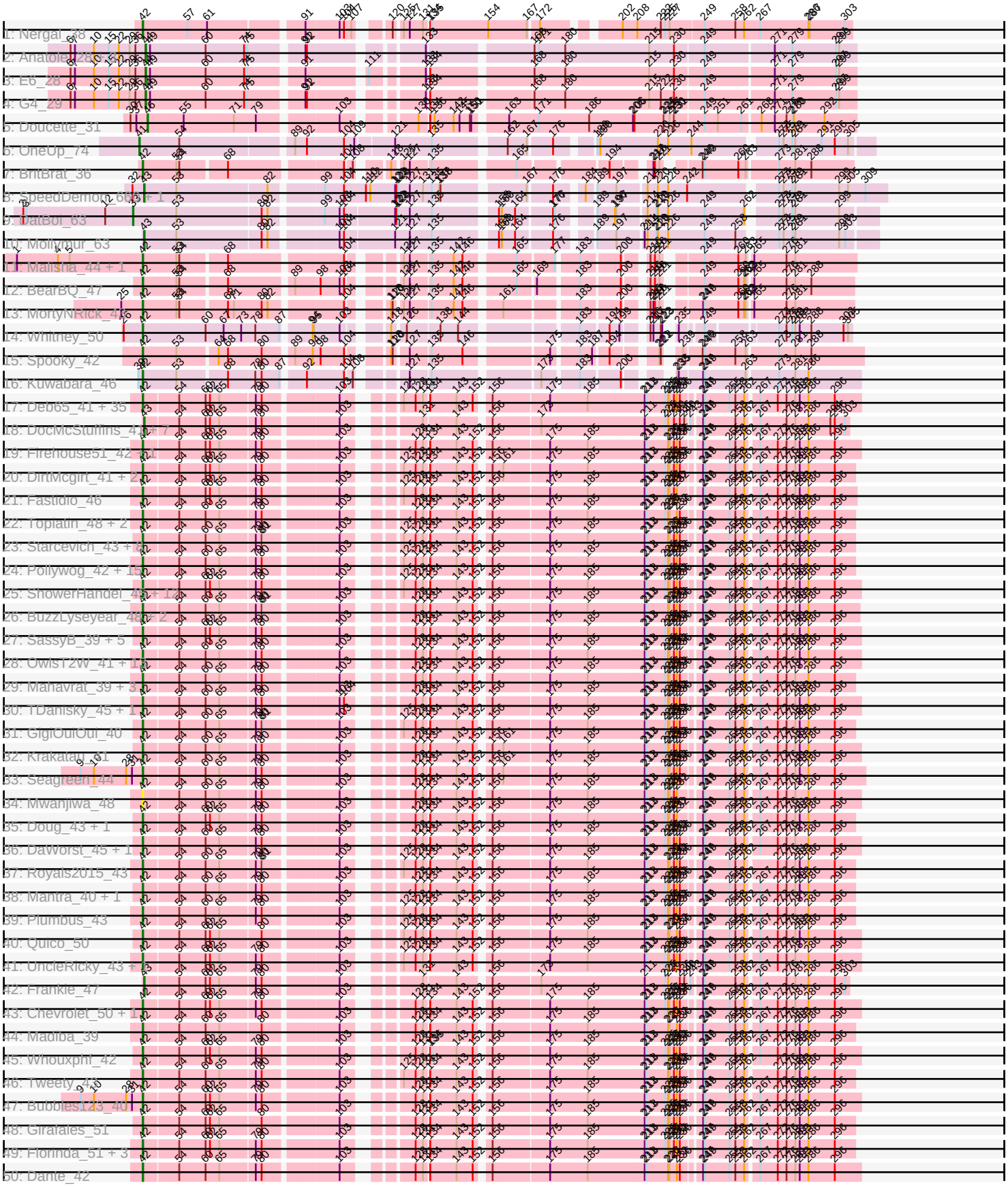
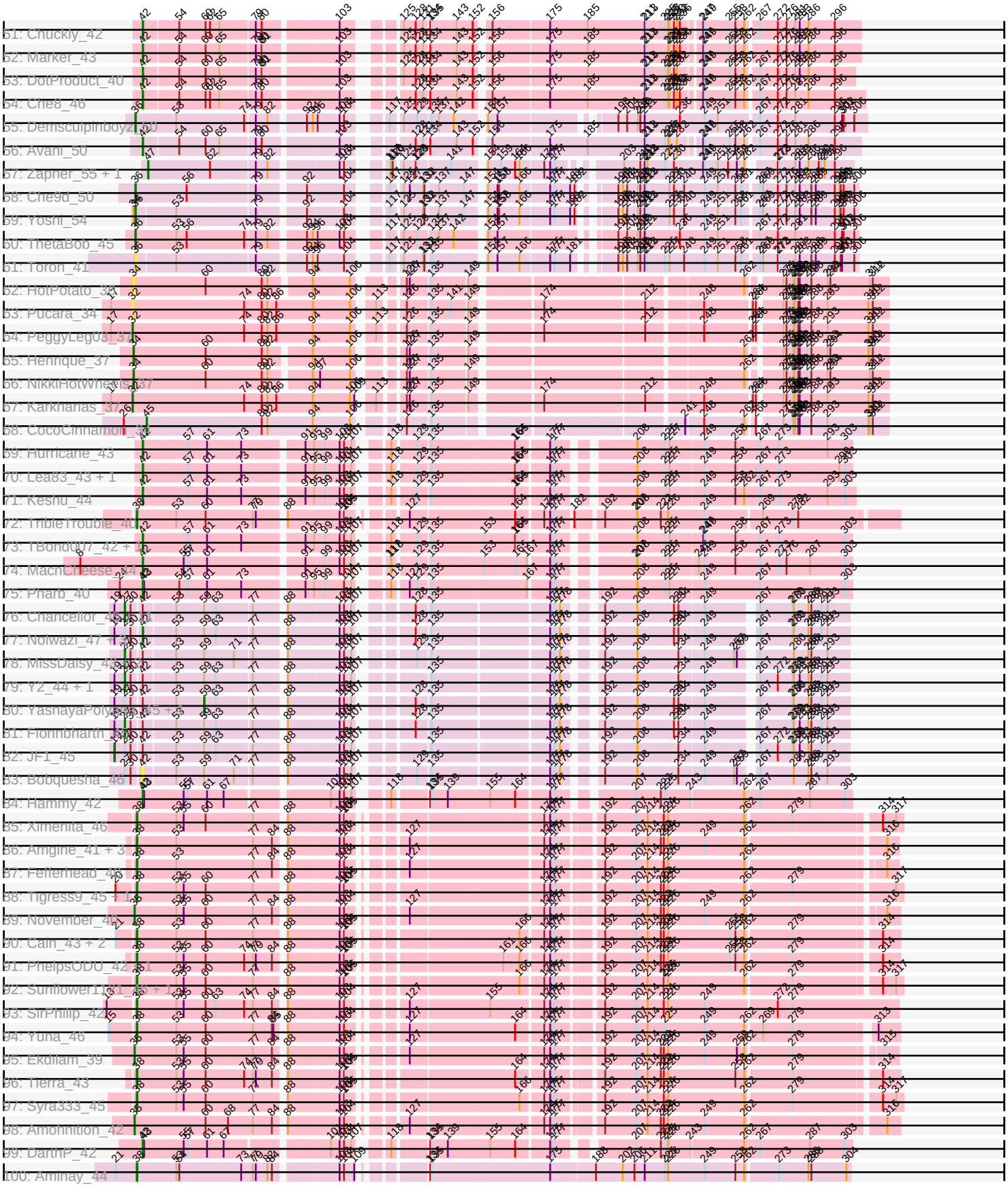
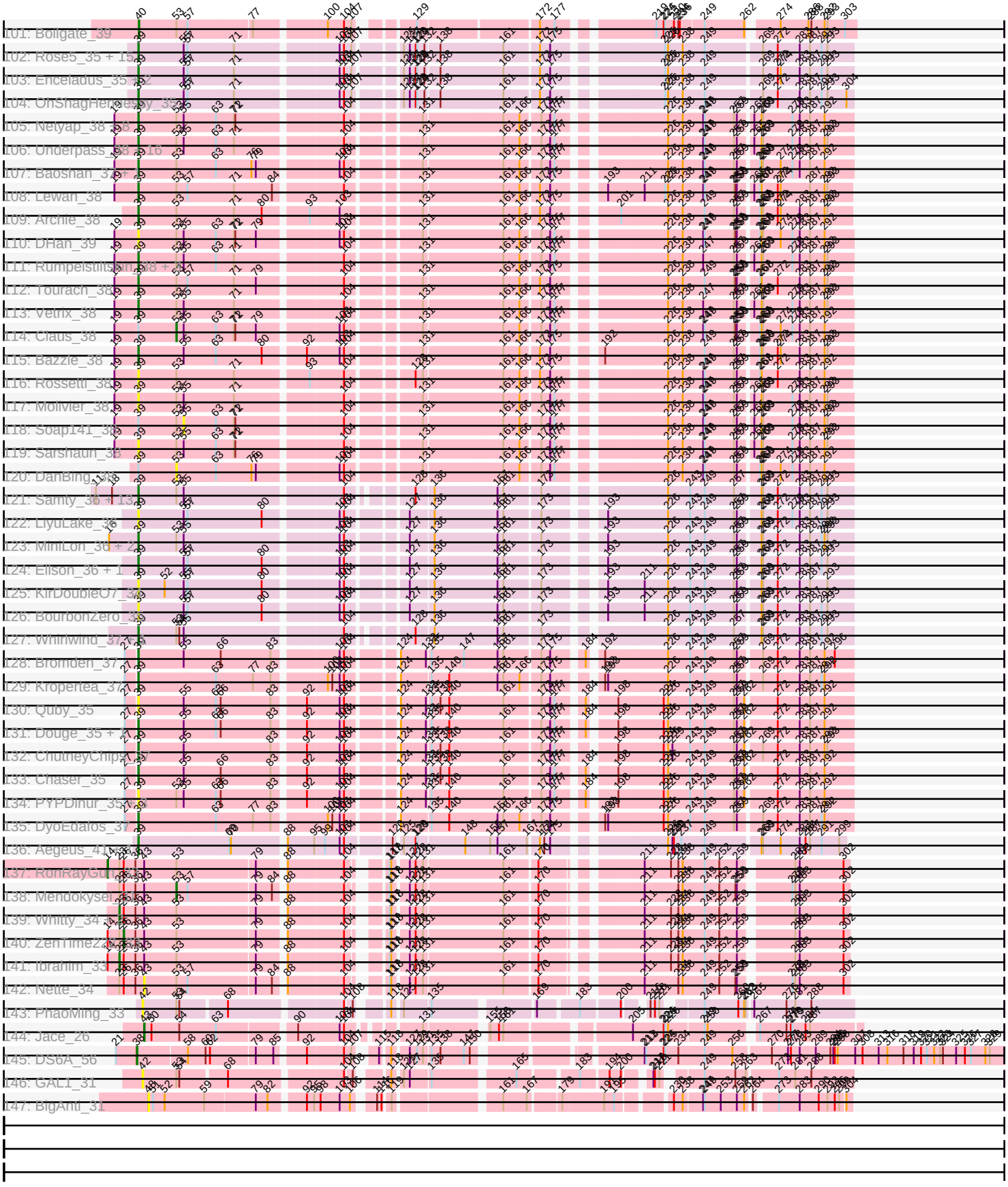
Pham 347127



Pham 347127



Pham 347127



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 347127 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347127 has 364 members, 38 are drafts.

Phages represented in each track:
• Track 1 : Nergal_38
• Track 2 : Anatole_28, B3_28, B22_29, E1_28
• Track 3 : E6_28
• Track 4 : G4_29
• Track 5 : Doucette_31
• Track 6 : OneUp_74
• Track 7 : BritBrat_36
• Track 8 : SpeedDemon_660, Bantam_64
• Track 9 : DatBoi_63
• Track 10 : Mollymur_63
• Track 11 : Malisha_44, Squiddly_44
• Track 12 : BearBQ_47
• Track 13 : MortyNRick_43
• Track 14 : Whitney_50
• Track 15 : Spooky_42
• Track 16 : Kuwabara_46
• Track 17 : Deb65_41, Doomphist_43, Empress_43, Poenanya_43, Lizziana_50, Inventum_40, LilMoolah_42, Ogopogo_44, Yorick_40, Sassafras_42, RitaG_41, Leperchaun_38, Polka14_42, Girr_44, Jarcob_44, Emmaloid_44, Ruby_42, Scottish_43, Daenerys_40, Latretium_45, Pacc40_40, KingMidas_44, OldBen_41, Spoonbill_42, Rockne_40, MisterCuddles_43, Ramsey_44, Nimbo_40, Vivum_46, PMC_38, JoeyJr_41, Boomer_46, PHappiness_41, Geralt_41, DaddyRickover_42, Slim_44
• Track 18 : DocMcStuffins_41, Awesomesauce_41, ChickenDinner_41, Aloeri_41, Misha28_40, Piper2020_41, TootsiePop_40, MulchSalad_35
• Track 19 : Firehouse51_42, Gandalph_42
• Track 20 : DirtMcgirt_41, Llij_40, Phatniss_41
• Track 21 : Fastidio_46
• Track 22 : Topiatin_48, Kersh_43, Harley_45
• Track 23 : Starcevich_43, Veteran_41, LittleShirley_43, SiSi_43, Kimberlium_44, Tchotchke_44, MulchExplorer_44, Peridot_44, QuickMath_43
• Track 24 : Pollywog_42, RedBird_40, Stap_42, PhlipPhlop_42, Leozinho_43, IbOuu_43, EmiMonkey_40, Radiance_42, Sandalphon_45, Dorothy_40, Spikelee_48, Karhdo_42, BodEinwohner17_41, Job42_44, Tootsieroll_45, Lucia_41
• Track 25 : ShowerHandel_45, Koella_38, ShiLan_44, Beanstalk_43, Burwell21_43, MadMen_38, Martik_44, NormanBulbieJr_44, FreddyB_43, Cabrinians_45, Priscilla_44, Crumble_38, Nivrat_42

• Track 26 : BuzzLyseyear_48, GUmbie_41, Totinger_42
• Track 27 : SassyB_39, PopTart_39, JalFarm20_52, Aubs_41, RockyHorror_44, Zerg_42
• Track 28 : OwlsT2W_41, OfUltron_45, OlympiaSaint_42, Ibhubesi_44, Oksu_45, Llama_45, Blexus_41, Seabastian_45, AlpineSix_45, Jinglebell_44, Fancypants_43, Ochi17_43, Modragons_44, Nichirin_45
• Track 29 : Mahavrat_39, DillTech15_43, Maravista_42, Eish_43
• Track 30 : TDanisky_45, Sparkdehlily_45
• Track 31 : GigiOuiOui_40
• Track 32 : Krakatau_41
• Track 33 : Seagreen_44
• Track 34 : Mwanjiwa_48
• Track 35 : Doug_43, Hamulus_43
• Track 36 : DaWorst_45, Grimmer_50
• Track 37 : Royals2015_43
• Track 38 : Mantra_40, Nitzel_39
• Track 39 : Plumbus_43
• Track 40 : Quico_50
• Track 41 : UncleRicky_43, Drago_42
• Track 42 : Frankie_47
• Track 43 : Chevrolet_50, ArcusAngelus_47
• Track 44 : Madiba_39
• Track 45 : Whouxphf_42
• Track 46 : Tweety_43
• Track 47 : Bubbles123_40
• Track 48 : Girafales_51
• Track 49 : Florinda_51, Sabbb_48, Phasih_41, BlueCrab_41
• Track 50 : Dante_42
• Track 51 : Chuckly_42
• Track 52 : Marker_43
• Track 53 : DotProduct_40
• Track 54 : Che8_46
• Track 55 : Demsculpinboyz_50
• Track 56 : Avani_50
• Track 57 : Zapner_55, Jabbawokkie_57
• Track 58 : Che9d_50
• Track 59 : Yoshi_54
• Track 60 : ThetaBob_45
• Track 61 : Toron_41
• Track 62 : HotPotato_36
• Track 63 : Pucara_34
• Track 64 : PeggyLeg03_37
• Track 65 : Henrique_37
• Track 66 : NikkiHotWheels_37
• Track 67 : Karkharias_37
• Track 68 : CocoCinnamon_34
• Track 69 : Hurricane_43
• Track 70 : Lea83_43, ShedlockHolmes_43
• Track 71 : Keshu_44
• Track 72 : TribleTrouble_40
• Track 73 : TBond007_42, Pixie_42
• Track 74 : MacnCheese_44
• Track 75 : Pharb_40

• Track 76 : Chancellor_45, Wintermute_45, Cheetobro_45, Eponine_47, Qhanda_47, Malthus_46, SamScheppers_44, Slarp_45, Mitti_45, Kraw_45, DanSyl44_49, Ruthiejr_46
• Track 77 : Nolwazi_47, Lebo14_45, Taquito_45, Juliette_47
• Track 78 : MissDaisy_43, Reptar3000_43, Patt_42
• Track 79 : Y2_44, Y10_44
• Track 80 : YasnayaPolyana_45, OmniCritical_44
• Track 81 : Fionnbharth_45
• Track 82 : JF1_45
• Track 83 : Bobquesha_46
• Track 84 : Hammy_42
• Track 85 : Ximenita_46
• Track 86 : Amgine_41, Lavahound_41, Ellie_39, Applecrisp_40
• Track 87 : Fefferhead_40
• Track 88 : Tigress9_45, Krueger_46
• Track 89 : November_40
• Track 90 : Cain_43, Phrank_43, Bryler_43
• Track 91 : PhelpsODU_42, Unicorn_42
• Track 92 : Sunflower1121_46, Shadow1_45
• Track 93 : SirPhilip_42
• Track 94 : Yuna_46
• Track 95 : Ekdilam_39
• Track 96 : Tierra_43
• Track 97 : Syra333_45
• Track 98 : Amohnition_42
• Track 99 : DarthP_42
• Track 100 : Aminay_44
• Track 101 : Boilgate_39
• Track 102 : Rose5_35, Acquire49_36, DirkDirk_35, Calm_36, CicholasNage_36, Zaria_36, JoeDirt_35, LeBron_36, Halena_35, Wyatt2_36, MAckerman_36, Appletree2_35, Tyson_35, Poochiewood_35, Silverleaf_35, AvadaKedavra_36
• Track 103 : Enceladus_35, Wamburgrxpress_36, UPIE_36
• Track 104 : OhShagHennessy_35
• Track 105 : Netyap_38, Winky_38, Miley16_38, Faith1_38, DrSeegs_38, Itos_38, Breezona_38, BigCheese_38, BobsGarage_38
• Track 106 : Underpass_38, ChengKai98_38, Gardann_38, Wilder_38, Kahlid_38, OverPar_39, Finemlucis_38, Wigglewiggle_38, Zakai_38, MkaliMitinis3_38, Hiraya_38, Crossroads_38, Hafay_38, Loadrie_38, GuuelaD_38, Lynnae_38, Nicholasp3_38
• Track 107 : Baoshan_37, ZhongYanYuan_37
• Track 108 : Lewan_38
• Track 109 : Archie_38
• Track 110 : DHan_39
• Track 111 : Rumpelstiltskin_38, Gabriela_38, SoJulia_39, LilDestine_38
• Track 112 : Tourach_38
• Track 113 : Vetrix_38
• Track 114 : Claus_38
• Track 115 : Bazzle_38
• Track 116 : Rossetti_38
• Track 117 : Molivier_38
• Track 118 : Soap141_38
• Track 119 : Sarshaun_38
• Track 120 : DanBing_38

• Track 121 : Samty_36, Clautastrophe_36, Kingsolomon_36, TriFive_36, Nicholas_36, Lumos_36, Moostard_36, Snenia_36, Finnry_36, MsGreen_36, Jobypre_36, Jubie_36, Bellis_36, Red305_36
• Track 122 : LiyuLake_36
• Track 123 : MiniLon_36, MiniMac_36, Lolly9_36
• Track 124 : Ellson_36, DuncansLeg_36
• Track 125 : KirDoubleO7_34
• Track 126 : BourbonZero_35
• Track 127 : Whirlwind_37, Krypton555_36
• Track 128 : Bromden_37
• Track 129 : Kropertea_37
• Track 130 : Quby_35
• Track 131 : Douge_35, FarmResident_35
• Track 132 : ChutneyChips_37
• Track 133 : Chaser_35
• Track 134 : PYPDinur_35, BrainDrainer_36, Sheng711_35, Douzhi_35
• Track 135 : DyoEdafos_37
• Track 136 : Aegeus_41, Baudelaire_41
• Track 137 : RonRayGun_33
• Track 138 : Mendokysei_31
• Track 139 : Whitty_34, Nairb_33, Bernal13_33
• Track 140 : ZenTime222_33
• Track 141 : Ibrahim_33
• Track 142 : Nette_34
• Track 143 : PhaoMing_33
• Track 144 : Jace_26
• Track 145 : DS6A_56
• Track 146 : GAL1_31
• Track 147 : BigAnti_31

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

The start number called the most often in the published annotations is 42, it was called in 163 of the 326 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlpineSix_45, ArcusAngelus_47, Aubs_41, Avani_50, Beanstalk_43, BearBQ_47, Blexus_41, BlueCrab_41, Bobquesha_46, BodEinwohner17_41, Boomer_46, BritBrat_36, Bubbles123_40, Burwell21_43, BuzzLyseyear_48, Cabrinians_45, Che8_46, Chevrolet_50, Chuckly_42, Crumble_38, DaWorst_45, DaddyRickover_42, Daenerys_40, Dante_42, DarthP_42, Deb65_41, DillTech15_43, DirtMcgirt_41, Doomphist_43, Dorothy_40, DotProduct_40, Doug_43, Drago_42, Eish_43, EmiMonkey_40, Emmaloid_44, Empress_43, Fancypants_43, Fastidio_46, Firehouse51_42, Florinda_51, FreddyB_43, GAL1_31, GUmbie_41, Gandalph_42, Geralt_41, GigiOuiOui_40, Girafales_51, Girr_44, Grimmer_50, Hammy_42, Hamulus_43, Harley_45, Hurricane_43, IbOuu_43, Ibhubesi_44, Inventum_40, JalFarm20_52, Jarcob_44, Jinglebell_44, Job42_44, JoeyJr_41, Juliette_47, Karhdo_42, Kersh_43, Keshu_44, Kimberlium_44, KingMidas_44, Koella_38, Krakatau_41, Kuwabara_46, Latretium_45, Lea83_43, Lebo14_45, Leozinho_43, Leperchaun_38, LilMoolah_42, LittleShirley_43, Lizziana_50, Llama_45, Llij_40,

Lucia_41, MacnCheese_44, MadMen_38, Madiba_39, Mahavrat_39, Malisha_44, Mantra_40, Maravista_42, Marker_43, Martik_44, MisterCuddles_43, Modragons_44, MortyNRick_43, MulchExplorer_44, Mwanjiwa_48, Nergal_38, Nichirin_45, Nimbo_40, Nitzel_39, Nivrat_42, Nolwazi_47, NormanBulbieJr_44, Ochi17_43, OfUltron_45, Ogopogo_44, Oksu_45, OldBen_41, OlympiaSaint_42, OwlsT2W_41, PHappiness_41, PMC_38, Pacc40_40, Peridot_44, PhaoMing_33, Pharb_40, Phasih_41, Phatniss_41, PhlipPhlop_42, Pixie_42, Plumbus_43, Poenanya_43, Polka14_42, Pollywog_42, PopTart_39, Priscilla_44, QuickMath_43, Quico_50, Radiance_42, Ramsey_44, RedBird_40, RitaG_41, Rockne_40, RockyHorror_44, Royals2015_43, Ruby_42, Sabbb_48, Sandalphon_45, Sassafras_42, SassyB_39, Scottish_43, Seabastian_45, Seagreen_44, ShedlockHolmes_43, ShiLan_44, ShowerHandel_45, SiSi_43, Slim_44, Sparkdehlily_45, Spikelee_48, Spooky_42, Spoonbill_42, Squiddly_44, Stap_42, Starcevich_43, TBond007_42, TDanisky_45, Taquito_45, Tchotchke_44, Tootsieroll_45, Topiatin_48, Totinger_42, Tweety_43, UncleRicky_43, Veteran_41, Vivum_46, Whitney_50, Whouxphf_42, Yorick_40, Zerg_42,

Genes that have the "Most Annotated" start but do not call it:
• Chancellor_45, Cheetobro_45, DanSyl44_49, Eponine_47, Fionnbharth_45, JF1_45, Kraw_45, Malthus_46, MissDaisy_43, Mitti_45, OmniCritical_44, Patt_42, Qhanda_47, Reptar3000_43, Ruthiejr_46, SamScheppers_44, Slarp_45, Wintermute_45, Y10_44, Y2_44, YasnayaPolyana_45,

Genes that do not have the "Most Annotated" start:
• Acquire49_36, Aegeus_41, Aloeri_41, Amgine_41, Aminay_44, Amohnition_42, Anatole_28, Applecrisp_40, Appletree2_35, Archie_38, AvadaKedavra_36, Awesomesauce_41, B22_29, B3_28, Bantam_64, Baoshan_37, Baudelaire_41, Bazzle_38, Bellis_36, Bernal13_33, BigAnti_31, BigCheese_38, BobsGarage_38, Boilgate_39, BourbonZero_35, BrainDrainer_36, Breezona_38, Bromden_37, Bryler_43, Cain_43, Calm_36, Chaser_35, Che9d_50, ChengKai98_38, ChickenDinner_41, ChutneyChips_37, CicholasNage_36, Claus_38, Clautastrophe_36, CocoCinnamon_34, Crossroads_38, DHan_39, DS6A_56, DanBing_38, DatBoi_63, Demsculpinboyz_50, DirkDirk_35, DocMcStuffins_41, Doucette_31, Douge_35, Douzhi_35, DrSeegs_38, DuncansLeg_36, DyoEdafos_37, E1_28, E6_28, Ekdilam_39, Ellie_39, Ellson_36, Enceladus_35, Faith1_38, FarmResident_35, Fefferhead_40, Finemlucis_38, Finnry_36, Frankie_47, G4_29, Gabriela_38, Gardann_38, GuuelaD_38, Hafay_38, Halena_35, Henrique_37, Hiraya_38, HotPotato_36, Ibrahim_33, Itos_38, Jabbawokkie_57, Jace_26, Jobypre_36, JoeDirt_35, Jubie_36, Kahlid_38, Karkharias_37, Kingsolomon_36, KirDoubleO7_34, Kropertea_37, Krueger_46, Krypton555_36, Lavahound_41, LeBron_36, Lewan_38, LilDestine_38, LiyuLake_36, Loadrie_38, Lolly9_36, Lumos_36, Lynnae_38, MAckerman_36, Mendokysei_31, Miley16_38, MiniLon_36, MiniMac_36, Misha28_40, MkaliMitinis3_38, Molivier_38, Mollymur_63, Moostard_36, MsGreen_36, MulchSalad_35, Nairb_33, Nette_34, Netyap_38, Nicholas_36, Nicholasp3_38, NikkiHotWheels_37, November_40, OhShagHennessy_35, OneUp_74, OverPar_39, PYPDinur_35, PeggyLeg03_37, PhelpsODU_42, Phrank_43, Piper2020_41, Poochiewood_35, Pucara_34, Quby_35, Red305_36, RonRayGun_33, Rose5_35, Rossetti_38, Rumpelstiltskin_38, Samty_36, Sarshaun_38, Shadow1_45, Sheng711_35, Silverleaf_35, SirPhilip_42, Snenia_36, SoJulia_39, Soap141_38, SpeedDemon_660, Sunflower1121_46, Syra333_45, ThetaBob_45, Tierra_43, Tigress9_45, TootsiePop_40, Toron_41, Tourach_38, TriFive_36, TribleTrouble_40, Tyson_35, UPIE_36, Underpass_38, Unicorn_42, Vetrix_38, Wamburgrxpress_36, Whirlwind_37, Whitty_34, Wigglewiggle_38,

Wilder_38, Winky_38, Wyatt2_36, Ximenita_46, Yoshi_54, Yuna_46, Zakai_38, Zapner_55, Zaria_36, ZenTime222_33, ZhongYanYuan_37,

Summary by start number:

Start 14:
• Found in 3 of 364 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 33.3% of time when present
• Phage (with cluster) where this start called: RonRayGun_33 (T),

Start 19:
• Found in 64 of 364 (17.6%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 1.6% of time when present
• Phage (with cluster) where this start called: JF1_45 (K4),

Start 23:
• Found in 8 of 364 (2.2%) of genes in pham
• Manual Annotations of this start: 4 of 326
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bernal13_33 (T), Ibrahim_33 (T), Nairb_33 (T), Whitty_34 (T),

Start 26:
• Found in 10 of 364 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 10.0% of time when present
• Phage (with cluster) where this start called: ZenTime222_33 (T),

Start 27:
• Found in 38 of 364 (10.4%) of genes in pham
• Manual Annotations of this start: 16 of 326
• Called 47.4% of time when present
• Phage (with cluster) where this start called: Chancellor_45 (K4), Cheetobro_45 (K4), DanSyl44_49 (K4), Eponine_47 (K4), Fionnbharth_45 (K4), Kraw_45 (K4), Malthus_46 (K4), MissDaisy_43 (K4), Mitti_45 (K4), Patt_42 (K4), Qhanda_47 (K4), Reptar3000_43 (K4), Ruthiejr_46 (K4), SamScheppers_44 (K4), Slarp_45 (K4), Wintermute_45 (K4), Y10_44 (K4), Y2_44 (K4),

Start 32:
• Found in 5 of 364 (1.4%) of genes in pham
• Manual Annotations of this start: 2 of 326
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Karkharias_37 (FA), PeggyLeg03_37 (FA), Pucara_34 (FA),

Start 33:
• Found in 1 of 364 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DatBoi_63 (DL),

Start 34:
• Found in 4 of 364 (1.1%) of genes in pham
• Manual Annotations of this start: 2 of 326
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Henrique_37 (FA), HotPotato_36 (FA), NikkiHotWheels_37 (FA),

Start 35:
• Found in 3 of 364 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amohnition_42 (K6), Ekdilam_39 (K6), November_40 (K6),

Start 36:
• Found in 19 of 364 (5.2%) of genes in pham
• Manual Annotations of this start: 4 of 326
• Called 26.3% of time when present
• Phage (with cluster) where this start called: Che9d_50 (F2), Demsculpinboyz_50 (F2), ThetaBob_45 (F4), Toron_41 (F6), Yoshi_54 (F2),

Start 38:
• Found in 22 of 364 (6.0%) of genes in pham
• Manual Annotations of this start: 22 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_41 (K6), Aminay_44 (K7), Applecrisp_40 (K6), Bryler_43 (K6), Cain_43 (K6), DS6A_56 (singleton), Ellie_39 (K6), Fefferhead_40 (K6), Krueger_46 (K6), Lavahound_41 (K6), PhelpsODU_42 (K6), Phrank_43 (K6), Shadow1_45 (K6), SirPhilip_42 (K6), Sunflower1121_46 (K6), Syra333_45 (K6), Tierra_43 (K6), Tigress9_45 (K6), TribleTrouble_40 (K3), Unicorn_42 (K6), Ximenita_46 (K6), Yuna_46 (K6),

Start 39:
• Found in 103 of 364 (28.3%) of genes in pham
• Manual Annotations of this start: 77 of 326
• Called 96.1% of time when present
• Phage (with cluster) where this start called: Acquire49_36 (L1), Aegeus_41 (L5), Appletree2_35 (L1), Archie_38 (L2), AvadaKedavra_36 (L1), Baoshan_37 (L2), Baudelaire_41 (L5), Bazzle_38 (L2), Bellis_36 (L3), BigCheese_38 (L2), BobsGarage_38 (L2), BourbonZero_35 (L3), BrainDrainer_36 (L4), Breezona_38 (L2), Bromden_37 (L4), Calm_36 (L1), Chaser_35 (L4), ChengKai98_38 (L2), ChutneyChips_37 (L4), CicholasNage_36 (L1), Clautastrophe_36 (L3), Crossroads_38 (L2), DHan_39 (L2), DirkDirk_35 (L1), Douge_35 (L4), Douzhi_35 (L4), DrSeegs_38 (L2), DuncansLeg_36 (L3), DyoEdafos_37 (L4), Ellson_36 (L3), Enceladus_35 (L1), Faith1_38 (L2), FarmResident_35 (L4), Finemlucis_38 (L2), Finnry_36 (L3), Gabriela_38 (L2), Gardann_38 (L2), GuuelaD_38 (L2), Hafay_38 (L2), Halena_35 (L1), Hiraya_38 (L2), Itos_38 (L2), Jobypre_36 (L3), JoeDirt_35 (L1), Jubie_36 (L3), Kahlid_38 (L2), Kingsolomon_36 (L3), KirDoubleO7_34 (L3), Kropertea_37 (L4), Krypton555_36 (L3), LeBron_36 (L1), Lewan_38 (L2), LilDestine_38 (L2), LiyuLake_36 (L3), Loadrie_38 (L2), Lolly9_36 (L3), Lumos_36 (L3), Lynnae_38 (L2), MAckerman_36 (L1), Miley16_38 (L2), MiniLon_36 (L3), MiniMac_36 (L3), MkaliMitinis3_38 (L2), Molivier_38 (L2), Moostard_36 (L3), MsGreen_36 (L3), Netyap_38 (L2), Nicholas_36 (L3), Nicholasp3_38 (L2),

OhShagHennessy_35 (L1), OverPar_39 (L2), PYPDinur_35 (L4), Poochiewood_35 (L1), Quby_35 (L4), Red305_36 (L3), Rose5_35 (L1), Rossetti_38 (L2), Rumpelstiltskin_38 (L2), Samty_36 (L3), Sarshaun_38 (L2), Sheng711_35 (L4), Silverleaf_35 (L1), Snenia_36 (L3), SoJulia_39 (L2), Tourach_38 (L2), TriFive_36 (L3), Tyson_35 (L1), UPIE_36 (L1), Underpass_38 (L2), Vetrix_38 (L2), Wamburgrxpress_36 (L1), Whirlwind_37 (L3), Wigglewiggle_38 (L2), Wilder_38 (L2), Winky_38 (L2), Wyatt2_36 (L1), Zakai_38 (L2), Zaria_36 (L1), ZhongYanYuan_37 (L2),

Start 40:
• Found in 1 of 364 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Boilgate_39 (K8),

Start 41:
• Found in 1 of 364 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_74 (CQ2),

Start 42:
• Found in 191 of 364 (52.5%) of genes in pham
• Manual Annotations of this start: 163 of 326
• Called 89.0% of time when present
• Phage (with cluster) where this start called: AlpineSix_45 (F1), ArcusAngelus_47 (F1), Aubs_41 (F1), Avani_50 (F2), Beanstalk_43 (F1), BearBQ_47 (DN), Blexus_41 (F1), BlueCrab_41 (F1), Bobquesha_46 (K4), BodEinwohner17_41 (F1), Boomer_46 (F1), BritBrat_36 (CY2), Bubbles123_40 (F1), Burwell21_43 (F1), BuzzLyseyear_48 (F1), Cabrinians_45 (F1), Che8_46 (F1), Chevrolet_50 (F1), Chuckly_42 (F1), Crumble_38 (F1), DaWorst_45 (F1), DaddyRickover_42 (F1), Daenerys_40 (F1), Dante_42 (F1), DarthP_42 (K6), Deb65_41 (F1), DillTech15_43 (F1), DirtMcgirt_41 (F1), Doomphist_43 (F1), Dorothy_40 (F1), DotProduct_40 (F1), Doug_43 (F1), Drago_42 (F1), Eish_43 (F1), EmiMonkey_40 (F1), Emmaloid_44 (F1), Empress_43 (F1), Fancypants_43 (F1), Fastidio_46 (F1), Firehouse51_42 (F1), Florinda_51 (F1), FreddyB_43 (F1), GAL1_31 (singleton), GUmbie_41 (F1), Gandalph_42 (F1), Geralt_41 (F1), GigiOuiOui_40 (F1), Girafales_51 (F1), Girr_44 (F1), Grimmer_50 (F1), Hammy_42 (K6), Hamulus_43 (F1), Harley_45 (F1), Hurricane_43 (K3), IbOuu_43 (F1), Ibhubesi_44 (F1), Inventum_40 (F1), JalFarm20_52 (F1), Jarcob_44 (F1), Jinglebell_44 (F1), Job42_44 (F1), JoeyJr_41 (F1), Juliette_47 (K4), Karhdo_42 (F1), Kersh_43 (F1), Keshu_44 (K3), Kimberlium_44 (F1), KingMidas_44 (F1), Koella_38 (F1), Krakatau_41 (F1), Kuwabara_46 (DN4), Latretium_45 (F1), Lea83_43 (K3), Lebo14_45 (K4), Leozinho_43 (F1), Leperchaun_38 (F1), LilMoolah_42 (F1), LittleShirley_43 (F1), Lizziana_50 (F1), Llama_45 (F1), Llij_40 (F1), Lucia_41 (F1), MacnCheese_44 (K3), MadMen_38 (F1), Madiba_39 (F1), Mahavrat_39 (F1), Malisha_44 (DN), Mantra_40 (F1), Maravista_42 (F1), Marker_43 (F1), Martik_44 (F1), MisterCuddles_43 (F1), Modragons_44 (F1), MortyNRick_43 (DN), MulchExplorer_44 (F1), Mwanjiwa_48 (F1), Nergal_38 (AG), Nichirin_45 (F1), Nimbo_40 (F1), Nitzel_39 (F1), Nivrat_42 (F1), Nolwazi_47 (K4), NormanBulbieJr_44 (F1), Ochi17_43 (F1), OfUltron_45 (F1), Ogopogo_44 (F1), Oksu_45 (F1), OldBen_41 (F1), OlympiaSaint_42 (F1), OwlsT2W_41 (F1), PHappiness_41 (F1), PMC_38 (F1), Pacc40_40 (F1), Peridot_44 (F1), PhaoMing_33 (UNK), Pharb_40 (K3), Phasih_41 (F1), Phatniss_41 (F1), PhlipPhlop_42 (F1), Pixie_42 (K3), Plumbus_43 (F1),

Poenanya_43 (F1), Polka14_42 (F1), Pollywog_42 (F1), PopTart_39 (F1), Priscilla_44 (F1), QuickMath_43 (F1), Quico_50 (F1), Radiance_42 (F1), Ramsey_44 (F1), RedBird_40 (F1), RitaG_41 (F1), Rockne_40 (F1), RockyHorror_44 (F1), Royals2015_43 (F1), Ruby_42 (F1), Sabbb_48 (F1), Sandalphon_45 (F1), Sassafras_42 (F1), SassyB_39 (F1), Scottish_43 (F1), Seabastian_45 (F1), Seagreen_44 (F1), ShedlockHolmes_43 (K3), ShiLan_44 (F1), ShowerHandel_45 (F1), SiSi_43 (F1), Slim_44 (F1), Sparkdehlily_45 (F1), Spikelee_48 (F1), Spooky_42 (DN2), Spoonbill_42 (F1), Squiddly_44 (DN2), Stap_42 (F1), Starcevich_43 (F1), TBond007_42 (K3), TDanisky_45 (F1), Taquito_45 (K4), Tchotchke_44 (F1), Tootsieroll_45 (F1), Topiatin_48 (F1), Totinger_42 (F1), Tweety_43 (F1), UncleRicky_43 (F1), Veteran_41 (F1), Vivum_46 (F1), Whitney_50 (DN1), Whouxphf_42 (F1), Yorick_40 (F1), Zerg_42 (F1),

Start 43:
• Found in 24 of 364 (6.6%) of genes in pham
• Manual Annotations of this start: 13 of 326
• Called 58.3% of time when present
• Phage (with cluster) where this start called: Aloeri_41 (F1), Awesomesauce_41 (F1), Bantam_64 (DL), ChickenDinner_41 (F1), DocMcStuffins_41 (F1), Frankie_47 (F1), Jace_26 (singleton), Misha28_40 (F1), Mollymur_63 (DL), MulchSalad_35 (F7), Nette_34 (T), Piper2020_41 (F1), SpeedDemon_660 (DL), TootsiePop_40 (F1),

Start 44:
• Found in 6 of 364 (1.6%) of genes in pham
• Manual Annotations of this start: 6 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anatole_28 (BV), B22_29 (BW), B3_28 (BV), E1_28 (BV), E6_28 (BW), G4_29 (BW),

Start 45:
• Found in 1 of 364 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CocoCinnamon_34 (FO),

Start 46:
• Found in 1 of 364 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doucette_31 (BW),

Start 47:
• Found in 2 of 364 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 326
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jabbawokkie_57 (F2), Zapner_55 (F2),

Start 48:
• Found in 1 of 364 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigAnti_31 (singleton),

Start 53:
• Found in 141 of 364 (38.7%) of genes in pham
• Manual Annotations of this start: 2 of 326
• Called 2.1% of time when present
• Phage (with cluster) where this start called: Claus_38 (L2), DanBing_38 (L2), Mendokysei_31 (T),

Start 55:
• Found in 107 of 364 (29.4%) of genes in pham
• No Manual Annotations of this start.
• Called 0.9% of time when present
• Phage (with cluster) where this start called: Soap141_38 (L2),

Start 59:
• Found in 27 of 364 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 326
• Called 7.4% of time when present
• Phage (with cluster) where this start called: OmniCritical_44 (K4), YasnayaPolyana_45 (K4),

Summary by clusters:

There are 30 clusters represented in this pham: DN, DL, singleton, K3, FA, BV, BW, K7, K6, K4, K8, FO, DN4, DN1, DN2, CQ2, CY2, AG, L4, L5, L2, T, L1, UNK, F1, F2, F4, F6, F7, L3,

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

Info for manual annotations of cluster BV:
•Start number 44 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster BW:
•Start number 44 was manually annotated 3 times for cluster BW.
•Start number 46 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster CQ2:
•Start number 41 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CY2:
•Start number 42 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DL:
•Start number 33 was manually annotated 1 time for cluster DL.
•Start number 43 was manually annotated 3 times for cluster DL.

Info for manual annotations of cluster DN:
•Start number 42 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 42 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN2:

•Start number 42 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN4:
•Start number 42 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster F1:
•Start number 42 was manually annotated 140 times for cluster F1.
•Start number 43 was manually annotated 8 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 36 was manually annotated 3 times for cluster F2.
•Start number 42 was manually annotated 1 time for cluster F2.
•Start number 47 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 36 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F7:
•Start number 43 was manually annotated 1 time for cluster F7.

Info for manual annotations of cluster FA:
•Start number 32 was manually annotated 2 times for cluster FA.
•Start number 34 was manually annotated 2 times for cluster FA.

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

Info for manual annotations of cluster K3:
•Start number 38 was manually annotated 1 time for cluster K3.
•Start number 42 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 19 was manually annotated 1 time for cluster K4.
•Start number 27 was manually annotated 16 times for cluster K4.
•Start number 42 was manually annotated 3 times for cluster K4.
•Start number 59 was manually annotated 2 times for cluster K4.

Info for manual annotations of cluster K6:
•Start number 35 was manually annotated 3 times for cluster K6.
•Start number 38 was manually annotated 19 times for cluster K6.
•Start number 42 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 38 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 40 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L1:
•Start number 39 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:

•Start number 39 was manually annotated 31 times for cluster L2.
•Start number 53 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:
•Start number 39 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 39 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 39 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster T:
•Start number 14 was manually annotated 1 time for cluster T.
•Start number 23 was manually annotated 4 times for cluster T.
•Start number 26 was manually annotated 1 time for cluster T.
•Start number 53 was manually annotated 1 time for cluster T.

Gene Information:

Gene: Acquire49_36 Start: 30284, Stop: 31591, Start Num: 39
Candidate Starts for Acquire49_36:
(Start: 39 @30284 has 77 MA's), (55, 30374), (57, 30380), (71, 30473), (103, 30662), (104, 30671), (107, 30683), (125, 30758), (127, 30770), (128, 30782), (129, 30785), (132, 30800), (138, 30827), (161, 30953), (172, 31019), (175, 31040), (225, 31223), (226, 31229), (238, 31259), (249, 31301), (269, 31409), (272, 31439), (283, 31484), (287, 31502), (291, 31526), (293, 31538),

Gene: Aegeus_41 Start: 34150, Stop: 35448, Start Num: 39
Candidate Starts for Aegeus_41:
(Start: 39 @34150 has 77 MA's), (69, 34327), (70, 34330), (88, 34429), (95, 34480), (99, 34498), (103, 34528), (104, 34537), (120, 34615), (125, 34627), (128, 34651), (129, 34654), (148, 34744), (155, 34792), (157, 34807), (167, 34867), (172, 34885), (174, 34894), (175, 34906), (226, 35098), (229, 35107), (230, 35110), (237, 35125), (249, 35173), (268, 35278), (269, 35281), (274, 35317), (283, 35356), (284, 35365), (287, 35374), (291, 35398), (299, 35434),

Gene: Aloeri_41 Start: 31599, Stop: 32870, Start Num: 43
Candidate Starts for Aloeri_41:
(Start: 43 @31599 has 13 MA's), (54, 31662), (60, 31716), (62, 31725), (65, 31743), (79, 31812), (80, 31824), (103, 31962), (131, 32073), (143, 32136), (156, 32190), (173, 32283), (211, 32484), (225, 32526), (226, 32532), (230, 32544), (236, 32556), (240, 32565), (243, 32571), (247, 32589), (249, 32592), (258, 32652), (262, 32670), (267, 32691), (276, 32745), (281, 32763), (286, 32787), (294, 32832), (296, 32841), (303, 32862),

Gene: AlpineSix_45 Start: 33145, Stop: 34455, Start Num: 42
Candidate Starts for AlpineSix_45:
(Start: 42 @33145 has 163 MA's), (54, 33211), (60, 33265), (65, 33292), (79, 33361), (80, 33373), (103, 33511), (128, 33607), (131, 33622), (134, 33631), (143, 33685), (152, 33718), (156, 33739), (175, 33850), (185, 33925), (211, 34036), (213, 34039), (225, 34078), (226, 34084), (227, 34087), (230, 34096), (232, 34102), (236, 34108), (247, 34141), (249, 34144), (255, 34192), (258, 34204), (262, 34222), (267, 34243), (272, 34279), (276, 34297), (281, 34315), (283, 34324), (286, 34339),

(296, 34393),

Gene: Amgine_41 Start: 33316, Stop: 34692, Start Num: 38
Candidate Starts for Amgine_41:
(Start: 38 @33316 has 22 MA's), (Start: 53 @33391 has 2 MA's), (77, 33541), (84, 33580), (88, 33595), (103, 33694), (104, 33703), (127, 33784), (174, 34039), (175, 34051), (177, 34060), (192, 34135), (207, 34195), (214, 34216), (222, 34243), (224, 34249), (226, 34258), (249, 34333), (262, 34414), (316, 34669),

Gene: Aminay_44 Start: 33976, Stop: 35307, Start Num: 38
Candidate Starts for Aminay_44:
(21, 33937), (Start: 38 @33976 has 22 MA's), (Start: 53 @34048 has 2 MA's), (54, 34054), (73, 34177), (77, 34198), (79, 34204), (82, 34228), (84, 34237), (103, 34351), (104, 34360), (109, 34378), (134, 34477), (135, 34480), (175, 34720), (188, 34807), (202, 34861), (206, 34882), (211, 34900), (225, 34942), (226, 34948), (249, 35023), (258, 35086), (262, 35104), (273, 35167), (286, 35224), (288, 35230), (304, 35299),

Gene: Amohnition_42 Start: 33014, Stop: 34399, Start Num: 35
Candidate Starts for Amohnition_42:
(Start: 35 @33014 has 3 MA's), (60, 33149), (68, 33194), (77, 33242), (84, 33281), (88, 33296), (103, 33395), (104, 33404), (127, 33485), (174, 33740), (175, 33752), (177, 33761), (192, 33836), (207, 33896), (214, 33917), (222, 33944), (224, 33950), (226, 33959), (249, 34034), (262, 34115), (316, 34373),

Gene: Anatole_28 Start: 21218, Stop: 22537, Start Num: 44
Candidate Starts for Anatole_28:
(6, 21068), (7, 21077), (10, 21116), (15, 21146), (22, 21167), (29, 21185), (Start: 36 @21197 has 4 MA's), (Start: 44 @21218 has 6 MA's), (49, 21227), (60, 21341), (74, 21419), (75, 21425), (91, 21521), (92, 21524), (133, 21716), (168, 21905), (171, 21914), (180, 21968), (215, 22130), (230, 22181), (249, 22238), (271, 22373), (279, 22409), (297, 22496), (299, 22502),

Gene: Applecrisp_40 Start: 32813, Stop: 34189, Start Num: 38
Candidate Starts for Applecrisp_40:
(Start: 38 @32813 has 22 MA's), (Start: 53 @32888 has 2 MA's), (77, 33038), (84, 33077), (88, 33092), (103, 33191), (104, 33200), (127, 33281), (174, 33536), (175, 33548), (177, 33557), (192, 33632), (207, 33692), (214, 33713), (222, 33740), (224, 33746), (226, 33755), (249, 33830), (262, 33911), (316, 34166),

Gene: Appletree2_35 Start: 30226, Stop: 31533, Start Num: 39
Candidate Starts for Appletree2_35:
(Start: 39 @30226 has 77 MA's), (55, 30316), (57, 30322), (71, 30415), (103, 30604), (104, 30613), (107, 30625), (125, 30700), (127, 30712), (128, 30724), (129, 30727), (132, 30742), (138, 30769), (161, 30895), (172, 30961), (175, 30982), (225, 31165), (226, 31171), (238, 31201), (249, 31243), (269, 31351), (272, 31381), (283, 31426), (287, 31444), (291, 31468), (293, 31480),

Gene: Archie_38 Start: 31865, Stop: 33166, Start Num: 39
Candidate Starts for Archie_38:
(Start: 39 @31865 has 77 MA's), (Start: 53 @31937 has 2 MA's), (71, 32051), (80, 32108), (93, 32183), (103, 32240), (131, 32375), (161, 32531), (166, 32564), (172, 32597), (175, 32618), (201, 32717), (226, 32807), (238, 32837), (249, 32879), (257, 32939), (259, 32945), (267, 32981), (268, 32984), (269, 32987), (272, 33017), (274, 33023), (283, 33062), (287, 33080), (292, 33110), (293, 33116),

Gene: ArcusAngelus_47 Start: 34275, Stop: 35576, Start Num: 42

Candidate Starts for ArcusAngelus_47:
(Start: 42 @34275 has 163 MA's), (54, 34341), (60, 34395), (62, 34404), (65, 34422), (79, 34491), (80, 34503), (103, 34641), (128, 34737), (131, 34752), (134, 34761), (143, 34815), (152, 34848), (156, 34869), (175, 34980), (185, 35055), (211, 35166), (213, 35169), (225, 35208), (226, 35214), (227, 35217), (230, 35226), (232, 35232), (236, 35238), (247, 35271), (249, 35274), (255, 35322), (258, 35334), (262, 35352), (267, 35373), (272, 35409), (276, 35427), (281, 35445), (286, 35469), (296, 35523),

Gene: Aubs_41 Start: 31765, Stop: 33054, Start Num: 42
Candidate Starts for Aubs_41:
(Start: 42 @31765 has 163 MA's), (54, 31831), (60, 31885), (62, 31894), (65, 31912), (79, 31981), (80, 31993), (103, 32131), (128, 32227), (131, 32242), (134, 32251), (143, 32305), (152, 32338), (156, 32359), (175, 32470), (185, 32545), (211, 32656), (213, 32659), (225, 32698), (226, 32704), (227, 32707), (230, 32716), (232, 32722), (236, 32728), (247, 32761), (249, 32764), (255, 32812), (258, 32824), (262, 32842), (267, 32863), (272, 32899), (276, 32917), (281, 32935), (283, 32944), (286, 32959), (296, 33013),

Gene: AvadaKedavra_36 Start: 30293, Stop: 31600, Start Num: 39
Candidate Starts for AvadaKedavra_36:
(Start: 39 @30293 has 77 MA's), (55, 30383), (57, 30389), (71, 30482), (103, 30671), (104, 30680), (107, 30692), (125, 30767), (127, 30779), (128, 30791), (129, 30794), (132, 30809), (138, 30836), (161, 30962), (172, 31028), (175, 31049), (225, 31232), (226, 31238), (238, 31268), (249, 31310), (269, 31418), (272, 31448), (283, 31493), (287, 31511), (291, 31535), (293, 31547),

Gene: Avani_50 Start: 32075, Stop: 33376, Start Num: 42
Candidate Starts for Avani_50:
(Start: 42 @32075 has 163 MA's), (54, 32141), (60, 32195), (65, 32222), (79, 32291), (80, 32303), (103, 32441), (128, 32537), (131, 32552), (134, 32561), (143, 32615), (152, 32648), (156, 32669), (175, 32780), (185, 32855), (211, 32966), (213, 32969), (225, 33008), (226, 33014), (227, 33017), (232, 33032), (247, 33071), (249, 33074), (255, 33122), (258, 33134), (262, 33152), (267, 33173), (272, 33209), (276, 33227), (281, 33245), (286, 33269), (296, 33323),

Gene: Awesomesauce_41 Start: 30861, Stop: 32132, Start Num: 43
Candidate Starts for Awesomesauce_41:
(Start: 43 @30861 has 13 MA's), (54, 30924), (60, 30978), (62, 30987), (65, 31005), (79, 31074), (80, 31086), (103, 31224), (131, 31335), (143, 31398), (156, 31452), (173, 31545), (211, 31746), (225, 31788), (226, 31794), (230, 31806), (236, 31818), (240, 31827), (243, 31833), (247, 31851), (249, 31854), (258, 31914), (262, 31932), (267, 31953), (276, 32007), (281, 32025), (286, 32049), (294, 32094), (296, 32103), (303, 32124),

Gene: B22_29 Start: 20933, Stop: 22252, Start Num: 44
Candidate Starts for B22_29:
(6, 20783), (7, 20792), (10, 20831), (15, 20861), (22, 20882), (29, 20900), (Start: 36 @20912 has 4 MA's), (Start: 44 @20933 has 6 MA's), (49, 20942), (60, 21056), (74, 21134), (75, 21140), (91, 21236), (92, 21239), (133, 21431), (168, 21620), (171, 21629), (180, 21683), (215, 21845), (230, 21896), (249, 21953), (271, 22088), (279, 22124), (297, 22211), (299, 22217),

Gene: B3_28 Start: 21212, Stop: 22531, Start Num: 44
Candidate Starts for B3_28:
(6, 21062), (7, 21071), (10, 21110), (15, 21140), (22, 21161), (29, 21179), (Start: 36 @21191 has 4 MA's), (Start: 44 @21212 has 6 MA's), (49, 21221), (60, 21335), (74, 21413), (75, 21419), (91, 21515), (92, 21518), (133, 21710), (168, 21899), (171, 21908), (180, 21962), (215, 22124), (230, 22175), (249, 22232), (271, 22367), (279, 22403), (297, 22490), (299, 22496),

Gene: Bantam_64 Start: 47224, Stop: 48609, Start Num: 43
Candidate Starts for Bantam_64:
(Start: 32 @47200 has 2 MA's), (Start: 43 @47224 has 13 MA's), (Start: 53 @47290 has 2 MA's), (82, 47467), (99, 47560), (104, 47599), (110, 47644), (112, 47653), (121, 47704), (122, 47707), (123, 47710), (127, 47734), (131, 47761), (135, 47779), (137, 47794), (138, 47797), (167, 47950), (176, 47995), (184, 48040), (189, 48055), (197, 48094), (214, 48145), (220, 48166), (226, 48187), (242, 48226), (273, 48391), (275, 48400), (279, 48418), (281, 48424), (299, 48511), (305, 48529), (309, 48565),

Gene: Baoshan_37 Start: 31494, Stop: 32801, Start Num: 39
Candidate Starts for Baoshan_37:
(Start: 19 @31449 has 1 MA's), (Start: 39 @31494 has 77 MA's), (Start: 53 @31566 has 2 MA's), (63, 31644), (76, 31716), (79, 31725), (103, 31869), (104, 31878), (131, 32004), (161, 32160), (166, 32193), (173, 32229), (175, 32247), (177, 32256), (226, 32439), (238, 32469), (247, 32508), (249, 32511), (257, 32571), (259, 32577), (267, 32613), (268, 32616), (269, 32619), (274, 32655), (279, 32679), (283, 32694), (287, 32712), (292, 32742),

Gene: Baudelaire_41 Start: 34150, Stop: 35448, Start Num: 39
Candidate Starts for Baudelaire_41:
(Start: 39 @34150 has 77 MA's), (69, 34327), (70, 34330), (88, 34429), (95, 34480), (99, 34498), (103, 34528), (104, 34537), (120, 34615), (125, 34627), (128, 34651), (129, 34654), (148, 34744), (155, 34792), (157, 34807), (167, 34867), (172, 34885), (174, 34894), (175, 34906), (226, 35098), (229, 35107), (230, 35110), (237, 35125), (249, 35173), (268, 35278), (269, 35281), (274, 35317), (283, 35356), (284, 35365), (287, 35374), (291, 35398), (299, 35434),

Gene: Bazzle_38 Start: 31899, Stop: 33203, Start Num: 39
Candidate Starts for Bazzle_38:
(Start: 19 @31854 has 1 MA's), (Start: 39 @31899 has 77 MA's), (55, 31986), (63, 32049), (80, 32142), (92, 32211), (103, 32274), (104, 32283), (131, 32409), (161, 32565), (166, 32598), (172, 32631), (175, 32652), (192, 32718), (226, 32841), (238, 32871), (249, 32913), (257, 32973), (259, 32979), (267, 33015), (268, 33018), (269, 33021), (272, 33051), (274, 33057), (283, 33096), (287, 33114), (292, 33144), (293, 33150),

Gene: Beanstalk_43 Start: 31626, Stop: 32915, Start Num: 42
Candidate Starts for Beanstalk_43:
(Start: 42 @31626 has 163 MA's), (54, 31692), (60, 31746), (62, 31755), (65, 31773), (79, 31842), (80, 31854), (103, 31992), (125, 32064), (128, 32088), (131, 32103), (134, 32112), (143, 32166), (152, 32199), (156, 32220), (175, 32331), (185, 32406), (211, 32517), (213, 32520), (225, 32559), (226, 32565), (227, 32568), (230, 32577), (232, 32583), (236, 32589), (247, 32622), (249, 32625), (255, 32673), (258, 32685), (262, 32703), (267, 32724), (272, 32760), (276, 32778), (281, 32796), (283, 32805), (286, 32820), (296, 32874),

Gene: BearBQ_47 Start: 33640, Stop: 34851, Start Num: 42
Candidate Starts for BearBQ_47:
(Start: 42 @33640 has 163 MA's), (Start: 53 @33703 has 2 MA's), (54, 33709), (68, 33793), (89, 33907), (98, 33952), (103, 33991), (104, 34000), (125, 34072), (127, 34084), (135, 34123), (142, 34168), (146, 34186), (165, 34273), (169, 34306), (183, 34378), (200, 34450), (216, 34483), (218, 34492), (221, 34501), (249, 34558), (260, 34627), (262, 34639), (263, 34642), (265, 34651), (276, 34717), (281, 34735), (288, 34765),

Gene: Bellis_36 Start: 31900, Stop: 33192, Start Num: 39
Candidate Starts for Bellis_36:

(11, 31816), (18, 31849), (Start: 39 @31900 has 77 MA's), (Start: 53 @31975 has 2 MA's), (55, 31990), (104, 32287), (128, 32383), (136, 32416), (157, 32542), (161, 32554), (173, 32623), (226, 32830), (243, 32872), (249, 32902), (257, 32962), (268, 33007), (269, 33010), (272, 33040), (283, 33085), (287, 33103), (291, 33127), (293, 33139),

Gene: Bernal13_33 Start: 27804, Stop: 29102, Start Num: 23
Candidate Starts for Bernal13_33:
(Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: BigAnti_31 Start: 34903, Stop: 36129, Start Num: 48
Candidate Starts for BigAnti_31:
(48, 34903), (51, 34912), (52, 34936), (Start: 59 @35017 has 2 MA's), (79, 35113), (82, 35137), (92, 35197), (95, 35212), (98, 35221), (103, 35260), (106, 35281), (114, 35311), (116, 35320), (119, 35332), (161, 35518), (167, 35566), (179, 35623), (191, 35701), (195, 35719), (230, 35806), (238, 35824), (247, 35857), (249, 35860), (253, 35893), (259, 35926), (262, 35941), (264, 35950), (273, 35989), (283, 36031), (290, 36067), (293, 36085), (296, 36100), (299, 36109), (304, 36118),

Gene: BigCheese_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for BigCheese_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: Blexus_41 Start: 32016, Stop: 33305, Start Num: 42
Candidate Starts for Blexus_41:
(Start: 42 @32016 has 163 MA's), (54, 32082), (60, 32136), (65, 32163), (79, 32232), (80, 32244), (103, 32382), (128, 32478), (131, 32493), (134, 32502), (143, 32556), (152, 32589), (156, 32610), (175, 32721), (185, 32796), (211, 32907), (213, 32910), (225, 32949), (226, 32955), (227, 32958), (230, 32967), (232, 32973), (236, 32979), (247, 33012), (249, 33015), (255, 33063), (258, 33075), (262, 33093), (267, 33114), (272, 33150), (276, 33168), (281, 33186), (283, 33195), (286, 33210), (296, 33264),

Gene: BlueCrab_41 Start: 31731, Stop: 33032, Start Num: 42
Candidate Starts for BlueCrab_41:
(Start: 42 @31731 has 163 MA's), (54, 31797), (60, 31851), (62, 31860), (65, 31878), (79, 31947), (80, 31959), (103, 32097), (128, 32193), (131, 32208), (134, 32217), (143, 32271), (152, 32304), (156, 32325), (175, 32436), (185, 32511), (211, 32622), (213, 32625), (225, 32664), (226, 32670), (227, 32673), (230, 32682), (232, 32688), (236, 32694), (247, 32727), (249, 32730), (255, 32778), (258, 32790), (262, 32808), (267, 32829), (272, 32865), (276, 32883), (281, 32901), (283, 32910), (286, 32925), (296, 32979),

Gene: Bobquesha_46 Start: 32946, Stop: 34181, Start Num: 42
Candidate Starts for Bobquesha_46:
(Start: 27 @32916 has 16 MA's), (30, 32928), (Start: 42 @32946 has 163 MA's), (Start: 53 @33003 has 2 MA's), (Start: 59 @33057 has 2 MA's), (71, 33117), (77, 33150), (88, 33201), (103, 33300), (104, 33309), (107, 33321), (129, 33405), (135, 33429), (175, 33651), (177, 33660), (178, 33669), (192, 33720), (208, 33783), (234, 33864), (249, 33912), (257, 33972), (259, 33978), (267, 34002), (280,

34071), (286, 34098), (288, 34104), (293, 34137),

Gene: BobsGarage_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for BobsGarage_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: BodEinwohner17_41 Start: 31958, Stop: 33247, Start Num: 42
Candidate Starts for BodEinwohner17_41:
(Start: 42 @31958 has 163 MA's), (54, 32024), (60, 32078), (65, 32105), (79, 32174), (80, 32186), (103, 32324), (125, 32396), (128, 32420), (131, 32435), (134, 32444), (143, 32498), (152, 32531), (156, 32552), (175, 32663), (185, 32738), (211, 32849), (213, 32852), (225, 32891), (226, 32897), (227, 32900), (230, 32909), (232, 32915), (236, 32921), (247, 32954), (249, 32957), (255, 33005), (258, 33017), (262, 33035), (267, 33056), (272, 33092), (276, 33110), (281, 33128), (283, 33137), (286, 33152), (296, 33206),

Gene: Boilgate_39 Start: 33424, Stop: 34686, Start Num: 40
Candidate Starts for Boilgate_39:
(Start: 40 @33424 has 1 MA's), (Start: 53 @33493 has 2 MA's), (57, 33514), (77, 33640), (100, 33766), (104, 33799), (107, 33811), (129, 33895), (172, 34120), (177, 34150), (219, 34309), (224, 34324), (225, 34327), (230, 34345), (234, 34354), (236, 34357), (249, 34402), (262, 34483), (274, 34534), (286, 34588), (288, 34594), (292, 34621), (293, 34627), (303, 34663),

Gene: Boomer_46 Start: 33186, Stop: 34475, Start Num: 42
Candidate Starts for Boomer_46:
(Start: 42 @33186 has 163 MA's), (54, 33252), (60, 33306), (62, 33315), (65, 33333), (79, 33402), (80, 33414), (103, 33552), (125, 33624), (128, 33648), (131, 33663), (134, 33672), (143, 33726), (152, 33759), (156, 33780), (175, 33891), (185, 33966), (211, 34077), (213, 34080), (225, 34119), (226, 34125), (227, 34128), (230, 34137), (232, 34143), (236, 34149), (247, 34182), (249, 34185), (255, 34233), (258, 34245), (262, 34263), (267, 34284), (272, 34320), (276, 34338), (281, 34356), (283, 34365), (286, 34380), (296, 34434),

Gene: BourbonZero_35 Start: 31860, Stop: 33164, Start Num: 39
Candidate Starts for BourbonZero_35:
(Start: 39 @31860 has 77 MA's), (55, 31947), (57, 31953), (80, 32103), (103, 32235), (104, 32244), (127, 32343), (136, 32388), (157, 32514), (161, 32526), (173, 32595), (193, 32685), (211, 32754), (226, 32802), (243, 32844), (249, 32874), (257, 32934), (259, 32940), (268, 32979), (269, 32982), (272, 33012), (283, 33057), (287, 33075), (291, 33099), (293, 33111),

Gene: BrainDrainer_36 Start: 30535, Stop: 31842, Start Num: 39
Candidate Starts for BrainDrainer_36:
(Start: 27 @30514 has 16 MA's), (Start: 39 @30535 has 77 MA's), (Start: 53 @30610 has 2 MA's), (55, 30625), (63, 30688), (66, 30697), (83, 30793), (92, 30847), (103, 30910), (104, 30919), (124, 31000), (133, 31051), (135, 31057), (140, 31093), (161, 31201), (173, 31270), (175, 31288), (177, 31297), (184, 31339), (198, 31384), (224, 31471), (226, 31480), (243, 31522), (249, 31552), (257, 31612), (259, 31618), (262, 31633), (272, 31690), (283, 31735), (287, 31753), (292, 31783),

Gene: Breezona_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Breezona_38:

(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: BritBrat_36 Start: 31287, Stop: 32501, Start Num: 42
Candidate Starts for BritBrat_36:
(Start: 42 @31287 has 163 MA's), (Start: 53 @31353 has 2 MA's), (54, 31359), (68, 31443), (104, 31650), (108, 31662), (118, 31707), (125, 31722), (127, 31734), (135, 31773), (165, 31923), (194, 32079), (217, 32139), (218, 32142), (221, 32151), (246, 32205), (249, 32208), (260, 32277), (263, 32292), (273, 32352), (281, 32385), (288, 32415),

Gene: Bromden_37 Start: 31082, Stop: 32389, Start Num: 39
Candidate Starts for Bromden_37:
(Start: 27 @31061 has 16 MA's), (Start: 39 @31082 has 77 MA's), (55, 31172), (66, 31244), (83, 31340), (103, 31457), (104, 31466), (124, 31547), (133, 31598), (135, 31604), (147, 31670), (157, 31736), (161, 31748), (173, 31817), (175, 31835), (184, 31886), (192, 31904), (226, 32027), (243, 32069), (249, 32099), (257, 32159), (259, 32165), (269, 32207), (272, 32237), (283, 32282), (287, 32300), (292, 32330), (296, 32351),

Gene: Bryler_43 Start: 31802, Stop: 33181, Start Num: 38
Candidate Starts for Bryler_43:
(21, 31772), (Start: 38 @31802 has 22 MA's), (Start: 53 @31877 has 2 MA's), (60, 31934), (77, 32027), (88, 32081), (103, 32180), (104, 32189), (105, 32192), (166, 32480), (174, 32522), (175, 32534), (177, 32543), (192, 32618), (207, 32678), (214, 32699), (222, 32726), (224, 32732), (226, 32741), (255, 32867), (258, 32879), (262, 32897), (279, 32987), (314, 33146),

Gene: Bubbles123_40 Start: 32413, Stop: 33714, Start Num: 42
Candidate Starts for Bubbles123_40:
(9, 32287), (10, 32314), (28, 32380), (31, 32392), (Start: 42 @32413 has 163 MA's), (54, 32479), (60, 32533), (62, 32542), (65, 32560), (79, 32629), (80, 32641), (103, 32779), (128, 32875), (131, 32890), (134, 32899), (143, 32953), (152, 32986), (156, 33007), (175, 33118), (185, 33193), (211, 33304), (213, 33307), (225, 33346), (226, 33352), (227, 33355), (230, 33364), (232, 33370), (236, 33376), (247, 33409), (249, 33412), (255, 33460), (258, 33472), (262, 33490), (267, 33511), (272, 33547), (276, 33565), (281, 33583), (283, 33592), (286, 33607), (296, 33661),

Gene: Burwell21_43 Start: 33220, Stop: 34521, Start Num: 42
Candidate Starts for Burwell21_43:
(Start: 42 @33220 has 163 MA's), (54, 33286), (60, 33340), (62, 33349), (65, 33367), (79, 33436), (80, 33448), (103, 33586), (125, 33658), (128, 33682), (131, 33697), (134, 33706), (143, 33760), (152, 33793), (156, 33814), (175, 33925), (185, 34000), (211, 34111), (213, 34114), (225, 34153), (226, 34159), (227, 34162), (230, 34171), (232, 34177), (236, 34183), (247, 34216), (249, 34219), (255, 34267), (258, 34279), (262, 34297), (267, 34318), (272, 34354), (276, 34372), (281, 34390), (283, 34399), (286, 34414), (296, 34468),

Gene: BuzzLyseyear_48 Start: 33537, Stop: 34835, Start Num: 42
Candidate Starts for BuzzLyseyear_48:
(Start: 42 @33537 has 163 MA's), (54, 33603), (60, 33657), (65, 33684), (79, 33753), (80, 33765), (81, 33768), (103, 33903), (128, 33999), (131, 34014), (134, 34023), (143, 34077), (152, 34110), (156, 34131), (175, 34242), (185, 34317), (211, 34428), (213, 34431), (226, 34476), (227, 34479), (230, 34488), (232, 34494), (236, 34500), (247, 34533), (249, 34536), (255, 34584), (258, 34596), (262, 34614), (267, 34635), (272, 34671), (276, 34689), (281, 34707), (283, 34716), (286, 34731), (296,

34785),

Gene: Cabrinians_45 Start: 33298, Stop: 34599, Start Num: 42
Candidate Starts for Cabrinians_45:
(Start: 42 @33298 has 163 MA's), (54, 33364), (60, 33418), (62, 33427), (65, 33445), (79, 33514), (80, 33526), (103, 33664), (125, 33736), (128, 33760), (131, 33775), (134, 33784), (143, 33838), (152, 33871), (156, 33892), (175, 34003), (185, 34078), (211, 34189), (213, 34192), (225, 34231), (226, 34237), (227, 34240), (230, 34249), (232, 34255), (236, 34261), (247, 34294), (249, 34297), (255, 34345), (258, 34357), (262, 34375), (267, 34396), (272, 34432), (276, 34450), (281, 34468), (283, 34477), (286, 34492), (296, 34546),

Gene: Cain_43 Start: 31790, Stop: 33169, Start Num: 38
Candidate Starts for Cain_43:
(21, 31760), (Start: 38 @31790 has 22 MA's), (Start: 53 @31865 has 2 MA's), (60, 31922), (77, 32015), (88, 32069), (103, 32168), (104, 32177), (105, 32180), (166, 32468), (174, 32510), (175, 32522), (177, 32531), (192, 32606), (207, 32666), (214, 32687), (222, 32714), (224, 32720), (226, 32729), (255, 32855), (258, 32867), (262, 32885), (279, 32975), (314, 33134),

Gene: Calm_36 Start: 30299, Stop: 31606, Start Num: 39
Candidate Starts for Calm_36:
(Start: 39 @30299 has 77 MA's), (55, 30389), (57, 30395), (71, 30488), (103, 30677), (104, 30686), (107, 30698), (125, 30773), (127, 30785), (128, 30797), (129, 30800), (132, 30815), (138, 30842), (161, 30968), (172, 31034), (175, 31055), (225, 31238), (226, 31244), (238, 31274), (249, 31316), (269, 31424), (272, 31454), (283, 31499), (287, 31517), (291, 31541), (293, 31553),

Gene: Chancellor_45 Start: 33531, Stop: 34796, Start Num: 27
Candidate Starts for Chancellor_45:
(Start: 19 @33510 has 1 MA's), (Start: 27 @33531 has 16 MA's), (30, 33543), (Start: 42 @33561 has 163 MA's), (Start: 53 @33618 has 2 MA's), (Start: 59 @33672 has 2 MA's), (63, 33696), (77, 33765), (88, 33816), (103, 33915), (104, 33924), (107, 33936), (128, 34017), (135, 34044), (175, 34266), (177, 34275), (178, 34284), (192, 34335), (208, 34398), (230, 34470), (234, 34479), (249, 34527), (267, 34617), (279, 34683), (280, 34686), (286, 34713), (288, 34719), (291, 34740), (293, 34752),

Gene: Chaser_35 Start: 30352, Stop: 31659, Start Num: 39
Candidate Starts for Chaser_35:
(Start: 27 @30331 has 16 MA's), (Start: 39 @30352 has 77 MA's), (55, 30442), (66, 30514), (83, 30610), (92, 30664), (103, 30727), (104, 30736), (124, 30817), (133, 30868), (135, 30874), (138, 30892), (140, 30910), (161, 31018), (173, 31087), (175, 31105), (177, 31114), (184, 31156), (198, 31201), (224, 31288), (226, 31297), (243, 31339), (249, 31369), (257, 31429), (259, 31435), (262, 31450), (272, 31507), (283, 31552), (287, 31570), (292, 31600),

Gene: Che8_46 Start: 32978, Stop: 34288, Start Num: 42
Candidate Starts for Che8_46:
(Start: 42 @32978 has 163 MA's), (54, 33044), (60, 33098), (62, 33107), (65, 33125), (79, 33194), (80, 33206), (103, 33344), (128, 33440), (131, 33455), (134, 33464), (143, 33518), (152, 33551), (156, 33572), (175, 33683), (185, 33758), (211, 33869), (213, 33872), (225, 33911), (226, 33917), (227, 33920), (230, 33929), (232, 33935), (236, 33941), (247, 33974), (249, 33977), (255, 34025), (258, 34037), (262, 34055), (267, 34076), (272, 34112), (276, 34130), (281, 34148), (286, 34172), (296, 34226),

Gene: Che9d_50 Start: 32834, Stop: 31560, Start Num: 36
Candidate Starts for Che9d_50:

(Start: 36 @32834 has 4 MA's), (56, 32735), (79, 32603), (92, 32519), (104, 32450), (117, 32402), (125, 32384), (127, 32372), (131, 32345), (132, 32342), (137, 32318), (147, 32267), (154, 32237), (157, 32219), (158, 32216), (166, 32174), (175, 32120), (177, 32111), (181, 32081), (182, 32072), (198, 32027), (202, 32018), (204, 32012), (209, 31991), (210, 31988), (211, 31979), (213, 31976), (227, 31928), (230, 31919), (240, 31898), (249, 31859), (251, 31832), (258, 31796), (261, 31784), (267, 31757), (269, 31751), (272, 31721), (276, 31703), (281, 31685), (283, 31676), (288, 31655), (289, 31646), (296, 31607), (299, 31598), (300, 31595), (302, 31589), (306, 31568),

Gene: Cheetobro_45 Start: 33528, Stop: 34793, Start Num: 27
Candidate Starts for Cheetobro_45:
(Start: 19 @33507 has 1 MA's), (Start: 27 @33528 has 16 MA's), (30, 33540), (Start: 42 @33558 has 163 MA's), (Start: 53 @33615 has 2 MA's), (Start: 59 @33669 has 2 MA's), (63, 33693), (77, 33762), (88, 33813), (103, 33912), (104, 33921), (107, 33933), (128, 34014), (135, 34041), (175, 34263), (177, 34272), (178, 34281), (192, 34332), (208, 34395), (230, 34467), (234, 34476), (249, 34524), (267, 34614), (279, 34680), (280, 34683), (286, 34710), (288, 34716), (291, 34737), (293, 34749),

Gene: ChengKai98_38 Start: 31657, Stop: 32964, Start Num: 39
Candidate Starts for ChengKai98_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (55, 31744), (63, 31807), (71, 31843), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (173, 32392), (175, 32410), (177, 32419), (226, 32602), (238, 32632), (247, 32671), (249, 32674), (257, 32734), (259, 32740), (265, 32764), (268, 32779), (269, 32782), (279, 32842), (283, 32857), (287, 32875), (292, 32905), (293, 32911),

Gene: Chevrolet_50 Start: 34276, Stop: 35577, Start Num: 42
Candidate Starts for Chevrolet_50:
(Start: 42 @34276 has 163 MA's), (54, 34342), (60, 34396), (62, 34405), (65, 34423), (79, 34492), (80, 34504), (103, 34642), (128, 34738), (131, 34753), (134, 34762), (143, 34816), (152, 34849), (156, 34870), (175, 34981), (185, 35056), (211, 35167), (213, 35170), (225, 35209), (226, 35215), (227, 35218), (230, 35227), (232, 35233), (236, 35239), (247, 35272), (249, 35275), (255, 35323), (258, 35335), (262, 35353), (267, 35374), (272, 35410), (276, 35428), (281, 35446), (286, 35470), (296, 35524),

Gene: ChickenDinner_41 Start: 31599, Stop: 32870, Start Num: 43
Candidate Starts for ChickenDinner_41:
(Start: 43 @31599 has 13 MA's), (54, 31662), (60, 31716), (62, 31725), (65, 31743), (79, 31812), (80, 31824), (103, 31962), (131, 32073), (143, 32136), (156, 32190), (173, 32283), (211, 32484), (225, 32526), (226, 32532), (230, 32544), (236, 32556), (240, 32565), (243, 32571), (247, 32589), (249, 32592), (258, 32652), (262, 32670), (267, 32691), (276, 32745), (281, 32763), (286, 32787), (294, 32832), (296, 32841), (303, 32862),

Gene: Chuckly_42 Start: 31981, Stop: 33282, Start Num: 42
Candidate Starts for Chuckly_42:
(Start: 42 @31981 has 163 MA's), (54, 32047), (60, 32101), (62, 32110), (65, 32128), (79, 32197), (80, 32209), (103, 32347), (125, 32419), (128, 32443), (131, 32458), (134, 32467), (135, 32470), (143, 32521), (152, 32554), (156, 32575), (175, 32686), (185, 32761), (211, 32872), (213, 32875), (225, 32914), (226, 32920), (227, 32923), (230, 32932), (232, 32938), (236, 32944), (247, 32977), (249, 32980), (255, 33028), (258, 33040), (262, 33058), (267, 33079), (272, 33115), (276, 33133), (281, 33151), (283, 33160), (286, 33175), (296, 33229),

Gene: ChutneyChips_37 Start: 30532, Stop: 31839, Start Num: 39
Candidate Starts for ChutneyChips_37:

(Start: 27 @30511 has 16 MA's), (Start: 39 @30532 has 77 MA's), (55, 30622), (83, 30790), (92, 30844), (103, 30907), (104, 30916), (124, 30997), (133, 31048), (135, 31054), (138, 31072), (140, 31090), (161, 31198), (173, 31267), (175, 31285), (177, 31294), (198, 31381), (224, 31468), (226, 31477), (229, 31486), (243, 31519), (249, 31549), (257, 31609), (259, 31615), (262, 31630), (269, 31657), (272, 31687), (283, 31732), (287, 31750), (292, 31780), (293, 31786),

Gene: CicholasNage_36 Start: 30275, Stop: 31582, Start Num: 39
Candidate Starts for CicholasNage_36:
(Start: 39 @30275 has 77 MA's), (55, 30365), (57, 30371), (71, 30464), (103, 30653), (104, 30662), (107, 30674), (125, 30749), (127, 30761), (128, 30773), (129, 30776), (132, 30791), (138, 30818), (161, 30944), (172, 31010), (175, 31031), (225, 31214), (226, 31220), (238, 31250), (249, 31292), (269, 31400), (272, 31430), (283, 31475), (287, 31493), (291, 31517), (293, 31529),

Gene: Claus_38 Start: 31724, Stop: 32959, Start Num: 53
Candidate Starts for Claus_38:
(Start: 19 @31607 has 1 MA's), (Start: 39 @31652 has 77 MA's), (Start: 53 @31724 has 2 MA's), (55, 31739), (63, 31802), (71, 31838), (72, 31841), (79, 31883), (103, 32027), (104, 32036), (131, 32162), (161, 32318), (166, 32351), (173, 32387), (175, 32405), (177, 32414), (226, 32597), (238, 32627), (247, 32666), (249, 32669), (257, 32729), (258, 32732), (259, 32735), (267, 32771), (268, 32774), (269, 32777), (274, 32813), (279, 32837), (283, 32852), (287, 32870), (292, 32900),

Gene: Clautastrophe_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for Clautastrophe_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: CocoCinnamon_34 Start: 25775, Stop: 24426, Start Num: 45
Candidate Starts for CocoCinnamon_34:
(Start: 26 @25811 has 1 MA's), (Start: 45 @25775 has 1 MA's), (80, 25547), (82, 25535), (94, 25445), (106, 25370), (126, 25301), (135, 25256), (241, 24803), (248, 24773), (262, 24692), (266, 24677), (275, 24635), (279, 24617), (280, 24614), (281, 24611), (282, 24605), (283, 24602), (288, 24581), (293, 24548), (310, 24467), (311, 24464), (312, 24458),

Gene: Crossroads_38 Start: 31657, Stop: 32964, Start Num: 39
Candidate Starts for Crossroads_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (55, 31744), (63, 31807), (71, 31843), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (173, 32392), (175, 32410), (177, 32419), (226, 32602), (238, 32632), (247, 32671), (249, 32674), (257, 32734), (259, 32740), (265, 32764), (268, 32779), (269, 32782), (279, 32842), (283, 32857), (287, 32875), (292, 32905), (293, 32911),

Gene: Crumble_38 Start: 29234, Stop: 30535, Start Num: 42
Candidate Starts for Crumble_38:
(Start: 42 @29234 has 163 MA's), (54, 29300), (60, 29354), (62, 29363), (65, 29381), (79, 29450), (80, 29462), (103, 29600), (125, 29672), (128, 29696), (131, 29711), (134, 29720), (143, 29774), (152, 29807), (156, 29828), (175, 29939), (185, 30014), (211, 30125), (213, 30128), (225, 30167), (226, 30173), (227, 30176), (230, 30185), (232, 30191), (236, 30197), (247, 30230), (249, 30233), (255, 30281), (258, 30293), (262, 30311), (267, 30332), (272, 30368), (276, 30386), (281, 30404), (283, 30413), (286, 30428), (296, 30482),

Gene: DHan_39 Start: 31593, Stop: 32900, Start Num: 39

Candidate Starts for DHan_39:
(Start: 19 @31548 has 1 MA's), (Start: 39 @31593 has 77 MA's), (Start: 53 @31665 has 2 MA's), (55, 31680), (63, 31743), (71, 31779), (72, 31782), (79, 31824), (103, 31968), (104, 31977), (131, 32103), (161, 32259), (166, 32292), (173, 32328), (175, 32346), (177, 32355), (226, 32538), (238, 32568), (247, 32607), (249, 32610), (257, 32670), (258, 32673), (259, 32676), (267, 32712), (268, 32715), (269, 32718), (274, 32754), (279, 32778), (283, 32793), (287, 32811), (292, 32841),

Gene: DS6A_56 Start: 38186, Stop: 39772, Start Num: 38
Candidate Starts for DS6A_56:
(21, 38144), (Start: 38 @38186 has 22 MA's), (58, 38282), (60, 38318), (62, 38327), (79, 38414), (85, 38450), (92, 38501), (104, 38573), (107, 38585), (115, 38612), (118, 38627), (127, 38654), (129, 38669), (131, 38681), (135, 38693), (138, 38711), (147, 38759), (150, 38771), (211, 39047), (213, 39050), (224, 39086), (225, 39089), (234, 39116), (249, 39170), (256, 39224), (270, 39296), (277, 39329), (278, 39335), (283, 39353), (289, 39386), (294, 39416), (295, 39422), (296, 39425), (298, 39431), (307, 39467), (308, 39482), (313, 39515), (316, 39533), (318, 39566), (319, 39587), (320, 39602), (321, 39614), (322, 39629), (323, 39641), (324, 39647), (325, 39674), (326, 39692), (327, 39704), (328, 39734), (329, 39743),

Gene: DaWorst_45 Start: 32810, Stop: 34111, Start Num: 42
Candidate Starts for DaWorst_45:
(Start: 42 @32810 has 163 MA's), (54, 32876), (60, 32930), (65, 32957), (79, 33026), (80, 33038), (103, 33176), (128, 33272), (131, 33287), (134, 33296), (143, 33350), (152, 33383), (156, 33404), (175, 33515), (185, 33590), (211, 33701), (213, 33704), (225, 33743), (226, 33749), (227, 33752), (230, 33761), (232, 33767), (236, 33773), (247, 33806), (249, 33809), (255, 33857), (258, 33869), (262, 33887), (267, 33908), (272, 33944), (276, 33962), (281, 33980), (286, 34004), (296, 34058),

Gene: DaddyRickover_42 Start: 32110, Stop: 33411, Start Num: 42
Candidate Starts for DaddyRickover_42:
(Start: 42 @32110 has 163 MA's), (54, 32176), (60, 32230), (62, 32239), (65, 32257), (79, 32326), (80, 32338), (103, 32476), (125, 32548), (128, 32572), (131, 32587), (134, 32596), (143, 32650), (152, 32683), (156, 32704), (175, 32815), (185, 32890), (211, 33001), (213, 33004), (225, 33043), (226, 33049), (227, 33052), (230, 33061), (232, 33067), (236, 33073), (247, 33106), (249, 33109), (255, 33157), (258, 33169), (262, 33187), (267, 33208), (272, 33244), (276, 33262), (281, 33280), (283, 33289), (286, 33304), (296, 33358),

Gene: Daenerys_40 Start: 31596, Stop: 32897, Start Num: 42
Candidate Starts for Daenerys_40:
(Start: 42 @31596 has 163 MA's), (54, 31662), (60, 31716), (62, 31725), (65, 31743), (79, 31812), (80, 31824), (103, 31962), (125, 32034), (128, 32058), (131, 32073), (134, 32082), (143, 32136), (152, 32169), (156, 32190), (175, 32301), (185, 32376), (211, 32487), (213, 32490), (225, 32529), (226, 32535), (227, 32538), (230, 32547), (232, 32553), (236, 32559), (247, 32592), (249, 32595), (255, 32643), (258, 32655), (262, 32673), (267, 32694), (272, 32730), (276, 32748), (281, 32766), (283, 32775), (286, 32790), (296, 32844),

Gene: DanBing_38 Start: 31557, Stop: 32792, Start Num: 53
Candidate Starts for DanBing_38:
(Start: 39 @31485 has 77 MA's), (Start: 53 @31557 has 2 MA's), (63, 31635), (76, 31707), (79, 31716), (103, 31860), (104, 31869), (131, 31995), (161, 32151), (166, 32184), (173, 32220), (175, 32238), (177, 32247), (226, 32430), (238, 32460), (247, 32499), (249, 32502), (257, 32562), (259, 32568), (267, 32604), (268, 32607), (269, 32610), (274, 32646), (279, 32670), (283, 32685), (287, 32703), (292, 32733),

Gene: DanSyl44_49 Start: 34572, Stop: 35837, Start Num: 27

Candidate Starts for DanSyl44_49:
(Start: 19 @34551 has 1 MA's), (Start: 27 @34572 has 16 MA's), (30, 34584), (Start: 42 @34602 has 163 MA's), (Start: 53 @34659 has 2 MA's), (Start: 59 @34713 has 2 MA's), (63, 34737), (77, 34806), (88, 34857), (103, 34956), (104, 34965), (107, 34977), (128, 35058), (135, 35085), (175, 35307), (177, 35316), (178, 35325), (192, 35376), (208, 35439), (230, 35511), (234, 35520), (249, 35568), (267, 35658), (279, 35724), (280, 35727), (286, 35754), (288, 35760), (291, 35781), (293, 35793),

Gene: Dante_42 Start: 31713, Stop: 33014, Start Num: 42
Candidate Starts for Dante_42:
(Start: 42 @31713 has 163 MA's), (54, 31779), (60, 31833), (65, 31860), (79, 31929), (80, 31941), (103, 32079), (128, 32175), (131, 32190), (134, 32199), (143, 32253), (152, 32286), (156, 32307), (175, 32418), (185, 32493), (211, 32604), (213, 32607), (226, 32652), (227, 32655), (232, 32670), (236, 32676), (247, 32709), (249, 32712), (255, 32760), (258, 32772), (262, 32790), (267, 32811), (272, 32847), (276, 32865), (281, 32883), (283, 32892), (286, 32907), (296, 32961),

Gene: DarthP_42 Start: 33018, Stop: 34286, Start Num: 42
Candidate Starts for DarthP_42:
(Start: 42 @33018 has 163 MA's), (Start: 43 @33021 has 13 MA's), (55, 33093), (57, 33099), (61, 33138), (67, 33171), (101, 33357), (103, 33375), (104, 33384), (107, 33396), (118, 33438), (134, 33501), (135, 33504), (139, 33537), (155, 33618), (164, 33669), (175, 33732), (177, 33741), (207, 33858), (222, 33906), (225, 33915), (226, 33921), (243, 33966), (262, 34071), (267, 34104), (287, 34203), (303, 34275),

Gene: DatBoi_63 Start: 47209, Stop: 48582, Start Num: 33
Candidate Starts for DatBoi_63:
(2, 46984), (3, 46990), (12, 47152), (Start: 33 @47209 has 1 MA's), (Start: 53 @47296 has 2 MA's), (80, 47461), (82, 47473), (99, 47566), (103, 47596), (104, 47605), (121, 47704), (122, 47707), (123, 47710), (127, 47734), (135, 47779), (158, 47893), (160, 47899), (164, 47926), (176, 47995), (177, 47998), (189, 48055), (196, 48091), (197, 48094), (214, 48145), (219, 48163), (220, 48166), (226, 48187), (249, 48262), (262, 48343), (273, 48391), (275, 48400), (279, 48418), (281, 48424), (299, 48511),

Gene: Deb65_41 Start: 31565, Stop: 32866, Start Num: 42
Candidate Starts for Deb65_41:
(Start: 42 @31565 has 163 MA's), (54, 31631), (60, 31685), (62, 31694), (65, 31712), (79, 31781), (80, 31793), (103, 31931), (125, 32003), (128, 32027), (131, 32042), (134, 32051), (143, 32105), (152, 32138), (156, 32159), (175, 32270), (185, 32345), (211, 32456), (213, 32459), (225, 32498), (226, 32504), (227, 32507), (230, 32516), (232, 32522), (236, 32528), (247, 32561), (249, 32564), (255, 32612), (258, 32624), (262, 32642), (267, 32663), (272, 32699), (276, 32717), (281, 32735), (283, 32744), (286, 32759), (296, 32813),

Gene: Demsculpinboyz_50 Start: 32530, Stop: 31235, Start Num: 36
Candidate Starts for Demsculpinboyz_50:
(Start: 36 @32530 has 4 MA's), (Start: 53 @32449 has 2 MA's), (74, 32314), (79, 32296), (82, 32272), (92, 32212), (94, 32200), (96, 32194), (103, 32152), (104, 32143), (117, 32095), (125, 32077), (129, 32050), (135, 32026), (137, 32011), (142, 31981), (154, 31930), (157, 31912), (198, 31720), (204, 31705), (209, 31684), (210, 31681), (211, 31672), (236, 31600), (249, 31552), (251, 31525), (267, 31450), (272, 31414), (281, 31378), (296, 31300), (301, 31285), (302, 31282), (306, 31261),

Gene: DillTech15_43 Start: 32397, Stop: 33698, Start Num: 42
Candidate Starts for DillTech15_43:
(Start: 42 @32397 has 163 MA's), (54, 32463), (60, 32517), (65, 32544), (79, 32613), (80, 32625), (103, 32763), (128, 32859), (131, 32874), (134, 32883), (143, 32937), (152, 32970), (156, 32991),

(175, 33102), (185, 33177), (211, 33288), (213, 33291), (225, 33330), (226, 33336), (227, 33339), (230, 33348), (232, 33354), (236, 33360), (247, 33393), (249, 33396), (255, 33444), (258, 33456), (262, 33474), (267, 33495), (272, 33531), (276, 33549), (281, 33567), (286, 33591), (296, 33645),

Gene: DirkDirk_35 Start: 30286, Stop: 31593, Start Num: 39
Candidate Starts for DirkDirk_35:
(Start: 39 @30286 has 77 MA's), (55, 30376), (57, 30382), (71, 30475), (103, 30664), (104, 30673), (107, 30685), (125, 30760), (127, 30772), (128, 30784), (129, 30787), (132, 30802), (138, 30829), (161, 30955), (172, 31021), (175, 31042), (225, 31225), (226, 31231), (238, 31261), (249, 31303), (269, 31411), (272, 31441), (283, 31486), (287, 31504), (291, 31528), (293, 31540),

Gene: DirtMcgirt_41 Start: 31265, Stop: 32554, Start Num: 42
Candidate Starts for DirtMcgirt_41:
(Start: 42 @31265 has 163 MA's), (54, 31331), (60, 31385), (62, 31394), (65, 31412), (79, 31481), (80, 31493), (103, 31631), (125, 31703), (128, 31727), (131, 31742), (134, 31751), (143, 31805), (152, 31838), (156, 31859), (161, 31880), (175, 31970), (185, 32045), (211, 32156), (213, 32159), (225, 32198), (226, 32204), (227, 32207), (230, 32216), (232, 32222), (236, 32228), (247, 32261), (249, 32264), (255, 32312), (258, 32324), (262, 32342), (267, 32363), (272, 32399), (276, 32417), (281, 32435), (283, 32444), (286, 32459), (296, 32513),

Gene: DocMcStuffins_41 Start: 31599, Stop: 32870, Start Num: 43
Candidate Starts for DocMcStuffins_41:
(Start: 43 @31599 has 13 MA's), (54, 31662), (60, 31716), (62, 31725), (65, 31743), (79, 31812), (80, 31824), (103, 31962), (131, 32073), (143, 32136), (156, 32190), (173, 32283), (211, 32484), (225, 32526), (226, 32532), (230, 32544), (236, 32556), (240, 32565), (243, 32571), (247, 32589), (249, 32592), (258, 32652), (262, 32670), (267, 32691), (276, 32745), (281, 32763), (286, 32787), (294, 32832), (296, 32841), (303, 32862),

Gene: Doomphist_43 Start: 32942, Stop: 34243, Start Num: 42
Candidate Starts for Doomphist_43:
(Start: 42 @32942 has 163 MA's), (54, 33008), (60, 33062), (62, 33071), (65, 33089), (79, 33158), (80, 33170), (103, 33308), (125, 33380), (128, 33404), (131, 33419), (134, 33428), (143, 33482), (152, 33515), (156, 33536), (175, 33647), (185, 33722), (211, 33833), (213, 33836), (225, 33875), (226, 33881), (227, 33884), (230, 33893), (232, 33899), (236, 33905), (247, 33938), (249, 33941), (255, 33989), (258, 34001), (262, 34019), (267, 34040), (272, 34076), (276, 34094), (281, 34112), (283, 34121), (286, 34136), (296, 34190),

Gene: Dorothy_40 Start: 31738, Stop: 33039, Start Num: 42
Candidate Starts for Dorothy_40:
(Start: 42 @31738 has 163 MA's), (54, 31804), (60, 31858), (65, 31885), (79, 31954), (80, 31966), (103, 32104), (125, 32176), (128, 32200), (131, 32215), (134, 32224), (143, 32278), (152, 32311), (156, 32332), (175, 32443), (185, 32518), (211, 32629), (213, 32632), (225, 32671), (226, 32677), (227, 32680), (230, 32689), (232, 32695), (236, 32701), (247, 32734), (249, 32737), (255, 32785), (258, 32797), (262, 32815), (267, 32836), (272, 32872), (276, 32890), (281, 32908), (283, 32917), (286, 32932), (296, 32986),

Gene: DotProduct_40 Start: 31396, Stop: 32685, Start Num: 42
Candidate Starts for DotProduct_40:
(Start: 42 @31396 has 163 MA's), (54, 31462), (60, 31516), (65, 31543), (79, 31612), (80, 31624), (81, 31627), (103, 31762), (125, 31834), (128, 31858), (131, 31873), (134, 31882), (143, 31936), (152, 31969), (156, 31990), (175, 32101), (185, 32176), (211, 32287), (213, 32290), (225, 32329), (226, 32335), (227, 32338), (230, 32347), (232, 32353), (247, 32392), (249, 32395), (255, 32443), (258, 32455), (262, 32473), (267, 32494), (272, 32530), (276, 32548), (281, 32566), (283, 32575), (286,

32590), (296, 32644),

Gene: Doucette_31 Start: 22357, Stop: 23664, Start Num: 46
Candidate Starts for Doucette_31:
(30, 22324), (37, 22336), (Start: 46 @22357 has 1 MA's), (55, 22426), (71, 22528), (79, 22573), (103, 22717), (130, 22831), (134, 22849), (136, 22858), (142, 22897), (145, 22909), (150, 22930), (151, 22933), (163, 22987), (171, 23044), (186, 23146), (205, 23227), (206, 23230), (224, 23287), (225, 23290), (227, 23299), (230, 23308), (231, 23311), (249, 23365), (251, 23392), (261, 23440), (268, 23473), (271, 23500), (276, 23524), (279, 23536), (280, 23539), (292, 23599),

Gene: Doug_43 Start: 32286, Stop: 33575, Start Num: 42
Candidate Starts for Doug_43:
(Start: 42 @32286 has 163 MA's), (54, 32352), (60, 32406), (62, 32415), (65, 32433), (79, 32502), (80, 32514), (103, 32652), (128, 32748), (131, 32763), (134, 32772), (143, 32826), (152, 32859), (156, 32880), (175, 32991), (185, 33066), (211, 33177), (213, 33180), (225, 33219), (226, 33225), (227, 33228), (230, 33237), (232, 33243), (247, 33282), (249, 33285), (255, 33333), (258, 33345), (262, 33363), (267, 33384), (272, 33420), (276, 33438), (281, 33456), (283, 33465), (286, 33480), (296, 33534),

Gene: Douge_35 Start: 30290, Stop: 31597, Start Num: 39
Candidate Starts for Douge_35:
(Start: 27 @30269 has 16 MA's), (Start: 39 @30290 has 77 MA's), (55, 30380), (63, 30443), (66, 30452), (83, 30548), (92, 30602), (103, 30665), (104, 30674), (124, 30755), (133, 30806), (135, 30812), (140, 30848), (161, 30956), (173, 31025), (175, 31043), (177, 31052), (184, 31094), (198, 31139), (224, 31226), (226, 31235), (243, 31277), (249, 31307), (257, 31367), (259, 31373), (262, 31388), (272, 31445), (283, 31490), (287, 31508), (292, 31538),

Gene: Douzhi_35 Start: 30396, Stop: 31703, Start Num: 39
Candidate Starts for Douzhi_35:
(Start: 27 @30375 has 16 MA's), (Start: 39 @30396 has 77 MA's), (Start: 53 @30471 has 2 MA's), (55, 30486), (63, 30549), (66, 30558), (83, 30654), (92, 30708), (103, 30771), (104, 30780), (124, 30861), (133, 30912), (135, 30918), (140, 30954), (161, 31062), (173, 31131), (175, 31149), (177, 31158), (184, 31200), (198, 31245), (224, 31332), (226, 31341), (243, 31383), (249, 31413), (257, 31473), (259, 31479), (262, 31494), (272, 31551), (283, 31596), (287, 31614), (292, 31644),

Gene: DrSeegs_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for DrSeegs_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: Drago_42 Start: 31258, Stop: 32559, Start Num: 42
Candidate Starts for Drago_42:
(Start: 42 @31258 has 163 MA's), (54, 31324), (60, 31378), (62, 31387), (65, 31405), (79, 31474), (80, 31486), (103, 31624), (125, 31696), (128, 31720), (131, 31735), (134, 31744), (143, 31798), (152, 31831), (156, 31852), (175, 31963), (185, 32038), (211, 32149), (213, 32152), (225, 32191), (226, 32197), (227, 32200), (230, 32209), (232, 32215), (236, 32221), (247, 32254), (249, 32257), (255, 32305), (258, 32317), (262, 32335), (267, 32356), (272, 32392), (276, 32410), (281, 32428), (286, 32452), (296, 32506),

Gene: DuncansLeg_36 Start: 31897, Stop: 33201, Start Num: 39

Candidate Starts for DuncansLeg_36:
(Start: 39 @31897 has 77 MA's), (55, 31984), (57, 31990), (80, 32140), (103, 32272), (104, 32281), (127, 32380), (136, 32425), (157, 32551), (161, 32563), (173, 32632), (193, 32722), (226, 32839), (243, 32881), (249, 32911), (257, 32971), (259, 32977), (268, 33016), (269, 33019), (272, 33049), (283, 33094), (287, 33112), (291, 33136), (293, 33148),

Gene: DyoEdafos_37 Start: 30624, Stop: 31931, Start Num: 39
Candidate Starts for DyoEdafos_37:
(Start: 27 @30603 has 16 MA's), (Start: 39 @30624 has 77 MA's), (63, 30777), (77, 30849), (83, 30882), (100, 30975), (102, 30984), (103, 30999), (104, 31008), (124, 31089), (135, 31146), (140, 31182), (157, 31278), (161, 31290), (166, 31323), (173, 31359), (175, 31377), (192, 31446), (193, 31452), (224, 31560), (226, 31569), (243, 31611), (249, 31641), (257, 31701), (259, 31707), (269, 31749), (272, 31779), (283, 31824), (287, 31842), (291, 31866), (292, 31872),

Gene: E1_28 Start: 21218, Stop: 22537, Start Num: 44
Candidate Starts for E1_28:
(6, 21068), (7, 21077), (10, 21116), (15, 21146), (22, 21167), (29, 21185), (Start: 36 @21197 has 4 MA's), (Start: 44 @21218 has 6 MA's), (49, 21227), (60, 21341), (74, 21419), (75, 21425), (91, 21521), (92, 21524), (133, 21716), (168, 21905), (171, 21914), (180, 21968), (215, 22130), (230, 22181), (249, 22238), (271, 22373), (279, 22409), (297, 22496), (299, 22502),

Gene: E6_28 Start: 20940, Stop: 22259, Start Num: 44
Candidate Starts for E6_28:
(6, 20790), (7, 20799), (10, 20838), (15, 20868), (22, 20889), (29, 20907), (Start: 36 @20919 has 4 MA's), (Start: 44 @20940 has 6 MA's), (49, 20949), (60, 21063), (74, 21141), (75, 21147), (91, 21243), (111, 21345), (133, 21438), (134, 21441), (168, 21627), (180, 21690), (215, 21852), (230, 21903), (249, 21960), (271, 22095), (279, 22131), (297, 22218), (299, 22224),

Gene: Eish_43 Start: 32301, Stop: 33611, Start Num: 42
Candidate Starts for Eish_43:
(Start: 42 @32301 has 163 MA's), (54, 32367), (60, 32421), (65, 32448), (79, 32517), (80, 32529), (103, 32667), (128, 32763), (131, 32778), (134, 32787), (143, 32841), (152, 32874), (156, 32895), (175, 33006), (185, 33081), (211, 33192), (213, 33195), (225, 33234), (226, 33240), (227, 33243), (230, 33252), (232, 33258), (236, 33264), (247, 33297), (249, 33300), (255, 33348), (258, 33360), (262, 33378), (267, 33399), (272, 33435), (276, 33453), (281, 33471), (286, 33495), (296, 33549),

Gene: Ekdilam_39 Start: 32465, Stop: 33844, Start Num: 35
Candidate Starts for Ekdilam_39:
(Start: 35 @32465 has 3 MA's), (Start: 53 @32546 has 2 MA's), (55, 32561), (60, 32603), (77, 32696), (84, 32735), (88, 32750), (103, 32849), (104, 32858), (127, 32939), (174, 33194), (175, 33206), (177, 33215), (192, 33290), (207, 33350), (214, 33371), (222, 33398), (224, 33404), (226, 33413), (249, 33488), (259, 33554), (262, 33569), (279, 33659), (315, 33815),

Gene: Ellie_39 Start: 32504, Stop: 33880, Start Num: 38
Candidate Starts for Ellie_39:
(Start: 38 @32504 has 22 MA's), (Start: 53 @32579 has 2 MA's), (77, 32729), (84, 32768), (88, 32783), (103, 32882), (104, 32891), (127, 32972), (174, 33227), (175, 33239), (177, 33248), (192, 33323), (207, 33383), (214, 33404), (222, 33431), (224, 33437), (226, 33446), (249, 33521), (262, 33602), (316, 33857),

Gene: Ellson_36 Start: 31873, Stop: 33177, Start Num: 39
Candidate Starts for Ellson_36:

(Start: 39 @31873 has 77 MA's), (55, 31960), (57, 31966), (80, 32116), (103, 32248), (104, 32257), (127, 32356), (136, 32401), (157, 32527), (161, 32539), (173, 32608), (193, 32698), (226, 32815), (243, 32857), (249, 32887), (257, 32947), (259, 32953), (268, 32992), (269, 32995), (272, 33025), (283, 33070), (287, 33088), (291, 33112), (293, 33124),

Gene: EmiMonkey_40 Start: 33053, Stop: 34342, Start Num: 42
Candidate Starts for EmiMonkey_40:
(Start: 42 @33053 has 163 MA's), (54, 33119), (60, 33173), (65, 33200), (79, 33269), (80, 33281), (103, 33419), (125, 33491), (128, 33515), (131, 33530), (134, 33539), (143, 33593), (152, 33626), (156, 33647), (175, 33758), (185, 33833), (211, 33944), (213, 33947), (225, 33986), (226, 33992), (227, 33995), (230, 34004), (232, 34010), (236, 34016), (247, 34049), (249, 34052), (255, 34100), (258, 34112), (262, 34130), (267, 34151), (272, 34187), (276, 34205), (281, 34223), (283, 34232), (286, 34247), (296, 34301),

Gene: Emmaloid_44 Start: 33131, Stop: 34420, Start Num: 42
Candidate Starts for Emmaloid_44:
(Start: 42 @33131 has 163 MA's), (54, 33197), (60, 33251), (62, 33260), (65, 33278), (79, 33347), (80, 33359), (103, 33497), (125, 33569), (128, 33593), (131, 33608), (134, 33617), (143, 33671), (152, 33704), (156, 33725), (175, 33836), (185, 33911), (211, 34022), (213, 34025), (225, 34064), (226, 34070), (227, 34073), (230, 34082), (232, 34088), (236, 34094), (247, 34127), (249, 34130), (255, 34178), (258, 34190), (262, 34208), (267, 34229), (272, 34265), (276, 34283), (281, 34301), (283, 34310), (286, 34325), (296, 34379),

Gene: Empress_43 Start: 33009, Stop: 34310, Start Num: 42
Candidate Starts for Empress_43:
(Start: 42 @33009 has 163 MA's), (54, 33075), (60, 33129), (62, 33138), (65, 33156), (79, 33225), (80, 33237), (103, 33375), (125, 33447), (128, 33471), (131, 33486), (134, 33495), (143, 33549), (152, 33582), (156, 33603), (175, 33714), (185, 33789), (211, 33900), (213, 33903), (225, 33942), (226, 33948), (227, 33951), (230, 33960), (232, 33966), (236, 33972), (247, 34005), (249, 34008), (255, 34056), (258, 34068), (262, 34086), (267, 34107), (272, 34143), (276, 34161), (281, 34179), (283, 34188), (286, 34203), (296, 34257),

Gene: Enceladus_35 Start: 30269, Stop: 31576, Start Num: 39
Candidate Starts for Enceladus_35:
(Start: 39 @30269 has 77 MA's), (55, 30359), (57, 30365), (71, 30458), (103, 30647), (104, 30656), (107, 30668), (125, 30743), (127, 30755), (128, 30767), (129, 30770), (132, 30785), (138, 30812), (161, 30938), (172, 31004), (175, 31025), (225, 31208), (226, 31214), (238, 31244), (249, 31286), (269, 31394), (272, 31424), (274, 31430), (283, 31469), (287, 31487), (291, 31511), (293, 31523),

Gene: Eponine_47 Start: 34284, Stop: 35549, Start Num: 27
Candidate Starts for Eponine_47:
(Start: 19 @34263 has 1 MA's), (Start: 27 @34284 has 16 MA's), (30, 34296), (Start: 42 @34314 has 163 MA's), (Start: 53 @34371 has 2 MA's), (Start: 59 @34425 has 2 MA's), (63, 34449), (77, 34518), (88, 34569), (103, 34668), (104, 34677), (107, 34689), (128, 34770), (135, 34797), (175, 35019), (177, 35028), (178, 35037), (192, 35088), (208, 35151), (230, 35223), (234, 35232), (249, 35280), (267, 35370), (279, 35436), (280, 35439), (286, 35466), (288, 35472), (291, 35493), (293, 35505),

Gene: Faith1_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Faith1_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856),

(287, 32874), (292, 32904),

Gene: Fancypants_43 Start: 32701, Stop: 33990, Start Num: 42
Candidate Starts for Fancypants_43:
(Start: 42 @32701 has 163 MA's), (54, 32767), (60, 32821), (65, 32848), (79, 32917), (80, 32929), (103, 33067), (128, 33163), (131, 33178), (134, 33187), (143, 33241), (152, 33274), (156, 33295), (175, 33406), (185, 33481), (211, 33592), (213, 33595), (225, 33634), (226, 33640), (227, 33643), (230, 33652), (232, 33658), (236, 33664), (247, 33697), (249, 33700), (255, 33748), (258, 33760), (262, 33778), (267, 33799), (272, 33835), (276, 33853), (281, 33871), (283, 33880), (286, 33895), (296, 33949),

Gene: FarmResident_35 Start: 30334, Stop: 31641, Start Num: 39
Candidate Starts for FarmResident_35:
(Start: 27 @30313 has 16 MA's), (Start: 39 @30334 has 77 MA's), (55, 30424), (63, 30487), (66, 30496), (83, 30592), (92, 30646), (103, 30709), (104, 30718), (124, 30799), (133, 30850), (135, 30856), (140, 30892), (161, 31000), (173, 31069), (175, 31087), (177, 31096), (184, 31138), (198, 31183), (224, 31270), (226, 31279), (243, 31321), (249, 31351), (257, 31411), (259, 31417), (262, 31432), (272, 31489), (283, 31534), (287, 31552), (292, 31582),

Gene: Fastidio_46 Start: 32627, Stop: 33919, Start Num: 42
Candidate Starts for Fastidio_46:
(Start: 42 @32627 has 163 MA's), (54, 32693), (60, 32747), (62, 32756), (65, 32774), (79, 32843), (80, 32855), (103, 32993), (125, 33065), (128, 33089), (131, 33104), (134, 33113), (143, 33167), (152, 33200), (156, 33221), (175, 33332), (185, 33407), (211, 33518), (213, 33521), (225, 33560), (226, 33566), (227, 33569), (230, 33578), (232, 33584), (247, 33623), (249, 33626), (255, 33674), (258, 33686), (262, 33704), (267, 33725), (272, 33761), (276, 33779), (281, 33797), (283, 33806), (286, 33821), (296, 33875),

Gene: Fefferhead_40 Start: 32458, Stop: 33831, Start Num: 38
Candidate Starts for Fefferhead_40:
(Start: 38 @32458 has 22 MA's), (Start: 53 @32533 has 2 MA's), (77, 32683), (84, 32722), (88, 32737), (103, 32836), (104, 32845), (127, 32926), (174, 33181), (175, 33193), (177, 33202), (192, 33277), (207, 33337), (214, 33358), (224, 33391), (226, 33400), (262, 33556), (316, 33808),

Gene: Finemlucis_38 Start: 31932, Stop: 33239, Start Num: 39
Candidate Starts for Finemlucis_38:
(Start: 19 @31887 has 1 MA's), (Start: 39 @31932 has 77 MA's), (Start: 53 @32004 has 2 MA's), (55, 32019), (63, 32082), (71, 32118), (104, 32316), (131, 32442), (161, 32598), (166, 32631), (173, 32667), (175, 32685), (177, 32694), (226, 32877), (238, 32907), (247, 32946), (249, 32949), (257, 33009), (259, 33015), (265, 33039), (268, 33054), (269, 33057), (279, 33117), (283, 33132), (287, 33150), (292, 33180), (293, 33186),

Gene: Finnry_36 Start: 31901, Stop: 33193, Start Num: 39
Candidate Starts for Finnry_36:
(11, 31817), (18, 31850), (Start: 39 @31901 has 77 MA's), (Start: 53 @31976 has 2 MA's), (55, 31991), (104, 32288), (128, 32384), (136, 32417), (157, 32543), (161, 32555), (173, 32624), (226, 32831), (243, 32873), (249, 32903), (257, 32963), (268, 33008), (269, 33011), (272, 33041), (283, 33086), (287, 33104), (291, 33128), (293, 33140),

Gene: Fionnbharth_45 Start: 33681, Stop: 34946, Start Num: 27
Candidate Starts for Fionnbharth_45:
(Start: 19 @33660 has 1 MA's), (Start: 27 @33681 has 16 MA's), (30, 33693), (Start: 42 @33711 has 163 MA's), (Start: 53 @33768 has 2 MA's), (Start: 59 @33822 has 2 MA's), (63, 33846), (77, 33915),

(88, 33966), (103, 34065), (104, 34074), (107, 34086), (128, 34167), (135, 34194), (175, 34416), (177, 34425), (178, 34434), (192, 34485), (208, 34548), (230, 34620), (234, 34629), (249, 34677), (267, 34767), (279, 34833), (280, 34836), (283, 34848), (286, 34863), (288, 34869), (291, 34890), (293, 34902),

Gene: Firehouse51_42 Start: 33340, Stop: 34641, Start Num: 42
Candidate Starts for Firehouse51_42:
(Start: 42 @33340 has 163 MA's), (54, 33406), (60, 33460), (62, 33469), (65, 33487), (79, 33556), (80, 33568), (103, 33706), (128, 33802), (131, 33817), (134, 33826), (143, 33880), (152, 33913), (156, 33934), (175, 34045), (185, 34120), (211, 34231), (213, 34234), (226, 34279), (227, 34282), (230, 34291), (232, 34297), (236, 34303), (247, 34336), (249, 34339), (255, 34387), (258, 34399), (262, 34417), (267, 34438), (272, 34474), (276, 34492), (281, 34510), (283, 34519), (286, 34534), (296, 34588),

Gene: Florinda_51 Start: 33021, Stop: 34310, Start Num: 42
Candidate Starts for Florinda_51:
(Start: 42 @33021 has 163 MA's), (54, 33087), (60, 33141), (62, 33150), (65, 33168), (79, 33237), (80, 33249), (103, 33387), (128, 33483), (131, 33498), (134, 33507), (143, 33561), (152, 33594), (156, 33615), (175, 33726), (185, 33801), (211, 33912), (213, 33915), (225, 33954), (226, 33960), (227, 33963), (230, 33972), (232, 33978), (236, 33984), (247, 34017), (249, 34020), (255, 34068), (258, 34080), (262, 34098), (267, 34119), (272, 34155), (276, 34173), (281, 34191), (283, 34200), (286, 34215), (296, 34269),

Gene: Frankie_47 Start: 33449, Stop: 34720, Start Num: 43
Candidate Starts for Frankie_47:
(Start: 43 @33449 has 13 MA's), (54, 33512), (60, 33566), (62, 33575), (65, 33593), (79, 33662), (80, 33674), (103, 33812), (131, 33923), (143, 33986), (156, 34040), (173, 34133), (211, 34334), (225, 34376), (226, 34382), (236, 34406), (240, 34415), (243, 34421), (247, 34439), (249, 34442), (258, 34502), (262, 34520), (267, 34541), (276, 34595), (281, 34613), (286, 34637), (296, 34691), (303, 34712),

Gene: FreddyB_43 Start: 32145, Stop: 33446, Start Num: 42
Candidate Starts for FreddyB_43:
(Start: 42 @32145 has 163 MA's), (54, 32211), (60, 32265), (62, 32274), (65, 32292), (79, 32361), (80, 32373), (103, 32511), (125, 32583), (128, 32607), (131, 32622), (134, 32631), (143, 32685), (152, 32718), (156, 32739), (175, 32850), (185, 32925), (211, 33036), (213, 33039), (225, 33078), (226, 33084), (227, 33087), (230, 33096), (232, 33102), (236, 33108), (247, 33141), (249, 33144), (255, 33192), (258, 33204), (262, 33222), (267, 33243), (272, 33279), (276, 33297), (281, 33315), (283, 33324), (286, 33339), (296, 33393),

Gene: G4_29 Start: 21966, Stop: 23285, Start Num: 44
Candidate Starts for G4_29:
(6, 21816), (7, 21825), (10, 21864), (15, 21894), (22, 21915), (29, 21933), (Start: 36 @21945 has 4 MA's), (Start: 44 @21966 has 6 MA's), (49, 21975), (60, 22089), (74, 22167), (75, 22173), (91, 22269), (92, 22272), (133, 22464), (134, 22467), (168, 22653), (180, 22716), (215, 22878), (222, 22902), (230, 22929), (249, 22986), (271, 23121), (279, 23157), (297, 23244), (299, 23250),

Gene: GAL1_31 Start: 28103, Stop: 29317, Start Num: 42
Candidate Starts for GAL1_31:
(Start: 42 @28103 has 163 MA's), (Start: 53 @28169 has 2 MA's), (54, 28175), (68, 28259), (104, 28466), (108, 28478), (118, 28523), (125, 28538), (127, 28550), (135, 28589), (165, 28739), (183, 28844), (194, 28895), (200, 28916), (217, 28955), (218, 28958), (221, 28967), (249, 29024), (258, 29087), (263, 29108), (273, 29168), (281, 29201), (288, 29231),

Gene: GUmbie_41 Start: 31614, Stop: 32912, Start Num: 42
Candidate Starts for GUmbie_41:
(Start: 42 @31614 has 163 MA's), (54, 31680), (60, 31734), (65, 31761), (79, 31830), (80, 31842), (81, 31845), (103, 31980), (128, 32076), (131, 32091), (134, 32100), (143, 32154), (152, 32187), (156, 32208), (175, 32319), (185, 32394), (211, 32505), (213, 32508), (226, 32553), (227, 32556), (230, 32565), (232, 32571), (236, 32577), (247, 32610), (249, 32613), (255, 32661), (258, 32673), (262, 32691), (267, 32712), (272, 32748), (276, 32766), (281, 32784), (283, 32793), (286, 32808), (296, 32862),

Gene: Gabriela_38 Start: 31918, Stop: 33225, Start Num: 39
Candidate Starts for Gabriela_38:
(Start: 19 @31873 has 1 MA's), (Start: 39 @31918 has 77 MA's), (Start: 53 @31990 has 2 MA's), (55, 32005), (63, 32068), (71, 32104), (104, 32302), (131, 32428), (161, 32584), (166, 32617), (173, 32653), (175, 32671), (177, 32680), (226, 32863), (238, 32893), (247, 32932), (257, 32995), (259, 33001), (265, 33025), (268, 33040), (269, 33043), (279, 33103), (283, 33118), (287, 33136), (292, 33166), (293, 33172),

Gene: Gandalph_42 Start: 31699, Stop: 32988, Start Num: 42
Candidate Starts for Gandalph_42:
(Start: 42 @31699 has 163 MA's), (54, 31765), (60, 31819), (62, 31828), (65, 31846), (79, 31915), (80, 31927), (103, 32065), (128, 32161), (131, 32176), (134, 32185), (143, 32239), (152, 32272), (156, 32293), (175, 32404), (185, 32479), (211, 32590), (213, 32593), (226, 32638), (227, 32641), (230, 32650), (232, 32656), (236, 32662), (247, 32695), (249, 32698), (255, 32746), (258, 32758), (262, 32776), (267, 32797), (272, 32833), (276, 32851), (281, 32869), (283, 32878), (286, 32893), (296, 32947),

Gene: Gardann_38 Start: 31657, Stop: 32964, Start Num: 39
Candidate Starts for Gardann_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (55, 31744), (63, 31807), (71, 31843), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (173, 32392), (175, 32410), (177, 32419), (226, 32602), (238, 32632), (247, 32671), (249, 32674), (257, 32734), (259, 32740), (265, 32764), (268, 32779), (269, 32782), (279, 32842), (283, 32857), (287, 32875), (292, 32905), (293, 32911),

Gene: Geralt_41 Start: 31564, Stop: 32865, Start Num: 42
Candidate Starts for Geralt_41:
(Start: 42 @31564 has 163 MA's), (54, 31630), (60, 31684), (62, 31693), (65, 31711), (79, 31780), (80, 31792), (103, 31930), (125, 32002), (128, 32026), (131, 32041), (134, 32050), (143, 32104), (152, 32137), (156, 32158), (175, 32269), (185, 32344), (211, 32455), (213, 32458), (225, 32497), (226, 32503), (227, 32506), (230, 32515), (232, 32521), (236, 32527), (247, 32560), (249, 32563), (255, 32611), (258, 32623), (262, 32641), (267, 32662), (272, 32698), (276, 32716), (281, 32734), (283, 32743), (286, 32758), (296, 32812),

Gene: GigiOuiOui_40 Start: 31539, Stop: 32828, Start Num: 42
Candidate Starts for GigiOuiOui_40:
(Start: 42 @31539 has 163 MA's), (54, 31605), (60, 31659), (65, 31686), (79, 31755), (80, 31767), (81, 31770), (103, 31905), (125, 31977), (128, 32001), (131, 32016), (134, 32025), (143, 32079), (152, 32112), (156, 32133), (175, 32244), (185, 32319), (211, 32430), (213, 32433), (225, 32472), (226, 32478), (227, 32481), (230, 32490), (232, 32496), (236, 32502), (247, 32535), (249, 32538), (255, 32586), (258, 32598), (262, 32616), (267, 32637), (272, 32673), (276, 32691), (281, 32709), (283, 32718), (286, 32733), (296, 32787),

Gene: Girafales_51 Start: 32828, Stop: 34117, Start Num: 42
Candidate Starts for Girafales_51:
(Start: 42 @32828 has 163 MA's), (54, 32894), (60, 32948), (62, 32957), (65, 32975), (80, 33056), (103, 33194), (128, 33290), (131, 33305), (134, 33314), (143, 33368), (152, 33401), (156, 33422), (175, 33533), (185, 33608), (211, 33719), (213, 33722), (225, 33761), (226, 33767), (227, 33770), (230, 33779), (232, 33785), (236, 33791), (247, 33824), (249, 33827), (255, 33875), (258, 33887), (262, 33905), (267, 33926), (272, 33962), (276, 33980), (281, 33998), (283, 34007), (286, 34022), (296, 34076),

Gene: Girr_44 Start: 32606, Stop: 33907, Start Num: 42
Candidate Starts for Girr_44:
(Start: 42 @32606 has 163 MA's), (54, 32672), (60, 32726), (62, 32735), (65, 32753), (79, 32822), (80, 32834), (103, 32972), (125, 33044), (128, 33068), (131, 33083), (134, 33092), (143, 33146), (152, 33179), (156, 33200), (175, 33311), (185, 33386), (211, 33497), (213, 33500), (225, 33539), (226, 33545), (227, 33548), (230, 33557), (232, 33563), (236, 33569), (247, 33602), (249, 33605), (255, 33653), (258, 33665), (262, 33683), (267, 33704), (272, 33740), (276, 33758), (281, 33776), (283, 33785), (286, 33800), (296, 33854),

Gene: Grimmer_50 Start: 34133, Stop: 35443, Start Num: 42
Candidate Starts for Grimmer_50:
(Start: 42 @34133 has 163 MA's), (54, 34199), (60, 34253), (65, 34280), (79, 34349), (80, 34361), (103, 34499), (128, 34595), (131, 34610), (134, 34619), (143, 34673), (152, 34706), (156, 34727), (175, 34838), (185, 34913), (211, 35024), (213, 35027), (225, 35066), (226, 35072), (227, 35075), (230, 35084), (232, 35090), (236, 35096), (247, 35129), (249, 35132), (255, 35180), (258, 35192), (262, 35210), (267, 35231), (272, 35267), (276, 35285), (281, 35303), (286, 35327), (296, 35381),

Gene: GuuelaD_38 Start: 31694, Stop: 33001, Start Num: 39
Candidate Starts for GuuelaD_38:
(Start: 19 @31649 has 1 MA's), (Start: 39 @31694 has 77 MA's), (Start: 53 @31766 has 2 MA's), (55, 31781), (63, 31844), (71, 31880), (104, 32078), (131, 32204), (161, 32360), (166, 32393), (173, 32429), (175, 32447), (177, 32456), (226, 32639), (238, 32669), (247, 32708), (249, 32711), (257, 32771), (259, 32777), (265, 32801), (268, 32816), (269, 32819), (279, 32879), (283, 32894), (287, 32912), (292, 32942), (293, 32948),

Gene: Hafay_38 Start: 31689, Stop: 32996, Start Num: 39
Candidate Starts for Hafay_38:
(Start: 19 @31644 has 1 MA's), (Start: 39 @31689 has 77 MA's), (Start: 53 @31761 has 2 MA's), (55, 31776), (63, 31839), (71, 31875), (104, 32073), (131, 32199), (161, 32355), (166, 32388), (173, 32424), (175, 32442), (177, 32451), (226, 32634), (238, 32664), (247, 32703), (249, 32706), (257, 32766), (259, 32772), (265, 32796), (268, 32811), (269, 32814), (279, 32874), (283, 32889), (287, 32907), (292, 32937), (293, 32943),

Gene: Halena_35 Start: 30295, Stop: 31602, Start Num: 39
Candidate Starts for Halena_35:
(Start: 39 @30295 has 77 MA's), (55, 30385), (57, 30391), (71, 30484), (103, 30673), (104, 30682), (107, 30694), (125, 30769), (127, 30781), (128, 30793), (129, 30796), (132, 30811), (138, 30838), (161, 30964), (172, 31030), (175, 31051), (225, 31234), (226, 31240), (238, 31270), (249, 31312), (269, 31420), (272, 31450), (283, 31495), (287, 31513), (291, 31537), (293, 31549),

Gene: Hammy_42 Start: 33006, Stop: 34274, Start Num: 42
Candidate Starts for Hammy_42:
(Start: 42 @33006 has 163 MA's), (Start: 43 @33009 has 13 MA's), (55, 33081), (57, 33087), (61, 33126), (67, 33159), (101, 33345), (103, 33363), (104, 33372), (107, 33384), (118, 33426), (134,

33489), (135, 33492), (139, 33525), (155, 33606), (164, 33657), (175, 33720), (177, 33729), (207, 33846), (222, 33894), (225, 33903), (243, 33954), (262, 34059), (267, 34092), (287, 34191), (303, 34263),

Gene: Hamulus_43 Start: 32980, Stop: 34269, Start Num: 42
Candidate Starts for Hamulus_43:
(Start: 42 @32980 has 163 MA's), (54, 33046), (60, 33100), (62, 33109), (65, 33127), (79, 33196), (80, 33208), (103, 33346), (128, 33442), (131, 33457), (134, 33466), (143, 33520), (152, 33553), (156, 33574), (175, 33685), (185, 33760), (211, 33871), (213, 33874), (225, 33913), (226, 33919), (227, 33922), (230, 33931), (232, 33937), (247, 33976), (249, 33979), (255, 34027), (258, 34039), (262, 34057), (267, 34078), (272, 34114), (276, 34132), (281, 34150), (283, 34159), (286, 34174), (296, 34228),

Gene: Harley_45 Start: 32333, Stop: 33622, Start Num: 42
Candidate Starts for Harley_45:
(Start: 42 @32333 has 163 MA's), (54, 32399), (60, 32453), (65, 32480), (79, 32549), (80, 32561), (103, 32699), (128, 32795), (131, 32810), (134, 32819), (143, 32873), (152, 32906), (156, 32927), (175, 33038), (185, 33113), (211, 33224), (213, 33227), (225, 33266), (226, 33272), (227, 33275), (232, 33290), (236, 33296), (247, 33329), (249, 33332), (255, 33380), (258, 33392), (262, 33410), (267, 33431), (272, 33467), (276, 33485), (281, 33503), (283, 33512), (286, 33527), (296, 33581),

Gene: Henrique_37 Start: 27284, Stop: 25926, Start Num: 34
Candidate Starts for Henrique_37:
(Start: 34 @27284 has 2 MA's), (60, 27140), (80, 27032), (82, 27020), (94, 26948), (106, 26873), (126, 26804), (127, 26798), (135, 26759), (149, 26690), (262, 26195), (275, 26138), (276, 26132), (279, 26120), (280, 26117), (281, 26114), (282, 26108), (283, 26105), (285, 26093), (288, 26084), (293, 26051), (294, 26045), (310, 25967), (311, 25964), (312, 25958),

Gene: Hiraya_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Hiraya_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904), (293, 32910),

Gene: HotPotato_36 Start: 27848, Stop: 26490, Start Num: 34
Candidate Starts for HotPotato_36:
(Start: 34 @27848 has 2 MA's), (60, 27704), (80, 27596), (82, 27584), (94, 27512), (106, 27437), (126, 27368), (127, 27362), (135, 27323), (149, 27254), (262, 26759), (275, 26702), (276, 26696), (279, 26684), (280, 26681), (281, 26678), (282, 26672), (283, 26669), (285, 26657), (288, 26648), (293, 26615), (294, 26609), (311, 26528), (312, 26522),

Gene: Hurricane_43 Start: 32582, Stop: 33862, Start Num: 42
Candidate Starts for Hurricane_43:
(Start: 42 @32582 has 163 MA's), (57, 32663), (61, 32702), (73, 32771), (91, 32882), (95, 32900), (99, 32918), (103, 32948), (104, 32957), (107, 32969), (118, 33011), (129, 33053), (135, 33077), (164, 33239), (165, 33242), (175, 33302), (177, 33311), (208, 33434), (225, 33488), (227, 33497), (249, 33563), (258, 33626), (267, 33677), (273, 33716), (293, 33812), (303, 33848),

Gene: IbOuu_43 Start: 32170, Stop: 33471, Start Num: 42
Candidate Starts for IbOuu_43:

(Start: 42 @32170 has 163 MA's), (54, 32236), (60, 32290), (65, 32317), (79, 32386), (80, 32398), (103, 32536), (125, 32608), (128, 32632), (131, 32647), (134, 32656), (143, 32710), (152, 32743), (156, 32764), (175, 32875), (185, 32950), (211, 33061), (213, 33064), (225, 33103), (226, 33109), (227, 33112), (230, 33121), (232, 33127), (236, 33133), (247, 33166), (249, 33169), (255, 33217), (258, 33229), (262, 33247), (267, 33268), (272, 33304), (276, 33322), (281, 33340), (283, 33349), (286, 33364), (296, 33418),

Gene: Ibhubesi_44 Start: 32340, Stop: 33641, Start Num: 42
Candidate Starts for Ibhubesi_44:
(Start: 42 @32340 has 163 MA's), (54, 32406), (60, 32460), (65, 32487), (79, 32556), (80, 32568), (103, 32706), (128, 32802), (131, 32817), (134, 32826), (143, 32880), (152, 32913), (156, 32934), (175, 33045), (185, 33120), (211, 33231), (213, 33234), (225, 33273), (226, 33279), (227, 33282), (230, 33291), (232, 33297), (236, 33303), (247, 33336), (249, 33339), (255, 33387), (258, 33399), (262, 33417), (267, 33438), (272, 33474), (276, 33492), (281, 33510), (283, 33519), (286, 33534), (296, 33588),

Gene: Ibrahim_33 Start: 27804, Stop: 29102, Start Num: 23
Candidate Starts for Ibrahim_33:
(Start: 14 @27780 has 1 MA's), (Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: Inventum_40 Start: 32277, Stop: 33578, Start Num: 42
Candidate Starts for Inventum_40:
(Start: 42 @32277 has 163 MA's), (54, 32343), (60, 32397), (62, 32406), (65, 32424), (79, 32493), (80, 32505), (103, 32643), (125, 32715), (128, 32739), (131, 32754), (134, 32763), (143, 32817), (152, 32850), (156, 32871), (175, 32982), (185, 33057), (211, 33168), (213, 33171), (225, 33210), (226, 33216), (227, 33219), (230, 33228), (232, 33234), (236, 33240), (247, 33273), (249, 33276), (255, 33324), (258, 33336), (262, 33354), (267, 33375), (272, 33411), (276, 33429), (281, 33447), (283, 33456), (286, 33471), (296, 33525),

Gene: Itos_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Itos_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: JF1_45 Start: 33574, Stop: 34860, Start Num: 19
Candidate Starts for JF1_45:
(Start: 19 @33574 has 1 MA's), (Start: 27 @33595 has 16 MA's), (30, 33607), (Start: 42 @33625 has 163 MA's), (Start: 53 @33682 has 2 MA's), (Start: 59 @33736 has 2 MA's), (63, 33760), (77, 33829), (88, 33880), (103, 33979), (104, 33988), (107, 34000), (135, 34108), (175, 34330), (177, 34339), (178, 34348), (192, 34399), (208, 34462), (234, 34543), (249, 34591), (267, 34681), (272, 34717), (279, 34747), (280, 34750), (283, 34762), (286, 34777), (288, 34783), (291, 34804), (293, 34816),

Gene: Jabbawokkie_57 Start: 33700, Stop: 34929, Start Num: 47
Candidate Starts for Jabbawokkie_57:
(Start: 47 @33700 has 2 MA's), (62, 33817), (79, 33904), (82, 33928), (103, 34051), (104, 34060), (117, 34111), (118, 34114), (120, 34117), (125, 34129), (128, 34153), (129, 34156), (141, 34219),

(154, 34276), (159, 34300), (164, 34327), (166, 34336), (174, 34378), (175, 34390), (177, 34399), (203, 34495), (210, 34525), (211, 34534), (213, 34537), (214, 34540), (225, 34576), (230, 34594), (247, 34648), (249, 34651), (251, 34678), (254, 34699), (259, 34717), (262, 34732), (272, 34777), (273, 34780), (281, 34813), (283, 34822), (286, 34837), (290, 34858), (291, 34864), (292, 34870), (296, 34891),

Gene: Jace_26 Start: 22288, Stop: 23565, Start Num: 43
Candidate Starts for Jace_26:
(Start: 43 @22288 has 13 MA's), (50, 22303), (54, 22360), (63, 22435), (90, 22576), (103, 22657), (104, 22666), (131, 22780), (155, 22888), (158, 22906), (161, 22915), (205, 23134), (224, 23197), (225, 23200), (226, 23206), (249, 23275), (250, 23281), (267, 23365), (276, 23419), (278, 23428), (279, 23431), (284, 23455), (287, 23464),

Gene: JalFarm20_52 Start: 34705, Stop: 35994, Start Num: 42
Candidate Starts for JalFarm20_52:
(Start: 42 @34705 has 163 MA's), (54, 34771), (60, 34825), (62, 34834), (65, 34852), (79, 34921), (80, 34933), (103, 35071), (128, 35167), (131, 35182), (134, 35191), (143, 35245), (152, 35278), (156, 35299), (175, 35410), (185, 35485), (211, 35596), (213, 35599), (225, 35638), (226, 35644), (227, 35647), (230, 35656), (232, 35662), (236, 35668), (247, 35701), (249, 35704), (255, 35752), (258, 35764), (262, 35782), (267, 35803), (272, 35839), (276, 35857), (281, 35875), (283, 35884), (286, 35899), (296, 35953),

Gene: Jarcob_44 Start: 33274, Stop: 34563, Start Num: 42
Candidate Starts for Jarcob_44:
(Start: 42 @33274 has 163 MA's), (54, 33340), (60, 33394), (62, 33403), (65, 33421), (79, 33490), (80, 33502), (103, 33640), (125, 33712), (128, 33736), (131, 33751), (134, 33760), (143, 33814), (152, 33847), (156, 33868), (175, 33979), (185, 34054), (211, 34165), (213, 34168), (225, 34207), (226, 34213), (227, 34216), (230, 34225), (232, 34231), (236, 34237), (247, 34270), (249, 34273), (255, 34321), (258, 34333), (262, 34351), (267, 34372), (272, 34408), (276, 34426), (281, 34444), (283, 34453), (286, 34468), (296, 34522),

Gene: Jinglebell_44 Start: 33144, Stop: 34454, Start Num: 42
Candidate Starts for Jinglebell_44:
(Start: 42 @33144 has 163 MA's), (54, 33210), (60, 33264), (65, 33291), (79, 33360), (80, 33372), (103, 33510), (128, 33606), (131, 33621), (134, 33630), (143, 33684), (152, 33717), (156, 33738), (175, 33849), (185, 33924), (211, 34035), (213, 34038), (225, 34077), (226, 34083), (227, 34086), (230, 34095), (232, 34101), (236, 34107), (247, 34140), (249, 34143), (255, 34191), (258, 34203), (262, 34221), (267, 34242), (272, 34278), (276, 34296), (281, 34314), (283, 34323), (286, 34338), (296, 34392),

Gene: Job42_44 Start: 33592, Stop: 34893, Start Num: 42
Candidate Starts for Job42_44:
(Start: 42 @33592 has 163 MA's), (54, 33658), (60, 33712), (65, 33739), (79, 33808), (80, 33820), (103, 33958), (125, 34030), (128, 34054), (131, 34069), (134, 34078), (143, 34132), (152, 34165), (156, 34186), (175, 34297), (185, 34372), (211, 34483), (213, 34486), (225, 34525), (226, 34531), (227, 34534), (230, 34543), (232, 34549), (236, 34555), (247, 34588), (249, 34591), (255, 34639), (258, 34651), (262, 34669), (267, 34690), (272, 34726), (276, 34744), (281, 34762), (283, 34771), (286, 34786), (296, 34840),

Gene: Jobypre_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for Jobypre_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828),

(243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: JoeDirt_35 Start: 30267, Stop: 31574, Start Num: 39
Candidate Starts for JoeDirt_35:
(Start: 39 @30267 has 77 MA's), (55, 30357), (57, 30363), (71, 30456), (103, 30645), (104, 30654), (107, 30666), (125, 30741), (127, 30753), (128, 30765), (129, 30768), (132, 30783), (138, 30810), (161, 30936), (172, 31002), (175, 31023), (225, 31206), (226, 31212), (238, 31242), (249, 31284), (269, 31392), (272, 31422), (283, 31467), (287, 31485), (291, 31509), (293, 31521),

Gene: JoeyJr_41 Start: 31764, Stop: 33065, Start Num: 42
Candidate Starts for JoeyJr_41:
(Start: 42 @31764 has 163 MA's), (54, 31830), (60, 31884), (62, 31893), (65, 31911), (79, 31980), (80, 31992), (103, 32130), (125, 32202), (128, 32226), (131, 32241), (134, 32250), (143, 32304), (152, 32337), (156, 32358), (175, 32469), (185, 32544), (211, 32655), (213, 32658), (225, 32697), (226, 32703), (227, 32706), (230, 32715), (232, 32721), (236, 32727), (247, 32760), (249, 32763), (255, 32811), (258, 32823), (262, 32841), (267, 32862), (272, 32898), (276, 32916), (281, 32934), (283, 32943), (286, 32958), (296, 33012),

Gene: Jubie_36 Start: 31899, Stop: 33191, Start Num: 39
Candidate Starts for Jubie_36:
(11, 31815), (18, 31848), (Start: 39 @31899 has 77 MA's), (Start: 53 @31974 has 2 MA's), (55, 31989), (104, 32286), (128, 32382), (136, 32415), (157, 32541), (161, 32553), (173, 32622), (226, 32829), (243, 32871), (249, 32901), (257, 32961), (268, 33006), (269, 33009), (272, 33039), (283, 33084), (287, 33102), (291, 33126), (293, 33138),

Gene: Juliette_47 Start: 33785, Stop: 35020, Start Num: 42
Candidate Starts for Juliette_47:
(Start: 19 @33734 has 1 MA's), (Start: 27 @33755 has 16 MA's), (30, 33767), (Start: 42 @33785 has 163 MA's), (Start: 53 @33842 has 2 MA's), (Start: 59 @33896 has 2 MA's), (63, 33920), (77, 33989), (88, 34040), (103, 34139), (104, 34148), (107, 34160), (128, 34241), (135, 34268), (175, 34490), (177, 34499), (178, 34508), (192, 34559), (208, 34622), (230, 34694), (234, 34703), (249, 34751), (267, 34841), (279, 34907), (280, 34910), (286, 34937), (288, 34943), (291, 34964), (293, 34976),

Gene: Kahlid_38 Start: 31661, Stop: 32968, Start Num: 39
Candidate Starts for Kahlid_38:
(Start: 19 @31616 has 1 MA's), (Start: 39 @31661 has 77 MA's), (Start: 53 @31733 has 2 MA's), (55, 31748), (63, 31811), (71, 31847), (104, 32045), (131, 32171), (161, 32327), (166, 32360), (173, 32396), (175, 32414), (177, 32423), (226, 32606), (238, 32636), (247, 32675), (249, 32678), (257, 32738), (259, 32744), (265, 32768), (268, 32783), (269, 32786), (279, 32846), (283, 32861), (287, 32879), (292, 32909), (293, 32915),

Gene: Karhdo_42 Start: 32421, Stop: 33710, Start Num: 42
Candidate Starts for Karhdo_42:
(Start: 42 @32421 has 163 MA's), (54, 32487), (60, 32541), (65, 32568), (79, 32637), (80, 32649), (103, 32787), (125, 32859), (128, 32883), (131, 32898), (134, 32907), (143, 32961), (152, 32994), (156, 33015), (175, 33126), (185, 33201), (211, 33312), (213, 33315), (225, 33354), (226, 33360), (227, 33363), (230, 33372), (232, 33378), (236, 33384), (247, 33417), (249, 33420), (255, 33468), (258, 33480), (262, 33498), (267, 33519), (272, 33555), (276, 33573), (281, 33591), (283, 33600), (286, 33615), (296, 33669),

Gene: Karkharias_37 Start: 27757, Stop: 26384, Start Num: 32
Candidate Starts for Karkharias_37:

(17, 27793), (Start: 32 @27757 has 2 MA's), (74, 27541), (80, 27508), (82, 27496), (86, 27478), (94, 27406), (106, 27331), (109, 27322), (113, 27301), (126, 27262), (127, 27256), (135, 27217), (149, 27148), (174, 27025), (212, 26833), (248, 26734), (264, 26644), (266, 26638), (275, 26596), (276, 26590), (279, 26578), (280, 26575), (281, 26572), (282, 26566), (283, 26563), (288, 26542), (293, 26509), (310, 26425), (312, 26416),

Gene: Kersh_43 Start: 33655, Stop: 34944, Start Num: 42
Candidate Starts for Kersh_43:
(Start: 42 @33655 has 163 MA's), (54, 33721), (60, 33775), (65, 33802), (79, 33871), (80, 33883), (103, 34021), (128, 34117), (131, 34132), (134, 34141), (143, 34195), (152, 34228), (156, 34249), (175, 34360), (185, 34435), (211, 34546), (213, 34549), (225, 34588), (226, 34594), (227, 34597), (232, 34612), (236, 34618), (247, 34651), (249, 34654), (255, 34702), (258, 34714), (262, 34732), (267, 34753), (272, 34789), (276, 34807), (281, 34825), (283, 34834), (286, 34849), (296, 34903),

Gene: Keshu_44 Start: 32647, Stop: 33933, Start Num: 42
Candidate Starts for Keshu_44:
(Start: 42 @32647 has 163 MA's), (57, 32728), (61, 32767), (73, 32836), (91, 32947), (95, 32965), (99, 32983), (103, 33013), (104, 33022), (107, 33034), (118, 33076), (129, 33118), (135, 33142), (164, 33304), (165, 33307), (175, 33367), (177, 33376), (208, 33499), (225, 33553), (227, 33562), (249, 33628), (258, 33691), (262, 33709), (267, 33742), (273, 33781), (293, 33877), (303, 33913),

Gene: Kimberlium_44 Start: 32953, Stop: 34242, Start Num: 42
Candidate Starts for Kimberlium_44:
(Start: 42 @32953 has 163 MA's), (54, 33019), (60, 33073), (65, 33100), (79, 33169), (80, 33181), (81, 33184), (103, 33319), (125, 33391), (128, 33415), (131, 33430), (134, 33439), (143, 33493), (152, 33526), (156, 33547), (175, 33658), (185, 33733), (211, 33844), (213, 33847), (226, 33892), (227, 33895), (230, 33904), (232, 33910), (236, 33916), (247, 33949), (249, 33952), (255, 34000), (258, 34012), (262, 34030), (267, 34051), (272, 34087), (276, 34105), (281, 34123), (283, 34132), (286, 34147), (296, 34201),

Gene: KingMidas_44 Start: 33426, Stop: 34727, Start Num: 42
Candidate Starts for KingMidas_44:
(Start: 42 @33426 has 163 MA's), (54, 33492), (60, 33546), (62, 33555), (65, 33573), (79, 33642), (80, 33654), (103, 33792), (125, 33864), (128, 33888), (131, 33903), (134, 33912), (143, 33966), (152, 33999), (156, 34020), (175, 34131), (185, 34206), (211, 34317), (213, 34320), (225, 34359), (226, 34365), (227, 34368), (230, 34377), (232, 34383), (236, 34389), (247, 34422), (249, 34425), (255, 34473), (258, 34485), (262, 34503), (267, 34524), (272, 34560), (276, 34578), (281, 34596), (283, 34605), (286, 34620), (296, 34674),

Gene: Kingsolomon_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for Kingsolomon_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: KirDoubleO7_34 Start: 31905, Stop: 33209, Start Num: 39
Candidate Starts for KirDoubleO7_34:
(Start: 39 @31905 has 77 MA's), (52, 31956), (55, 31992), (57, 31998), (80, 32148), (103, 32280), (104, 32289), (127, 32388), (136, 32433), (157, 32559), (161, 32571), (173, 32640), (193, 32730), (211, 32799), (226, 32847), (243, 32889), (249, 32919), (257, 32979), (259, 32985), (268, 33024), (269, 33027), (272, 33057), (283, 33102), (287, 33120), (293, 33156),

Gene: Koella_38 Start: 29196, Stop: 30497, Start Num: 42
Candidate Starts for Koella_38:
(Start: 42 @29196 has 163 MA's), (54, 29262), (60, 29316), (62, 29325), (65, 29343), (79, 29412), (80, 29424), (103, 29562), (125, 29634), (128, 29658), (131, 29673), (134, 29682), (143, 29736), (152, 29769), (156, 29790), (175, 29901), (185, 29976), (211, 30087), (213, 30090), (225, 30129), (226, 30135), (227, 30138), (230, 30147), (232, 30153), (236, 30159), (247, 30192), (249, 30195), (255, 30243), (258, 30255), (262, 30273), (267, 30294), (272, 30330), (276, 30348), (281, 30366), (283, 30375), (286, 30390), (296, 30444),

Gene: Krakatau_41 Start: 32101, Stop: 33402, Start Num: 42
Candidate Starts for Krakatau_41:
(Start: 42 @32101 has 163 MA's), (54, 32167), (60, 32221), (65, 32248), (79, 32317), (80, 32329), (103, 32467), (128, 32563), (131, 32578), (134, 32587), (143, 32641), (152, 32674), (156, 32695), (161, 32716), (175, 32806), (185, 32881), (211, 32992), (213, 32995), (225, 33034), (226, 33040), (227, 33043), (230, 33052), (232, 33058), (236, 33064), (247, 33097), (249, 33100), (255, 33148), (258, 33160), (262, 33178), (267, 33199), (272, 33235), (276, 33253), (281, 33271), (283, 33280), (286, 33295), (296, 33349),

Gene: Kraw_45 Start: 33443, Stop: 34708, Start Num: 27
Candidate Starts for Kraw_45:
(Start: 19 @33422 has 1 MA's), (Start: 27 @33443 has 16 MA's), (30, 33455), (Start: 42 @33473 has 163 MA's), (Start: 53 @33530 has 2 MA's), (Start: 59 @33584 has 2 MA's), (63, 33608), (77, 33677), (88, 33728), (103, 33827), (104, 33836), (107, 33848), (128, 33929), (135, 33956), (175, 34178), (177, 34187), (178, 34196), (192, 34247), (208, 34310), (230, 34382), (234, 34391), (249, 34439), (267, 34529), (279, 34595), (280, 34598), (286, 34625), (288, 34631), (291, 34652), (293, 34664),

Gene: Kropertea_37 Start: 30432, Stop: 31739, Start Num: 39
Candidate Starts for Kropertea_37:
(Start: 27 @30411 has 16 MA's), (Start: 39 @30432 has 77 MA's), (63, 30585), (77, 30657), (83, 30690), (100, 30783), (102, 30792), (103, 30807), (104, 30816), (124, 30897), (135, 30954), (140, 30990), (157, 31086), (161, 31098), (166, 31131), (173, 31167), (175, 31185), (192, 31254), (193, 31260), (226, 31377), (243, 31419), (249, 31449), (257, 31509), (259, 31515), (269, 31557), (272, 31587), (283, 31632), (287, 31650), (291, 31674), (292, 31680),

Gene: Krueger_46 Start: 32803, Stop: 34188, Start Num: 38
Candidate Starts for Krueger_46:
(20, 32773), (Start: 38 @32803 has 22 MA's), (Start: 53 @32878 has 2 MA's), (55, 32893), (60, 32935), (77, 33028), (88, 33082), (103, 33181), (104, 33190), (105, 33193), (174, 33523), (175, 33535), (177, 33544), (192, 33619), (207, 33679), (214, 33700), (222, 33727), (224, 33733), (226, 33742), (262, 33898), (279, 33988), (317, 34174),

Gene: Krypton555_36 Start: 31803, Stop: 33095, Start Num: 39
Candidate Starts for Krypton555_36:
(Start: 39 @31803 has 77 MA's), (Start: 53 @31878 has 2 MA's), (54, 31884), (55, 31893), (104, 32190), (128, 32286), (136, 32319), (157, 32445), (161, 32457), (173, 32526), (226, 32733), (243, 32775), (249, 32805), (257, 32865), (268, 32910), (269, 32913), (272, 32943), (283, 32988), (287, 33006), (291, 33030), (293, 33042),

Gene: Kuwabara_46 Start: 31894, Stop: 33123, Start Num: 42
Candidate Starts for Kuwabara_46:
(Start: 39 @31885 has 77 MA's), (Start: 42 @31894 has 163 MA's), (Start: 53 @31960 has 2 MA's), (68, 32050), (78, 32101), (80, 32113), (87, 32149), (92, 32185), (104, 32257), (108, 32269), (127, 32341), (135, 32380), (173, 32572), (183, 32635), (200, 32707), (233, 32767), (235, 32770), (247,

32812), (249, 32815), (263, 32899), (273, 32959), (281, 32992), (286, 33016),

Gene: Latretium_45 Start: 33223, Stop: 34524, Start Num: 42
Candidate Starts for Latretium_45:
(Start: 42 @33223 has 163 MA's), (54, 33289), (60, 33343), (62, 33352), (65, 33370), (79, 33439), (80, 33451), (103, 33589), (125, 33661), (128, 33685), (131, 33700), (134, 33709), (143, 33763), (152, 33796), (156, 33817), (175, 33928), (185, 34003), (211, 34114), (213, 34117), (225, 34156), (226, 34162), (227, 34165), (230, 34174), (232, 34180), (236, 34186), (247, 34219), (249, 34222), (255, 34270), (258, 34282), (262, 34300), (267, 34321), (272, 34357), (276, 34375), (281, 34393), (283, 34402), (286, 34417), (296, 34471),

Gene: Lavahound_41 Start: 33437, Stop: 34813, Start Num: 38
Candidate Starts for Lavahound_41:
(Start: 38 @33437 has 22 MA's), (Start: 53 @33512 has 2 MA's), (77, 33662), (84, 33701), (88, 33716), (103, 33815), (104, 33824), (127, 33905), (174, 34160), (175, 34172), (177, 34181), (192, 34256), (207, 34316), (214, 34337), (222, 34364), (224, 34370), (226, 34379), (249, 34454), (262, 34535), (316, 34790),

Gene: LeBron_36 Start: 30311, Stop: 31618, Start Num: 39
Candidate Starts for LeBron_36:
(Start: 39 @30311 has 77 MA's), (55, 30401), (57, 30407), (71, 30500), (103, 30689), (104, 30698), (107, 30710), (125, 30785), (127, 30797), (128, 30809), (129, 30812), (132, 30827), (138, 30854), (161, 30980), (172, 31046), (175, 31067), (225, 31250), (226, 31256), (238, 31286), (249, 31328), (269, 31436), (272, 31466), (283, 31511), (287, 31529), (291, 31553), (293, 31565),

Gene: Lea83_43 Start: 32611, Stop: 33891, Start Num: 42
Candidate Starts for Lea83_43:
(Start: 42 @32611 has 163 MA's), (57, 32692), (61, 32731), (73, 32800), (91, 32911), (95, 32929), (99, 32947), (103, 32977), (104, 32986), (107, 32998), (118, 33040), (129, 33082), (135, 33106), (164, 33268), (165, 33271), (175, 33331), (177, 33340), (208, 33463), (225, 33517), (227, 33526), (249, 33592), (258, 33655), (267, 33706), (273, 33745), (299, 33865), (303, 33877),

Gene: Lebo14_45 Start: 33737, Stop: 34972, Start Num: 42
Candidate Starts for Lebo14_45:
(Start: 19 @33686 has 1 MA's), (Start: 27 @33707 has 16 MA's), (30, 33719), (Start: 42 @33737 has 163 MA's), (Start: 53 @33794 has 2 MA's), (Start: 59 @33848 has 2 MA's), (63, 33872), (77, 33941), (88, 33992), (103, 34091), (104, 34100), (107, 34112), (128, 34193), (135, 34220), (175, 34442), (177, 34451), (178, 34460), (192, 34511), (208, 34574), (230, 34646), (234, 34655), (249, 34703), (267, 34793), (279, 34859), (280, 34862), (286, 34889), (288, 34895), (291, 34916), (293, 34928),

Gene: Leozinho_43 Start: 32017, Stop: 33318, Start Num: 42
Candidate Starts for Leozinho_43:
(Start: 42 @32017 has 163 MA's), (54, 32083), (60, 32137), (65, 32164), (79, 32233), (80, 32245), (103, 32383), (125, 32455), (128, 32479), (131, 32494), (134, 32503), (143, 32557), (152, 32590), (156, 32611), (175, 32722), (185, 32797), (211, 32908), (213, 32911), (225, 32950), (226, 32956), (227, 32959), (230, 32968), (232, 32974), (236, 32980), (247, 33013), (249, 33016), (255, 33064), (258, 33076), (262, 33094), (267, 33115), (272, 33151), (276, 33169), (281, 33187), (283, 33196), (286, 33211), (296, 33265),

Gene: Leperchaun_38 Start: 30994, Stop: 32295, Start Num: 42
Candidate Starts for Leperchaun_38:
(Start: 42 @30994 has 163 MA's), (54, 31060), (60, 31114), (62, 31123), (65, 31141), (79, 31210), (80, 31222), (103, 31360), (125, 31432), (128, 31456), (131, 31471), (134, 31480), (143, 31534), (152,

31567), (156, 31588), (175, 31699), (185, 31774), (211, 31885), (213, 31888), (225, 31927), (226, 31933), (227, 31936), (230, 31945), (232, 31951), (236, 31957), (247, 31990), (249, 31993), (255, 32041), (258, 32053), (262, 32071), (267, 32092), (272, 32128), (276, 32146), (281, 32164), (283, 32173), (286, 32188), (296, 32242),

Gene: Lewan_38 Start: 31655, Stop: 32956, Start Num: 39
Candidate Starts for Lewan_38:
(Start: 19 @31610 has 1 MA's), (Start: 39 @31655 has 77 MA's), (Start: 53 @31727 has 2 MA's), (57, 31748), (71, 31841), (84, 31916), (104, 32039), (131, 32165), (161, 32321), (166, 32354), (172, 32387), (175, 32408), (193, 32480), (211, 32549), (225, 32591), (226, 32597), (238, 32627), (247, 32666), (249, 32669), (257, 32729), (258, 32732), (259, 32735), (265, 32759), (267, 32771), (268, 32774), (272, 32807), (274, 32813), (287, 32870), (292, 32900), (293, 32906),

Gene: LilDestine_38 Start: 31654, Stop: 32961, Start Num: 39
Candidate Starts for LilDestine_38:
(Start: 19 @31609 has 1 MA's), (Start: 39 @31654 has 77 MA's), (Start: 53 @31726 has 2 MA's), (55, 31741), (63, 31804), (71, 31840), (104, 32038), (131, 32164), (161, 32320), (166, 32353), (173, 32389), (175, 32407), (177, 32416), (226, 32599), (238, 32629), (247, 32668), (257, 32731), (259, 32737), (265, 32761), (268, 32776), (269, 32779), (279, 32839), (283, 32854), (287, 32872), (292, 32902), (293, 32908),

Gene: LilMoolah_42 Start: 31995, Stop: 33296, Start Num: 42
Candidate Starts for LilMoolah_42:
(Start: 42 @31995 has 163 MA's), (54, 32061), (60, 32115), (62, 32124), (65, 32142), (79, 32211), (80, 32223), (103, 32361), (125, 32433), (128, 32457), (131, 32472), (134, 32481), (143, 32535), (152, 32568), (156, 32589), (175, 32700), (185, 32775), (211, 32886), (213, 32889), (225, 32928), (226, 32934), (227, 32937), (230, 32946), (232, 32952), (236, 32958), (247, 32991), (249, 32994), (255, 33042), (258, 33054), (262, 33072), (267, 33093), (272, 33129), (276, 33147), (281, 33165), (283, 33174), (286, 33189), (296, 33243),

Gene: LittleShirley_43 Start: 33047, Stop: 34336, Start Num: 42
Candidate Starts for LittleShirley_43:
(Start: 42 @33047 has 163 MA's), (54, 33113), (60, 33167), (65, 33194), (79, 33263), (80, 33275), (81, 33278), (103, 33413), (125, 33485), (128, 33509), (131, 33524), (134, 33533), (143, 33587), (152, 33620), (156, 33641), (175, 33752), (185, 33827), (211, 33938), (213, 33941), (226, 33986), (227, 33989), (230, 33998), (232, 34004), (236, 34010), (247, 34043), (249, 34046), (255, 34094), (258, 34106), (262, 34124), (267, 34145), (272, 34181), (276, 34199), (281, 34217), (283, 34226), (286, 34241), (296, 34295),

Gene: LiyuLake_36 Start: 31863, Stop: 33167, Start Num: 39
Candidate Starts for LiyuLake_36:
(Start: 39 @31863 has 77 MA's), (55, 31950), (57, 31956), (80, 32106), (103, 32238), (104, 32247), (127, 32346), (136, 32391), (157, 32517), (161, 32529), (173, 32598), (193, 32688), (226, 32805), (243, 32847), (249, 32877), (257, 32937), (259, 32943), (268, 32982), (269, 32985), (272, 33015), (279, 33045), (283, 33060), (287, 33078), (291, 33102), (293, 33114),

Gene: Lizziana_50 Start: 34269, Stop: 35570, Start Num: 42
Candidate Starts for Lizziana_50:
(Start: 42 @34269 has 163 MA's), (54, 34335), (60, 34389), (62, 34398), (65, 34416), (79, 34485), (80, 34497), (103, 34635), (125, 34707), (128, 34731), (131, 34746), (134, 34755), (143, 34809), (152, 34842), (156, 34863), (175, 34974), (185, 35049), (211, 35160), (213, 35163), (225, 35202), (226, 35208), (227, 35211), (230, 35220), (232, 35226), (236, 35232), (247, 35265), (249, 35268), (255, 35316), (258, 35328), (262, 35346), (267, 35367), (272, 35403), (276, 35421), (281, 35439), (283,

35448), (286, 35463), (296, 35517),

Gene: Llama_45 Start: 33142, Stop: 34452, Start Num: 42
Candidate Starts for Llama_45:
(Start: 42 @33142 has 163 MA's), (54, 33208), (60, 33262), (65, 33289), (79, 33358), (80, 33370), (103, 33508), (128, 33604), (131, 33619), (134, 33628), (143, 33682), (152, 33715), (156, 33736), (175, 33847), (185, 33922), (211, 34033), (213, 34036), (225, 34075), (226, 34081), (227, 34084), (230, 34093), (232, 34099), (236, 34105), (247, 34138), (249, 34141), (255, 34189), (258, 34201), (262, 34219), (267, 34240), (272, 34276), (276, 34294), (281, 34312), (283, 34321), (286, 34336), (296, 34390),

Gene: Llij_40 Start: 31422, Stop: 32711, Start Num: 42
Candidate Starts for Llij_40:
(Start: 42 @31422 has 163 MA's), (54, 31488), (60, 31542), (62, 31551), (65, 31569), (79, 31638), (80, 31650), (103, 31788), (125, 31860), (128, 31884), (131, 31899), (134, 31908), (143, 31962), (152, 31995), (156, 32016), (161, 32037), (175, 32127), (185, 32202), (211, 32313), (213, 32316), (225, 32355), (226, 32361), (227, 32364), (230, 32373), (232, 32379), (236, 32385), (247, 32418), (249, 32421), (255, 32469), (258, 32481), (262, 32499), (267, 32520), (272, 32556), (276, 32574), (281, 32592), (283, 32601), (286, 32616), (296, 32670),

Gene: Loadrie_38 Start: 31687, Stop: 32994, Start Num: 39
Candidate Starts for Loadrie_38:
(Start: 19 @31642 has 1 MA's), (Start: 39 @31687 has 77 MA's), (Start: 53 @31759 has 2 MA's), (55, 31774), (63, 31837), (71, 31873), (104, 32071), (131, 32197), (161, 32353), (166, 32386), (173, 32422), (175, 32440), (177, 32449), (226, 32632), (238, 32662), (247, 32701), (249, 32704), (257, 32764), (259, 32770), (265, 32794), (268, 32809), (269, 32812), (279, 32872), (283, 32887), (287, 32905), (292, 32935), (293, 32941),

Gene: Lolly9_36 Start: 31683, Stop: 32990, Start Num: 39
Candidate Starts for Lolly9_36:
(16, 31626), (Start: 39 @31683 has 77 MA's), (Start: 53 @31758 has 2 MA's), (55, 31773), (103, 32061), (104, 32070), (127, 32169), (136, 32214), (157, 32340), (161, 32352), (173, 32421), (193, 32511), (226, 32628), (243, 32670), (249, 32700), (257, 32760), (259, 32766), (268, 32805), (269, 32808), (272, 32838), (283, 32883), (287, 32901), (291, 32925), (292, 32931), (293, 32937),

Gene: Lucia_41 Start: 31553, Stop: 32854, Start Num: 42
Candidate Starts for Lucia_41:
(Start: 42 @31553 has 163 MA's), (54, 31619), (60, 31673), (65, 31700), (79, 31769), (80, 31781), (103, 31919), (125, 31991), (128, 32015), (131, 32030), (134, 32039), (143, 32093), (152, 32126), (156, 32147), (175, 32258), (185, 32333), (211, 32444), (213, 32447), (225, 32486), (226, 32492), (227, 32495), (230, 32504), (232, 32510), (236, 32516), (247, 32549), (249, 32552), (255, 32600), (258, 32612), (262, 32630), (267, 32651), (272, 32687), (276, 32705), (281, 32723), (283, 32732), (286, 32747), (296, 32801),

Gene: Lumos_36 Start: 31895, Stop: 33187, Start Num: 39
Candidate Starts for Lumos_36:
(11, 31811), (18, 31844), (Start: 39 @31895 has 77 MA's), (Start: 53 @31970 has 2 MA's), (55, 31985), (104, 32282), (128, 32378), (136, 32411), (157, 32537), (161, 32549), (173, 32618), (226, 32825), (243, 32867), (249, 32897), (257, 32957), (268, 33002), (269, 33005), (272, 33035), (283, 33080), (287, 33098), (291, 33122), (293, 33134),

Gene: Lynnae_38 Start: 31644, Stop: 32951, Start Num: 39
Candidate Starts for Lynnae_38:

(Start: 19 @31599 has 1 MA's), (Start: 39 @31644 has 77 MA's), (Start: 53 @31716 has 2 MA's), (55, 31731), (63, 31794), (71, 31830), (104, 32028), (131, 32154), (161, 32310), (166, 32343), (173, 32379), (175, 32397), (177, 32406), (226, 32589), (238, 32619), (247, 32658), (249, 32661), (257, 32721), (259, 32727), (265, 32751), (268, 32766), (269, 32769), (279, 32829), (283, 32844), (287, 32862), (292, 32892), (293, 32898),

Gene: MAckerman_36 Start: 30289, Stop: 31596, Start Num: 39
Candidate Starts for MAckerman_36:
(Start: 39 @30289 has 77 MA's), (55, 30379), (57, 30385), (71, 30478), (103, 30667), (104, 30676), (107, 30688), (125, 30763), (127, 30775), (128, 30787), (129, 30790), (132, 30805), (138, 30832), (161, 30958), (172, 31024), (175, 31045), (225, 31228), (226, 31234), (238, 31264), (249, 31306), (269, 31414), (272, 31444), (283, 31489), (287, 31507), (291, 31531), (293, 31543),

Gene: MacnCheese_44 Start: 33533, Stop: 34810, Start Num: 42
Candidate Starts for MacnCheese_44:
(8, 33407), (Start: 42 @33533 has 163 MA's), (55, 33608), (57, 33614), (61, 33653), (91, 33833), (99, 33869), (103, 33899), (104, 33908), (107, 33920), (117, 33959), (118, 33962), (129, 34004), (135, 34028), (153, 34127), (165, 34193), (167, 34214), (175, 34253), (177, 34262), (207, 34382), (208, 34385), (225, 34439), (227, 34448), (245, 34502), (249, 34514), (258, 34577), (267, 34628), (273, 34667), (276, 34682), (287, 34727), (303, 34799),

Gene: MadMen_38 Start: 31057, Stop: 32358, Start Num: 42
Candidate Starts for MadMen_38:
(Start: 42 @31057 has 163 MA's), (54, 31123), (60, 31177), (62, 31186), (65, 31204), (79, 31273), (80, 31285), (103, 31423), (125, 31495), (128, 31519), (131, 31534), (134, 31543), (143, 31597), (152, 31630), (156, 31651), (175, 31762), (185, 31837), (211, 31948), (213, 31951), (225, 31990), (226, 31996), (227, 31999), (230, 32008), (232, 32014), (236, 32020), (247, 32053), (249, 32056), (255, 32104), (258, 32116), (262, 32134), (267, 32155), (272, 32191), (276, 32209), (281, 32227), (283, 32236), (286, 32251), (296, 32305),

Gene: Madiba_39 Start: 30348, Stop: 31637, Start Num: 42
Candidate Starts for Madiba_39:
(Start: 42 @30348 has 163 MA's), (54, 30414), (60, 30468), (65, 30495), (80, 30576), (103, 30714), (128, 30810), (131, 30825), (134, 30834), (143, 30888), (152, 30921), (156, 30942), (175, 31053), (185, 31128), (211, 31239), (213, 31242), (226, 31287), (227, 31290), (232, 31305), (236, 31311), (247, 31344), (249, 31347), (255, 31395), (258, 31407), (262, 31425), (267, 31446), (272, 31482), (276, 31500), (281, 31518), (283, 31527), (286, 31542), (296, 31596),

Gene: Mahavrat_39 Start: 31314, Stop: 32603, Start Num: 42
Candidate Starts for Mahavrat_39:
(Start: 42 @31314 has 163 MA's), (54, 31380), (60, 31434), (65, 31461), (79, 31530), (80, 31542), (103, 31680), (128, 31776), (131, 31791), (134, 31800), (143, 31854), (152, 31887), (156, 31908), (175, 32019), (185, 32094), (211, 32205), (213, 32208), (225, 32247), (226, 32253), (227, 32256), (230, 32265), (232, 32271), (236, 32277), (247, 32310), (249, 32313), (255, 32361), (258, 32373), (262, 32391), (267, 32412), (272, 32448), (276, 32466), (281, 32484), (286, 32508), (296, 32562),

Gene: Malisha_44 Start: 31424, Stop: 32641, Start Num: 42
Candidate Starts for Malisha_44:
(1, 31166), (4, 31250), (5, 31274), (Start: 42 @31424 has 163 MA's), (Start: 53 @31487 has 2 MA's), (54, 31493), (68, 31577), (104, 31784), (125, 31856), (127, 31868), (135, 31907), (142, 31952), (146, 31970), (165, 32057), (177, 32126), (183, 32162), (200, 32234), (216, 32267), (218, 32276), (221, 32285), (249, 32342), (260, 32411), (263, 32426), (265, 32435), (276, 32501), (281, 32519),

Gene: Malthus_46 Start: 33443, Stop: 34708, Start Num: 27
Candidate Starts for Malthus_46:
(Start: 19 @33422 has 1 MA's), (Start: 27 @33443 has 16 MA's), (30, 33455), (Start: 42 @33473 has 163 MA's), (Start: 53 @33530 has 2 MA's), (Start: 59 @33584 has 2 MA's), (63, 33608), (77, 33677), (88, 33728), (103, 33827), (104, 33836), (107, 33848), (128, 33929), (135, 33956), (175, 34178), (177, 34187), (178, 34196), (192, 34247), (208, 34310), (230, 34382), (234, 34391), (249, 34439), (267, 34529), (279, 34595), (280, 34598), (286, 34625), (288, 34631), (291, 34652), (293, 34664),

Gene: Mantra_40 Start: 31505, Stop: 32794, Start Num: 42
Candidate Starts for Mantra_40:
(Start: 42 @31505 has 163 MA's), (54, 31571), (60, 31625), (65, 31652), (79, 31721), (80, 31733), (103, 31871), (128, 31967), (131, 31982), (134, 31991), (143, 32045), (152, 32078), (156, 32099), (175, 32210), (185, 32285), (211, 32396), (213, 32399), (225, 32438), (226, 32444), (227, 32447), (230, 32456), (232, 32462), (236, 32468), (247, 32501), (249, 32504), (255, 32552), (258, 32564), (262, 32582), (267, 32603), (272, 32639), (276, 32657), (281, 32675), (283, 32684), (286, 32699), (296, 32753),

Gene: Maravista_42 Start: 32697, Stop: 33998, Start Num: 42
Candidate Starts for Maravista_42:
(Start: 42 @32697 has 163 MA's), (54, 32763), (60, 32817), (65, 32844), (79, 32913), (80, 32925), (103, 33063), (128, 33159), (131, 33174), (134, 33183), (143, 33237), (152, 33270), (156, 33291), (175, 33402), (185, 33477), (211, 33588), (213, 33591), (225, 33630), (226, 33636), (227, 33639), (230, 33648), (232, 33654), (236, 33660), (247, 33693), (249, 33696), (255, 33744), (258, 33756), (262, 33774), (267, 33795), (272, 33831), (276, 33849), (281, 33867), (286, 33891), (296, 33945),

Gene: Marker_43 Start: 31907, Stop: 33208, Start Num: 42
Candidate Starts for Marker_43:
(Start: 42 @31907 has 163 MA's), (54, 31973), (60, 32027), (65, 32054), (79, 32123), (80, 32135), (81, 32138), (103, 32273), (125, 32345), (128, 32369), (131, 32384), (134, 32393), (143, 32447), (152, 32480), (156, 32501), (175, 32612), (185, 32687), (211, 32798), (213, 32801), (226, 32846), (227, 32849), (230, 32858), (232, 32864), (236, 32870), (247, 32903), (249, 32906), (255, 32954), (258, 32966), (262, 32984), (272, 33041), (276, 33059), (281, 33077), (283, 33086), (286, 33101), (296, 33155),

Gene: Martik_44 Start: 33222, Stop: 34523, Start Num: 42
Candidate Starts for Martik_44:
(Start: 42 @33222 has 163 MA's), (54, 33288), (60, 33342), (62, 33351), (65, 33369), (79, 33438), (80, 33450), (103, 33588), (125, 33660), (128, 33684), (131, 33699), (134, 33708), (143, 33762), (152, 33795), (156, 33816), (175, 33927), (185, 34002), (211, 34113), (213, 34116), (225, 34155), (226, 34161), (227, 34164), (230, 34173), (232, 34179), (236, 34185), (247, 34218), (249, 34221), (255, 34269), (258, 34281), (262, 34299), (267, 34320), (272, 34356), (276, 34374), (281, 34392), (283, 34401), (286, 34416), (296, 34470),

Gene: Mendokysei_31 Start: 27397, Stop: 28584, Start Num: 53
Candidate Starts for Mendokysei_31:
(Start: 23 @27286 has 4 MA's), (Start: 26 @27295 has 1 MA's), (Start: 36 @27319 has 4 MA's), (Start: 43 @27337 has 13 MA's), (Start: 53 @27397 has 2 MA's), (57, 27418), (79, 27550), (84, 27583), (88, 27598), (104, 27706), (117, 27751), (118, 27754), (127, 27781), (128, 27793), (131, 27808), (161, 27967), (170, 28030), (211, 28192), (234, 28261), (238, 28270), (249, 28315), (252, 28345), (258, 28378), (259, 28381), (279, 28471), (281, 28477), (283, 28486), (302, 28573),

Gene: Miley16_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Miley16_38:

(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: MiniLon_36 Start: 31684, Stop: 32991, Start Num: 39
Candidate Starts for MiniLon_36:
(16, 31627), (Start: 39 @31684 has 77 MA's), (Start: 53 @31759 has 2 MA's), (55, 31774), (103, 32062), (104, 32071), (127, 32170), (136, 32215), (157, 32341), (161, 32353), (173, 32422), (193, 32512), (226, 32629), (243, 32671), (249, 32701), (257, 32761), (259, 32767), (268, 32806), (269, 32809), (272, 32839), (283, 32884), (287, 32902), (291, 32926), (292, 32932), (293, 32938),

Gene: MiniMac_36 Start: 31681, Stop: 32988, Start Num: 39
Candidate Starts for MiniMac_36:
(16, 31624), (Start: 39 @31681 has 77 MA's), (Start: 53 @31756 has 2 MA's), (55, 31771), (103, 32059), (104, 32068), (127, 32167), (136, 32212), (157, 32338), (161, 32350), (173, 32419), (193, 32509), (226, 32626), (243, 32668), (249, 32698), (257, 32758), (259, 32764), (268, 32803), (269, 32806), (272, 32836), (283, 32881), (287, 32899), (291, 32923), (292, 32929), (293, 32935),

Gene: Misha28_40 Start: 30866, Stop: 32137, Start Num: 43
Candidate Starts for Misha28_40:
(Start: 43 @30866 has 13 MA's), (54, 30929), (60, 30983), (62, 30992), (65, 31010), (79, 31079), (80, 31091), (103, 31229), (131, 31340), (143, 31403), (156, 31457), (173, 31550), (211, 31751), (225, 31793), (226, 31799), (230, 31811), (236, 31823), (240, 31832), (243, 31838), (247, 31856), (249, 31859), (258, 31919), (262, 31937), (267, 31958), (276, 32012), (281, 32030), (286, 32054), (294, 32099), (296, 32108), (303, 32129),

Gene: MissDaisy_43 Start: 32928, Stop: 34193, Start Num: 27
Candidate Starts for MissDaisy_43:
(Start: 27 @32928 has 16 MA's), (30, 32940), (Start: 42 @32958 has 163 MA's), (Start: 53 @33015 has 2 MA's), (Start: 59 @33069 has 2 MA's), (71, 33129), (77, 33162), (88, 33213), (103, 33312), (104, 33321), (107, 33333), (129, 33417), (135, 33441), (175, 33663), (177, 33672), (178, 33681), (192, 33732), (208, 33795), (234, 33876), (249, 33924), (257, 33984), (259, 33990), (267, 34014), (280, 34083), (286, 34110), (288, 34116), (293, 34149),

Gene: MisterCuddles_43 Start: 32606, Stop: 33907, Start Num: 42
Candidate Starts for MisterCuddles_43:
(Start: 42 @32606 has 163 MA's), (54, 32672), (60, 32726), (62, 32735), (65, 32753), (79, 32822), (80, 32834), (103, 32972), (125, 33044), (128, 33068), (131, 33083), (134, 33092), (143, 33146), (152, 33179), (156, 33200), (175, 33311), (185, 33386), (211, 33497), (213, 33500), (225, 33539), (226, 33545), (227, 33548), (230, 33557), (232, 33563), (236, 33569), (247, 33602), (249, 33605), (255, 33653), (258, 33665), (262, 33683), (267, 33704), (272, 33740), (276, 33758), (281, 33776), (283, 33785), (286, 33800), (296, 33854),

Gene: Mitti_45 Start: 33619, Stop: 34884, Start Num: 27
Candidate Starts for Mitti_45:
(Start: 19 @33598 has 1 MA's), (Start: 27 @33619 has 16 MA's), (30, 33631), (Start: 42 @33649 has 163 MA's), (Start: 53 @33706 has 2 MA's), (Start: 59 @33760 has 2 MA's), (63, 33784), (77, 33853), (88, 33904), (103, 34003), (104, 34012), (107, 34024), (128, 34105), (135, 34132), (175, 34354), (177, 34363), (178, 34372), (192, 34423), (208, 34486), (230, 34558), (234, 34567), (249, 34615), (267, 34705), (279, 34771), (280, 34774), (286, 34801), (288, 34807), (291, 34828), (293, 34840),

Gene: MkaliMitinis3_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for MkaliMitinis3_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904), (293, 32910),

Gene: Modragons_44 Start: 32988, Stop: 34298, Start Num: 42
Candidate Starts for Modragons_44:
(Start: 42 @32988 has 163 MA's), (54, 33054), (60, 33108), (65, 33135), (79, 33204), (80, 33216), (103, 33354), (128, 33450), (131, 33465), (134, 33474), (143, 33528), (152, 33561), (156, 33582), (175, 33693), (185, 33768), (211, 33879), (213, 33882), (225, 33921), (226, 33927), (227, 33930), (230, 33939), (232, 33945), (236, 33951), (247, 33984), (249, 33987), (255, 34035), (258, 34047), (262, 34065), (267, 34086), (272, 34122), (276, 34140), (281, 34158), (283, 34167), (286, 34182), (296, 34236),

Gene: Molivier_38 Start: 31653, Stop: 32960, Start Num: 39
Candidate Starts for Molivier_38:
(Start: 19 @31608 has 1 MA's), (Start: 39 @31653 has 77 MA's), (Start: 53 @31725 has 2 MA's), (55, 31740), (71, 31839), (104, 32037), (131, 32163), (161, 32319), (166, 32352), (173, 32388), (175, 32406), (177, 32415), (226, 32598), (238, 32628), (247, 32667), (249, 32670), (257, 32730), (259, 32736), (265, 32760), (268, 32775), (269, 32778), (279, 32838), (283, 32853), (287, 32871), (292, 32901), (293, 32907),

Gene: Mollymur_63 Start: 47480, Stop: 48832, Start Num: 43
Candidate Starts for Mollymur_63:
(Start: 43 @47480 has 13 MA's), (Start: 53 @47546 has 2 MA's), (80, 47711), (82, 47723), (103, 47846), (104, 47855), (121, 47954), (127, 47984), (135, 48029), (158, 48143), (160, 48149), (164, 48176), (176, 48245), (189, 48305), (197, 48344), (211, 48389), (214, 48395), (219, 48413), (220, 48416), (226, 48437), (249, 48512), (258, 48575), (273, 48641), (275, 48650), (279, 48668), (281, 48674), (299, 48761), (303, 48773),

Gene: Moostard_36 Start: 31900, Stop: 33192, Start Num: 39
Candidate Starts for Moostard_36:
(11, 31816), (18, 31849), (Start: 39 @31900 has 77 MA's), (Start: 53 @31975 has 2 MA's), (55, 31990), (104, 32287), (128, 32383), (136, 32416), (157, 32542), (161, 32554), (173, 32623), (226, 32830), (243, 32872), (249, 32902), (257, 32962), (268, 33007), (269, 33010), (272, 33040), (283, 33085), (287, 33103), (291, 33127), (293, 33139),

Gene: MortyNRick_43 Start: 32503, Stop: 33714, Start Num: 42
Candidate Starts for MortyNRick_43:
(25, 32461), (Start: 42 @32503 has 163 MA's), (Start: 53 @32566 has 2 MA's), (54, 32572), (68, 32656), (71, 32668), (80, 32719), (82, 32731), (104, 32863), (118, 32920), (120, 32923), (125, 32935), (127, 32947), (135, 32986), (142, 33031), (146, 33049), (161, 33109), (183, 33241), (200, 33313), (216, 33346), (217, 33352), (218, 33355), (221, 33364), (247, 33418), (249, 33421), (260, 33490), (262, 33502), (263, 33505), (265, 33514), (276, 33580), (281, 33598),

Gene: MsGreen_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for MsGreen_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083),

(287, 33101), (291, 33125), (293, 33137),

Gene: MulchExplorer_44 Start: 32952, Stop: 34241, Start Num: 42
Candidate Starts for MulchExplorer_44:
(Start: 42 @32952 has 163 MA's), (54, 33018), (60, 33072), (65, 33099), (79, 33168), (80, 33180), (81, 33183), (103, 33318), (125, 33390), (128, 33414), (131, 33429), (134, 33438), (143, 33492), (152, 33525), (156, 33546), (175, 33657), (185, 33732), (211, 33843), (213, 33846), (226, 33891), (227, 33894), (230, 33903), (232, 33909), (236, 33915), (247, 33948), (249, 33951), (255, 33999), (258, 34011), (262, 34029), (267, 34050), (272, 34086), (276, 34104), (281, 34122), (283, 34131), (286, 34146), (296, 34200),

Gene: MulchSalad_35 Start: 27871, Stop: 29142, Start Num: 43
Candidate Starts for MulchSalad_35:
(Start: 43 @27871 has 13 MA's), (54, 27934), (60, 27988), (62, 27997), (65, 28015), (79, 28084), (80, 28096), (103, 28234), (131, 28345), (143, 28408), (156, 28462), (173, 28555), (211, 28756), (225, 28798), (226, 28804), (230, 28816), (236, 28828), (240, 28837), (243, 28843), (247, 28861), (249, 28864), (258, 28924), (262, 28942), (267, 28963), (276, 29017), (281, 29035), (286, 29059), (294, 29104), (296, 29113), (303, 29134),

Gene: Mwanjiwa_48 Start: 32986, Stop: 34287, Start Num: 42
Candidate Starts for Mwanjiwa_48:
(Start: 42 @32986 has 163 MA's), (54, 33052), (60, 33106), (65, 33133), (79, 33202), (80, 33214), (103, 33352), (128, 33448), (131, 33463), (134, 33472), (143, 33526), (152, 33559), (156, 33580), (175, 33691), (185, 33766), (211, 33877), (213, 33880), (225, 33919), (226, 33925), (227, 33928), (230, 33937), (232, 33943), (247, 33982), (249, 33985), (255, 34033), (258, 34045), (262, 34063), (267, 34084), (272, 34120), (276, 34138), (281, 34156), (286, 34180), (296, 34234),

Gene: Nairb_33 Start: 27804, Stop: 29102, Start Num: 23
Candidate Starts for Nairb_33:
(Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: Nergal_38 Start: 30980, Stop: 32254, Start Num: 42
Candidate Starts for Nergal_38:
(Start: 42 @30980 has 163 MA's), (57, 31061), (61, 31100), (91, 31271), (103, 31337), (104, 31346), (107, 31358), (120, 31403), (125, 31415), (127, 31427), (131, 31454), (134, 31463), (135, 31466), (154, 31577), (167, 31655), (172, 31673), (202, 31799), (208, 31826), (222, 31871), (225, 31880), (227, 31889), (249, 31955), (258, 32018), (262, 32036), (267, 32069), (286, 32165), (287, 32168), (303, 32240),

Gene: Nette_34 Start: 27346, Stop: 28593, Start Num: 43
Candidate Starts for Nette_34:
(Start: 23 @27295 has 4 MA's), (Start: 26 @27304 has 1 MA's), (Start: 36 @27328 has 4 MA's), (Start: 43 @27346 has 13 MA's), (Start: 53 @27406 has 2 MA's), (57, 27427), (79, 27559), (84, 27592), (88, 27607), (104, 27715), (117, 27760), (118, 27763), (127, 27790), (128, 27802), (131, 27817), (161, 27976), (170, 28039), (211, 28201), (234, 28270), (238, 28279), (249, 28324), (252, 28354), (258, 28387), (259, 28390), (279, 28480), (281, 28486), (283, 28495), (302, 28582),

Gene: Netyap_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Netyap_38:

(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: Nichirin_45 Start: 33173, Stop: 34483, Start Num: 42
Candidate Starts for Nichirin_45:
(Start: 42 @33173 has 163 MA's), (54, 33239), (60, 33293), (65, 33320), (79, 33389), (80, 33401), (103, 33539), (128, 33635), (131, 33650), (134, 33659), (143, 33713), (152, 33746), (156, 33767), (175, 33878), (185, 33953), (211, 34064), (213, 34067), (225, 34106), (226, 34112), (227, 34115), (230, 34124), (232, 34130), (236, 34136), (247, 34169), (249, 34172), (255, 34220), (258, 34232), (262, 34250), (267, 34271), (272, 34307), (276, 34325), (281, 34343), (283, 34352), (286, 34367), (296, 34421),

Gene: Nicholas_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for Nicholas_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: Nicholasp3_38 Start: 31657, Stop: 32964, Start Num: 39
Candidate Starts for Nicholasp3_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (55, 31744), (63, 31807), (71, 31843), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (173, 32392), (175, 32410), (177, 32419), (226, 32602), (238, 32632), (247, 32671), (249, 32674), (257, 32734), (259, 32740), (265, 32764), (268, 32779), (269, 32782), (279, 32842), (283, 32857), (287, 32875), (292, 32905), (293, 32911),

Gene: NikkiHotWheels_37 Start: 27277, Stop: 25919, Start Num: 34
Candidate Starts for NikkiHotWheels_37:
(Start: 34 @27277 has 2 MA's), (60, 27133), (80, 27025), (82, 27013), (94, 26941), (97, 26926), (106, 26866), (126, 26797), (127, 26791), (135, 26752), (149, 26683), (262, 26188), (275, 26131), (276, 26125), (279, 26113), (280, 26110), (281, 26107), (282, 26101), (283, 26098), (285, 26086), (288, 26077), (293, 26044), (294, 26038), (311, 25957), (312, 25951),

Gene: Nimbo_40 Start: 31567, Stop: 32868, Start Num: 42
Candidate Starts for Nimbo_40:
(Start: 42 @31567 has 163 MA's), (54, 31633), (60, 31687), (62, 31696), (65, 31714), (79, 31783), (80, 31795), (103, 31933), (125, 32005), (128, 32029), (131, 32044), (134, 32053), (143, 32107), (152, 32140), (156, 32161), (175, 32272), (185, 32347), (211, 32458), (213, 32461), (225, 32500), (226, 32506), (227, 32509), (230, 32518), (232, 32524), (236, 32530), (247, 32563), (249, 32566), (255, 32614), (258, 32626), (262, 32644), (267, 32665), (272, 32701), (276, 32719), (281, 32737), (283, 32746), (286, 32761), (296, 32815),

Gene: Nitzel_39 Start: 31678, Stop: 32988, Start Num: 42
Candidate Starts for Nitzel_39:
(Start: 42 @31678 has 163 MA's), (54, 31744), (60, 31798), (65, 31825), (79, 31894), (80, 31906), (103, 32044), (128, 32140), (131, 32155), (134, 32164), (143, 32218), (152, 32251), (156, 32272), (175, 32383), (185, 32458), (211, 32569), (213, 32572), (225, 32611), (226, 32617), (227, 32620), (230, 32629), (232, 32635), (236, 32641), (247, 32674), (249, 32677), (255, 32725), (258, 32737), (262, 32755), (267, 32776), (272, 32812), (276, 32830), (281, 32848), (283, 32857), (286, 32872),

(296, 32926),

Gene: Nivrat_42 Start: 31868, Stop: 33169, Start Num: 42
Candidate Starts for Nivrat_42:
(Start: 42 @31868 has 163 MA's), (54, 31934), (60, 31988), (62, 31997), (65, 32015), (79, 32084), (80, 32096), (103, 32234), (125, 32306), (128, 32330), (131, 32345), (134, 32354), (143, 32408), (152, 32441), (156, 32462), (175, 32573), (185, 32648), (211, 32759), (213, 32762), (225, 32801), (226, 32807), (227, 32810), (230, 32819), (232, 32825), (236, 32831), (247, 32864), (249, 32867), (255, 32915), (258, 32927), (262, 32945), (267, 32966), (272, 33002), (276, 33020), (281, 33038), (283, 33047), (286, 33062), (296, 33116),

Gene: Nolwazi_47 Start: 33551, Stop: 34786, Start Num: 42
Candidate Starts for Nolwazi_47:
(Start: 19 @33500 has 1 MA's), (Start: 27 @33521 has 16 MA's), (30, 33533), (Start: 42 @33551 has 163 MA's), (Start: 53 @33608 has 2 MA's), (Start: 59 @33662 has 2 MA's), (63, 33686), (77, 33755), (88, 33806), (103, 33905), (104, 33914), (107, 33926), (128, 34007), (135, 34034), (175, 34256), (177, 34265), (178, 34274), (192, 34325), (208, 34388), (230, 34460), (234, 34469), (249, 34517), (267, 34607), (279, 34673), (280, 34676), (286, 34703), (288, 34709), (291, 34730), (293, 34742),

Gene: NormanBulbieJr_44 Start: 33209, Stop: 34510, Start Num: 42
Candidate Starts for NormanBulbieJr_44:
(Start: 42 @33209 has 163 MA's), (54, 33275), (60, 33329), (62, 33338), (65, 33356), (79, 33425), (80, 33437), (103, 33575), (125, 33647), (128, 33671), (131, 33686), (134, 33695), (143, 33749), (152, 33782), (156, 33803), (175, 33914), (185, 33989), (211, 34100), (213, 34103), (225, 34142), (226, 34148), (227, 34151), (230, 34160), (232, 34166), (236, 34172), (247, 34205), (249, 34208), (255, 34256), (258, 34268), (262, 34286), (267, 34307), (272, 34343), (276, 34361), (281, 34379), (283, 34388), (286, 34403), (296, 34457),

Gene: November_40 Start: 32609, Stop: 33988, Start Num: 35
Candidate Starts for November_40:
(Start: 35 @32609 has 3 MA's), (Start: 53 @32687 has 2 MA's), (55, 32702), (60, 32744), (77, 32837), (84, 32876), (88, 32891), (103, 32990), (104, 32999), (127, 33080), (174, 33335), (175, 33347), (177, 33356), (192, 33431), (207, 33491), (214, 33512), (222, 33539), (224, 33545), (226, 33554), (249, 33629), (262, 33710), (316, 33962),

Gene: Ochi17_43 Start: 32595, Stop: 33905, Start Num: 42
Candidate Starts for Ochi17_43:
(Start: 42 @32595 has 163 MA's), (54, 32661), (60, 32715), (65, 32742), (79, 32811), (80, 32823), (103, 32961), (128, 33057), (131, 33072), (134, 33081), (143, 33135), (152, 33168), (156, 33189), (175, 33300), (185, 33375), (211, 33486), (213, 33489), (225, 33528), (226, 33534), (227, 33537), (230, 33546), (232, 33552), (236, 33558), (247, 33591), (249, 33594), (255, 33642), (258, 33654), (262, 33672), (267, 33693), (272, 33729), (276, 33747), (281, 33765), (283, 33774), (286, 33789), (296, 33843),

Gene: OfUltron_45 Start: 33144, Stop: 34454, Start Num: 42
Candidate Starts for OfUltron_45:
(Start: 42 @33144 has 163 MA's), (54, 33210), (60, 33264), (65, 33291), (79, 33360), (80, 33372), (103, 33510), (128, 33606), (131, 33621), (134, 33630), (143, 33684), (152, 33717), (156, 33738), (175, 33849), (185, 33924), (211, 34035), (213, 34038), (225, 34077), (226, 34083), (227, 34086), (230, 34095), (232, 34101), (236, 34107), (247, 34140), (249, 34143), (255, 34191), (258, 34203), (262, 34221), (267, 34242), (272, 34278), (276, 34296), (281, 34314), (283, 34323), (286, 34338), (296, 34392),

Gene: Ogopogo_44 Start: 31526, Stop: 32827, Start Num: 42
Candidate Starts for Ogopogo_44:
(Start: 42 @31526 has 163 MA's), (54, 31592), (60, 31646), (62, 31655), (65, 31673), (79, 31742), (80, 31754), (103, 31892), (125, 31964), (128, 31988), (131, 32003), (134, 32012), (143, 32066), (152, 32099), (156, 32120), (175, 32231), (185, 32306), (211, 32417), (213, 32420), (225, 32459), (226, 32465), (227, 32468), (230, 32477), (232, 32483), (236, 32489), (247, 32522), (249, 32525), (255, 32573), (258, 32585), (262, 32603), (267, 32624), (272, 32660), (276, 32678), (281, 32696), (283, 32705), (286, 32720), (296, 32774),

Gene: OhShagHennessy_35 Start: 30257, Stop: 31564, Start Num: 39
Candidate Starts for OhShagHennessy_35:
(Start: 39 @30257 has 77 MA's), (55, 30347), (57, 30353), (71, 30446), (103, 30635), (104, 30644), (107, 30656), (125, 30731), (127, 30743), (128, 30755), (129, 30758), (132, 30773), (138, 30800), (161, 30926), (172, 30992), (175, 31013), (225, 31196), (226, 31202), (238, 31232), (249, 31274), (269, 31382), (272, 31412), (283, 31457), (287, 31475), (291, 31499), (293, 31511), (304, 31550),

Gene: Oksu_45 Start: 32988, Stop: 34289, Start Num: 42
Candidate Starts for Oksu_45:
(Start: 42 @32988 has 163 MA's), (54, 33054), (60, 33108), (65, 33135), (79, 33204), (80, 33216), (103, 33354), (128, 33450), (131, 33465), (134, 33474), (143, 33528), (152, 33561), (156, 33582), (175, 33693), (185, 33768), (211, 33879), (213, 33882), (225, 33921), (226, 33927), (227, 33930), (230, 33939), (232, 33945), (236, 33951), (247, 33984), (249, 33987), (255, 34035), (258, 34047), (262, 34065), (267, 34086), (272, 34122), (276, 34140), (281, 34158), (283, 34167), (286, 34182), (296, 34236),

Gene: OldBen_41 Start: 31598, Stop: 32899, Start Num: 42
Candidate Starts for OldBen_41:
(Start: 42 @31598 has 163 MA's), (54, 31664), (60, 31718), (62, 31727), (65, 31745), (79, 31814), (80, 31826), (103, 31964), (125, 32036), (128, 32060), (131, 32075), (134, 32084), (143, 32138), (152, 32171), (156, 32192), (175, 32303), (185, 32378), (211, 32489), (213, 32492), (225, 32531), (226, 32537), (227, 32540), (230, 32549), (232, 32555), (236, 32561), (247, 32594), (249, 32597), (255, 32645), (258, 32657), (262, 32675), (267, 32696), (272, 32732), (276, 32750), (281, 32768), (283, 32777), (286, 32792), (296, 32846),

Gene: OlympiaSaint_42 Start: 32045, Stop: 33346, Start Num: 42
Candidate Starts for OlympiaSaint_42:
(Start: 42 @32045 has 163 MA's), (54, 32111), (60, 32165), (65, 32192), (79, 32261), (80, 32273), (103, 32411), (128, 32507), (131, 32522), (134, 32531), (143, 32585), (152, 32618), (156, 32639), (175, 32750), (185, 32825), (211, 32936), (213, 32939), (225, 32978), (226, 32984), (227, 32987), (230, 32996), (232, 33002), (236, 33008), (247, 33041), (249, 33044), (255, 33092), (258, 33104), (262, 33122), (267, 33143), (272, 33179), (276, 33197), (281, 33215), (283, 33224), (286, 33239), (296, 33293),

Gene: OmniCritical_44 Start: 33567, Stop: 34691, Start Num: 59
Candidate Starts for OmniCritical_44:
(Start: 19 @33405 has 1 MA's), (Start: 27 @33426 has 16 MA's), (30, 33438), (Start: 42 @33456 has 163 MA's), (Start: 53 @33513 has 2 MA's), (Start: 59 @33567 has 2 MA's), (63, 33591), (77, 33660), (88, 33711), (103, 33810), (104, 33819), (107, 33831), (128, 33912), (135, 33939), (175, 34161), (177, 34170), (178, 34179), (192, 34230), (208, 34293), (230, 34365), (234, 34374), (249, 34422), (267, 34512), (279, 34578), (280, 34581), (286, 34608), (288, 34614), (291, 34635), (293, 34647),

Gene: OneUp_74 Start: 49149, Stop: 50507, Start Num: 41
Candidate Starts for OneUp_74:

(Start: 41 @49149 has 1 MA's), (54, 49230), (89, 49443), (92, 49464), (104, 49536), (109, 49557), (121, 49629), (135, 49704), (162, 49836), (167, 49875), (176, 49920), (189, 49977), (190, 49983), (220, 50097), (226, 50118), (244, 50166), (273, 50322), (275, 50331), (279, 50349), (281, 50355), (291, 50406), (296, 50433), (305, 50460),

Gene: OverPar_39 Start: 31687, Stop: 32994, Start Num: 39
Candidate Starts for OverPar_39:
(Start: 19 @31642 has 1 MA's), (Start: 39 @31687 has 77 MA's), (Start: 53 @31759 has 2 MA's), (55, 31774), (63, 31837), (71, 31873), (104, 32071), (131, 32197), (161, 32353), (166, 32386), (173, 32422), (175, 32440), (177, 32449), (226, 32632), (238, 32662), (247, 32701), (249, 32704), (257, 32764), (259, 32770), (265, 32794), (268, 32809), (269, 32812), (279, 32872), (283, 32887), (287, 32905), (292, 32935), (293, 32941),

Gene: OwlsT2W_41 Start: 32020, Stop: 33321, Start Num: 42
Candidate Starts for OwlsT2W_41:
(Start: 42 @32020 has 163 MA's), (54, 32086), (60, 32140), (65, 32167), (79, 32236), (80, 32248), (103, 32386), (128, 32482), (131, 32497), (134, 32506), (143, 32560), (152, 32593), (156, 32614), (175, 32725), (185, 32800), (211, 32911), (213, 32914), (225, 32953), (226, 32959), (227, 32962), (230, 32971), (232, 32977), (236, 32983), (247, 33016), (249, 33019), (255, 33067), (258, 33079), (262, 33097), (267, 33118), (272, 33154), (276, 33172), (281, 33190), (283, 33199), (286, 33214), (296, 33268),

Gene: PHappiness_41 Start: 31540, Stop: 32841, Start Num: 42
Candidate Starts for PHappiness_41:
(Start: 42 @31540 has 163 MA's), (54, 31606), (60, 31660), (62, 31669), (65, 31687), (79, 31756), (80, 31768), (103, 31906), (125, 31978), (128, 32002), (131, 32017), (134, 32026), (143, 32080), (152, 32113), (156, 32134), (175, 32245), (185, 32320), (211, 32431), (213, 32434), (225, 32473), (226, 32479), (227, 32482), (230, 32491), (232, 32497), (236, 32503), (247, 32536), (249, 32539), (255, 32587), (258, 32599), (262, 32617), (267, 32638), (272, 32674), (276, 32692), (281, 32710), (283, 32719), (286, 32734), (296, 32788),

Gene: PMC_38 Start: 31422, Stop: 32711, Start Num: 42
Candidate Starts for PMC_38:
(Start: 42 @31422 has 163 MA's), (54, 31488), (60, 31542), (62, 31551), (65, 31569), (79, 31638), (80, 31650), (103, 31788), (125, 31860), (128, 31884), (131, 31899), (134, 31908), (143, 31962), (152, 31995), (156, 32016), (175, 32127), (185, 32202), (211, 32313), (213, 32316), (225, 32355), (226, 32361), (227, 32364), (230, 32373), (232, 32379), (236, 32385), (247, 32418), (249, 32421), (255, 32469), (258, 32481), (262, 32499), (267, 32520), (272, 32556), (276, 32574), (281, 32592), (283, 32601), (286, 32616), (296, 32670),

Gene: PYPDinur_35 Start: 30396, Stop: 31703, Start Num: 39
Candidate Starts for PYPDinur_35:
(Start: 27 @30375 has 16 MA's), (Start: 39 @30396 has 77 MA's), (Start: 53 @30471 has 2 MA's), (55, 30486), (63, 30549), (66, 30558), (83, 30654), (92, 30708), (103, 30771), (104, 30780), (124, 30861), (133, 30912), (135, 30918), (140, 30954), (161, 31062), (173, 31131), (175, 31149), (177, 31158), (184, 31200), (198, 31245), (224, 31332), (226, 31341), (243, 31383), (249, 31413), (257, 31473), (259, 31479), (262, 31494), (272, 31551), (283, 31596), (287, 31614), (292, 31644),

Gene: Pacc40_40 Start: 31614, Stop: 32915, Start Num: 42
Candidate Starts for Pacc40_40:
(Start: 42 @31614 has 163 MA's), (54, 31680), (60, 31734), (62, 31743), (65, 31761), (79, 31830), (80, 31842), (103, 31980), (125, 32052), (128, 32076), (131, 32091), (134, 32100), (143, 32154), (152, 32187), (156, 32208), (175, 32319), (185, 32394), (211, 32505), (213, 32508), (225, 32547), (226,

32553), (227, 32556), (230, 32565), (232, 32571), (236, 32577), (247, 32610), (249, 32613), (255, 32661), (258, 32673), (262, 32691), (267, 32712), (272, 32748), (276, 32766), (281, 32784), (283, 32793), (286, 32808), (296, 32862),

Gene: Patt_42 Start: 32652, Stop: 33917, Start Num: 27
Candidate Starts for Patt_42:
(Start: 27 @32652 has 16 MA's), (30, 32664), (Start: 42 @32682 has 163 MA's), (Start: 53 @32739 has 2 MA's), (Start: 59 @32793 has 2 MA's), (71, 32853), (77, 32886), (88, 32937), (103, 33036), (104, 33045), (107, 33057), (129, 33141), (135, 33165), (175, 33387), (177, 33396), (178, 33405), (192, 33456), (208, 33519), (234, 33600), (249, 33648), (257, 33708), (259, 33714), (267, 33738), (280, 33807), (286, 33834), (288, 33840), (293, 33873),

Gene: PeggyLeg03_37 Start: 27992, Stop: 26619, Start Num: 32
Candidate Starts for PeggyLeg03_37:
(17, 28028), (Start: 32 @27992 has 2 MA's), (74, 27776), (80, 27743), (82, 27731), (86, 27713), (94, 27641), (106, 27566), (113, 27536), (126, 27497), (135, 27452), (149, 27383), (174, 27260), (212, 27068), (248, 26969), (264, 26879), (266, 26873), (275, 26831), (276, 26825), (279, 26813), (280, 26810), (281, 26807), (282, 26801), (283, 26798), (288, 26777), (293, 26744), (310, 26660), (312, 26651),

Gene: Peridot_44 Start: 33249, Stop: 34538, Start Num: 42
Candidate Starts for Peridot_44:
(Start: 42 @33249 has 163 MA's), (54, 33315), (60, 33369), (65, 33396), (79, 33465), (80, 33477), (81, 33480), (103, 33615), (125, 33687), (128, 33711), (131, 33726), (134, 33735), (143, 33789), (152, 33822), (156, 33843), (175, 33954), (185, 34029), (211, 34140), (213, 34143), (226, 34188), (227, 34191), (230, 34200), (232, 34206), (236, 34212), (247, 34245), (249, 34248), (255, 34296), (258, 34308), (262, 34326), (267, 34347), (272, 34383), (276, 34401), (281, 34419), (283, 34428), (286, 34443), (296, 34497),

Gene: PhaoMing_33 Start: 29127, Stop: 30338, Start Num: 42
Candidate Starts for PhaoMing_33:
(Start: 42 @29127 has 163 MA's), (Start: 53 @29190 has 2 MA's), (54, 29196), (68, 29280), (104, 29487), (108, 29499), (118, 29544), (125, 29559), (135, 29610), (169, 29793), (183, 29865), (200, 29937), (216, 29970), (218, 29979), (221, 29988), (249, 30045), (260, 30114), (262, 30126), (263, 30129), (265, 30138), (276, 30204), (281, 30222), (288, 30252),

Gene: Pharb_40 Start: 31402, Stop: 32679, Start Num: 42
Candidate Starts for Pharb_40:
(24, 31357), (Start: 42 @31402 has 163 MA's), (Start: 43 @31405 has 13 MA's), (54, 31468), (57, 31483), (61, 31522), (73, 31591), (91, 31702), (95, 31720), (99, 31738), (104, 31777), (107, 31789), (118, 31831), (127, 31858), (129, 31873), (135, 31897), (167, 32083), (175, 32122), (177, 32131), (208, 32254), (225, 32308), (227, 32317), (249, 32383), (267, 32497), (303, 32668),

Gene: Phasih_41 Start: 31965, Stop: 33266, Start Num: 42
Candidate Starts for Phasih_41:
(Start: 42 @31965 has 163 MA's), (54, 32031), (60, 32085), (62, 32094), (65, 32112), (79, 32181), (80, 32193), (103, 32331), (128, 32427), (131, 32442), (134, 32451), (143, 32505), (152, 32538), (156, 32559), (175, 32670), (185, 32745), (211, 32856), (213, 32859), (225, 32898), (226, 32904), (227, 32907), (230, 32916), (232, 32922), (236, 32928), (247, 32961), (249, 32964), (255, 33012), (258, 33024), (262, 33042), (267, 33063), (272, 33099), (276, 33117), (281, 33135), (283, 33144), (286, 33159), (296, 33213),

Gene: Phatniss_41 Start: 31939, Stop: 33228, Start Num: 42

Candidate Starts for Phatniss_41:
(Start: 42 @31939 has 163 MA's), (54, 32005), (60, 32059), (62, 32068), (65, 32086), (79, 32155), (80, 32167), (103, 32305), (125, 32377), (128, 32401), (131, 32416), (134, 32425), (143, 32479), (152, 32512), (156, 32533), (161, 32554), (175, 32644), (185, 32719), (211, 32830), (213, 32833), (225, 32872), (226, 32878), (227, 32881), (230, 32890), (232, 32896), (236, 32902), (247, 32935), (249, 32938), (255, 32986), (258, 32998), (262, 33016), (267, 33037), (272, 33073), (276, 33091), (281, 33109), (283, 33118), (286, 33133), (296, 33187),

Gene: PhelpsODU_42 Start: 31819, Stop: 33198, Start Num: 38
Candidate Starts for PhelpsODU_42:
(Start: 38 @31819 has 22 MA's), (Start: 53 @31894 has 2 MA's), (55, 31909), (60, 31951), (74, 32026), (77, 32044), (79, 32050), (84, 32083), (88, 32098), (103, 32197), (104, 32206), (105, 32209), (161, 32464), (166, 32497), (174, 32539), (175, 32551), (177, 32560), (192, 32635), (207, 32695), (214, 32716), (222, 32743), (224, 32749), (226, 32758), (255, 32884), (258, 32896), (262, 32914), (279, 33004), (314, 33163),

Gene: PhlipPhlop_42 Start: 33053, Stop: 34342, Start Num: 42
Candidate Starts for PhlipPhlop_42:
(Start: 42 @33053 has 163 MA's), (54, 33119), (60, 33173), (65, 33200), (79, 33269), (80, 33281), (103, 33419), (125, 33491), (128, 33515), (131, 33530), (134, 33539), (143, 33593), (152, 33626), (156, 33647), (175, 33758), (185, 33833), (211, 33944), (213, 33947), (225, 33986), (226, 33992), (227, 33995), (230, 34004), (232, 34010), (236, 34016), (247, 34049), (249, 34052), (255, 34100), (258, 34112), (262, 34130), (267, 34151), (272, 34187), (276, 34205), (281, 34223), (283, 34232), (286, 34247), (296, 34301),

Gene: Phrank_43 Start: 31779, Stop: 33158, Start Num: 38
Candidate Starts for Phrank_43:
(21, 31749), (Start: 38 @31779 has 22 MA's), (Start: 53 @31854 has 2 MA's), (60, 31911), (77, 32004), (88, 32058), (103, 32157), (104, 32166), (105, 32169), (166, 32457), (174, 32499), (175, 32511), (177, 32520), (192, 32595), (207, 32655), (214, 32676), (222, 32703), (224, 32709), (226, 32718), (255, 32844), (258, 32856), (262, 32874), (279, 32964), (314, 33123),

Gene: Piper2020_41 Start: 31582, Stop: 32853, Start Num: 43
Candidate Starts for Piper2020_41:
(Start: 43 @31582 has 13 MA's), (54, 31645), (60, 31699), (62, 31708), (65, 31726), (79, 31795), (80, 31807), (103, 31945), (131, 32056), (143, 32119), (156, 32173), (173, 32266), (211, 32467), (225, 32509), (226, 32515), (230, 32527), (236, 32539), (240, 32548), (243, 32554), (247, 32572), (249, 32575), (258, 32635), (262, 32653), (267, 32674), (276, 32728), (281, 32746), (286, 32770), (294, 32815), (296, 32824), (303, 32845),

Gene: Pixie_42 Start: 32081, Stop: 33361, Start Num: 42
Candidate Starts for Pixie_42:
(Start: 42 @32081 has 163 MA's), (57, 32162), (61, 32201), (73, 32270), (91, 32381), (95, 32399), (99, 32417), (103, 32447), (104, 32456), (107, 32468), (118, 32510), (129, 32552), (135, 32576), (153, 32675), (164, 32738), (165, 32741), (175, 32801), (177, 32810), (208, 32933), (225, 32987), (227, 32996), (247, 33059), (249, 33062), (258, 33125), (267, 33176), (273, 33215), (303, 33347),

Gene: Plumbus_43 Start: 31678, Stop: 32967, Start Num: 42
Candidate Starts for Plumbus_43:
(Start: 42 @31678 has 163 MA's), (54, 31744), (60, 31798), (65, 31825), (79, 31894), (80, 31906), (103, 32044), (125, 32116), (128, 32140), (131, 32155), (134, 32164), (143, 32218), (152, 32251), (156, 32272), (175, 32383), (185, 32458), (211, 32569), (213, 32572), (225, 32611), (226, 32617), (227, 32620), (230, 32629), (232, 32635), (236, 32641), (247, 32674), (249, 32677), (255, 32725),

(258, 32737), (262, 32755), (267, 32776), (272, 32812), (276, 32830), (281, 32848), (286, 32872), (296, 32926),

Gene: Poenanya_43 Start: 32942, Stop: 34243, Start Num: 42
Candidate Starts for Poenanya_43:
(Start: 42 @32942 has 163 MA's), (54, 33008), (60, 33062), (62, 33071), (65, 33089), (79, 33158), (80, 33170), (103, 33308), (125, 33380), (128, 33404), (131, 33419), (134, 33428), (143, 33482), (152, 33515), (156, 33536), (175, 33647), (185, 33722), (211, 33833), (213, 33836), (225, 33875), (226, 33881), (227, 33884), (230, 33893), (232, 33899), (236, 33905), (247, 33938), (249, 33941), (255, 33989), (258, 34001), (262, 34019), (267, 34040), (272, 34076), (276, 34094), (281, 34112), (283, 34121), (286, 34136), (296, 34190),

Gene: Polka14_42 Start: 32217, Stop: 33518, Start Num: 42
Candidate Starts for Polka14_42:
(Start: 42 @32217 has 163 MA's), (54, 32283), (60, 32337), (62, 32346), (65, 32364), (79, 32433), (80, 32445), (103, 32583), (125, 32655), (128, 32679), (131, 32694), (134, 32703), (143, 32757), (152, 32790), (156, 32811), (175, 32922), (185, 32997), (211, 33108), (213, 33111), (225, 33150), (226, 33156), (227, 33159), (230, 33168), (232, 33174), (236, 33180), (247, 33213), (249, 33216), (255, 33264), (258, 33276), (262, 33294), (267, 33315), (272, 33351), (276, 33369), (281, 33387), (283, 33396), (286, 33411), (296, 33465),

Gene: Pollywog_42 Start: 32138, Stop: 33427, Start Num: 42
Candidate Starts for Pollywog_42:
(Start: 42 @32138 has 163 MA's), (54, 32204), (60, 32258), (65, 32285), (79, 32354), (80, 32366), (103, 32504), (125, 32576), (128, 32600), (131, 32615), (134, 32624), (143, 32678), (152, 32711), (156, 32732), (175, 32843), (185, 32918), (211, 33029), (213, 33032), (225, 33071), (226, 33077), (227, 33080), (230, 33089), (232, 33095), (236, 33101), (247, 33134), (249, 33137), (255, 33185), (258, 33197), (262, 33215), (267, 33236), (272, 33272), (276, 33290), (281, 33308), (283, 33317), (286, 33332), (296, 33386),

Gene: Poochiewood_35 Start: 30285, Stop: 31592, Start Num: 39
Candidate Starts for Poochiewood_35:
(Start: 39 @30285 has 77 MA's), (55, 30375), (57, 30381), (71, 30474), (103, 30663), (104, 30672), (107, 30684), (125, 30759), (127, 30771), (128, 30783), (129, 30786), (132, 30801), (138, 30828), (161, 30954), (172, 31020), (175, 31041), (225, 31224), (226, 31230), (238, 31260), (249, 31302), (269, 31410), (272, 31440), (283, 31485), (287, 31503), (291, 31527), (293, 31539),

Gene: PopTart_39 Start: 31428, Stop: 32729, Start Num: 42
Candidate Starts for PopTart_39:
(Start: 42 @31428 has 163 MA's), (54, 31494), (60, 31548), (62, 31557), (65, 31575), (79, 31644), (80, 31656), (103, 31794), (128, 31890), (131, 31905), (134, 31914), (143, 31968), (152, 32001), (156, 32022), (175, 32133), (185, 32208), (211, 32319), (213, 32322), (225, 32361), (226, 32367), (227, 32370), (230, 32379), (232, 32385), (236, 32391), (247, 32424), (249, 32427), (255, 32475), (258, 32487), (262, 32505), (267, 32526), (272, 32562), (276, 32580), (281, 32598), (283, 32607), (286, 32622), (296, 32676),

Gene: Priscilla_44 Start: 33308, Stop: 34609, Start Num: 42
Candidate Starts for Priscilla_44:
(Start: 42 @33308 has 163 MA's), (54, 33374), (60, 33428), (62, 33437), (65, 33455), (79, 33524), (80, 33536), (103, 33674), (125, 33746), (128, 33770), (131, 33785), (134, 33794), (143, 33848), (152, 33881), (156, 33902), (175, 34013), (185, 34088), (211, 34199), (213, 34202), (225, 34241), (226, 34247), (227, 34250), (230, 34259), (232, 34265), (236, 34271), (247, 34304), (249, 34307), (255, 34355), (258, 34367), (262, 34385), (267, 34406), (272, 34442), (276, 34460), (281, 34478), (283,

34487), (286, 34502), (296, 34556),

Gene: Pucara_34 Start: 27597, Stop: 26224, Start Num: 32
Candidate Starts for Pucara_34:
(17, 27633), (Start: 32 @27597 has 2 MA's), (74, 27381), (80, 27348), (82, 27336), (86, 27318), (94, 27246), (106, 27171), (113, 27141), (126, 27102), (135, 27057), (141, 27018), (149, 26988), (174, 26865), (212, 26673), (248, 26574), (264, 26484), (266, 26478), (275, 26436), (276, 26430), (279, 26418), (280, 26415), (281, 26412), (282, 26406), (283, 26403), (288, 26382), (293, 26349), (310, 26265), (312, 26256),

Gene: Qhanda_47 Start: 33540, Stop: 34805, Start Num: 27
Candidate Starts for Qhanda_47:
(Start: 19 @33519 has 1 MA's), (Start: 27 @33540 has 16 MA's), (30, 33552), (Start: 42 @33570 has 163 MA's), (Start: 53 @33627 has 2 MA's), (Start: 59 @33681 has 2 MA's), (63, 33705), (77, 33774), (88, 33825), (103, 33924), (104, 33933), (107, 33945), (128, 34026), (135, 34053), (175, 34275), (177, 34284), (178, 34293), (192, 34344), (208, 34407), (230, 34479), (234, 34488), (249, 34536), (267, 34626), (279, 34692), (280, 34695), (286, 34722), (288, 34728), (291, 34749), (293, 34761),

Gene: Quby_35 Start: 30289, Stop: 31596, Start Num: 39
Candidate Starts for Quby_35:
(Start: 27 @30268 has 16 MA's), (Start: 39 @30289 has 77 MA's), (55, 30379), (63, 30442), (66, 30451), (83, 30547), (92, 30601), (103, 30664), (104, 30673), (124, 30754), (133, 30805), (135, 30811), (138, 30829), (140, 30847), (161, 30955), (173, 31024), (175, 31042), (177, 31051), (184, 31093), (198, 31138), (224, 31225), (226, 31234), (243, 31276), (249, 31306), (257, 31366), (259, 31372), (262, 31387), (272, 31444), (283, 31489), (287, 31507), (292, 31537),

Gene: QuickMath_43 Start: 33176, Stop: 34465, Start Num: 42
Candidate Starts for QuickMath_43:
(Start: 42 @33176 has 163 MA's), (54, 33242), (60, 33296), (65, 33323), (79, 33392), (80, 33404), (81, 33407), (103, 33542), (125, 33614), (128, 33638), (131, 33653), (134, 33662), (143, 33716), (152, 33749), (156, 33770), (175, 33881), (185, 33956), (211, 34067), (213, 34070), (226, 34115), (227, 34118), (230, 34127), (232, 34133), (236, 34139), (247, 34172), (249, 34175), (255, 34223), (258, 34235), (262, 34253), (267, 34274), (272, 34310), (276, 34328), (281, 34346), (283, 34355), (286, 34370), (296, 34424),

Gene: Quico_50 Start: 32828, Stop: 34129, Start Num: 42
Candidate Starts for Quico_50:
(Start: 42 @32828 has 163 MA's), (54, 32894), (60, 32948), (62, 32957), (65, 32975), (80, 33056), (103, 33194), (125, 33266), (128, 33290), (131, 33305), (134, 33314), (143, 33368), (152, 33401), (156, 33422), (175, 33533), (185, 33608), (211, 33719), (213, 33722), (226, 33767), (227, 33770), (232, 33785), (236, 33791), (247, 33824), (249, 33827), (255, 33875), (258, 33887), (262, 33905), (267, 33926), (272, 33962), (276, 33980), (281, 33998), (283, 34007), (286, 34022), (296, 34076),

Gene: Radiance_42 Start: 31767, Stop: 33068, Start Num: 42
Candidate Starts for Radiance_42:
(Start: 42 @31767 has 163 MA's), (54, 31833), (60, 31887), (65, 31914), (79, 31983), (80, 31995), (103, 32133), (125, 32205), (128, 32229), (131, 32244), (134, 32253), (143, 32307), (152, 32340), (156, 32361), (175, 32472), (185, 32547), (211, 32658), (213, 32661), (225, 32700), (226, 32706), (227, 32709), (230, 32718), (232, 32724), (236, 32730), (247, 32763), (249, 32766), (255, 32814), (258, 32826), (262, 32844), (267, 32865), (272, 32901), (276, 32919), (281, 32937), (283, 32946), (286, 32961), (296, 33015),

Gene: Ramsey_44 Start: 32395, Stop: 33696, Start Num: 42

Candidate Starts for Ramsey_44:
(Start: 42 @32395 has 163 MA's), (54, 32461), (60, 32515), (62, 32524), (65, 32542), (79, 32611), (80, 32623), (103, 32761), (125, 32833), (128, 32857), (131, 32872), (134, 32881), (143, 32935), (152, 32968), (156, 32989), (175, 33100), (185, 33175), (211, 33286), (213, 33289), (225, 33328), (226, 33334), (227, 33337), (230, 33346), (232, 33352), (236, 33358), (247, 33391), (249, 33394), (255, 33442), (258, 33454), (262, 33472), (267, 33493), (272, 33529), (276, 33547), (281, 33565), (283, 33574), (286, 33589), (296, 33643),

Gene: Red305_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for Red305_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: RedBird_40 Start: 31750, Stop: 33051, Start Num: 42
Candidate Starts for RedBird_40:
(Start: 42 @31750 has 163 MA's), (54, 31816), (60, 31870), (65, 31897), (79, 31966), (80, 31978), (103, 32116), (125, 32188), (128, 32212), (131, 32227), (134, 32236), (143, 32290), (152, 32323), (156, 32344), (175, 32455), (185, 32530), (211, 32641), (213, 32644), (225, 32683), (226, 32689), (227, 32692), (230, 32701), (232, 32707), (236, 32713), (247, 32746), (249, 32749), (255, 32797), (258, 32809), (262, 32827), (267, 32848), (272, 32884), (276, 32902), (281, 32920), (283, 32929), (286, 32944), (296, 32998),

Gene: Reptar3000_43 Start: 32643, Stop: 33908, Start Num: 27
Candidate Starts for Reptar3000_43:
(Start: 27 @32643 has 16 MA's), (30, 32655), (Start: 42 @32673 has 163 MA's), (Start: 53 @32730 has 2 MA's), (Start: 59 @32784 has 2 MA's), (71, 32844), (77, 32877), (88, 32928), (103, 33027), (104, 33036), (107, 33048), (129, 33132), (135, 33156), (175, 33378), (177, 33387), (178, 33396), (192, 33447), (208, 33510), (234, 33591), (249, 33639), (257, 33699), (259, 33705), (267, 33729), (280, 33798), (286, 33825), (288, 33831), (293, 33864),

Gene: RitaG_41 Start: 31885, Stop: 33186, Start Num: 42
Candidate Starts for RitaG_41:
(Start: 42 @31885 has 163 MA's), (54, 31951), (60, 32005), (62, 32014), (65, 32032), (79, 32101), (80, 32113), (103, 32251), (125, 32323), (128, 32347), (131, 32362), (134, 32371), (143, 32425), (152, 32458), (156, 32479), (175, 32590), (185, 32665), (211, 32776), (213, 32779), (225, 32818), (226, 32824), (227, 32827), (230, 32836), (232, 32842), (236, 32848), (247, 32881), (249, 32884), (255, 32932), (258, 32944), (262, 32962), (267, 32983), (272, 33019), (276, 33037), (281, 33055), (283, 33064), (286, 33079), (296, 33133),

Gene: Rockne_40 Start: 31422, Stop: 32711, Start Num: 42
Candidate Starts for Rockne_40:
(Start: 42 @31422 has 163 MA's), (54, 31488), (60, 31542), (62, 31551), (65, 31569), (79, 31638), (80, 31650), (103, 31788), (125, 31860), (128, 31884), (131, 31899), (134, 31908), (143, 31962), (152, 31995), (156, 32016), (175, 32127), (185, 32202), (211, 32313), (213, 32316), (225, 32355), (226, 32361), (227, 32364), (230, 32373), (232, 32379), (236, 32385), (247, 32418), (249, 32421), (255, 32469), (258, 32481), (262, 32499), (267, 32520), (272, 32556), (276, 32574), (281, 32592), (283, 32601), (286, 32616), (296, 32670),

Gene: RockyHorror_44 Start: 31835, Stop: 33124, Start Num: 42
Candidate Starts for RockyHorror_44:

(Start: 42 @31835 has 163 MA's), (54, 31901), (60, 31955), (62, 31964), (65, 31982), (79, 32051), (80, 32063), (103, 32201), (128, 32297), (131, 32312), (134, 32321), (143, 32375), (152, 32408), (156, 32429), (175, 32540), (185, 32615), (211, 32726), (213, 32729), (225, 32768), (226, 32774), (227, 32777), (230, 32786), (232, 32792), (236, 32798), (247, 32831), (249, 32834), (255, 32882), (258, 32894), (262, 32912), (267, 32933), (272, 32969), (276, 32987), (281, 33005), (283, 33014), (286, 33029), (296, 33083),

Gene: RonRayGun_33 Start: 27780, Stop: 29102, Start Num: 14
Candidate Starts for RonRayGun_33:
(Start: 14 @27780 has 1 MA's), (Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: Rose5_35 Start: 30284, Stop: 31591, Start Num: 39
Candidate Starts for Rose5_35:
(Start: 39 @30284 has 77 MA's), (55, 30374), (57, 30380), (71, 30473), (103, 30662), (104, 30671), (107, 30683), (125, 30758), (127, 30770), (128, 30782), (129, 30785), (132, 30800), (138, 30827), (161, 30953), (172, 31019), (175, 31040), (225, 31223), (226, 31229), (238, 31259), (249, 31301), (269, 31409), (272, 31439), (283, 31484), (287, 31502), (291, 31526), (293, 31538),

Gene: Rossetti_38 Start: 31930, Stop: 33231, Start Num: 39
Candidate Starts for Rossetti_38:
(Start: 19 @31885 has 1 MA's), (Start: 39 @31930 has 77 MA's), (Start: 53 @32002 has 2 MA's), (71, 32116), (93, 32248), (104, 32314), (128, 32425), (131, 32440), (161, 32596), (166, 32629), (172, 32662), (175, 32683), (226, 32872), (238, 32902), (247, 32941), (249, 32944), (257, 33004), (259, 33010), (267, 33046), (268, 33049), (272, 33082), (283, 33127), (287, 33145), (292, 33175),

Gene: Royals2015_43 Start: 32053, Stop: 33342, Start Num: 42
Candidate Starts for Royals2015_43:
(Start: 42 @32053 has 163 MA's), (54, 32119), (60, 32173), (65, 32200), (79, 32269), (80, 32281), (81, 32284), (103, 32419), (125, 32491), (128, 32515), (131, 32530), (134, 32539), (143, 32593), (152, 32626), (156, 32647), (175, 32758), (185, 32833), (211, 32944), (213, 32947), (226, 32992), (227, 32995), (230, 33004), (232, 33010), (236, 33016), (247, 33049), (249, 33052), (255, 33100), (258, 33112), (262, 33130), (272, 33187), (276, 33205), (281, 33223), (283, 33232), (286, 33247), (296, 33301),

Gene: Ruby_42 Start: 32606, Stop: 33907, Start Num: 42
Candidate Starts for Ruby_42:
(Start: 42 @32606 has 163 MA's), (54, 32672), (60, 32726), (62, 32735), (65, 32753), (79, 32822), (80, 32834), (103, 32972), (125, 33044), (128, 33068), (131, 33083), (134, 33092), (143, 33146), (152, 33179), (156, 33200), (175, 33311), (185, 33386), (211, 33497), (213, 33500), (225, 33539), (226, 33545), (227, 33548), (230, 33557), (232, 33563), (236, 33569), (247, 33602), (249, 33605), (255, 33653), (258, 33665), (262, 33683), (267, 33704), (272, 33740), (276, 33758), (281, 33776), (283, 33785), (286, 33800), (296, 33854),

Gene: Rumpelstiltskin_38 Start: 31923, Stop: 33230, Start Num: 39
Candidate Starts for Rumpelstiltskin_38:
(Start: 19 @31878 has 1 MA's), (Start: 39 @31923 has 77 MA's), (Start: 53 @31995 has 2 MA's), (55, 32010), (63, 32073), (71, 32109), (104, 32307), (131, 32433), (161, 32589), (166, 32622), (173, 32658), (175, 32676), (177, 32685), (226, 32868), (238, 32898), (247, 32937), (257, 33000), (259, 33006), (265, 33030), (268, 33045), (269, 33048), (279, 33108), (283, 33123), (287, 33141), (292,

33171), (293, 33177),

Gene: Ruthiejr_46 Start: 33493, Stop: 34758, Start Num: 27
Candidate Starts for Ruthiejr_46:
(Start: 19 @33472 has 1 MA's), (Start: 27 @33493 has 16 MA's), (30, 33505), (Start: 42 @33523 has 163 MA's), (Start: 53 @33580 has 2 MA's), (Start: 59 @33634 has 2 MA's), (63, 33658), (77, 33727), (88, 33778), (103, 33877), (104, 33886), (107, 33898), (128, 33979), (135, 34006), (175, 34228), (177, 34237), (178, 34246), (192, 34297), (208, 34360), (230, 34432), (234, 34441), (249, 34489), (267, 34579), (279, 34645), (280, 34648), (286, 34675), (288, 34681), (291, 34702), (293, 34714),

Gene: Sabbb_48 Start: 33435, Stop: 34736, Start Num: 42
Candidate Starts for Sabbb_48:
(Start: 42 @33435 has 163 MA's), (54, 33501), (60, 33555), (62, 33564), (65, 33582), (79, 33651), (80, 33663), (103, 33801), (128, 33897), (131, 33912), (134, 33921), (143, 33975), (152, 34008), (156, 34029), (175, 34140), (185, 34215), (211, 34326), (213, 34329), (225, 34368), (226, 34374), (227, 34377), (230, 34386), (232, 34392), (236, 34398), (247, 34431), (249, 34434), (255, 34482), (258, 34494), (262, 34512), (267, 34533), (272, 34569), (276, 34587), (281, 34605), (283, 34614), (286, 34629), (296, 34683),

Gene: SamScheppers_44 Start: 33922, Stop: 35187, Start Num: 27
Candidate Starts for SamScheppers_44:
(Start: 19 @33901 has 1 MA's), (Start: 27 @33922 has 16 MA's), (30, 33934), (Start: 42 @33952 has 163 MA's), (Start: 53 @34009 has 2 MA's), (Start: 59 @34063 has 2 MA's), (63, 34087), (77, 34156), (88, 34207), (103, 34306), (104, 34315), (107, 34327), (128, 34408), (135, 34435), (175, 34657), (177, 34666), (178, 34675), (192, 34726), (208, 34789), (230, 34861), (234, 34870), (249, 34918), (267, 35008), (279, 35074), (280, 35077), (286, 35104), (288, 35110), (291, 35131), (293, 35143),

Gene: Samty_36 Start: 31899, Stop: 33191, Start Num: 39
Candidate Starts for Samty_36:
(11, 31815), (18, 31848), (Start: 39 @31899 has 77 MA's), (Start: 53 @31974 has 2 MA's), (55, 31989), (104, 32286), (128, 32382), (136, 32415), (157, 32541), (161, 32553), (173, 32622), (226, 32829), (243, 32871), (249, 32901), (257, 32961), (268, 33006), (269, 33009), (272, 33039), (283, 33084), (287, 33102), (291, 33126), (293, 33138),

Gene: Sandalphon_45 Start: 32954, Stop: 34255, Start Num: 42
Candidate Starts for Sandalphon_45:
(Start: 42 @32954 has 163 MA's), (54, 33020), (60, 33074), (65, 33101), (79, 33170), (80, 33182), (103, 33320), (125, 33392), (128, 33416), (131, 33431), (134, 33440), (143, 33494), (152, 33527), (156, 33548), (175, 33659), (185, 33734), (211, 33845), (213, 33848), (225, 33887), (226, 33893), (227, 33896), (230, 33905), (232, 33911), (236, 33917), (247, 33950), (249, 33953), (255, 34001), (258, 34013), (262, 34031), (267, 34052), (272, 34088), (276, 34106), (281, 34124), (283, 34133), (286, 34148), (296, 34202),

Gene: Sarshaun_38 Start: 31689, Stop: 32996, Start Num: 39
Candidate Starts for Sarshaun_38:
(Start: 19 @31644 has 1 MA's), (Start: 39 @31689 has 77 MA's), (Start: 53 @31761 has 2 MA's), (55, 31776), (63, 31839), (71, 31875), (72, 31878), (104, 32073), (131, 32199), (161, 32355), (166, 32388), (173, 32424), (175, 32442), (177, 32451), (226, 32634), (238, 32664), (247, 32703), (249, 32706), (257, 32766), (259, 32772), (265, 32796), (268, 32811), (269, 32814), (279, 32874), (283, 32889), (287, 32907), (292, 32937), (293, 32943),

Gene: Sassafras_42 Start: 32276, Stop: 33577, Start Num: 42
Candidate Starts for Sassafras_42:

(Start: 42 @32276 has 163 MA's), (54, 32342), (60, 32396), (62, 32405), (65, 32423), (79, 32492), (80, 32504), (103, 32642), (125, 32714), (128, 32738), (131, 32753), (134, 32762), (143, 32816), (152, 32849), (156, 32870), (175, 32981), (185, 33056), (211, 33167), (213, 33170), (225, 33209), (226, 33215), (227, 33218), (230, 33227), (232, 33233), (236, 33239), (247, 33272), (249, 33275), (255, 33323), (258, 33335), (262, 33353), (267, 33374), (272, 33410), (276, 33428), (281, 33446), (283, 33455), (286, 33470), (296, 33524),

Gene: SassyB_39 Start: 31428, Stop: 32729, Start Num: 42
Candidate Starts for SassyB_39:
(Start: 42 @31428 has 163 MA's), (54, 31494), (60, 31548), (62, 31557), (65, 31575), (79, 31644), (80, 31656), (103, 31794), (128, 31890), (131, 31905), (134, 31914), (143, 31968), (152, 32001), (156, 32022), (175, 32133), (185, 32208), (211, 32319), (213, 32322), (225, 32361), (226, 32367), (227, 32370), (230, 32379), (232, 32385), (236, 32391), (247, 32424), (249, 32427), (255, 32475), (258, 32487), (262, 32505), (267, 32526), (272, 32562), (276, 32580), (281, 32598), (283, 32607), (286, 32622), (296, 32676),

Gene: Scottish_43 Start: 32897, Stop: 34198, Start Num: 42
Candidate Starts for Scottish_43:
(Start: 42 @32897 has 163 MA's), (54, 32963), (60, 33017), (62, 33026), (65, 33044), (79, 33113), (80, 33125), (103, 33263), (125, 33335), (128, 33359), (131, 33374), (134, 33383), (143, 33437), (152, 33470), (156, 33491), (175, 33602), (185, 33677), (211, 33788), (213, 33791), (225, 33830), (226, 33836), (227, 33839), (230, 33848), (232, 33854), (236, 33860), (247, 33893), (249, 33896), (255, 33944), (258, 33956), (262, 33974), (267, 33995), (272, 34031), (276, 34049), (281, 34067), (283, 34076), (286, 34091), (296, 34145),

Gene: Seabastian_45 Start: 33144, Stop: 34454, Start Num: 42
Candidate Starts for Seabastian_45:
(Start: 42 @33144 has 163 MA's), (54, 33210), (60, 33264), (65, 33291), (79, 33360), (80, 33372), (103, 33510), (128, 33606), (131, 33621), (134, 33630), (143, 33684), (152, 33717), (156, 33738), (175, 33849), (185, 33924), (211, 34035), (213, 34038), (225, 34077), (226, 34083), (227, 34086), (230, 34095), (232, 34101), (236, 34107), (247, 34140), (249, 34143), (255, 34191), (258, 34203), (262, 34221), (267, 34242), (272, 34278), (276, 34296), (281, 34314), (283, 34323), (286, 34338), (296, 34392),

Gene: Seagreen_44 Start: 32175, Stop: 33485, Start Num: 42
Candidate Starts for Seagreen_44:
(9, 32049), (10, 32076), (28, 32142), (31, 32154), (Start: 42 @32175 has 163 MA's), (54, 32241), (60, 32295), (65, 32322), (79, 32391), (80, 32403), (103, 32541), (128, 32637), (131, 32652), (134, 32661), (143, 32715), (152, 32748), (156, 32769), (161, 32790), (175, 32880), (185, 32955), (211, 33066), (213, 33069), (225, 33108), (226, 33114), (227, 33117), (230, 33126), (232, 33132), (236, 33138), (247, 33171), (249, 33174), (255, 33222), (258, 33234), (262, 33252), (267, 33273), (272, 33309), (276, 33327), (281, 33345), (283, 33354), (286, 33369), (296, 33423),

Gene: Shadow1_45 Start: 32862, Stop: 34250, Start Num: 38
Candidate Starts for Shadow1_45:
(Start: 38 @32862 has 22 MA's), (Start: 53 @32940 has 2 MA's), (55, 32955), (60, 32997), (77, 33090), (88, 33144), (103, 33243), (104, 33252), (105, 33255), (166, 33543), (174, 33585), (175, 33597), (177, 33606), (192, 33681), (207, 33741), (214, 33762), (224, 33795), (225, 33798), (226, 33804), (262, 33960), (279, 34050), (314, 34209), (317, 34236),

Gene: ShedlockHolmes_43 Start: 32615, Stop: 33895, Start Num: 42
Candidate Starts for ShedlockHolmes_43:

(Start: 42 @32615 has 163 MA's), (57, 32696), (61, 32735), (73, 32804), (91, 32915), (95, 32933), (99, 32951), (103, 32981), (104, 32990), (107, 33002), (118, 33044), (129, 33086), (135, 33110), (164, 33272), (165, 33275), (175, 33335), (177, 33344), (208, 33467), (225, 33521), (227, 33530), (249, 33596), (258, 33659), (267, 33710), (273, 33749), (299, 33869), (303, 33881),

Gene: Sheng711_35 Start: 30396, Stop: 31703, Start Num: 39
Candidate Starts for Sheng711_35:
(Start: 27 @30375 has 16 MA's), (Start: 39 @30396 has 77 MA's), (Start: 53 @30471 has 2 MA's), (55, 30486), (63, 30549), (66, 30558), (83, 30654), (92, 30708), (103, 30771), (104, 30780), (124, 30861), (133, 30912), (135, 30918), (140, 30954), (161, 31062), (173, 31131), (175, 31149), (177, 31158), (184, 31200), (198, 31245), (224, 31332), (226, 31341), (243, 31383), (249, 31413), (257, 31473), (259, 31479), (262, 31494), (272, 31551), (283, 31596), (287, 31614), (292, 31644),

Gene: ShiLan_44 Start: 33263, Stop: 34552, Start Num: 42
Candidate Starts for ShiLan_44:
(Start: 42 @33263 has 163 MA's), (54, 33329), (60, 33383), (62, 33392), (65, 33410), (79, 33479), (80, 33491), (103, 33629), (125, 33701), (128, 33725), (131, 33740), (134, 33749), (143, 33803), (152, 33836), (156, 33857), (175, 33968), (185, 34043), (211, 34154), (213, 34157), (225, 34196), (226, 34202), (227, 34205), (230, 34214), (232, 34220), (236, 34226), (247, 34259), (249, 34262), (255, 34310), (258, 34322), (262, 34340), (267, 34361), (272, 34397), (276, 34415), (281, 34433), (283, 34442), (286, 34457), (296, 34511),

Gene: ShowerHandel_45 Start: 33222, Stop: 34523, Start Num: 42
Candidate Starts for ShowerHandel_45:
(Start: 42 @33222 has 163 MA's), (54, 33288), (60, 33342), (62, 33351), (65, 33369), (79, 33438), (80, 33450), (103, 33588), (125, 33660), (128, 33684), (131, 33699), (134, 33708), (143, 33762), (152, 33795), (156, 33816), (175, 33927), (185, 34002), (211, 34113), (213, 34116), (225, 34155), (226, 34161), (227, 34164), (230, 34173), (232, 34179), (236, 34185), (247, 34218), (249, 34221), (255, 34269), (258, 34281), (262, 34299), (267, 34320), (272, 34356), (276, 34374), (281, 34392), (283, 34401), (286, 34416), (296, 34470),

Gene: SiSi_43 Start: 31969, Stop: 33258, Start Num: 42
Candidate Starts for SiSi_43:
(Start: 42 @31969 has 163 MA's), (54, 32035), (60, 32089), (65, 32116), (79, 32185), (80, 32197), (81, 32200), (103, 32335), (125, 32407), (128, 32431), (131, 32446), (134, 32455), (143, 32509), (152, 32542), (156, 32563), (175, 32674), (185, 32749), (211, 32860), (213, 32863), (226, 32908), (227, 32911), (230, 32920), (232, 32926), (236, 32932), (247, 32965), (249, 32968), (255, 33016), (258, 33028), (262, 33046), (267, 33067), (272, 33103), (276, 33121), (281, 33139), (283, 33148), (286, 33163), (296, 33217),

Gene: Silverleaf_35 Start: 30284, Stop: 31591, Start Num: 39
Candidate Starts for Silverleaf_35:
(Start: 39 @30284 has 77 MA's), (55, 30374), (57, 30380), (71, 30473), (103, 30662), (104, 30671), (107, 30683), (125, 30758), (127, 30770), (128, 30782), (129, 30785), (132, 30800), (138, 30827), (161, 30953), (172, 31019), (175, 31040), (225, 31223), (226, 31229), (238, 31259), (249, 31301), (269, 31409), (272, 31439), (283, 31484), (287, 31502), (291, 31526), (293, 31538),

Gene: SirPhilip_42 Start: 33094, Stop: 34491, Start Num: 38
Candidate Starts for SirPhilip_42:
(13, 33046), (Start: 38 @33094 has 22 MA's), (Start: 53 @33172 has 2 MA's), (55, 33187), (60, 33229), (63, 33250), (74, 33304), (77, 33322), (84, 33361), (88, 33376), (103, 33475), (104, 33484), (127, 33565), (155, 33712), (174, 33814), (175, 33826), (177, 33835), (192, 33910), (207, 33970), (214, 33991), (224, 34024), (226, 34033), (249, 34108), (272, 34249), (279, 34279),

Gene: Slarp_45 Start: 33531, Stop: 34796, Start Num: 27
Candidate Starts for Slarp_45:
(Start: 19 @33510 has 1 MA's), (Start: 27 @33531 has 16 MA's), (30, 33543), (Start: 42 @33561 has 163 MA's), (Start: 53 @33618 has 2 MA's), (Start: 59 @33672 has 2 MA's), (63, 33696), (77, 33765), (88, 33816), (103, 33915), (104, 33924), (107, 33936), (128, 34017), (135, 34044), (175, 34266), (177, 34275), (178, 34284), (192, 34335), (208, 34398), (230, 34470), (234, 34479), (249, 34527), (267, 34617), (279, 34683), (280, 34686), (286, 34713), (288, 34719), (291, 34740), (293, 34752),

Gene: Slim_44 Start: 33122, Stop: 34411, Start Num: 42
Candidate Starts for Slim_44:
(Start: 42 @33122 has 163 MA's), (54, 33188), (60, 33242), (62, 33251), (65, 33269), (79, 33338), (80, 33350), (103, 33488), (125, 33560), (128, 33584), (131, 33599), (134, 33608), (143, 33662), (152, 33695), (156, 33716), (175, 33827), (185, 33902), (211, 34013), (213, 34016), (225, 34055), (226, 34061), (227, 34064), (230, 34073), (232, 34079), (236, 34085), (247, 34118), (249, 34121), (255, 34169), (258, 34181), (262, 34199), (267, 34220), (272, 34256), (276, 34274), (281, 34292), (283, 34301), (286, 34316), (296, 34370),

Gene: Snenia_36 Start: 31899, Stop: 33191, Start Num: 39
Candidate Starts for Snenia_36:
(11, 31815), (18, 31848), (Start: 39 @31899 has 77 MA's), (Start: 53 @31974 has 2 MA's), (55, 31989), (104, 32286), (128, 32382), (136, 32415), (157, 32541), (161, 32553), (173, 32622), (226, 32829), (243, 32871), (249, 32901), (257, 32961), (268, 33006), (269, 33009), (272, 33039), (283, 33084), (287, 33102), (291, 33126), (293, 33138),

Gene: SoJulia_39 Start: 31916, Stop: 33223, Start Num: 39
Candidate Starts for SoJulia_39:
(Start: 19 @31871 has 1 MA's), (Start: 39 @31916 has 77 MA's), (Start: 53 @31988 has 2 MA's), (55, 32003), (63, 32066), (71, 32102), (104, 32300), (131, 32426), (161, 32582), (166, 32615), (173, 32651), (175, 32669), (177, 32678), (226, 32861), (238, 32891), (247, 32930), (257, 32993), (259, 32999), (265, 33023), (268, 33038), (269, 33041), (279, 33101), (283, 33116), (287, 33134), (292, 33164), (293, 33170),

Gene: Soap141_38 Start: 31776, Stop: 32996, Start Num: 55
Candidate Starts for Soap141_38:
(Start: 19 @31644 has 1 MA's), (Start: 39 @31689 has 77 MA's), (Start: 53 @31761 has 2 MA's), (55, 31776), (63, 31839), (71, 31875), (72, 31878), (104, 32073), (131, 32199), (161, 32355), (166, 32388), (173, 32424), (175, 32442), (177, 32451), (226, 32634), (238, 32664), (247, 32703), (249, 32706), (257, 32766), (259, 32772), (265, 32796), (268, 32811), (269, 32814), (279, 32874), (283, 32889), (287, 32907), (292, 32937), (293, 32943),

Gene: Sparkdehlily_45 Start: 32819, Stop: 34120, Start Num: 42
Candidate Starts for Sparkdehlily_45:
(Start: 42 @32819 has 163 MA's), (54, 32885), (60, 32939), (65, 32966), (79, 33035), (80, 33047), (103, 33185), (104, 33194), (128, 33281), (131, 33296), (134, 33305), (143, 33359), (152, 33392), (156, 33413), (175, 33524), (185, 33599), (211, 33710), (213, 33713), (225, 33752), (226, 33758), (227, 33761), (230, 33770), (232, 33776), (236, 33782), (247, 33815), (249, 33818), (255, 33866), (258, 33878), (262, 33896), (267, 33917), (272, 33953), (276, 33971), (281, 33989), (283, 33998), (286, 34013), (296, 34067),

Gene: SpeedDemon_660 Start: 49456, Stop: 50841, Start Num: 43
Candidate Starts for SpeedDemon_660:

(Start: 32 @49432 has 2 MA's), (Start: 43 @49456 has 13 MA's), (Start: 53 @49522 has 2 MA's), (82, 49699), (99, 49792), (104, 49831), (110, 49876), (112, 49885), (121, 49936), (122, 49939), (123, 49942), (127, 49966), (131, 49993), (135, 50011), (137, 50026), (138, 50029), (167, 50182), (176, 50227), (184, 50272), (189, 50287), (197, 50326), (214, 50377), (220, 50398), (226, 50419), (242, 50458), (273, 50623), (275, 50632), (279, 50650), (281, 50656), (299, 50743), (305, 50761), (309, 50797),

Gene: Spikelee_48 Start: 32968, Stop: 34257, Start Num: 42
Candidate Starts for Spikelee_48:
(Start: 42 @32968 has 163 MA's), (54, 33034), (60, 33088), (65, 33115), (79, 33184), (80, 33196), (103, 33334), (125, 33406), (128, 33430), (131, 33445), (134, 33454), (143, 33508), (152, 33541), (156, 33562), (175, 33673), (185, 33748), (211, 33859), (213, 33862), (225, 33901), (226, 33907), (227, 33910), (230, 33919), (232, 33925), (236, 33931), (247, 33964), (249, 33967), (255, 34015), (258, 34027), (262, 34045), (267, 34066), (272, 34102), (276, 34120), (281, 34138), (283, 34147), (286, 34162), (296, 34216),

Gene: Spooky_42 Start: 30480, Stop: 31712, Start Num: 42
Candidate Starts for Spooky_42:
(Start: 42 @30480 has 163 MA's), (Start: 53 @30543 has 2 MA's), (64, 30615), (68, 30633), (80, 30696), (89, 30747), (94, 30780), (98, 30792), (104, 30840), (118, 30897), (120, 30900), (127, 30924), (135, 30963), (146, 31026), (175, 31173), (183, 31218), (187, 31242), (194, 31269), (221, 31341), (222, 31344), (239, 31362), (246, 31395), (249, 31398), (258, 31461), (263, 31482), (273, 31542), (281, 31575), (288, 31605),

Gene: Spoonbill_42 Start: 31856, Stop: 33145, Start Num: 42
Candidate Starts for Spoonbill_42:
(Start: 42 @31856 has 163 MA's), (54, 31922), (60, 31976), (62, 31985), (65, 32003), (79, 32072), (80, 32084), (103, 32222), (125, 32294), (128, 32318), (131, 32333), (134, 32342), (143, 32396), (152, 32429), (156, 32450), (175, 32561), (185, 32636), (211, 32747), (213, 32750), (225, 32789), (226, 32795), (227, 32798), (230, 32807), (232, 32813), (236, 32819), (247, 32852), (249, 32855), (255, 32903), (258, 32915), (262, 32933), (267, 32954), (272, 32990), (276, 33008), (281, 33026), (283, 33035), (286, 33050), (296, 33104),

Gene: Squiddly_44 Start: 32456, Stop: 33673, Start Num: 42
Candidate Starts for Squiddly_44:
(1, 32198), (4, 32282), (5, 32306), (Start: 42 @32456 has 163 MA's), (Start: 53 @32519 has 2 MA's), (54, 32525), (68, 32609), (104, 32816), (125, 32888), (127, 32900), (135, 32939), (142, 32984), (146, 33002), (165, 33089), (177, 33158), (183, 33194), (200, 33266), (216, 33299), (218, 33308), (221, 33317), (249, 33374), (260, 33443), (263, 33458), (265, 33467), (276, 33533), (281, 33551),

Gene: Stap_42 Start: 31715, Stop: 33016, Start Num: 42
Candidate Starts for Stap_42:
(Start: 42 @31715 has 163 MA's), (54, 31781), (60, 31835), (65, 31862), (79, 31931), (80, 31943), (103, 32081), (125, 32153), (128, 32177), (131, 32192), (134, 32201), (143, 32255), (152, 32288), (156, 32309), (175, 32420), (185, 32495), (211, 32606), (213, 32609), (225, 32648), (226, 32654), (227, 32657), (230, 32666), (232, 32672), (236, 32678), (247, 32711), (249, 32714), (255, 32762), (258, 32774), (262, 32792), (267, 32813), (272, 32849), (276, 32867), (281, 32885), (283, 32894), (286, 32909), (296, 32963),

Gene: Starcevich_43 Start: 32603, Stop: 33892, Start Num: 42
Candidate Starts for Starcevich_43:
(Start: 42 @32603 has 163 MA's), (54, 32669), (60, 32723), (65, 32750), (79, 32819), (80, 32831), (81, 32834), (103, 32969), (125, 33041), (128, 33065), (131, 33080), (134, 33089), (143, 33143), (152,

33176), (156, 33197), (175, 33308), (185, 33383), (211, 33494), (213, 33497), (226, 33542), (227, 33545), (230, 33554), (232, 33560), (236, 33566), (247, 33599), (249, 33602), (255, 33650), (258, 33662), (262, 33680), (267, 33701), (272, 33737), (276, 33755), (281, 33773), (283, 33782), (286, 33797), (296, 33851),

Gene: Sunflower1121_46 Start: 32957, Stop: 34345, Start Num: 38
Candidate Starts for Sunflower1121_46:
(Start: 38 @32957 has 22 MA's), (Start: 53 @33035 has 2 MA's), (55, 33050), (60, 33092), (77, 33185), (88, 33239), (103, 33338), (104, 33347), (105, 33350), (166, 33638), (174, 33680), (175, 33692), (177, 33701), (192, 33776), (207, 33836), (214, 33857), (224, 33890), (225, 33893), (226, 33899), (262, 34055), (279, 34145), (314, 34304), (317, 34331),

Gene: Syra333_45 Start: 32618, Stop: 34006, Start Num: 38
Candidate Starts for Syra333_45:
(Start: 38 @32618 has 22 MA's), (Start: 53 @32696 has 2 MA's), (55, 32711), (60, 32753), (77, 32846), (88, 32900), (103, 32999), (104, 33008), (105, 33011), (166, 33299), (174, 33341), (175, 33353), (177, 33362), (192, 33437), (207, 33497), (214, 33518), (224, 33551), (226, 33560), (262, 33716), (279, 33806), (314, 33965), (317, 33992),

Gene: TBond007_42 Start: 32080, Stop: 33360, Start Num: 42
Candidate Starts for TBond007_42:
(Start: 42 @32080 has 163 MA's), (57, 32161), (61, 32200), (73, 32269), (91, 32380), (95, 32398), (99, 32416), (103, 32446), (104, 32455), (107, 32467), (118, 32509), (129, 32551), (135, 32575), (153, 32674), (164, 32737), (165, 32740), (175, 32800), (177, 32809), (208, 32932), (225, 32986), (227, 32995), (247, 33058), (249, 33061), (258, 33124), (267, 33175), (273, 33214), (303, 33346),

Gene: TDanisky_45 Start: 32819, Stop: 34120, Start Num: 42
Candidate Starts for TDanisky_45:
(Start: 42 @32819 has 163 MA's), (54, 32885), (60, 32939), (65, 32966), (79, 33035), (80, 33047), (103, 33185), (104, 33194), (128, 33281), (131, 33296), (134, 33305), (143, 33359), (152, 33392), (156, 33413), (175, 33524), (185, 33599), (211, 33710), (213, 33713), (225, 33752), (226, 33758), (227, 33761), (230, 33770), (232, 33776), (236, 33782), (247, 33815), (249, 33818), (255, 33866), (258, 33878), (262, 33896), (267, 33917), (272, 33953), (276, 33971), (281, 33989), (283, 33998), (286, 34013), (296, 34067),

Gene: Taquito_45 Start: 33948, Stop: 35183, Start Num: 42
Candidate Starts for Taquito_45:
(Start: 19 @33897 has 1 MA's), (Start: 27 @33918 has 16 MA's), (30, 33930), (Start: 42 @33948 has 163 MA's), (Start: 53 @34005 has 2 MA's), (Start: 59 @34059 has 2 MA's), (63, 34083), (77, 34152), (88, 34203), (103, 34302), (104, 34311), (107, 34323), (128, 34404), (135, 34431), (175, 34653), (177, 34662), (178, 34671), (192, 34722), (208, 34785), (230, 34857), (234, 34866), (249, 34914), (267, 35004), (279, 35070), (280, 35073), (286, 35100), (288, 35106), (291, 35127), (293, 35139),

Gene: Tchotchke_44 Start: 31730, Stop: 33019, Start Num: 42
Candidate Starts for Tchotchke_44:
(Start: 42 @31730 has 163 MA's), (54, 31796), (60, 31850), (65, 31877), (79, 31946), (80, 31958), (81, 31961), (103, 32096), (125, 32168), (128, 32192), (131, 32207), (134, 32216), (143, 32270), (152, 32303), (156, 32324), (175, 32435), (185, 32510), (211, 32621), (213, 32624), (226, 32669), (227, 32672), (230, 32681), (232, 32687), (236, 32693), (247, 32726), (249, 32729), (255, 32777), (258, 32789), (262, 32807), (267, 32828), (272, 32864), (276, 32882), (281, 32900), (283, 32909), (286, 32924), (296, 32978),

Gene: ThetaBob_45 Start: 33333, Stop: 32056, Start Num: 36

Candidate Starts for ThetaBob_45:
(Start: 36 @33333 has 4 MA's), (Start: 53 @33252 has 2 MA's), (56, 33231), (74, 33117), (79, 33099), (82, 33075), (92, 33015), (94, 33003), (96, 32997), (103, 32955), (104, 32946), (117, 32898), (125, 32880), (129, 32853), (135, 32829), (137, 32814), (142, 32784), (154, 32733), (157, 32715), (198, 32523), (204, 32508), (209, 32487), (210, 32484), (211, 32475), (236, 32403), (249, 32355), (251, 32328), (267, 32253), (272, 32217), (281, 32181), (296, 32103), (301, 32088), (302, 32085), (306, 32064),

Gene: Tierra_43 Start: 32593, Stop: 33972, Start Num: 38
Candidate Starts for Tierra_43:
(Start: 38 @32593 has 22 MA's), (Start: 53 @32668 has 2 MA's), (55, 32683), (60, 32725), (74, 32800), (77, 32818), (79, 32824), (84, 32857), (88, 32872), (103, 32971), (104, 32980), (105, 32983), (164, 33262), (174, 33313), (175, 33325), (177, 33334), (192, 33409), (207, 33469), (214, 33490), (222, 33517), (224, 33523), (226, 33532), (258, 33670), (262, 33688), (279, 33778), (314, 33937),

Gene: Tigress9_45 Start: 32803, Stop: 34188, Start Num: 38
Candidate Starts for Tigress9_45:
(20, 32773), (Start: 38 @32803 has 22 MA's), (Start: 53 @32878 has 2 MA's), (55, 32893), (60, 32935), (77, 33028), (88, 33082), (103, 33181), (104, 33190), (105, 33193), (174, 33523), (175, 33535), (177, 33544), (192, 33619), (207, 33679), (214, 33700), (222, 33727), (224, 33733), (226, 33742), (262, 33898), (279, 33988), (317, 34174),

Gene: TootsiePop_40 Start: 30866, Stop: 32137, Start Num: 43
Candidate Starts for TootsiePop_40:
(Start: 43 @30866 has 13 MA's), (54, 30929), (60, 30983), (62, 30992), (65, 31010), (79, 31079), (80, 31091), (103, 31229), (131, 31340), (143, 31403), (156, 31457), (173, 31550), (211, 31751), (225, 31793), (226, 31799), (230, 31811), (236, 31823), (240, 31832), (243, 31838), (247, 31856), (249, 31859), (258, 31919), (262, 31937), (267, 31958), (276, 32012), (281, 32030), (286, 32054), (294, 32099), (296, 32108), (303, 32129),

Gene: Tootsieroll_45 Start: 32005, Stop: 33306, Start Num: 42
Candidate Starts for Tootsieroll_45:
(Start: 42 @32005 has 163 MA's), (54, 32071), (60, 32125), (65, 32152), (79, 32221), (80, 32233), (103, 32371), (125, 32443), (128, 32467), (131, 32482), (134, 32491), (143, 32545), (152, 32578), (156, 32599), (175, 32710), (185, 32785), (211, 32896), (213, 32899), (225, 32938), (226, 32944), (227, 32947), (230, 32956), (232, 32962), (236, 32968), (247, 33001), (249, 33004), (255, 33052), (258, 33064), (262, 33082), (267, 33103), (272, 33139), (276, 33157), (281, 33175), (283, 33184), (286, 33199), (296, 33253),

Gene: Topiatin_48 Start: 33507, Stop: 34796, Start Num: 42
Candidate Starts for Topiatin_48:
(Start: 42 @33507 has 163 MA's), (54, 33573), (60, 33627), (65, 33654), (79, 33723), (80, 33735), (103, 33873), (128, 33969), (131, 33984), (134, 33993), (143, 34047), (152, 34080), (156, 34101), (175, 34212), (185, 34287), (211, 34398), (213, 34401), (225, 34440), (226, 34446), (227, 34449), (232, 34464), (236, 34470), (247, 34503), (249, 34506), (255, 34554), (258, 34566), (262, 34584), (267, 34605), (272, 34641), (276, 34659), (281, 34677), (283, 34686), (286, 34701), (296, 34755),

Gene: Toron_41 Start: 33514, Stop: 32246, Start Num: 36
Candidate Starts for Toron_41:
(Start: 36 @33514 has 4 MA's), (Start: 53 @33439 has 2 MA's), (79, 33286), (92, 33202), (94, 33190), (96, 33184), (104, 33133), (117, 33085), (125, 33067), (131, 33028), (132, 33025), (135, 33016), (154, 32920), (157, 32902), (166, 32857), (175, 32803), (177, 32794), (181, 32764), (198, 32710), (202, 32701), (204, 32695), (209, 32674), (210, 32671), (211, 32662), (213, 32659), (225, 32620), (227,

32611), (240, 32581), (249, 32542), (251, 32515), (258, 32479), (261, 32467), (267, 32440), (269, 32434), (272, 32404), (273, 32401), (281, 32368), (283, 32359), (288, 32338), (289, 32329), (296, 32290), (300, 32278), (301, 32275), (306, 32254),

Gene: Totinger_42 Start: 31733, Stop: 33031, Start Num: 42
Candidate Starts for Totinger_42:
(Start: 42 @31733 has 163 MA's), (54, 31799), (60, 31853), (65, 31880), (79, 31949), (80, 31961), (81, 31964), (103, 32099), (128, 32195), (131, 32210), (134, 32219), (143, 32273), (152, 32306), (156, 32327), (175, 32438), (185, 32513), (211, 32624), (213, 32627), (226, 32672), (227, 32675), (230, 32684), (232, 32690), (236, 32696), (247, 32729), (249, 32732), (255, 32780), (258, 32792), (262, 32810), (267, 32831), (272, 32867), (276, 32885), (281, 32903), (283, 32912), (286, 32927), (296, 32981),

Gene: Tourach_38 Start: 31657, Stop: 32958, Start Num: 39
Candidate Starts for Tourach_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (57, 31750), (71, 31843), (79, 31888), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (172, 32389), (175, 32410), (226, 32599), (238, 32629), (249, 32671), (257, 32731), (258, 32734), (259, 32737), (267, 32773), (268, 32776), (272, 32809), (283, 32854), (287, 32872), (292, 32902), (293, 32908),

Gene: TriFive_36 Start: 31898, Stop: 33190, Start Num: 39
Candidate Starts for TriFive_36:
(11, 31814), (18, 31847), (Start: 39 @31898 has 77 MA's), (Start: 53 @31973 has 2 MA's), (55, 31988), (104, 32285), (128, 32381), (136, 32414), (157, 32540), (161, 32552), (173, 32621), (226, 32828), (243, 32870), (249, 32900), (257, 32960), (268, 33005), (269, 33008), (272, 33038), (283, 33083), (287, 33101), (291, 33125), (293, 33137),

Gene: TribleTrouble_40 Start: 31879, Stop: 33267, Start Num: 38
Candidate Starts for TribleTrouble_40:
(Start: 38 @31879 has 22 MA's), (Start: 53 @31957 has 2 MA's), (60, 32014), (77, 32107), (79, 32113), (88, 32161), (103, 32260), (104, 32269), (105, 32272), (127, 32350), (164, 32554), (174, 32605), (175, 32617), (177, 32626), (182, 32656), (192, 32701), (207, 32761), (208, 32764), (222, 32809), (226, 32824), (249, 32899), (269, 33010), (279, 33070), (282, 33082),

Gene: Tweety_43 Start: 32478, Stop: 33767, Start Num: 42
Candidate Starts for Tweety_43:
(Start: 42 @32478 has 163 MA's), (54, 32544), (60, 32598), (65, 32625), (79, 32694), (80, 32706), (103, 32844), (125, 32916), (128, 32940), (131, 32955), (134, 32964), (143, 33018), (152, 33051), (156, 33072), (175, 33183), (185, 33258), (211, 33369), (213, 33372), (226, 33417), (227, 33420), (230, 33429), (232, 33435), (236, 33441), (247, 33474), (249, 33477), (255, 33525), (258, 33537), (262, 33555), (272, 33612), (276, 33630), (281, 33648), (283, 33657), (286, 33672), (296, 33726),

Gene: Tyson_35 Start: 30285, Stop: 31592, Start Num: 39
Candidate Starts for Tyson_35:
(Start: 39 @30285 has 77 MA's), (55, 30375), (57, 30381), (71, 30474), (103, 30663), (104, 30672), (107, 30684), (125, 30759), (127, 30771), (128, 30783), (129, 30786), (132, 30801), (138, 30828), (161, 30954), (172, 31020), (175, 31041), (225, 31224), (226, 31230), (238, 31260), (249, 31302), (269, 31410), (272, 31440), (283, 31485), (287, 31503), (291, 31527), (293, 31539),

Gene: UPIE_36 Start: 30283, Stop: 31590, Start Num: 39
Candidate Starts for UPIE_36:

(Start: 39 @30283 has 77 MA's), (55, 30373), (57, 30379), (71, 30472), (103, 30661), (104, 30670), (107, 30682), (125, 30757), (127, 30769), (128, 30781), (129, 30784), (132, 30799), (138, 30826), (161, 30952), (172, 31018), (175, 31039), (225, 31222), (226, 31228), (238, 31258), (249, 31300), (269, 31408), (272, 31438), (274, 31444), (283, 31483), (287, 31501), (291, 31525), (293, 31537),

Gene: UncleRicky_43 Start: 32755, Stop: 34056, Start Num: 42
Candidate Starts for UncleRicky_43:
(Start: 42 @32755 has 163 MA's), (54, 32821), (60, 32875), (62, 32884), (65, 32902), (79, 32971), (80, 32983), (103, 33121), (125, 33193), (128, 33217), (131, 33232), (134, 33241), (143, 33295), (152, 33328), (156, 33349), (175, 33460), (185, 33535), (211, 33646), (213, 33649), (225, 33688), (226, 33694), (227, 33697), (230, 33706), (232, 33712), (236, 33718), (247, 33751), (249, 33754), (255, 33802), (258, 33814), (262, 33832), (267, 33853), (272, 33889), (276, 33907), (281, 33925), (286, 33949), (296, 34003),

Gene: Underpass_38 Start: 31657, Stop: 32964, Start Num: 39
Candidate Starts for Underpass_38:
(Start: 19 @31612 has 1 MA's), (Start: 39 @31657 has 77 MA's), (Start: 53 @31729 has 2 MA's), (55, 31744), (63, 31807), (71, 31843), (104, 32041), (131, 32167), (161, 32323), (166, 32356), (173, 32392), (175, 32410), (177, 32419), (226, 32602), (238, 32632), (247, 32671), (249, 32674), (257, 32734), (259, 32740), (265, 32764), (268, 32779), (269, 32782), (279, 32842), (283, 32857), (287, 32875), (292, 32905), (293, 32911),

Gene: Unicorn_42 Start: 31819, Stop: 33198, Start Num: 38
Candidate Starts for Unicorn_42:
(Start: 38 @31819 has 22 MA's), (Start: 53 @31894 has 2 MA's), (55, 31909), (60, 31951), (74, 32026), (77, 32044), (79, 32050), (84, 32083), (88, 32098), (103, 32197), (104, 32206), (105, 32209), (161, 32464), (166, 32497), (174, 32539), (175, 32551), (177, 32560), (192, 32635), (207, 32695), (214, 32716), (222, 32743), (224, 32749), (226, 32758), (255, 32884), (258, 32896), (262, 32914), (279, 33004), (314, 33163),

Gene: Veteran_41 Start: 31613, Stop: 32902, Start Num: 42
Candidate Starts for Veteran_41:
(Start: 42 @31613 has 163 MA's), (54, 31679), (60, 31733), (65, 31760), (79, 31829), (80, 31841), (81, 31844), (103, 31979), (125, 32051), (128, 32075), (131, 32090), (134, 32099), (143, 32153), (152, 32186), (156, 32207), (175, 32318), (185, 32393), (211, 32504), (213, 32507), (226, 32552), (227, 32555), (230, 32564), (232, 32570), (236, 32576), (247, 32609), (249, 32612), (255, 32660), (258, 32672), (262, 32690), (267, 32711), (272, 32747), (276, 32765), (281, 32783), (283, 32792), (286, 32807), (296, 32861),

Gene: Vetrix_38 Start: 31662, Stop: 32969, Start Num: 39
Candidate Starts for Vetrix_38:
(Start: 19 @31617 has 1 MA's), (Start: 39 @31662 has 77 MA's), (Start: 53 @31734 has 2 MA's), (55, 31749), (71, 31848), (104, 32046), (131, 32172), (161, 32328), (166, 32361), (173, 32397), (175, 32415), (177, 32424), (226, 32607), (238, 32637), (247, 32676), (257, 32739), (259, 32745), (265, 32769), (268, 32784), (269, 32787), (279, 32847), (283, 32862), (287, 32880), (292, 32910), (293, 32916),

Gene: Vivum_46 Start: 32719, Stop: 34017, Start Num: 42
Candidate Starts for Vivum_46:
(Start: 42 @32719 has 163 MA's), (54, 32785), (60, 32839), (62, 32848), (65, 32866), (79, 32935), (80, 32947), (103, 33085), (125, 33157), (128, 33181), (131, 33196), (134, 33205), (143, 33259), (152, 33292), (156, 33313), (175, 33424), (185, 33499), (211, 33610), (213, 33613), (225, 33652), (226, 33658), (227, 33661), (230, 33670), (232, 33676), (236, 33682), (247, 33715), (249, 33718), (255,

33766), (258, 33778), (262, 33796), (267, 33817), (272, 33853), (276, 33871), (281, 33889), (283, 33898), (286, 33913), (296, 33967),

Gene: Wamburgrxpress_36 Start: 30298, Stop: 31605, Start Num: 39
Candidate Starts for Wamburgrxpress_36:
(Start: 39 @30298 has 77 MA's), (55, 30388), (57, 30394), (71, 30487), (103, 30676), (104, 30685), (107, 30697), (125, 30772), (127, 30784), (128, 30796), (129, 30799), (132, 30814), (138, 30841), (161, 30967), (172, 31033), (175, 31054), (225, 31237), (226, 31243), (238, 31273), (249, 31315), (269, 31423), (272, 31453), (274, 31459), (283, 31498), (287, 31516), (291, 31540), (293, 31552),

Gene: Whirlwind_37 Start: 31644, Stop: 32936, Start Num: 39
Candidate Starts for Whirlwind_37:
(Start: 39 @31644 has 77 MA's), (Start: 53 @31719 has 2 MA's), (54, 31725), (55, 31734), (104, 32031), (128, 32127), (136, 32160), (157, 32286), (161, 32298), (173, 32367), (226, 32574), (243, 32616), (249, 32646), (257, 32706), (268, 32751), (269, 32754), (272, 32784), (283, 32829), (287, 32847), (291, 32871), (293, 32883),

Gene: Whitney_50 Start: 34749, Stop: 35948, Start Num: 42
Candidate Starts for Whitney_50:
(Start: 26 @34710 has 1 MA's), (Start: 42 @34749 has 163 MA's), (60, 34869), (67, 34905), (73, 34938), (78, 34965), (87, 35010), (94, 35058), (95, 35061), (103, 35109), (118, 35175), (126, 35196), (138, 35259), (144, 35295), (183, 35502), (194, 35553), (199, 35571), (216, 35607), (217, 35613), (222, 35628), (223, 35631), (235, 35637), (249, 35673), (273, 35802), (276, 35817), (279, 35829), (281, 35835), (283, 35844), (288, 35865), (302, 35931), (305, 35940),

Gene: Whitty_34 Start: 27804, Stop: 29102, Start Num: 23
Candidate Starts for Whitty_34:
(Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: Whouxphf_42 Start: 31928, Stop: 33229, Start Num: 42
Candidate Starts for Whouxphf_42:
(Start: 42 @31928 has 163 MA's), (54, 31994), (60, 32048), (62, 32057), (65, 32075), (79, 32144), (80, 32156), (103, 32294), (128, 32390), (131, 32405), (134, 32414), (135, 32417), (143, 32468), (152, 32501), (156, 32522), (175, 32633), (185, 32708), (211, 32819), (213, 32822), (225, 32861), (226, 32867), (227, 32870), (230, 32879), (232, 32885), (236, 32891), (247, 32924), (249, 32927), (255, 32975), (258, 32987), (262, 33005), (267, 33026), (272, 33062), (276, 33080), (281, 33098), (283, 33107), (286, 33122), (296, 33176),

Gene: Wigglewiggle_38 Start: 31688, Stop: 32995, Start Num: 39
Candidate Starts for Wigglewiggle_38:
(Start: 19 @31643 has 1 MA's), (Start: 39 @31688 has 77 MA's), (Start: 53 @31760 has 2 MA's), (55, 31775), (63, 31838), (71, 31874), (104, 32072), (131, 32198), (161, 32354), (166, 32387), (173, 32423), (175, 32441), (177, 32450), (226, 32633), (238, 32663), (247, 32702), (249, 32705), (257, 32765), (259, 32771), (265, 32795), (268, 32810), (269, 32813), (279, 32873), (283, 32888), (287, 32906), (292, 32936), (293, 32942),

Gene: Wilder_38 Start: 31661, Stop: 32968, Start Num: 39
Candidate Starts for Wilder_38:

(Start: 19 @31616 has 1 MA's), (Start: 39 @31661 has 77 MA's), (Start: 53 @31733 has 2 MA's), (55, 31748), (63, 31811), (71, 31847), (104, 32045), (131, 32171), (161, 32327), (166, 32360), (173, 32396), (175, 32414), (177, 32423), (226, 32606), (238, 32636), (247, 32675), (249, 32678), (257, 32738), (259, 32744), (265, 32768), (268, 32783), (269, 32786), (279, 32846), (283, 32861), (287, 32879), (292, 32909), (293, 32915),

Gene: Winky_38 Start: 31656, Stop: 32963, Start Num: 39
Candidate Starts for Winky_38:
(Start: 19 @31611 has 1 MA's), (Start: 39 @31656 has 77 MA's), (Start: 53 @31728 has 2 MA's), (55, 31743), (63, 31806), (71, 31842), (72, 31845), (104, 32040), (131, 32166), (161, 32322), (166, 32355), (173, 32391), (175, 32409), (177, 32418), (226, 32601), (238, 32631), (247, 32670), (249, 32673), (257, 32733), (259, 32739), (265, 32763), (268, 32778), (269, 32781), (279, 32841), (283, 32856), (287, 32874), (292, 32904),

Gene: Wintermute_45 Start: 33680, Stop: 34945, Start Num: 27
Candidate Starts for Wintermute_45:
(Start: 19 @33659 has 1 MA's), (Start: 27 @33680 has 16 MA's), (30, 33692), (Start: 42 @33710 has 163 MA's), (Start: 53 @33767 has 2 MA's), (Start: 59 @33821 has 2 MA's), (63, 33845), (77, 33914), (88, 33965), (103, 34064), (104, 34073), (107, 34085), (128, 34166), (135, 34193), (175, 34415), (177, 34424), (178, 34433), (192, 34484), (208, 34547), (230, 34619), (234, 34628), (249, 34676), (267, 34766), (279, 34832), (280, 34835), (286, 34862), (288, 34868), (291, 34889), (293, 34901),

Gene: Wyatt2_36 Start: 30284, Stop: 31591, Start Num: 39
Candidate Starts for Wyatt2_36:
(Start: 39 @30284 has 77 MA's), (55, 30374), (57, 30380), (71, 30473), (103, 30662), (104, 30671), (107, 30683), (125, 30758), (127, 30770), (128, 30782), (129, 30785), (132, 30800), (138, 30827), (161, 30953), (172, 31019), (175, 31040), (225, 31223), (226, 31229), (238, 31259), (249, 31301), (269, 31409), (272, 31439), (283, 31484), (287, 31502), (291, 31526), (293, 31538),

Gene: Ximenita_46 Start: 32802, Stop: 34190, Start Num: 38
Candidate Starts for Ximenita_46:
(Start: 38 @32802 has 22 MA's), (Start: 53 @32880 has 2 MA's), (55, 32895), (60, 32937), (77, 33030), (88, 33084), (103, 33183), (104, 33192), (105, 33195), (174, 33525), (175, 33537), (177, 33546), (192, 33621), (207, 33681), (214, 33702), (224, 33735), (226, 33744), (262, 33900), (279, 33990), (314, 34149), (317, 34176),

Gene: Y10_44 Start: 33595, Stop: 34860, Start Num: 27
Candidate Starts for Y10_44:
(Start: 19 @33574 has 1 MA's), (Start: 27 @33595 has 16 MA's), (30, 33607), (Start: 42 @33625 has 163 MA's), (Start: 53 @33682 has 2 MA's), (Start: 59 @33736 has 2 MA's), (63, 33760), (77, 33829), (88, 33880), (103, 33979), (104, 33988), (107, 34000), (135, 34108), (175, 34330), (177, 34339), (178, 34348), (192, 34399), (208, 34462), (234, 34543), (249, 34591), (267, 34681), (272, 34717), (279, 34747), (280, 34750), (283, 34762), (286, 34777), (288, 34783), (291, 34804), (293, 34816),

Gene: Y2_44 Start: 33595, Stop: 34860, Start Num: 27
Candidate Starts for Y2_44:
(Start: 19 @33574 has 1 MA's), (Start: 27 @33595 has 16 MA's), (30, 33607), (Start: 42 @33625 has 163 MA's), (Start: 53 @33682 has 2 MA's), (Start: 59 @33736 has 2 MA's), (63, 33760), (77, 33829), (88, 33880), (103, 33979), (104, 33988), (107, 34000), (135, 34108), (175, 34330), (177, 34339), (178, 34348), (192, 34399), (208, 34462), (234, 34543), (249, 34591), (267, 34681), (272, 34717), (279, 34747), (280, 34750), (283, 34762), (286, 34777), (288, 34783), (291, 34804), (293, 34816),

Gene: YasnayaPolyana_45 Start: 33670, Stop: 34794, Start Num: 59

Candidate Starts for YasnayaPolyana_45:
(Start: 19 @33508 has 1 MA's), (Start: 27 @33529 has 16 MA's), (30, 33541), (Start: 42 @33559 has 163 MA's), (Start: 53 @33616 has 2 MA's), (Start: 59 @33670 has 2 MA's), (63, 33694), (77, 33763), (88, 33814), (103, 33913), (104, 33922), (107, 33934), (128, 34015), (135, 34042), (175, 34264), (177, 34273), (178, 34282), (192, 34333), (208, 34396), (230, 34468), (234, 34477), (249, 34525), (267, 34615), (279, 34681), (280, 34684), (286, 34711), (288, 34717), (291, 34738), (293, 34750),

Gene: Yorick_40 Start: 31944, Stop: 33233, Start Num: 42
Candidate Starts for Yorick_40:
(Start: 42 @31944 has 163 MA's), (54, 32010), (60, 32064), (62, 32073), (65, 32091), (79, 32160), (80, 32172), (103, 32310), (125, 32382), (128, 32406), (131, 32421), (134, 32430), (143, 32484), (152, 32517), (156, 32538), (175, 32649), (185, 32724), (211, 32835), (213, 32838), (225, 32877), (226, 32883), (227, 32886), (230, 32895), (232, 32901), (236, 32907), (247, 32940), (249, 32943), (255, 32991), (258, 33003), (262, 33021), (267, 33042), (272, 33078), (276, 33096), (281, 33114), (283, 33123), (286, 33138), (296, 33192),

Gene: Yoshi_54 Start: 34225, Stop: 32954, Start Num: 36
Candidate Starts for Yoshi_54:
(Start: 34 @34228 has 2 MA's), (Start: 36 @34225 has 4 MA's), (Start: 53 @34150 has 2 MA's), (79, 33997), (92, 33913), (104, 33844), (117, 33796), (125, 33778), (131, 33739), (132, 33736), (137, 33712), (147, 33661), (154, 33631), (157, 33613), (158, 33610), (166, 33568), (175, 33514), (177, 33505), (181, 33475), (182, 33466), (198, 33421), (202, 33412), (204, 33406), (209, 33385), (210, 33382), (211, 33373), (213, 33370), (227, 33322), (230, 33313), (240, 33292), (249, 33253), (251, 33226), (258, 33190), (261, 33178), (267, 33151), (269, 33145), (272, 33115), (276, 33097), (281, 33079), (283, 33070), (288, 33049), (289, 33040), (296, 33001), (299, 32992), (300, 32989), (302, 32983), (306, 32962),

Gene: Yuna_46 Start: 33692, Stop: 35065, Start Num: 38
Candidate Starts for Yuna_46:
(15, 33647), (Start: 38 @33692 has 22 MA's), (Start: 53 @33767 has 2 MA's), (60, 33824), (77, 33917), (84, 33956), (85, 33959), (88, 33971), (103, 34070), (104, 34079), (127, 34160), (164, 34358), (174, 34409), (175, 34421), (177, 34430), (192, 34508), (207, 34568), (214, 34589), (225, 34625), (249, 34706), (262, 34787), (269, 34817), (279, 34877), (313, 35021),

Gene: Zakai_38 Start: 31913, Stop: 33220, Start Num: 39
Candidate Starts for Zakai_38:
(Start: 19 @31868 has 1 MA's), (Start: 39 @31913 has 77 MA's), (Start: 53 @31985 has 2 MA's), (55, 32000), (63, 32063), (71, 32099), (104, 32297), (131, 32423), (161, 32579), (166, 32612), (173, 32648), (175, 32666), (177, 32675), (226, 32858), (238, 32888), (247, 32927), (249, 32930), (257, 32990), (259, 32996), (265, 33020), (268, 33035), (269, 33038), (279, 33098), (283, 33113), (287, 33131), (292, 33161), (293, 33167),

Gene: Zapner_55 Start: 33701, Stop: 34930, Start Num: 47
Candidate Starts for Zapner_55:
(Start: 47 @33701 has 2 MA's), (62, 33818), (79, 33905), (82, 33929), (103, 34052), (104, 34061), (117, 34112), (118, 34115), (120, 34118), (125, 34130), (128, 34154), (129, 34157), (141, 34220), (154, 34277), (159, 34301), (164, 34328), (166, 34337), (174, 34379), (175, 34391), (177, 34400), (203, 34496), (210, 34526), (211, 34535), (213, 34538), (214, 34541), (225, 34577), (230, 34595), (247, 34649), (249, 34652), (251, 34679), (254, 34700), (259, 34718), (262, 34733), (272, 34778), (273, 34781), (281, 34814), (283, 34823), (286, 34838), (290, 34859), (291, 34865), (292, 34871), (296, 34892),

Gene: Zaria_36 Start: 30299, Stop: 31606, Start Num: 39

Candidate Starts for Zaria_36:
(Start: 39 @30299 has 77 MA's), (55, 30389), (57, 30395), (71, 30488), (103, 30677), (104, 30686), (107, 30698), (125, 30773), (127, 30785), (128, 30797), (129, 30800), (132, 30815), (138, 30842), (161, 30968), (172, 31034), (175, 31055), (225, 31238), (226, 31244), (238, 31274), (249, 31316), (269, 31424), (272, 31454), (283, 31499), (287, 31517), (291, 31541), (293, 31553),

Gene: ZenTime222_33 Start: 27813, Stop: 29102, Start Num: 26
Candidate Starts for ZenTime222_33:
(Start: 14 @27780 has 1 MA's), (Start: 23 @27804 has 4 MA's), (Start: 26 @27813 has 1 MA's), (Start: 36 @27837 has 4 MA's), (Start: 43 @27855 has 13 MA's), (Start: 53 @27915 has 2 MA's), (79, 28068), (88, 28116), (104, 28224), (117, 28269), (118, 28272), (127, 28299), (128, 28311), (131, 28326), (161, 28485), (170, 28548), (211, 28710), (228, 28764), (234, 28779), (238, 28788), (249, 28833), (252, 28863), (259, 28899), (281, 28995), (283, 29004), (302, 29091),

Gene: Zerg_42 Start: 31944, Stop: 33233, Start Num: 42
Candidate Starts for Zerg_42:
(Start: 42 @31944 has 163 MA's), (54, 32010), (60, 32064), (62, 32073), (65, 32091), (79, 32160), (80, 32172), (103, 32310), (128, 32406), (131, 32421), (134, 32430), (143, 32484), (152, 32517), (156, 32538), (175, 32649), (185, 32724), (211, 32835), (213, 32838), (225, 32877), (226, 32883), (227, 32886), (230, 32895), (232, 32901), (236, 32907), (247, 32940), (249, 32943), (255, 32991), (258, 33003), (262, 33021), (267, 33042), (272, 33078), (276, 33096), (281, 33114), (283, 33123), (286, 33138), (296, 33192),

Gene: ZhongYanYuan_37 Start: 31494, Stop: 32801, Start Num: 39
Candidate Starts for ZhongYanYuan_37:
(Start: 19 @31449 has 1 MA's), (Start: 39 @31494 has 77 MA's), (Start: 53 @31566 has 2 MA's), (63, 31644), (76, 31716), (79, 31725), (103, 31869), (104, 31878), (131, 32004), (161, 32160), (166, 32193), (173, 32229), (175, 32247), (177, 32256), (226, 32439), (238, 32469), (247, 32508), (249, 32511), (257, 32571), (259, 32577), (267, 32613), (268, 32616), (269, 32619), (274, 32655), (279, 32679), (283, 32694), (287, 32712), (292, 32742),