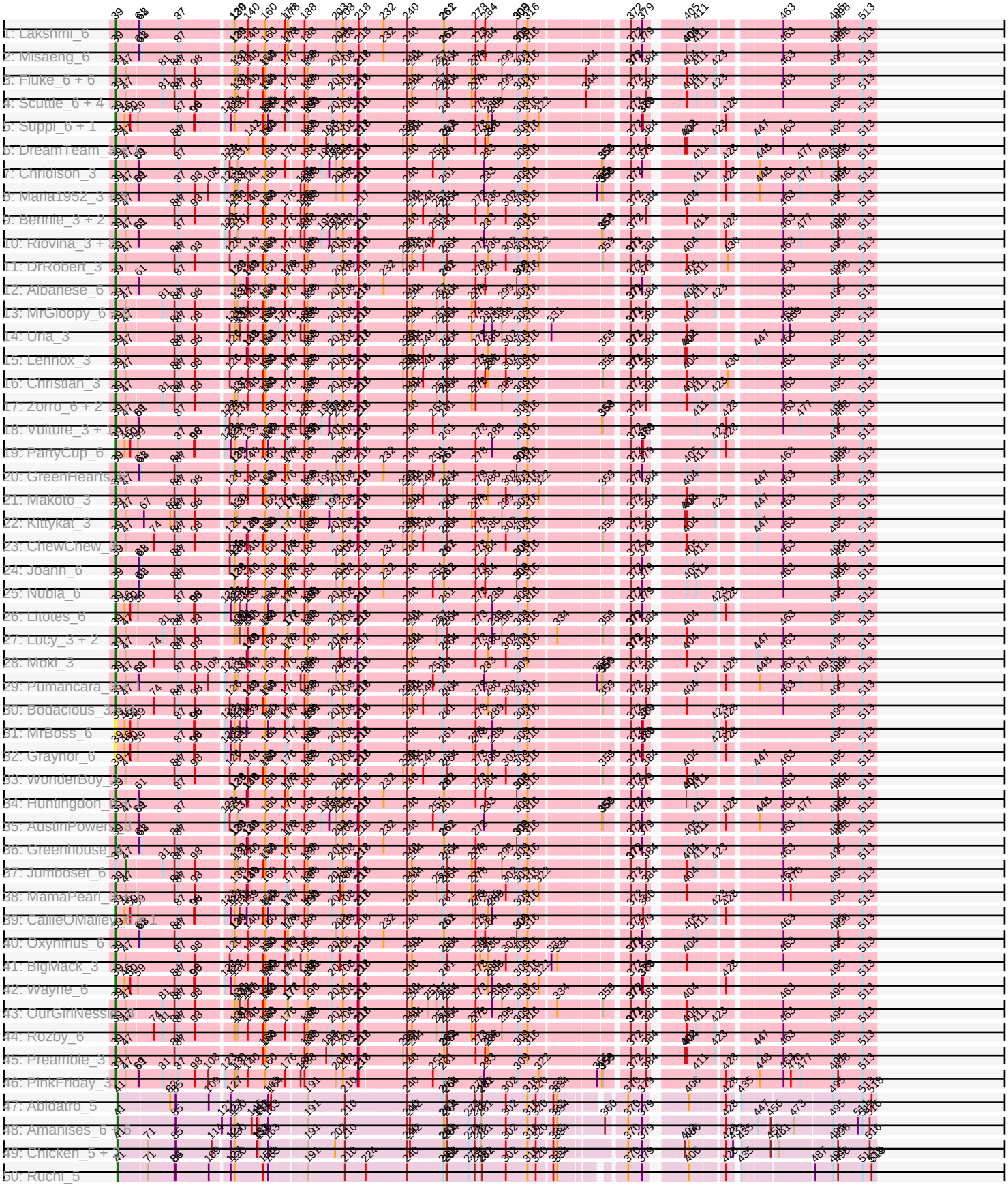
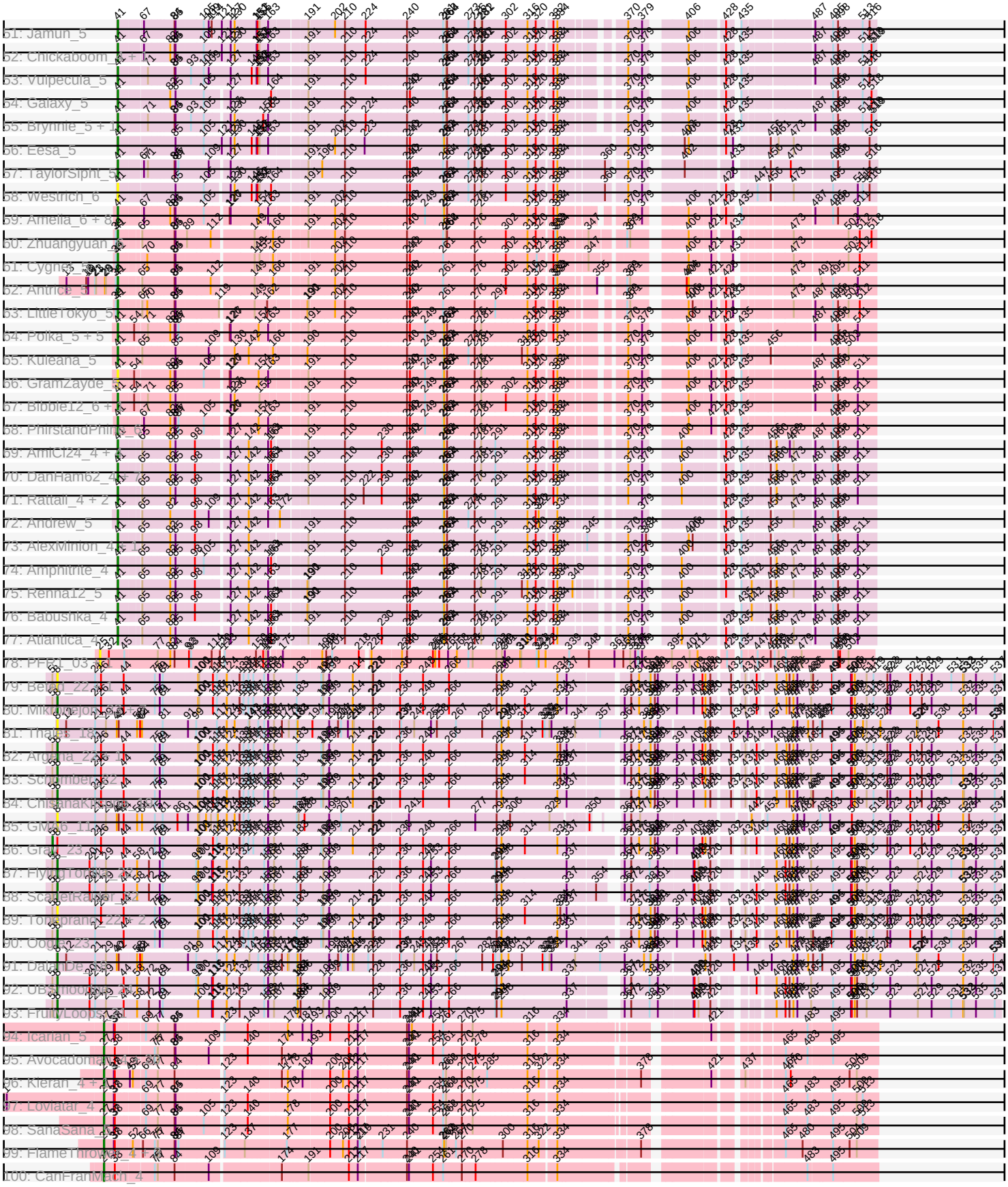
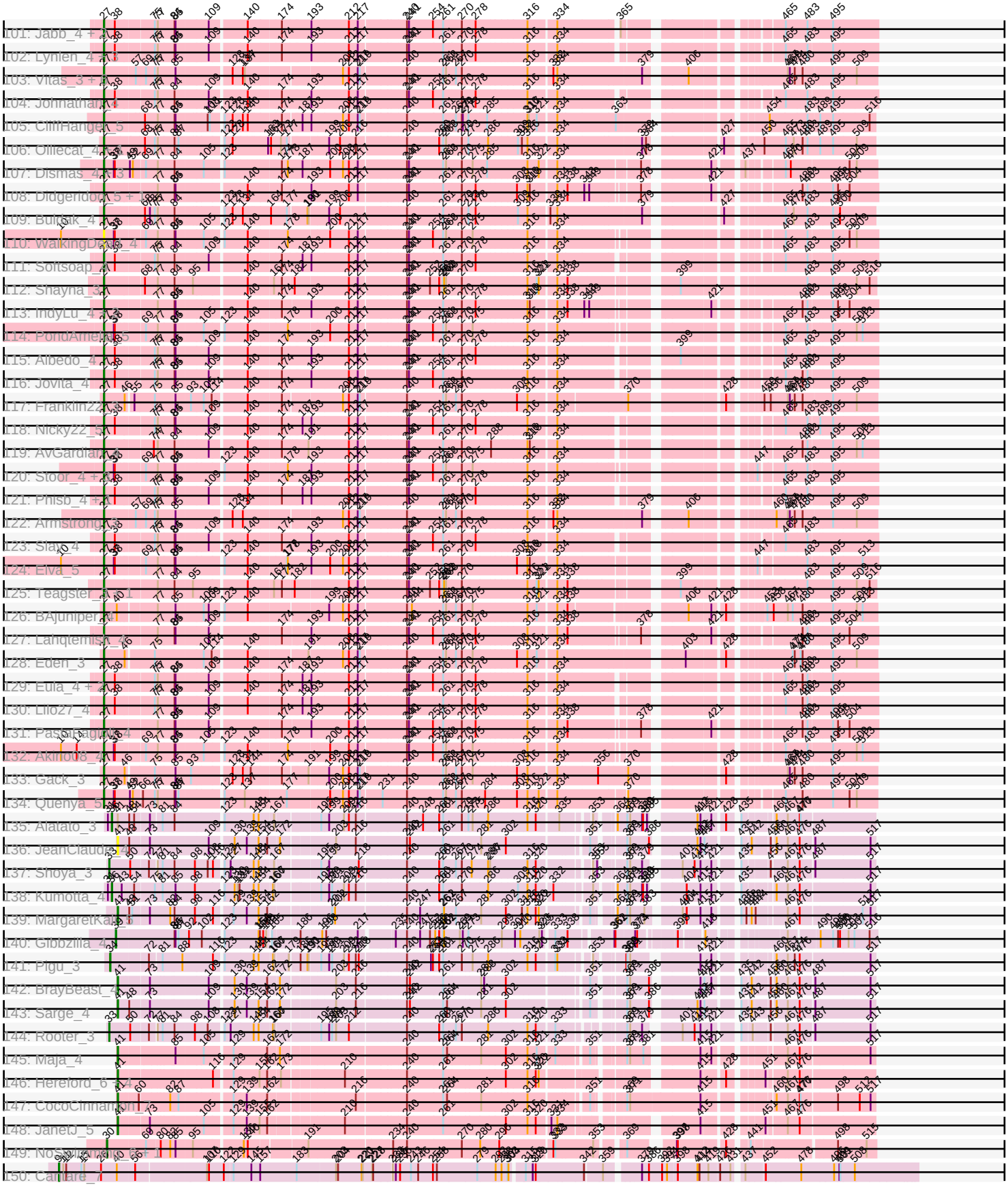
Pham 347177



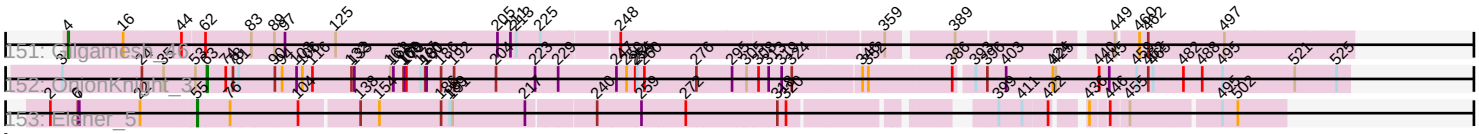
Pham 347177



Pham 347177



Pham 347177



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 347177 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347177 has 297 members, 34 are drafts.

Phages represented in each track:
- Track 1 : Lakshmi_6
- Track 2 : Misaeng_6
- Track 3 : Fluke_6, Carpal_6, Riverdale_6, TattModd_6, Vallejo_6, Savage2526_6, Beethoven_6
- Track 4 : Scuttle_6, BrotherBLo_6, Korra_6, Kalizoi_6, Immaculata_6
- Track 5 : Suppi_6, Canowicakte_6
- Track 6 : DreamTeam_3, Gisselle_3
- Track 7 : Chridison_3
- Track 8 : Maria1952_3, KingBob_3, Herb_3, Sergei_3, Temper16_3, Daiboju_3
- Track 9 : Bennie_3, HeadNerd_3, Huckleberry_3
- Track 10 : Riovina_3, OMalley_3, Eunoia_3, Aledel_3
- Track 11 : DrRobert_3
- Track 12 : Albanese_6
- Track 13 : MrGloopy_6, RAP15_6, MeganNoll_6, Wawa_6, Potatoes_6, Cholula_6
- Track 14 : Urla_3
- Track 15 : Lennox_3
- Track 16 : Christian_3
- Track 17 : Zorro_6, Dino_6, Glenn_6
- Track 18 : Vulture_3, HunterDalle_3
- Track 19 : PartyCup_6
- Track 20 : GreenHearts_6
- Track 21 : Makoto_3
- Track 22 : Kittykat_3
- Track 23 : ChewChew_3
- Track 24 : Joann_6
- Track 25 : Nubia_6
- Track 26 : Litotes_6
- Track 27 : Lucy_3, PitaDog_3, Pterodactyl_3
- Track 28 : Moki_3
- Track 29 : Pumancara_3, Supakev_3
- Track 30 : Bodacious_3, CristinaYang_3, LilStuart_3, Nancia_3, Lasagna_3
- Track 31 : MrBoss_6
- Track 32 : Graynor_6

• Track 33 : WonderBoy_3
• Track 34 : Huntingdon_6, RcigaStruga_6
• Track 35 : AustinPowers_3
• Track 36 : Greenhouse_6
• Track 37 : Jumboset_6
• Track 38 : MamaPearl_3, EstebanJulior_3
• Track 39 : CallieOMalley_6, AppleCider_6
• Track 40 : Oxynfrius_6
• Track 41 : BigMack_3
• Track 42 : Wayne_6
• Track 43 : OurGirlNessie_3
• Track 44 : Rozby_6
• Track 45 : Preamble_3
• Track 46 : PinkFriday_3
• Track 47 : Abidatro_5
• Track 48 : Amanises_6, Pelletreau_6, KendraB23_6, Orcanus_5, Toad24_6, Gravel_6, Shen_6
• Track 49 : Chicken_5, Niblet_5, Zixiang_5
• Track 50 : Ruchi_5
• Track 51 : Jamun_5
• Track 52 : Chickaboom_4, WileyE_4
• Track 53 : Vulpecula_5
• Track 54 : Galaxy_5
• Track 55 : Brynnie_5, Basilisk_5
• Track 56 : Eesa_5
• Track 57 : TaylorSipht_5
• Track 58 : Westrich_6
• Track 59 : Amelia_6, Jerole_6, Cote_6, BadWillHunting_6, Lunar_6, Melons_6, Pineda_6, Bedetta_6, Damocles_6
• Track 60 : Zhuangyuan_6
• Track 61 : Cygnet_5
• Track 62 : Antrice_5
• Track 63 : LittleTokyo_5
• Track 64 : Polka_5, Coral_5, Daob_6, Kepler_5, Colusalem_5, OtsoOtso_5
• Track 65 : Kuleana_5
• Track 66 : GramZayde_5
• Track 67 : Bibble12_6, HannahPhantana_6
• Track 68 : PhirstandPhine_6
• Track 69 : AmiCi24_4, Oppalora_4, Camara_4, KHumphrey_4, Glotell_4
• Track 70 : DanHam62_4, Fingolfin_4, PhluffyCoco_4, HamCheese_4, Juno112_4, Laphuphu24k_4, AdoptaAdorbs_4, RedFox_4
• Track 71 : Rattail_4, Azaz_4, Leona_4
• Track 72 : Andrew_5
• Track 73 : AlexMinion_4, StuartMinion_4
• Track 74 : Amphitrite_4
• Track 75 : Renna12_5
• Track 76 : Babushka_4
• Track 77 : Atlantica_4
• Track 78 : PFR1_03, PFR2_03
• Track 79 : Beted_22, Lenoshki_22
• Track 80 : Mikronejon_23, EmoNemo_22, Aloki_23, Kabocha_24, Hanem_23, Twin_22, Chidiebere_23, Pakusa_22
• Track 81 : Thales_18

• Track 82 : Argena_22, Farrylious_22
• Track 83 : Schomber_22
• Track 84 : ChisanaKitsune_19
• Track 85 : GMA6_11
• Track 86 : Gray_23
• Track 87 : FlyingTortilla_22
• Track 88 : ScarletRaider_22
• Track 89 : Toneprano_22, Amoonguss_22, MintFritos_22
• Track 90 : Oogie_23
• Track 91 : DalanDe_18
• Track 92 : UBSmoodge_24
• Track 93 : FruityLoops_21
• Track 94 : Icarian_5
• Track 95 : Avocadoman_4, Albright_4, CroZenni_4, Doobus_4, Arroyo_5, Finalfrontier_5, Burritobowl_4, Swervy_4, TukTuk_4, BelmontSKP_5, Abigail_4, Solea_5, AylexOG_5, LimaBean_4, SarBear_4, DickRichards_4, PhigPhack_4, AnnaLie_5, Bengal_4, Cashington_4, Milomuff_5
• Track 96 : Kieran_4, Sharkboy_4
• Track 97 : Loviatar_4
• Track 98 : SanaSana_5
• Track 99 : FlameThrower_4, Bachaco_4, Celaena_4, Katzastrophic_4
• Track 100 : CanFranMach_4
• Track 101 : Jabb_4, CupcakePrincess_4, MsUbiquitous_4
• Track 102 : Lynlen_4, SirBeanington_4, Kenzers_4, SansAfet_4
• Track 103 : Vitas_3, Clayda5_3, Bernstein_3, Brahms_3, Rollins_3, Coltrane_3, Skylord_3
• Track 104 : Johnathan_4
• Track 105 : CliffHanger_5
• Track 106 : Olliecat_4, Squircle_4
• Track 107 : Dismas_4, ChiliPepper_4, Rona_4, Kamdara_4
• Track 108 : Didgeridoo_5, BabyDaisy_5
• Track 109 : Buldak_4
• Track 110 : WalkingDead_4
• Track 111 : Softsoap_4
• Track 112 : Shayna_3
• Track 113 : IndyLu_4, Grist_4, Kate33_4
• Track 114 : PondAmelia_5
• Track 115 : Albedo_4
• Track 116 : Jovita_4
• Track 117 : Franklin22_3
• Track 118 : Nicky22_5
• Track 119 : AvGardian_4
• Track 120 : Stoor_4, BabyYoda_4, Stromboli_4, DirtyBubble_4
• Track 121 : Phisb_4, BubbaBear_4
• Track 122 : Armstrong_3
• Track 123 : Slay_4
• Track 124 : Elva_5
• Track 125 : Teagster_3, SunnyD_3
• Track 126 : BAjuniper_4
• Track 127 : Lahqtemish_4
• Track 128 : Eden_3
• Track 129 : Eula_4, QMacho_5, Pecas_4
• Track 130 : Lilo27_4

• Track 131 : PastaFagioli_4
• Track 132 : Akino08_4
• Track 133 : Gack_3
• Track 134 : Quenya_5
• Track 135 : Alatato_3
• Track 136 : JeanClaude_4
• Track 137 : Shoya_3
• Track 138 : Kumotta_4
• Track 139 : MargaretKali_5
• Track 140 : Gibbzilla_4
• Track 141 : Pigu_3
• Track 142 : BrayBeast_4
• Track 143 : Sarge_4
• Track 144 : Rooter_3
• Track 145 : Maja_4
• Track 146 : Hereford_6, Morrey_7, EvenBluerMoon_5, Aoka_5, PrairieDogTown_5
• Track 147 : CocoCinnamon_7
• Track 148 : JanetJ_5
• Track 149 : NoSwimming_6, Scotia_6
• Track 150 : Cantare_7
• Track 151 : Gilgamesh_46
• Track 152 : OnionKnight_3
• Track 153 : Elener_5

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

The start number called the most often in the published annotations is 27, it was called in 86 of the 263 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_4, Akino08_4, Albedo_4, Albright_4, AnnaLie_5, Armstrong_3, Arroyo_5, AvGardian_4, Avocadoman_4, AylexOG_5, BAjuniper_4, BabyDaisy_5, BabyYoda_4, Bachaco_4, BelmontSKP_5, Bengal_4, Bernstein_3, Brahms_3, BubbaBear_4, Buldak_4, Burritobowl_4, CanFranMach_4, Cashington_4, Celaena_4, ChiliPepper_4, Clayda5_3, CliffHanger_5, Coltrane_3, CroZenni_4, CupcakePrincess_4, DickRichards_4, Didgeridoo_5, DirtyBubble_4, Dismas_4, Doobus_4, Eden_3, Elva_5, Eula_4, Finalfrontier_5, FlameThrower_4, Franklin22_3, Gack_3, Grist_4, Icarian_5, IndyLu_4, Jabb_4, Johnathan_4, Jovita_4, Kamdara_4, Kate33_4, Katzastrophic_4, Kenzers_4, Kieran_4, Lahqtemish_4, Lilo27_4, LimaBean_4, Loviatar_4, Lynlen_4, Milomuff_5, MsUbiquitous_4, Nicky22_5, Olliecat_4, PastaFagioli_4, Pecas_4, PhigPhack_4, Phisb_4, PondAmelia_5, QMacho_5, Quenya_5, Rollins_3, Rona_4, SanaSana_5, SansAfet_4, SarBear_4, Sharkboy_4, Shayna_3, SirBeanington_4, Skylord_3, Slay_4, Softsoap_4, Solea_5, Squircle_4, Stoor_4, Stromboli_4, SunnyD_3, Swervy_4, Teagster_3, TukTuk_4, Vitas_3, WalkingDead_4,

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

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

• Abidatro_5, AdoptaAdorbs_4, Alatato_3, Albanese_6, Aledel_3, AlexMinion_4, Aloki_23, Amanises_6, Amelia_6, AmiCi24_4, Amoonguss_22, Amphitrite_4, Andrew_5, Antrice_5, Aoka_5, AppleCider_6, Argena_22, Atlantica_4, AustinPowers_3, Azaz_4, Babushka_4, BadWillHunting_6, Basilisk_5, Bedetta_6, Beethoven_6, Bennie_3, Beted_22, Bibble12_6, BigMack_3, Bodacious_3, BrayBeast_4, BrotherBLo_6, Brynnie_5, CallieOMalley_6, Camara_4, Canowicakte_6, Cantare_7, Carpal_6, ChewChew_3, Chickaboom_4, Chicken_5, Chidiebere_23, ChisanaKitsune_19, Cholula_6, Chridison_3, Christian_3, CocoCinnamon_7, Colusalem_5, Coral_5, Cote_6, CristinaYang_3, Cygnet_5, Daiboju_3, DalanDe_18, Damocles_6, DanHam62_4, Daob_6, Dino_6, DrRobert_3, DreamTeam_3, Eesa_5, Elener_5, EmoNemo_22, EstebanJulior_3, Eunoia_3, EvenBluerMoon_5, Farrylious_22, Fingolfin_4, Fluke_6, FlyingTortilla_22, FruityLoops_21, GMA6_11, Galaxy_5, Gibbzilla_4, Gilgamesh_46, Gisselle_3, Glenn_6, Glotell_4, GramZayde_5, Gravel_6, Gray_23, Graynor_6, GreenHearts_6, Greenhouse_6, HamCheese_4, Hanem_23, HannahPhantana_6, HeadNerd_3, Herb_3, Hereford_6, Huckleberry_3, HunterDalle_3, Huntingdon_6, Immaculata_6, Jamun_5, JanetJ_5, JeanClaude_4, Jerole_6, Joann_6, Jumboset_6, Juno112_4, KHumphrey_4, Kabocha_24, Kalizoi_6, KendraB23_6, Kepler_5, KingBob_3, Kittykat_3, Korra_6, Kuleana_5, Kumotta_4, Lakshmi_6, Laphuphu24k_4, Lasagna_3, Lennox_3, Lenoshki_22, Leona_4, LilStuart_3, Litotes_6, LittleTokyo_5, Lucy_3, Lunar_6, Maja_4, Makoto_3, MamaPearl_3, MargaretKali_5, Maria1952_3, MeganNoll_6, Melons_6, Mikronejon_23, MintFritos_22, Misaeng_6, Moki_3, Morrey_7, MrBoss_6, MrGloopy_6, Nancia_3, Niblet_5, NoSwimming_6, Nubia_6, OMalley_3, OnionKnight_3, Oogie_23, Oppalora_4, Orcanus_5, OtsoOtso_5, OurGirlNessie_3, Oxynfrius_6, PFR1_03, PFR2_03, Pakusa_22, PartyCup_6, Pelletreau_6, PhirstandPhine_6, PhluffyCoco_4, Pigu_3, Pineda_6, PinkFriday_3, PitaDog_3, Polka_5, Potatoes_6, PrairieDogTown_5, Preamble_3, Pterodactyl_3, Pumancara_3, RAP15_6, Rattail_4, RcigaStruga_6, RedFox_4, Renna12_5, Riovina_3, Riverdale_6, Rooter_3, Rozby_6, Ruchi_5, Sarge_4, Savage2526_6, ScarletRaider_22, Schomber_22, Scotia_6, Scuttle_6, Sergei_3, Shen_6, Shoya_3, StuartMinion_4, Supakev_3, Suppi_6, TattModd_6, TaylorSipht_5, Temper16_3, Thales_18, Toad24_6, Toneprano_22, Twin_22, UBSmoodge_24, Urla_3, Vallejo_6, Vulpecula_5, Vulture_3, Wawa_6, Wayne_6, Westrich_6, WileyE_4, WonderBoy_3, Zhuangyuan_6, Zixiang_5, Zorro_6,

Summary by start number:

Start 4:
• Found in 1 of 297 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gilgamesh_46 (singleton),

Start 5:
• Found in 23 of 297 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Gray_23 (DQ),

Start 8:
• Found in 26 of 297 (8.8%) of genes in pham
• Manual Annotations of this start: 14 of 263
• Called 96.2% of time when present

• Phage (with cluster) where this start called: Aloki_23 (DQ), Amoonguss_22 (DQ), Argena_22 (DQ), Beted_22 (DQ), Chidiebere_23 (DQ), ChisanaKitsune_19 (DQ), DalanDe_18 (DQ), EmoNemo_22 (DQ), Farrylious_22 (DQ), FlyingTortilla_22 (DQ), FruityLoops_21 (DQ), GMA6_11 (DQ), Hanem_23 (DQ), Kabocha_24 (DQ), Lenoshki_22 (DQ), Mikronejon_23 (DQ), MintFritos_22 (DQ), Oogie_23 (DQ), Pakusa_22 (DQ), ScarletRaider_22 (DQ), Schomber_22 (DQ), Thales_18 (DQ), Toneprano_22 (DQ), Twin_22 (DQ), UBSmoodge_24 (DQ),

Start 9:
• Found in 1 of 297 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_7 (singleton),

Start 25:
• Found in 2 of 297 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PFR1_03 (BX), PFR2_03 (BX),

Start 27:
• Found in 90 of 297 (30.3%) of genes in pham
• Manual Annotations of this start: 86 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abigail_4 (EB), Akino08_4 (EB), Albedo_4 (EB), Albright_4 (EB), AnnaLie_5 (EB), Armstrong_3 (EB), Arroyo_5 (EB), AvGardian_4 (EB), Avocadoman_4 (EB), AylexOG_5 (EB), BAjuniper_4 (EB), BabyDaisy_5 (EB), BabyYoda_4 (EB), Bachaco_4 (EB), BelmontSKP_5 (EB), Bengal_4 (EB), Bernstein_3 (EB), Brahms_3 (EB), BubbaBear_4 (EB), Buldak_4 (EB), Burritobowl_4 (EB), CanFranMach_4 (EB), Cashington_4 (EB), Celaena_4 (EB), ChiliPepper_4 (EB), Clayda5_3 (EB), CliffHanger_5 (EB), Coltrane_3 (EB), CroZenni_4 (EB), CupcakePrincess_4 (EB), DickRichards_4 (EB), Didgeridoo_5 (EB), DirtyBubble_4 (EB), Dismas_4 (EB), Doobus_4 (EB), Eden_3 (EB), Elva_5 (EB), Eula_4 (EB), Finalfrontier_5 (EB), FlameThrower_4 (EB), Franklin22_3 (EB), Gack_3 (EB), Grist_4 (EB), Icarian_5 (EB), IndyLu_4 (EB), Jabb_4 (EB), Johnathan_4 (EB), Jovita_4 (EB), Kamdara_4 (EB), Kate33_4 (EB), Katzastrophic_4 (EB), Kenzers_4 (EB), Kieran_4 (EB), Lahqtemish_4 (EB), Lilo27_4 (EB), LimaBean_4 (EB), Loviatar_4 (EB), Lynlen_4 (EB), Milomuff_5 (EB), MsUbiquitous_4 (EB), Nicky22_5 (EB), Olliecat_4 (EB), PastaFagioli_4 (EB), Pecas_4 (EB), PhigPhack_4 (EB), Phisb_4 (EB), PondAmelia_5 (EB), QMacho_5 (EB), Quenya_5 (EB), Rollins_3 (EB), Rona_4 (EB), SanaSana_5 (EB), SansAfet_4 (EB), SarBear_4 (EB), Sharkboy_4 (EB), Shayna_3 (EB), SirBeanington_4 (EB), Skylord_3 (EB), Slay_4 (EB), Softsoap_4 (EB), Solea_5 (EB), Squircle_4 (EB), Stoor_4 (EB), Stromboli_4 (EB), SunnyD_3 (EB), Swervy_4 (EB), Teagster_3 (EB), TukTuk_4 (EB), Vitas_3 (EB), WalkingDead_4 (EB),

Start 30:
• Found in 2 of 297 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoSwimming_6 (FO), Scotia_6 (FO),

Start 33:

• Found in 2 of 297 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rooter_3 (FB), Shoya_3 (FB),

Start 34:
• Found in 1 of 297 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pigu_3 (FB),

Start 36:
• Found in 2 of 297 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 263
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatato_3 (FB), Kumotta_4 (FB),

Start 39:
• Found in 91 of 297 (30.6%) of genes in pham
• Manual Annotations of this start: 84 of 263
• Called 94.5% of time when present
• Phage (with cluster) where this start called: Albanese_6 (AK), Aledel_3 (AK), AppleCider_6 (AK), AustinPowers_3 (AK), Beethoven_6 (AK), Bennie_3 (AK), BigMack_3 (AK), Bodacious_3 (AK), BrotherBLo_6 (AK), CallieOMalley_6 (AK), Canowicakte_6 (AK), Carpal_6 (AK), ChewChew_3 (AK), Cholula_6 (AK), Chridison_3 (AK), Christian_3 (AK), CristinaYang_3 (AK), Daiboju_3 (AK), Dino_6 (AK), DrRobert_3 (AK), DreamTeam_3 (AK), EstebanJulior_3 (AK), Eunoia_3 (AK), Fluke_6 (AK), Gibbzilla_4 (FB), Gisselle_3 (AK), Glenn_6 (AK), Graynor_6 (AK), GreenHearts_6 (AK), Greenhouse_6 (AK), HeadNerd_3 (AK), Herb_3 (AK), Huckleberry_3 (AK), HunterDalle_3 (AK), Huntingdon_6 (AK), Immaculata_6 (AK), Joann_6 (AK), Kalizoi_6 (AK), KingBob_3 (AK), Kittykat_3 (AK), Korra_6 (AK), Lakshmi_6 (AK), Lasagna_3 (AK), Lennox_3 (AK), LilStuart_3 (AK), Litotes_6 (AK), Lucy_3 (AK), Makoto_3 (AK), MamaPearl_3 (AK), Maria1952_3 (AK), MeganNoll_6 (AK), Misaeng_6 (AK), Moki_3 (AK), MrBoss_6 (AK), MrGloopy_6 (AK), Nancia_3 (AK), Nubia_6 (AK), OMalley_3 (AK), OurGirlNessie_3 (AK), Oxynfrius_6 (AK), PartyCup_6 (AK), PinkFriday_3 (AK), PitaDog_3 (AK), Potatoes_6 (AK), Preamble_3 (AK), Pterodactyl_3 (AK), Pumancara_3 (AK), RAP15_6 (AK), RcigaStruga_6 (AK), Riovina_3 (AK), Riverdale_6 (AK), Rozby_6 (AK), Savage2526_6 (AK), Scuttle_6 (AK), Sergei_3 (AK), Supakev_3 (AK), Suppi_6 (AK), TattModd_6 (AK), Temper16_3 (AK), Urla_3 (AK), Vallejo_6 (AK), Vulture_3 (AK), Wawa_6 (AK), Wayne_6 (AK), WonderBoy_3 (AK), Zorro_6 (AK),

Start 41:
• Found in 82 of 297 (27.6%) of genes in pham
• Manual Annotations of this start: 66 of 263
• Called 98.8% of time when present
• Phage (with cluster) where this start called: Abidatro_5 (AS1), AdoptaAdorbs_4 (AS3), AlexMinion_4 (AS3), Amanises_6 (AS1), Amelia_6 (AS2), AmiCi24_4 (AS3), Amphitrite_4 (AS3), Andrew_5 (AS3), Antrice_5 (AS2), Aoka_5 (FO), Atlantica_4 (AS3), Azaz_4 (AS3), Babushka_4 (AS3), BadWillHunting_6 (AS2), Basilisk_5 (AS1), Bedetta_6 (AS2), Bibble12_6 (AS2), BrayBeast_4 (FB), Brynnie_5 (AS1), Camara_4 (AS3), Chickaboom_4 (AS1), Chicken_5 (AS1), CocoCinnamon_7 (FO), Colusalem_5 (AS2), Coral_5 (AS2), Cote_6 (AS2), Cygnet_5 (AS2), Damocles_6 (AS2),

DanHam62_4 (AS3), Daob_6 (AS2), Eesa_5 (AS1), EvenBluerMoon_5 (FO), Fingolfin_4 (AS3), Galaxy_5 (AS1), Glotell_4 (AS3), GramZayde_5 (AS2), Gravel_6 (AS1), HamCheese_4 (AS3), HannahPhantana_6 (AS2), Hereford_6 (FO), Jamun_5 (AS1), JanetJ_5 (FO), JeanClaude_4 (FB), Jerole_6 (AS2), Juno112_4 (AS3), KHumphrey_4 (AS3), KendraB23_6 (AS1), Kepler_5 (AS2), Kuleana_5 (AS2), Laphuphu24k_4 (AS3), Leona_4 (AS3), LittleTokyo_5 (AS2), Lunar_6 (AS2), Maja_4 (FO), MargaretKali_5 (FB), Melons_6 (AS2), Morrey_7 (FO), Niblet_5 (AS1), Oppalora_4 (AS3), Orcanus_5 (AS1), OtsoOtso_5 (AS2), Pelletreau_6 (AS1), PhirstandPhine_6 (AS2), PhluffyCoco_4 (AS3), Pineda_6 (AS2), Polka_5 (AS2), PrairieDogTown_5 (FO), Rattail_4 (AS3), RedFox_4 (AS3), Renna12_5 (AS3), Ruchi_5 (AS1), Sarge_4 (FB), Shen_6 (AS1), StuartMinion_4 (AS3), TaylorSipht_5 (AS1), Toad24_6 (AS1), Vulpecula_5 (AS1), Westrich_6 (AS1), WileyE_4 (AS1), Zhuangyuan_6 (AS2), Zixiang_5 (AS1),

Start 47:
• Found in 67 of 297 (22.6%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 1.5% of time when present
• Phage (with cluster) where this start called: Jumboset_6 (AK),

Start 55:
• Found in 2 of 297 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Elener_5 (singleton),

Start 63:
• Found in 8 of 297 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 263
• Called 12.5% of time when present
• Phage (with cluster) where this start called: OnionKnight_3 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: AS3, AS2, singleton, AK, AS1, EB, FB, FO, BX, DQ,

Info for manual annotations of cluster AK:
•Start number 39 was manually annotated 83 times for cluster AK.
•Start number 47 was manually annotated 1 time for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 41 was manually annotated 18 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 41 was manually annotated 19 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 41 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster DQ:
•Start number 5 was manually annotated 1 time for cluster DQ.

•Start number 8 was manually annotated 14 times for cluster DQ.

Info for manual annotations of cluster EB:
•Start number 27 was manually annotated 86 times for cluster EB.

Info for manual annotations of cluster FB:
•Start number 33 was manually annotated 2 times for cluster FB.
•Start number 34 was manually annotated 1 time for cluster FB.
•Start number 36 was manually annotated 2 times for cluster FB.
•Start number 39 was manually annotated 1 time for cluster FB.
•Start number 41 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FO:
•Start number 30 was manually annotated 2 times for cluster FO.
•Start number 41 was manually annotated 7 times for cluster FO.

Gene Information:

Gene: Abidatro_5 Start: 2692, Stop: 4635, Start Num: 41
Candidate Starts for Abidatro_5:
(Start: 41 @2692 has 66 MA's), (82, 2824), (85, 2836), (109, 2929), (127, 2980), (163, 3085), (164, 3088), (191, 3175), (210, 3274), (240, 3454), (261, 3559), (263, 3568), (264, 3571), (276, 3649), (281, 3667), (282, 3670), (302, 3736), (316, 3796), (320, 3820), (332, 3862), (334, 3874), (370, 4018), (379, 4060), (406, 4153), (428, 4246), (435, 4270), (495, 4510), (513, 4594), (518, 4621),

Gene: Abigail_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for Abigail_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: AdoptaAdorbs_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for AdoptaAdorbs_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Akino08_4 Start: 2588, Stop: 4603, Start Num: 27
Candidate Starts for Akino08_4:
(10, 2465), (14, 2513), (Start: 27 @2588 has 86 MA's), (37, 2615), (38, 2618), (69, 2693), (77, 2729), (84, 2774), (85, 2777), (105, 2855), (123, 2903), (140, 2969), (178, 3074), (200, 3185), (212, 3242), (217, 3269), (240, 3401), (241, 3407), (254, 3476), (261, 3506), (263, 3515), (270, 3563), (275, 3593), (316, 3746), (334, 3824), (465, 4343), (483, 4406), (495, 4472), (509, 4538), (513, 4556),

Gene: Alatato_3 Start: 1789, Stop: 3738, Start Num: 36
Candidate Starts for Alatato_3:
(31, 1777), (Start: 36 @1789 has 2 MA's), (Start: 41 @1807 has 66 MA's), (48, 1837), (54, 1852), (73, 1888), (81, 1918), (84, 1948), (123, 2077), (148, 2164), (154, 2179), (167, 2218), (195, 2332), (199, 2353), (209, 2398), (212, 2413), (216, 2434), (240, 2572), (248, 2617), (260, 2665), (261, 2677), (270,

2731), (273, 2749), (275, 2761), (286, 2806), (316, 2917), (320, 2941), (335, 3001), (353, 3067), (364, 3106), (369, 3130), (371, 3139), (379, 3175), (380, 3178), (385, 3190), (412, 3298), (415, 3307), (421, 3334), (428, 3364), (435, 3388), (460, 3463), (467, 3496), (476, 3529), (477, 3532),

Gene: Albanese_6 Start: 4716, Stop: 6734, Start Num: 39
Candidate Starts for Albanese_6:
(Start: 39 @4716 has 84 MA's), (61, 4782), (87, 4893), (129, 5037), (130, 5040), (139, 5076), (140, 5079), (160, 5130), (176, 5181), (178, 5190), (188, 5226), (203, 5310), (208, 5331), (218, 5379), (232, 5445), (240, 5511), (261, 5616), (262, 5619), (278, 5709), (284, 5736), (308, 5826), (309, 5829), (316, 5856), (372, 6111), (379, 6144), (405, 6240), (411, 6267), (463, 6468), (495, 6609), (498, 6624), (513, 6693),

Gene: Albedo_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for Albedo_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (399, 3844), (465, 4081), (483, 4144), (495, 4210),

Gene: Albright_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for Albright_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: Aledel_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for Aledel_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: AlexMinion_4 Start: 2342, Stop: 4264, Start Num: 41
Candidate Starts for AlexMinion_4:
(Start: 41 @2342 has 66 MA's), (65, 2396), (82, 2471), (85, 2483), (98, 2537), (127, 2627), (142, 2681), (191, 2816), (210, 2915), (240, 3095), (242, 3104), (261, 3200), (262, 3203), (264, 3212), (276, 3290), (291, 3347), (316, 3437), (320, 3461), (332, 3503), (334, 3515), (345, 3581), (370, 3656), (379, 3698), (384, 3710), (406, 3791), (408, 3803), (428, 3884), (435, 3908), (456, 3974), (487, 4088), (495, 4139), (498, 4154), (511, 4208),

Gene: Aloki_23 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Aloki_23:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: Amanises_6 Start: 2893, Stop: 4863, Start Num: 41
Candidate Starts for Amanises_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: Amelia_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Amelia_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: AmiCi24_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for AmiCi24_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (469, 4012), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Amoonguss_22 Start: 9184, Stop: 11844, Start Num: 8
Candidate Starts for Amoonguss_22:
(Start: 5 @9169 has 1 MA's), (Start: 8 @9184 has 14 MA's), (21, 9289), (26, 9307), (44, 9376), (75, 9466), (79, 9481), (81, 9490), (100, 9589), (101, 9592), (116, 9634), (117, 9646), (124, 9676), (132, 9709), (135, 9721), (141, 9736), (147, 9751), (159, 9784), (163, 9796), (167, 9814), (183, 9880), (195, 9952), (197, 9958), (199, 9976), (214, 10045), (227, 10099), (228, 10102), (236, 10171), (248, 10240), (266, 10318), (294, 10456), (298, 10471), (314, 10537), (334, 10636), (336, 10645), (337, 10663), (372, 10825), (376, 10849), (387, 10879), (388, 10882), (390, 10894), (391, 10903), (397, 10960), (409, 11011), (416, 11038), (418, 11044), (420, 11059), (432, 11101), (437, 11119), (446, 11137), (460, 11182), (466, 11212), (468, 11221), (472, 11233), (475, 11245), (485, 11287), (494, 11347), (495, 11350), (505, 11398), (506, 11401), (508, 11410), (515, 11443), (519, 11464), (522, 11506), (523, 11515), (524, 11575), (528, 11608), (529, 11638), (532, 11734), (535, 11773), (537, 11830),

Gene: Amphitrite_4 Start: 2333, Stop: 4252, Start Num: 41
Candidate Starts for Amphitrite_4:
(Start: 41 @2333 has 66 MA's), (65, 2387), (82, 2462), (85, 2474), (98, 2528), (105, 2552), (127, 2618), (142, 2672), (163, 2720), (164, 2723), (191, 2807), (210, 2906), (230, 3017), (240, 3086), (242, 3095), (261, 3191), (262, 3194), (264, 3203), (276, 3281), (281, 3299), (291, 3338), (316, 3428), (320, 3452), (332, 3494), (334, 3506), (370, 3644), (379, 3686), (400, 3758), (428, 3872), (435, 3896), (456, 3962), (460, 3971), (473, 4022), (487, 4076), (495, 4127), (498, 4142), (511, 4196),

Gene: Andrew_5 Start: 2705, Stop: 4642, Start Num: 41
Candidate Starts for Andrew_5:
(Start: 41 @2705 has 66 MA's), (65, 2759), (82, 2834), (98, 2900), (109, 2939), (127, 2990), (142, 3044), (163, 3092), (172, 3116), (210, 3281), (240, 3461), (242, 3470), (261, 3566), (262, 3569), (264, 3578), (273, 3638), (276, 3656), (291, 3713), (316, 3803), (320, 3827), (322, 3836), (334, 3881), (379, 4067), (428, 4253), (435, 4277), (456, 4352), (473, 4412), (487, 4466), (495, 4517), (498, 4532),

Gene: AnnaLie_5 Start: 2675, Stop: 4699, Start Num: 27

Candidate Starts for AnnaLie_5:
(Start: 27 @2675 has 86 MA's), (38, 2708), (75, 2816), (77, 2825), (84, 2870), (85, 2873), (109, 2966), (140, 3065), (174, 3158), (193, 3233), (212, 3341), (217, 3368), (240, 3500), (241, 3506), (254, 3575), (261, 3605), (270, 3659), (278, 3698), (316, 3842), (334, 3920), (465, 4439), (483, 4502), (495, 4568),

Gene: Antrice_5 Start: 2669, Stop: 4606, Start Num: 41
Candidate Starts for Antrice_5:
(13, 2513), (18, 2573), (19, 2579), (21, 2600), (23, 2603), (28, 2630), (29, 2633), (Start: 39 @2663 has 84 MA's), (Start: 41 @2669 has 66 MA's), (65, 2723), (84, 2807), (85, 2810), (112, 2909), (149, 3026), (166, 3068), (191, 3149), (202, 3218), (210, 3248), (240, 3428), (242, 3437), (261, 3533), (276, 3623), (302, 3710), (316, 3770), (320, 3794), (332, 3836), (333, 3842), (334, 3848), (355, 3941), (369, 3986), (371, 3995), (404, 4118), (406, 4124), (421, 4187), (428, 4217), (473, 4376), (491, 4445), (495, 4481), (511, 4550),

Gene: Aoka_5 Start: 3139, Stop: 5082, Start Num: 41
Candidate Starts for Aoka_5:
(Start: 41 @3139 has 66 MA's), (116, 3385), (129, 3433), (155, 3508), (162, 3526), (173, 3556), (210, 3718), (240, 3889), (261, 3994), (302, 4171), (316, 4231), (320, 4255), (322, 4264), (415, 4648), (428, 4705), (451, 4789), (467, 4840), (476, 4873),

Gene: AppleCider_6 Start: 4658, Stop: 6673, Start Num: 39
Candidate Starts for AppleCider_6:
(Start: 39 @4658 has 84 MA's), (46, 4685), (50, 4697), (59, 4718), (87, 4832), (96, 4874), (98, 4877), (123, 4949), (127, 4967), (130, 4979), (132, 4994), (139, 5015), (158, 5063), (160, 5069), (163, 5078), (176, 5120), (177, 5126), (188, 5165), (190, 5174), (191, 5177), (201, 5237), (208, 5270), (217, 5315), (218, 5318), (240, 5450), (261, 5555), (275, 5639), (278, 5648), (286, 5684), (289, 5696), (309, 5768), (316, 5795), (372, 6050), (380, 6086), (423, 6257), (428, 6275), (495, 6548), (513, 6632),

Gene: Argena_22 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Argena_22:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (336, 10642), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: Armstrong_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Armstrong_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (460, 3937), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: Arroyo_5 Start: 2799, Stop: 4823, Start Num: 27
Candidate Starts for Arroyo_5:
(Start: 27 @2799 has 86 MA's), (38, 2832), (75, 2940), (77, 2949), (84, 2994), (85, 2997), (109, 3090), (140, 3189), (174, 3282), (193, 3357), (212, 3465), (217, 3492), (240, 3624), (241, 3630), (254, 3699),

(261, 3729), (270, 3783), (278, 3822), (316, 3966), (334, 4044), (465, 4563), (483, 4626), (495, 4692),

Gene: Atlantica_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for Atlantica_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: AustinPowers_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for AustinPowers_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (379, 3450), (411, 3573), (428, 3642), (448, 3708), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: AvGardian_4 Start: 2392, Stop: 4413, Start Num: 27
Candidate Starts for AvGardian_4:
(Start: 27 @2392 has 86 MA's), (74, 2530), (77, 2542), (84, 2587), (109, 2683), (140, 2782), (174, 2875), (191, 2944), (212, 3055), (217, 3082), (240, 3214), (241, 3220), (261, 3319), (270, 3373), (288, 3454), (316, 3556), (318, 3562), (334, 3634), (480, 4201), (483, 4216), (495, 4282), (509, 4348), (513, 4366),

Gene: Avocadoman_4 Start: 2387, Stop: 4411, Start Num: 27
Candidate Starts for Avocadoman_4:
(Start: 27 @2387 has 86 MA's), (38, 2420), (75, 2528), (77, 2537), (84, 2582), (85, 2585), (109, 2678), (140, 2777), (174, 2870), (193, 2945), (212, 3053), (217, 3080), (240, 3212), (241, 3218), (254, 3287), (261, 3317), (270, 3371), (278, 3410), (316, 3554), (334, 3632), (465, 4151), (483, 4214), (495, 4280),

Gene: AylexOG_5 Start: 2684, Stop: 4708, Start Num: 27
Candidate Starts for AylexOG_5:
(Start: 27 @2684 has 86 MA's), (38, 2717), (75, 2825), (77, 2834), (84, 2879), (85, 2882), (109, 2975), (140, 3074), (174, 3167), (193, 3242), (212, 3350), (217, 3377), (240, 3509), (241, 3515), (254, 3584), (261, 3614), (270, 3668), (278, 3707), (316, 3851), (334, 3929), (465, 4448), (483, 4511), (495, 4577),

Gene: Azaz_4 Start: 2383, Stop: 4302, Start Num: 41
Candidate Starts for Azaz_4:
(Start: 41 @2383 has 66 MA's), (65, 2437), (82, 2512), (85, 2524), (98, 2578), (127, 2668), (142, 2722), (163, 2770), (164, 2773), (191, 2857), (210, 2956), (222, 3013), (230, 3067), (240, 3136), (242, 3145), (261, 3241), (262, 3244), (264, 3253), (276, 3331), (291, 3388), (316, 3478), (320, 3502), (332, 3544), (334, 3556), (370, 3694), (379, 3736), (400, 3808), (428, 3922), (435, 3946), (456, 4012), (460, 4021), (473, 4072), (487, 4126), (495, 4177), (498, 4192), (511, 4246),

Gene: BAjuniper_4 Start: 2389, Stop: 4404, Start Num: 27
Candidate Starts for BAjuniper_4:
(Start: 27 @2389 has 86 MA's), (40, 2425), (77, 2530), (85, 2578), (105, 2656), (109, 2668), (123, 2701), (140, 2767), (199, 2971), (208, 3013), (212, 3031), (217, 3058), (240, 3190), (244, 3205), (261, 3295), (263, 3304), (267, 3334), (270, 3352), (275, 3382), (316, 3535), (321, 3562), (334, 3613), (338, 3640), (406, 3922), (421, 3985), (428, 4015), (453, 4093), (458, 4111), (467, 4153), (471, 4168), (480, 4195), (495, 4276), (509, 4342), (513, 4360),

Gene: Babushka_4 Start: 2382, Stop: 4301, Start Num: 41
Candidate Starts for Babushka_4:
(Start: 41 @2382 has 66 MA's), (65, 2436), (82, 2511), (85, 2523), (98, 2577), (127, 2667), (142, 2721), (163, 2769), (164, 2772), (190, 2853), (191, 2856), (210, 2955), (240, 3135), (242, 3144), (261, 3240), (262, 3243), (264, 3252), (276, 3330), (291, 3387), (316, 3477), (320, 3501), (332, 3543), (334, 3555), (370, 3693), (379, 3735), (400, 3807), (435, 3945), (442, 3969), (456, 4011), (460, 4020), (487, 4125), (495, 4176), (498, 4191), (511, 4245),

Gene: BabyDaisy_5 Start: 2584, Stop: 4605, Start Num: 27
Candidate Starts for BabyDaisy_5:
(Start: 27 @2584 has 86 MA's), (77, 2734), (84, 2779), (85, 2782), (140, 2974), (174, 3067), (193, 3136), (212, 3244), (217, 3271), (240, 3403), (241, 3409), (261, 3508), (270, 3562), (278, 3601), (308, 3715), (316, 3745), (318, 3751), (334, 3823), (338, 3850), (343, 3898), (349, 3913), (378, 4033), (421, 4195), (480, 4393), (483, 4408), (495, 4474), (498, 4489), (504, 4522),

Gene: BabyYoda_4 Start: 2594, Stop: 4609, Start Num: 27
Candidate Starts for BabyYoda_4:
(Start: 27 @2594 has 86 MA's), (37, 2621), (38, 2624), (69, 2699), (77, 2735), (84, 2780), (85, 2783), (123, 2909), (140, 2975), (178, 3080), (193, 3140), (212, 3248), (217, 3275), (240, 3407), (241, 3413), (254, 3482), (261, 3512), (263, 3521), (270, 3569), (275, 3599), (316, 3752), (334, 3830), (447, 4289), (465, 4349), (483, 4412), (495, 4478),

Gene: Bachaco_4 Start: 2515, Stop: 4530, Start Num: 27
Candidate Starts for Bachaco_4:
(Start: 27 @2515 has 86 MA's), (37, 2542), (38, 2545), (52, 2587), (66, 2611), (75, 2647), (77, 2656), (84, 2701), (85, 2704), (87, 2713), (123, 2830), (137, 2890), (177, 2998), (200, 3103), (208, 3142), (212, 3160), (217, 3187), (219, 3193), (231, 3253), (240, 3319), (261, 3424), (262, 3427), (263, 3433), (267, 3463), (270, 3481), (300, 3595), (316, 3664), (322, 3697), (334, 3742), (378, 3961), (465, 4273), (480, 4321), (495, 4402), (504, 4450), (509, 4468),

Gene: BadWillHunting_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for BadWillHunting_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: Basilisk_5 Start: 2958, Stop: 4898, Start Num: 41
Candidate Starts for Basilisk_5:
(Start: 41 @2958 has 66 MA's), (71, 3030), (84, 3099), (85, 3102), (93, 3144), (105, 3180), (127, 3246), (130, 3258), (158, 3336), (163, 3351), (191, 3441), (210, 3540), (224, 3603), (240, 3720), (261, 3825), (263, 3834), (264, 3837), (273, 3897), (276, 3915), (281, 3933), (282, 3936), (302, 4002), (316, 4062), (320, 4086), (332, 4128), (334, 4140), (370, 4281), (379, 4323), (406, 4416), (428, 4509), (435, 4533), (487, 4722), (495, 4773), (498, 4788), (513, 4857), (518, 4884), (519, 4890),

Gene: Bedetta_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Bedetta_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: Beethoven_6 Start: 4660, Stop: 6669, Start Num: 39
Candidate Starts for Beethoven_6:
(Start: 39 @4660 has 84 MA's), (Start: 47 @4690 has 1 MA's), (81, 4786), (84, 4816), (87, 4828), (98, 4873), (130, 4975), (131, 4984), (140, 5014), (158, 5059), (160, 5065), (176, 5116), (188, 5161), (190, 5170), (201, 5233), (208, 5266), (217, 5311), (218, 5314), (240, 5446), (244, 5461), (257, 5530), (261, 5551), (264, 5563), (274, 5632), (278, 5644), (299, 5719), (309, 5764), (316, 5791), (344, 5944), (371, 6043), (372, 6046), (384, 6091), (404, 6172), (411, 6202), (423, 6253), (463, 6403), (495, 6544), (513, 6628),

Gene: BelmontSKP_5 Start: 2675, Stop: 4699, Start Num: 27
Candidate Starts for BelmontSKP_5:
(Start: 27 @2675 has 86 MA's), (38, 2708), (75, 2816), (77, 2825), (84, 2870), (85, 2873), (109, 2966), (140, 3065), (174, 3158), (193, 3233), (212, 3341), (217, 3368), (240, 3500), (241, 3506), (254, 3575), (261, 3605), (270, 3659), (278, 3698), (316, 3842), (334, 3920), (465, 4439), (483, 4502), (495, 4568),

Gene: Bengal_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for Bengal_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: Bennie_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Bennie_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (130, 2334), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (186, 2508), (188, 2520), (190, 2529), (217, 2670), (240, 2805), (244, 2820), (248, 2850), (257, 2889), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Bernstein_3 Start: 2230, Stop: 4281, Start Num: 27
Candidate Starts for Bernstein_3:
(Start: 27 @2230 has 86 MA's), (57, 2314), (69, 2344), (75, 2371), (77, 2380), (85, 2428), (128, 2575), (134, 2605), (137, 2611), (208, 2863), (212, 2881), (217, 2908), (219, 2914), (240, 3040), (261, 3145), (263, 3154), (267, 3184), (270, 3202), (316, 3385), (332, 3451), (334, 3463), (379, 3697), (406, 3793), (467, 4030), (469, 4036), (474, 4051), (480, 4072), (495, 4153), (509, 4219),

Gene: Beted_22 Start: 8807, Stop: 11467, Start Num: 8
Candidate Starts for Beted_22:
(Start: 5 @8792 has 1 MA's), (Start: 8 @8807 has 14 MA's), (21, 8912), (26, 8930), (44, 8999), (75, 9089), (79, 9104), (81, 9113), (100, 9212), (101, 9215), (116, 9257), (117, 9269), (124, 9299), (132, 9332), (135, 9344), (141, 9359), (147, 9374), (159, 9407), (163, 9419), (167, 9437), (183, 9503), (195, 9575), (197, 9581), (199, 9599), (214, 9668), (227, 9722), (228, 9725), (236, 9794), (248, 9863), (266, 9941), (294, 10079), (298, 10094), (334, 10259), (337, 10286), (372, 10448), (376, 10472), (387, 10502), (388, 10505), (390, 10517), (391, 10526), (397, 10583), (409, 10634), (416, 10661), (418, 10667), (420, 10682), (432, 10724), (437, 10742), (446, 10760), (460, 10805), (466, 10835), (468, 10844), (472, 10856), (475, 10868), (485, 10910), (486, 10916), (494, 10970), (495, 10973), (505, 11021), (506, 11024), (508, 11033), (515, 11066), (519, 11087), (522, 11129), (523, 11138), (524, 11198), (528, 11231), (529, 11261), (531, 11321), (532, 11357), (533, 11360), (535, 11396), (537, 11453),

Gene: Bibble12_6 Start: 2878, Stop: 4821, Start Num: 41
Candidate Starts for Bibble12_6:

(Start: 41 @2878 has 66 MA's), (54, 2920), (71, 2950), (82, 3010), (85, 3022), (127, 3166), (130, 3178), (155, 3250), (191, 3361), (210, 3460), (240, 3640), (242, 3649), (249, 3691), (261, 3745), (262, 3748), (264, 3757), (276, 3835), (281, 3853), (302, 3922), (316, 3982), (320, 4006), (332, 4048), (334, 4060), (370, 4204), (379, 4246), (406, 4339), (421, 4402), (428, 4432), (435, 4456), (487, 4645), (495, 4696), (498, 4711), (511, 4765),

Gene: BigMack_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for BigMack_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (87, 2187), (98, 2232), (126, 2319), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (177, 2481), (186, 2508), (190, 2529), (201, 2592), (206, 2616), (217, 2670), (218, 2673), (240, 2805), (244, 2820), (261, 2910), (264, 2922), (278, 3003), (280, 3015), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (331, 3210), (334, 3228), (371, 3402), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Bodacious_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Bodacious_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Brahms_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Brahms_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (137, 2551), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: BrayBeast_4 Start: 2058, Stop: 3983, Start Num: 41
Candidate Starts for BrayBeast_4:
(Start: 41 @2058 has 66 MA's), (73, 2133), (109, 2292), (130, 2355), (139, 2391), (162, 2448), (172, 2475), (203, 2613), (216, 2673), (240, 2811), (242, 2820), (261, 2916), (281, 3024), (283, 3033), (302, 3093), (351, 3303), (369, 3372), (371, 3381), (386, 3432), (415, 3549), (417, 3555), (421, 3576), (435, 3630), (442, 3654), (456, 3699), (460, 3708), (467, 3741), (476, 3774), (487, 3810), (517, 3969),

Gene: BrotherBLo_6 Start: 4666, Stop: 6675, Start Num: 39
Candidate Starts for BrotherBLo_6:
(Start: 39 @4666 has 84 MA's), (Start: 47 @4696 has 1 MA's), (81, 4792), (84, 4822), (87, 4834), (98, 4879), (130, 4981), (131, 4990), (140, 5020), (158, 5065), (160, 5071), (176, 5122), (188, 5167), (190, 5176), (201, 5239), (208, 5272), (217, 5317), (218, 5320), (240, 5452), (244, 5467), (257, 5536), (261, 5557), (264, 5569), (274, 5638), (278, 5650), (299, 5725), (309, 5770), (316, 5797), (344, 5950), (372, 6052), (384, 6097), (404, 6178), (411, 6208), (423, 6259), (463, 6409), (495, 6550), (513, 6634),

Gene: Brynnie_5 Start: 2755, Stop: 4695, Start Num: 41
Candidate Starts for Brynnie_5:
(Start: 41 @2755 has 66 MA's), (71, 2827), (84, 2896), (85, 2899), (93, 2941), (105, 2977), (127, 3043), (130, 3055), (158, 3133), (163, 3148), (191, 3238), (210, 3337), (224, 3400), (240, 3517), (261, 3622), (263, 3631), (264, 3634), (273, 3694), (276, 3712), (281, 3730), (282, 3733), (302, 3799), (316, 3859), (320, 3883), (332, 3925), (334, 3937), (370, 4078), (379, 4120), (406, 4213), (428, 4306), (435, 4330), (487, 4519), (495, 4570), (498, 4585), (513, 4654), (518, 4681), (519, 4687),

Gene: BubbaBear_4 Start: 2317, Stop: 4341, Start Num: 27

Candidate Starts for BubbaBear_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (187, 2854), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: Buldak_4 Start: 2587, Stop: 4644, Start Num: 27
Candidate Starts for Buldak_4:
(Start: 27 @2587 has 86 MA's), (68, 2701), (73, 2713), (75, 2728), (77, 2737), (84, 2782), (123, 2908), (128, 2932), (134, 2962), (164, 3031), (177, 3076), (190, 3124), (191, 3127), (199, 3178), (206, 3211), (240, 3397), (261, 3502), (270, 3556), (273, 3574), (278, 3595), (309, 3712), (316, 3739), (330, 3796), (334, 3817), (379, 4054), (427, 4237), (465, 4387), (473, 4411), (483, 4450), (495, 4522), (500, 4543),

Gene: Burritobowl_4 Start: 2327, Stop: 4351, Start Num: 27
Candidate Starts for Burritobowl_4:
(Start: 27 @2327 has 86 MA's), (38, 2360), (75, 2468), (77, 2477), (84, 2522), (85, 2525), (109, 2618), (140, 2717), (174, 2810), (193, 2885), (212, 2993), (217, 3020), (240, 3152), (241, 3158), (254, 3227), (261, 3257), (270, 3311), (278, 3350), (316, 3494), (334, 3572), (465, 4091), (483, 4154), (495, 4220),

Gene: CallieOMalley_6 Start: 4658, Stop: 6673, Start Num: 39
Candidate Starts for CallieOMalley_6:
(Start: 39 @4658 has 84 MA's), (46, 4685), (50, 4697), (59, 4718), (87, 4832), (96, 4874), (98, 4877), (123, 4949), (127, 4967), (130, 4979), (132, 4994), (139, 5015), (158, 5063), (160, 5069), (163, 5078), (176, 5120), (177, 5126), (188, 5165), (190, 5174), (191, 5177), (201, 5237), (208, 5270), (217, 5315), (218, 5318), (240, 5450), (261, 5555), (275, 5639), (278, 5648), (286, 5684), (289, 5696), (309, 5768), (316, 5795), (372, 6050), (380, 6086), (423, 6257), (428, 6275), (495, 6548), (513, 6632),

Gene: Camara_4 Start: 2336, Stop: 4255, Start Num: 41
Candidate Starts for Camara_4:
(Start: 41 @2336 has 66 MA's), (65, 2390), (82, 2465), (85, 2477), (98, 2531), (127, 2621), (142, 2675), (163, 2723), (164, 2726), (191, 2810), (210, 2909), (230, 3020), (240, 3089), (242, 3098), (261, 3194), (262, 3197), (264, 3206), (276, 3284), (281, 3302), (291, 3341), (316, 3431), (320, 3455), (332, 3497), (334, 3509), (370, 3647), (379, 3689), (400, 3761), (428, 3875), (435, 3899), (456, 3965), (460, 3974), (469, 4013), (473, 4025), (487, 4079), (495, 4130), (498, 4145), (511, 4199),

Gene: CanFranMach_4 Start: 2331, Stop: 4352, Start Num: 27
Candidate Starts for CanFranMach_4:
(Start: 27 @2331 has 86 MA's), (38, 2364), (75, 2472), (77, 2481), (84, 2526), (109, 2622), (174, 2814), (191, 2883), (212, 2994), (217, 3021), (240, 3153), (241, 3159), (254, 3228), (261, 3258), (270, 3312), (278, 3351), (316, 3495), (334, 3573), (483, 4155), (495, 4221),

Gene: Canowicakte_6 Start: 4693, Stop: 6708, Start Num: 39
Candidate Starts for Canowicakte_6:
(Start: 39 @4693 has 84 MA's), (46, 4720), (50, 4732), (59, 4753), (87, 4867), (96, 4909), (98, 4912), (123, 4984), (127, 5002), (130, 5014), (158, 5098), (160, 5104), (163, 5113), (176, 5155), (177, 5161), (188, 5200), (190, 5209), (191, 5212), (201, 5272), (208, 5305), (217, 5350), (218, 5353), (240, 5485), (261, 5590), (278, 5683), (286, 5719), (289, 5731), (309, 5803), (316, 5830), (322, 5863), (372, 6085), (379, 6118), (380, 6121), (428, 6310), (495, 6583), (513, 6667),

Gene: Cantare_7 Start: 3960, Stop: 6341, Start Num: 9
Candidate Starts for Cantare_7:
(Start: 9 @3960 has 1 MA's), (11, 3969), (12, 3978), (15, 4023), (17, 4032), (26, 4083), (40, 4131), (56, 4182), (107, 4380), (110, 4386), (122, 4431), (129, 4455), (145, 4509), (157, 4536), (183, 4644), (203, 4752), (204, 4758), (220, 4830), (221, 4833), (227, 4857), (228, 4860), (233, 4911), (235, 4920), (236,

4929), (243, 4962), (246, 4983), (254, 5028), (258, 5040), (279, 5160), (292, 5211), (298, 5226), (303, 5244), (304, 5247), (315, 5280), (319, 5301), (320, 5310), (342, 5445), (359, 5493), (379, 5580), (386, 5601), (392, 5640), (394, 5655), (398, 5682), (412, 5742), (414, 5748), (419, 5772), (426, 5802), (431, 5829), (437, 5850), (452, 5901), (478, 6006), (496, 6102), (499, 6117), (501, 6120), (508, 6162),

Gene: Carpal_6 Start: 4666, Stop: 6675, Start Num: 39
Candidate Starts for Carpal_6:
(Start: 39 @4666 has 84 MA's), (Start: 47 @4696 has 1 MA's), (81, 4792), (84, 4822), (87, 4834), (98, 4879), (130, 4981), (131, 4990), (140, 5020), (158, 5065), (160, 5071), (176, 5122), (188, 5167), (190, 5176), (201, 5239), (208, 5272), (217, 5317), (218, 5320), (240, 5452), (244, 5467), (257, 5536), (261, 5557), (264, 5569), (274, 5638), (278, 5650), (299, 5725), (309, 5770), (316, 5797), (344, 5950), (371, 6049), (372, 6052), (384, 6097), (404, 6178), (411, 6208), (423, 6259), (463, 6409), (495, 6550), (513, 6634),

Gene: Cashington_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for Cashington_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (254, 3217), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: Celaena_4 Start: 2452, Stop: 4467, Start Num: 27
Candidate Starts for Celaena_4:
(Start: 27 @2452 has 86 MA's), (37, 2479), (38, 2482), (52, 2524), (66, 2548), (75, 2584), (77, 2593), (84, 2638), (85, 2641), (87, 2650), (123, 2767), (137, 2827), (177, 2935), (200, 3040), (208, 3079), (212, 3097), (217, 3124), (219, 3130), (231, 3190), (240, 3256), (261, 3361), (262, 3364), (263, 3370), (267, 3400), (270, 3418), (300, 3532), (316, 3601), (322, 3634), (334, 3679), (378, 3898), (465, 4210), (480, 4258), (495, 4339), (504, 4387), (509, 4405),

Gene: ChewChew_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for ChewChew_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Chickaboom_4 Start: 2389, Stop: 4344, Start Num: 41
Candidate Starts for Chickaboom_4:
(Start: 41 @2389 has 66 MA's), (67, 2449), (82, 2521), (84, 2530), (85, 2533), (105, 2611), (121, 2665), (127, 2692), (130, 2704), (151, 2767), (152, 2770), (155, 2776), (163, 2797), (191, 2887), (210, 2986), (224, 3049), (240, 3166), (261, 3271), (263, 3280), (264, 3283), (273, 3343), (276, 3361), (281, 3379), (282, 3382), (302, 3448), (316, 3508), (320, 3532), (332, 3574), (334, 3586), (370, 3727), (379, 3769), (406, 3862), (428, 3955), (435, 3979), (487, 4168), (495, 4219), (498, 4234), (513, 4303), (518, 4330), (519, 4336),

Gene: Chicken_5 Start: 2684, Stop: 4648, Start Num: 41
Candidate Starts for Chicken_5:
(Start: 41 @2684 has 66 MA's), (71, 2756), (85, 2828), (114, 2930), (127, 2972), (130, 2984), (151, 3047), (152, 3050), (155, 3056), (163, 3077), (191, 3167), (202, 3236), (210, 3266), (240, 3446), (242, 3455), (261, 3551), (262, 3554), (264, 3563), (273, 3623), (276, 3641), (281, 3659), (302, 3728), (316, 3788), (320, 3812), (332, 3854), (334, 3866), (370, 4031), (379, 4073), (402, 4154), (406, 4166), (428, 4259), (433, 4280), (435, 4283), (456, 4358), (461, 4373), (495, 4523), (498, 4538), (516, 4628),

Gene: Chidiebere_23 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Chidiebere_23:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: ChiliPepper_4 Start: 2572, Stop: 4596, Start Num: 27
Candidate Starts for ChiliPepper_4:
(Start: 27 @2572 has 86 MA's), (37, 2599), (38, 2602), (49, 2635), (52, 2644), (69, 2677), (77, 2713), (84, 2758), (105, 2839), (123, 2887), (174, 3040), (178, 3058), (187, 3097), (200, 3169), (208, 3208), (212, 3226), (217, 3253), (240, 3385), (241, 3391), (261, 3490), (263, 3499), (270, 3547), (275, 3577), (285, 3619), (316, 3730), (322, 3763), (334, 3808), (378, 4027), (421, 4189), (437, 4255), (465, 4339), (470, 4354), (504, 4516), (509, 4534),

Gene: ChisanaKitsune_19 Start: 7882, Stop: 10536, Start Num: 8
Candidate Starts for ChisanaKitsune_19:
(Start: 5 @7867 has 1 MA's), (Start: 8 @7882 has 14 MA's), (21, 7987), (26, 8005), (44, 8074), (75, 8164), (79, 8179), (100, 8287), (101, 8290), (116, 8332), (117, 8344), (124, 8374), (132, 8407), (135, 8419), (141, 8434), (147, 8449), (159, 8482), (163, 8494), (167, 8512), (183, 8578), (195, 8650), (197, 8656), (199, 8674), (214, 8743), (227, 8797), (228, 8800), (236, 8869), (248, 8938), (266, 9016), (294, 9154), (298, 9169), (334, 9334), (337, 9361), (372, 9517), (376, 9541), (387, 9571), (388, 9574), (390, 9586), (391, 9595), (397, 9652), (409, 9703), (418, 9736), (420, 9751), (432, 9793), (437, 9811), (446, 9829), (460, 9874), (466, 9904), (468, 9913), (472, 9925), (475, 9937), (485, 9979), (486, 9985), (494, 10039), (495, 10042), (505, 10090), (506, 10093), (508, 10102), (515, 10135), (519, 10156), (522, 10198), (523, 10207), (524, 10267), (528, 10300), (529, 10330), (532, 10426), (533, 10429), (535, 10465), (537, 10522),

Gene: Cholula_6 Start: 4711, Stop: 6720, Start Num: 39
Candidate Starts for Cholula_6:
(Start: 39 @4711 has 84 MA's), (Start: 47 @4741 has 1 MA's), (81, 4837), (84, 4867), (87, 4879), (98, 4924), (130, 5026), (131, 5035), (140, 5065), (158, 5110), (160, 5116), (176, 5167), (188, 5212), (190, 5221), (201, 5284), (208, 5317), (217, 5362), (218, 5365), (240, 5497), (244, 5512), (257, 5581), (261, 5602), (264, 5614), (274, 5683), (278, 5695), (299, 5770), (309, 5815), (316, 5842), (371, 6094), (372, 6097), (384, 6142), (404, 6223), (411, 6253), (423, 6304), (463, 6454), (495, 6595), (513, 6679),

Gene: Chridison_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for Chridison_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (379, 3450), (411, 3573), (428, 3642), (448, 3708), (477, 3822), (491, 3879), (495, 3915), (498, 3930), (513, 3999),

Gene: Christian_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Christian_3:

(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (177, 2481), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (284, 3030), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (371, 3402), (372, 3405), (384, 3450), (404, 3531), (430, 3636), (463, 3762), (495, 3903), (513, 3987),

Gene: Clayda5_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Clayda5_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (137, 2551), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: CliffHanger_5 Start: 2398, Stop: 4446, Start Num: 27
Candidate Starts for CliffHanger_5:
(Start: 27 @2398 has 86 MA's), (68, 2512), (77, 2548), (84, 2593), (85, 2596), (108, 2683), (111, 2689), (123, 2719), (128, 2743), (134, 2773), (140, 2785), (174, 2872), (187, 2920), (193, 2941), (208, 3031), (212, 3049), (217, 3076), (219, 3082), (240, 3208), (261, 3313), (267, 3349), (270, 3367), (271, 3370), (273, 3385), (285, 3439), (316, 3550), (317, 3553), (321, 3577), (334, 3628), (363, 3793), (454, 4153), (483, 4261), (489, 4288), (495, 4324), (516, 4429),

Gene: CocoCinnamon_7 Start: 3192, Stop: 5144, Start Num: 41
Candidate Starts for CocoCinnamon_7:
(Start: 41 @3192 has 66 MA's), (60, 3243), (82, 3321), (87, 3342), (129, 3486), (139, 3525), (162, 3582), (216, 3807), (240, 3945), (261, 4050), (264, 4062), (281, 4158), (316, 4287), (351, 4437), (369, 4500), (371, 4509), (415, 4710), (460, 4869), (467, 4902), (476, 4935), (477, 4938), (498, 5037), (512, 5097), (517, 5130),

Gene: Coltrane_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Coltrane_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (137, 2551), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: Colusalem_5 Start: 2714, Stop: 4657, Start Num: 41
Candidate Starts for Colusalem_5:
(Start: 41 @2714 has 66 MA's), (54, 2756), (71, 2786), (82, 2846), (84, 2855), (85, 2858), (87, 2867), (126, 2999), (127, 3002), (154, 3083), (163, 3107), (191, 3197), (210, 3296), (240, 3476), (242, 3485), (249, 3527), (261, 3581), (262, 3584), (264, 3593), (276, 3671), (281, 3689), (316, 3818), (320, 3842), (332, 3884), (334, 3896), (370, 4040), (379, 4082), (406, 4175), (421, 4238), (428, 4268), (435, 4292), (487, 4481), (495, 4532), (498, 4547), (511, 4601),

Gene: Coral_5 Start: 2714, Stop: 4657, Start Num: 41
Candidate Starts for Coral_5:
(Start: 41 @2714 has 66 MA's), (54, 2756), (71, 2786), (82, 2846), (84, 2855), (85, 2858), (87, 2867), (126, 2999), (127, 3002), (154, 3083), (163, 3107), (191, 3197), (210, 3296), (240, 3476), (242, 3485), (249, 3527), (261, 3581), (262, 3584), (264, 3593), (276, 3671), (281, 3689), (316, 3818), (320, 3842), (332, 3884), (334, 3896), (370, 4040), (379, 4082), (406, 4175), (421, 4238), (428, 4268), (435, 4292), (487, 4481), (495, 4532), (498, 4547), (511, 4601),

Gene: Cote_6 Start: 2875, Stop: 4818, Start Num: 41

Candidate Starts for Cote_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: CristinaYang_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for CristinaYang_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: CroZenni_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for CroZenni_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: CupcakePrincess_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for CupcakePrincess_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (365, 3720), (465, 4080), (483, 4143), (495, 4209),

Gene: Cygnet_5 Start: 2671, Stop: 4629, Start Num: 41
Candidate Starts for Cygnet_5:
(Start: 39 @2665 has 84 MA's), (Start: 41 @2671 has 66 MA's), (70, 2740), (84, 2809), (85, 2812), (149, 3028), (155, 3040), (166, 3070), (202, 3220), (210, 3250), (240, 3430), (242, 3439), (261, 3535), (276, 3625), (302, 3712), (316, 3772), (321, 3799), (332, 3838), (334, 3850), (347, 3925), (406, 4147), (421, 4210), (433, 4261), (473, 4399), (503, 4549), (512, 4579),

Gene: Daiboju_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Daiboju_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: DalanDe_18 Start: 8687, Stop: 11458, Start Num: 8
Candidate Starts for DalanDe_18:
(Start: 8 @8687 has 14 MA's), (12, 8711), (21, 8789), (29, 8822), (40, 8855), (42, 8861), (58, 8912), (62, 8921), (64, 8927), (91, 9056), (99, 9080), (117, 9140), (124, 9170), (130, 9188), (143, 9233), (153, 9260), (159, 9278), (163, 9290), (167, 9308), (174, 9332), (178, 9350), (179, 9353), (183, 9374), (184, 9377), (186, 9386), (199, 9470), (204, 9494), (207, 9503), (211, 9524), (214, 9539), (215, 9542), (225, 9581), (228, 9596), (236, 9665), (237, 9668), (245, 9707), (248, 9734), (253, 9758), (258, 9776), (267, 9833), (282, 9911), (290, 9944), (291, 9950), (297, 9965), (298, 9968), (304, 9989), (312, 10025), (326, 10085), (327, 10091), (329, 10106), (331, 10112), (341, 10184), (357, 10259), (367, 10334), (382, 10391), (387, 10406), (388, 10409), (391, 10430), (418, 10559), (420, 10574), (434, 10646), (439,

10688), (457, 10760), (472, 10826), (475, 10838), (484, 10871), (486, 10886), (489, 10904), (492, 10910), (505, 10991), (508, 11003), (514, 11027), (515, 11036), (520, 11078), (526, 11186), (527, 11189), (530, 11249), (532, 11324), (536, 11417), (537, 11420),

Gene: Damocles_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Damocles_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: DanHam62_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for DanHam62_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Daob_6 Start: 2878, Stop: 4821, Start Num: 41
Candidate Starts for Daob_6:
(Start: 41 @2878 has 66 MA's), (54, 2920), (71, 2950), (82, 3010), (84, 3019), (85, 3022), (87, 3031), (126, 3163), (127, 3166), (154, 3247), (163, 3271), (191, 3361), (210, 3460), (240, 3640), (242, 3649), (249, 3691), (261, 3745), (262, 3748), (264, 3757), (276, 3835), (281, 3853), (316, 3982), (320, 4006), (332, 4048), (334, 4060), (370, 4204), (379, 4246), (406, 4339), (421, 4402), (428, 4432), (435, 4456), (487, 4645), (495, 4696), (498, 4711), (511, 4765),

Gene: DickRichards_4 Start: 2794, Stop: 4818, Start Num: 27
Candidate Starts for DickRichards_4:
(Start: 27 @2794 has 86 MA's), (38, 2827), (75, 2935), (77, 2944), (84, 2989), (85, 2992), (109, 3085), (140, 3184), (174, 3277), (193, 3352), (212, 3460), (217, 3487), (240, 3619), (241, 3625), (254, 3694), (261, 3724), (270, 3778), (278, 3817), (316, 3961), (334, 4039), (465, 4558), (483, 4621), (495, 4687),

Gene: Didgeridoo_5 Start: 2584, Stop: 4605, Start Num: 27
Candidate Starts for Didgeridoo_5:
(Start: 27 @2584 has 86 MA's), (77, 2734), (84, 2779), (85, 2782), (140, 2974), (174, 3067), (193, 3136), (212, 3244), (217, 3271), (240, 3403), (241, 3409), (261, 3508), (270, 3562), (278, 3601), (308, 3715), (316, 3745), (318, 3751), (334, 3823), (338, 3850), (343, 3898), (349, 3913), (378, 4033), (421, 4195), (480, 4393), (483, 4408), (495, 4474), (498, 4489), (504, 4522),

Gene: Dino_6 Start: 4666, Stop: 6675, Start Num: 39
Candidate Starts for Dino_6:
(Start: 39 @4666 has 84 MA's), (Start: 47 @4696 has 1 MA's), (81, 4792), (84, 4822), (87, 4834), (98, 4879), (130, 4981), (131, 4990), (140, 5020), (158, 5065), (160, 5071), (176, 5122), (188, 5167), (190, 5176), (201, 5239), (208, 5272), (217, 5317), (218, 5320), (240, 5452), (244, 5467), (257, 5536), (261, 5557), (264, 5569), (274, 5638), (278, 5650), (299, 5725), (309, 5770), (316, 5797), (372, 6052), (384, 6097), (404, 6178), (411, 6208), (423, 6259), (463, 6409), (495, 6550), (513, 6634),

Gene: DirtyBubble_4 Start: 2593, Stop: 4608, Start Num: 27
Candidate Starts for DirtyBubble_4:
(Start: 27 @2593 has 86 MA's), (37, 2620), (38, 2623), (69, 2698), (77, 2734), (84, 2779), (85, 2782), (123, 2908), (140, 2974), (178, 3079), (193, 3139), (212, 3247), (217, 3274), (240, 3406), (241, 3412),

(254, 3481), (261, 3511), (263, 3520), (270, 3568), (275, 3598), (316, 3751), (334, 3829), (447, 4288), (465, 4348), (483, 4411), (495, 4477),

Gene: Dismas_4 Start: 2572, Stop: 4596, Start Num: 27
Candidate Starts for Dismas_4:
(Start: 27 @2572 has 86 MA's), (37, 2599), (38, 2602), (49, 2635), (52, 2644), (69, 2677), (77, 2713), (84, 2758), (105, 2839), (123, 2887), (174, 3040), (178, 3058), (187, 3097), (200, 3169), (208, 3208), (212, 3226), (217, 3253), (240, 3385), (241, 3391), (261, 3490), (263, 3499), (270, 3547), (275, 3577), (285, 3619), (316, 3730), (322, 3763), (334, 3808), (378, 4027), (421, 4189), (437, 4255), (465, 4339), (470, 4354), (504, 4516), (509, 4534),

Gene: Doobus_4 Start: 2551, Stop: 4575, Start Num: 27
Candidate Starts for Doobus_4:
(Start: 27 @2551 has 86 MA's), (38, 2584), (75, 2692), (77, 2701), (84, 2746), (85, 2749), (109, 2842), (140, 2941), (174, 3034), (193, 3109), (212, 3217), (217, 3244), (240, 3376), (241, 3382), (254, 3451), (261, 3481), (270, 3535), (278, 3574), (316, 3718), (334, 3796), (465, 4315), (483, 4378), (495, 4444),

Gene: DrRobert_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for DrRobert_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (322, 3183), (359, 3345), (371, 3402), (372, 3405), (384, 3450), (404, 3531), (430, 3636), (463, 3762), (495, 3903), (513, 3987),

Gene: DreamTeam_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for DreamTeam_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (142, 2376), (158, 2418), (160, 2424), (188, 2520), (190, 2529), (198, 2574), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (261, 2910), (262, 2913), (264, 2922), (278, 3003), (284, 3030), (286, 3039), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (402, 3525), (404, 3531), (423, 3612), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Eden_3 Start: 2234, Stop: 4282, Start Num: 27
Candidate Starts for Eden_3:
(Start: 27 @2234 has 86 MA's), (46, 2288), (75, 2366), (105, 2501), (114, 2525), (140, 2615), (191, 2771), (208, 2864), (212, 2882), (217, 2909), (219, 2915), (240, 3041), (261, 3146), (263, 3155), (267, 3185), (270, 3203), (275, 3233), (308, 3356), (316, 3386), (321, 3413), (334, 3464), (403, 3785), (428, 3887), (471, 4046), (474, 4052), (477, 4067), (480, 4073), (495, 4154), (509, 4220),

Gene: Eesa_5 Start: 2893, Stop: 4869, Start Num: 41
Candidate Starts for Eesa_5:
(Start: 41 @2893 has 66 MA's), (85, 3037), (105, 3115), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (202, 3460), (210, 3490), (223, 3550), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (370, 4252), (379, 4294), (402, 4375), (406, 4387), (428, 4480), (433, 4501), (456, 4579), (461, 4594), (473, 4639), (495, 4744), (498, 4759), (516, 4849),

Gene: Elener_5 Start: 3820, Stop: 5781, Start Num: 55
Candidate Starts for Elener_5:
(2, 3523), (6, 3580), (7, 3583), (22, 3709), (Start: 55 @3820 has 1 MA's), (76, 3886), (104, 4015), (138, 4132), (154, 4171), (186, 4294), (189, 4312), (191, 4318), (217, 4465), (240, 4591), (259, 4681), (272,

4765), (318, 4939), (320, 4957), (399, 5278), (411, 5326), (422, 5374), (436, 5422), (446, 5452), (455, 5485), (495, 5656), (502, 5686),

Gene: Elva_5 Start: 2650, Stop: 4677, Start Num: 27
Candidate Starts for Elva_5:
(10, 2527), (Start: 27 @2650 has 86 MA's), (37, 2677), (38, 2680), (69, 2755), (77, 2791), (84, 2836), (85, 2839), (123, 2965), (140, 3031), (177, 3133), (178, 3136), (193, 3196), (200, 3247), (208, 3286), (212, 3304), (217, 3331), (240, 3463), (241, 3469), (261, 3568), (270, 3625), (308, 3778), (316, 3808), (318, 3814), (334, 3886), (447, 4357), (483, 4480), (495, 4546), (513, 4630),

Gene: EmoNemo_22 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for EmoNemo_22:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: EstebanJulior_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for EstebanJulior_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (139, 2361), (140, 2364), (160, 2415), (177, 2472), (188, 2511), (190, 2520), (201, 2583), (206, 2607), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (274, 2982), (278, 2994), (302, 3081), (309, 3114), (316, 3141), (322, 3174), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (470, 3774), (495, 3894), (513, 3978),

Gene: Eula_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for Eula_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (187, 2853), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (465, 4080), (480, 4128), (483, 4143), (495, 4209),

Gene: Eunoia_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for Eunoia_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: EvenBluerMoon_5 Start: 3137, Stop: 5080, Start Num: 41
Candidate Starts for EvenBluerMoon_5:
(Start: 41 @3137 has 66 MA's), (116, 3383), (129, 3431), (155, 3506), (162, 3524), (173, 3554), (210, 3716), (240, 3887), (261, 3992), (302, 4169), (316, 4229), (320, 4253), (322, 4262), (415, 4646), (428, 4703), (451, 4787), (467, 4838), (476, 4871),

Gene: Farrylious_22 Start: 8934, Stop: 11594, Start Num: 8

Candidate Starts for Farrylious_22:
(Start: 5 @8919 has 1 MA's), (Start: 8 @8934 has 14 MA's), (21, 9039), (26, 9057), (44, 9126), (75, 9216), (79, 9231), (81, 9240), (100, 9339), (101, 9342), (116, 9384), (117, 9396), (124, 9426), (132, 9459), (135, 9471), (141, 9486), (147, 9501), (159, 9534), (163, 9546), (167, 9564), (183, 9630), (195, 9702), (197, 9708), (199, 9726), (214, 9795), (227, 9849), (228, 9852), (236, 9921), (248, 9990), (266, 10068), (294, 10206), (298, 10221), (314, 10287), (334, 10386), (336, 10395), (337, 10413), (367, 10557), (372, 10575), (376, 10599), (387, 10629), (388, 10632), (390, 10644), (391, 10653), (397, 10710), (409, 10761), (416, 10788), (418, 10794), (420, 10809), (432, 10851), (437, 10869), (446, 10887), (460, 10932), (466, 10962), (468, 10971), (472, 10983), (475, 10995), (485, 11037), (494, 11097), (495, 11100), (505, 11148), (506, 11151), (508, 11160), (515, 11193), (519, 11214), (522, 11256), (523, 11265), (524, 11325), (528, 11358), (529, 11388), (532, 11484), (535, 11523), (537, 11580),

Gene: Finalfrontier_5 Start: 2822, Stop: 4846, Start Num: 27
Candidate Starts for Finalfrontier_5:
(Start: 27 @2822 has 86 MA's), (38, 2855), (75, 2963), (77, 2972), (84, 3017), (85, 3020), (109, 3113), (140, 3212), (174, 3305), (193, 3380), (212, 3488), (217, 3515), (240, 3647), (241, 3653), (254, 3722), (261, 3752), (270, 3806), (278, 3845), (316, 3989), (334, 4067), (465, 4586), (483, 4649), (495, 4715),

Gene: Fingolfin_4 Start: 2336, Stop: 4255, Start Num: 41
Candidate Starts for Fingolfin_4:
(Start: 41 @2336 has 66 MA's), (65, 2390), (82, 2465), (85, 2477), (98, 2531), (127, 2621), (142, 2675), (163, 2723), (164, 2726), (191, 2810), (210, 2909), (230, 3020), (240, 3089), (242, 3098), (261, 3194), (262, 3197), (264, 3206), (276, 3284), (281, 3302), (291, 3341), (316, 3431), (320, 3455), (332, 3497), (334, 3509), (370, 3647), (379, 3689), (400, 3761), (428, 3875), (435, 3899), (456, 3965), (460, 3974), (473, 4025), (487, 4079), (495, 4130), (498, 4145), (511, 4199),

Gene: FlameThrower_4 Start: 2448, Stop: 4463, Start Num: 27
Candidate Starts for FlameThrower_4:
(Start: 27 @2448 has 86 MA's), (37, 2475), (38, 2478), (52, 2520), (66, 2544), (75, 2580), (77, 2589), (84, 2634), (85, 2637), (87, 2646), (123, 2763), (137, 2823), (177, 2931), (200, 3036), (208, 3075), (212, 3093), (217, 3120), (219, 3126), (231, 3186), (240, 3252), (261, 3357), (262, 3360), (263, 3366), (267, 3396), (270, 3414), (300, 3528), (316, 3597), (322, 3630), (334, 3675), (378, 3894), (465, 4206), (480, 4254), (495, 4335), (504, 4383), (509, 4401),

Gene: Fluke_6 Start: 4707, Stop: 6716, Start Num: 39
Candidate Starts for Fluke_6:
(Start: 39 @4707 has 84 MA's), (Start: 47 @4737 has 1 MA's), (81, 4833), (84, 4863), (87, 4875), (98, 4920), (130, 5022), (131, 5031), (140, 5061), (158, 5106), (160, 5112), (176, 5163), (188, 5208), (190, 5217), (201, 5280), (208, 5313), (217, 5358), (218, 5361), (240, 5493), (244, 5508), (257, 5577), (261, 5598), (264, 5610), (274, 5679), (278, 5691), (299, 5766), (309, 5811), (316, 5838), (344, 5991), (371, 6090), (372, 6093), (384, 6138), (404, 6219), (411, 6249), (423, 6300), (463, 6450), (495, 6591), (513, 6675),

Gene: FlyingTortilla_22 Start: 10228, Stop: 12855, Start Num: 8
Candidate Starts for FlyingTortilla_22:
(Start: 5 @10213 has 1 MA's), (Start: 8 @10228 has 14 MA's), (20, 10315), (21, 10330), (29, 10363), (44, 10417), (58, 10453), (72, 10489), (79, 10522), (81, 10531), (99, 10624), (100, 10630), (115, 10672), (116, 10675), (124, 10717), (132, 10750), (159, 10825), (163, 10837), (167, 10855), (183, 10921), (186, 10933), (197, 10999), (199, 11017), (228, 11143), (236, 11212), (248, 11281), (253, 11305), (266, 11359), (291, 11494), (294, 11497), (298, 11512), (337, 11704), (367, 11824), (372, 11842), (387, 11896), (391, 11920), (409, 12022), (410, 12025), (413, 12037), (420, 12070), (460, 12193), (464, 12220), (468, 12232), (472, 12244), (475, 12256), (485, 12298), (495, 12361), (505,

12409), (506, 12412), (508, 12421), (510, 12427), (515, 12454), (523, 12526), (527, 12607), (529, 12649), (531, 12709), (532, 12745), (533, 12748), (535, 12784), (537, 12841),

Gene: Franklin22_3 Start: 2242, Stop: 4278, Start Num: 27
Candidate Starts for Franklin22_3:
(Start: 27 @2242 has 86 MA's), (46, 2296), (Start: 55 @2314 has 1 MA's), (75, 2374), (85, 2431), (93, 2473), (105, 2509), (114, 2533), (140, 2623), (174, 2710), (208, 2869), (212, 2887), (217, 2914), (219, 2920), (240, 3046), (261, 3151), (263, 3160), (267, 3190), (270, 3208), (308, 3361), (316, 3391), (334, 3469), (370, 3652), (428, 3883), (450, 3958), (456, 3976), (467, 4027), (469, 4033), (474, 4048), (480, 4069), (495, 4150), (509, 4216),

Gene: FruityLoops_21 Start: 10233, Stop: 12860, Start Num: 8
Candidate Starts for FruityLoops_21:
(Start: 5 @10218 has 1 MA's), (Start: 8 @10233 has 14 MA's), (20, 10320), (21, 10335), (29, 10368), (44, 10422), (58, 10458), (72, 10494), (79, 10527), (81, 10536), (100, 10635), (115, 10677), (116, 10680), (124, 10722), (132, 10755), (159, 10830), (163, 10842), (167, 10860), (183, 10926), (184, 10929), (186, 10938), (197, 11004), (199, 11022), (228, 11148), (236, 11217), (248, 11286), (253, 11310), (266, 11364), (291, 11499), (294, 11502), (298, 11517), (337, 11709), (367, 11829), (372, 11847), (387, 11901), (391, 11925), (409, 12027), (410, 12030), (413, 12042), (420, 12075), (460, 12198), (464, 12225), (468, 12237), (472, 12249), (475, 12261), (485, 12303), (495, 12366), (505, 12414), (506, 12417), (508, 12426), (510, 12432), (515, 12459), (523, 12531), (527, 12612), (529, 12654), (531, 12714), (532, 12750), (533, 12753), (535, 12789), (537, 12846),

Gene: GMA6_11 Start: 5324, Stop: 7891, Start Num: 8
Candidate Starts for GMA6_11:
(Start: 8 @5324 has 14 MA's), (21, 5423), (29, 5456), (40, 5489), (42, 5495), (44, 5510), (58, 5546), (64, 5561), (75, 5597), (81, 5621), (86, 5663), (91, 5690), (100, 5720), (101, 5723), (106, 5744), (113, 5759), (117, 5777), (118, 5780), (124, 5807), (130, 5825), (132, 5840), (135, 5852), (141, 5867), (163, 5927), (183, 6011), (185, 6017), (188, 6035), (199, 6107), (207, 6140), (227, 6230), (228, 6233), (241, 6329), (277, 6527), (294, 6587), (306, 6626), (329, 6743), (350, 6824), (367, 6839), (372, 6857), (377, 6884), (391, 6935), (442, 7169), (453, 7199), (472, 7277), (475, 7289), (481, 7310), (489, 7355), (493, 7382), (506, 7445), (519, 7508), (523, 7559), (524, 7619), (529, 7682), (530, 7703), (532, 7778), (534, 7796), (537, 7874),

Gene: Gack_3 Start: 2278, Stop: 4326, Start Num: 27
Candidate Starts for Gack_3:
(Start: 27 @2278 has 86 MA's), (46, 2332), (75, 2410), (85, 2467), (93, 2509), (128, 2617), (134, 2647), (144, 2668), (174, 2749), (191, 2815), (199, 2866), (208, 2908), (212, 2926), (217, 2953), (219, 2959), (240, 3085), (261, 3190), (263, 3199), (267, 3229), (270, 3247), (275, 3277), (308, 3400), (316, 3430), (334, 3508), (356, 3625), (370, 3700), (428, 3931), (467, 4075), (469, 4081), (474, 4096), (480, 4117), (495, 4198),

Gene: Galaxy_5 Start: 2701, Stop: 4644, Start Num: 41
Candidate Starts for Galaxy_5:
(Start: 41 @2701 has 66 MA's), (82, 2833), (85, 2845), (105, 2923), (127, 2989), (164, 3097), (191, 3184), (210, 3283), (240, 3463), (242, 3472), (261, 3568), (263, 3577), (264, 3580), (276, 3658), (281, 3676), (282, 3679), (302, 3745), (316, 3805), (320, 3829), (332, 3871), (334, 3883), (370, 4027), (379, 4069), (406, 4162), (428, 4255), (435, 4279), (495, 4519), (498, 4534), (513, 4603), (518, 4630),

Gene: Gibbzilla_4 Start: 1998, Stop: 3929, Start Num: 39
Candidate Starts for Gibbzilla_4:
(Start: 39 @1998 has 84 MA's), (84, 2163), (85, 2166), (87, 2175), (92, 2202), (102, 2238), (123, 2292), (154, 2394), (156, 2397), (158, 2403), (161, 2412), (165, 2421), (186, 2490), (196, 2547), (198, 2556),

(217, 2652), (235, 2742), (240, 2772), (247, 2808), (252, 2838), (256, 2853), (260, 2865), (261, 2877), (262, 2880), (269, 2925), (271, 2934), (273, 2949), (299, 3042), (307, 3078), (310, 3090), (323, 3141), (325, 3147), (333, 3171), (338, 3201), (361, 3306), (362, 3309), (373, 3363), (374, 3369), (398, 3453), (418, 3510), (467, 3684), (490, 3765), (495, 3801), (498, 3816), (500, 3822), (503, 3846), (507, 3864), (516, 3906),

Gene: Gilgamesh_46 Start: 29138, Stop: 31591, Start Num: 4
Candidate Starts for Gilgamesh_46:
(Start: 4 @29138 has 1 MA's), (16, 29252), (44, 29366), (62, 29402), (83, 29495), (89, 29537), (97, 29558), (125, 29663), (205, 29996), (211, 30023), (213, 30035), (225, 30080), (248, 30224), (359, 30728), (389, 30851), (449, 31127), (460, 31166), (462, 31184), (497, 31337),

Gene: Gisselle_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Gisselle_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (142, 2376), (158, 2418), (160, 2424), (188, 2520), (190, 2529), (198, 2574), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (261, 2910), (262, 2913), (264, 2922), (278, 3003), (284, 3030), (286, 3039), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (402, 3525), (404, 3531), (423, 3612), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Glenn_6 Start: 4717, Stop: 6726, Start Num: 39
Candidate Starts for Glenn_6:
(Start: 39 @4717 has 84 MA's), (Start: 47 @4747 has 1 MA's), (81, 4843), (84, 4873), (87, 4885), (98, 4930), (130, 5032), (131, 5041), (140, 5071), (158, 5116), (160, 5122), (176, 5173), (188, 5218), (190, 5227), (201, 5290), (208, 5323), (217, 5368), (218, 5371), (240, 5503), (244, 5518), (257, 5587), (261, 5608), (264, 5620), (274, 5689), (278, 5701), (299, 5776), (309, 5821), (316, 5848), (372, 6103), (384, 6148), (404, 6229), (411, 6259), (423, 6310), (463, 6460), (495, 6601), (513, 6685),

Gene: Glotell_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for Glotell_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (469, 4012), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: GramZayde_5 Start: 2715, Stop: 4658, Start Num: 41
Candidate Starts for GramZayde_5:
(Start: 41 @2715 has 66 MA's), (54, 2757), (82, 2847), (84, 2856), (85, 2859), (105, 2937), (126, 3000), (127, 3003), (154, 3084), (163, 3108), (191, 3198), (210, 3297), (240, 3477), (242, 3486), (249, 3528), (261, 3582), (262, 3585), (264, 3594), (276, 3672), (281, 3690), (316, 3819), (320, 3843), (332, 3885), (334, 3897), (370, 4041), (379, 4083), (406, 4176), (421, 4239), (428, 4269), (435, 4293), (487, 4482), (495, 4533), (498, 4548), (511, 4602),

Gene: Gravel_6 Start: 2893, Stop: 4863, Start Num: 41
Candidate Starts for Gravel_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: Gray_23 Start: 9166, Stop: 11841, Start Num: 5

Candidate Starts for Gray_23:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: Graynor_6 Start: 4682, Stop: 6697, Start Num: 39
Candidate Starts for Graynor_6:
(Start: 39 @4682 has 84 MA's), (46, 4709), (50, 4721), (59, 4742), (87, 4856), (96, 4898), (98, 4901), (123, 4973), (127, 4991), (130, 5003), (132, 5018), (160, 5093), (177, 5150), (188, 5189), (190, 5198), (191, 5201), (201, 5261), (208, 5294), (217, 5339), (218, 5342), (240, 5474), (261, 5579), (275, 5663), (278, 5672), (289, 5720), (309, 5792), (316, 5819), (372, 6074), (379, 6107), (380, 6110), (423, 6281), (428, 6299), (495, 6572), (513, 6656),

Gene: GreenHearts_6 Start: 4716, Stop: 6734, Start Num: 39
Candidate Starts for GreenHearts_6:
(Start: 39 @4716 has 84 MA's), (61, 4782), (Start: 63 @4785 has 1 MA's), (84, 4881), (87, 4893), (129, 5037), (130, 5040), (140, 5079), (160, 5130), (176, 5181), (178, 5190), (188, 5226), (203, 5310), (208, 5331), (218, 5379), (232, 5445), (240, 5511), (254, 5586), (261, 5616), (262, 5619), (278, 5709), (308, 5826), (309, 5829), (316, 5856), (372, 6111), (379, 6144), (405, 6240), (411, 6267), (463, 6468), (495, 6609), (498, 6624), (513, 6693),

Gene: Greenhouse_6 Start: 4685, Stop: 6703, Start Num: 39
Candidate Starts for Greenhouse_6:
(Start: 39 @4685 has 84 MA's), (61, 4751), (Start: 63 @4754 has 1 MA's), (84, 4850), (87, 4862), (129, 5006), (130, 5009), (139, 5045), (140, 5048), (160, 5099), (176, 5150), (178, 5159), (188, 5195), (203, 5279), (208, 5300), (218, 5348), (232, 5414), (240, 5480), (261, 5585), (262, 5588), (278, 5678), (308, 5795), (309, 5798), (316, 5825), (372, 6080), (379, 6113), (405, 6209), (411, 6236), (463, 6437), (495, 6578), (498, 6593), (513, 6662),

Gene: Grist_4 Start: 2408, Stop: 4429, Start Num: 27
Candidate Starts for Grist_4:
(Start: 27 @2408 has 86 MA's), (77, 2558), (84, 2603), (85, 2606), (140, 2798), (174, 2891), (193, 2960), (212, 3068), (217, 3095), (240, 3227), (241, 3233), (261, 3332), (270, 3386), (278, 3425), (316, 3569), (318, 3575), (334, 3647), (338, 3674), (343, 3722), (349, 3737), (421, 4019), (480, 4217), (483, 4232), (495, 4298), (498, 4313), (504, 4346),

Gene: HamCheese_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for HamCheese_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Hanem_23 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Hanem_23:

(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: HannahPhantana_6 Start: 2878, Stop: 4821, Start Num: 41
Candidate Starts for HannahPhantana_6:
(Start: 41 @2878 has 66 MA's), (54, 2920), (71, 2950), (82, 3010), (85, 3022), (127, 3166), (130, 3178), (155, 3250), (191, 3361), (210, 3460), (240, 3640), (242, 3649), (249, 3691), (261, 3745), (262, 3748), (264, 3757), (276, 3835), (281, 3853), (302, 3922), (316, 3982), (320, 4006), (332, 4048), (334, 4060), (370, 4204), (379, 4246), (406, 4339), (421, 4402), (428, 4432), (435, 4456), (487, 4645), (495, 4696), (498, 4711), (511, 4765),

Gene: HeadNerd_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for HeadNerd_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (130, 2334), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (186, 2508), (188, 2520), (190, 2529), (217, 2670), (240, 2805), (244, 2820), (248, 2850), (257, 2889), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Herb_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Herb_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: Hereford_6 Start: 3318, Stop: 5261, Start Num: 41
Candidate Starts for Hereford_6:
(Start: 41 @3318 has 66 MA's), (116, 3564), (129, 3612), (155, 3687), (162, 3705), (173, 3735), (210, 3897), (240, 4068), (261, 4173), (302, 4350), (316, 4410), (320, 4434), (322, 4443), (415, 4827), (428, 4884), (451, 4968), (467, 5019), (476, 5052),

Gene: Huckleberry_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Huckleberry_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (130, 2334), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (186, 2508), (188, 2520), (190, 2529), (217, 2670), (240, 2805), (244, 2820), (248, 2850), (257, 2889), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: HunterDalle_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for HunterDalle_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199,

2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: Huntingdon_6 Start: 4664, Stop: 6682, Start Num: 39
Candidate Starts for Huntingdon_6:
(Start: 39 @4664 has 84 MA's), (61, 4730), (87, 4841), (129, 4985), (130, 4988), (139, 5024), (140, 5027), (160, 5078), (176, 5129), (178, 5138), (188, 5174), (203, 5258), (208, 5279), (218, 5327), (232, 5393), (240, 5459), (261, 5564), (262, 5567), (278, 5657), (284, 5684), (308, 5774), (309, 5777), (316, 5804), (372, 6059), (379, 6092), (404, 6185), (405, 6188), (411, 6215), (463, 6416), (495, 6557), (498, 6572), (513, 6641),

Gene: Icarian_5 Start: 2585, Stop: 4600, Start Num: 27
Candidate Starts for Icarian_5:
(Start: 27 @2585 has 86 MA's), (37, 2612), (38, 2615), (69, 2690), (77, 2726), (84, 2771), (85, 2774), (123, 2900), (140, 2966), (178, 3071), (187, 3110), (193, 3131), (200, 3182), (212, 3239), (217, 3266), (240, 3398), (241, 3404), (244, 3413), (254, 3473), (261, 3503), (270, 3560), (275, 3590), (316, 3743), (334, 3821), (421, 4190), (483, 4403), (495, 4469),

Gene: Immaculata_6 Start: 4711, Stop: 6720, Start Num: 39
Candidate Starts for Immaculata_6:
(Start: 39 @4711 has 84 MA's), (Start: 47 @4741 has 1 MA's), (81, 4837), (84, 4867), (87, 4879), (98, 4924), (130, 5026), (131, 5035), (140, 5065), (158, 5110), (160, 5116), (176, 5167), (188, 5212), (190, 5221), (201, 5284), (208, 5317), (217, 5362), (218, 5365), (240, 5497), (244, 5512), (257, 5581), (261, 5602), (264, 5614), (274, 5683), (278, 5695), (299, 5770), (309, 5815), (316, 5842), (344, 5995), (372, 6097), (384, 6142), (404, 6223), (411, 6253), (423, 6304), (463, 6454), (495, 6595), (513, 6679),

Gene: IndyLu_4 Start: 2408, Stop: 4429, Start Num: 27
Candidate Starts for IndyLu_4:
(Start: 27 @2408 has 86 MA's), (77, 2558), (84, 2603), (85, 2606), (140, 2798), (174, 2891), (193, 2960), (212, 3068), (217, 3095), (240, 3227), (241, 3233), (261, 3332), (270, 3386), (278, 3425), (316, 3569), (318, 3575), (334, 3647), (338, 3674), (343, 3722), (349, 3737), (421, 4019), (480, 4217), (483, 4232), (495, 4298), (498, 4313), (504, 4346),

Gene: Jabb_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for Jabb_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (365, 3720), (465, 4080), (483, 4143), (495, 4209),

Gene: Jamun_5 Start: 2958, Stop: 4916, Start Num: 41
Candidate Starts for Jamun_5:
(Start: 41 @2958 has 66 MA's), (67, 3018), (84, 3099), (85, 3102), (105, 3180), (109, 3195), (114, 3204), (121, 3234), (127, 3261), (130, 3273), (151, 3336), (152, 3339), (155, 3345), (163, 3366), (191, 3456), (202, 3525), (210, 3555), (224, 3618), (240, 3735), (261, 3840), (263, 3849), (264, 3852), (273, 3912), (276, 3930), (281, 3948), (282, 3951), (302, 4017), (316, 4077), (320, 4101), (332, 4143), (334, 4155), (370, 4299), (379, 4341), (406, 4434), (428, 4527), (435, 4551), (487, 4740), (495, 4791), (498, 4806), (513, 4875), (516, 4896),

Gene: JanetJ_5 Start: 2916, Stop: 4856, Start Num: 41
Candidate Starts for JanetJ_5:

(Start: 41 @2916 has 66 MA's), (73, 2991), (105, 3135), (129, 3210), (139, 3249), (155, 3285), (162, 3303), (210, 3495), (240, 3666), (261, 3771), (302, 3948), (316, 4008), (320, 4032), (331, 4068), (334, 4086), (415, 4422), (451, 4563), (467, 4614), (476, 4647),

Gene: JeanClaude_4 Start: 2058, Stop: 3983, Start Num: 41
Candidate Starts for JeanClaude_4:
(Start: 41 @2058 has 66 MA's), (48, 2085), (73, 2133), (109, 2292), (130, 2355), (139, 2391), (154, 2427), (162, 2448), (172, 2475), (203, 2613), (216, 2673), (240, 2811), (242, 2820), (261, 2916), (281, 3024), (302, 3093), (351, 3303), (369, 3372), (371, 3381), (386, 3432), (412, 3540), (415, 3549), (417, 3555), (435, 3630), (442, 3654), (456, 3699), (460, 3708), (467, 3741), (476, 3774), (487, 3810), (517, 3969),

Gene: Jerole_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Jerole_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: Joann_6 Start: 4656, Stop: 6674, Start Num: 39
Candidate Starts for Joann_6:
(Start: 39 @4656 has 84 MA's), (61, 4722), (Start: 63 @4725 has 1 MA's), (84, 4821), (87, 4833), (126, 4965), (129, 4977), (130, 4980), (140, 5019), (160, 5070), (176, 5121), (178, 5130), (188, 5166), (203, 5250), (208, 5271), (218, 5319), (232, 5385), (240, 5451), (261, 5556), (262, 5559), (278, 5649), (284, 5676), (308, 5766), (309, 5769), (316, 5796), (372, 6051), (379, 6084), (405, 6180), (411, 6207), (463, 6408), (495, 6549), (498, 6564), (513, 6633),

Gene: Johnathan_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for Johnathan_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: Jovita_4 Start: 2442, Stop: 4466, Start Num: 27
Candidate Starts for Jovita_4:
(Start: 27 @2442 has 86 MA's), (38, 2475), (75, 2583), (77, 2592), (84, 2637), (85, 2640), (109, 2733), (140, 2832), (174, 2925), (193, 3000), (212, 3108), (217, 3135), (240, 3267), (241, 3273), (254, 3342), (261, 3372), (270, 3426), (316, 3609), (334, 3687), (465, 4206), (480, 4254), (483, 4269), (495, 4335),

Gene: Jumboset_6 Start: 4690, Stop: 6669, Start Num: 47
Candidate Starts for Jumboset_6:
(Start: 39 @4660 has 84 MA's), (Start: 47 @4690 has 1 MA's), (81, 4786), (84, 4816), (87, 4828), (98, 4873), (130, 4975), (131, 4984), (140, 5014), (158, 5059), (160, 5065), (176, 5116), (188, 5161), (190, 5170), (201, 5233), (208, 5266), (217, 5311), (218, 5314), (240, 5446), (244, 5461), (261, 5551), (264, 5563), (274, 5632), (278, 5644), (299, 5719), (309, 5764), (316, 5791), (371, 6043), (372, 6046), (384, 6091), (404, 6172), (411, 6202), (423, 6253), (463, 6403), (495, 6544), (513, 6628),

Gene: Juno112_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for Juno112_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496),

(334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: KHumphrey_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for KHumphrey_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (469, 4012), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Kabocha_24 Start: 9994, Stop: 12654, Start Num: 8
Candidate Starts for Kabocha_24:
(Start: 5 @9979 has 1 MA's), (Start: 8 @9994 has 14 MA's), (21, 10099), (26, 10117), (44, 10186), (75, 10276), (79, 10291), (81, 10300), (100, 10399), (101, 10402), (116, 10444), (117, 10456), (124, 10486), (132, 10519), (135, 10531), (141, 10546), (147, 10561), (159, 10594), (163, 10606), (167, 10624), (183, 10690), (195, 10762), (197, 10768), (199, 10786), (214, 10855), (227, 10909), (228, 10912), (236, 10981), (248, 11050), (266, 11128), (294, 11266), (298, 11281), (314, 11347), (334, 11446), (337, 11473), (367, 11617), (372, 11635), (376, 11659), (387, 11689), (388, 11692), (390, 11704), (391, 11713), (397, 11770), (409, 11821), (416, 11848), (418, 11854), (420, 11869), (432, 11911), (437, 11929), (446, 11947), (460, 11992), (466, 12022), (468, 12031), (472, 12043), (475, 12055), (485, 12097), (494, 12157), (495, 12160), (505, 12208), (506, 12211), (508, 12220), (515, 12253), (519, 12274), (522, 12316), (523, 12325), (524, 12385), (528, 12418), (529, 12448), (532, 12544), (535, 12583), (537, 12640),

Gene: Kalizoi_6 Start: 4660, Stop: 6669, Start Num: 39
Candidate Starts for Kalizoi_6:
(Start: 39 @4660 has 84 MA's), (Start: 47 @4690 has 1 MA's), (81, 4786), (84, 4816), (87, 4828), (98, 4873), (130, 4975), (131, 4984), (140, 5014), (158, 5059), (160, 5065), (176, 5116), (188, 5161), (190, 5170), (201, 5233), (208, 5266), (217, 5311), (218, 5314), (240, 5446), (244, 5461), (257, 5530), (261, 5551), (264, 5563), (274, 5632), (278, 5644), (299, 5719), (309, 5764), (316, 5791), (344, 5944), (372, 6046), (384, 6091), (404, 6172), (411, 6202), (423, 6253), (463, 6403), (495, 6544), (513, 6628),

Gene: Kamdara_4 Start: 2571, Stop: 4595, Start Num: 27
Candidate Starts for Kamdara_4:
(Start: 27 @2571 has 86 MA's), (37, 2598), (38, 2601), (49, 2634), (52, 2643), (69, 2676), (77, 2712), (84, 2757), (105, 2838), (123, 2886), (174, 3039), (178, 3057), (187, 3096), (200, 3168), (208, 3207), (212, 3225), (217, 3252), (240, 3384), (241, 3390), (261, 3489), (263, 3498), (270, 3546), (275, 3576), (285, 3618), (316, 3729), (322, 3762), (334, 3807), (378, 4026), (421, 4188), (437, 4254), (465, 4338), (470, 4353), (504, 4515), (509, 4533),

Gene: Kate33_4 Start: 2408, Stop: 4429, Start Num: 27
Candidate Starts for Kate33_4:
(Start: 27 @2408 has 86 MA's), (77, 2558), (84, 2603), (85, 2606), (140, 2798), (174, 2891), (193, 2960), (212, 3068), (217, 3095), (240, 3227), (241, 3233), (261, 3332), (270, 3386), (278, 3425), (316, 3569), (318, 3575), (334, 3647), (338, 3674), (343, 3722), (349, 3737), (421, 4019), (480, 4217), (483, 4232), (495, 4298), (498, 4313), (504, 4346),

Gene: Katzastrophic_4 Start: 2515, Stop: 4530, Start Num: 27
Candidate Starts for Katzastrophic_4:
(Start: 27 @2515 has 86 MA's), (37, 2542), (38, 2545), (52, 2587), (66, 2611), (75, 2647), (77, 2656), (84, 2701), (85, 2704), (87, 2713), (123, 2830), (137, 2890), (177, 2998), (200, 3103), (208, 3142), (212, 3160), (217, 3187), (219, 3193), (231, 3253), (240, 3319), (261, 3424), (262, 3427), (263, 3433),

(267, 3463), (270, 3481), (300, 3595), (316, 3664), (322, 3697), (334, 3742), (378, 3961), (465, 4273), (480, 4321), (495, 4402), (504, 4450), (509, 4468),

Gene: KendraB23_6 Start: 2893, Stop: 4863, Start Num: 41
Candidate Starts for KendraB23_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: Kenzers_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for Kenzers_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: Kepler_5 Start: 2713, Stop: 4656, Start Num: 41
Candidate Starts for Kepler_5:
(Start: 41 @2713 has 66 MA's), (54, 2755), (71, 2785), (82, 2845), (84, 2854), (85, 2857), (87, 2866), (126, 2998), (127, 3001), (154, 3082), (163, 3106), (191, 3196), (210, 3295), (240, 3475), (242, 3484), (249, 3526), (261, 3580), (262, 3583), (264, 3592), (276, 3670), (281, 3688), (316, 3817), (320, 3841), (332, 3883), (334, 3895), (370, 4039), (379, 4081), (406, 4174), (421, 4237), (428, 4267), (435, 4291), (487, 4480), (495, 4531), (498, 4546), (511, 4600),

Gene: Kieran_4 Start: 2572, Stop: 4596, Start Num: 27
Candidate Starts for Kieran_4:
(Start: 27 @2572 has 86 MA's), (37, 2599), (38, 2602), (49, 2635), (52, 2644), (69, 2677), (77, 2713), (84, 2758), (123, 2887), (174, 3040), (178, 3058), (187, 3097), (200, 3169), (208, 3208), (212, 3226), (217, 3253), (240, 3385), (241, 3391), (261, 3490), (263, 3499), (270, 3547), (275, 3577), (285, 3619), (316, 3730), (322, 3763), (334, 3808), (378, 4027), (421, 4189), (437, 4255), (465, 4339), (470, 4354), (504, 4516), (509, 4534),

Gene: KingBob_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for KingBob_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: Kittykat_3 Start: 2010, Stop: 4025, Start Num: 39
Candidate Starts for Kittykat_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (67, 2085), (82, 2163), (84, 2172), (87, 2184), (98, 2229), (130, 2331), (131, 2340), (160, 2421), (171, 2454), (177, 2478), (178, 2481), (186, 2505), (188, 2517), (190, 2526), (199, 2580), (208, 2622), (217, 2667), (218, 2670), (240, 2802), (244, 2817), (261, 2907), (264, 2919), (274, 2988), (278, 3000), (299, 3075), (309, 3120), (316, 3147), (372, 3402), (384, 3447), (402, 3522), (404, 3528), (423, 3609), (447, 3687), (463, 3759), (495, 3900), (513, 3984),

Gene: Korra_6 Start: 4666, Stop: 6675, Start Num: 39
Candidate Starts for Korra_6:

(Start: 39 @4666 has 84 MA's), (Start: 47 @4696 has 1 MA's), (81, 4792), (84, 4822), (87, 4834), (98, 4879), (130, 4981), (131, 4990), (140, 5020), (158, 5065), (160, 5071), (176, 5122), (188, 5167), (190, 5176), (201, 5239), (208, 5272), (217, 5317), (218, 5320), (240, 5452), (244, 5467), (257, 5536), (261, 5557), (264, 5569), (274, 5638), (278, 5650), (299, 5725), (309, 5770), (316, 5797), (344, 5950), (372, 6052), (384, 6097), (404, 6178), (411, 6208), (423, 6259), (463, 6409), (495, 6550), (513, 6634),

Gene: Kuleana_5 Start: 2687, Stop: 4621, Start Num: 41
Candidate Starts for Kuleana_5:
(Start: 41 @2687 has 66 MA's), (65, 2741), (85, 2828), (109, 2921), (130, 2984), (142, 3026), (166, 3083), (190, 3161), (210, 3263), (240, 3443), (249, 3494), (261, 3548), (262, 3551), (264, 3560), (273, 3620), (276, 3638), (281, 3656), (312, 3770), (316, 3785), (320, 3809), (334, 3863), (370, 4004), (379, 4046), (406, 4139), (428, 4232), (435, 4256), (456, 4331), (495, 4496), (498, 4511), (503, 4541),

Gene: Kumotta_4 Start: 2487, Stop: 4460, Start Num: 36
Candidate Starts for Kumotta_4:
(31, 2475), (Start: 36 @2487 has 2 MA's), (43, 2517), (54, 2550), (75, 2601), (81, 2625), (85, 2658), (98, 2712), (123, 2784), (130, 2814), (131, 2823), (132, 2829), (148, 2871), (154, 2886), (166, 2922), (167, 2925), (195, 3036), (199, 3057), (201, 3066), (209, 3102), (212, 3117), (216, 3138), (240, 3276), (260, 3369), (261, 3381), (270, 3435), (286, 3510), (309, 3594), (316, 3621), (320, 3645), (332, 3687), (353, 3783), (364, 3828), (369, 3852), (371, 3861), (379, 3897), (380, 3900), (385, 3912), (404, 3987), (415, 4029), (421, 4056), (435, 4110), (460, 4185), (467, 4218), (476, 4251), (517, 4446),

Gene: Lahqtemish_4 Start: 2406, Stop: 4427, Start Num: 27
Candidate Starts for Lahqtemish_4:
(Start: 27 @2406 has 86 MA's), (77, 2556), (84, 2601), (85, 2604), (109, 2697), (174, 2889), (193, 2958), (212, 3066), (217, 3093), (240, 3225), (241, 3231), (254, 3300), (261, 3330), (270, 3384), (278, 3423), (316, 3567), (334, 3645), (338, 3672), (378, 3855), (421, 4017), (480, 4215), (483, 4230), (495, 4296), (504, 4344),

Gene: Lakshmi_6 Start: 4692, Stop: 6710, Start Num: 39
Candidate Starts for Lakshmi_6:
(Start: 39 @4692 has 84 MA's), (61, 4758), (Start: 63 @4761 has 1 MA's), (87, 4869), (129, 5013), (130, 5016), (140, 5055), (160, 5106), (176, 5157), (178, 5166), (188, 5202), (203, 5286), (208, 5307), (218, 5355), (232, 5421), (240, 5487), (261, 5592), (262, 5595), (278, 5685), (284, 5712), (308, 5802), (309, 5805), (316, 5832), (372, 6087), (379, 6120), (405, 6216), (411, 6243), (463, 6444), (495, 6585), (498, 6600), (513, 6669),

Gene: Laphuphu24k_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for Laphuphu24k_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Lasagna_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Lasagna_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Lennox_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Lennox_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (371, 3402), (372, 3405), (384, 3450), (402, 3525), (404, 3531), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Lenoshki_22 Start: 8807, Stop: 11467, Start Num: 8
Candidate Starts for Lenoshki_22:
(Start: 5 @8792 has 1 MA's), (Start: 8 @8807 has 14 MA's), (21, 8912), (26, 8930), (44, 8999), (75, 9089), (79, 9104), (81, 9113), (100, 9212), (101, 9215), (116, 9257), (117, 9269), (124, 9299), (132, 9332), (135, 9344), (141, 9359), (147, 9374), (159, 9407), (163, 9419), (167, 9437), (183, 9503), (195, 9575), (197, 9581), (199, 9599), (214, 9668), (227, 9722), (228, 9725), (236, 9794), (248, 9863), (266, 9941), (294, 10079), (298, 10094), (334, 10259), (337, 10286), (372, 10448), (376, 10472), (387, 10502), (388, 10505), (390, 10517), (391, 10526), (397, 10583), (409, 10634), (416, 10661), (418, 10667), (420, 10682), (432, 10724), (437, 10742), (446, 10760), (460, 10805), (466, 10835), (468, 10844), (472, 10856), (475, 10868), (485, 10910), (486, 10916), (494, 10970), (495, 10973), (505, 11021), (506, 11024), (508, 11033), (515, 11066), (519, 11087), (522, 11129), (523, 11138), (524, 11198), (528, 11231), (529, 11261), (531, 11321), (532, 11357), (533, 11360), (535, 11396), (537, 11453),

Gene: Leona_4 Start: 2383, Stop: 4302, Start Num: 41
Candidate Starts for Leona_4:
(Start: 41 @2383 has 66 MA's), (65, 2437), (82, 2512), (85, 2524), (98, 2578), (127, 2668), (142, 2722), (163, 2770), (164, 2773), (191, 2857), (210, 2956), (222, 3013), (230, 3067), (240, 3136), (242, 3145), (261, 3241), (262, 3244), (264, 3253), (276, 3331), (291, 3388), (316, 3478), (320, 3502), (332, 3544), (334, 3556), (370, 3694), (379, 3736), (400, 3808), (428, 3922), (435, 3946), (456, 4012), (460, 4021), (473, 4072), (487, 4126), (495, 4177), (498, 4192), (511, 4246),

Gene: LilStuart_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for LilStuart_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Lilo27_4 Start: 2323, Stop: 4347, Start Num: 27
Candidate Starts for Lilo27_4:
(Start: 27 @2323 has 86 MA's), (38, 2356), (75, 2464), (77, 2473), (84, 2518), (85, 2521), (109, 2614), (140, 2713), (174, 2806), (187, 2860), (193, 2881), (212, 2989), (217, 3016), (240, 3148), (241, 3154), (261, 3253), (270, 3307), (278, 3346), (316, 3490), (334, 3568), (465, 4087), (480, 4135), (483, 4150), (495, 4216),

Gene: LimaBean_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for LimaBean_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: Litotes_6 Start: 4646, Stop: 6661, Start Num: 39

Candidate Starts for Litotes_6:
(Start: 39 @4646 has 84 MA's), (46, 4673), (50, 4685), (59, 4706), (87, 4820), (96, 4862), (98, 4865), (123, 4937), (127, 4955), (130, 4967), (132, 4982), (139, 5003), (160, 5057), (163, 5066), (176, 5108), (177, 5114), (188, 5153), (190, 5162), (191, 5165), (201, 5225), (208, 5258), (217, 5303), (218, 5306), (240, 5438), (261, 5543), (278, 5636), (289, 5684), (309, 5756), (316, 5783), (372, 6038), (379, 6071), (423, 6245), (428, 6263), (495, 6536), (513, 6620),

Gene: LittleTokyo_5 Start: 2662, Stop: 4599, Start Num: 41
Candidate Starts for LittleTokyo_5:
(Start: 39 @2656 has 84 MA's), (Start: 41 @2662 has 66 MA's), (65, 2716), (70, 2731), (84, 2800), (85, 2803), (119, 2926), (149, 3019), (162, 3049), (190, 3139), (191, 3142), (202, 3211), (210, 3241), (240, 3421), (242, 3430), (261, 3526), (276, 3616), (291, 3673), (316, 3763), (320, 3787), (332, 3829), (334, 3841), (369, 3979), (371, 3988), (406, 4117), (408, 4129), (421, 4180), (428, 4210), (433, 4231), (473, 4369), (487, 4423), (495, 4474), (498, 4489), (503, 4519), (512, 4549),

Gene: Loviatar_4 Start: 2596, Stop: 4611, Start Num: 27
Candidate Starts for Loviatar_4:
(1, 2308), (Start: 27 @2596 has 86 MA's), (37, 2623), (38, 2626), (69, 2701), (77, 2737), (84, 2782), (85, 2785), (123, 2911), (140, 2977), (178, 3082), (200, 3193), (212, 3250), (217, 3277), (240, 3409), (241, 3415), (254, 3484), (261, 3514), (263, 3523), (270, 3571), (275, 3601), (316, 3754), (334, 3832), (465, 4351), (483, 4414), (495, 4480), (509, 4546), (513, 4564),

Gene: Lucy_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for Lucy_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (81, 2136), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (131, 2334), (132, 2340), (137, 2355), (140, 2364), (158, 2409), (160, 2415), (177, 2472), (178, 2475), (188, 2511), (190, 2520), (201, 2583), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (278, 2994), (289, 3042), (299, 3069), (309, 3114), (316, 3141), (334, 3219), (359, 3336), (371, 3393), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (495, 3894), (513, 3978),

Gene: Lunar_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Lunar_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: Lynlen_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for Lynlen_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: Maja_4 Start: 2483, Stop: 4399, Start Num: 41
Candidate Starts for Maja_4:
(Start: 41 @2483 has 66 MA's), (85, 2624), (105, 2702), (129, 2777), (162, 2873), (172, 2900), (240, 3236), (261, 3341), (264, 3353), (281, 3449), (302, 3518), (316, 3578), (321, 3605), (333, 3650), (351, 3728), (369, 3791), (371, 3800), (381, 3836), (415, 3965), (421, 3992), (467, 4157), (476, 4190), (517, 4385),

Gene: Makoto_3 Start: 2010, Stop: 4028, Start Num: 39

Candidate Starts for Makoto_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (195, 2562), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (322, 3183), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: MamaPearl_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for MamaPearl_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (139, 2361), (140, 2364), (160, 2415), (177, 2472), (188, 2511), (190, 2520), (201, 2583), (206, 2607), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (274, 2982), (278, 2994), (302, 3081), (309, 3114), (316, 3141), (322, 3174), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (470, 3774), (495, 3894), (513, 3978),

Gene: MargaretKali_5 Start: 2564, Stop: 4480, Start Num: 41
Candidate Starts for MargaretKali_5:
(Start: 41 @2564 has 66 MA's), (48, 2591), (51, 2600), (73, 2639), (82, 2693), (84, 2702), (98, 2759), (116, 2810), (129, 2858), (139, 2897), (154, 2933), (162, 2954), (201, 3107), (202, 3116), (240, 3317), (247, 3353), (261, 3422), (262, 3425), (267, 3458), (281, 3530), (302, 3599), (312, 3644), (316, 3659), (320, 3683), (322, 3692), (351, 3809), (364, 3848), (369, 3872), (371, 3881), (383, 3920), (401, 3995), (404, 4007), (415, 4049), (421, 4076), (435, 4130), (438, 4145), (442, 4154), (444, 4160), (467, 4238), (476, 4271), (513, 4442), (517, 4466),

Gene: Maria1952_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Maria1952_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: MeganNoll_6 Start: 4717, Stop: 6726, Start Num: 39
Candidate Starts for MeganNoll_6:
(Start: 39 @4717 has 84 MA's), (Start: 47 @4747 has 1 MA's), (81, 4843), (84, 4873), (87, 4885), (98, 4930), (130, 5032), (131, 5041), (140, 5071), (158, 5116), (160, 5122), (176, 5173), (188, 5218), (190, 5227), (201, 5290), (208, 5323), (217, 5368), (218, 5371), (240, 5503), (244, 5518), (257, 5587), (261, 5608), (264, 5620), (274, 5689), (278, 5701), (299, 5776), (309, 5821), (316, 5848), (371, 6100), (372, 6103), (384, 6148), (404, 6229), (411, 6259), (423, 6310), (463, 6460), (495, 6601), (513, 6685),

Gene: Melons_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Melons_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: Mikronejon_23 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Mikronejon_23:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195,

9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: Milomuff_5 Start: 2686, Stop: 4710, Start Num: 27
Candidate Starts for Milomuff_5:
(Start: 27 @2686 has 86 MA's), (38, 2719), (75, 2827), (77, 2836), (84, 2881), (85, 2884), (109, 2977), (140, 3076), (174, 3169), (193, 3244), (212, 3352), (217, 3379), (240, 3511), (241, 3517), (254, 3586), (261, 3616), (270, 3670), (278, 3709), (316, 3853), (334, 3931), (465, 4450), (483, 4513), (495, 4579),

Gene: MintFritos_22 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for MintFritos_22:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (336, 10642), (337, 10660), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: Misaeng_6 Start: 4729, Stop: 6747, Start Num: 39
Candidate Starts for Misaeng_6:
(Start: 39 @4729 has 84 MA's), (61, 4795), (Start: 63 @4798 has 1 MA's), (87, 4906), (129, 5050), (130, 5053), (140, 5092), (160, 5143), (176, 5194), (178, 5203), (188, 5239), (203, 5323), (208, 5344), (218, 5392), (232, 5458), (240, 5524), (261, 5629), (262, 5632), (278, 5722), (284, 5749), (308, 5839), (309, 5842), (316, 5869), (372, 6124), (379, 6157), (404, 6250), (405, 6253), (411, 6280), (463, 6481), (495, 6622), (498, 6637), (513, 6706),

Gene: Moki_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Moki_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (139, 2370), (140, 2373), (160, 2424), (176, 2475), (178, 2484), (190, 2529), (201, 2592), (206, 2616), (217, 2670), (240, 2805), (244, 2820), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (371, 3402), (372, 3405), (384, 3450), (404, 3531), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Morrey_7 Start: 3139, Stop: 5082, Start Num: 41
Candidate Starts for Morrey_7:
(Start: 41 @3139 has 66 MA's), (116, 3385), (129, 3433), (155, 3508), (162, 3526), (173, 3556), (210, 3718), (240, 3889), (261, 3994), (302, 4171), (316, 4231), (320, 4255), (322, 4264), (415, 4648), (428, 4705), (451, 4789), (467, 4840), (476, 4873),

Gene: MrBoss_6 Start: 4646, Stop: 6661, Start Num: 39
Candidate Starts for MrBoss_6:
(Start: 39 @4646 has 84 MA's), (46, 4673), (50, 4685), (59, 4706), (87, 4820), (96, 4862), (98, 4865), (123, 4937), (127, 4955), (130, 4967), (132, 4982), (139, 5003), (160, 5057), (163, 5066), (176, 5108),

(177, 5114), (188, 5153), (190, 5162), (191, 5165), (201, 5225), (208, 5258), (217, 5303), (218, 5306), (240, 5438), (261, 5543), (278, 5636), (289, 5684), (309, 5756), (316, 5783), (372, 6038), (379, 6071), (380, 6074), (423, 6245), (428, 6263), (495, 6536), (513, 6620),

Gene: MrGloopy_6 Start: 4650, Stop: 6659, Start Num: 39
Candidate Starts for MrGloopy_6:
(Start: 39 @4650 has 84 MA's), (Start: 47 @4680 has 1 MA's), (81, 4776), (84, 4806), (87, 4818), (98, 4863), (130, 4965), (131, 4974), (140, 5004), (158, 5049), (160, 5055), (176, 5106), (188, 5151), (190, 5160), (201, 5223), (208, 5256), (217, 5301), (218, 5304), (240, 5436), (244, 5451), (257, 5520), (261, 5541), (264, 5553), (274, 5622), (278, 5634), (299, 5709), (309, 5754), (316, 5781), (371, 6033), (372, 6036), (384, 6081), (404, 6162), (411, 6192), (423, 6243), (463, 6393), (495, 6534), (513, 6618),

Gene: MsUbiquitous_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for MsUbiquitous_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (365, 3720), (465, 4080), (483, 4143), (495, 4209),

Gene: Nancia_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Nancia_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (74, 2118), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (139, 2370), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (463, 3762), (495, 3903), (513, 3987),

Gene: Niblet_5 Start: 2684, Stop: 4648, Start Num: 41
Candidate Starts for Niblet_5:
(Start: 41 @2684 has 66 MA's), (71, 2756), (85, 2828), (114, 2930), (127, 2972), (130, 2984), (151, 3047), (152, 3050), (155, 3056), (163, 3077), (191, 3167), (202, 3236), (210, 3266), (240, 3446), (242, 3455), (261, 3551), (262, 3554), (264, 3563), (273, 3623), (276, 3641), (281, 3659), (302, 3728), (316, 3788), (320, 3812), (332, 3854), (334, 3866), (370, 4031), (379, 4073), (402, 4154), (406, 4166), (428, 4259), (433, 4280), (435, 4283), (456, 4358), (461, 4373), (495, 4523), (498, 4538), (516, 4628),

Gene: Nicky22_5 Start: 2791, Stop: 4815, Start Num: 27
Candidate Starts for Nicky22_5:
(Start: 27 @2791 has 86 MA's), (38, 2824), (75, 2932), (77, 2941), (84, 2986), (85, 2989), (109, 3082), (140, 3181), (174, 3274), (187, 3328), (193, 3349), (212, 3457), (217, 3484), (240, 3616), (241, 3622), (254, 3691), (261, 3721), (270, 3775), (278, 3814), (316, 3958), (334, 4036), (465, 4555), (483, 4618), (489, 4648), (495, 4684),

Gene: NoSwimming_6 Start: 4163, Stop: 6127, Start Num: 30
Candidate Starts for NoSwimming_6:
(Start: 30 @4163 has 2 MA's), (69, 4274), (80, 4313), (82, 4340), (85, 4352), (95, 4400), (136, 4532), (140, 4544), (191, 4697), (234, 4919), (240, 4955), (270, 5114), (280, 5165), (296, 5219), (332, 5363), (333, 5369), (353, 5471), (369, 5534), (397, 5630), (398, 5633), (428, 5759), (441, 5798), (498, 6017), (515, 6098),

Gene: Nubia_6 Start: 4652, Stop: 6670, Start Num: 39
Candidate Starts for Nubia_6:
(Start: 39 @4652 has 84 MA's), (61, 4718), (Start: 63 @4721 has 1 MA's), (84, 4817), (87, 4829), (129, 4973), (130, 4976), (140, 5015), (160, 5066), (176, 5117), (178, 5126), (188, 5162), (203, 5246), (208,

5267), (218, 5315), (232, 5381), (240, 5447), (254, 5522), (261, 5552), (262, 5555), (278, 5645), (284, 5672), (308, 5762), (309, 5765), (316, 5792), (372, 6047), (379, 6080), (405, 6176), (411, 6203), (463, 6404), (495, 6545), (498, 6560), (513, 6629),

Gene: OMalley_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for OMalley_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: Olliecat_4 Start: 2543, Stop: 4600, Start Num: 27
Candidate Starts for Olliecat_4:
(Start: 27 @2543 has 86 MA's), (68, 2657), (75, 2684), (77, 2693), (84, 2738), (87, 2750), (123, 2864), (128, 2888), (163, 2984), (164, 2987), (173, 3014), (177, 3032), (199, 3134), (206, 3167), (216, 3215), (240, 3353), (260, 3446), (261, 3458), (263, 3467), (270, 3512), (273, 3530), (286, 3587), (309, 3668), (312, 3680), (316, 3695), (334, 3773), (379, 4010), (384, 4022), (427, 4193), (450, 4280), (465, 4343), (473, 4367), (480, 4391), (483, 4406), (489, 4442), (495, 4478), (509, 4544),

Gene: OnionKnight_3 Start: 1799, Stop: 4105, Start Num: 63
Candidate Starts for OnionKnight_3:
(3, 1499), (24, 1664), (35, 1709), (53, 1775), (Start: 63 @1799 has 1 MA's), (74, 1838), (78, 1853), (81, 1865), (90, 1940), (94, 1955), (103, 1985), (106, 1997), (116, 2018), (132, 2099), (133, 2105), (161, 2180), (163, 2186), (168, 2207), (169, 2210), (170, 2213), (177, 2243), (180, 2252), (181, 2255), (186, 2285), (192, 2312), (204, 2393), (223, 2474), (229, 2522), (247, 2639), (250, 2660), (254, 2678), (255, 2681), (260, 2696), (276, 2792), (295, 2864), (305, 2894), (308, 2918), (313, 2939), (319, 2966), (324, 2987), (346, 3122), (352, 3134), (386, 3302), (393, 3335), (396, 3359), (403, 3398), (424, 3491), (425, 3497), (440, 3587), (445, 3608), (459, 3665), (462, 3689), (465, 3698), (482, 3761), (488, 3800), (495, 3842), (521, 3992), (525, 4079),

Gene: Oogie_23 Start: 8833, Stop: 11493, Start Num: 8
Candidate Starts for Oogie_23:
(Start: 5 @8818 has 1 MA's), (Start: 8 @8833 has 14 MA's), (21, 8938), (44, 9025), (75, 9115), (79, 9130), (81, 9139), (100, 9238), (101, 9241), (116, 9283), (117, 9295), (124, 9325), (132, 9358), (135, 9370), (141, 9385), (147, 9400), (159, 9433), (163, 9445), (167, 9463), (183, 9529), (195, 9601), (197, 9607), (199, 9625), (214, 9694), (227, 9748), (228, 9751), (236, 9820), (248, 9889), (266, 9967), (294, 10105), (298, 10120), (334, 10285), (337, 10312), (372, 10474), (376, 10498), (387, 10528), (388, 10531), (390, 10543), (391, 10552), (397, 10609), (409, 10660), (416, 10687), (418, 10693), (420, 10708), (432, 10750), (437, 10768), (446, 10786), (460, 10831), (466, 10861), (468, 10870), (472, 10882), (475, 10894), (485, 10936), (486, 10942), (494, 10996), (495, 10999), (505, 11047), (506, 11050), (508, 11059), (515, 11092), (519, 11113), (522, 11155), (523, 11164), (524, 11224), (528, 11257), (529, 11287), (531, 11347), (532, 11383), (533, 11386), (535, 11422), (537, 11479),

Gene: Oppalora_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for Oppalora_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (469, 4012), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Orcanus_5 Start: 2686, Stop: 4656, Start Num: 41

Candidate Starts for Orcanus_5:
(Start: 41 @2686 has 66 MA's), (85, 2830), (121, 2962), (127, 2989), (130, 3001), (146, 3052), (151, 3064), (152, 3067), (155, 3073), (163, 3094), (191, 3184), (210, 3283), (240, 3463), (242, 3472), (261, 3568), (262, 3571), (264, 3580), (273, 3640), (276, 3658), (281, 3676), (302, 3745), (316, 3805), (320, 3829), (332, 3871), (334, 3883), (360, 3997), (370, 4045), (379, 4087), (428, 4273), (447, 4333), (456, 4366), (473, 4426), (495, 4531), (511, 4600), (513, 4615), (516, 4636),

Gene: OtsoOtso_5 Start: 2714, Stop: 4657, Start Num: 41
Candidate Starts for OtsoOtso_5:
(Start: 41 @2714 has 66 MA's), (54, 2756), (71, 2786), (82, 2846), (84, 2855), (85, 2858), (87, 2867), (126, 2999), (127, 3002), (154, 3083), (163, 3107), (191, 3197), (210, 3296), (240, 3476), (242, 3485), (249, 3527), (261, 3581), (262, 3584), (264, 3593), (276, 3671), (281, 3689), (316, 3818), (320, 3842), (332, 3884), (334, 3896), (370, 4040), (379, 4082), (406, 4175), (421, 4238), (428, 4268), (435, 4292), (487, 4481), (495, 4532), (498, 4547), (511, 4601),

Gene: OurGirlNessie_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for OurGirlNessie_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (81, 2136), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (131, 2334), (132, 2340), (137, 2355), (140, 2364), (158, 2409), (160, 2415), (177, 2472), (178, 2475), (190, 2520), (201, 2583), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (251, 2856), (257, 2880), (261, 2901), (264, 2913), (278, 2994), (289, 3042), (299, 3069), (309, 3114), (316, 3141), (334, 3219), (359, 3336), (371, 3393), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (495, 3894), (513, 3978),

Gene: Oxynfrius_6 Start: 4665, Stop: 6683, Start Num: 39
Candidate Starts for Oxynfrius_6:
(Start: 39 @4665 has 84 MA's), (61, 4731), (Start: 63 @4734 has 1 MA's), (84, 4830), (87, 4842), (129, 4986), (130, 4989), (140, 5028), (160, 5079), (176, 5130), (178, 5139), (188, 5175), (203, 5259), (208, 5280), (218, 5328), (232, 5394), (240, 5460), (261, 5565), (262, 5568), (278, 5658), (284, 5685), (308, 5775), (309, 5778), (316, 5805), (372, 6060), (379, 6093), (405, 6189), (411, 6216), (463, 6417), (495, 6558), (498, 6573), (513, 6642),

Gene: PFR1_03 Start: 2000, Stop: 4156, Start Num: 25
Candidate Starts for PFR1_03:
(25, 2000), (32, 2027), (45, 2072), (77, 2165), (82, 2201), (84, 2210), (92, 2249), (93, 2255), (114, 2315), (120, 2339), (123, 2342), (150, 2435), (158, 2453), (161, 2462), (163, 2468), (175, 2498), (196, 2600), (198, 2609), (201, 2627), (218, 2708), (226, 2729), (238, 2810), (240, 2825), (254, 2900), (256, 2906), (260, 2918), (265, 2945), (268, 2972), (273, 3005), (275, 3017), (293, 3083), (299, 3098), (301, 3107), (310, 3152), (311, 3155), (321, 3197), (322, 3203), (328, 3224), (339, 3287), (348, 3347), (361, 3425), (366, 3452), (371, 3473), (373, 3488), (375, 3497), (379, 3509), (395, 3599), (407, 3653), (412, 3677), (429, 3752), (435, 3773), (447, 3809), (456, 3845), (459, 3857), (461, 3869), (465, 3890), (479, 3938), (495, 4034), (498, 4049), (500, 4055), (503, 4079),

Gene: PFR2_03 Start: 2000, Stop: 4156, Start Num: 25
Candidate Starts for PFR2_03:
(25, 2000), (32, 2027), (45, 2072), (77, 2165), (82, 2201), (84, 2210), (92, 2249), (93, 2255), (114, 2315), (120, 2339), (123, 2342), (150, 2435), (158, 2453), (161, 2462), (163, 2468), (175, 2498), (196, 2600), (198, 2609), (201, 2627), (218, 2708), (226, 2729), (238, 2810), (240, 2825), (254, 2900), (256, 2906), (260, 2918), (265, 2945), (268, 2972), (273, 3005), (275, 3017), (293, 3083), (299, 3098), (301, 3107), (310, 3152), (311, 3155), (321, 3197), (322, 3203), (328, 3224), (339, 3287), (348, 3347), (361, 3425), (366, 3452), (371, 3473), (373, 3488), (375, 3497), (379, 3509), (395, 3599), (407, 3653), (412, 3677), (429, 3752), (435, 3773), (447, 3809), (456, 3845), (459, 3857), (461, 3869), (465, 3890), (479, 3938), (495, 4034), (498, 4049), (500, 4055), (503, 4079),

Gene: Pakusa_22 Start: 8923, Stop: 11583, Start Num: 8
Candidate Starts for Pakusa_22:
(Start: 5 @8908 has 1 MA's), (Start: 8 @8923 has 14 MA's), (21, 9028), (26, 9046), (44, 9115), (75, 9205), (79, 9220), (81, 9229), (100, 9328), (101, 9331), (116, 9373), (117, 9385), (124, 9415), (132, 9448), (135, 9460), (141, 9475), (147, 9490), (159, 9523), (163, 9535), (167, 9553), (183, 9619), (195, 9691), (197, 9697), (199, 9715), (214, 9784), (227, 9838), (228, 9841), (236, 9910), (248, 9979), (266, 10057), (294, 10195), (298, 10210), (314, 10276), (334, 10375), (337, 10402), (367, 10546), (372, 10564), (376, 10588), (387, 10618), (388, 10621), (390, 10633), (391, 10642), (397, 10699), (409, 10750), (416, 10777), (418, 10783), (420, 10798), (432, 10840), (437, 10858), (446, 10876), (460, 10921), (466, 10951), (468, 10960), (472, 10972), (475, 10984), (485, 11026), (494, 11086), (495, 11089), (505, 11137), (506, 11140), (508, 11149), (515, 11182), (519, 11203), (522, 11245), (523, 11254), (524, 11314), (528, 11347), (529, 11377), (532, 11473), (535, 11512), (537, 11569),

Gene: PartyCup_6 Start: 4693, Stop: 6708, Start Num: 39
Candidate Starts for PartyCup_6:
(Start: 39 @4693 has 84 MA's), (46, 4720), (50, 4732), (59, 4753), (87, 4867), (96, 4909), (98, 4912), (123, 4984), (127, 5002), (130, 5014), (139, 5050), (158, 5098), (160, 5104), (163, 5113), (176, 5155), (177, 5161), (188, 5200), (190, 5209), (191, 5212), (201, 5272), (208, 5305), (217, 5350), (218, 5353), (240, 5485), (261, 5590), (278, 5683), (289, 5731), (309, 5803), (316, 5830), (372, 6085), (379, 6118), (380, 6121), (423, 6292), (428, 6310), (495, 6583), (513, 6667),

Gene: PastaFagioli_4 Start: 2406, Stop: 4427, Start Num: 27
Candidate Starts for PastaFagioli_4:
(Start: 27 @2406 has 86 MA's), (77, 2556), (84, 2601), (85, 2604), (109, 2697), (174, 2889), (193, 2958), (212, 3066), (217, 3093), (240, 3225), (241, 3231), (254, 3300), (261, 3330), (270, 3384), (278, 3423), (316, 3567), (334, 3645), (338, 3672), (378, 3855), (421, 4017), (480, 4215), (483, 4230), (495, 4296), (498, 4311), (504, 4344),

Gene: Pecas_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for Pecas_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (187, 2853), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (465, 4080), (480, 4128), (483, 4143), (495, 4209),

Gene: Pelletreau_6 Start: 2893, Stop: 4863, Start Num: 41
Candidate Starts for Pelletreau_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: PhigPhack_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for PhigPhack_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (85, 2527), (109, 2620), (140, 2719), (174, 2812), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (254, 3229), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: PhirstandPhine_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for PhirstandPhine_6:

(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (87, 3028), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (495, 4693), (498, 4708), (511, 4762),

Gene: Phisb_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for Phisb_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (187, 2854), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: PhluffyCoco_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for PhluffyCoco_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Pigu_3 Start: 1775, Stop: 3733, Start Num: 34
Candidate Starts for Pigu_3:
(Start: 34 @1775 has 1 MA's), (72, 1874), (81, 1907), (88, 1961), (116, 2045), (123, 2066), (148, 2153), (154, 2168), (166, 2204), (167, 2207), (179, 2246), (186, 2267), (190, 2288), (191, 2291), (195, 2321), (199, 2342), (201, 2351), (209, 2387), (212, 2402), (216, 2423), (218, 2432), (240, 2561), (253, 2630), (254, 2636), (260, 2654), (261, 2666), (270, 2720), (275, 2750), (286, 2795), (316, 2906), (320, 2930), (333, 2978), (334, 2984), (353, 3056), (368, 3122), (369, 3125), (371, 3134), (415, 3302), (421, 3329), (460, 3458), (467, 3491), (474, 3512), (476, 3524), (517, 3719),

Gene: Pineda_6 Start: 2875, Stop: 4818, Start Num: 41
Candidate Starts for Pineda_6:
(Start: 41 @2875 has 66 MA's), (67, 2935), (82, 3007), (84, 3016), (85, 3019), (105, 3097), (126, 3160), (127, 3163), (154, 3244), (163, 3268), (191, 3358), (202, 3427), (210, 3457), (240, 3637), (242, 3646), (249, 3688), (261, 3742), (262, 3745), (264, 3754), (276, 3832), (281, 3850), (316, 3979), (320, 4003), (332, 4045), (334, 4057), (370, 4201), (379, 4243), (406, 4336), (421, 4399), (428, 4429), (435, 4453), (487, 4642), (495, 4693), (498, 4708), (511, 4762),

Gene: PinkFriday_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for PinkFriday_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (81, 2147), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (176, 2477), (186, 2510), (188, 2522), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (254, 2882), (261, 2912), (283, 3029), (309, 3125), (322, 3185), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (384, 3461), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (470, 3794), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: PitaDog_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for PitaDog_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (81, 2136), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (131, 2334), (132, 2340), (137, 2355), (140, 2364), (158, 2409), (160, 2415), (177, 2472), (178, 2475), (188, 2511), (190, 2520), (201, 2583), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (278, 2994), (289, 3042), (299, 3069), (309, 3114), (316, 3141), (334, 3219), (359, 3336), (371, 3393), (372, 3396), (384, 3441), (404, 3522), (463,

3753), (495, 3894), (513, 3978),

Gene: Polka_5 Start: 2714, Stop: 4657, Start Num: 41
Candidate Starts for Polka_5:
(Start: 41 @2714 has 66 MA's), (54, 2756), (71, 2786), (82, 2846), (84, 2855), (85, 2858), (87, 2867), (126, 2999), (127, 3002), (154, 3083), (163, 3107), (191, 3197), (210, 3296), (240, 3476), (242, 3485), (249, 3527), (261, 3581), (262, 3584), (264, 3593), (276, 3671), (281, 3689), (316, 3818), (320, 3842), (332, 3884), (334, 3896), (370, 4040), (379, 4082), (406, 4175), (421, 4238), (428, 4268), (435, 4292), (487, 4481), (495, 4532), (498, 4547), (511, 4601),

Gene: PondAmelia_5 Start: 2596, Stop: 4611, Start Num: 27
Candidate Starts for PondAmelia_5:
(Start: 27 @2596 has 86 MA's), (37, 2623), (38, 2626), (69, 2701), (77, 2737), (84, 2782), (85, 2785), (105, 2863), (123, 2911), (140, 2977), (178, 3082), (200, 3193), (212, 3250), (217, 3277), (240, 3409), (241, 3415), (254, 3484), (261, 3514), (263, 3523), (270, 3571), (275, 3601), (316, 3754), (334, 3832), (465, 4351), (483, 4414), (495, 4480), (509, 4546), (513, 4564),

Gene: Potatoes_6 Start: 4711, Stop: 6720, Start Num: 39
Candidate Starts for Potatoes_6:
(Start: 39 @4711 has 84 MA's), (Start: 47 @4741 has 1 MA's), (81, 4837), (84, 4867), (87, 4879), (98, 4924), (130, 5026), (131, 5035), (140, 5065), (158, 5110), (160, 5116), (176, 5167), (188, 5212), (190, 5221), (201, 5284), (208, 5317), (217, 5362), (218, 5365), (240, 5497), (244, 5512), (257, 5581), (261, 5602), (264, 5614), (274, 5683), (278, 5695), (299, 5770), (309, 5815), (316, 5842), (371, 6094), (372, 6097), (384, 6142), (404, 6223), (411, 6253), (423, 6304), (463, 6454), (495, 6595), (513, 6679),

Gene: PrairieDogTown_5 Start: 3139, Stop: 5082, Start Num: 41
Candidate Starts for PrairieDogTown_5:
(Start: 41 @3139 has 66 MA's), (116, 3385), (129, 3433), (155, 3508), (162, 3526), (173, 3556), (210, 3718), (240, 3889), (261, 3994), (302, 4171), (316, 4231), (320, 4255), (322, 4264), (415, 4648), (428, 4705), (451, 4789), (467, 4840), (476, 4873),

Gene: Preamble_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for Preamble_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (158, 2418), (160, 2424), (188, 2520), (190, 2529), (198, 2574), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (261, 2910), (262, 2913), (264, 2922), (278, 3003), (284, 3030), (286, 3039), (309, 3123), (316, 3150), (372, 3405), (384, 3450), (402, 3525), (404, 3531), (423, 3612), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Pterodactyl_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for Pterodactyl_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (81, 2136), (84, 2166), (87, 2178), (98, 2223), (130, 2325), (131, 2334), (132, 2340), (137, 2355), (140, 2364), (158, 2409), (160, 2415), (177, 2472), (178, 2475), (188, 2511), (190, 2520), (201, 2583), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (278, 2994), (289, 3042), (299, 3069), (309, 3114), (316, 3141), (334, 3219), (359, 3336), (371, 3393), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (495, 3894), (513, 3978),

Gene: Pumancara_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Pumancara_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (176, 2477), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (254,

2882), (261, 2912), (283, 3029), (309, 3125), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (384, 3461), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (491, 3878), (495, 3914), (498, 3929), (513, 3998),

Gene: QMacho_5 Start: 2799, Stop: 4823, Start Num: 27
Candidate Starts for QMacho_5:
(Start: 27 @2799 has 86 MA's), (38, 2832), (75, 2940), (77, 2949), (84, 2994), (85, 2997), (109, 3090), (140, 3189), (174, 3282), (187, 3336), (193, 3357), (212, 3465), (217, 3492), (240, 3624), (241, 3630), (254, 3699), (261, 3729), (270, 3783), (278, 3822), (316, 3966), (334, 4044), (465, 4563), (480, 4611), (483, 4626), (495, 4692),

Gene: Quenya_5 Start: 2508, Stop: 4526, Start Num: 27
Candidate Starts for Quenya_5:
(Start: 27 @2508 has 86 MA's), (37, 2535), (38, 2538), (49, 2571), (52, 2580), (66, 2604), (75, 2640), (77, 2649), (84, 2694), (85, 2697), (87, 2706), (123, 2823), (137, 2883), (177, 2994), (200, 3099), (208, 3138), (212, 3156), (217, 3183), (219, 3189), (231, 3249), (240, 3315), (261, 3420), (263, 3429), (267, 3459), (270, 3477), (284, 3543), (308, 3630), (316, 3660), (322, 3693), (334, 3738), (370, 3918), (465, 4269), (480, 4317), (495, 4398), (504, 4446), (509, 4464),

Gene: RAP15_6 Start: 4717, Stop: 6726, Start Num: 39
Candidate Starts for RAP15_6:
(Start: 39 @4717 has 84 MA's), (Start: 47 @4747 has 1 MA's), (81, 4843), (84, 4873), (87, 4885), (98, 4930), (130, 5032), (131, 5041), (140, 5071), (158, 5116), (160, 5122), (176, 5173), (188, 5218), (190, 5227), (201, 5290), (208, 5323), (217, 5368), (218, 5371), (240, 5503), (244, 5518), (257, 5587), (261, 5608), (264, 5620), (274, 5689), (278, 5701), (299, 5776), (309, 5821), (316, 5848), (371, 6100), (372, 6103), (384, 6148), (404, 6229), (411, 6259), (423, 6310), (463, 6460), (495, 6601), (513, 6685),

Gene: Rattail_4 Start: 2383, Stop: 4302, Start Num: 41
Candidate Starts for Rattail_4:
(Start: 41 @2383 has 66 MA's), (65, 2437), (82, 2512), (85, 2524), (98, 2578), (127, 2668), (142, 2722), (163, 2770), (164, 2773), (191, 2857), (210, 2956), (222, 3013), (230, 3067), (240, 3136), (242, 3145), (261, 3241), (262, 3244), (264, 3253), (276, 3331), (291, 3388), (316, 3478), (320, 3502), (332, 3544), (334, 3556), (370, 3694), (379, 3736), (400, 3808), (428, 3922), (435, 3946), (456, 4012), (460, 4021), (473, 4072), (487, 4126), (495, 4177), (498, 4192), (511, 4246),

Gene: RcigaStruga_6 Start: 4664, Stop: 6682, Start Num: 39
Candidate Starts for RcigaStruga_6:
(Start: 39 @4664 has 84 MA's), (61, 4730), (87, 4841), (129, 4985), (130, 4988), (139, 5024), (140, 5027), (160, 5078), (176, 5129), (178, 5138), (188, 5174), (203, 5258), (208, 5279), (218, 5327), (232, 5393), (240, 5459), (261, 5564), (262, 5567), (278, 5657), (284, 5684), (308, 5774), (309, 5777), (316, 5804), (372, 6059), (379, 6092), (404, 6185), (405, 6188), (411, 6215), (463, 6416), (495, 6557), (498, 6572), (513, 6641),

Gene: RedFox_4 Start: 2335, Stop: 4254, Start Num: 41
Candidate Starts for RedFox_4:
(Start: 41 @2335 has 66 MA's), (65, 2389), (82, 2464), (85, 2476), (98, 2530), (127, 2620), (142, 2674), (163, 2722), (164, 2725), (191, 2809), (210, 2908), (230, 3019), (240, 3088), (242, 3097), (261, 3193), (262, 3196), (264, 3205), (276, 3283), (281, 3301), (291, 3340), (316, 3430), (320, 3454), (332, 3496), (334, 3508), (370, 3646), (379, 3688), (400, 3760), (428, 3874), (435, 3898), (456, 3964), (460, 3973), (473, 4024), (487, 4078), (495, 4129), (498, 4144), (511, 4198),

Gene: Renna12_5 Start: 2548, Stop: 4458, Start Num: 41
Candidate Starts for Renna12_5:

(Start: 41 @2548 has 66 MA's), (65, 2602), (82, 2677), (85, 2689), (98, 2743), (127, 2833), (142, 2887), (163, 2935), (190, 3019), (191, 3022), (210, 3121), (240, 3301), (242, 3310), (261, 3406), (262, 3409), (264, 3418), (276, 3496), (281, 3514), (291, 3553), (312, 3628), (316, 3643), (320, 3667), (332, 3709), (334, 3721), (340, 3763), (370, 3850), (379, 3892), (400, 3964), (428, 4078), (435, 4102), (442, 4126), (456, 4168), (460, 4177), (473, 4228), (487, 4282), (495, 4333), (498, 4348), (511, 4402),

Gene: Riovina_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for Riovina_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (283, 3030), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: Riverdale_6 Start: 4648, Stop: 6657, Start Num: 39
Candidate Starts for Riverdale_6:
(Start: 39 @4648 has 84 MA's), (Start: 47 @4678 has 1 MA's), (81, 4774), (84, 4804), (87, 4816), (98, 4861), (130, 4963), (131, 4972), (140, 5002), (158, 5047), (160, 5053), (176, 5104), (188, 5149), (190, 5158), (201, 5221), (208, 5254), (217, 5299), (218, 5302), (240, 5434), (244, 5449), (257, 5518), (261, 5539), (264, 5551), (274, 5620), (278, 5632), (299, 5707), (309, 5752), (316, 5779), (344, 5932), (371, 6031), (372, 6034), (384, 6079), (404, 6160), (411, 6190), (423, 6241), (463, 6391), (495, 6532), (513, 6616),

Gene: Rollins_3 Start: 2230, Stop: 4281, Start Num: 27
Candidate Starts for Rollins_3:
(Start: 27 @2230 has 86 MA's), (57, 2314), (69, 2344), (75, 2371), (77, 2380), (85, 2428), (128, 2575), (134, 2605), (137, 2611), (208, 2863), (212, 2881), (217, 2908), (219, 2914), (240, 3040), (261, 3145), (263, 3154), (267, 3184), (270, 3202), (316, 3385), (332, 3451), (334, 3463), (379, 3697), (406, 3793), (467, 4030), (469, 4036), (474, 4051), (480, 4072), (495, 4153), (509, 4219),

Gene: Rona_4 Start: 2572, Stop: 4596, Start Num: 27
Candidate Starts for Rona_4:
(Start: 27 @2572 has 86 MA's), (37, 2599), (38, 2602), (49, 2635), (52, 2644), (69, 2677), (77, 2713), (84, 2758), (105, 2839), (123, 2887), (174, 3040), (178, 3058), (187, 3097), (200, 3169), (208, 3208), (212, 3226), (217, 3253), (240, 3385), (241, 3391), (261, 3490), (263, 3499), (270, 3547), (275, 3577), (285, 3619), (316, 3730), (322, 3763), (334, 3808), (378, 4027), (421, 4189), (437, 4255), (465, 4339), (470, 4354), (504, 4516), (509, 4534),

Gene: Rooter_3 Start: 1803, Stop: 3764, Start Num: 33
Candidate Starts for Rooter_3:
(Start: 33 @1803 has 2 MA's), (50, 1857), (72, 1902), (77, 1920), (81, 1935), (84, 1965), (98, 2022), (108, 2058), (123, 2094), (127, 2112), (148, 2181), (154, 2196), (166, 2232), (167, 2235), (195, 2349), (199, 2370), (201, 2379), (203, 2391), (212, 2430), (240, 2589), (260, 2682), (261, 2694), (267, 2730), (270, 2748), (286, 2823), (316, 2934), (320, 2958), (333, 3006), (369, 3153), (371, 3162), (379, 3198), (401, 3276), (410, 3312), (415, 3330), (421, 3357), (435, 3411), (443, 3438), (456, 3480), (467, 3522), (476, 3555), (487, 3591), (517, 3750),

Gene: Rozby_6 Start: 4648, Stop: 6657, Start Num: 39
Candidate Starts for Rozby_6:
(Start: 39 @4648 has 84 MA's), (Start: 47 @4678 has 1 MA's), (74, 4747), (81, 4774), (84, 4804), (87, 4816), (98, 4861), (130, 4963), (131, 4972), (140, 5002), (158, 5047), (160, 5053), (176, 5104), (188, 5149), (190, 5158), (201, 5221), (208, 5254), (217, 5299), (218, 5302), (240, 5434), (244, 5449), (257, 5518), (261, 5539), (264, 5551), (274, 5620), (278, 5632), (299, 5707), (309, 5752), (316, 5779), (371,

6031), (372, 6034), (384, 6079), (404, 6160), (411, 6190), (423, 6241), (463, 6391), (495, 6532), (513, 6616),

Gene: Ruchi_5 Start: 2958, Stop: 4898, Start Num: 41
Candidate Starts for Ruchi_5:
(Start: 41 @2958 has 66 MA's), (71, 3030), (84, 3099), (85, 3102), (109, 3195), (127, 3246), (130, 3258), (158, 3336), (163, 3351), (191, 3441), (210, 3540), (224, 3603), (240, 3720), (261, 3825), (263, 3834), (264, 3837), (273, 3897), (276, 3915), (281, 3933), (282, 3936), (302, 4002), (316, 4062), (320, 4086), (332, 4128), (334, 4140), (370, 4281), (379, 4323), (406, 4416), (428, 4509), (435, 4533), (487, 4722), (495, 4773), (498, 4788), (513, 4857), (518, 4884), (519, 4890),

Gene: SanaSana_5 Start: 2596, Stop: 4611, Start Num: 27
Candidate Starts for SanaSana_5:
(Start: 27 @2596 has 86 MA's), (37, 2623), (38, 2626), (69, 2701), (77, 2737), (84, 2782), (85, 2785), (105, 2863), (123, 2911), (140, 2977), (178, 3082), (200, 3193), (212, 3250), (217, 3277), (240, 3409), (241, 3415), (254, 3484), (261, 3514), (263, 3523), (270, 3571), (275, 3601), (316, 3754), (334, 3832), (465, 4351), (483, 4414), (495, 4480), (509, 4546), (513, 4564),

Gene: SansAfet_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for SansAfet_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: SarBear_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for SarBear_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (465, 4080), (483, 4143), (495, 4209),

Gene: Sarge_4 Start: 2058, Stop: 3983, Start Num: 41
Candidate Starts for Sarge_4:
(Start: 41 @2058 has 66 MA's), (48, 2085), (73, 2133), (109, 2292), (130, 2355), (139, 2391), (154, 2427), (162, 2448), (172, 2475), (203, 2613), (216, 2673), (240, 2811), (242, 2820), (261, 2916), (264, 2928), (281, 3024), (302, 3093), (351, 3303), (369, 3372), (371, 3381), (386, 3432), (412, 3540), (415, 3549), (417, 3555), (435, 3630), (442, 3654), (456, 3699), (460, 3708), (467, 3741), (476, 3774), (487, 3810), (517, 3969),

Gene: Savage2526_6 Start: 4711, Stop: 6720, Start Num: 39
Candidate Starts for Savage2526_6:
(Start: 39 @4711 has 84 MA's), (Start: 47 @4741 has 1 MA's), (81, 4837), (84, 4867), (87, 4879), (98, 4924), (130, 5026), (131, 5035), (140, 5065), (158, 5110), (160, 5116), (176, 5167), (188, 5212), (190, 5221), (201, 5284), (208, 5317), (217, 5362), (218, 5365), (240, 5497), (244, 5512), (257, 5581), (261, 5602), (264, 5614), (274, 5683), (278, 5695), (299, 5770), (309, 5815), (316, 5842), (344, 5995), (371, 6094), (372, 6097), (384, 6142), (404, 6223), (411, 6253), (423, 6304), (463, 6454), (495, 6595), (513, 6679),

Gene: ScarletRaider_22 Start: 10255, Stop: 12882, Start Num: 8
Candidate Starts for ScarletRaider_22:
(Start: 5 @10240 has 1 MA's), (Start: 8 @10255 has 14 MA's), (20, 10342), (21, 10357), (29, 10390), (44, 10444), (58, 10480), (72, 10516), (79, 10549), (81, 10558), (99, 10651), (100, 10657), (115, 10699), (116, 10702), (124, 10744), (132, 10777), (159, 10852), (163, 10864), (167, 10882), (183, 10948), (186, 10960), (197, 11026), (199, 11044), (228, 11170), (236, 11239), (248, 11308), (253,

11332), (266, 11386), (291, 11521), (294, 11524), (298, 11539), (337, 11731), (354, 11809), (367, 11851), (372, 11869), (387, 11923), (391, 11947), (409, 12049), (410, 12052), (413, 12064), (420, 12097), (446, 12175), (460, 12220), (464, 12247), (468, 12259), (472, 12271), (475, 12283), (485, 12325), (495, 12388), (505, 12436), (506, 12439), (508, 12448), (510, 12454), (515, 12481), (523, 12553), (527, 12634), (529, 12676), (532, 12772), (533, 12775), (535, 12811), (537, 12868),

Gene: Schomber_22 Start: 8931, Stop: 11591, Start Num: 8
Candidate Starts for Schomber_22:
(Start: 5 @8916 has 1 MA's), (Start: 8 @8931 has 14 MA's), (21, 9036), (26, 9054), (44, 9123), (75, 9213), (79, 9228), (81, 9237), (100, 9336), (101, 9339), (116, 9381), (117, 9393), (124, 9423), (132, 9456), (135, 9468), (141, 9483), (147, 9498), (159, 9531), (163, 9543), (167, 9561), (183, 9627), (195, 9699), (197, 9705), (199, 9723), (214, 9792), (227, 9846), (228, 9849), (236, 9918), (248, 9987), (266, 10065), (294, 10203), (298, 10218), (314, 10284), (334, 10383), (336, 10392), (337, 10410), (367, 10554), (372, 10572), (376, 10596), (387, 10626), (388, 10629), (390, 10641), (391, 10650), (397, 10707), (409, 10758), (416, 10785), (418, 10791), (420, 10806), (432, 10848), (437, 10866), (446, 10884), (460, 10929), (466, 10959), (468, 10968), (472, 10980), (475, 10992), (485, 11034), (494, 11094), (495, 11097), (505, 11145), (506, 11148), (508, 11157), (515, 11190), (519, 11211), (522, 11253), (523, 11262), (524, 11322), (528, 11355), (529, 11385), (531, 11445), (532, 11481), (535, 11520), (537, 11577),

Gene: Scotia_6 Start: 4163, Stop: 6127, Start Num: 30
Candidate Starts for Scotia_6:
(Start: 30 @4163 has 2 MA's), (69, 4274), (80, 4313), (82, 4340), (85, 4352), (95, 4400), (136, 4532), (140, 4544), (191, 4697), (234, 4919), (240, 4955), (270, 5114), (280, 5165), (296, 5219), (332, 5363), (333, 5369), (353, 5471), (369, 5534), (397, 5630), (398, 5633), (428, 5759), (441, 5798), (498, 6017), (515, 6098),

Gene: Scuttle_6 Start: 4717, Stop: 6726, Start Num: 39
Candidate Starts for Scuttle_6:
(Start: 39 @4717 has 84 MA's), (Start: 47 @4747 has 1 MA's), (81, 4843), (84, 4873), (87, 4885), (98, 4930), (130, 5032), (131, 5041), (140, 5071), (158, 5116), (160, 5122), (176, 5173), (188, 5218), (190, 5227), (201, 5290), (208, 5323), (217, 5368), (218, 5371), (240, 5503), (244, 5518), (257, 5587), (261, 5608), (264, 5620), (274, 5689), (278, 5701), (299, 5776), (309, 5821), (316, 5848), (344, 6001), (372, 6103), (384, 6148), (404, 6229), (411, 6259), (423, 6310), (463, 6460), (495, 6601), (513, 6685),

Gene: Sergei_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Sergei_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: Sharkboy_4 Start: 2571, Stop: 4595, Start Num: 27
Candidate Starts for Sharkboy_4:
(Start: 27 @2571 has 86 MA's), (37, 2598), (38, 2601), (49, 2634), (52, 2643), (69, 2676), (77, 2712), (84, 2757), (123, 2886), (174, 3039), (178, 3057), (187, 3096), (200, 3168), (208, 3207), (212, 3225), (217, 3252), (240, 3384), (241, 3390), (261, 3489), (263, 3498), (270, 3546), (275, 3576), (285, 3618), (316, 3729), (322, 3762), (334, 3807), (378, 4026), (421, 4188), (437, 4254), (465, 4338), (470, 4353), (504, 4515), (509, 4533),

Gene: Shayna_3 Start: 2294, Stop: 4342, Start Num: 27
Candidate Starts for Shayna_3:

(Start: 27 @2294 has 86 MA's), (68, 2405), (77, 2444), (84, 2489), (95, 2540), (140, 2684), (167, 2756), (174, 2777), (182, 2810), (212, 2957), (217, 2984), (240, 3116), (241, 3122), (252, 3182), (260, 3209), (261, 3221), (262, 3224), (263, 3230), (270, 3275), (316, 3458), (321, 3485), (322, 3491), (334, 3536), (338, 3563), (399, 3824), (483, 4145), (495, 4217), (509, 4283), (516, 4322),

Gene: Shen_6 Start: 2893, Stop: 4863, Start Num: 41
Candidate Starts for Shen_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: Shoya_3 Start: 1803, Stop: 3764, Start Num: 33
Candidate Starts for Shoya_3:
(Start: 33 @1803 has 2 MA's), (50, 1857), (72, 1902), (77, 1920), (81, 1935), (84, 1965), (98, 2022), (108, 2058), (116, 2073), (123, 2094), (127, 2112), (148, 2181), (154, 2196), (167, 2235), (195, 2349), (199, 2370), (218, 2460), (240, 2589), (260, 2682), (261, 2694), (267, 2730), (270, 2748), (274, 2775), (286, 2823), (287, 2829), (316, 2934), (320, 2958), (353, 3084), (355, 3096), (369, 3153), (371, 3162), (379, 3198), (401, 3276), (410, 3312), (415, 3330), (421, 3357), (435, 3411), (456, 3480), (467, 3522), (476, 3555), (487, 3591), (517, 3750),

Gene: SirBeanington_4 Start: 2317, Stop: 4341, Start Num: 27
Candidate Starts for SirBeanington_4:
(Start: 27 @2317 has 86 MA's), (38, 2350), (75, 2458), (77, 2467), (84, 2512), (85, 2515), (109, 2608), (140, 2707), (174, 2800), (193, 2875), (212, 2983), (217, 3010), (240, 3142), (241, 3148), (261, 3247), (270, 3301), (278, 3340), (316, 3484), (334, 3562), (465, 4081), (483, 4144), (495, 4210),

Gene: Skylord_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Skylord_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (137, 2551), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: Slay_4 Start: 2793, Stop: 4817, Start Num: 27
Candidate Starts for Slay_4:
(Start: 27 @2793 has 86 MA's), (38, 2826), (75, 2934), (77, 2943), (84, 2988), (85, 2991), (109, 3084), (140, 3183), (174, 3276), (193, 3351), (212, 3459), (217, 3486), (240, 3618), (241, 3624), (254, 3693), (261, 3723), (270, 3777), (278, 3816), (316, 3960), (334, 4038), (465, 4557), (483, 4620),

Gene: Softsoap_4 Start: 2329, Stop: 4353, Start Num: 27
Candidate Starts for Softsoap_4:
(Start: 27 @2329 has 86 MA's), (38, 2362), (75, 2470), (77, 2479), (84, 2524), (109, 2620), (140, 2719), (174, 2812), (187, 2866), (193, 2887), (212, 2995), (217, 3022), (240, 3154), (241, 3160), (261, 3259), (270, 3313), (278, 3352), (316, 3496), (334, 3574), (465, 4093), (483, 4156), (495, 4222),

Gene: Solea_5 Start: 2686, Stop: 4710, Start Num: 27
Candidate Starts for Solea_5:
(Start: 27 @2686 has 86 MA's), (38, 2719), (75, 2827), (77, 2836), (84, 2881), (85, 2884), (109, 2977), (140, 3076), (174, 3169), (193, 3244), (212, 3352), (217, 3379), (240, 3511), (241, 3517), (254, 3586), (261, 3616), (270, 3670), (278, 3709), (316, 3853), (334, 3931), (465, 4450), (483, 4513), (495, 4579),

Gene: Squircle_4 Start: 2543, Stop: 4600, Start Num: 27
Candidate Starts for Squircle_4:
(Start: 27 @2543 has 86 MA's), (68, 2657), (75, 2684), (77, 2693), (84, 2738), (87, 2750), (123, 2864), (128, 2888), (163, 2984), (164, 2987), (173, 3014), (177, 3032), (199, 3134), (206, 3167), (216, 3215), (240, 3353), (260, 3446), (261, 3458), (263, 3467), (270, 3512), (273, 3530), (286, 3587), (309, 3668), (312, 3680), (316, 3695), (334, 3773), (379, 4010), (384, 4022), (427, 4193), (450, 4280), (465, 4343), (473, 4367), (480, 4391), (483, 4406), (489, 4442), (495, 4478), (509, 4544),

Gene: Stoor_4 Start: 2593, Stop: 4608, Start Num: 27
Candidate Starts for Stoor_4:
(Start: 27 @2593 has 86 MA's), (37, 2620), (38, 2623), (69, 2698), (77, 2734), (84, 2779), (85, 2782), (123, 2908), (140, 2974), (178, 3079), (193, 3139), (212, 3247), (217, 3274), (240, 3406), (241, 3412), (254, 3481), (261, 3511), (263, 3520), (270, 3568), (275, 3598), (316, 3751), (334, 3829), (447, 4288), (465, 4348), (483, 4411), (495, 4477),

Gene: Stromboli_4 Start: 2593, Stop: 4608, Start Num: 27
Candidate Starts for Stromboli_4:
(Start: 27 @2593 has 86 MA's), (37, 2620), (38, 2623), (69, 2698), (77, 2734), (84, 2779), (85, 2782), (123, 2908), (140, 2974), (178, 3079), (193, 3139), (212, 3247), (217, 3274), (240, 3406), (241, 3412), (254, 3481), (261, 3511), (263, 3520), (270, 3568), (275, 3598), (316, 3751), (334, 3829), (447, 4288), (465, 4348), (483, 4411), (495, 4477),

Gene: StuartMinion_4 Start: 2342, Stop: 4264, Start Num: 41
Candidate Starts for StuartMinion_4:
(Start: 41 @2342 has 66 MA's), (65, 2396), (82, 2471), (85, 2483), (98, 2537), (127, 2627), (142, 2681), (191, 2816), (210, 2915), (240, 3095), (242, 3104), (261, 3200), (262, 3203), (264, 3212), (276, 3290), (291, 3347), (316, 3437), (320, 3461), (332, 3503), (334, 3515), (345, 3581), (370, 3656), (379, 3698), (384, 3710), (406, 3791), (408, 3803), (428, 3884), (435, 3908), (456, 3974), (487, 4088), (495, 4139), (498, 4154), (511, 4208),

Gene: SunnyD_3 Start: 2294, Stop: 4342, Start Num: 27
Candidate Starts for SunnyD_3:
(Start: 27 @2294 has 86 MA's), (77, 2444), (84, 2489), (95, 2540), (140, 2684), (167, 2756), (174, 2777), (182, 2810), (212, 2957), (217, 2984), (240, 3116), (241, 3122), (252, 3182), (260, 3209), (261, 3221), (262, 3224), (263, 3230), (270, 3275), (316, 3458), (321, 3485), (322, 3491), (334, 3536), (338, 3563), (399, 3824), (483, 4145), (495, 4217), (509, 4283), (516, 4322),

Gene: Supakev_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Supakev_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (176, 2477), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (254, 2882), (261, 2912), (283, 3029), (309, 3125), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (384, 3461), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (491, 3878), (495, 3914), (498, 3929), (513, 3998),

Gene: Suppi_6 Start: 4693, Stop: 6708, Start Num: 39
Candidate Starts for Suppi_6:
(Start: 39 @4693 has 84 MA's), (46, 4720), (50, 4732), (59, 4753), (87, 4867), (96, 4909), (98, 4912), (123, 4984), (127, 5002), (130, 5014), (158, 5098), (160, 5104), (163, 5113), (176, 5155), (177, 5161), (188, 5200), (190, 5209), (191, 5212), (201, 5272), (208, 5305), (217, 5350), (218, 5353), (240, 5485), (261, 5590), (278, 5683), (286, 5719), (289, 5731), (309, 5803), (316, 5830), (322, 5863), (372, 6085), (379, 6118), (380, 6121), (428, 6310), (495, 6583), (513, 6667),

Gene: Swervy_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for Swervy_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (465, 4080), (483, 4143), (495, 4209),

Gene: TattModd_6 Start: 4711, Stop: 6720, Start Num: 39
Candidate Starts for TattModd_6:
(Start: 39 @4711 has 84 MA's), (Start: 47 @4741 has 1 MA's), (81, 4837), (84, 4867), (87, 4879), (98, 4924), (130, 5026), (131, 5035), (140, 5065), (158, 5110), (160, 5116), (176, 5167), (188, 5212), (190, 5221), (201, 5284), (208, 5317), (217, 5362), (218, 5365), (240, 5497), (244, 5512), (257, 5581), (261, 5602), (264, 5614), (274, 5683), (278, 5695), (299, 5770), (309, 5815), (316, 5842), (344, 5995), (371, 6094), (372, 6097), (384, 6142), (404, 6223), (411, 6253), (423, 6304), (463, 6454), (495, 6595), (513, 6679),

Gene: TaylorSipht_5 Start: 2710, Stop: 4677, Start Num: 41
Candidate Starts for TaylorSipht_5:
(Start: 41 @2710 has 66 MA's), (67, 2770), (71, 2782), (84, 2851), (85, 2854), (87, 2863), (109, 2947), (127, 2998), (191, 3193), (196, 3226), (210, 3292), (240, 3472), (242, 3481), (261, 3577), (264, 3589), (273, 3649), (276, 3667), (281, 3685), (282, 3688), (302, 3754), (316, 3814), (320, 3838), (332, 3880), (334, 3892), (360, 4009), (370, 4057), (379, 4099), (402, 4180), (433, 4306), (456, 4384), (470, 4435), (495, 4549), (498, 4564), (516, 4654),

Gene: Teagster_3 Start: 2297, Stop: 4345, Start Num: 27
Candidate Starts for Teagster_3:
(Start: 27 @2297 has 86 MA's), (77, 2447), (84, 2492), (95, 2543), (140, 2687), (167, 2759), (174, 2780), (182, 2813), (212, 2960), (217, 2987), (240, 3119), (241, 3125), (252, 3185), (260, 3212), (261, 3224), (262, 3227), (263, 3233), (270, 3278), (316, 3461), (321, 3488), (322, 3494), (334, 3539), (338, 3566), (399, 3827), (483, 4148), (495, 4220), (509, 4286), (516, 4325),

Gene: Temper16_3 Start: 2012, Stop: 4039, Start Num: 39
Candidate Starts for Temper16_3:
(Start: 39 @2012 has 84 MA's), (Start: 47 @2042 has 1 MA's), (59, 2075), (61, 2078), (87, 2189), (98, 2234), (108, 2270), (123, 2306), (130, 2336), (131, 2345), (140, 2375), (160, 2426), (186, 2510), (188, 2522), (190, 2531), (203, 2606), (208, 2627), (217, 2672), (218, 2675), (240, 2807), (261, 2912), (283, 3029), (309, 3125), (316, 3152), (355, 3338), (358, 3353), (359, 3356), (372, 3416), (411, 3572), (428, 3641), (448, 3707), (463, 3773), (477, 3821), (495, 3914), (498, 3929), (513, 3998),

Gene: Thales_18 Start: 8025, Stop: 10796, Start Num: 8
Candidate Starts for Thales_18:
(Start: 8 @8025 has 14 MA's), (12, 8049), (21, 8127), (29, 8160), (40, 8193), (42, 8199), (58, 8250), (62, 8259), (64, 8265), (81, 8325), (91, 8394), (99, 8418), (117, 8478), (124, 8508), (130, 8526), (141, 8568), (143, 8571), (153, 8598), (159, 8616), (163, 8628), (167, 8646), (174, 8670), (179, 8691), (183, 8712), (184, 8715), (194, 8760), (199, 8808), (204, 8832), (207, 8841), (211, 8862), (214, 8877), (215, 8880), (228, 8934), (236, 9003), (237, 9006), (245, 9045), (253, 9096), (258, 9114), (267, 9171), (282, 9249), (297, 9303), (298, 9306), (304, 9327), (312, 9363), (326, 9423), (327, 9429), (329, 9444), (331, 9450), (341, 9522), (357, 9597), (367, 9672), (382, 9729), (387, 9744), (388, 9747), (391, 9768), (418, 9897), (420, 9912), (434, 9984), (439, 10026), (457, 10098), (472, 10164), (475, 10176), (484, 10209), (486, 10224), (489, 10242), (492, 10248), (505, 10329), (508, 10341), (514, 10365), (515, 10374), (520, 10416), (526, 10524), (527, 10527), (530, 10587), (532, 10662), (536, 10755), (537, 10758),

Gene: Toad24_6 Start: 2893, Stop: 4863, Start Num: 41

Candidate Starts for Toad24_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (121, 3169), (127, 3196), (130, 3208), (146, 3259), (151, 3271), (152, 3274), (155, 3280), (163, 3301), (191, 3391), (210, 3490), (240, 3670), (242, 3679), (261, 3775), (262, 3778), (264, 3787), (273, 3847), (276, 3865), (281, 3883), (302, 3952), (316, 4012), (320, 4036), (332, 4078), (334, 4090), (360, 4204), (370, 4252), (379, 4294), (428, 4480), (447, 4540), (456, 4573), (473, 4633), (495, 4738), (511, 4807), (513, 4822), (516, 4843),

Gene: Toneprano_22 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Toneprano_22:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (336, 10642), (337, 10660), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: TukTuk_4 Start: 2316, Stop: 4340, Start Num: 27
Candidate Starts for TukTuk_4:
(Start: 27 @2316 has 86 MA's), (38, 2349), (75, 2457), (77, 2466), (84, 2511), (85, 2514), (109, 2607), (140, 2706), (174, 2799), (193, 2874), (212, 2982), (217, 3009), (240, 3141), (241, 3147), (254, 3216), (261, 3246), (270, 3300), (278, 3339), (316, 3483), (334, 3561), (465, 4080), (483, 4143), (495, 4209),

Gene: Twin_22 Start: 9181, Stop: 11841, Start Num: 8
Candidate Starts for Twin_22:
(Start: 5 @9166 has 1 MA's), (Start: 8 @9181 has 14 MA's), (21, 9286), (26, 9304), (44, 9373), (75, 9463), (79, 9478), (81, 9487), (100, 9586), (101, 9589), (116, 9631), (117, 9643), (124, 9673), (132, 9706), (135, 9718), (141, 9733), (147, 9748), (159, 9781), (163, 9793), (167, 9811), (183, 9877), (195, 9949), (197, 9955), (199, 9973), (214, 10042), (227, 10096), (228, 10099), (236, 10168), (248, 10237), (266, 10315), (294, 10453), (298, 10468), (314, 10534), (334, 10633), (337, 10660), (367, 10804), (372, 10822), (376, 10846), (387, 10876), (388, 10879), (390, 10891), (391, 10900), (397, 10957), (409, 11008), (416, 11035), (418, 11041), (420, 11056), (432, 11098), (437, 11116), (446, 11134), (460, 11179), (466, 11209), (468, 11218), (472, 11230), (475, 11242), (485, 11284), (494, 11344), (495, 11347), (505, 11395), (506, 11398), (508, 11407), (515, 11440), (519, 11461), (522, 11503), (523, 11512), (524, 11572), (528, 11605), (529, 11635), (532, 11731), (535, 11770), (537, 11827),

Gene: UBSmoodge_24 Start: 10724, Stop: 13351, Start Num: 8
Candidate Starts for UBSmoodge_24:
(Start: 5 @10709 has 1 MA's), (Start: 8 @10724 has 14 MA's), (20, 10811), (21, 10826), (29, 10859), (44, 10913), (58, 10949), (72, 10985), (79, 11018), (81, 11027), (99, 11120), (100, 11126), (115, 11168), (116, 11171), (124, 11213), (132, 11246), (159, 11321), (163, 11333), (167, 11351), (183, 11417), (184, 11420), (186, 11429), (197, 11495), (199, 11513), (228, 11639), (236, 11708), (248, 11777), (253, 11801), (266, 11855), (291, 11990), (294, 11993), (298, 12008), (337, 12200), (367, 12320), (372, 12338), (387, 12392), (391, 12416), (409, 12518), (410, 12521), (413, 12533), (420, 12566), (446, 12644), (460, 12689), (464, 12716), (468, 12728), (472, 12740), (475, 12752), (485, 12794), (495, 12857), (505, 12905), (506, 12908), (508, 12917), (510, 12923), (515, 12950), (519, 12971), (523, 13022), (527, 13103), (529, 13145), (532, 13241), (535, 13280), (537, 13337),

Gene: Urla_3 Start: 2010, Stop: 4019, Start Num: 39
Candidate Starts for Urla_3:

(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2166), (87, 2178), (98, 2223), (126, 2310), (130, 2325), (131, 2334), (132, 2340), (140, 2364), (158, 2409), (160, 2415), (171, 2448), (176, 2466), (186, 2499), (188, 2511), (190, 2520), (201, 2583), (208, 2616), (217, 2661), (218, 2664), (240, 2796), (244, 2811), (257, 2880), (261, 2901), (264, 2913), (274, 2982), (283, 3018), (289, 3042), (299, 3069), (309, 3114), (316, 3141), (331, 3201), (371, 3393), (372, 3396), (384, 3441), (404, 3522), (463, 3753), (469, 3771), (495, 3894), (513, 3978),

Gene: Vallejo_6 Start: 4648, Stop: 6657, Start Num: 39
Candidate Starts for Vallejo_6:
(Start: 39 @4648 has 84 MA's), (Start: 47 @4678 has 1 MA's), (81, 4774), (84, 4804), (87, 4816), (98, 4861), (130, 4963), (131, 4972), (140, 5002), (158, 5047), (160, 5053), (176, 5104), (188, 5149), (190, 5158), (201, 5221), (208, 5254), (217, 5299), (218, 5302), (240, 5434), (244, 5449), (257, 5518), (261, 5539), (264, 5551), (274, 5620), (278, 5632), (299, 5707), (309, 5752), (316, 5779), (344, 5932), (371, 6031), (372, 6034), (384, 6079), (404, 6160), (411, 6190), (423, 6241), (463, 6391), (495, 6532), (513, 6616),

Gene: Vitas_3 Start: 2170, Stop: 4221, Start Num: 27
Candidate Starts for Vitas_3:
(Start: 27 @2170 has 86 MA's), (57, 2254), (69, 2284), (75, 2311), (77, 2320), (85, 2368), (128, 2515), (134, 2545), (137, 2551), (208, 2803), (212, 2821), (217, 2848), (219, 2854), (240, 2980), (261, 3085), (263, 3094), (267, 3124), (270, 3142), (316, 3325), (332, 3391), (334, 3403), (379, 3637), (406, 3733), (467, 3970), (469, 3976), (474, 3991), (480, 4012), (495, 4093), (509, 4159),

Gene: Vulpecula_5 Start: 3027, Stop: 4982, Start Num: 41
Candidate Starts for Vulpecula_5:
(Start: 41 @3027 has 66 MA's), (71, 3099), (84, 3168), (85, 3171), (93, 3213), (105, 3249), (109, 3264), (127, 3330), (146, 3393), (151, 3405), (152, 3408), (155, 3414), (163, 3435), (191, 3525), (210, 3624), (224, 3687), (240, 3804), (261, 3909), (263, 3918), (264, 3921), (273, 3981), (276, 3999), (281, 4017), (282, 4020), (302, 4086), (316, 4146), (320, 4170), (332, 4212), (334, 4224), (370, 4365), (379, 4407), (406, 4500), (428, 4593), (435, 4617), (487, 4806), (495, 4857), (498, 4872), (513, 4941), (516, 4962),

Gene: Vulture_3 Start: 2013, Stop: 4040, Start Num: 39
Candidate Starts for Vulture_3:
(Start: 39 @2013 has 84 MA's), (Start: 47 @2043 has 1 MA's), (59, 2076), (61, 2079), (87, 2190), (123, 2307), (126, 2322), (131, 2346), (160, 2427), (176, 2478), (186, 2511), (188, 2523), (195, 2565), (199, 2586), (203, 2607), (208, 2628), (217, 2673), (218, 2676), (240, 2808), (254, 2883), (261, 2913), (309, 3126), (316, 3153), (358, 3354), (359, 3357), (372, 3417), (411, 3573), (428, 3642), (463, 3774), (477, 3822), (495, 3915), (498, 3930), (513, 3999),

Gene: WalkingDead_4 Start: 2583, Stop: 4598, Start Num: 27
Candidate Starts for WalkingDead_4:
(10, 2460), (Start: 27 @2583 has 86 MA's), (37, 2610), (38, 2613), (69, 2688), (77, 2724), (84, 2769), (85, 2772), (105, 2850), (123, 2898), (140, 2964), (178, 3069), (200, 3180), (212, 3237), (217, 3264), (240, 3396), (241, 3402), (254, 3471), (261, 3501), (263, 3510), (270, 3558), (275, 3588), (316, 3741), (334, 3819), (465, 4338), (483, 4401), (495, 4467), (504, 4515), (509, 4533),

Gene: Wawa_6 Start: 4687, Stop: 6696, Start Num: 39
Candidate Starts for Wawa_6:
(Start: 39 @4687 has 84 MA's), (Start: 47 @4717 has 1 MA's), (81, 4813), (84, 4843), (87, 4855), (98, 4900), (130, 5002), (131, 5011), (140, 5041), (158, 5086), (160, 5092), (176, 5143), (188, 5188), (190, 5197), (201, 5260), (208, 5293), (217, 5338), (218, 5341), (240, 5473), (244, 5488), (257, 5557), (261, 5578), (264, 5590), (274, 5659), (278, 5671), (299, 5746), (309, 5791), (316, 5818), (371, 6070), (372, 6073), (384, 6118), (404, 6199), (411, 6229), (423, 6280), (463, 6430), (495, 6571), (513, 6655),

Gene: Wayne_6 Start: 4739, Stop: 6754, Start Num: 39
Candidate Starts for Wayne_6:
(Start: 39 @4739 has 84 MA's), (46, 4766), (50, 4778), (59, 4799), (84, 4901), (87, 4913), (96, 4955), (98, 4958), (123, 5030), (127, 5048), (130, 5060), (158, 5144), (160, 5150), (163, 5159), (176, 5201), (177, 5207), (188, 5246), (190, 5255), (191, 5258), (201, 5318), (208, 5351), (217, 5396), (218, 5399), (240, 5531), (261, 5636), (278, 5729), (286, 5765), (289, 5777), (309, 5849), (316, 5876), (322, 5909), (372, 6131), (379, 6164), (380, 6167), (428, 6356), (495, 6629), (513, 6713),

Gene: Westrich_6 Start: 2893, Stop: 4851, Start Num: 41
Candidate Starts for Westrich_6:
(Start: 41 @2893 has 66 MA's), (85, 3037), (105, 3115), (127, 3181), (130, 3193), (146, 3244), (151, 3256), (152, 3259), (155, 3265), (164, 3289), (191, 3376), (210, 3475), (240, 3655), (242, 3664), (261, 3760), (262, 3763), (264, 3772), (273, 3832), (276, 3850), (281, 3868), (302, 3937), (316, 3997), (320, 4021), (332, 4063), (334, 4075), (360, 4192), (370, 4240), (379, 4282), (428, 4468), (447, 4528), (456, 4561), (473, 4621), (495, 4726), (511, 4795), (513, 4810), (516, 4831),

Gene: WileyE_4 Start: 2389, Stop: 4344, Start Num: 41
Candidate Starts for WileyE_4:
(Start: 41 @2389 has 66 MA's), (67, 2449), (82, 2521), (84, 2530), (85, 2533), (105, 2611), (121, 2665), (127, 2692), (130, 2704), (151, 2767), (152, 2770), (155, 2776), (163, 2797), (191, 2887), (210, 2986), (224, 3049), (240, 3166), (261, 3271), (263, 3280), (264, 3283), (273, 3343), (276, 3361), (281, 3379), (282, 3382), (302, 3448), (316, 3508), (320, 3532), (332, 3574), (334, 3586), (370, 3727), (379, 3769), (406, 3862), (428, 3955), (435, 3979), (487, 4168), (495, 4219), (498, 4234), (513, 4303), (518, 4330), (519, 4336),

Gene: WonderBoy_3 Start: 2010, Stop: 4028, Start Num: 39
Candidate Starts for WonderBoy_3:
(Start: 39 @2010 has 84 MA's), (Start: 47 @2040 has 1 MA's), (84, 2175), (87, 2187), (98, 2232), (126, 2319), (140, 2373), (158, 2418), (160, 2424), (176, 2475), (188, 2520), (190, 2529), (201, 2592), (208, 2625), (217, 2670), (218, 2673), (239, 2793), (240, 2805), (244, 2820), (248, 2850), (261, 2910), (264, 2922), (278, 3003), (286, 3039), (302, 3090), (309, 3123), (316, 3150), (359, 3345), (372, 3405), (384, 3450), (404, 3531), (447, 3690), (463, 3762), (495, 3903), (513, 3987),

Gene: Zhuangyuan_6 Start: 3024, Stop: 4982, Start Num: 41
Candidate Starts for Zhuangyuan_6:
(Start: 39 @3018 has 84 MA's), (Start: 41 @3024 has 66 MA's), (65, 3078), (84, 3162), (85, 3165), (89, 3195), (112, 3264), (149, 3381), (166, 3423), (191, 3504), (202, 3573), (210, 3603), (240, 3783), (261, 3888), (263, 3897), (264, 3900), (276, 3978), (302, 4065), (316, 4125), (320, 4149), (332, 4191), (333, 4197), (334, 4203), (347, 4278), (369, 4362), (371, 4371), (406, 4500), (421, 4563), (433, 4614), (473, 4752), (503, 4902), (512, 4932), (518, 4968),

Gene: Zixiang_5 Start: 2684, Stop: 4648, Start Num: 41
Candidate Starts for Zixiang_5:
(Start: 41 @2684 has 66 MA's), (71, 2756), (85, 2828), (114, 2930), (127, 2972), (130, 2984), (151, 3047), (152, 3050), (155, 3056), (163, 3077), (191, 3167), (202, 3236), (210, 3266), (240, 3446), (242, 3455), (261, 3551), (262, 3554), (264, 3563), (273, 3623), (276, 3641), (281, 3659), (302, 3728), (316, 3788), (320, 3812), (332, 3854), (334, 3866), (370, 4031), (379, 4073), (402, 4154), (406, 4166), (428, 4259), (433, 4280), (435, 4283), (456, 4358), (461, 4373), (495, 4523), (498, 4538), (516, 4628),

Gene: Zorro_6 Start: 4666, Stop: 6675, Start Num: 39
Candidate Starts for Zorro_6:

(Start: 39 @4666 has 84 MA's), (Start: 47 @4696 has 1 MA's), (81, 4792), (84, 4822), (87, 4834), (98, 4879), (130, 4981), (131, 4990), (140, 5020), (158, 5065), (160, 5071), (176, 5122), (188, 5167), (190, 5176), (201, 5239), (208, 5272), (217, 5317), (218, 5320), (240, 5452), (244, 5467), (257, 5536), (261, 5557), (264, 5569), (274, 5638), (278, 5650), (299, 5725), (309, 5770), (316, 5797), (372, 6052), (384, 6097), (404, 6178), (411, 6208), (423, 6259), (463, 6409), (495, 6550), (513, 6634),