start Num: 57

Candidate Starts for Appletree2_21:

(Start: 57 @21628 has 97 MA's), (Start: 59 @21631 has 52 MA's), (Start: 97 @21757 has 1 MA's), (107, 21799), (111, 21811), (112, 21814), (127, 21847), (131, 21859), (146, 21907), (150, 21925), (166, 21961), (170, 21976), (194, 22027), (205, 22057), (217, 22099), (231, 22123), (272, 22159), (275, 22165), (287, 22192), (292, 22210), (314, 22303), (315, 22306), (333, 22390), (364, 22528), (370, 22546), (393, 22630),

Gene: Arbiter_33 Start: 32772, Stop: 33935, Start Num: 56

Candidate Starts for Arbiter_33:

(31, 32625), (Start: 51 @32766 has 10 MA's), (Start: 56 @32772 has 79 MA's), (72, 32811), (77, 32841), (91, 32886), (102, 32931), (139, 33030), (160, 33090), (170, 33126), (180, 33150), (200, 33195), (203, 33201), (220, 33252), (241, 33291), (247, 33294), (256, 33306), (270, 33321), (280, 33345), (294, 33378), (312, 33459), (334, 33552), (342, 33588), (345, 33597), (348, 33603), (361, 33663), (402, 33828),

Gene: Ares_33 Start: 32688, Stop: 33896, Start Num: 52

Candidate Starts for Ares_33:

(32, 32547), (Start: 52 @32688 has 2 MA's), (Start: 54 @32691 has 7 MA's), (78, 32760), (99, 32829), (105, 32859), (109, 32871), (111, 32877), (112, 32880), (115, 32889), (132, 32928), (135, 32937), (140, 32949), (158, 33006), (166, 33027), (170, 33042), (195, 33087), (198, 33102), (212, 33147), (243, 33216), (254, 33243), (263, 33267), (282, 33312), (292, 33333), (297, 33357), (314, 33432), (319, 33462), (334, 33522), (336, 33534), (340, 33552), (363, 33654), (393, 33759), (395, 33765), (397, 33783), (404, 33834), (409, 33870),

Gene: Argie_26 Start: 29663, Stop: 30871, Start Num: 57

Candidate Starts for Argie_26:

(Start: 52 @29657 has 2 MA's), (Start: 57 @29663 has 97 MA's), (72, 29702), (91, 29777), (93, 29780), (101, 29813), (105, 29834), (111, 29852), (113, 29858), (115, 29864), (132, 29903), (133, 29906), (135, 29912), (158, 29981), (166, 30002), (198, 30077), (212, 30122), (224, 30152), (245, 30197), (249, 30206), (252, 30212), (254, 30218), (263, 30242), (282, 30287), (292, 30308), (297, 30332), (314, 30407), (319, 30437), (334, 30497), (336, 30509), (340, 30527), (363, 30629), (395, 30740), (397, 30758), (404, 30809), (409, 30845),

Gene: Arissanae_32 Start: 24817, Stop: 26022, Start Num: 58

Candidate Starts for Arissanae_32:

(Start: 58 @24817 has 2 MA's), (109, 24994), (111, 25000), (112, 25003), (133, 25054), (191, 25210), (208, 25258), (313, 25552), (318, 25585), (348, 25696), (385, 25852),

Gene: Ashraf_32 Start: 31924, Stop: 33084, Start Num: 56

Candidate Starts for Ashraf_32:

(Start: 56 @31924 has 79 MA's), (91, 32035), (102, 32080), (139, 32179), (160, 32239), (170, 32275), (180, 32299), (200, 32344), (203, 32350), (220, 32401), (241, 32440), (247, 32443), (256, 32455), (270, 32470), (280, 32494), (294, 32527), (312, 32608), (323, 32653), (334, 32701), (342, 32737), (345, 32746), (348, 32752), (402, 32977),

Gene: Athena_34 Start: 32970, Stop: 34172, Start Num: 57

Candidate Starts for Athena_34:

(Start: 57 @32970 has 97 MA's), (72, 33003), (109, 33147), (112, 33156), (115, 33165), (132, 33204), (135, 33213), (142, 33231), (158, 33282), (162, 33291), (166, 33303), (168, 33309), (170, 33318), (195, 33363), (198, 33378), (212, 33423), (228, 33462), (243, 33492), (249, 33507), (254, 33519), (263, 33543), (282, 33588), (292, 33609), (297, 33633), (314, 33708), (319, 33738), (334, 33798), (336, 33810), (340, 33828), (363, 33930), (393, 34035), (395, 34041), (397, 34059), (409, 34146),

Gene: Audrey_33 Start: 32219, Stop: 33421, Start Num: 57

Candidate Starts for Audrey_33:

(Start: 57 @32219 has 97 MA's), (72, 32252), (109, 32396), (112, 32405), (115, 32414), (132, 32453), (135, 32462), (142, 32480), (146, 32498), (150, 32516), (153, 32522), (160, 32534), (166, 32552), (170, 32567), (190, 32600), (198, 32627), (212, 32672), (247, 32753), (261, 32780), (265, 32798), (275, 32816), (292, 32858), (297, 32882), (314, 32957), (319, 32987), (334, 33047), (336, 33059), (340, 33077), (363, 33179), (393, 33284), (395, 33290), (397, 33308), (409, 33395),

Gene: AuntGwenStacy_28 Start: 26025, Stop: 27062, Start Num: 81

Candidate Starts for AuntGwenStacy_28:

(Start: 81 @26025 has 3 MA's), (118, 26148), (138, 26202), (150, 26238), (182, 26301), (205, 26349), (251, 26403), (252, 26406), (312, 26592), (320, 26628), (330, 26670), (334, 26688), (348, 26739),

Gene: Austelle_31 Start: 33241, Stop: 34398, Start Num: 57

Candidate Starts for Austelle_31:

(Start: 57 @33241 has 97 MA's), (Start: 88 @33334 has 6 MA's), (91, 33349), (96, 33364), (99, 33376), (102, 33394), (116, 33436), (135, 33484), (148, 33535), (153, 33544), (162, 33562), (170, 33589), (184, 33604), (190, 33610), (193, 33616), (195, 33622), (204, 33649), (206, 33658), (216, 33691), (244, 33724), (269, 33784), (280, 33814), (292, 33820), (306, 33865), (313, 33919), (314, 33922), (348, 34066), (384, 34219),

Gene: AvadaKedavra_21 Start: 21698, Stop: 22870, Start Num: 59

Candidate Starts for AvadaKedavra_21:

(Start: 57 @21695 has 97 MA's), (Start: 59 @21698 has 52 MA's), (Start: 97 @21824 has 1 MA's), (107, 21866), (111, 21878), (112, 21881), (127, 21914), (131, 21926), (146, 21974), (150, 21992), (166, 22028), (170, 22043), (194, 22094), (205, 22124), (217, 22166), (231, 22190), (272, 22226), (275, 22232), (287, 22259), (292, 22277), (314, 22370), (315, 22373), (333, 22457), (364, 22595), (370, 22613), (393, 22697),

Gene: Aziz_35 Start: 27886, Stop: 28968, Start Num: 88

Candidate Starts for Aziz_35:

(Start: 81 @27865 has 3 MA's), (87, 27880), (Start: 88 @27886 has 6 MA's), (105, 27961), (122, 28006), (124, 28012), (126, 28018), (132, 28036), (135, 28045), (148, 28096), (156, 28111), (167, 28135), (173, 28156), (200, 28210), (203, 28216), (222, 28270), (300, 28426), (395, 28837),

Gene: BabeRuth_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for BabeRuth_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234),

(182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Badfish_33 Start: 32386, Stop: 33546, Start Num: 56

Candidate Starts for Badfish_33:

(Start: 56 @32386 has 79 MA's), (91, 32497), (102, 32542), (139, 32641), (160, 32701), (170, 32737), (180, 32761), (200, 32806), (203, 32812), (220, 32863), (241, 32902), (247, 32905), (256, 32917), (270, 32932), (280, 32956), (294, 32989), (312, 33070), (323, 33115), (334, 33163), (342, 33199), (345, 33208), (348, 33214), (402, 33439),

Gene: Bae_31 Start: 32397, Stop: 33902, Start Num: 21

Candidate Starts for Bae_31:

(Start: 21 @32397 has 10 MA's), (22, 32415), (25, 32436), (30, 32490), (33, 32508), (42, 32586), (44, 32601), (127, 32901), (136, 32928), (144, 32955), (168, 33021), (174, 33042), (178, 33057), (195, 33096), (224, 33186), (239, 33213), (252, 33246), (292, 33342), (298, 33369), (308, 33408), (314, 33444), (340, 33567), (366, 33672), (395, 33768), (397, 33786), (412, 33888),

Gene: Baloo_33 Start: 32222, Stop: 33424, Start Num: 57

Candidate Starts for Baloo_33:

(Start: 57 @32222 has 97 MA's), (72, 32255), (109, 32399), (112, 32408), (115, 32417), (132, 32456), (135, 32465), (142, 32483), (158, 32534), (162, 32543), (166, 32555), (168, 32561), (170, 32570), (195, 32615), (198, 32630), (212, 32675), (228, 32714), (243, 32744), (249, 32759), (254, 32771), (263, 32795), (282, 32840), (292, 32861), (297, 32885), (314, 32960), (319, 32990), (334, 33050), (336, 33062), (340, 33080), (363, 33182), (393, 33287), (395, 33293), (397, 33311), (409, 33398),

Gene: Bananafish_33 Start: 32686, Stop: 33855, Start Num: 51

Candidate Starts for Bananafish_33:

(31, 32545), (Start: 51 @32686 has 10 MA's), (Start: 56 @32692 has 79 MA's), (72, 32731), (77, 32761), (91, 32806), (102, 32851), (139, 32950), (160, 33010), (170, 33046), (180, 33070), (200, 33115), (203, 33121), (220, 33172), (241, 33211), (247, 33214), (256, 33226), (270, 33241), (280, 33265), (294, 33298), (312, 33379), (334, 33472), (342, 33508), (345, 33517), (348, 33523), (402, 33748),

Gene: Bellis_22 Start: 22249, Stop: 23466, Start Num: 59

Candidate Starts for Bellis_22:

(Start: 59 @22249 has 52 MA's), (90, 22351), (95, 22363), (99, 22381), (101, 22390), (111, 22429), (127, 22465), (132, 22480), (134, 22486), (143, 22516), (144, 22519), (157, 22555), (163, 22567), (182, 22618), (184, 22621), (206, 22681), (215, 22708), (222, 22723), (225, 22729), (230, 22741), (259, 22801), (265, 22825), (292, 22885), (313, 22981), (318, 23014), (337, 23086), (342, 23110), (348, 23125), (398, 23338), (399, 23350),

Gene: Ben11_32 Start: 32041, Stop: 33243, Start Num: 57

Candidate Starts for Ben11_32:

(Start: 57 @32041 has 97 MA's), (72, 32074), (109, 32218), (112, 32227), (115, 32236), (132, 32275), (135, 32284), (142, 32302), (146, 32320), (150, 32338), (153, 32344), (160, 32356), (166, 32374), (170, 32389), (190, 32422), (198, 32449), (212, 32494), (247, 32575), (261, 32602), (265, 32620), (275, 32638), (292, 32680), (297, 32704), (314, 32779), (319, 32809), (334, 32869), (336, 32881), (340, 32899), (362, 32998), (363, 33001), (393, 33106), (395, 33112), (397, 33130), (409, 33217),

Gene: Bernardo_33 Start: 32309, Stop: 33511, Start Num: 57

Candidate Starts for Bernardo_33:

(Start: 57 @32309 has 97 MA's), (72, 32342), (109, 32486), (112, 32495), (115, 32504), (132, 32543), (135, 32552), (142, 32570), (158, 32621), (162, 32630), (166, 32642), (170, 32657), (195, 32702),

(198, 32717), (212, 32762), (243, 32831), (249, 32846), (254, 32858), (263, 32882), (284, 32930), (289, 32936), (291, 32942), (292, 32948), (297, 32972), (314, 33047), (319, 33077), (334, 33137), (336, 33149), (340, 33167), (363, 33269), (393, 33374), (395, 33380), (404, 33449),

Gene: BigPhil_20 Start: 20087, Stop: 21244, Start Num: 62

Candidate Starts for BigPhil_20:

(Start: 62 @20087 has 3 MA's), (Start: 66 @20090 has 20 MA's), (Start: 97 @20219 has 1 MA's), (104, 20249), (113, 20279), (119, 20288), (125, 20303), (133, 20327), (142, 20351), (144, 20363), (170, 20438), (173, 20447), (182, 20471), (194, 20501), (252, 20585), (253, 20588), (263, 20609), (332, 20858), (334, 20867), (340, 20897), (348, 20918), (359, 20987), (410, 21221),

Gene: Blocker23_33 Start: 32804, Stop: 33973, Start Num: 51

Candidate Starts for Blocker23_33:

(31, 32663), (Start: 51 @32804 has 10 MA's), (Start: 56 @32810 has 79 MA's), (72, 32849), (77, 32879), (91, 32924), (102, 32969), (139, 33068), (160, 33128), (170, 33164), (180, 33188), (200, 33233), (203, 33239), (220, 33290), (241, 33329), (247, 33332), (256, 33344), (270, 33359), (280, 33383), (294, 33416), (312, 33497), (334, 33590), (342, 33626), (345, 33635), (348, 33641), (402, 33866),

Gene: BloominB_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for BloominB_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: BobbyK_30 Start: 32610, Stop: 33767, Start Num: 57

Candidate Starts for BobbyK_30:

(Start: 57 @32610 has 97 MA's), (Start: 88 @32703 has 6 MA's), (91, 32718), (96, 32733), (99, 32745), (102, 32763), (148, 32904), (153, 32913), (162, 32931), (170, 32958), (184, 32973), (190, 32979), (193, 32985), (195, 32991), (204, 33018), (206, 33027), (216, 33060), (244, 33093), (269, 33153), (280, 33183), (292, 33189), (306, 33234), (313, 33288), (314, 33291), (348, 33435), (384, 33588),

Gene: Boehler_33 Start: 32374, Stop: 33534, Start Num: 56

Candidate Starts for Boehler_33:

(Start: 56 @32374 has 79 MA's), (91, 32485), (102, 32530), (139, 32629), (160, 32689), (170, 32725), (180, 32749), (200, 32794), (203, 32800), (220, 32851), (241, 32890), (247, 32893), (256, 32905), (270, 32920), (280, 32944), (294, 32977), (312, 33058), (323, 33103), (334, 33151), (342, 33187), (345, 33196), (348, 33202), (402, 33427),

Gene: BourbonZero_21 Start: 22227, Stop: 23426, Start Num: 59

Candidate Starts for BourbonZero_21:

(Start: 59 @22227 has 52 MA's), (90, 22329), (99, 22359), (101, 22368), (111, 22407), (117, 22419), (132, 22458), (143, 22494), (146, 22503), (161, 22539), (175, 22587), (230, 22719), (233, 22725), (281, 22839), (292, 22863), (312, 22956), (318, 22992), (333, 23046), (337, 23064), (385, 23256), (405, 23364),

Gene: Boyle_33 Start: 32811, Stop: 33974, Start Num: 56

Candidate Starts for Boyle_33:

(31, 32664), (Start: 51 @32805 has 10 MA's), (Start: 56 @32811 has 79 MA's), (72, 32850), (77, 32880), (91, 32925), (102, 32970), (139, 33069), (160, 33129), (170, 33165), (180, 33189), (200,

33234), (203, 33240), (220, 33291), (241, 33330), (247, 33333), (256, 33345), (270, 33360), (280, 33384), (294, 33417), (312, 33498), (323, 33543), (334, 33591), (342, 33627), (345, 33636), (348, 33642), (361, 33702), (402, 33867),

Gene: BrainDrainer_22 Start: 21566, Stop: 22720, Start Num: 59

Candidate Starts for BrainDrainer_22:

(Start: 59 @21566 has 52 MA's), (90, 21668), (95, 21680), (112, 21749), (146, 21842), (166, 21896), (175, 21926), (182, 21935), (197, 21974), (214, 22022), (225, 22046), (230, 22058), (265, 22082), (301, 22172), (329, 22289), (332, 22325), (334, 22334), (349, 22391), (354, 22430),

Gene: Brocalys_20 Start: 19901, Stop: 21058, Start Num: 64

Candidate Starts for Brocalys_20:

(Start: 64 @19901 has 2 MA's), (91, 20009), (Start: 97 @20030 has 1 MA's), (113, 20090), (125, 20114), (127, 20120), (133, 20138), (137, 20150), (142, 20162), (144, 20174), (166, 20234), (170, 20249), (173, 20258), (182, 20282), (194, 20312), (252, 20396), (253, 20399), (263, 20420), (273, 20441), (278, 20450), (280, 20462), (287, 20471), (348, 20732), (359, 20801), (410, 21035),

Gene: BrownCNA_31 Start: 32871, Stop: 34028, Start Num: 57

Candidate Starts for BrownCNA_31:

(Start: 57 @32871 has 97 MA's), (Start: 88 @32964 has 6 MA's), (91, 32979), (96, 32994), (99, 33006), (102, 33024), (116, 33066), (148, 33165), (153, 33174), (162, 33192), (170, 33219), (184, 33234), (190, 33240), (193, 33246), (195, 33252), (204, 33279), (206, 33288), (216, 33321), (244, 33354), (265, 33408), (269, 33414), (280, 33444), (292, 33450), (296, 33471), (306, 33495), (313, 33549), (314, 33552), (348, 33696),

Gene: Brownie5_33 Start: 32811, Stop: 33980, Start Num: 51

Candidate Starts for Brownie5_33:

(31, 32670), (Start: 51 @32811 has 10 MA's), (Start: 56 @32817 has 79 MA's), (72, 32856), (77, 32886), (91, 32931), (102, 32976), (139, 33075), (160, 33135), (170, 33171), (180, 33195), (200, 33240), (203, 33246), (220, 33297), (241, 33336), (247, 33339), (256, 33351), (270, 33366), (280, 33390), (294, 33423), (312, 33504), (334, 33597), (342, 33633), (345, 33642), (348, 33648), (361, 33708), (402, 33873),

Gene: CRB2_34 Start: 34225, Stop: 35433, Start Num: 55

Candidate Starts for CRB2_34:

(26, 34009), (47, 34192), (Start: 55 @34225 has 9 MA's), (102, 34387), (113, 34423), (132, 34471), (146, 34516), (168, 34576), (173, 34594), (203, 34660), (208, 34678), (214, 34696), (219, 34711), (221, 34714), (233, 34738), (315, 34933), (335, 35023), (340, 35068), (346, 35083), (361, 35170), (365, 35185), (381, 35236), (389, 35269), (411, 35416),

Gene: Calamitous_33 Start: 32697, Stop: 33860, Start Num: 56

Candidate Starts for Calamitous_33:

(31, 32550), (Start: 51 @32691 has 10 MA's), (Start: 56 @32697 has 79 MA's), (72, 32736), (77, 32766), (91, 32811), (102, 32856), (139, 32955), (160, 33015), (170, 33051), (180, 33075), (200, 33120), (203, 33126), (220, 33177), (241, 33216), (247, 33219), (256, 33231), (270, 33246), (280, 33270), (294, 33303), (312, 33384), (334, 33477), (342, 33513), (345, 33522), (348, 33528), (402, 33753),

Gene: Calm_21 Start: 21702, Stop: 22874, Start Num: 59

Candidate Starts for Calm_21:

(Start: 57 @21699 has 97 MA's), (Start: 59 @21702 has 52 MA's), (Start: 97 @21828 has 1 MA's), (107, 21870), (111, 21882), (112, 21885), (127, 21918), (131, 21930), (134, 21939), (146, 21978), (150, 21996), (166, 22032), (170, 22047), (194, 22098), (205, 22128), (217, 22170), (231, 22194),

(272, 22230), (275, 22236), (287, 22263), (292, 22281), (314, 22374), (315, 22377), (333, 22461), (364, 22599), (370, 22617), (393, 22701),

Gene: Casbah_32 Start: 32071, Stop: 33273, Start Num: 57

Candidate Starts for Casbah_32:

(Start: 57 @32071 has 97 MA's), (72, 32104), (109, 32248), (112, 32257), (115, 32266), (132, 32305), (135, 32314), (142, 32332), (146, 32350), (150, 32368), (153, 32374), (160, 32386), (166, 32404), (170, 32419), (190, 32452), (198, 32479), (212, 32524), (247, 32605), (261, 32632), (265, 32650), (275, 32668), (292, 32710), (297, 32734), (314, 32809), (319, 32839), (334, 32899), (336, 32911), (340, 32929), (362, 33028), (363, 33031), (393, 33136), (395, 33142), (397, 33160), (409, 33247),

Gene: Cepens_25 Start: 29381, Stop: 30586, Start Num: 54

Candidate Starts for Cepens_25:

(Start: 52 @29378 has 2 MA's), (Start: 54 @29381 has 7 MA's), (78, 29450), (99, 29519), (105, 29549), (109, 29561), (111, 29567), (112, 29570), (115, 29579), (132, 29618), (135, 29627), (140, 29639), (158, 29696), (162, 29705), (166, 29717), (170, 29732), (195, 29777), (198, 29792), (212, 29837), (243, 29906), (254, 29933), (263, 29957), (282, 30002), (292, 30023), (297, 30047), (314, 30122), (319, 30152), (334, 30212), (336, 30224), (340, 30242), (363, 30344), (395, 30455), (397, 30473), (404, 30524), (409, 30560),

Gene: Cerasum_20 Start: 20087, Stop: 21244, Start Num: 62

Candidate Starts for Cerasum_20:

(Start: 62 @20087 has 3 MA's), (Start: 66 @20090 has 20 MA's), (Start: 97 @20219 has 1 MA's), (104, 20249), (113, 20279), (119, 20288), (125, 20303), (133, 20327), (142, 20351), (144, 20363), (170, 20438), (173, 20447), (182, 20471), (194, 20501), (252, 20585), (253, 20588), (263, 20609), (332, 20858), (334, 20867), (340, 20897), (348, 20918), (359, 20987), (410, 21221),

Gene: ChaChing_33 Start: 32234, Stop: 33436, Start Num: 57

Candidate Starts for ChaChing_33:

(Start: 57 @32234 has 97 MA's), (72, 32267), (109, 32411), (112, 32420), (115, 32429), (132, 32468), (135, 32477), (142, 32495), (146, 32513), (150, 32531), (153, 32537), (160, 32549), (166, 32567), (170, 32582), (190, 32615), (198, 32642), (212, 32687), (247, 32768), (261, 32795), (265, 32813), (275, 32831), (292, 32873), (297, 32897), (314, 32972), (319, 33002), (334, 33062), (336, 33074), (340, 33092), (363, 33194), (393, 33299), (395, 33305), (397, 33323), (409, 33410),

Gene: Chalmers_33 Start: 33026, Stop: 34228, Start Num: 57

Candidate Starts for Chalmers_33:

(Start: 57 @33026 has 97 MA's), (72, 33059), (109, 33203), (112, 33212), (115, 33221), (132, 33260), (135, 33269), (142, 33287), (146, 33305), (150, 33323), (153, 33329), (160, 33341), (166, 33359), (170, 33374), (190, 33407), (198, 33434), (212, 33479), (247, 33560), (261, 33587), (265, 33605), (275, 33623), (292, 33665), (297, 33689), (314, 33764), (319, 33794), (334, 33854), (336, 33866), (340, 33884), (363, 33986), (393, 34091), (395, 34097), (397, 34115), (409, 34202),

Gene: Chandler_33 Start: 33002, Stop: 34204, Start Num: 57

Candidate Starts for Chandler_33:

(Start: 57 @33002 has 97 MA's), (72, 33035), (109, 33179), (112, 33188), (115, 33197), (132, 33236), (135, 33245), (142, 33263), (146, 33281), (150, 33299), (153, 33305), (160, 33317), (166, 33335), (170, 33350), (190, 33383), (198, 33410), (212, 33455), (247, 33536), (261, 33563), (265, 33581), (275, 33599), (292, 33641), (297, 33665), (314, 33740), (319, 33770), (334, 33830), (336, 33842), (340, 33860), (363, 33962), (393, 34067), (395, 34073), (397, 34091), (409, 34178),

Gene: CharlieGBrown_32 Start: 31944, Stop: 33104, Start Num: 56

Candidate Starts for CharlieGBrown_32:

(Start: 56 @31944 has 79 MA's), (91, 32055), (102, 32100), (139, 32199), (160, 32259), (170, 32295), (180, 32319), (200, 32364), (203, 32370), (220, 32421), (241, 32460), (247, 32463), (256, 32475), (270, 32490), (280, 32514), (294, 32547), (312, 32628), (323, 32673), (334, 32721), (342, 32757), (345, 32766), (348, 32772), (402, 32997),

Gene: Chentzyk_32 Start: 32092, Stop: 33294, Start Num: 57

Candidate Starts for Chentzyk_32:

(Start: 57 @32092 has 97 MA's), (72, 32125), (109, 32269), (112, 32278), (115, 32287), (132, 32326), (135, 32335), (142, 32353), (146, 32371), (150, 32389), (153, 32395), (160, 32407), (166, 32425), (170, 32440), (190, 32473), (198, 32500), (212, 32545), (247, 32626), (261, 32653), (265, 32671), (275, 32689), (292, 32731), (297, 32755), (314, 32830), (319, 32860), (334, 32920), (336, 32932), (340, 32950), (363, 33052), (393, 33157), (395, 33163), (397, 33181), (409, 33268),

Gene: CherryTomatoes_125 Start: 82351, Stop: 83241, Start Num: 123

Candidate Starts for CherryTomatoes_125:

(Start: 123 @82351 has 3 MA's), (393, 83086),

Gene: Childish_32 Start: 32094, Stop: 33254, Start Num: 56

Candidate Starts for Childish_32:

(Start: 56 @32094 has 79 MA's), (91, 32205), (102, 32250), (139, 32349), (160, 32409), (170, 32445), (180, 32469), (200, 32514), (203, 32520), (220, 32571), (241, 32610), (247, 32613), (256, 32625), (270, 32640), (280, 32664), (294, 32697), (312, 32778), (323, 32823), (334, 32871), (342, 32907), (345, 32916), (348, 32922), (402, 33147),

Gene: ChipMunk_34 Start: 25662, Stop: 26558, Start Num: 59

Candidate Starts for ChipMunk_34:

(Start: 59 @25662 has 52 MA's), (132, 25893), (150, 25956), (153, 25962), (184, 26034), (207, 26088), (334, 26424),

Gene: Chipette_34 Start: 32584, Stop: 33744, Start Num: 56

Candidate Starts for Chipette_34:

(Start: 56 @32584 has 79 MA's), (91, 32695), (102, 32740), (139, 32839), (160, 32899), (170, 32935), (180, 32959), (200, 33004), (203, 33010), (220, 33061), (241, 33100), (247, 33103), (256, 33115), (270, 33130), (280, 33154), (294, 33187), (312, 33268), (323, 33313), (334, 33361), (342, 33397), (345, 33406), (348, 33412), (402, 33637),

Gene: ChrisnMich_29 Start: 31570, Stop: 32727, Start Num: 57

Candidate Starts for ChrisnMich_29:

(Start: 57 @31570 has 97 MA's), (Start: 88 @31663 has 6 MA's), (91, 31678), (96, 31693), (99, 31705), (102, 31723), (135, 31813), (148, 31864), (153, 31873), (157, 31879), (162, 31891), (170, 31918), (184, 31933), (190, 31939), (193, 31945), (204, 31978), (206, 31987), (216, 32020), (244, 32053), (280, 32143), (292, 32149), (313, 32248), (314, 32251), (348, 32395), (384, 32548),

Gene: Chuni_32 Start: 32385, Stop: 33545, Start Num: 56

Candidate Starts for Chuni_32:

(Start: 56 @32385 has 79 MA's), (91, 32496), (102, 32541), (139, 32640), (160, 32700), (170, 32736), (180, 32760), (200, 32805), (203, 32811), (220, 32862), (241, 32901), (247, 32904), (256, 32916), (270, 32931), (280, 32955), (294, 32988), (312, 33069), (323, 33114), (334, 33162), (342, 33198), (345, 33207), (348, 33213), (402, 33438),

Gene: CicholasNage_21 Start: 21687, Stop: 22862, Start Num: 57

Candidate Starts for CicholasNage_21:

(Start: 57 @21687 has 97 MA's), (Start: 59 @21690 has 52 MA's), (Start: 97 @21816 has 1 MA's), (107, 21858), (111, 21870), (112, 21873), (127, 21906), (131, 21918), (146, 21966), (150, 21984), (166, 22020), (170, 22035), (194, 22086), (205, 22116), (217, 22158), (231, 22182), (272, 22218), (275, 22224), (287, 22251), (292, 22269), (314, 22362), (315, 22365), (333, 22449), (364, 22587), (370, 22605), (393, 22689),

Gene: Clautastrophe_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for Clautastrophe_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565), (182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: Clifton_19 Start: 20217, Stop: 21371, Start Num: 66

Candidate Starts for Clifton_19:

(Start: 62 @20214 has 3 MA's), (Start: 66 @20217 has 20 MA's), (84, 20298), (Start: 97 @20346 has 1 MA's), (113, 20406), (119, 20415), (125, 20430), (133, 20454), (142, 20478), (144, 20490), (170, 20565), (173, 20574), (182, 20598), (194, 20628), (252, 20712), (253, 20715), (263, 20736), (312, 20895), (332, 20985), (334, 20994), (340, 21024), (348, 21045), (410, 21348),

Gene: Cobra_33 Start: 32375, Stop: 33535, Start Num: 56

Candidate Starts for Cobra_33:

(Start: 56 @32375 has 79 MA's), (91, 32486), (102, 32531), (139, 32630), (160, 32690), (170, 32726), (180, 32750), (200, 32795), (203, 32801), (220, 32852), (241, 32891), (247, 32894), (256, 32906), (270, 32921), (280, 32945), (294, 32978), (312, 33059), (323, 33104), (334, 33152), (342, 33188), (345, 33197), (348, 33203), (402, 33428),

Gene: Coffee_33 Start: 32800, Stop: 33963, Start Num: 56

Candidate Starts for Coffee_33:

(31, 32653), (Start: 51 @32794 has 10 MA's), (Start: 56 @32800 has 79 MA's), (72, 32839), (77, 32869), (91, 32914), (102, 32959), (139, 33058), (160, 33118), (170, 33154), (180, 33178), (200, 33223), (203, 33229), (220, 33280), (241, 33319), (247, 33322), (256, 33334), (270, 33349), (280, 33373), (294, 33406), (312, 33487), (334, 33580), (342, 33616), (345, 33625), (348, 33631), (402, 33856),

Gene: Compostia_34 Start: 32649, Stop: 33851, Start Num: 57

Candidate Starts for Compostia_34:

(Start: 57 @32649 has 97 MA's), (109, 32826), (112, 32835), (115, 32844), (132, 32883), (135, 32892), (142, 32910), (146, 32928), (150, 32946), (153, 32952), (160, 32964), (166, 32982), (170, 32997), (190, 33030), (198, 33057), (212, 33102), (247, 33183), (261, 33210), (265, 33228), (275, 33246), (292, 33288), (319, 33417), (340, 33507), (363, 33609), (383, 33675), (393, 33714), (403, 33786), (410, 33828),

Gene: Cooper_30 Start: 31786, Stop: 32946, Start Num: 57

Candidate Starts for Cooper_30:

(Start: 57 @31786 has 97 MA's), (91, 31894), (96, 31909), (99, 31921), (101, 31930), (102, 31939), (109, 31963), (116, 31981), (148, 32080), (153, 32089), (157, 32095), (162, 32107), (170, 32134), (184, 32149), (190, 32155), (193, 32161), (194, 32164), (198, 32182), (204, 32197), (216, 32239), (244, 32272), (261, 32308), (269, 32332), (280, 32362), (292, 32368), (308, 32434), (313, 32467), (314, 32470), (348, 32614), (393, 32803),

Gene: Cornbread_32 Start: 32091, Stop: 33251, Start Num: 56

Candidate Starts for Cornbread_32:

(Start: 56 @32091 has 79 MA's), (91, 32202), (102, 32247), (139, 32346), (160, 32406), (170, 32442), (180, 32466), (200, 32511), (203, 32517), (220, 32568), (241, 32607), (247, 32610), (256, 32622), (270, 32637), (280, 32661), (294, 32694), (312, 32775), (323, 32820), (334, 32868), (342, 32904), (345, 32913), (348, 32919), (402, 33144),

Gene: Cosmolli16_32 Start: 32088, Stop: 33239, Start Num: 56

Candidate Starts for Cosmolli16_32:

(Start: 56 @32088 has 79 MA's), (91, 32199), (102, 32244), (139, 32343), (160, 32403), (170, 32439), (180, 32463), (200, 32508), (203, 32514), (220, 32565), (232, 32589), (241, 32604), (247, 32607), (256, 32619), (270, 32634), (280, 32658), (294, 32691), (312, 32772), (323, 32817), (334, 32865), (342, 32901), (345, 32910), (348, 32916), (402, 33141),

Gene: Craff_33 Start: 32372, Stop: 33532, Start Num: 56

Candidate Starts for Craff_33:

(Start: 56 @32372 has 79 MA's), (91, 32483), (102, 32528), (139, 32627), (160, 32687), (170, 32723), (180, 32747), (200, 32792), (203, 32798), (220, 32849), (241, 32888), (247, 32891), (256, 32903), (270, 32918), (280, 32942), (294, 32975), (312, 33056), (323, 33101), (334, 33149), (342, 33185), (345, 33194), (348, 33200), (402, 33425),

Gene: Crumble_19 Start: 20264, Stop: 21418, Start Num: 66

Candidate Starts for Crumble_19:

(Start: 62 @20261 has 3 MA's), (Start: 66 @20264 has 20 MA's), (84, 20345), (Start: 97 @20393 has 1 MA's), (113, 20453), (119, 20462), (125, 20477), (133, 20501), (142, 20525), (144, 20537), (170, 20612), (173, 20621), (182, 20645), (194, 20675), (252, 20759), (253, 20762), (263, 20783), (312, 20942), (332, 21032), (334, 21041), (340, 21071), (348, 21092), (410, 21395),

Gene: D12_25 Start: 29948, Stop: 31156, Start Num: 57

Candidate Starts for D12_25:

(Start: 52 @29942 has 2 MA's), (Start: 57 @29948 has 97 MA's), (72, 29987), (91, 30062), (93, 30065), (101, 30098), (105, 30119), (109, 30131), (111, 30137), (115, 30149), (132, 30188), (133, 30191), (158, 30266), (166, 30287), (198, 30362), (212, 30407), (224, 30437), (245, 30482), (249, 30491), (252, 30497), (254, 30503), (263, 30527), (282, 30572), (292, 30593), (297, 30617), (314, 30692), (319, 30722), (334, 30782), (336, 30794), (340, 30812), (362, 30911), (363, 30914), (393, 31019), (395, 31025), (403, 31091), (404, 31094), (409, 31130),

Gene: Daegal_28 Start: 23665, Stop: 24903, Start Num: 57

Candidate Starts for Daegal_28:

(9, 23053), (11, 23119), (16, 23209), (17, 23212), (20, 23362), (23, 23449), (24, 23452), (41, 23590), (Start: 57 @23665 has 97 MA's), (86, 23761), (93, 23788), (95, 23794), (103, 23833), (105, 23842), (Start: 123 @23887 has 3 MA's), (128, 23899), (141, 23938), (161, 23995), (177, 24061), (193, 24100), (205, 24133), (211, 24154), (213, 24160), (228, 24196), (235, 24208), (237, 24211), (258, 24259), (265, 24265), (267, 24268), (272, 24277), (312, 24415), (334, 24508), (349, 24565), (350, 24571), (367, 24655), (371, 24670), (372, 24673), (391, 24739), (396, 24772),

Gene: Daisy_33 Start: 32246, Stop: 33448, Start Num: 57

Candidate Starts for Daisy_33:

(Start: 57 @32246 has 97 MA's), (72, 32279), (109, 32423), (112, 32432), (115, 32441), (132, 32480), (135, 32489), (142, 32507), (146, 32525), (150, 32543), (153, 32549), (160, 32561), (166, 32579), (170, 32594), (190, 32627), (198, 32654), (212, 32699), (247, 32780), (261, 32807), (265, 32825), (275, 32843), (292, 32885), (297, 32909), (314, 32984), (319, 33014), (334, 33074), (336, 33086), (340, 33104), (363, 33206), (393, 33311), (395, 33317), (397, 33335), (409, 33422),

Gene: Deenasa_33 Start: 32985, Stop: 34187, Start Num: 57

Candidate Starts for Deenasa_33:

(Start: 57 @32985 has 97 MA's), (72, 33018), (109, 33162), (112, 33171), (115, 33180), (132, 33219), (135, 33228), (142, 33246), (146, 33264), (150, 33282), (153, 33288), (160, 33300), (166, 33318), (170, 33333), (190, 33366), (198, 33393), (212, 33438), (247, 33519), (261, 33546), (265, 33564), (275, 33582), (292, 33624), (297, 33648), (314, 33723), (319, 33753), (334, 33813), (336, 33825), (340, 33843), (363, 33945), (393, 34050), (395, 34056), (397, 34074), (409, 34161),

Gene: DeepSoil15_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for DeepSoil15_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Derpp_32 Start: 31933, Stop: 33093, Start Num: 56

Candidate Starts for Derpp_32:

(Start: 56 @31933 has 79 MA's), (91, 32044), (102, 32089), (139, 32188), (160, 32248), (170, 32284), (180, 32308), (200, 32353), (203, 32359), (220, 32410), (241, 32449), (247, 32452), (256, 32464), (270, 32479), (280, 32503), (294, 32536), (312, 32617), (323, 32662), (334, 32710), (342, 32746), (345, 32755), (348, 32761), (402, 32986),

Gene: Devonte_33 Start: 32210, Stop: 33412, Start Num: 57

Candidate Starts for Devonte_33:

(Start: 57 @32210 has 97 MA's), (72, 32243), (109, 32387), (112, 32396), (115, 32405), (132, 32444), (135, 32453), (142, 32471), (146, 32489), (150, 32507), (153, 32513), (160, 32525), (166, 32543), (170, 32558), (190, 32591), (198, 32618), (212, 32663), (247, 32744), (261, 32771), (265, 32789), (275, 32807), (292, 32849), (297, 32873), (314, 32948), (319, 32978), (334, 33038), (336, 33050), (340, 33068), (363, 33170), (393, 33275), (395, 33281), (397, 33299), (409, 33386),

Gene: Dewey_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Dewey_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: DigitDog_32 Start: 32179, Stop: 33684, Start Num: 21

Candidate Starts for DigitDog_32:

(Start: 21 @32179 has 10 MA's), (25, 32218), (33, 32290), (35, 32317), (42, 32368), (44, 32383), (110, 32635), (121, 32665), (127, 32683), (136, 32710), (144, 32737), (178, 32839), (195, 32878), (198, 32893), (224, 32968), (245, 33013), (247, 33019), (252, 33028), (292, 33124), (308, 33190), (314, 33226), (362, 33439), (395, 33550), (412, 33670),

Gene: DirkDirk_21 Start: 21671, Stop: 22843, Start Num: 59

Candidate Starts for DirkDirk_21:

(Start: 57 @21668 has 97 MA's), (Start: 59 @21671 has 52 MA's), (Start: 97 @21797 has 1 MA's), (107, 21839), (111, 21851), (112, 21854), (127, 21887), (131, 21899), (146, 21947), (150, 21965), (166, 22001), (170, 22016), (194, 22067), (205, 22097), (217, 22139), (231, 22163), (272, 22199),

(275, 22205), (287, 22232), (292, 22250), (314, 22343), (315, 22346), (333, 22430), (364, 22568), (370, 22586), (393, 22670),

Gene: Donny_32 Start: 32591, Stop: 34096, Start Num: 21

Candidate Starts for Donny_32:

(Start: 21 @32591 has 10 MA's), (22, 32609), (25, 32630), (30, 32684), (40, 32762), (42, 32780), (44, 32795), (46, 32807), (109, 33044), (127, 33095), (136, 33122), (144, 33149), (174, 33236), (178, 33251), (195, 33290), (224, 33380), (252, 33440), (298, 33563), (308, 33602), (314, 33638), (395, 33962), (412, 34082),

Gene: Dori_29 Start: 28828, Stop: 29994, Start Num: 51

Candidate Starts for Dori_29:

(Start: 51 @28828 has 10 MA's), (Start: 56 @28834 has 79 MA's), (61, 28846), (70, 28870), (72, 28873), (77, 28903), (91, 28948), (102, 28993), (103, 28996), (170, 29188), (180, 29212), (183, 29218), (197, 29251), (200, 29257), (203, 29263), (204, 29266), (220, 29314), (266, 29377), (268, 29380), (285, 29413), (308, 29488), (312, 29518), (340, 29641), (343, 29650), (345, 29656),

Gene: Douzhi_21 Start: 21427, Stop: 22581, Start Num: 59

Candidate Starts for Douzhi_21:

(Start: 59 @21427 has 52 MA's), (90, 21529), (95, 21541), (112, 21610), (146, 21703), (166, 21757), (175, 21787), (182, 21796), (197, 21835), (214, 21883), (225, 21907), (230, 21919), (265, 21943), (301, 22033), (329, 22150), (332, 22186), (334, 22195), (349, 22252), (354, 22291),

Gene: DuncansLeg_22 Start: 22232, Stop: 23449, Start Num: 59

Candidate Starts for DuncansLeg_22:

(Start: 59 @22232 has 52 MA's), (67, 22259), (90, 22334), (95, 22346), (99, 22364), (111, 22412), (127, 22448), (132, 22463), (134, 22469), (143, 22499), (144, 22502), (146, 22508), (163, 22550), (173, 22586), (182, 22601), (184, 22604), (185, 22607), (186, 22610), (225, 22712), (230, 22724), (257, 22781), (259, 22784), (265, 22808), (292, 22868), (318, 22997), (404, 23375), (406, 23381),

Gene: Durga_33 Start: 32387, Stop: 33547, Start Num: 56

Candidate Starts for Durga_33:

(Start: 56 @32387 has 79 MA's), (91, 32498), (102, 32543), (139, 32642), (160, 32702), (170, 32738), (180, 32762), (200, 32807), (203, 32813), (220, 32864), (241, 32903), (247, 32906), (256, 32918), (270, 32933), (280, 32957), (294, 32990), (312, 33071), (323, 33116), (334, 33164), (342, 33200), (345, 33209), (348, 33215), (402, 33440),

Gene: Eaglehorse_33 Start: 32724, Stop: 33887, Start Num: 56

Candidate Starts for Eaglehorse_33:

(31, 32577), (Start: 51 @32718 has 10 MA's), (Start: 56 @32724 has 79 MA's), (72, 32763), (77, 32793), (91, 32838), (102, 32883), (139, 32982), (160, 33042), (170, 33078), (180, 33102), (200, 33147), (203, 33153), (220, 33204), (241, 33243), (247, 33246), (256, 33258), (270, 33273), (280, 33297), (294, 33330), (312, 33411), (323, 33456), (334, 33504), (342, 33540), (345, 33549), (348, 33555), (402, 33780),

Gene: EastView9101_31 Start: 32241, Stop: 33746, Start Num: 21

Candidate Starts for EastView9101_31:

(Start: 21 @32241 has 10 MA's), (22, 32259), (25, 32280), (30, 32334), (40, 32412), (42, 32430), (44, 32445), (46, 32457), (109, 32694), (127, 32745), (136, 32772), (144, 32799), (174, 32886), (178, 32901), (195, 32940), (224, 33030), (252, 33090), (298, 33213), (308, 33252), (314, 33288), (395, 33612), (412, 33732),

Gene: Ein37_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Ein37_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Ellson_22 Start: 22237, Stop: 23436, Start Num: 59

Candidate Starts for Ellson_22:

(Start: 59 @22237 has 52 MA's), (90, 22339), (99, 22369), (101, 22378), (111, 22417), (117, 22429), (132, 22468), (143, 22504), (146, 22513), (161, 22549), (175, 22597), (230, 22729), (233, 22735), (292, 22873), (318, 23002), (333, 23056), (337, 23074), (385, 23266), (405, 23374),

Gene: ElvisPhasley_33 Start: 32409, Stop: 33569, Start Num: 56

Candidate Starts for ElvisPhasley_33:

(Start: 56 @32409 has 79 MA's), (91, 32520), (102, 32565), (139, 32664), (160, 32724), (170, 32760), (180, 32784), (200, 32829), (203, 32835), (220, 32886), (241, 32925), (247, 32928), (256, 32940), (270, 32955), (280, 32979), (294, 33012), (312, 33093), (323, 33138), (334, 33186), (342, 33222), (345, 33231), (348, 33237), (402, 33462),

Gene: Emiris_33 Start: 32358, Stop: 33518, Start Num: 56

Candidate Starts for Emiris_33:

(Start: 56 @32358 has 79 MA's), (91, 32469), (102, 32514), (139, 32613), (160, 32673), (170, 32709), (180, 32733), (200, 32778), (203, 32784), (220, 32835), (241, 32874), (247, 32877), (256, 32889), (270, 32904), (280, 32928), (294, 32961), (312, 33042), (323, 33087), (334, 33135), (342, 33171), (345, 33180), (348, 33186), (402, 33411),

Gene: Enceladus_21 Start: 21672, Stop: 22844, Start Num: 59

Candidate Starts for Enceladus_21:

(Start: 57 @21669 has 97 MA's), (Start: 59 @21672 has 52 MA's), (Start: 97 @21798 has 1 MA's), (107, 21840), (111, 21852), (112, 21855), (127, 21888), (131, 21900), (146, 21948), (150, 21966), (166, 22002), (170, 22017), (194, 22068), (205, 22098), (217, 22140), (231, 22164), (272, 22200), (275, 22206), (287, 22233), (292, 22251), (314, 22344), (315, 22347), (333, 22431), (364, 22569), (370, 22587), (393, 22671),

Gene: Epah_29 Start: 31578, Stop: 32735, Start Num: 57

Candidate Starts for Epah_29:

(Start: 57 @31578 has 97 MA's), (Start: 88 @31671 has 6 MA's), (91, 31686), (96, 31701), (99, 31713), (102, 31731), (135, 31821), (148, 31872), (153, 31881), (157, 31887), (162, 31899), (170, 31926), (184, 31941), (190, 31947), (193, 31953), (204, 31986), (206, 31995), (216, 32028), (244, 32061), (280, 32151), (292, 32157), (313, 32256), (314, 32259), (348, 32403), (384, 32556),

Gene: Estes_36 Start: 28017, Stop: 29099, Start Num: 88

Candidate Starts for Estes_36:

(87, 28011), (Start: 88 @28017 has 6 MA's), (105, 28092), (122, 28137), (124, 28143), (126, 28149), (132, 28167), (146, 28212), (148, 28227), (156, 28242), (167, 28266), (173, 28287), (200, 28341), (203, 28347), (212, 28377), (291, 28521),

Gene: Eugenia_33 Start: 32376, Stop: 33536, Start Num: 56

Candidate Starts for Eugenia_33:

(Start: 56 @32376 has 79 MA's), (91, 32487), (102, 32532), (139, 32631), (160, 32691), (170, 32727), (180, 32751), (200, 32796), (203, 32802), (220, 32853), (241, 32892), (247, 32895), (256, 32907),

(270, 32922), (280, 32946), (294, 32979), (312, 33060), (323, 33105), (334, 33153), (342, 33189), (345, 33198), (348, 33204), (402, 33429),

Gene: Evanesce_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Evanesce_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: EvilGenius_34 Start: 25671, Stop: 26591, Start Num: 59

Candidate Starts for EvilGenius_34:

(Start: 59 @25671 has 52 MA's), (93, 25779), (125, 25881), (132, 25902), (150, 25965), (207, 26097), (317, 26379), (357, 26529), (373, 26586),

Gene: Faiyaz_28 Start: 26025, Stop: 27062, Start Num: 81

Candidate Starts for Faiyaz_28:

(Start: 81 @26025 has 3 MA's), (118, 26148), (138, 26202), (150, 26238), (182, 26301), (205, 26349), (251, 26403), (252, 26406), (312, 26592), (320, 26628), (330, 26670), (334, 26688), (348, 26739),

Gene: Fanaw_29 Start: 32276, Stop: 33433, Start Num: 57

Candidate Starts for Fanaw_29:

(Start: 57 @32276 has 97 MA's), (Start: 88 @32369 has 6 MA's), (91, 32384), (96, 32399), (99, 32411), (102, 32429), (116, 32471), (148, 32570), (153, 32579), (162, 32597), (170, 32624), (184, 32639), (190, 32645), (193, 32651), (195, 32657), (204, 32684), (206, 32693), (216, 32726), (244, 32759), (280, 32849), (292, 32855), (306, 32900), (313, 32954), (314, 32957), (348, 33101), (384, 33254),

Gene: Fang_33 Start: 32380, Stop: 33540, Start Num: 56

Candidate Starts for Fang_33:

(Start: 56 @32380 has 79 MA's), (91, 32491), (102, 32536), (139, 32635), (160, 32695), (170, 32731), (180, 32755), (200, 32800), (203, 32806), (220, 32857), (241, 32896), (247, 32899), (256, 32911), (270, 32926), (280, 32950), (294, 32983), (312, 33064), (323, 33109), (334, 33157), (342, 33193), (345, 33202), (348, 33208), (402, 33433),

Gene: Faze9_33 Start: 32820, Stop: 33983, Start Num: 56

Candidate Starts for Faze9_33:

(Start: 51 @32814 has 10 MA's), (Start: 56 @32820 has 79 MA's), (72, 32859), (77, 32889), (91, 32934), (102, 32979), (139, 33078), (160, 33138), (170, 33174), (180, 33198), (200, 33243), (203, 33249), (220, 33300), (241, 33339), (247, 33342), (256, 33354), (270, 33369), (280, 33393), (294, 33426), (312, 33507), (323, 33552), (334, 33600), (342, 33636), (345, 33645), (348, 33651), (402, 33876),

Gene: Finnry_22 Start: 22251, Stop: 23468, Start Num: 59

Candidate Starts for Finnry_22:

(Start: 59 @22251 has 52 MA's), (90, 22353), (95, 22365), (99, 22383), (101, 22392), (111, 22431), (127, 22467), (132, 22482), (134, 22488), (143, 22518), (144, 22521), (157, 22557), (163, 22569), (182, 22620), (184, 22623), (206, 22683), (215, 22710), (222, 22725), (225, 22731), (230, 22743), (259, 22803), (265, 22827), (292, 22887), (313, 22983), (318, 23016), (337, 23088), (342, 23112), (348, 23127), (398, 23340), (399, 23352),

Gene: ForDig_27 Start: 30056, Stop: 31282, Start Num: 59

Candidate Starts for ForDig_27:

(Start: 59 @30056 has 52 MA's), (72, 30095), (Start: 81 @30137 has 3 MA's), (84, 30146), (85, 30149), (91, 30170), (102, 30215), (125, 30275), (132, 30296), (133, 30299), (149, 30356), (170, 30410), (171, 30413), (173, 30419), (181, 30458), (191, 30482), (208, 30536), (210, 30542), (212, 30548), (223, 30575), (227, 30584), (247, 30629), (274, 30707), (313, 30842), (322, 30878), (343, 30968), (360, 31028), (374, 31082), (393, 31136),

Gene: Forge_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Forge_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Fortunato_30 Start: 32604, Stop: 33761, Start Num: 57

Candidate Starts for Fortunato_30:

(Start: 57 @32604 has 97 MA's), (Start: 88 @32697 has 6 MA's), (91, 32712), (96, 32727), (99, 32739), (102, 32757), (116, 32799), (148, 32898), (153, 32907), (162, 32925), (170, 32952), (184, 32967), (190, 32973), (193, 32979), (195, 32985), (204, 33012), (206, 33021), (216, 33054), (244, 33087), (280, 33177), (292, 33183), (308, 33249), (312, 33279), (313, 33282), (348, 33429), (384, 33582),

Gene: Frederick_30 Start: 32610, Stop: 33767, Start Num: 57

Candidate Starts for Frederick_30:

(Start: 57 @32610 has 97 MA's), (Start: 88 @32703 has 6 MA's), (91, 32718), (96, 32733), (99, 32745), (102, 32763), (116, 32805), (135, 32853), (148, 32904), (153, 32913), (162, 32931), (170, 32958), (184, 32973), (190, 32979), (193, 32985), (195, 32991), (204, 33018), (206, 33027), (216, 33060), (244, 33093), (269, 33153), (280, 33183), (292, 33189), (306, 33234), (313, 33288), (314, 33291), (348, 33435), (384, 33588),

Gene: FrenchFry_33 Start: 32814, Stop: 33977, Start Num: 56

Candidate Starts for FrenchFry_33:

(31, 32667), (Start: 51 @32808 has 10 MA's), (Start: 56 @32814 has 79 MA's), (72, 32853), (77, 32883), (91, 32928), (102, 32973), (139, 33072), (160, 33132), (170, 33168), (180, 33192), (200, 33237), (203, 33243), (220, 33294), (241, 33333), (247, 33336), (256, 33348), (270, 33363), (280, 33387), (294, 33420), (312, 33501), (334, 33594), (342, 33630), (345, 33639), (348, 33645), (361, 33705), (402, 33870),

Gene: Freya_32 Start: 32064, Stop: 33224, Start Num: 56

Candidate Starts for Freya_32:

(Start: 56 @32064 has 79 MA's), (91, 32175), (102, 32220), (139, 32319), (160, 32379), (170, 32415), (180, 32439), (200, 32484), (203, 32490), (220, 32541), (241, 32580), (247, 32583), (256, 32595), (270, 32610), (280, 32634), (294, 32667), (312, 32748), (323, 32793), (334, 32841), (342, 32877), (345, 32886), (348, 32892), (402, 33117),

Gene: Fulbright_21 Start: 20200, Stop: 21357, Start Num: 65

Candidate Starts for Fulbright_21:

(Start: 65 @20200 has 3 MA's), (84, 20281), (91, 20308), (Start: 97 @20329 has 1 MA's), (113, 20389), (125, 20413), (127, 20419), (133, 20437), (137, 20449), (142, 20461), (144, 20473), (157, 20509), (166, 20533), (170, 20548), (173, 20557), (182, 20581), (189, 20596), (194, 20611), (252, 20695), (253, 20698), (263, 20719), (273, 20740), (278, 20749), (280, 20761), (287, 20770), (348, 21031), (359, 21100), (410, 21334),

Gene: Funsized_35 Start: 35123, Stop: 36316, Start Num: 59

Candidate Starts for Funsized_35:

(18, 34694), (43, 35066), (48, 35099), (Start: 59 @35123 has 52 MA's), (101, 35279), (114, 35327), (127, 35354), (132, 35369), (134, 35375), (151, 35432), (170, 35483), (171, 35486), (173, 35492), (176, 35507), (196, 35543), (202, 35552), (255, 35648), (275, 35672), (277, 35675), (313, 35804), (331, 35891), (344, 35945), (410, 36290), (411, 36296),

Gene: Gadget_34 Start: 32229, Stop: 33431, Start Num: 57

Candidate Starts for Gadget_34:

(Start: 57 @32229 has 97 MA's), (72, 32262), (109, 32406), (112, 32415), (115, 32424), (132, 32463), (135, 32472), (142, 32490), (146, 32508), (150, 32526), (153, 32532), (160, 32544), (166, 32562), (170, 32577), (190, 32610), (198, 32637), (212, 32682), (247, 32763), (261, 32790), (265, 32808), (275, 32826), (292, 32868), (319, 32997), (340, 33087), (363, 33189), (380, 33246), (383, 33255), (393, 33294), (403, 33366), (410, 33408),

Gene: Gail_32 Start: 24477, Stop: 25421, Start Num: 59

Candidate Starts for Gail_32:

(Start: 59 @24477 has 52 MA's), (90, 24582), (93, 24588), (96, 24600), (104, 24636), (132, 24711), (150, 24774), (152, 24777), (153, 24780), (208, 24915), (355, 25371),

Gene: Gancho_26 Start: 23095, Stop: 24333, Start Num: 57

Candidate Starts for Gancho_26:

(9, 22483), (11, 22549), (17, 22642), (20, 22792), (23, 22879), (24, 22882), (41, 23020), (Start: 57 @23095 has 97 MA's), (86, 23191), (93, 23218), (95, 23224), (103, 23263), (105, 23272), (Start: 123 @23317 has 3 MA's), (128, 23329), (141, 23368), (161, 23425), (175, 23476), (177, 23491), (193, 23530), (205, 23563), (211, 23584), (213, 23590), (228, 23626), (235, 23638), (237, 23641), (258, 23689), (265, 23695), (267, 23698), (272, 23707), (312, 23845), (334, 23938), (349, 23995), (350, 24001), (367, 24085), (371, 24100), (372, 24103), (391, 24169), (396, 24202),

Gene: GardenSalsa_35 Start: 27841, Stop: 28923, Start Num: 88

Candidate Starts for GardenSalsa_35:

(87, 27835), (Start: 88 @27841 has 6 MA's), (105, 27916), (122, 27961), (124, 27967), (126, 27973), (132, 27991), (146, 28036), (148, 28051), (156, 28066), (167, 28090), (173, 28111), (200, 28165), (203, 28171), (212, 28201), (291, 28345), (300, 28381), (408, 28879),

Gene: GeneCoco_33 Start: 32381, Stop: 33541, Start Num: 56

Candidate Starts for GeneCoco_33:

(Start: 56 @32381 has 79 MA's), (91, 32492), (102, 32537), (139, 32636), (160, 32696), (170, 32732), (180, 32756), (200, 32801), (203, 32807), (220, 32858), (241, 32897), (247, 32900), (256, 32912), (270, 32927), (280, 32951), (294, 32984), (312, 33065), (323, 33110), (334, 33158), (342, 33194), (345, 33203), (348, 33209), (402, 33434),

Gene: GenevaB15_35 Start: 27886, Stop: 28968, Start Num: 88

Candidate Starts for GenevaB15_35:

(Start: 81 @27865 has 3 MA's), (87, 27880), (Start: 88 @27886 has 6 MA's), (105, 27961), (122, 28006), (124, 28012), (126, 28018), (132, 28036), (135, 28045), (148, 28096), (156, 28111), (167, 28135), (173, 28156), (200, 28210), (203, 28216), (222, 28270), (300, 28426), (395, 28837),

Gene: Gervas_33 Start: 32200, Stop: 33402, Start Num: 57

Candidate Starts for Gervas_33:

(Start: 57 @32200 has 97 MA's), (72, 32233), (109, 32377), (112, 32386), (115, 32395), (132, 32434), (135, 32443), (142, 32461), (158, 32512), (162, 32521), (166, 32533), (168, 32539), (170, 32548),

(195, 32593), (198, 32608), (212, 32653), (228, 32692), (243, 32722), (249, 32737), (254, 32749), (263, 32773), (282, 32818), (292, 32839), (297, 32863), (314, 32938), (319, 32968), (334, 33028), (336, 33040), (340, 33058), (363, 33160), (393, 33265), (395, 33271), (397, 33289), (409, 33376),

Gene: Giles_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Giles_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: GinPorsche_29 Start: 31578, Stop: 32735, Start Num: 57

Candidate Starts for GinPorsche_29:

(Start: 57 @31578 has 97 MA's), (Start: 88 @31671 has 6 MA's), (91, 31686), (96, 31701), (99, 31713), (102, 31731), (135, 31821), (148, 31872), (153, 31881), (157, 31887), (162, 31899), (170, 31926), (184, 31941), (190, 31947), (193, 31953), (204, 31986), (206, 31995), (216, 32028), (244, 32061), (280, 32151), (292, 32157), (313, 32256), (314, 32259), (348, 32403), (384, 32556),

Gene: Glass_33 Start: 32814, Stop: 33977, Start Num: 56

Candidate Starts for Glass_33:

(Start: 51 @32808 has 10 MA's), (Start: 56 @32814 has 79 MA's), (72, 32853), (77, 32883), (91, 32928), (102, 32973), (139, 33072), (160, 33132), (170, 33168), (180, 33192), (200, 33237), (203, 33243), (220, 33294), (241, 33333), (247, 33336), (256, 33348), (270, 33363), (280, 33387), (294, 33420), (312, 33501), (323, 33546), (334, 33594), (342, 33630), (345, 33639), (348, 33645), (402, 33870),

Gene: GlenHope_34 Start: 32212, Stop: 33414, Start Num: 57

Candidate Starts for GlenHope_34:

(Start: 57 @32212 has 97 MA's), (109, 32389), (112, 32398), (115, 32407), (132, 32446), (135, 32455), (142, 32473), (146, 32491), (150, 32509), (153, 32515), (160, 32527), (166, 32545), (170, 32560), (190, 32593), (198, 32620), (212, 32665), (247, 32746), (261, 32773), (265, 32791), (275, 32809), (292, 32851), (319, 32980), (340, 33070), (363, 33172), (383, 33238), (393, 33277), (403, 33349), (410, 33391),

Gene: Glubnar_34 Start: 32212, Stop: 33414, Start Num: 57

Candidate Starts for Glubnar_34:

(Start: 57 @32212 has 97 MA's), (72, 32245), (109, 32389), (112, 32398), (115, 32407), (132, 32446), (135, 32455), (142, 32473), (158, 32524), (162, 32533), (166, 32545), (168, 32551), (170, 32560), (195, 32605), (198, 32620), (212, 32665), (228, 32704), (243, 32734), (249, 32749), (254, 32761), (263, 32785), (284, 32833), (289, 32839), (291, 32845), (292, 32851), (297, 32875), (314, 32950), (319, 32980), (334, 33040), (336, 33052), (340, 33070), (362, 33169), (363, 33172), (393, 33277), (395, 33283), (397, 33301), (409, 33388),

Gene: GodPhather_26 Start: 30204, Stop: 31373, Start Num: 51

Candidate Starts for GodPhather_26:

(Start: 51 @30204 has 10 MA's), (Start: 56 @30210 has 79 MA's), (72, 30249), (77, 30279), (91, 30324), (102, 30369), (139, 30468), (160, 30528), (170, 30564), (180, 30588), (200, 30633), (203, 30639), (220, 30690), (241, 30729), (247, 30732), (256, 30744), (270, 30759), (280, 30783), (294, 30816), (312, 30897), (323, 30942), (334, 30990), (342, 31026), (345, 31035), (348, 31041), (402, 31266),

Gene: Godines_33 Start: 32691, Stop: 33896, Start Num: 54

Candidate Starts for Godines_33:

(32, 32547), (Start: 52 @32688 has 2 MA's), (Start: 54 @32691 has 7 MA's), (78, 32760), (99, 32829), (105, 32859), (109, 32871), (111, 32877), (112, 32880), (115, 32889), (132, 32928), (135, 32937), (140, 32949), (158, 33006), (166, 33027), (170, 33042), (195, 33087), (198, 33102), (212, 33147), (243, 33216), (254, 33243), (263, 33267), (282, 33312), (292, 33333), (297, 33357), (314, 33432), (319, 33462), (334, 33522), (336, 33534), (340, 33552), (363, 33654), (395, 33765), (397, 33783), (404, 33834), (409, 33870),

Gene: Gravaillia_27 Start: 23101, Stop: 24339, Start Num: 57

Candidate Starts for Gravaillia_27:

(9, 22489), (11, 22555), (16, 22645), (17, 22648), (20, 22798), (23, 22885), (24, 22888), (41, 23026), (Start: 57 @23101 has 97 MA's), (86, 23197), (93, 23224), (95, 23230), (103, 23269), (105, 23278), (Start: 123 @23323 has 3 MA's), (128, 23335), (141, 23374), (161, 23431), (175, 23482), (177, 23497), (193, 23536), (205, 23569), (211, 23590), (213, 23596), (228, 23632), (235, 23644), (237, 23647), (258, 23695), (265, 23701), (267, 23704), (272, 23713), (312, 23851), (334, 23944), (349, 24001), (350, 24007), (367, 24091), (371, 24106), (372, 24109), (391, 24175), (396, 24208),

Gene: GreaseLightnin_22 Start: 21355, Stop: 22509, Start Num: 66

Candidate Starts for GreaseLightnin_22:

(27, 21118), (29, 21160), (34, 21190), (37, 21220), (38, 21229), (45, 21280), (Start: 55 @21334 has 9 MA's), (Start: 66 @21355 has 20 MA's), (84, 21436), (Start: 97 @21484 has 1 MA's), (113, 21544), (119, 21553), (125, 21568), (133, 21592), (142, 21616), (144, 21628), (170, 21703), (173, 21712), (182, 21736), (194, 21766), (252, 21850), (253, 21853), (263, 21874), (312, 22033), (332, 22123), (334, 22132), (340, 22162), (348, 22183), (410, 22486),

Gene: Guillaume_30 Start: 38118, Stop: 39020, Start Num: 129

Candidate Starts for Guillaume_30:

(Start: 129 @38118 has 2 MA's), (182, 38256), (190, 38274), (209, 38325), (257, 38373), (283, 38436), (295, 38472), (332, 38640), (395, 38874), (397, 38892), (410, 38997),

Gene: HH92_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for HH92_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Hadrien_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Hadrien_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Hail_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Hail_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548),

(Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Halena_21 Start: 21699, Stop: 22871, Start Num: 59

Candidate Starts for Halena_21:

(Start: 57 @21696 has 97 MA's), (Start: 59 @21699 has 52 MA's), (Start: 97 @21825 has 1 MA's), (107, 21867), (111, 21879), (112, 21882), (127, 21915), (131, 21927), (146, 21975), (150, 21993), (166, 22029), (170, 22044), (194, 22095), (205, 22125), (217, 22167), (231, 22191), (272, 22227), (275, 22233), (287, 22260), (292, 22278), (314, 22371), (315, 22374), (333, 22458), (364, 22596), (370, 22614), (393, 22698),

Gene: Halfpint_32 Start: 32038, Stop: 33240, Start Num: 57

Candidate Starts for Halfpint_32:

(Start: 57 @32038 has 97 MA's), (109, 32215), (112, 32224), (115, 32233), (132, 32272), (135, 32281), (142, 32299), (146, 32317), (150, 32335), (153, 32341), (160, 32353), (166, 32371), (170, 32386), (198, 32446), (212, 32491), (247, 32572), (261, 32599), (265, 32617), (275, 32635), (292, 32677), (319, 32806), (340, 32896), (363, 32998), (380, 33055), (383, 33064), (393, 33103), (403, 33175), (410, 33217),

Gene: Hally898_29 Start: 31590, Stop: 32747, Start Num: 57

Candidate Starts for Hally898_29:

(Start: 57 @31590 has 97 MA's), (Start: 88 @31683 has 6 MA's), (91, 31698), (96, 31713), (99, 31725), (102, 31743), (135, 31833), (148, 31884), (153, 31893), (157, 31899), (162, 31911), (170, 31938), (184, 31953), (190, 31959), (193, 31965), (204, 31998), (206, 32007), (216, 32040), (244, 32073), (280, 32163), (292, 32169), (313, 32268), (314, 32271), (348, 32415), (384, 32568),

Gene: Hanako_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Hanako_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Hangman_30 Start: 32602, Stop: 33759, Start Num: 57

Candidate Starts for Hangman_30:

(Start: 57 @32602 has 97 MA's), (Start: 88 @32695 has 6 MA's), (91, 32710), (96, 32725), (99, 32737), (102, 32755), (116, 32797), (148, 32896), (153, 32905), (162, 32923), (184, 32965), (190, 32971), (193, 32977), (195, 32983), (204, 33010), (206, 33019), (216, 33052), (244, 33085), (269, 33145), (280, 33175), (292, 33181), (296, 33202), (306, 33226), (313, 33280), (314, 33283), (348, 33427),

Gene: HarveySr_33 Start: 32202, Stop: 33404, Start Num: 57

Candidate Starts for HarveySr_33:

(Start: 57 @32202 has 97 MA's), (72, 32235), (109, 32379), (112, 32388), (115, 32397), (132, 32436), (135, 32445), (142, 32463), (146, 32481), (150, 32499), (153, 32505), (160, 32517), (166, 32535), (170, 32550), (190, 32583), (198, 32610), (212, 32655), (247, 32736), (261, 32763), (265, 32781), (275, 32799), (292, 32841), (319, 32970), (340, 33060), (363, 33162), (380, 33219), (383, 33228), (393, 33267), (403, 33339), (410, 33381),

Gene: Hashim76_35 Start: 31239, Stop: 32393, Start Num: 55

Candidate Starts for Hashim76_35:

(Start: 55 @31239 has 9 MA's), (91, 31356), (106, 31416), (113, 31437), (117, 31446), (132, 31485), (135, 31494), (148, 31545), (172, 31605), (186, 31632), (203, 31674), (212, 31704), (233, 31752), (293, 31854), (294, 31866), (313, 31941), (335, 32037), (341, 32067), (348, 32085), (352, 32121), (386, 32223),

Gene: Heath_29 Start: 32206, Stop: 33363, Start Num: 57

Candidate Starts for Heath_29:

(Start: 57 @32206 has 97 MA's), (Start: 88 @32299 has 6 MA's), (91, 32314), (96, 32329), (99, 32341), (102, 32359), (116, 32401), (148, 32500), (153, 32509), (162, 32527), (170, 32554), (184, 32569), (190, 32575), (193, 32581), (195, 32587), (204, 32614), (206, 32623), (216, 32656), (244, 32689), (252, 32707), (269, 32749), (280, 32779), (292, 32785), (296, 32806), (313, 32884), (314, 32887), (328, 32932), (348, 33031), (384, 33184),

Gene: Heathcliff_33 Start: 32184, Stop: 33386, Start Num: 57

Candidate Starts for Heathcliff_33:

(Start: 57 @32184 has 97 MA's), (72, 32217), (109, 32361), (112, 32370), (115, 32379), (132, 32418), (135, 32427), (142, 32445), (146, 32463), (150, 32481), (153, 32487), (160, 32499), (166, 32517), (170, 32532), (190, 32565), (198, 32592), (212, 32637), (247, 32718), (261, 32745), (265, 32763), (275, 32781), (292, 32823), (297, 32847), (314, 32922), (319, 32952), (334, 33012), (336, 33024), (340, 33042), (363, 33144), (393, 33249), (395, 33255), (397, 33273), (409, 33360),

Gene: Hedgerow_33 Start: 32796, Stop: 33959, Start Num: 56

Candidate Starts for Hedgerow_33:

(31, 32649), (Start: 51 @32790 has 10 MA's), (Start: 56 @32796 has 79 MA's), (72, 32835), (77, 32865), (91, 32910), (102, 32955), (139, 33054), (160, 33114), (170, 33150), (180, 33174), (200, 33219), (203, 33225), (220, 33276), (241, 33315), (247, 33318), (256, 33330), (270, 33345), (280, 33369), (294, 33402), (312, 33483), (334, 33576), (342, 33612), (345, 33621), (348, 33627), (361, 33687), (402, 33852),

Gene: HenryJackson_32 Start: 32090, Stop: 33250, Start Num: 56

Candidate Starts for HenryJackson_32:

(Start: 56 @32090 has 79 MA's), (91, 32201), (102, 32246), (139, 32345), (160, 32405), (170, 32441), (180, 32465), (200, 32510), (203, 32516), (220, 32567), (241, 32606), (247, 32609), (256, 32621), (270, 32636), (280, 32660), (294, 32693), (312, 32774), (323, 32819), (334, 32867), (342, 32903), (345, 32912), (348, 32918), (402, 33143),

Gene: HighStump_32 Start: 32073, Stop: 33233, Start Num: 56

Candidate Starts for HighStump_32:

(Start: 56 @32073 has 79 MA's), (91, 32184), (102, 32229), (139, 32328), (160, 32388), (170, 32424), (180, 32448), (200, 32493), (203, 32499), (220, 32550), (241, 32589), (247, 32592), (256, 32604), (270, 32619), (280, 32643), (294, 32676), (312, 32757), (323, 32802), (334, 32850), (342, 32886), (345, 32895), (348, 32901), (402, 33126),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 81

Candidate Starts for Hilltopfarm_28:

(Start: 81 @26055 has 3 MA's), (118, 26178), (138, 26232), (150, 26268), (182, 26331), (205, 26379), (251, 26433), (252, 26436), (312, 26622), (320, 26658), (330, 26700), (334, 26718), (348, 26769),

Gene: HogWash_32 Start: 32379, Stop: 33539, Start Num: 56

Candidate Starts for HogWash_32:

(Start: 56 @32379 has 79 MA's), (91, 32490), (102, 32535), (139, 32634), (160, 32694), (170, 32730), (180, 32754), (200, 32799), (203, 32805), (220, 32856), (241, 32895), (247, 32898), (256, 32910), (270, 32925), (280, 32949), (294, 32982), (312, 33063), (323, 33108), (334, 33156), (342, 33192),

(345, 33201), (348, 33207), (402, 33432),

Gene: Holeinone_33 Start: 32676, Stop: 33839, Start Num: 56

Candidate Starts for Holeinone_33:

(31, 32529), (Start: 51 @32670 has 10 MA's), (Start: 56 @32676 has 79 MA's), (72, 32715), (77, 32745), (91, 32790), (102, 32835), (139, 32934), (160, 32994), (170, 33030), (180, 33054), (200, 33099), (203, 33105), (220, 33156), (241, 33195), (247, 33198), (256, 33210), (270, 33225), (280, 33249), (294, 33282), (312, 33363), (334, 33456), (342, 33492), (345, 33501), (348, 33507), (402, 33732),

Gene: Hosp_025 Start: 28263, Stop: 29486, Start Num: 59

Candidate Starts for Hosp_025:

(Start: 59 @28263 has 52 MA's), (72, 28302), (85, 28353), (91, 28374), (96, 28389), (102, 28419), (125, 28479), (132, 28500), (133, 28503), (149, 28560), (170, 28614), (171, 28617), (173, 28623), (207, 28737), (238, 28806), (274, 28911), (312, 29043), (314, 29049), (343, 29172), (360, 29232), (374, 29286), (377, 29292), (393, 29340),

Gene: Hydro_30 Start: 32619, Stop: 33776, Start Num: 57

Candidate Starts for Hydro_30:

(Start: 57 @32619 has 97 MA's), (Start: 88 @32712 has 6 MA's), (91, 32727), (96, 32742), (99, 32754), (102, 32772), (116, 32814), (148, 32913), (153, 32922), (162, 32940), (170, 32967), (184, 32982), (190, 32988), (193, 32994), (195, 33000), (204, 33027), (206, 33036), (216, 33069), (244, 33102), (269, 33162), (280, 33192), (292, 33198), (306, 33243), (313, 33297), (314, 33300), (348, 33444), (384, 33597),

Gene: ImtiyazSitla_32 Start: 31924, Stop: 33084, Start Num: 56

Candidate Starts for ImtiyazSitla_32:

(Start: 56 @31924 has 79 MA's), (91, 32035), (102, 32080), (139, 32179), (160, 32239), (170, 32275), (180, 32299), (200, 32344), (203, 32350), (220, 32401), (241, 32440), (247, 32443), (256, 32455), (270, 32470), (280, 32494), (294, 32527), (312, 32608), (323, 32653), (334, 32701), (342, 32737), (345, 32746), (348, 32752), (402, 32977),

Gene: Imvubu_25 Start: 28919, Stop: 30094, Start Num: 55

Candidate Starts for Imvubu_25:

(Start: 55 @28919 has 9 MA's), (84, 29009), (91, 29036), (Start: 97 @29057 has 1 MA's), (113, 29117), (117, 29126), (132, 29165), (135, 29174), (142, 29192), (148, 29225), (172, 29285), (203, 29354), (208, 29372), (216, 29399), (224, 29414), (230, 29426), (293, 29534), (369, 29858), (391, 29933), (395, 29954), (400, 29984), (410, 30071),

Gene: Indlovu_29 Start: 31250, Stop: 32386, Start Num: 55

Candidate Starts for Indlovu_29:

(47, 31217), (Start: 55 @31250 has 9 MA's), (91, 31367), (113, 31448), (120, 31463), (132, 31496), (135, 31505), (153, 31565), (166, 31595), (173, 31619), (219, 31736), (299, 31877), (327, 31985), (337, 32042),

Gene: ItsyBitsy1_33 Start: 32678, Stop: 33841, Start Num: 56

Candidate Starts for ItsyBitsy1_33:

(31, 32531), (Start: 51 @32672 has 10 MA's), (Start: 56 @32678 has 79 MA's), (72, 32717), (77, 32747), (91, 32792), (102, 32837), (139, 32936), (160, 32996), (170, 33032), (180, 33056), (200, 33101), (203, 33107), (220, 33158), (241, 33197), (247, 33200), (256, 33212), (270, 33227), (280, 33251), (294, 33284), (312, 33365), (334, 33458), (342, 33494), (345, 33503), (348, 33509), (402, 33734),

Gene: JAMaL_30 Start: 32789, Stop: 33946, Start Num: 57

Candidate Starts for JAMaL_30:

(Start: 57 @32789 has 97 MA's), (Start: 88 @32882 has 6 MA's), (91, 32897), (96, 32912), (99, 32924), (102, 32942), (135, 33032), (148, 33083), (153, 33092), (157, 33098), (162, 33110), (170, 33137), (184, 33152), (190, 33158), (193, 33164), (204, 33197), (206, 33206), (216, 33239), (244, 33272), (280, 33362), (292, 33368), (313, 33467), (314, 33470), (348, 33614), (384, 33767),

Gene: JDog_32 Start: 32090, Stop: 33250, Start Num: 56

Candidate Starts for JDog_32:

(Start: 56 @32090 has 79 MA's), (91, 32201), (102, 32246), (139, 32345), (160, 32405), (170, 32441), (180, 32465), (200, 32510), (203, 32516), (220, 32567), (241, 32606), (247, 32609), (256, 32621), (270, 32636), (280, 32660), (294, 32693), (312, 32774), (323, 32819), (334, 32867), (342, 32903), (345, 32912), (348, 32918), (402, 33143),

Gene: Jackstina_30 Start: 32142, Stop: 33344, Start Num: 57

Candidate Starts for Jackstina_30:

(Start: 57 @32142 has 97 MA's), (72, 32175), (109, 32319), (112, 32328), (115, 32337), (132, 32376), (135, 32385), (142, 32403), (146, 32421), (150, 32439), (153, 32445), (160, 32457), (166, 32475), (170, 32490), (190, 32523), (198, 32550), (212, 32595), (247, 32676), (261, 32703), (265, 32721), (275, 32739), (292, 32781), (319, 32910), (340, 33000), (363, 33102), (380, 33159), (383, 33168), (393, 33207), (403, 33279), (410, 33321),

Gene: JaguarMi_30 Start: 32084, Stop: 33241, Start Num: 57

Candidate Starts for JaguarMi_30:

(Start: 57 @32084 has 97 MA's), (Start: 88 @32177 has 6 MA's), (91, 32192), (96, 32207), (99, 32219), (102, 32237), (109, 32261), (116, 32279), (124, 32294), (148, 32378), (153, 32387), (162, 32405), (184, 32447), (190, 32453), (193, 32459), (195, 32465), (204, 32492), (206, 32501), (216, 32534), (244, 32567), (269, 32627), (280, 32657), (292, 32663), (313, 32762), (314, 32765), (338, 32876), (348, 32909), (384, 33062), (391, 33086), (393, 33098),

Gene: Jamie19_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Jamie19_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Jennelsea_19 Start: 20217, Stop: 21371, Start Num: 66

Candidate Starts for Jennelsea_19:

(Start: 62 @20214 has 3 MA's), (Start: 66 @20217 has 20 MA's), (84, 20298), (Start: 97 @20346 has 1 MA's), (113, 20406), (119, 20415), (125, 20430), (133, 20454), (142, 20478), (144, 20490), (170, 20565), (173, 20574), (182, 20598), (194, 20628), (252, 20712), (253, 20715), (263, 20736), (312, 20895), (332, 20985), (334, 20994), (340, 21024), (348, 21045), (410, 21348),

Gene: Jeon_25 Start: 29946, Stop: 31115, Start Num: 51

Candidate Starts for Jeon_25:

(Start: 51 @29946 has 10 MA's), (Start: 56 @29952 has 79 MA's), (72, 29991), (77, 30021), (91, 30066), (102, 30111), (139, 30210), (160, 30270), (170, 30306), (180, 30330), (200, 30375), (203, 30381), (220, 30432), (241, 30471), (247, 30474), (256, 30486), (270, 30501), (280, 30525), (294, 30558), (312, 30639), (323, 30684), (334, 30732), (342, 30768), (345, 30777), (348, 30783), (402, 31008),

Gene: Jillium_32 Start: 32083, Stop: 33243, Start Num: 56

Candidate Starts for Jillium_32:

(Start: 56 @32083 has 79 MA's), (91, 32194), (102, 32239), (139, 32338), (160, 32398), (170, 32434), (180, 32458), (200, 32503), (203, 32509), (220, 32560), (241, 32599), (247, 32602), (256, 32614), (270, 32629), (280, 32653), (294, 32686), (312, 32767), (323, 32812), (334, 32860), (342, 32896), (345, 32905), (348, 32911), (402, 33136),

Gene: Jobypre_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for Jobypre_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565), (182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: JoeDirt_21 Start: 21667, Stop: 22842, Start Num: 57

Candidate Starts for JoeDirt_21:

(Start: 57 @21667 has 97 MA's), (Start: 59 @21670 has 52 MA's), (Start: 97 @21796 has 1 MA's), (107, 21838), (111, 21850), (112, 21853), (127, 21886), (131, 21898), (146, 21946), (150, 21964), (166, 22000), (170, 22015), (194, 22066), (205, 22096), (217, 22138), (231, 22162), (272, 22198), (275, 22204), (287, 22231), (292, 22249), (314, 22342), (315, 22345), (333, 22429), (364, 22567), (370, 22585), (393, 22669),

Gene: Jolie1_027 Start: 30065, Stop: 31273, Start Num: 59

Candidate Starts for Jolie1_027:

(Start: 59 @30065 has 52 MA's), (72, 30104), (Start: 81 @30146 has 3 MA's), (84, 30155), (85, 30158), (91, 30179), (102, 30224), (114, 30263), (125, 30284), (132, 30305), (133, 30308), (149, 30365), (170, 30419), (171, 30422), (173, 30428), (179, 30464), (204, 30530), (207, 30542), (208, 30545), (210, 30551), (227, 30593), (263, 30674), (274, 30698), (313, 30833), (322, 30869), (343, 30959), (360, 31019), (374, 31073), (393, 31127),

Gene: Jolie2_23 Start: 22241, Stop: 23368, Start Num: 59

Candidate Starts for Jolie2_23:

(28, 22061), (43, 22184), (Start: 59 @22241 has 52 MA's), (170, 22592), (188, 22634), (217, 22709), (275, 22781), (291, 22820), (312, 22919), (313, 22922), (314, 22925), (344, 23051), (383, 23189),

Gene: JoyceMaria_30 Start: 32605, Stop: 33762, Start Num: 57

Candidate Starts for JoyceMaria_30:

(Start: 57 @32605 has 97 MA's), (Start: 88 @32698 has 6 MA's), (91, 32713), (96, 32728), (99, 32740), (102, 32758), (116, 32800), (148, 32899), (153, 32908), (162, 32926), (184, 32968), (190, 32974), (193, 32980), (195, 32986), (204, 33013), (206, 33022), (216, 33055), (244, 33088), (269, 33148), (280, 33178), (292, 33184), (296, 33205), (306, 33229), (313, 33283), (314, 33286), (348, 33430),

Gene: Jubie_22 Start: 22248, Stop: 23465, Start Num: 59

Candidate Starts for Jubie_22:

(Start: 59 @22248 has 52 MA's), (90, 22350), (95, 22362), (99, 22380), (101, 22389), (111, 22428), (127, 22464), (132, 22479), (134, 22485), (143, 22515), (144, 22518), (157, 22554), (163, 22566), (182, 22617), (184, 22620), (206, 22680), (215, 22707), (222, 22722), (225, 22728), (230, 22740), (259, 22800), (265, 22824), (292, 22884), (313, 22980), (318, 23013), (337, 23085), (342, 23109), (398, 23337), (399, 23349),

Gene: JustASigh_22 Start: 22794, Stop: 23885, Start Num: 76

Candidate Starts for JustASigh_22:

(47, 22689), (Start: 76 @22794 has 2 MA's), (156, 23058), (198, 23202), (201, 23211), (260, 23322), (334, 23547), (407, 23841), (410, 23862),

Gene: Kahve_32 Start: 32087, Stop: 33247, Start Num: 56

Candidate Starts for Kahve_32:

(Start: 56 @32087 has 79 MA's), (91, 32198), (102, 32243), (139, 32342), (160, 32402), (170, 32438), (180, 32462), (200, 32507), (203, 32513), (220, 32564), (241, 32603), (247, 32606), (256, 32618), (270, 32633), (280, 32657), (294, 32690), (312, 32771), (323, 32816), (334, 32864), (342, 32900), (345, 32909), (348, 32915), (402, 33140),

Gene: Kaleb_33 Start: 32811, Stop: 33974, Start Num: 56

Candidate Starts for Kaleb_33:

(31, 32664), (Start: 51 @32805 has 10 MA's), (Start: 56 @32811 has 79 MA's), (72, 32850), (77, 32880), (91, 32925), (102, 32970), (139, 33069), (160, 33129), (170, 33165), (180, 33189), (200, 33234), (203, 33240), (220, 33291), (241, 33330), (247, 33333), (256, 33345), (270, 33360), (280, 33384), (294, 33417), (312, 33498), (323, 33543), (334, 33591), (342, 33627), (345, 33636), (348, 33642), (402, 33867),

Gene: Kamiyu_33 Start: 32188, Stop: 33390, Start Num: 57

Candidate Starts for Kamiyu_33:

(Start: 57 @32188 has 97 MA's), (72, 32221), (109, 32365), (112, 32374), (115, 32383), (132, 32422), (135, 32431), (142, 32449), (146, 32467), (150, 32485), (153, 32491), (160, 32503), (166, 32521), (170, 32536), (190, 32569), (198, 32596), (212, 32641), (247, 32722), (261, 32749), (265, 32767), (275, 32785), (292, 32827), (319, 32956), (326, 32965), (340, 33046), (363, 33148), (380, 33205), (383, 33214), (393, 33253), (403, 33325), (410, 33367),

Gene: KarasumaRum_34 Start: 32734, Stop: 34239, Start Num: 21

Candidate Starts for KarasumaRum_34:

(Start: 21 @32734 has 10 MA's), (25, 32773), (33, 32845), (40, 32905), (42, 32923), (44, 32938), (110, 33190), (121, 33220), (127, 33238), (136, 33265), (144, 33292), (178, 33394), (195, 33433), (198, 33448), (224, 33523), (245, 33568), (247, 33574), (252, 33583), (292, 33679), (308, 33745), (314, 33781), (362, 33994), (395, 34105), (412, 34225),

Gene: Katniss_33 Start: 32386, Stop: 33546, Start Num: 56

Candidate Starts for Katniss_33:

(Start: 56 @32386 has 79 MA's), (91, 32497), (102, 32542), (139, 32641), (160, 32701), (170, 32737), (180, 32761), (200, 32806), (203, 32812), (220, 32863), (241, 32902), (247, 32905), (256, 32917), (270, 32932), (280, 32956), (294, 32989), (312, 33070), (323, 33115), (334, 33163), (342, 33199), (345, 33208), (348, 33214), (402, 33439),

Gene: KayaCho_27 Start: 30061, Stop: 31269, Start Num: 59

Candidate Starts for KayaCho_27:

(13, 29536), (18, 29638), (Start: 59 @30061 has 52 MA's), (72, 30100), (85, 30154), (91, 30175), (96, 30190), (102, 30220), (106, 30235), (132, 30301), (133, 30304), (149, 30361), (151, 30364), (170, 30415), (171, 30418), (173, 30424), (175, 30430), (182, 30466), (207, 30538), (208, 30541), (227, 30589), (238, 30607), (274, 30694), (313, 30829), (342, 30952), (343, 30955), (360, 31015), (374, 31069), (377, 31075), (393, 31123),

Gene: Keziacharles14_32 Start: 24883, Stop: 26085, Start Num: 59

Candidate Starts for Keziacharles14_32:

(Start: 59 @24883 has 52 MA's), (105, 25045), (112, 25066), (140, 25135), (146, 25159), (168, 25219), (173, 25237), (182, 25252), (189, 25267), (208, 25321), (263, 25453), (271, 25468), (288, 25504), (312, 25612), (313, 25615), (316, 25642), (318, 25648), (348, 25759),

Gene: Khan1_33 Start: 32108, Stop: 33268, Start Num: 56

Candidate Starts for Khan1_33:

(Start: 56 @32108 has 79 MA's), (91, 32219), (102, 32264), (139, 32363), (160, 32423), (170, 32459), (180, 32483), (200, 32528), (203, 32534), (220, 32585), (241, 32624), (247, 32627), (256, 32639), (270, 32654), (280, 32678), (294, 32711), (312, 32792), (323, 32837), (334, 32885), (342, 32921), (345, 32930), (348, 32936), (402, 33161),

Gene: Kikipoo_33 Start: 32377, Stop: 33537, Start Num: 56

Candidate Starts for Kikipoo_33:

(Start: 56 @32377 has 79 MA's), (91, 32488), (102, 32533), (139, 32632), (160, 32692), (170, 32728), (180, 32752), (200, 32797), (203, 32803), (220, 32854), (241, 32893), (247, 32896), (256, 32908), (270, 32923), (280, 32947), (294, 32980), (312, 33061), (323, 33106), (334, 33154), (342, 33190), (345, 33199), (348, 33205), (402, 33430),

Gene: Kinbote_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Kinbote_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: KingCyrus_34 Start: 25662, Stop: 26561, Start Num: 59

Candidate Starts for KingCyrus_34:

(Start: 59 @25662 has 52 MA's), (93, 25773), (125, 25875), (132, 25896), (150, 25959), (207, 26091), (317, 26373),

Gene: Kingsolomon_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for Kingsolomon_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565), (182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: KirDoubleO7_20 Start: 22241, Stop: 23458, Start Num: 59

Candidate Starts for KirDoubleO7_20:

(Start: 59 @22241 has 52 MA's), (67, 22268), (90, 22343), (95, 22355), (99, 22373), (111, 22421), (127, 22457), (132, 22472), (134, 22478), (143, 22508), (163, 22559), (173, 22595), (182, 22610), (184, 22613), (225, 22721), (230, 22733), (259, 22793), (265, 22817), (292, 22877), (318, 23006), (322, 23012), (337, 23078),

Gene: Knocker_33 Start: 33872, Stop: 35014, Start Num: 55

Candidate Starts for Knocker_33:

(Start: 55 @33872 has 9 MA's), (91, 33989), (99, 34016), (101, 34025), (106, 34049), (113, 34070), (117, 34079), (127, 34103), (132, 34118), (133, 34121), (135, 34127), (148, 34178), (153, 34187), (162, 34205), (166, 34217), (167, 34220), (173, 34241), (196, 34292), (203, 34307), (206, 34319), (214, 34343), (216, 34352), (230, 34379), (233, 34385), (278, 34445), (280, 34457), (293, 34487), (294, 34499), (313, 34574), (332, 34658), (335, 34670), (341, 34700), (348, 34718), (368, 34799), (374, 34826), (375, 34829), (378, 34838),

Gene: Koella_19 Start: 20229, Stop: 21383, Start Num: 66

Candidate Starts for Koella_19:

(Start: 62 @20226 has 3 MA's), (Start: 66 @20229 has 20 MA's), (84, 20310), (Start: 97 @20358 has 1 MA's), (113, 20418), (119, 20427), (125, 20442), (133, 20466), (142, 20490), (144, 20502), (170, 20577), (173, 20586), (182, 20610), (194, 20640), (252, 20724), (253, 20727), (263, 20748), (312, 20907), (332, 20997), (334, 21006), (340, 21036), (348, 21057), (410, 21360),

Gene: Kolhan_33 Start: 32690, Stop: 33853, Start Num: 56

Candidate Starts for Kolhan_33:

(31, 32543), (Start: 51 @32684 has 10 MA's), (Start: 56 @32690 has 79 MA's), (72, 32729), (77, 32759), (91, 32804), (102, 32849), (139, 32948), (160, 33008), (170, 33044), (180, 33068), (200, 33113), (203, 33119), (220, 33170), (241, 33209), (247, 33212), (256, 33224), (280, 33263), (294, 33296), (312, 33377), (334, 33470), (342, 33506), (345, 33515), (348, 33521), (402, 33746),

Gene: Kronus_32 Start: 32802, Stop: 34004, Start Num: 57

Candidate Starts for Kronus_32:

(Start: 57 @32802 has 97 MA's), (72, 32835), (109, 32979), (112, 32988), (115, 32997), (132, 33036), (135, 33045), (142, 33063), (146, 33081), (150, 33099), (153, 33105), (160, 33117), (166, 33135), (170, 33150), (190, 33183), (198, 33210), (212, 33255), (247, 33336), (261, 33363), (265, 33381), (275, 33399), (292, 33441), (297, 33465), (314, 33540), (319, 33570), (334, 33630), (336, 33642), (340, 33660), (362, 33759), (363, 33762), (393, 33867), (395, 33873), (397, 33891), (409, 33978),

Gene: Krypton555_22 Start: 22170, Stop: 23369, Start Num: 59

Candidate Starts for Krypton555_22:

(Start: 59 @22170 has 52 MA's), (90, 22272), (95, 22284), (99, 22302), (111, 22350), (130, 22395), (132, 22401), (143, 22437), (157, 22476), (161, 22482), (163, 22488), (175, 22530), (206, 22602), (225, 22650), (230, 22662), (233, 22668), (292, 22806), (307, 22851), (312, 22899), (318, 22935), (333, 22989), (337, 23007), (341, 23028), (376, 23178), (385, 23199), (405, 23307),

Gene: Kwksand96_32 Start: 31938, Stop: 33098, Start Num: 56

Candidate Starts for Kwksand96_32:

(Start: 56 @31938 has 79 MA's), (91, 32049), (102, 32094), (139, 32193), (160, 32253), (170, 32289), (180, 32313), (200, 32358), (203, 32364), (220, 32415), (241, 32454), (247, 32457), (256, 32469), (270, 32484), (280, 32508), (294, 32541), (312, 32622), (323, 32667), (334, 32715), (342, 32751), (345, 32760), (348, 32766), (402, 32991),

Gene: Labeouficaum_32 Start: 31933, Stop: 33093, Start Num: 56

Candidate Starts for Labeouficaum_32:

(Start: 56 @31933 has 79 MA's), (91, 32044), (102, 32089), (139, 32188), (160, 32248), (170, 32284), (180, 32308), (200, 32353), (203, 32359), (220, 32410), (241, 32449), (247, 32452), (256, 32464), (270, 32479), (280, 32503), (294, 32536), (312, 32617), (323, 32662), (334, 32710), (342, 32746), (345, 32755), (348, 32761), (402, 32986),

Gene: Lambano_29 Start: 31590, Stop: 32747, Start Num: 57

Candidate Starts for Lambano_29:

(Start: 57 @31590 has 97 MA's), (Start: 88 @31683 has 6 MA's), (91, 31698), (96, 31713), (99, 31725), (102, 31743), (135, 31833), (148, 31884), (153, 31893), (157, 31899), (162, 31911), (170, 31938), (184, 31953), (190, 31959), (193, 31965), (204, 31998), (206, 32007), (216, 32040), (244, 32073), (280, 32163), (292, 32169), (313, 32268), (314, 32271), (348, 32415), (384, 32568),

Gene: Lars_33 Start: 32801, Stop: 33964, Start Num: 56

Candidate Starts for Lars_33:

(31, 32654), (Start: 51 @32795 has 10 MA's), (Start: 56 @32801 has 79 MA's), (72, 32840), (77, 32870), (91, 32915), (102, 32960), (139, 33059), (160, 33119), (170, 33155), (180, 33179), (200, 33224), (203, 33230), (220, 33281), (241, 33320), (247, 33323), (256, 33335), (270, 33350), (280, 33374), (294, 33407), (312, 33488), (334, 33581), (342, 33617), (345, 33626), (348, 33632), (361, 33692), (402, 33857),

Gene: LastJedi_19 Start: 20260, Stop: 21414, Start Num: 66

Candidate Starts for LastJedi_19:

(Start: 62 @20257 has 3 MA's), (Start: 66 @20260 has 20 MA's), (84, 20341), (Start: 97 @20389 has 1 MA's), (113, 20449), (119, 20458), (125, 20473), (133, 20497), (142, 20521), (144, 20533), (170, 20608), (173, 20617), (182, 20641), (194, 20671), (252, 20755), (253, 20758), (263, 20779), (312, 20938), (332, 21028), (334, 21037), (340, 21067), (348, 21088), (410, 21391),

Gene: Laurie_33 Start: 32132, Stop: 33340, Start Num: 54

Candidate Starts for Laurie_33:

(Start: 52 @32129 has 2 MA's), (Start: 54 @32132 has 7 MA's), (78, 32201), (99, 32270), (105, 32300), (109, 32312), (111, 32318), (112, 32321), (115, 32330), (132, 32369), (135, 32378), (140, 32390), (158, 32447), (162, 32456), (166, 32468), (168, 32474), (170, 32483), (195, 32528), (198, 32543), (212, 32588), (243, 32657), (249, 32672), (254, 32684), (263, 32708), (284, 32756), (289, 32762), (292, 32774), (297, 32798), (314, 32873), (319, 32903), (334, 32963), (336, 32975), (340, 32993), (362, 33092), (363, 33095), (393, 33200), (395, 33206), (403, 33272), (404, 33275),

Gene: LeBron_21 Start: 21711, Stop: 22886, Start Num: 57

Candidate Starts for LeBron_21:

(Start: 57 @21711 has 97 MA's), (Start: 59 @21714 has 52 MA's), (Start: 97 @21840 has 1 MA's), (107, 21882), (111, 21894), (112, 21897), (127, 21930), (131, 21942), (146, 21990), (150, 22008), (166, 22044), (170, 22059), (194, 22110), (205, 22140), (217, 22182), (231, 22206), (272, 22242), (275, 22248), (287, 22275), (292, 22293), (314, 22386), (315, 22389), (333, 22473), (364, 22611), (370, 22629), (393, 22713),

Gene: Lephleur_33 Start: 32688, Stop: 33857, Start Num: 51

Candidate Starts for Lephleur_33:

(31, 32547), (Start: 51 @32688 has 10 MA's), (Start: 56 @32694 has 79 MA's), (72, 32733), (77, 32763), (91, 32808), (102, 32853), (139, 32952), (160, 33012), (170, 33048), (180, 33072), (200, 33117), (203, 33123), (220, 33174), (241, 33213), (247, 33216), (256, 33228), (270, 33243), (280, 33267), (294, 33300), (312, 33381), (334, 33474), (342, 33510), (345, 33519), (348, 33525), (402, 33750),

Gene: LestyG_33 Start: 32223, Stop: 33425, Start Num: 57

Candidate Starts for LestyG_33:

(Start: 57 @32223 has 97 MA's), (72, 32256), (109, 32400), (112, 32409), (115, 32418), (132, 32457), (135, 32466), (142, 32484), (146, 32502), (150, 32520), (153, 32526), (160, 32538), (166, 32556), (170, 32571), (190, 32604), (198, 32631), (212, 32676), (247, 32757), (261, 32784), (265, 32802), (275, 32820), (292, 32862), (297, 32886), (314, 32961), (319, 32991), (334, 33051), (336, 33063), (340, 33081), (363, 33183), (393, 33288), (395, 33294), (397, 33312), (409, 33399),

Gene: LilHazelnut_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for LilHazelnut_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271),

(350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: LilMcDreamy_28 Start: 31675, Stop: 32907, Start Num: 59

Candidate Starts for LilMcDreamy_28:

(7, 30913), (8, 30922), (10, 31042), (18, 31252), (Start: 59 @31675 has 52 MA's), (72, 31714), (74, 31720), (91, 31792), (125, 31897), (132, 31918), (149, 31978), (171, 32035), (179, 32077), (190, 32101), (208, 32158), (225, 32200), (238, 32224), (247, 32251), (274, 32329), (312, 32464), (314, 32470), (343, 32593), (360, 32653), (365, 32671), (374, 32707), (377, 32713), (387, 32737), (393, 32761),

Gene: LilSmirk_33 Start: 32688, Stop: 33851, Start Num: 56

Candidate Starts for LilSmirk_33:

(31, 32541), (Start: 51 @32682 has 10 MA's), (Start: 56 @32688 has 79 MA's), (72, 32727), (77, 32757), (91, 32802), (102, 32847), (139, 32946), (160, 33006), (170, 33042), (180, 33066), (200, 33111), (203, 33117), (220, 33168), (241, 33207), (247, 33210), (256, 33222), (270, 33237), (280, 33261), (294, 33294), (312, 33375), (334, 33468), (342, 33504), (345, 33513), (348, 33519), (402, 33744),

Gene: LittleDigger_29 Start: 31609, Stop: 32769, Start Num: 57

Candidate Starts for LittleDigger_29:

(Start: 57 @31609 has 97 MA's), (Start: 88 @31702 has 6 MA's), (91, 31717), (96, 31732), (99, 31744), (102, 31762), (112, 31795), (130, 31837), (148, 31903), (153, 31912), (162, 31930), (170, 31957), (190, 31978), (193, 31984), (194, 31987), (199, 32005), (206, 32029), (216, 32062), (249, 32107), (259, 32125), (269, 32155), (280, 32185), (292, 32191), (308, 32257), (313, 32290), (348, 32437), (384, 32590),

Gene: LiyuLake_22 Start: 22229, Stop: 23428, Start Num: 59

Candidate Starts for LiyuLake_22:

(Start: 59 @22229 has 52 MA's), (90, 22331), (99, 22361), (101, 22370), (111, 22409), (117, 22421), (132, 22460), (143, 22496), (146, 22505), (161, 22541), (175, 22589), (230, 22721), (233, 22727), (262, 22796), (281, 22841), (292, 22865), (312, 22958), (318, 22994), (333, 23048), (337, 23066), (385, 23258), (405, 23366),

Gene: LizLemon_33 Start: 32810, Stop: 33973, Start Num: 56

Candidate Starts for LizLemon_33:

(31, 32663), (Start: 51 @32804 has 10 MA's), (Start: 56 @32810 has 79 MA's), (72, 32849), (77, 32879), (91, 32924), (102, 32969), (139, 33068), (160, 33128), (170, 33164), (180, 33188), (200, 33233), (203, 33239), (220, 33290), (241, 33329), (247, 33332), (256, 33344), (270, 33359), (280, 33383), (294, 33416), (312, 33497), (323, 33542), (334, 33590), (342, 33626), (345, 33635), (348, 33641), (402, 33866),

Gene: Lolalove_30 Start: 32616, Stop: 33773, Start Num: 57

Candidate Starts for Lolalove_30:

(Start: 57 @32616 has 97 MA's), (Start: 88 @32709 has 6 MA's), (91, 32724), (96, 32739), (99, 32751), (102, 32769), (148, 32910), (153, 32919), (162, 32937), (170, 32964), (184, 32979), (190, 32985), (193, 32991), (195, 32997), (204, 33024), (206, 33033), (216, 33066), (244, 33099), (265, 33153), (269, 33159), (280, 33189), (292, 33195), (296, 33216), (306, 33240), (313, 33294), (314, 33297), (348, 33441), (384, 33594),

Gene: Lolly9_22 Start: 22045, Stop: 23244, Start Num: 59

Candidate Starts for Lolly9_22:

(Start: 59 @22045 has 52 MA's), (67, 22072), (95, 22159), (99, 22177), (101, 22186), (111, 22225), (132, 22276), (133, 22279), (146, 22321), (157, 22351), (161, 22357), (163, 22363), (175, 22405),

(225, 22525), (230, 22537), (233, 22543), (292, 22681), (312, 22774), (318, 22810), (333, 22864), (337, 22882), (385, 23074), (405, 23182),

Gene: Longacauda_32 Start: 32077, Stop: 33237, Start Num: 56

Candidate Starts for Longacauda_32:

(Start: 56 @32077 has 79 MA's), (91, 32188), (102, 32233), (139, 32332), (160, 32392), (170, 32428), (180, 32452), (200, 32497), (203, 32503), (220, 32554), (241, 32593), (247, 32596), (256, 32608), (270, 32623), (280, 32647), (294, 32680), (312, 32761), (323, 32806), (334, 32854), (342, 32890), (345, 32899), (348, 32905), (402, 33130),

Gene: Luchador_34 Start: 25731, Stop: 26627, Start Num: 59

Candidate Starts for Luchador_34:

(Start: 59 @25731 has 52 MA's), (109, 25905), (125, 25941), (132, 25962), (147, 26016), (150, 26025), (207, 26157), (334, 26493), (345, 26523),

Gene: Luke_27 Start: 23371, Stop: 24564, Start Num: 57

Candidate Starts for Luke_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (Start: 123 @23548 has 3 MA's), (128, 23560), (141, 23599), (161, 23656), (175, 23707), (177, 23722), (193, 23761), (205, 23794), (211, 23815), (213, 23821), (228, 23857), (235, 23869), (237, 23872), (258, 23920), (265, 23926), (267, 23929), (272, 23938), (312, 24076), (334, 24169), (349, 24226), (350, 24232), (367, 24316), (371, 24331), (372, 24334), (391, 24400), (396, 24433),

Gene: Lumos_22 Start: 22244, Stop: 23461, Start Num: 59

Candidate Starts for Lumos_22:

(Start: 59 @22244 has 52 MA's), (90, 22346), (95, 22358), (99, 22376), (101, 22385), (111, 22424), (127, 22460), (132, 22475), (134, 22481), (143, 22511), (144, 22514), (157, 22550), (163, 22562), (182, 22613), (184, 22616), (206, 22676), (215, 22703), (222, 22718), (225, 22724), (230, 22736), (259, 22796), (265, 22820), (292, 22880), (313, 22976), (318, 23009), (337, 23081), (342, 23105), (398, 23333), (399, 23345),

Gene: Luna22_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Luna22_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (19, 23038), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: MAckerman_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for MAckerman_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: Magpie_29 Start: 32448, Stop: 33605, Start Num: 57

Candidate Starts for Magpie_29:

(Start: 57 @32448 has 97 MA's), (Start: 88 @32541 has 6 MA's), (91, 32556), (96, 32571), (99, 32583), (102, 32601), (135, 32691), (148, 32742), (153, 32751), (157, 32757), (162, 32769), (170, 32796),

(184, 32811), (190, 32817), (193, 32823), (204, 32856), (206, 32865), (216, 32898), (244, 32931), (280, 33021), (292, 33027), (313, 33126), (314, 33129), (348, 33273), (384, 33426),

Gene: Mao1_27 Start: 28750, Stop: 29910, Start Num: 56

Candidate Starts for Mao1_27:

(Start: 56 @28750 has 79 MA's), (70, 28786), (77, 28819), (91, 28864), (102, 28909), (103, 28912), (170, 29104), (180, 29128), (183, 29134), (203, 29179), (204, 29182), (220, 29230), (266, 29293), (268, 29296), (285, 29329), (308, 29404), (312, 29434), (340, 29557), (343, 29566), (345, 29572), (411, 29893),

Gene: Marley1013_33 Start: 33001, Stop: 34203, Start Num: 57

Candidate Starts for Marley1013_33:

(Start: 57 @33001 has 97 MA's), (72, 33034), (109, 33178), (112, 33187), (115, 33196), (132, 33235), (135, 33244), (142, 33262), (146, 33280), (150, 33298), (153, 33304), (160, 33316), (166, 33334), (170, 33349), (190, 33382), (198, 33409), (212, 33454), (247, 33535), (261, 33562), (265, 33580), (275, 33598), (292, 33640), (297, 33664), (314, 33739), (319, 33769), (334, 33829), (336, 33841), (340, 33859), (363, 33961), (393, 34066), (395, 34072), (397, 34090), (409, 34177),

Gene: Marlia_33 Start: 32203, Stop: 33405, Start Num: 57

Candidate Starts for Marlia_33:

(Start: 57 @32203 has 97 MA's), (72, 32236), (109, 32380), (112, 32389), (115, 32398), (132, 32437), (135, 32446), (142, 32464), (146, 32482), (150, 32500), (153, 32506), (160, 32518), (166, 32536), (170, 32551), (190, 32584), (198, 32611), (212, 32656), (247, 32737), (261, 32764), (265, 32782), (275, 32800), (292, 32842), (319, 32971), (340, 33061), (363, 33163), (380, 33220), (383, 33229), (393, 33268), (403, 33340), (410, 33382),

Gene: Mask_28 Start: 28743, Stop: 29903, Start Num: 56

Candidate Starts for Mask_28:

(Start: 56 @28743 has 79 MA's), (70, 28779), (77, 28812), (91, 28857), (102, 28902), (103, 28905), (170, 29097), (180, 29121), (183, 29127), (197, 29160), (200, 29166), (203, 29172), (204, 29175), (220, 29223), (266, 29286), (268, 29289), (285, 29322), (308, 29397), (312, 29427), (340, 29550), (343, 29559), (345, 29565),

Gene: Maskar_32 Start: 31924, Stop: 33084, Start Num: 56

Candidate Starts for Maskar_32:

(Start: 56 @31924 has 79 MA's), (91, 32035), (102, 32080), (139, 32179), (160, 32239), (170, 32275), (180, 32299), (200, 32344), (203, 32350), (220, 32401), (241, 32440), (247, 32443), (256, 32455), (270, 32470), (280, 32494), (294, 32527), (312, 32608), (323, 32653), (334, 32701), (342, 32737), (345, 32746), (348, 32752), (402, 32977),

Gene: MasterPo_33 Start: 32691, Stop: 33860, Start Num: 51

Candidate Starts for MasterPo_33:

(Start: 51 @32691 has 10 MA's), (Start: 56 @32697 has 79 MA's), (72, 32736), (77, 32766), (91, 32811), (102, 32856), (139, 32955), (160, 33015), (170, 33051), (180, 33075), (200, 33120), (203, 33126), (220, 33177), (241, 33216), (247, 33219), (256, 33231), (270, 33246), (280, 33270), (294, 33303), (312, 33384), (323, 33429), (334, 33477), (342, 33513), (345, 33522), (348, 33528), (402, 33753),

Gene: Megabear_25 Start: 29324, Stop: 30529, Start Num: 54

Candidate Starts for Megabear_25:

(Start: 52 @29321 has 2 MA's), (Start: 54 @29324 has 7 MA's), (78, 29393), (99, 29462), (105, 29492), (109, 29504), (111, 29510), (112, 29513), (115, 29522), (132, 29561), (135, 29570), (140, 29582), (158, 29639), (162, 29648), (166, 29660), (170, 29675), (195, 29720), (198, 29735), (212, 29780),

(243, 29849), (254, 29876), (263, 29900), (282, 29945), (292, 29966), (297, 29990), (314, 30065), (319, 30095), (334, 30155), (336, 30167), (340, 30185), (363, 30287), (395, 30398), (397, 30416), (404, 30467), (409, 30503),

Gene: MelsMeow_32 Start: 31973, Stop: 33133, Start Num: 56

Candidate Starts for MelsMeow_32:

(Start: 56 @31973 has 79 MA's), (91, 32084), (102, 32129), (139, 32228), (160, 32288), (170, 32324), (180, 32348), (200, 32393), (203, 32399), (220, 32450), (241, 32489), (247, 32492), (256, 32504), (270, 32519), (280, 32543), (294, 32576), (312, 32657), (323, 32702), (334, 32750), (342, 32786), (345, 32795), (348, 32801), (402, 33026),

Gene: Mesh1_33 Start: 32382, Stop: 33542, Start Num: 56

Candidate Starts for Mesh1_33:

(Start: 56 @32382 has 79 MA's), (91, 32493), (102, 32538), (139, 32637), (160, 32697), (170, 32733), (180, 32757), (200, 32802), (203, 32808), (220, 32859), (241, 32898), (247, 32901), (256, 32913), (270, 32928), (280, 32952), (294, 32985), (312, 33066), (323, 33111), (334, 33159), (342, 33195), (345, 33204), (348, 33210), (402, 33435),

Gene: MilanaBonita_20 Start: 20281, Stop: 21492, Start Num: 66

Candidate Starts for MilanaBonita_20:

(Start: 66 @20281 has 20 MA's), (71, 20305), (84, 20362), (Start: 97 @20410 has 1 MA's), (113, 20470), (119, 20479), (125, 20494), (133, 20518), (142, 20542), (144, 20554), (157, 20590), (170, 20629), (173, 20638), (182, 20662), (194, 20692), (225, 20776), (226, 20779), (238, 20800), (252, 20836), (253, 20839), (263, 20860), (280, 20902), (312, 21019), (320, 21055), (324, 21061), (348, 21166), (363, 21247),

Gene: MiniLon_22 Start: 22045, Stop: 23244, Start Num: 59

Candidate Starts for MiniLon_22:

(Start: 59 @22045 has 52 MA's), (67, 22072), (95, 22159), (99, 22177), (101, 22186), (111, 22225), (132, 22276), (133, 22279), (146, 22321), (157, 22351), (161, 22357), (163, 22363), (175, 22405), (225, 22525), (230, 22537), (233, 22543), (292, 22681), (312, 22774), (318, 22810), (333, 22864), (337, 22882), (385, 23074), (405, 23182),

Gene: MiniMac_22 Start: 22046, Stop: 23245, Start Num: 59

Candidate Starts for MiniMac_22:

(Start: 59 @22046 has 52 MA's), (67, 22073), (95, 22160), (99, 22178), (111, 22226), (132, 22277), (133, 22280), (146, 22322), (157, 22352), (161, 22358), (163, 22364), (175, 22406), (225, 22526), (230, 22538), (233, 22544), (292, 22682), (312, 22775), (318, 22811), (333, 22865), (337, 22883), (385, 23075), (405, 23183),

Gene: Mithril_30 Start: 32620, Stop: 33777, Start Num: 57

Candidate Starts for Mithril_30:

(Start: 57 @32620 has 97 MA's), (Start: 88 @32713 has 6 MA's), (91, 32728), (96, 32743), (99, 32755), (102, 32773), (116, 32815), (148, 32914), (153, 32923), (162, 32941), (170, 32968), (184, 32983), (190, 32989), (193, 32995), (195, 33001), (204, 33028), (206, 33037), (216, 33070), (244, 33103), (269, 33163), (280, 33193), (292, 33199), (306, 33244), (313, 33298), (314, 33301), (348, 33445), (384, 33598),

Gene: MmasiCarm_33 Start: 32205, Stop: 33407, Start Num: 57

Candidate Starts for MmasiCarm_33:

(Start: 57 @32205 has 97 MA's), (72, 32238), (109, 32382), (112, 32391), (115, 32400), (132, 32439), (135, 32448), (142, 32466), (158, 32517), (162, 32526), (166, 32538), (168, 32544), (170, 32553), (195, 32598), (198, 32613), (212, 32658), (243, 32727), (249, 32742), (254, 32754), (263, 32778),

(284, 32826), (289, 32832), (291, 32838), (292, 32844), (297, 32868), (314, 32943), (319, 32973), (334, 33033), (336, 33045), (340, 33063), (363, 33165), (393, 33270), (395, 33276), (397, 33294), (409, 33381),

Gene: Moostard_22 Start: 22250, Stop: 23467, Start Num: 59

Candidate Starts for Moostard_22:

(Start: 59 @22250 has 52 MA's), (90, 22352), (95, 22364), (99, 22382), (101, 22391), (111, 22430), (127, 22466), (132, 22481), (134, 22487), (143, 22517), (144, 22520), (157, 22556), (163, 22568), (182, 22619), (184, 22622), (206, 22682), (215, 22709), (222, 22724), (225, 22730), (230, 22742), (259, 22802), (265, 22826), (292, 22886), (313, 22982), (318, 23015), (337, 23087), (342, 23111), (348, 23126), (398, 23339), (399, 23351),

Gene: Mortcellus_32 Start: 32857, Stop: 34059, Start Num: 57

Candidate Starts for Mortcellus_32:

(Start: 57 @32857 has 97 MA's), (72, 32890), (109, 33034), (112, 33043), (115, 33052), (132, 33091), (135, 33100), (142, 33118), (146, 33136), (150, 33154), (153, 33160), (160, 33172), (170, 33205), (195, 33250), (198, 33265), (212, 33310), (247, 33391), (261, 33418), (265, 33436), (275, 33454), (292, 33496), (297, 33520), (314, 33595), (319, 33625), (334, 33685), (336, 33697), (340, 33715), (363, 33817), (393, 33922), (395, 33928), (397, 33946), (409, 34033),

Gene: Morty007_33 Start: 33001, Stop: 34203, Start Num: 57

Candidate Starts for Morty007_33:

(Start: 57 @33001 has 97 MA's), (72, 33034), (109, 33178), (112, 33187), (115, 33196), (132, 33235), (135, 33244), (142, 33262), (146, 33280), (150, 33298), (153, 33304), (160, 33316), (166, 33334), (170, 33349), (190, 33382), (198, 33409), (212, 33454), (247, 33535), (261, 33562), (265, 33580), (275, 33598), (292, 33640), (297, 33664), (314, 33739), (319, 33769), (334, 33829), (336, 33841), (340, 33859), (363, 33961), (393, 34066), (395, 34072), (397, 34090), (409, 34177),

Gene: MrMagoo_35 Start: 27841, Stop: 28923, Start Num: 88

Candidate Starts for MrMagoo_35:

(87, 27835), (Start: 88 @27841 has 6 MA's), (105, 27916), (122, 27961), (124, 27967), (126, 27973), (132, 27991), (146, 28036), (148, 28051), (156, 28066), (167, 28090), (173, 28111), (200, 28165), (203, 28171), (212, 28201), (226, 28234), (291, 28345), (300, 28381), (408, 28879),

Gene: MrPhizzler_33 Start: 32085, Stop: 33245, Start Num: 56

Candidate Starts for MrPhizzler_33:

(Start: 56 @32085 has 79 MA's), (91, 32196), (102, 32241), (139, 32340), (160, 32400), (170, 32436), (180, 32460), (200, 32505), (203, 32511), (220, 32562), (241, 32601), (247, 32604), (256, 32616), (270, 32631), (280, 32655), (294, 32688), (312, 32769), (323, 32814), (334, 32862), (342, 32898), (345, 32907), (348, 32913), (402, 33138),

Gene: Ms6_19 Start: 19730, Stop: 20884, Start Num: 66

Candidate Starts for Ms6_19:

(27, 19493), (29, 19535), (34, 19565), (37, 19595), (45, 19655), (Start: 55 @19709 has 9 MA's), (Start: 66 @19730 has 20 MA's), (84, 19811), (Start: 97 @19859 has 1 MA's), (113, 19919), (119, 19928), (125, 19943), (133, 19967), (142, 19991), (144, 20003), (170, 20078), (173, 20087), (182, 20111), (194, 20141), (252, 20225), (253, 20228), (263, 20249), (312, 20408), (332, 20498), (334, 20507), (340, 20537), (348, 20558), (410, 20861),

Gene: MsGreen_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for MsGreen_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565),

(182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: Mudslide_30 Start: 32852, Stop: 34009, Start Num: 57

Candidate Starts for Mudslide_30:

(Start: 57 @32852 has 97 MA's), (Start: 88 @32945 has 6 MA's), (91, 32960), (96, 32975), (99, 32987), (102, 33005), (116, 33047), (135, 33095), (148, 33146), (153, 33155), (162, 33173), (170, 33200), (184, 33215), (190, 33221), (193, 33227), (195, 33233), (204, 33260), (206, 33269), (216, 33302), (244, 33335), (280, 33425), (292, 33431), (306, 33476), (313, 33530), (314, 33533), (348, 33677), (384, 33830),

Gene: Mulaychimus_33 Start: 32187, Stop: 33389, Start Num: 57

Candidate Starts for Mulaychimus_33:

(Start: 57 @32187 has 97 MA's), (72, 32220), (109, 32364), (112, 32373), (115, 32382), (132, 32421), (135, 32430), (142, 32448), (158, 32499), (162, 32508), (166, 32520), (168, 32526), (170, 32535), (195, 32580), (198, 32595), (212, 32640), (243, 32709), (249, 32724), (254, 32736), (263, 32760), (284, 32808), (289, 32814), (291, 32820), (292, 32826), (297, 32850), (314, 32925), (319, 32955), (334, 33015), (336, 33027), (340, 33045), (362, 33144), (363, 33147), (393, 33252), (395, 33258), (397, 33276), (409, 33363),

Gene: Mysterious_32 Start: 32854, Stop: 34362, Start Num: 21

Candidate Starts for Mysterious_32:

(Start: 21 @32854 has 10 MA's), (25, 32893), (33, 32965), (35, 32992), (36, 33001), (42, 33043), (44, 33058), (46, 33070), (50, 33100), (Start: 60 @33121 has 1 MA's), (63, 33130), (75, 33178), (92, 33232), (94, 33235), (109, 33307), (127, 33358), (136, 33385), (144, 33412), (164, 33463), (174, 33499), (178, 33514), (195, 33553), (198, 33568), (224, 33643), (245, 33688), (247, 33694), (252, 33703), (280, 33775), (292, 33799), (298, 33826), (308, 33865), (314, 33901), (340, 34027), (362, 34117), (395, 34228), (412, 34348),

Gene: Nanao_29 Start: 31577, Stop: 32734, Start Num: 57

Candidate Starts for Nanao_29:

(Start: 57 @31577 has 97 MA's), (Start: 88 @31670 has 6 MA's), (91, 31685), (96, 31700), (99, 31712), (102, 31730), (135, 31820), (148, 31871), (153, 31880), (157, 31886), (162, 31898), (170, 31925), (184, 31940), (190, 31946), (193, 31952), (204, 31985), (206, 31994), (216, 32027), (244, 32060), (280, 32150), (292, 32156), (313, 32255), (314, 32258), (348, 32402), (384, 32555),

Gene: Nangang_32 Start: 32544, Stop: 34049, Start Num: 21

Candidate Starts for Nangang_32:

(Start: 21 @32544 has 10 MA's), (25, 32583), (33, 32655), (35, 32682), (42, 32733), (44, 32748), (110, 33000), (121, 33030), (127, 33048), (136, 33075), (144, 33102), (178, 33204), (195, 33243), (198, 33258), (224, 33333), (245, 33378), (247, 33384), (252, 33393), (292, 33489), (308, 33555), (314, 33591), (362, 33804), (395, 33915), (412, 34035),

Gene: Nanosmite_35 Start: 27723, Stop: 28895, Start Num: 59

Candidate Starts for Nanosmite_35:

(Start: 54 @27717 has 7 MA's), (Start: 59 @27723 has 52 MA's), (90, 27828), (91, 27831), (99, 27858), (142, 27984), (161, 28038), (163, 28044), (165, 28053), (190, 28113), (203, 28146), (212, 28176), (214, 28182), (265, 28242), (286, 28284), (347, 28539), (356, 28593), (382, 28689), (390, 28716), (392, 28722),

Gene: Nathan_33 Start: 32407, Stop: 33567, Start Num: 56

Candidate Starts for Nathan_33:

(Start: 56 @32407 has 79 MA's), (91, 32518), (102, 32563), (139, 32662), (160, 32722), (170, 32758), (180, 32782), (200, 32827), (203, 32833), (220, 32884), (241, 32923), (247, 32926), (256, 32938), (270, 32953), (280, 32977), (294, 33010), (312, 33091), (323, 33136), (334, 33184), (342, 33220), (345, 33229), (348, 33235), (402, 33460),

Gene: Nehemiah_31 Start: 32857, Stop: 34362, Start Num: 21

Candidate Starts for Nehemiah_31:

(Start: 21 @32857 has 10 MA's), (25, 32896), (33, 32968), (35, 32995), (36, 33004), (42, 33046), (44, 33061), (46, 33073), (50, 33103), (Start: 60 @33124 has 1 MA's), (63, 33133), (75, 33181), (92, 33235), (94, 33238), (109, 33310), (127, 33361), (136, 33388), (144, 33415), (164, 33466), (174, 33502), (178, 33517), (195, 33556), (198, 33571), (224, 33646), (245, 33691), (247, 33697), (252, 33706), (280, 33778), (292, 33802), (298, 33829), (308, 33868), (314, 33904), (340, 34027), (362, 34117), (395, 34228), (412, 34348),

Gene: Nenae_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Nenae_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Neos5_33 Start: 33020, Stop: 34222, Start Num: 57

Candidate Starts for Neos5_33:

(Start: 57 @33020 has 97 MA's), (72, 33053), (109, 33197), (112, 33206), (115, 33215), (132, 33254), (135, 33263), (142, 33281), (146, 33299), (150, 33317), (153, 33323), (160, 33335), (166, 33353), (170, 33368), (190, 33401), (198, 33428), (212, 33473), (247, 33554), (261, 33581), (265, 33599), (275, 33617), (292, 33659), (297, 33683), (314, 33758), (319, 33788), (334, 33848), (336, 33860), (340, 33878), (363, 33980), (393, 34085), (395, 34091), (397, 34109), (409, 34196),

Gene: Nicholas_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for Nicholas_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565), (182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: Nigel_28 Start: 31491, Stop: 32651, Start Num: 59

Candidate Starts for Nigel_28:

(15, 30987), (Start: 59 @31491 has 52 MA's), (68, 31518), (91, 31602), (96, 31617), (99, 31629), (102, 31647), (148, 31788), (153, 31797), (162, 31815), (170, 31842), (184, 31857), (190, 31863), (193, 31869), (198, 31887), (204, 31902), (206, 31911), (216, 31944), (244, 31977), (249, 31989), (252, 31995), (280, 32067), (292, 32073), (310, 32163), (313, 32172), (348, 32319), (384, 32472),

Gene: NovoPizza_24 Start: 24478, Stop: 25725, Start Num: 60

Candidate Starts for NovoPizza_24:

(1, 22918), (2, 23035), (3, 23296), (5, 23614), (12, 23929), (13, 23953), (18, 24055), (48, 24454), (Start: 60 @24478 has 1 MA's), (63, 24487), (79, 24550), (98, 24616), (109, 24661), (110, 24664), (145, 24763), (161, 24805), (195, 24916), (197, 24925), (248, 25054), (308, 25195), (311, 25216), (334, 25321), (335, 25324), (340, 25348), (366, 25462), (401, 25615), (411, 25705),

Gene: Nozo_33 Start: 32981, Stop: 34183, Start Num: 57

Candidate Starts for Nozo_33:

(Start: 57 @32981 has 97 MA's), (72, 33014), (109, 33158), (112, 33167), (115, 33176), (132, 33215), (135, 33224), (142, 33242), (146, 33260), (150, 33278), (153, 33284), (160, 33296), (166, 33314), (170, 33329), (190, 33362), (198, 33389), (212, 33434), (247, 33515), (261, 33542), (265, 33560), (275, 33578), (292, 33620), (297, 33644), (314, 33719), (319, 33749), (334, 33809), (336, 33821), (340, 33839), (363, 33941), (393, 34046), (395, 34052), (397, 34070), (409, 34157),

Gene: OBUpride_27 Start: 23365, Stop: 24603, Start Num: 57

Candidate Starts for OBUpride_27:

(9, 22753), (11, 22819), (16, 22909), (17, 22912), (20, 23062), (23, 23149), (24, 23152), (41, 23290), (Start: 57 @23365 has 97 MA's), (86, 23461), (93, 23488), (95, 23494), (103, 23533), (105, 23542), (Start: 123 @23587 has 3 MA's), (128, 23599), (141, 23638), (161, 23695), (175, 23746), (177, 23761), (193, 23800), (205, 23833), (211, 23854), (213, 23860), (228, 23896), (235, 23908), (237, 23911), (258, 23959), (265, 23965), (267, 23968), (272, 23977), (312, 24115), (334, 24208), (349, 24265), (350, 24271), (367, 24355), (371, 24370), (372, 24373), (391, 24439), (396, 24472),

Gene: Obutu_33 Start: 32205, Stop: 33407, Start Num: 57

Candidate Starts for Obutu_33:

(Start: 57 @32205 has 97 MA's), (72, 32238), (109, 32382), (112, 32391), (115, 32400), (132, 32439), (135, 32448), (142, 32466), (158, 32517), (162, 32526), (166, 32538), (168, 32544), (170, 32553), (195, 32598), (198, 32613), (212, 32658), (243, 32727), (249, 32742), (254, 32754), (263, 32778), (284, 32826), (289, 32832), (291, 32838), (292, 32844), (297, 32868), (314, 32943), (319, 32973), (334, 33033), (336, 33045), (340, 33063), (362, 33162), (363, 33165), (393, 33270), (395, 33276), (397, 33294), (409, 33381),

Gene: OhShagHennessy_21 Start: 21653, Stop: 22825, Start Num: 59

Candidate Starts for OhShagHennessy_21:

(Start: 57 @21650 has 97 MA's), (Start: 59 @21653 has 52 MA's), (Start: 97 @21779 has 1 MA's), (107, 21821), (111, 21833), (112, 21836), (127, 21869), (131, 21881), (146, 21929), (150, 21947), (166, 21983), (170, 21998), (194, 22049), (205, 22079), (217, 22121), (231, 22145), (272, 22181), (275, 22187), (287, 22214), (292, 22232), (314, 22325), (315, 22328), (333, 22412), (364, 22550), (370, 22568), (393, 22652),

Gene: Olivio_32 Start: 32074, Stop: 33276, Start Num: 57

Candidate Starts for Olivio_32:

(Start: 57 @32074 has 97 MA's), (72, 32107), (109, 32251), (112, 32260), (115, 32269), (132, 32308), (135, 32317), (142, 32335), (146, 32353), (150, 32371), (153, 32377), (160, 32389), (166, 32407), (170, 32422), (190, 32455), (198, 32482), (212, 32527), (247, 32608), (261, 32635), (265, 32653), (275, 32671), (292, 32713), (297, 32737), (314, 32812), (319, 32842), (334, 32902), (336, 32914), (340, 32932), (362, 33031), (363, 33034), (393, 33139), (395, 33145), (397, 33163), (409, 33250),

Gene: Opia_33 Start: 32684, Stop: 33847, Start Num: 56

Candidate Starts for Opia_33:

(31, 32537), (Start: 51 @32678 has 10 MA's), (Start: 56 @32684 has 79 MA's), (72, 32723), (77, 32753), (91, 32798), (102, 32843), (139, 32942), (160, 33002), (170, 33038), (180, 33062), (200, 33107), (203, 33113), (220, 33164), (241, 33203), (247, 33206), (256, 33218), (270, 33233), (280, 33257), (294, 33290), (312, 33371), (334, 33464), (342, 33500), (345, 33509), (348, 33515), (402, 33740),

Gene: OrangeOswald_33 Start: 32222, Stop: 33424, Start Num: 57

Candidate Starts for OrangeOswald_33:

(Start: 57 @32222 has 97 MA's), (72, 32255), (109, 32399), (112, 32408), (115, 32417), (132, 32456), (135, 32465), (142, 32483), (146, 32501), (150, 32519), (153, 32525), (160, 32537), (166, 32555),

(170, 32570), (190, 32603), (198, 32630), (212, 32675), (247, 32756), (261, 32783), (265, 32801), (275, 32819), (292, 32861), (297, 32885), (314, 32960), (319, 32990), (334, 33050), (336, 33062), (340, 33080), (363, 33182), (393, 33287), (395, 33293), (397, 33311), (409, 33398),

Gene: Orion_33 Start: 32366, Stop: 33526, Start Num: 56

Candidate Starts for Orion_33:

(Start: 56 @32366 has 79 MA's), (91, 32477), (102, 32522), (139, 32621), (160, 32681), (170, 32717), (180, 32741), (200, 32786), (203, 32792), (220, 32843), (241, 32882), (247, 32885), (256, 32897), (270, 32912), (280, 32936), (294, 32969), (312, 33050), (323, 33095), (334, 33143), (342, 33179), (345, 33188), (348, 33194), (402, 33419),

Gene: P3MA_24 Start: 20823, Stop: 21977, Start Num: 59

Candidate Starts for P3MA_24:

(Start: 59 @20823 has 52 MA's), (99, 20955), (100, 20958), (111, 21003), (112, 21006), (117, 21015), (127, 21039), (140, 21075), (141, 21078), (142, 21081), (163, 21141), (170, 21168), (187, 21201), (194, 21219), (230, 21315), (233, 21321), (264, 21336), (286, 21381), (309, 21471), (310, 21489), (348, 21645), (360, 21711),

Gene: PG1_33 Start: 32379, Stop: 33539, Start Num: 56

Candidate Starts for PG1_33:

(Start: 56 @32379 has 79 MA's), (91, 32490), (102, 32535), (139, 32634), (160, 32694), (170, 32730), (180, 32754), (200, 32799), (203, 32805), (220, 32856), (241, 32895), (247, 32898), (256, 32910), (270, 32925), (280, 32949), (294, 32982), (312, 33063), (323, 33108), (334, 33156), (342, 33192), (345, 33201), (348, 33207), (402, 33432),

Gene: PR_25 Start: 29919, Stop: 31133, Start Num: 52

Candidate Starts for PR_25:

(Start: 52 @29919 has 2 MA's), (Start: 57 @29925 has 97 MA's), (72, 29964), (91, 30039), (93, 30042), (101, 30075), (105, 30096), (109, 30108), (111, 30114), (115, 30126), (132, 30165), (133, 30168), (158, 30243), (166, 30264), (198, 30339), (212, 30384), (224, 30414), (245, 30459), (249, 30468), (252, 30474), (254, 30480), (263, 30504), (282, 30549), (292, 30570), (297, 30594), (314, 30669), (319, 30699), (334, 30759), (336, 30771), (340, 30789), (362, 30888), (363, 30891), (393, 30996), (395, 31002), (403, 31068), (404, 31071), (409, 31107),

Gene: PYPDinur_21 Start: 21427, Stop: 22581, Start Num: 59

Candidate Starts for PYPDinur_21:

(Start: 59 @21427 has 52 MA's), (90, 21529), (95, 21541), (112, 21610), (146, 21703), (166, 21757), (175, 21787), (182, 21796), (197, 21835), (214, 21883), (225, 21907), (230, 21919), (265, 21943), (292, 22003), (301, 22033), (329, 22150), (332, 22186), (334, 22195), (349, 22252), (354, 22291),

Gene: PenguinLover67_33 Start: 33434, Stop: 34648, Start Num: 55

Candidate Starts for PenguinLover67_33:

(Start: 55 @33434 has 9 MA's), (Start: 97 @33572 has 1 MA's), (113, 33632), (132, 33680), (133, 33683), (144, 33719), (148, 33740), (166, 33779), (173, 33803), (193, 33842), (206, 33881), (213, 33902), (219, 33920), (221, 33923), (313, 34136), (314, 34139), (327, 34184), (388, 34478),

Gene: Phaedrus_31 Start: 32138, Stop: 33340, Start Num: 57

Candidate Starts for Phaedrus_31:

(Start: 57 @32138 has 97 MA's), (72, 32171), (109, 32315), (112, 32324), (115, 32333), (132, 32372), (135, 32381), (142, 32399), (146, 32417), (150, 32435), (153, 32441), (160, 32453), (166, 32471), (170, 32486), (190, 32519), (198, 32546), (212, 32591), (247, 32672), (261, 32699), (265, 32717), (275, 32735), (292, 32777), (319, 32906), (340, 32996), (363, 33098), (380, 33155), (383, 33164), (393, 33203), (403, 33275), (410, 33317),

Gene: PhancyPhin_21 Start: 19874, Stop: 21028, Start Num: 66

Candidate Starts for PhancyPhin_21:

(27, 19637), (29, 19679), (34, 19709), (37, 19739), (45, 19799), (Start: 55 @19853 has 9 MA's), (Start: 66 @19874 has 20 MA's), (79, 19937), (84, 19955), (Start: 97 @20003 has 1 MA's), (113, 20063), (119, 20072), (125, 20087), (133, 20111), (142, 20135), (144, 20147), (170, 20222), (173, 20231), (182, 20255), (194, 20285), (209, 20330), (210, 20333), (212, 20339), (252, 20369), (253, 20372), (263, 20393), (312, 20552), (332, 20642), (334, 20651), (340, 20681), (348, 20702), (410, 21005),

Gene: Phantasmagoria_33 Start: 32695, Stop: 33858, Start Num: 56

Candidate Starts for Phantasmagoria_33:

(Start: 51 @32689 has 10 MA's), (Start: 56 @32695 has 79 MA's), (72, 32734), (77, 32764), (91, 32809), (102, 32854), (139, 32953), (160, 33013), (170, 33049), (180, 33073), (200, 33118), (203, 33124), (220, 33175), (241, 33214), (247, 33217), (256, 33229), (270, 33244), (280, 33268), (294, 33301), (312, 33382), (323, 33427), (334, 33475), (342, 33511), (345, 33520), (348, 33526), (402, 33751),

Gene: Phareon_33 Start: 32078, Stop: 33238, Start Num: 56

Candidate Starts for Phareon_33:

(Start: 56 @32078 has 79 MA's), (91, 32189), (102, 32234), (139, 32333), (160, 32393), (170, 32429), (180, 32453), (200, 32498), (203, 32504), (220, 32555), (241, 32594), (247, 32597), (256, 32609), (270, 32624), (280, 32648), (294, 32681), (312, 32762), (323, 32807), (334, 32855), (342, 32891), (345, 32900), (348, 32906), (402, 33131),

Gene: PhatCats2014_33 Start: 32383, Stop: 33543, Start Num: 56

Candidate Starts for PhatCats2014_33:

(Start: 56 @32383 has 79 MA's), (91, 32494), (102, 32539), (139, 32638), (160, 32698), (170, 32734), (180, 32758), (200, 32803), (203, 32809), (220, 32860), (241, 32899), (247, 32902), (256, 32914), (270, 32929), (280, 32953), (294, 32986), (312, 33067), (323, 33112), (334, 33160), (342, 33196), (345, 33205), (348, 33211), (402, 33436),

Gene: Phelemich_32 Start: 32856, Stop: 34361, Start Num: 21

Candidate Starts for Phelemich_32:

(Start: 21 @32856 has 10 MA's), (25, 32895), (33, 32967), (35, 32994), (42, 33045), (44, 33060), (46, 33072), (50, 33102), (Start: 60 @33123 has 1 MA's), (63, 33132), (92, 33234), (94, 33237), (109, 33309), (127, 33360), (136, 33387), (144, 33414), (164, 33465), (174, 33501), (178, 33516), (195, 33555), (198, 33570), (224, 33645), (245, 33690), (247, 33696), (252, 33705), (280, 33777), (292, 33801), (298, 33828), (308, 33867), (314, 33903), (393, 34221), (395, 34227), (412, 34347),

Gene: Philly_32 Start: 32073, Stop: 33275, Start Num: 57

Candidate Starts for Philly_32:

(Start: 57 @32073 has 97 MA's), (109, 32250), (112, 32259), (115, 32268), (132, 32307), (135, 32316), (142, 32334), (146, 32352), (150, 32370), (153, 32376), (160, 32388), (166, 32406), (170, 32421), (190, 32454), (198, 32481), (212, 32526), (247, 32607), (261, 32634), (265, 32652), (275, 32670), (292, 32712), (297, 32736), (314, 32811), (319, 32841), (334, 32901), (336, 32913), (340, 32931), (363, 33033), (393, 33138), (395, 33144), (397, 33162), (409, 33249),

Gene: Phloss_21 Start: 20203, Stop: 21360, Start Num: 65

Candidate Starts for Phloss_21:

(Start: 65 @20203 has 3 MA's), (84, 20284), (Start: 97 @20332 has 1 MA's), (113, 20392), (119, 20401), (125, 20416), (133, 20440), (142, 20464), (144, 20476), (166, 20536), (170, 20551), (173, 20560), (182, 20584), (189, 20599), (194, 20614), (252, 20698), (253, 20701), (263, 20722), (273, 20743), (278, 20752), (280, 20764), (287, 20773), (348, 21034), (359, 21103), (410, 21337),

Gene: Phlyer_33 Start: 32957, Stop: 34159, Start Num: 57

Candidate Starts for Phlyer_33:

(Start: 57 @32957 has 97 MA's), (72, 32990), (109, 33134), (112, 33143), (115, 33152), (132, 33191), (135, 33200), (142, 33218), (146, 33236), (150, 33254), (153, 33260), (160, 33272), (166, 33290), (170, 33305), (190, 33338), (198, 33365), (212, 33410), (247, 33491), (261, 33518), (265, 33536), (275, 33554), (292, 33596), (319, 33725), (340, 33815), (363, 33917), (380, 33974), (383, 33983), (393, 34022), (403, 34094), (410, 34136),

Gene: Piglet_0032 Start: 32482, Stop: 33642, Start Num: 56

Candidate Starts for Piglet_0032:

(Start: 56 @32482 has 79 MA's), (91, 32593), (102, 32638), (139, 32737), (160, 32797), (170, 32833), (180, 32857), (200, 32902), (203, 32908), (220, 32959), (241, 32998), (247, 33001), (256, 33013), (270, 33028), (280, 33052), (294, 33085), (312, 33166), (323, 33211), (334, 33259), (342, 33295), (345, 33304), (348, 33310), (402, 33535),

Gene: Pinkman_32 Start: 31931, Stop: 33091, Start Num: 56

Candidate Starts for Pinkman_32:

(Start: 56 @31931 has 79 MA's), (91, 32042), (102, 32087), (139, 32186), (160, 32246), (170, 32282), (180, 32306), (200, 32351), (203, 32357), (220, 32408), (241, 32447), (247, 32450), (256, 32462), (270, 32477), (280, 32501), (294, 32534), (312, 32615), (323, 32660), (334, 32708), (342, 32744), (345, 32753), (348, 32759), (402, 32984),

Gene: Pippy_19 Start: 20253, Stop: 21410, Start Num: 64

Candidate Starts for Pippy_19:

(Start: 62 @20250 has 3 MA's), (Start: 64 @20253 has 2 MA's), (84, 20334), (Start: 97 @20382 has 1 MA's), (113, 20442), (119, 20451), (125, 20466), (133, 20490), (142, 20514), (144, 20526), (166, 20586), (170, 20601), (173, 20610), (182, 20634), (194, 20664), (252, 20748), (253, 20751), (263, 20772), (273, 20793), (278, 20802), (280, 20814), (287, 20823), (348, 21084), (359, 21153), (410, 21387),

Gene: Pipsqueak_33 Start: 32373, Stop: 33533, Start Num: 56

Candidate Starts for Pipsqueak_33:

(Start: 56 @32373 has 79 MA's), (91, 32484), (102, 32529), (139, 32628), (160, 32688), (170, 32724), (180, 32748), (200, 32793), (203, 32799), (220, 32850), (241, 32889), (247, 32892), (256, 32904), (270, 32919), (280, 32943), (294, 32976), (312, 33057), (323, 33102), (334, 33150), (342, 33186), (345, 33195), (348, 33201), (402, 33426),

Gene: Pochiewood_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Pochiewood_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: Pops_33 Start: 32387, Stop: 33547, Start Num: 56

Candidate Starts for Pops_33:

(Start: 56 @32387 has 79 MA's), (91, 32498), (102, 32543), (139, 32642), (160, 32702), (170, 32738), (180, 32762), (200, 32807), (203, 32813), (220, 32864), (241, 32903), (247, 32906), (256, 32918), (270, 32933), (280, 32957), (294, 32990), (312, 33071), (323, 33116), (334, 33164), (342, 33200), (345, 33209), (348, 33215), (402, 33440),

Gene: Poster_29 Start: 31578, Stop: 32735, Start Num: 57

Candidate Starts for Poster_29:

(Start: 57 @31578 has 97 MA's), (Start: 88 @31671 has 6 MA's), (91, 31686), (96, 31701), (99, 31713), (102, 31731), (135, 31821), (148, 31872), (153, 31881), (157, 31887), (162, 31899), (170, 31926), (184, 31941), (190, 31947), (193, 31953), (204, 31986), (206, 31995), (216, 32028), (244, 32061), (280, 32151), (292, 32157), (313, 32256), (314, 32259), (348, 32403), (384, 32556),

Gene: Prince_30 Start: 32761, Stop: 33918, Start Num: 57

Candidate Starts for Prince_30:

(Start: 57 @32761 has 97 MA's), (Start: 88 @32854 has 6 MA's), (91, 32869), (96, 32884), (99, 32896), (102, 32914), (116, 32956), (135, 33004), (148, 33055), (153, 33064), (162, 33082), (170, 33109), (184, 33124), (190, 33130), (193, 33136), (195, 33142), (204, 33169), (206, 33178), (216, 33211), (244, 33244), (269, 33304), (280, 33334), (292, 33340), (306, 33385), (313, 33439), (314, 33442), (348, 33586), (384, 33739),

Gene: PrinceCharming_33 Start: 32795, Stop: 33964, Start Num: 51

Candidate Starts for PrinceCharming_33:

(31, 32654), (Start: 51 @32795 has 10 MA's), (Start: 56 @32801 has 79 MA's), (72, 32840), (77, 32870), (91, 32915), (102, 32960), (139, 33059), (160, 33119), (170, 33155), (180, 33179), (200, 33224), (203, 33230), (220, 33281), (241, 33320), (247, 33323), (256, 33335), (270, 33350), (280, 33374), (294, 33407), (312, 33488), (334, 33581), (342, 33617), (345, 33626), (348, 33632), (402, 33857),

Gene: Pupper_126 Start: 83200, Stop: 84090, Start Num: 123

Candidate Starts for Pupper_126:

(Start: 123 @83200 has 3 MA's), (269, 83473), (348, 83770), (362, 83839), (393, 83935),

Gene: Purgamenstris_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Purgamenstris_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: QueenHazel_22 Start: 21423, Stop: 22634, Start Num: 66

Candidate Starts for QueenHazel_22:

(27, 21186), (29, 21228), (37, 21288), (45, 21348), (Start: 55 @21402 has 9 MA's), (Start: 66 @21423 has 20 MA's), (84, 21504), (Start: 97 @21552 has 1 MA's), (113, 21612), (119, 21621), (125, 21636), (133, 21660), (142, 21684), (144, 21696), (157, 21732), (170, 21771), (173, 21780), (182, 21804), (194, 21834), (225, 21918), (226, 21921), (238, 21942), (252, 21978), (253, 21981), (263, 22002), (280, 22044), (312, 22161), (320, 22197), (324, 22203), (348, 22308), (363, 22389),

Gene: QueenPie_29 Start: 32702, Stop: 33859, Start Num: 57

Candidate Starts for QueenPie_29:

(Start: 57 @32702 has 97 MA's), (Start: 88 @32795 has 6 MA's), (91, 32810), (96, 32825), (99, 32837), (102, 32855), (135, 32945), (148, 32996), (153, 33005), (162, 33023), (170, 33050), (184, 33065), (190, 33071), (193, 33077), (195, 33083), (204, 33110), (206, 33119), (216, 33152), (244, 33185), (252, 33203), (269, 33245), (280, 33275), (292, 33281), (296, 33302), (313, 33380), (314, 33383), (328, 33428), (348, 33527), (384, 33680),

Gene: Quesadilla_32 Start: 33335, Stop: 34516, Start Num: 55

Candidate Starts for Quesadilla_32:

(47, 33302), (Start: 55 @33335 has 9 MA's), (91, 33452), (96, 33467), (Start: 97 @33473 has 1 MA's), (113, 33533), (132, 33581), (141, 33605), (153, 33650), (169, 33689), (172, 33701), (175, 33710), (186, 33728), (203, 33770), (207, 33785), (221, 33824), (224, 33830), (250, 33875), (256, 33881), (284, 33926), (315, 34028),

Gene: Qyrzula_31 Start: 32776, Stop: 33981, Start Num: 54

Candidate Starts for Qyrzula_31:

(32, 32632), (Start: 52 @32773 has 2 MA's), (Start: 54 @32776 has 7 MA's), (78, 32845), (99, 32914), (105, 32944), (109, 32956), (111, 32962), (112, 32965), (115, 32974), (132, 33013), (135, 33022), (140, 33034), (158, 33091), (166, 33112), (170, 33127), (195, 33172), (198, 33187), (212, 33232), (243, 33301), (254, 33328), (263, 33352), (282, 33397), (292, 33418), (297, 33442), (314, 33517), (319, 33547), (334, 33607), (336, 33619), (340, 33637), (363, 33739), (393, 33844), (395, 33850), (397, 33868), (404, 33919), (409, 33955),

Gene: RagingRooster_33 Start: 32223, Stop: 33425, Start Num: 57

Candidate Starts for RagingRooster_33:

(Start: 57 @32223 has 97 MA's), (72, 32256), (109, 32400), (112, 32409), (115, 32418), (132, 32457), (135, 32466), (142, 32484), (146, 32502), (150, 32520), (153, 32526), (160, 32538), (166, 32556), (170, 32571), (190, 32604), (198, 32631), (212, 32676), (247, 32757), (261, 32784), (265, 32802), (275, 32820), (292, 32862), (297, 32886), (314, 32961), (319, 32991), (334, 33051), (336, 33063), (340, 33081), (363, 33183), (393, 33288), (395, 33294), (397, 33312), (409, 33399),

Gene: RawrgerThat_30 Start: 32607, Stop: 33764, Start Num: 57

Candidate Starts for RawrgerThat_30:

(Start: 57 @32607 has 97 MA's), (Start: 88 @32700 has 6 MA's), (91, 32715), (96, 32730), (99, 32742), (102, 32760), (116, 32802), (148, 32901), (153, 32910), (162, 32928), (170, 32955), (184, 32970), (190, 32976), (193, 32982), (195, 32988), (204, 33015), (206, 33024), (216, 33057), (244, 33090), (280, 33180), (292, 33186), (313, 33285), (314, 33288), (348, 33432), (384, 33585),

Gene: Reccee_33 Start: 32769, Stop: 34274, Start Num: 21

Candidate Starts for Reccee_33:

(Start: 21 @32769 has 10 MA's), (22, 32787), (25, 32808), (30, 32862), (40, 32940), (42, 32958), (44, 32973), (46, 32985), (109, 33222), (127, 33273), (136, 33300), (144, 33327), (174, 33414), (178, 33429), (195, 33468), (224, 33558), (245, 33603), (247, 33609), (252, 33618), (298, 33741), (308, 33780), (314, 33816), (395, 34140), (412, 34260),

Gene: Red305_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for Red305_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565), (182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: Redi_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Redi_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Rem711_30 Start: 25189, Stop: 26352, Start Num: 76

Candidate Starts for Rem711_30:

(Start: 76 @25189 has 2 MA's), (155, 25450), (174, 25510), (185, 25555), (192, 25573), (203, 25609), (260, 25717), (276, 25732), (296, 25789), (333, 25951), (365, 26101),

Gene: Renkei_29 Start: 31609, Stop: 32769, Start Num: 57

Candidate Starts for Renkei_29:

(Start: 57 @31609 has 97 MA's), (Start: 88 @31702 has 6 MA's), (91, 31717), (96, 31732), (99, 31744), (102, 31762), (112, 31795), (130, 31837), (148, 31903), (153, 31912), (162, 31930), (170, 31957), (190, 31978), (193, 31984), (194, 31987), (199, 32005), (206, 32029), (216, 32062), (249, 32107), (259, 32125), (269, 32155), (280, 32185), (292, 32191), (308, 32257), (313, 32290), (348, 32437), (384, 32590),

Gene: Reprobate_32 Start: 32861, Stop: 34366, Start Num: 21

Candidate Starts for Reprobate_32:

(Start: 21 @32861 has 10 MA's), (25, 32900), (33, 32972), (35, 32999), (42, 33050), (44, 33065), (46, 33077), (50, 33107), (Start: 60 @33128 has 1 MA's), (63, 33137), (92, 33239), (94, 33242), (109, 33314), (127, 33365), (136, 33392), (144, 33419), (164, 33470), (174, 33506), (178, 33521), (195, 33560), (198, 33575), (224, 33650), (245, 33695), (247, 33701), (252, 33710), (280, 33782), (292, 33806), (298, 33833), (308, 33872), (314, 33908), (393, 34226), (395, 34232), (412, 34352),

Gene: Rey_35 Start: 28073, Stop: 29155, Start Num: 88

Candidate Starts for Rey_35:

(87, 28067), (Start: 88 @28073 has 6 MA's), (105, 28148), (122, 28193), (126, 28205), (132, 28223), (135, 28232), (148, 28283), (156, 28298), (167, 28322), (173, 28343), (203, 28403), (303, 28622), (395, 29024),

Gene: Rhinoforte_33 Start: 32804, Stop: 33967, Start Num: 56

Candidate Starts for Rhinoforte_33:

(31, 32657), (Start: 51 @32798 has 10 MA's), (Start: 56 @32804 has 79 MA's), (72, 32843), (77, 32873), (91, 32918), (102, 32963), (139, 33062), (160, 33122), (170, 33158), (180, 33182), (200, 33227), (203, 33233), (220, 33284), (241, 33323), (247, 33326), (256, 33338), (270, 33353), (280, 33377), (294, 33410), (312, 33491), (323, 33536), (334, 33584), (342, 33620), (345, 33629), (348, 33635), (361, 33695), (402, 33860),

Gene: Rich_31 Start: 32367, Stop: 33872, Start Num: 21

Candidate Starts for Rich_31:

(Start: 21 @32367 has 10 MA's), (22, 32385), (25, 32406), (30, 32460), (33, 32478), (39, 32529), (42, 32556), (44, 32571), (127, 32871), (136, 32898), (144, 32925), (168, 32991), (174, 33012), (178, 33027), (195, 33066), (224, 33156), (239, 33183), (242, 33192), (252, 33216), (292, 33312), (298, 33339), (308, 33378), (314, 33414), (340, 33537), (366, 33642), (395, 33738), (397, 33756), (412, 33858),

Gene: Rimu_33 Start: 32105, Stop: 33265, Start Num: 56

Candidate Starts for Rimu_33:

(Start: 56 @32105 has 79 MA's), (91, 32216), (102, 32261), (139, 32360), (160, 32420), (170, 32456), (180, 32480), (200, 32525), (203, 32531), (220, 32582), (241, 32621), (247, 32624), (256, 32636), (270, 32651), (280, 32675), (294, 32708), (312, 32789), (323, 32834), (334, 32882), (342, 32918), (345, 32927), (348, 32933), (402, 33158),

Gene: Rinkes_34 Start: 33816, Stop: 35012, Start Num: 59

Candidate Starts for Rinkes_34:

(43, 33759), (49, 33795), (Start: 59 @33816 has 52 MA's), (73, 33861), (82, 33906), (91, 33939), (98, 33963), (102, 33984), (106, 33999), (108, 34005), (125, 34044), (127, 34050), (132, 34065), (135,

34074), (146, 34110), (149, 34125), (154, 34134), (165, 34161), (166, 34164), (173, 34188), (175, 34194), (191, 34251), (193, 34254), (207, 34302), (208, 34305), (212, 34317), (223, 34344), (227, 34353), (229, 34356), (246, 34380), (274, 34431), (291, 34470), (294, 34491), (310, 34563), (312, 34569), (339, 34677), (343, 34698), (348, 34710), (374, 34812), (379, 34821), (401, 34914),

Gene: Rita130_32 Start: 32589, Stop: 34094, Start Num: 21

Candidate Starts for Rita130_32:

(Start: 21 @32589 has 10 MA's), (22, 32607), (25, 32628), (30, 32682), (40, 32760), (42, 32778), (44, 32793), (46, 32805), (109, 33042), (127, 33093), (136, 33120), (144, 33147), (174, 33234), (178, 33249), (195, 33288), (224, 33378), (252, 33438), (298, 33561), (308, 33600), (314, 33636), (395, 33960), (412, 34080),

Gene: Rita1961_33 Start: 32206, Stop: 33408, Start Num: 57

Candidate Starts for Rita1961_33:

(Start: 57 @32206 has 97 MA's), (72, 32239), (109, 32383), (112, 32392), (115, 32401), (132, 32440), (135, 32449), (142, 32467), (158, 32518), (162, 32527), (166, 32539), (168, 32545), (170, 32554), (195, 32599), (198, 32614), (212, 32659), (243, 32728), (249, 32743), (254, 32755), (263, 32779), (284, 32827), (289, 32833), (291, 32839), (292, 32845), (297, 32869), (314, 32944), (319, 32974), (334, 33034), (336, 33046), (340, 33064), (362, 33163), (363, 33166), (393, 33271), (395, 33277), (397, 33295), (409, 33382),

Gene: RomaT_33 Start: 32996, Stop: 34198, Start Num: 57

Candidate Starts for RomaT_33:

(Start: 57 @32996 has 97 MA's), (72, 33029), (109, 33173), (112, 33182), (115, 33191), (132, 33230), (135, 33239), (142, 33257), (146, 33275), (150, 33293), (153, 33299), (160, 33311), (166, 33329), (170, 33344), (190, 33377), (198, 33404), (212, 33449), (247, 33530), (261, 33557), (265, 33575), (275, 33593), (292, 33635), (297, 33659), (314, 33734), (319, 33764), (334, 33824), (336, 33836), (340, 33854), (363, 33956), (393, 34061), (395, 34067), (397, 34085), (409, 34172),

Gene: Rose5_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Rose5_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: RoseMarie_32 Start: 29180, Stop: 30352, Start Num: 59

Candidate Starts for RoseMarie_32:

(Start: 54 @29174 has 7 MA's), (Start: 59 @29180 has 52 MA's), (91, 29288), (99, 29315), (117, 29375), (125, 29393), (135, 29423), (142, 29441), (144, 29453), (161, 29495), (170, 29528), (185, 29558), (208, 29621), (214, 29639), (263, 29693), (281, 29735), (286, 29741), (290, 29753), (306, 29804), (341, 29981),

Gene: Rosebush_33 Start: 32811, Stop: 33974, Start Num: 56

Candidate Starts for Rosebush_33:

(31, 32664), (Start: 51 @32805 has 10 MA's), (Start: 56 @32811 has 79 MA's), (72, 32850), (77, 32880), (91, 32925), (102, 32970), (139, 33069), (160, 33129), (170, 33165), (180, 33189), (200, 33234), (203, 33240), (220, 33291), (241, 33330), (247, 33333), (256, 33345), (270, 33360), (280, 33384), (294, 33417), (312, 33498), (334, 33591), (342, 33627), (345, 33636), (348, 33642), (361, 33702), (402, 33867),

Gene: SCentae_125 Start: 83353, Stop: 84243, Start Num: 123

Candidate Starts for SCentae_125:
(Start: 123 @83353 has 3 MA's), (393, 84088),

Gene: Saguaro_32 Start: 33436, Stop: 34548, Start Num: 55

Candidate Starts for Saguaro_32:
(26, 33223), (47, 33406), (Start: 55 @33436 has 9 MA's), (91, 33550), (99, 33577), (106, 33610), (111, 33625), (113, 33631), (132, 33679), (135, 33688), (159, 33757), (166, 33778), (173, 33802), (175, 33808), (206, 33883), (208, 33889), (214, 33907), (216, 33916), (221, 33925), (224, 33931), (304, 34051), (362, 34303), (394, 34411), (395, 34417),

Gene: Samty_22 Start: 22250, Stop: 23467, Start Num: 59

Candidate Starts for Samty_22:
(Start: 59 @22250 has 52 MA's), (90, 22352), (95, 22364), (99, 22382), (101, 22391), (111, 22430), (127, 22466), (132, 22481), (134, 22487), (143, 22517), (144, 22520), (157, 22556), (163, 22568), (182, 22619), (184, 22622), (206, 22682), (215, 22709), (222, 22724), (225, 22730), (230, 22742), (259, 22802), (265, 22826), (292, 22886), (313, 22982), (318, 23015), (337, 23087), (342, 23111), (348, 23126), (398, 23339), (399, 23351),

Gene: Sarma624_20 Start: 20090, Stop: 21244, Start Num: 66

Candidate Starts for Sarma624_20:
(Start: 62 @20087 has 3 MA's), (Start: 66 @20090 has 20 MA's), (Start: 97 @20219 has 1 MA's), (104, 20249), (113, 20279), (119, 20288), (125, 20303), (133, 20327), (142, 20351), (144, 20363), (170, 20438), (173, 20447), (182, 20471), (194, 20501), (252, 20585), (253, 20588), (263, 20609), (332, 20858), (334, 20867), (340, 20897), (348, 20918), (359, 20987), (410, 21221),

Gene: Scoot17C_33 Start: 32368, Stop: 33528, Start Num: 56

Candidate Starts for Scoot17C_33:
(Start: 56 @32368 has 79 MA's), (91, 32479), (102, 32524), (139, 32623), (160, 32683), (170, 32719), (180, 32743), (200, 32788), (203, 32794), (220, 32845), (241, 32884), (247, 32887), (256, 32899), (270, 32914), (280, 32938), (294, 32971), (312, 33052), (323, 33097), (334, 33145), (342, 33181), (345, 33190), (348, 33196), (402, 33421),

Gene: Sejanus_28 Start: 29684, Stop: 30844, Start Num: 56

Candidate Starts for Sejanus_28:
(Start: 56 @29684 has 79 MA's), (70, 29720), (77, 29753), (91, 29798), (102, 29843), (103, 29846), (170, 30038), (180, 30062), (183, 30068), (203, 30113), (204, 30116), (220, 30164), (266, 30227), (268, 30230), (285, 30263), (308, 30338), (312, 30368), (340, 30491), (343, 30500), (345, 30506), (411, 30827),

Gene: Serendipitous_31 Start: 32443, Stop: 33945, Start Num: 21

Candidate Starts for Serendipitous_31:
(Start: 21 @32443 has 10 MA's), (22, 32461), (24, 32473), (25, 32482), (30, 32536), (33, 32554), (42, 32632), (44, 32647), (46, 32659), (75, 32767), (89, 32815), (95, 32827), (116, 32920), (127, 32947), (133, 32965), (136, 32974), (140, 32983), (144, 33001), (164, 33052), (168, 33067), (174, 33088), (195, 33139), (221, 33223), (224, 33229), (238, 33253), (245, 33274), (259, 33301), (292, 33385), (298, 33412), (308, 33451), (314, 33487), (362, 33700), (395, 33811), (412, 33931),

Gene: Serendipity_33 Start: 32393, Stop: 33553, Start Num: 56

Candidate Starts for Serendipity_33:
(Start: 56 @32393 has 79 MA's), (91, 32504), (102, 32549), (139, 32648), (160, 32708), (170, 32744), (180, 32768), (200, 32813), (203, 32819), (220, 32870), (241, 32909), (247, 32912), (256, 32924), (270, 32939), (280, 32963), (294, 32996), (312, 33077), (323, 33122), (334, 33170), (342, 33206), (345, 33215), (348, 33221), (402, 33446),

Gene: Shenandoah_33 Start: 32195, Stop: 33397, Start Num: 57

Candidate Starts for Shenandoah_33:

(Start: 57 @32195 has 97 MA's), (72, 32228), (109, 32372), (112, 32381), (115, 32390), (132, 32429), (135, 32438), (142, 32456), (146, 32474), (150, 32492), (153, 32498), (160, 32510), (166, 32528), (170, 32543), (190, 32576), (198, 32603), (212, 32648), (247, 32729), (261, 32756), (265, 32774), (275, 32792), (292, 32834), (297, 32858), (314, 32933), (319, 32963), (334, 33023), (336, 33035), (340, 33053), (363, 33155), (393, 33260), (395, 33266), (397, 33284), (409, 33371),

Gene: Sheng711_21 Start: 21427, Stop: 22581, Start Num: 59

Candidate Starts for Sheng711_21:

(Start: 59 @21427 has 52 MA's), (90, 21529), (95, 21541), (112, 21610), (146, 21703), (166, 21757), (175, 21787), (182, 21796), (197, 21835), (214, 21883), (225, 21907), (230, 21919), (265, 21943), (301, 22033), (329, 22150), (332, 22186), (334, 22195), (349, 22252), (354, 22291),

Gene: Shenyu_32 Start: 32544, Stop: 34049, Start Num: 21

Candidate Starts for Shenyu_32:

(Start: 21 @32544 has 10 MA's), (25, 32583), (33, 32655), (40, 32715), (42, 32733), (44, 32748), (110, 33000), (121, 33030), (127, 33048), (136, 33075), (144, 33102), (178, 33204), (195, 33243), (198, 33258), (224, 33333), (245, 33378), (247, 33384), (252, 33393), (292, 33489), (308, 33555), (314, 33591), (362, 33804), (395, 33915), (412, 34035),

Gene: ShrimpFriedEgg_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for ShrimpFriedEgg_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Silverleaf_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Silverleaf_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: SirJeffery_32 Start: 32588, Stop: 34093, Start Num: 21

Candidate Starts for SirJeffery_32:

(Start: 21 @32588 has 10 MA's), (22, 32606), (25, 32627), (30, 32681), (40, 32759), (42, 32777), (44, 32792), (46, 32804), (109, 33041), (127, 33092), (136, 33119), (144, 33146), (174, 33233), (178, 33248), (195, 33287), (224, 33377), (252, 33437), (298, 33560), (308, 33599), (314, 33635), (395, 33959), (412, 34079),

Gene: SlippinJimmy_33 Start: 32984, Stop: 34186, Start Num: 57

Candidate Starts for SlippinJimmy_33:

(Start: 57 @32984 has 97 MA's), (72, 33017), (109, 33161), (112, 33170), (115, 33179), (132, 33218), (135, 33227), (142, 33245), (146, 33263), (150, 33281), (153, 33287), (160, 33299), (166, 33317), (170, 33332), (190, 33365), (198, 33392), (212, 33437), (247, 33518), (261, 33545), (265, 33563), (275, 33581), (292, 33623), (319, 33752), (326, 33761), (340, 33842), (363, 33944), (380, 34001), (383, 34010), (393, 34049), (403, 34121), (410, 34163),

Gene: Snekmaggedon_21 Start: 20006, Stop: 21031, Start Num: 97

Candidate Starts for Snekmaggedon_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Snenia_22 Start: 22248, Stop: 23465, Start Num: 59

Candidate Starts for Snenia_22:

(Start: 59 @22248 has 52 MA's), (90, 22350), (95, 22362), (99, 22380), (101, 22389), (111, 22428), (127, 22464), (132, 22479), (134, 22485), (143, 22515), (144, 22518), (157, 22554), (163, 22566), (182, 22617), (184, 22620), (206, 22680), (215, 22707), (222, 22722), (225, 22728), (230, 22740), (259, 22800), (265, 22824), (292, 22884), (313, 22980), (318, 23013), (337, 23085), (342, 23109), (398, 23337), (399, 23349),

Gene: Solosis_32 Start: 32084, Stop: 33244, Start Num: 56

Candidate Starts for Solosis_32:

(Start: 56 @32084 has 79 MA's), (91, 32195), (102, 32240), (139, 32339), (160, 32399), (170, 32435), (180, 32459), (200, 32504), (203, 32510), (220, 32561), (241, 32600), (247, 32603), (256, 32615), (270, 32630), (280, 32654), (294, 32687), (312, 32768), (323, 32813), (334, 32861), (342, 32897), (345, 32906), (348, 32912), (402, 33137),

Gene: SororFago_32 Start: 24455, Stop: 25399, Start Num: 59

Candidate Starts for SororFago_32:

(Start: 59 @24455 has 52 MA's), (96, 24578), (104, 24614), (132, 24689), (150, 24752), (153, 24758), (166, 24791), (208, 24893),

Gene: Spinach_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for Spinach_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (79, 19940), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (209, 20333), (210, 20336), (212, 20342), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: SpongeBob_21 Start: 19877, Stop: 21031, Start Num: 66

Candidate Starts for SpongeBob_21:

(27, 19640), (29, 19682), (34, 19712), (37, 19742), (45, 19802), (Start: 55 @19856 has 9 MA's), (Start: 66 @19877 has 20 MA's), (84, 19958), (Start: 97 @20006 has 1 MA's), (113, 20066), (119, 20075), (125, 20090), (133, 20114), (142, 20138), (144, 20150), (170, 20225), (173, 20234), (182, 20258), (194, 20288), (252, 20372), (253, 20375), (263, 20396), (312, 20555), (332, 20645), (334, 20654), (340, 20684), (348, 20705), (410, 21008),

Gene: Squirty_20 Start: 19922, Stop: 21079, Start Num: 65

Candidate Starts for Squirty_20:

(Start: 65 @19922 has 3 MA's), (84, 20003), (91, 20030), (Start: 97 @20051 has 1 MA's), (113, 20111), (125, 20135), (127, 20141), (133, 20159), (137, 20171), (142, 20183), (144, 20195), (157, 20231), (166, 20255), (170, 20270), (173, 20279), (182, 20303), (189, 20318), (194, 20333), (252, 20417), (253, 20420), (263, 20441), (273, 20462), (278, 20471), (280, 20483), (287, 20492), (348, 20753), (359, 20822), (410, 21056),

Gene: Stargaze_23 Start: 23284, Stop: 24429, Start Num: 59

Candidate Starts for Stargaze_23:

(6, 22495), (10, 22654), (13, 22762), (18, 22864), (48, 23260), (Start: 59 @23284 has 52 MA's), (91, 23395), (96, 23410), (132, 23521), (151, 23584), (160, 23599), (215, 23746), (223, 23761), (265, 23812), (279, 23845), (302, 23908), (310, 23959), (313, 23968), (351, 24136),

Gene: Sticker17_30 Start: 38098, Stop: 39000, Start Num: 129

Candidate Starts for Sticker17_30:

(Start: 129 @38098 has 2 MA's), (182, 38236), (209, 38305), (257, 38353), (283, 38416), (295, 38452), (332, 38620), (395, 38854), (397, 38872), (410, 38977),

Gene: Stinger_28 Start: 31182, Stop: 32339, Start Num: 59

Candidate Starts for Stinger_28:

(14, 30657), (15, 30678), (Start: 59 @31182 has 52 MA's), (68, 31209), (91, 31290), (96, 31305), (99, 31317), (102, 31335), (142, 31443), (148, 31476), (153, 31485), (162, 31503), (170, 31530), (184, 31545), (190, 31551), (193, 31557), (200, 31581), (204, 31590), (206, 31599), (216, 31632), (244, 31665), (249, 31677), (252, 31683), (278, 31743), (280, 31755), (292, 31761), (308, 31827), (310, 31851), (313, 31860), (348, 32007), (384, 32160),

Gene: StinkyVeggy_34 Start: 32734, Stop: 34239, Start Num: 21

Candidate Starts for StinkyVeggy_34:

(Start: 21 @32734 has 10 MA's), (25, 32773), (33, 32845), (40, 32905), (42, 32923), (44, 32938), (110, 33190), (121, 33220), (127, 33238), (136, 33265), (144, 33292), (178, 33394), (195, 33433), (198, 33448), (224, 33523), (245, 33568), (247, 33574), (252, 33583), (292, 33679), (308, 33745), (314, 33781), (362, 33994), (395, 34105), (412, 34225),

Gene: Stuck_25 Start: 21224, Stop: 22435, Start Num: 66

Candidate Starts for Stuck_25:

(Start: 66 @21224 has 20 MA's), (84, 21305), (Start: 97 @21353 has 1 MA's), (104, 21383), (113, 21413), (119, 21422), (125, 21437), (127, 21443), (133, 21461), (142, 21485), (144, 21497), (157, 21533), (170, 21572), (173, 21581), (182, 21605), (191, 21626), (194, 21635), (226, 21722), (238, 21743), (252, 21779), (253, 21782), (263, 21803), (280, 21845), (312, 21962), (320, 21998), (324, 22004), (348, 22109),

Gene: Suigeneris_32 Start: 32591, Stop: 34096, Start Num: 21

Candidate Starts for Suigeneris_32:

(Start: 21 @32591 has 10 MA's), (22, 32609), (25, 32630), (30, 32684), (40, 32762), (42, 32780), (44, 32795), (46, 32807), (109, 33044), (127, 33095), (136, 33122), (144, 33149), (174, 33236), (178, 33251), (195, 33290), (224, 33380), (252, 33440), (298, 33563), (308, 33602), (314, 33638), (395, 33962), (412, 34082),

Gene: SwainyDoc_33 Start: 32217, Stop: 33419, Start Num: 57

Candidate Starts for SwainyDoc_33:

(Start: 57 @32217 has 97 MA's), (72, 32250), (109, 32394), (112, 32403), (115, 32412), (132, 32451), (135, 32460), (142, 32478), (146, 32496), (150, 32514), (153, 32520), (160, 32532), (166, 32550), (170, 32565), (190, 32598), (198, 32625), (212, 32670), (247, 32751), (261, 32778), (265, 32796), (275, 32814), (292, 32856), (297, 32880), (314, 32955), (319, 32985), (334, 33045), (336, 33057), (340, 33075), (363, 33177), (393, 33282), (395, 33288), (397, 33306), (409, 33393),

Gene: SynergyX_33 Start: 32223, Stop: 33425, Start Num: 57

Candidate Starts for SynergyX_33:

(Start: 57 @32223 has 97 MA's), (72, 32256), (109, 32400), (112, 32409), (115, 32418), (132, 32457), (135, 32466), (142, 32484), (146, 32502), (150, 32520), (153, 32526), (160, 32538), (166, 32556), (170, 32571), (190, 32604), (198, 32631), (212, 32676), (247, 32757), (261, 32784), (265, 32802),

(275, 32820), (292, 32862), (297, 32886), (314, 32961), (319, 32991), (334, 33051), (336, 33063), (340, 33081), (363, 33183), (393, 33288), (395, 33294), (397, 33312), (409, 33399),

Gene: Taptic_25 Start: 29324, Stop: 30529, Start Num: 54

Candidate Starts for Taptic_25:

(Start: 52 @29321 has 2 MA's), (Start: 54 @29324 has 7 MA's), (78, 29393), (99, 29462), (105, 29492), (109, 29504), (111, 29510), (112, 29513), (115, 29522), (132, 29561), (135, 29570), (140, 29582), (158, 29639), (162, 29648), (166, 29660), (170, 29675), (195, 29720), (198, 29735), (212, 29780), (243, 29849), (254, 29876), (263, 29900), (282, 29945), (292, 29966), (297, 29990), (314, 30065), (319, 30095), (334, 30155), (336, 30167), (340, 30185), (363, 30287), (395, 30398), (397, 30416), (404, 30467), (409, 30503),

Gene: Thonko_30 Start: 29614, Stop: 30771, Start Num: 55

Candidate Starts for Thonko_30:

(47, 29584), (Start: 55 @29614 has 9 MA's), (91, 29728), (127, 29845), (132, 29860), (135, 29869), (142, 29887), (146, 29905), (166, 29959), (203, 30049), (208, 30067), (214, 30085), (310, 30319), (313, 30328), (325, 30370), (343, 30460), (348, 30472),

Gene: ThreeOh3D2_33 Start: 32374, Stop: 33534, Start Num: 56

Candidate Starts for ThreeOh3D2_33:

(Start: 56 @32374 has 79 MA's), (91, 32485), (102, 32530), (139, 32629), (160, 32689), (170, 32725), (180, 32749), (200, 32794), (203, 32800), (220, 32851), (241, 32890), (247, 32893), (256, 32905), (270, 32920), (280, 32944), (294, 32977), (312, 33058), (323, 33103), (334, 33151), (342, 33187), (345, 33196), (348, 33202), (402, 33427),

Gene: Tinciduntolum_34 Start: 32810, Stop: 33979, Start Num: 51

Candidate Starts for Tinciduntolum_34:

(31, 32669), (Start: 51 @32810 has 10 MA's), (Start: 56 @32816 has 79 MA's), (72, 32855), (77, 32885), (91, 32930), (102, 32975), (139, 33074), (160, 33134), (170, 33170), (180, 33194), (200, 33239), (203, 33245), (220, 33296), (241, 33335), (247, 33338), (256, 33350), (270, 33365), (280, 33389), (294, 33422), (312, 33503), (334, 33596), (342, 33632), (345, 33641), (348, 33647), (361, 33707), (402, 33872),

Gene: TinyTerror_33 Start: 32208, Stop: 33410, Start Num: 57

Candidate Starts for TinyTerror_33:

(Start: 57 @32208 has 97 MA's), (109, 32385), (112, 32394), (115, 32403), (132, 32442), (135, 32451), (142, 32469), (158, 32520), (162, 32529), (166, 32541), (168, 32547), (170, 32556), (195, 32601), (198, 32616), (212, 32661), (228, 32700), (243, 32730), (249, 32745), (254, 32757), (263, 32781), (282, 32826), (292, 32847), (297, 32871), (314, 32946), (319, 32976), (334, 33036), (336, 33048), (340, 33066), (363, 33168), (393, 33273), (395, 33279), (397, 33297), (409, 33384),

Gene: Tres_33 Start: 32691, Stop: 33854, Start Num: 56

Candidate Starts for Tres_33:

(31, 32544), (Start: 51 @32685 has 10 MA's), (Start: 56 @32691 has 79 MA's), (72, 32730), (77, 32760), (91, 32805), (102, 32850), (139, 32949), (160, 33009), (170, 33045), (180, 33069), (200, 33114), (203, 33120), (220, 33171), (241, 33210), (247, 33213), (256, 33225), (270, 33240), (280, 33264), (294, 33297), (312, 33378), (334, 33471), (342, 33507), (345, 33516), (348, 33522), (402, 33747),

Gene: TriFive_22 Start: 22247, Stop: 23464, Start Num: 59

Candidate Starts for TriFive_22:

(Start: 59 @22247 has 52 MA's), (90, 22349), (95, 22361), (99, 22379), (101, 22388), (111, 22427), (127, 22463), (132, 22478), (134, 22484), (143, 22514), (144, 22517), (157, 22553), (163, 22565),

(182, 22616), (184, 22619), (206, 22679), (215, 22706), (222, 22721), (225, 22727), (230, 22739), (259, 22799), (265, 22823), (292, 22883), (313, 22979), (318, 23012), (337, 23084), (342, 23108), (398, 23336), (399, 23348),

Gene: Trypo_33 Start: 32370, Stop: 33530, Start Num: 56

Candidate Starts for Trypo_33:

(Start: 56 @32370 has 79 MA's), (91, 32481), (102, 32526), (139, 32625), (160, 32685), (170, 32721), (180, 32745), (200, 32790), (203, 32796), (220, 32847), (241, 32886), (247, 32889), (256, 32901), (270, 32916), (280, 32940), (294, 32973), (312, 33054), (323, 33099), (334, 33147), (342, 33183), (345, 33192), (348, 33198), (402, 33423),

Gene: Tydolla_33 Start: 32957, Stop: 34159, Start Num: 57

Candidate Starts for Tydolla_33:

(Start: 57 @32957 has 97 MA's), (72, 32990), (109, 33134), (112, 33143), (115, 33152), (132, 33191), (135, 33200), (142, 33218), (158, 33269), (162, 33278), (166, 33290), (168, 33296), (170, 33305), (195, 33350), (198, 33365), (212, 33410), (228, 33449), (243, 33479), (249, 33494), (254, 33506), (263, 33530), (282, 33575), (292, 33596), (297, 33620), (314, 33695), (319, 33725), (334, 33785), (336, 33797), (340, 33815), (363, 33917), (393, 34022), (395, 34028), (397, 34046), (409, 34133),

Gene: Typha_28 Start: 26025, Stop: 27062, Start Num: 81

Candidate Starts for Typha_28:

(Start: 81 @26025 has 3 MA's), (118, 26148), (138, 26202), (150, 26238), (182, 26301), (205, 26349), (251, 26403), (252, 26406), (312, 26592), (320, 26628), (330, 26670), (334, 26688), (348, 26739),

Gene: TyrionL_32 Start: 31933, Stop: 33093, Start Num: 56

Candidate Starts for TyrionL_32:

(Start: 56 @31933 has 79 MA's), (91, 32044), (102, 32089), (139, 32188), (160, 32248), (170, 32284), (180, 32308), (200, 32353), (203, 32359), (220, 32410), (241, 32449), (247, 32452), (256, 32464), (270, 32479), (280, 32503), (294, 32536), (312, 32617), (323, 32662), (334, 32710), (342, 32746), (345, 32755), (348, 32761), (402, 32986),

Gene: Tyson_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Tyson_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: UPIE_21 Start: 21683, Stop: 22858, Start Num: 57

Candidate Starts for UPIE_21:

(Start: 57 @21683 has 97 MA's), (Start: 59 @21686 has 52 MA's), (Start: 97 @21812 has 1 MA's), (107, 21854), (111, 21866), (112, 21869), (127, 21902), (131, 21914), (146, 21962), (150, 21980), (166, 22016), (170, 22031), (194, 22082), (205, 22112), (217, 22154), (231, 22178), (272, 22214), (275, 22220), (287, 22247), (292, 22265), (314, 22358), (315, 22361), (333, 22445), (364, 22583), (370, 22601), (393, 22685),

Gene: Ubuntu_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Ubuntu_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917),

(258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Vanisoa_31 Start: 24621, Stop: 25826, Start Num: 58

Candidate Starts for Vanisoa_31:

(Start: 58 @24621 has 2 MA's), (105, 24786), (109, 24798), (111, 24804), (112, 24807), (147, 24909), (163, 24942), (191, 25014), (200, 25038), (208, 25062), (244, 25146), (312, 25353), (313, 25356), (318, 25389), (348, 25500), (385, 25656),

Gene: Velveteen_20 Start: 20087, Stop: 21244, Start Num: 62

Candidate Starts for Velveteen_20:

(Start: 62 @20087 has 3 MA's), (Start: 66 @20090 has 20 MA's), (Start: 97 @20219 has 1 MA's), (104, 20249), (113, 20279), (119, 20288), (125, 20303), (133, 20327), (142, 20351), (144, 20363), (170, 20438), (173, 20447), (182, 20471), (194, 20501), (252, 20585), (253, 20588), (263, 20609), (332, 20858), (334, 20867), (340, 20897), (348, 20918), (359, 20987), (410, 21221),

Gene: Vic9_00033 Start: 33132, Stop: 34337, Start Num: 54

Candidate Starts for Vic9_00033:

(32, 32988), (Start: 52 @33129 has 2 MA's), (Start: 54 @33132 has 7 MA's), (78, 33201), (99, 33270), (105, 33300), (109, 33312), (111, 33318), (112, 33321), (115, 33330), (132, 33369), (135, 33378), (140, 33390), (158, 33447), (162, 33456), (166, 33468), (170, 33483), (195, 33528), (198, 33543), (212, 33588), (243, 33657), (254, 33684), (263, 33708), (284, 33756), (289, 33762), (292, 33774), (297, 33798), (314, 33873), (319, 33903), (334, 33963), (336, 33975), (340, 33993), (362, 34092), (363, 34095), (393, 34200), (395, 34206), (403, 34272), (404, 34275),

Gene: Vincenzo_31 Start: 33326, Stop: 34483, Start Num: 59

Candidate Starts for Vincenzo_31:

(Start: 59 @33326 has 52 MA's), (Start: 88 @33419 has 6 MA's), (91, 33434), (96, 33449), (99, 33461), (102, 33479), (135, 33569), (148, 33620), (153, 33629), (162, 33647), (170, 33674), (184, 33689), (190, 33695), (193, 33701), (204, 33734), (206, 33743), (216, 33776), (244, 33809), (249, 33821), (262, 33854), (269, 33869), (280, 33899), (292, 33905), (308, 33971), (310, 33995), (313, 34004), (348, 34151), (384, 34304),

Gene: VioletZ_30 Start: 32678, Stop: 33835, Start Num: 57

Candidate Starts for VioletZ_30:

(Start: 57 @32678 has 97 MA's), (Start: 88 @32771 has 6 MA's), (91, 32786), (96, 32801), (99, 32813), (102, 32831), (116, 32873), (135, 32921), (148, 32972), (153, 32981), (162, 32999), (170, 33026), (184, 33041), (190, 33047), (193, 33053), (195, 33059), (204, 33086), (206, 33095), (216, 33128), (244, 33161), (269, 33221), (280, 33251), (292, 33257), (306, 33302), (313, 33356), (314, 33359), (348, 33503), (384, 33656),

Gene: Vista_33 Start: 32374, Stop: 33534, Start Num: 56

Candidate Starts for Vista_33:

(Start: 56 @32374 has 79 MA's), (91, 32485), (102, 32530), (139, 32629), (160, 32689), (170, 32725), (180, 32749), (200, 32794), (203, 32800), (220, 32851), (241, 32890), (247, 32893), (256, 32905), (270, 32920), (280, 32944), (294, 32977), (312, 33058), (323, 33103), (334, 33151), (342, 33187), (345, 33196), (348, 33202), (402, 33427),

Gene: Waleliano_30 Start: 32605, Stop: 33762, Start Num: 57

Candidate Starts for Waleliano_30:

(Start: 57 @32605 has 97 MA's), (Start: 88 @32698 has 6 MA's), (91, 32713), (96, 32728), (99, 32740), (102, 32758), (116, 32800), (148, 32899), (153, 32908), (162, 32926), (170, 32953), (184, 32968), (190, 32974), (193, 32980), (195, 32986), (204, 33013), (206, 33022), (216, 33055), (244, 33088),

(269, 33148), (280, 33178), (292, 33184), (296, 33205), (306, 33229), (313, 33283), (314, 33286), (384, 33583),

Gene: Wallhey_32 Start: 31937, Stop: 33097, Start Num: 56

Candidate Starts for Wallhey_32:

(Start: 56 @31937 has 79 MA's), (91, 32048), (102, 32093), (139, 32192), (160, 32252), (170, 32288), (180, 32312), (200, 32357), (203, 32363), (220, 32414), (241, 32453), (247, 32456), (256, 32468), (270, 32483), (280, 32507), (294, 32540), (312, 32621), (323, 32666), (334, 32714), (342, 32750), (345, 32759), (348, 32765), (402, 32990),

Gene: Wamburgxpress_21 Start: 21701, Stop: 22873, Start Num: 59

Candidate Starts for Wamburgxpress_21:

(Start: 57 @21698 has 97 MA's), (Start: 59 @21701 has 52 MA's), (Start: 97 @21827 has 1 MA's), (107, 21869), (111, 21881), (112, 21884), (127, 21917), (131, 21929), (146, 21977), (150, 21995), (166, 22031), (170, 22046), (194, 22097), (205, 22127), (217, 22169), (231, 22193), (272, 22229), (275, 22235), (287, 22262), (292, 22280), (314, 22373), (315, 22376), (333, 22460), (364, 22598), (370, 22616), (393, 22700),

Gene: Waterdiva_33 Start: 32366, Stop: 33526, Start Num: 56

Candidate Starts for Waterdiva_33:

(Start: 56 @32366 has 79 MA's), (91, 32477), (102, 32522), (139, 32621), (160, 32681), (170, 32717), (180, 32741), (200, 32786), (203, 32792), (220, 32843), (241, 32882), (247, 32885), (256, 32897), (270, 32912), (280, 32936), (294, 32969), (312, 33050), (323, 33095), (334, 33143), (342, 33179), (345, 33188), (348, 33194), (402, 33419),

Gene: Webster2_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Webster2_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548), (Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: West99_33 Start: 32811, Stop: 33974, Start Num: 56

Candidate Starts for West99_33:

(31, 32664), (Start: 51 @32805 has 10 MA's), (Start: 56 @32811 has 79 MA's), (72, 32850), (77, 32880), (91, 32925), (102, 32970), (139, 33069), (160, 33129), (170, 33165), (180, 33189), (200, 33234), (203, 33240), (220, 33291), (241, 33330), (247, 33333), (256, 33345), (270, 33360), (280, 33384), (294, 33417), (312, 33498), (323, 33543), (334, 33591), (342, 33627), (345, 33636), (348, 33642), (402, 33867),

Gene: Whirlwind_23 Start: 22004, Stop: 23203, Start Num: 59

Candidate Starts for Whirlwind_23:

(Start: 59 @22004 has 52 MA's), (99, 22136), (111, 22184), (130, 22229), (132, 22235), (143, 22271), (157, 22310), (161, 22316), (163, 22322), (175, 22364), (206, 22436), (225, 22484), (230, 22496), (233, 22502), (262, 22571), (292, 22640), (312, 22733), (318, 22769), (333, 22823), (337, 22841), (385, 23033), (405, 23141),

Gene: Wishmaker_27 Start: 23371, Stop: 24609, Start Num: 57

Candidate Starts for Wishmaker_27:

(9, 22759), (11, 22825), (16, 22915), (17, 22918), (20, 23068), (23, 23155), (24, 23158), (41, 23296), (Start: 57 @23371 has 97 MA's), (86, 23467), (93, 23494), (95, 23500), (103, 23539), (105, 23548),

(Start: 123 @23593 has 3 MA's), (128, 23605), (141, 23644), (161, 23701), (175, 23752), (177, 23767), (193, 23806), (205, 23839), (211, 23860), (213, 23866), (228, 23902), (235, 23914), (237, 23917), (258, 23965), (265, 23971), (267, 23974), (272, 23983), (312, 24121), (334, 24214), (349, 24271), (350, 24277), (367, 24361), (371, 24376), (372, 24379), (391, 24445), (396, 24478),

Gene: Wyatt2_21 Start: 21688, Stop: 22860, Start Num: 59

Candidate Starts for Wyatt2_21:

(Start: 57 @21685 has 97 MA's), (Start: 59 @21688 has 52 MA's), (Start: 97 @21814 has 1 MA's), (107, 21856), (111, 21868), (112, 21871), (127, 21904), (131, 21916), (146, 21964), (150, 21982), (166, 22018), (170, 22033), (194, 22084), (205, 22114), (217, 22156), (231, 22180), (272, 22216), (275, 22222), (287, 22249), (292, 22267), (314, 22360), (315, 22363), (333, 22447), (364, 22585), (370, 22603), (393, 22687),

Gene: Xincheng_29 Start: 32060, Stop: 33217, Start Num: 57

Candidate Starts for Xincheng_29:

(Start: 57 @32060 has 97 MA's), (Start: 88 @32153 has 6 MA's), (91, 32168), (96, 32183), (99, 32195), (102, 32213), (109, 32237), (116, 32255), (124, 32270), (148, 32354), (153, 32363), (162, 32381), (184, 32423), (190, 32429), (193, 32435), (195, 32441), (204, 32468), (206, 32477), (216, 32510), (244, 32543), (252, 32561), (269, 32603), (280, 32633), (292, 32639), (313, 32738), (314, 32741), (338, 32852), (348, 32885), (384, 33038), (391, 33062), (393, 33074),

Gene: Xula_21 Start: 20946, Stop: 22157, Start Num: 66

Candidate Starts for Xula_21:

(Start: 66 @20946 has 20 MA's), (71, 20970), (84, 21027), (Start: 97 @21075 has 1 MA's), (113, 21135), (119, 21144), (125, 21159), (133, 21183), (142, 21207), (144, 21219), (157, 21255), (170, 21294), (173, 21303), (182, 21327), (194, 21357), (225, 21441), (226, 21444), (238, 21465), (252, 21501), (253, 21504), (263, 21525), (280, 21567), (312, 21684), (320, 21720), (324, 21726), (348, 21831), (363, 21912),

Gene: Yahalom_33 Start: 32232, Stop: 33434, Start Num: 57

Candidate Starts for Yahalom_33:

(Start: 57 @32232 has 97 MA's), (72, 32265), (109, 32409), (112, 32418), (115, 32427), (132, 32466), (135, 32475), (142, 32493), (146, 32511), (150, 32529), (153, 32535), (160, 32547), (166, 32565), (170, 32580), (190, 32613), (198, 32640), (212, 32685), (247, 32766), (261, 32793), (265, 32811), (275, 32829), (292, 32871), (319, 33000), (340, 33090), (363, 33192), (380, 33249), (383, 33258), (393, 33297), (403, 33369), (410, 33411),

Gene: YangYin_23 Start: 23308, Stop: 24453, Start Num: 59

Candidate Starts for YangYin_23:

(4, 22318), (6, 22519), (10, 22678), (48, 23284), (Start: 59 @23308 has 52 MA's), (91, 23419), (96, 23434), (132, 23545), (151, 23608), (160, 23623), (215, 23770), (223, 23785), (265, 23836), (302, 23932), (305, 23938), (310, 23983), (313, 23992), (342, 24121), (351, 24160),

Gene: Yinz_33 Start: 32255, Stop: 33457, Start Num: 57

Candidate Starts for Yinz_33:

(Start: 57 @32255 has 97 MA's), (72, 32288), (109, 32432), (112, 32441), (115, 32450), (132, 32489), (135, 32498), (142, 32516), (146, 32534), (150, 32552), (153, 32558), (160, 32570), (166, 32588), (170, 32603), (190, 32636), (198, 32663), (212, 32708), (247, 32789), (261, 32816), (265, 32834), (275, 32852), (292, 32894), (319, 33023), (326, 33032), (340, 33113), (363, 33215), (380, 33272), (383, 33281), (393, 33320), (403, 33392), (410, 33434),

Gene: Zaria_21 Start: 21702, Stop: 22874, Start Num: 59

Candidate Starts for Zaria_21:

(Start: 57 @21699 has 97 MA's), (Start: 59 @21702 has 52 MA's), (Start: 97 @21828 has 1 MA's), (107, 21870), (111, 21882), (112, 21885), (127, 21918), (131, 21930), (134, 21939), (146, 21978), (150, 21996), (166, 22032), (170, 22047), (194, 22098), (205, 22128), (217, 22170), (231, 22194), (272, 22230), (275, 22236), (287, 22263), (292, 22281), (314, 22374), (315, 22377), (333, 22461), (364, 22599), (370, 22617), (393, 22701),

Gene: Zemanar_31 Start: 32608, Stop: 33765, Start Num: 57

Candidate Starts for Zemanar_31:

(Start: 57 @32608 has 97 MA's), (Start: 88 @32701 has 6 MA's), (91, 32716), (96, 32731), (99, 32743), (102, 32761), (116, 32803), (148, 32902), (153, 32911), (162, 32929), (170, 32956), (184, 32971), (190, 32977), (193, 32983), (195, 32989), (204, 33016), (206, 33025), (216, 33058), (244, 33091), (269, 33151), (280, 33181), (292, 33187), (306, 33232), (313, 33286), (314, 33289), (348, 33433), (384, 33586),

Gene: Zenteno07_35 Start: 31167, Stop: 32306, Start Num: 53

Candidate Starts for Zenteno07_35:

(26, 30954), (Start: 53 @31167 has 1 MA's), (69, 31209), (83, 31257), (91, 31287), (Start: 97 @31308 has 1 MA's), (113, 31368), (132, 31416), (133, 31419), (135, 31425), (143, 31452), (148, 31476), (153, 31485), (172, 31536), (219, 31656), (229, 31674), (314, 31860), (327, 31905), (343, 31989), (348, 32001), (353, 32040), (375, 32118),

Gene: Zonia_33 Start: 32387, Stop: 33547, Start Num: 56

Candidate Starts for Zonia_33:

(Start: 56 @32387 has 79 MA's), (91, 32498), (102, 32543), (139, 32642), (160, 32702), (170, 32738), (180, 32762), (200, 32807), (203, 32813), (220, 32864), (241, 32903), (247, 32906), (256, 32918), (270, 32933), (280, 32957), (294, 32990), (312, 33071), (323, 33116), (334, 33164), (342, 33200), (345, 33209), (348, 33215), (402, 33440),