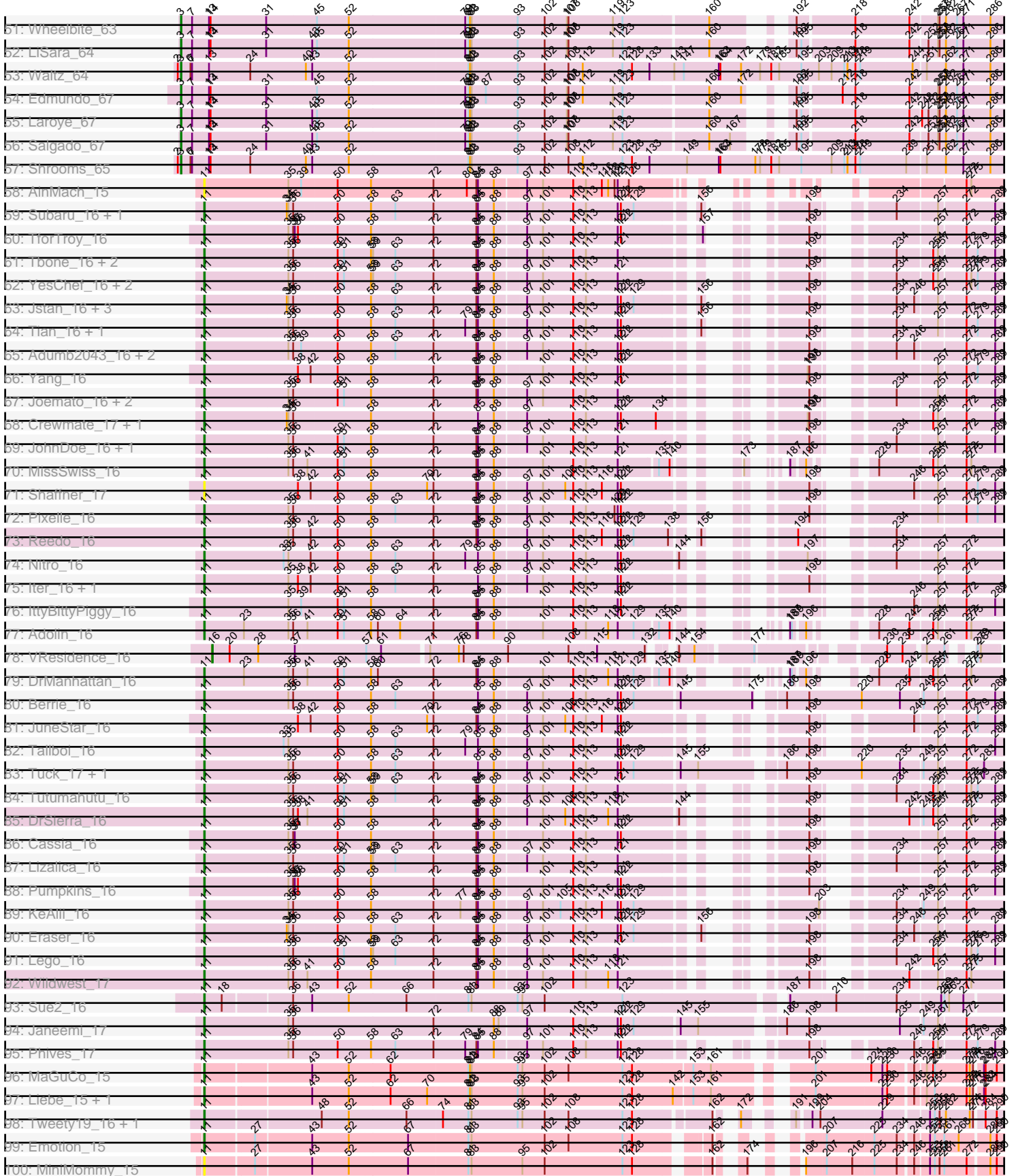
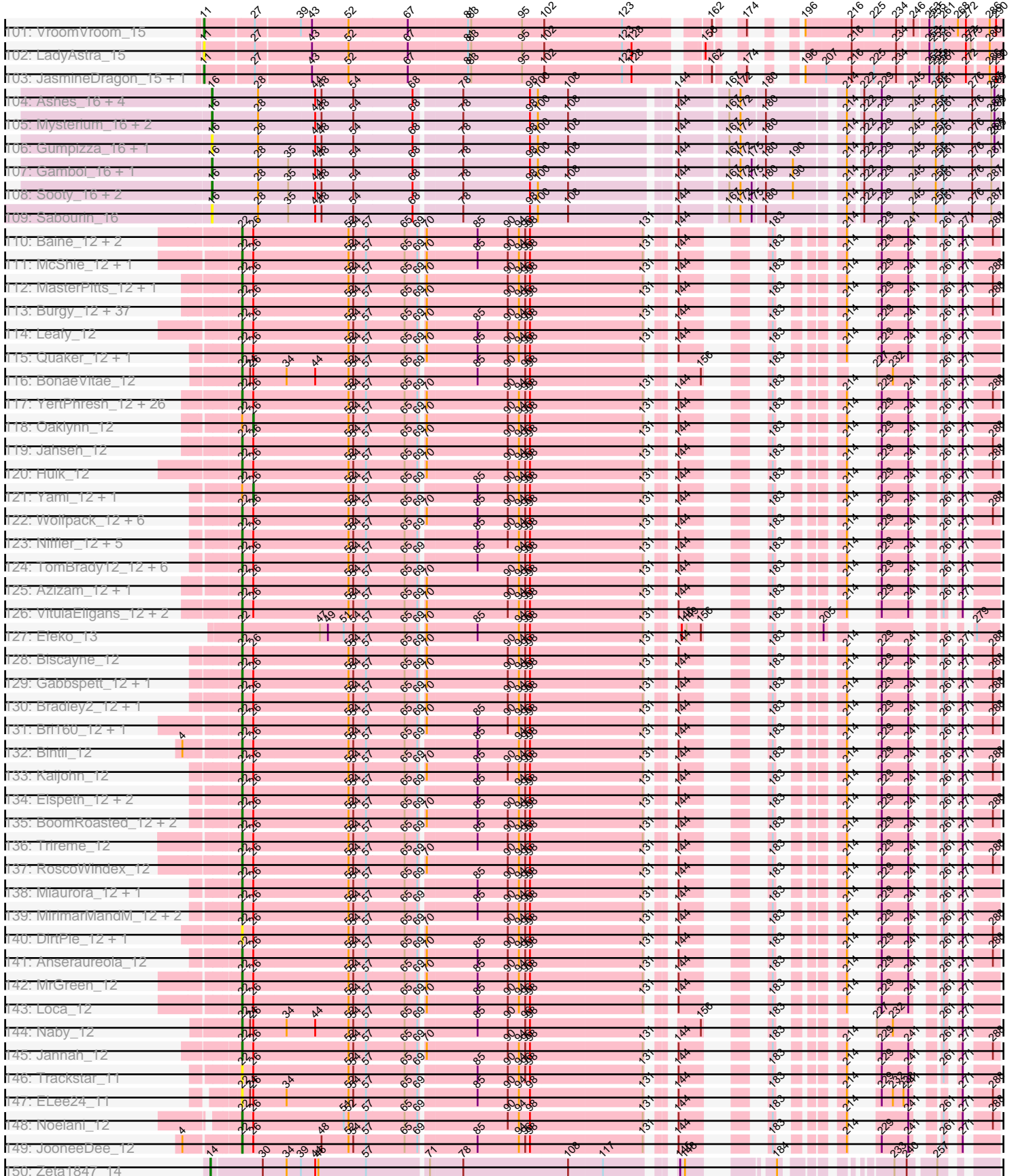


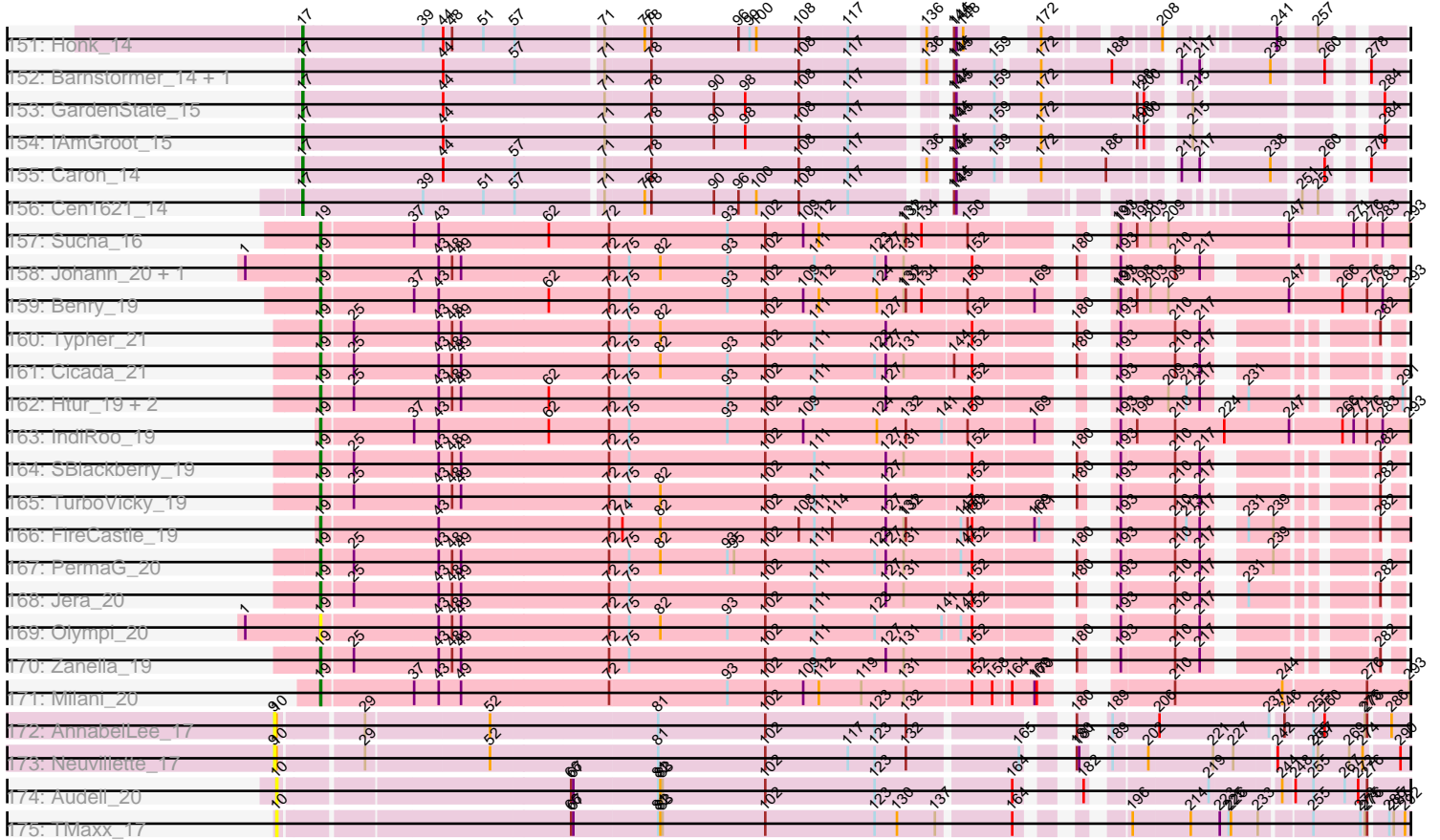
Zoomed Pham 224197



Zoomed Pham 224197



Zoomed Pham 224197



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 224197 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224197 has 343 members, 39 are drafts.

Phages represented in each track:

- Track 1 : Lasagna_14, CristinaYang_14, Nancia_14, Bodacious_14
- Track 2 : Wawa_18
- Track 3 : Greenhouse_18
- Track 4 : Cholula_18, Potatoes_18, Immaculata_18
- Track 5 : Bennie_14, Huckleberry_14, HeadNerd_14, Moki_14
- Track 6 : Fluke_18, Glenn_18, TattModd_18, Savage2526_18
- Track 7 : Korra_19
- Track 8 : Carpal_18, Zorro_18, Kalizoi_18, Dino_18
- Track 9 : Herb_14, Daiboju_14, Maria1952_14, Sergei_14, KingBob_14, Temper16_14
- Track 10 : OurGirlNessie_14
- Track 11 : PitaDog_14
- Track 12 : Lucy_14
- Track 13 : Christian_14
- Track 14 : ChewChew_14
- Track 15 : Nubia_18
- Track 16 : Gisselle_14, DreamTeam_14
- Track 17 : WonderBoy_14
- Track 18 : Kittykat_14
- Track 19 : Makoto_14
- Track 20 : EstebanJulior_14, MamaPearl_14
- Track 21 : OMalley_14, Aledel_14, Chridison_14, Eunoia_14, Riovina_14
- Track 22 : Oxyfrius_18, Albanese_18
- Track 23 : Urla_14
- Track 24 : Vallejo_18, Jumboset_18, RAP15_18, MeganNoll_18
- Track 25 : RcigaStruga_18, Huntingdon_18
- Track 26 : Pumancara_14
- Track 27 : Vulture_14, HunterDalle_14
- Track 28 : CallieOMalley_18
- Track 29 : Preamble_14
- Track 30 : AppleCider_18
- Track 31 : Supakev_14
- Track 32 : Lakshmi_18
- Track 33 : BrotherBLo_18
- Track 34 : AustinPowers_14
- Track 35 : Wayne_18, PartyCup_18
- Track 36 : GreenHearts_18

- Track 37 : DrRobert_14
- Track 38 : Joann_18
- Track 39 : Litotes_18
- Track 40 : Rozby_18
- Track 41 : MrGloopy_18
- Track 42 : Riverdale_18
- Track 43 : Suppi_18, Canowicakte_18
- Track 44 : BigMack_14
- Track 45 : Scuttle_18
- Track 46 : LilStuart_14, Lennox_14
- Track 47 : PinkFriday_14
- Track 48 : Pterodactyl_14
- Track 49 : Misaeng_18
- Track 50 : Beethoven_18
- Track 51 : Wheelbite_63
- Track 52 : LiSara_64
- Track 53 : Waltz_64
- Track 54 : Edmundo_67
- Track 55 : Laroye_67
- Track 56 : Salgado_67
- Track 57 : Shrooms_65
- Track 58 : AinMach_15
- Track 59 : Subaru_16, Elezi_16
- Track 60 : TforTroy_16
- Track 61 : Tbone_16, Mudpuppy_16, Warda_16
- Track 62 : YesChef_16, Powerpuff_16, AGrandiflora_16
- Track 63 : Jstan_16, London_16, Niobe_16, Asa16_16
- Track 64 : Tian_16, Amyev_16
- Track 65 : Adumb2043_16, Turab_16, AEgle_16
- Track 66 : Yang_16
- Track 67 : Joemato_16, Simpson_18, Kaylissa_16
- Track 68 : Crewmate_17, ObiToo_16
- Track 69 : JohnDoe_16, Cyan_16
- Track 70 : MissSwiss_16
- Track 71 : Shaffner_17
- Track 72 : Pixelle_16
- Track 73 : Reedo_16
- Track 74 : Nitro_16
- Track 75 : lter_16, Ascela_16
- Track 76 : IttyBittyPiggy_16
- Track 77 : Adolin_16
- Track 78 : VResidence_16
- Track 79 : DrManhattan_16
- Track 80 : Berrie_16
- Track 81 : JuneStar_16
- Track 82 : Tallboi_16
- Track 83 : Tuck_17, Community_16
- Track 84 : Tutumahutu_16
- Track 85 : DrSierra_16
- Track 86 : Cassia_16
- Track 87 : Lizalica_16
- Track 88 : Pumpkins_16
- Track 89 : KeAlii_16

- Track 90 : Eraser_16
- Track 91 : Lego_16
- Track 92 : Wildwest_17
- Track 93 : Sue2_16
- Track 94 : Janeemi_17
- Track 95 : Phives_17
- Track 96 : MaGuCo_15
- Track 97 : Liebe_15, Maureen_15
- Track 98 : Tweety19_16, Snek_16
- Track 99 : Emotion_15
- Track 100 : MiniMommy_15
- Track 101 : VroomVroom_15
- Track 102 : LadyAstra_15
- Track 103 : JasmineDragon_15, ShakeltOph_16
- Track 104 : Ashes_16, SpecialK_16, Halsey_16, RockScotty_16, Moss_16
- Track 105 : Mysterium_16, Beauvre_16, Giorgio_16
- Track 106 : Gumpizza_16, Stuu_17
- Track 107 : Gambol_16, Donkey_16
- Track 108 : Sooty_16, Cappuccino_16, Kalimba_16
- Track 109 : Sabourin_16
- Track 110 : Baine_12, Lola20_12, Cayde6_12
- Track 111 : McShie_12, BrokMonster_12
- Track 112 : MasterPitts_12, DaftyDuck_12
- Track 113 : Burgy_12, BinkBonk_12, Otwor_12, Ciel_12, Scamander_12, Majesty_12, BarBear_12, Kojax4_12, BurtonThePup_12, Avvas_12, Slentz_12, HeadMave_12, SantasSleigh_12, Godfather_12, Danno_12, Eightball_12, Maneater_12, Yasuo_12, TimoTea_12, JaimeB_12, NeumannU_12, LionelHutz_12, Rhogar_12, Owens_12, Josuke_12, Goobery_12, Jella_12, Cheesecake_12, Astro16_12, Sage7_12, Rhysand_12, Vanisius_12, Luxx_12, Scrunchy_12, Charbie_12, Aries55_12, TeddyBoy_12, LaviMo_12
- Track 114 : Leafy_12
- Track 115 : Quaker_12, Livingwater_12
- Track 116 : BonaeVitae_12
- Track 117 : YertPhresh_12, Danimal_12, Picnic_12, LemonPepper_12, KyriosFaba_12, Witch_12, Alucard_12, EdElric_12, Puddles3_12, Gardevoir_12, JoBros_12, Sara_12, Yubaba_12, Octopus_12, Horacetta_12, PaoPu_12, Aztec_12, Chatham_12, Minima_12, Pondwater_12, Dongwon_12, SeaWolves_12, Erin_12, Dooby_12, GoldenBlanche_12, ManAs_12, Myram_12
- Track 118 : Oaklynn_12
- Track 119 : Jahseh_12
- Track 120 : Hulk_12
- Track 121 : Yami_12, Cazares_12
- Track 122 : Wolfpack_12, Kevanna_12, MelBee03_12, Sippinontea_12, KayPaulus_12, Douggie_12, Bodhi17_12
- Track 123 : Niffler_12, PuffyCat_12, Clownery_12, Nobel_12, Lunatic_12, TinyTruffula_12
- Track 124 : TomBrady12_12, Slizam_12, Publix_12, Snuffles_13, Namsahir_12, IzzyPants24_11, Bullzi2019_12
- Track 125 : Azizam_12, JRok_12
- Track 126 : VitulaEligans_12, Madebyisha_14, Jerky_12
- Track 127 : Efeko_13
- Track 128 : Biscayne_12
- Track 129 : Gabbspett_12, Hernandez44_12

- Track 130 : Bradley2_12, Gillker_12
- Track 131 : Bri160_12, KillerTomato_12
- Track 132 : Bintii_12
- Track 133 : Kaijohn_12
- Track 134 : Elspeth_12, Ekko14_12, HarperAnne_12
- Track 135 : BoomRoasted_12, Belthelas_12, Concrete_12
- Track 136 : Trireme_12
- Track 137 : RoscoWindex_12
- Track 138 : Miaurora_12, Stem_12
- Track 139 : MirimarMandM_12, Upsilon_12, PoRanda_12
- Track 140 : DirtPie_12, Zahlia_12
- Track 141 : Anseraureola_12
- Track 142 : MrGreen_12
- Track 143 : Loca_12
- Track 144 : Naby_12
- Track 145 : Jannah_12
- Track 146 : Trackstar_11
- Track 147 : ELee24_11
- Track 148 : Noelani_12
- Track 149 : JooneeDee_12
- Track 150 : Zeta1847_14
- Track 151 : Honk_14
- Track 152 : Barnstormer_14, UtzChips_14
- Track 153 : GardenState_15
- Track 154 : IAmGroot_15
- Track 155 : Caron_14
- Track 156 : Cen1621_14
- Track 157 : Sucha_16
- Track 158 : Johann_20, Goodman_20
- Track 159 : Benry_19
- Track 160 : Typher_21
- Track 161 : Cicada_21
- Track 162 : Htur_19, Rasovi_19, Linayshia_19
- Track 163 : IndiRoo_19
- Track 164 : SBlackberry_19
- Track 165 : TurboVicky_19
- Track 166 : FireCastle_19
- Track 167 : PermaG_20
- Track 168 : Jera_20
- Track 169 : Olympi_20
- Track 170 : Zanella_19
- Track 171 : Milani_20
- Track 172 : AnnabelLee_17
- Track 173 : Neuville_17
- Track 174 : Audell_20
- Track 175 : TMaxx_17

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

The start number called the most often in the published annotations is 22, it was called in 124 of the 304 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_12, Anseraureola_12, Aries55_12, Astro16_12, Avvas_12, Azizam_12, Aztec_12, Baine_12, BarBear_12, Belthelas_12, BinkBonk_12, Bintii_12, Biscayne_12, Bodhi17_12, BonaeVitae_12, BoomRoasted_12, Bradley2_12, Bri160_12, BrokMonster_12, Bullzi2019_12, Burgy_12, BurtonThePup_12, Cayde6_12, Charbie_12, Chatham_12, Cheesecake_12, Ciel_12, Clownery_12, Concrete_12, DaftyDuck_12, Danimal_12, Danno_12, DirtPie_12, Dongwon_12, Dooby_12, Duggie_12, ELee24_11, EdElric_12, Efeke_13, Eightball_12, Ekko14_12, Elspeth_12, Erin_12, Gabbspett_12, Gardevoir_12, Gillker_12, Godfather_12, GoldenBlanche_12, Goobery_12, HarperAnne_12, HeadMave_12, Hernandez44_12, Horacetta_12, Hulk_12, IzzyPants24_11, JRok_12, Jahseh_12, JaimeB_12, Jannah_12, Jella_12, Jerky_12, JoBros_12, JooneeDee_12, Josuke_12, Kaijohn_12, KayPaulus_12, Kevanna_12, KillerTomato_12, Kojax4_12, KyriosFaba_12, LaviMo_12, Leafy_12, LemonPepper_12, LionelHutz_12, Livingwater_12, Loca_12, Lola20_12, Lunatic_12, Luxx_12, Madebyisha_14, Majesty_12, ManAs_12, Maneater_12, MasterPitts_12, McShie_12, MelBee03_12, Miaurora_12, Minima_12, MirimarMandM_12, MrGreen_12, Myram_12, Naby_12, Namsahir_12, NeumannU_12, Niffler_12, Nobel_12, Noelani_12, Octopus_12, Otwor_12, Owens_12, PaoPu_12, Picnic_12, PoRanda_12, Pondwater_12, Publix_12, Puddles3_12, PuffyCat_12, Quaker_12, Rhogar_12, Rhysand_12, RoscoWindex_12, Sage7_12, SantasSleigh_12, Sara_12, Scamander_12, Scrunchy_12, SeaWolves_12, Sippinontea_12, Slentz_12, Slizam_12, Snuffles_13, Stem_12, TeddyBoy_12, TimoTea_12, TinyTruffula_12, TomBrady12_12, Trackstar_11, Trireme_12, Upsilon_12, Vanisius_12, VitulaEligans_12, Witch_12, Wolfpack_12, Yasuo_12, YertPhresh_12, Yubaba_12, Zahlia_12,

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

- Cazares_12, Oaklynn_12, Yami_12,

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

- AEgle_16, AGrandiflora_16, Adolin_16, Adumb2043_16, AinMach_15, Albanese_18, Aledel_14, Amyev_16, AnnabelLee_17, AppleCider_18, Asa16_16, Ascela_16, Ashes_16, Audell_20, AustinPowers_14, Barnstormer_14, Beaupre_16, Beethoven_18, Bennie_14, Benry_19, Berrie_16, BigMack_14, Bodacious_14, BrotherBLo_18, CallieOMalley_18, Canowicakte_18, Cappuccino_16, Caron_14, Carpal_18, Cassia_16, Cen1621_14, ChewChew_14, Cholula_18, Chridison_14, Christian_14, Cicada_21, Community_16, Crewmate_17, CristinaYang_14, Cyan_16, Daiboju_14, Dino_18, Donkey_16, DrManhattan_16, DrRobert_14, DrSierra_16, DreamTeam_14, Edmundo_67, Elezi_16, Emotion_15, Eraser_16, EstebanJulior_14, Eunoia_14, FireCastle_19, Fluke_18, Gambol_16, GardenState_15, Giorgio_16, Gisselle_14, Glenn_18, Goodman_20, GreenHearts_18, Greenhouse_18, Gumpizza_16, Halsey_16, HeadNerd_14, Herb_14, Honk_14, Htur_19, Huckleberry_14, HunterDalle_14, Huntingdon_18, IAmGroot_15, Immaculata_18, IndiRoo_19, Iter_16, IttyBittyPiggy_16, Janeemi_17, JasmineDragon_15, Jera_20, Joann_18, Joemato_16, Johann_20, JohnDoe_16, Jstan_16, Jumboset_18, JuneStar_16, Kalimba_16, Kalizoi_18, Kaylissa_16, KeAlii_16, KingBob_14, Kittykat_14, Korra_19, LadyAstra_15, Lakshmi_18, Laroye_67, Lasagna_14, Lego_16, Lennox_14, LiSara_64, Liebe_15, LilStuart_14, Linayshia_19, Litotes_18, Lizalica_16, London_16, Lucy_14, MaGuCo_15, Makoto_14, MamaPearl_14, Maria1952_14, Maureen_15, MeganNoll_18, Milani_20, MiniMommy_15,

Misaeng_18, MissSwiss_16, Moki_14, Moss_16, MrGloopy_18, Mudpuppy_16, Mysterium_16, Nancia_14, Neuville_17, Niobe_16, Nitro_16, Nubia_18, OMalley_14, ObiToo_16, Olympi_20, OurGirlNessie_14, Oxynfrius_18, PartyCup_18, PermaG_20, Phives_17, PinkFriday_14, PitaDog_14, Pixelle_16, Potatoes_18, Powerpuff_16, Preamble_14, Pterodactyl_14, Pumancara_14, Pumpkins_16, RAP15_18, Rasovi_19, RcigaStruga_18, Reedo_16, Riovina_14, Riverdale_18, RockScotty_16, Rozby_18, SBlackberry_19, Sabourin_16, Salgado_67, Savage2526_18, Scuttle_18, Sergei_14, Shaffner_17, ShakeltOph_16, Shrooms_65, Simpson_18, Snek_16, Sooty_16, SpecialK_16, Stuu_17, Subaru_16, Sucha_16, Sue2_16, Supakev_14, Suppi_18, TMaxx_17, Tallboi_16, TattModd_18, Tbone_16, Temper16_14, TforTroy_16, Tian_16, Tuck_17, Turab_16, TurboVicky_19, Tutumahutu_16, Tweety19_16, Typher_21, Urla_14, UtzChips_14, VResidence_16, Vallejo_18, VroomVroom_15, Vulture_14, Waltz_64, Warda_16, Wawa_18, Wayne_18, Wheelbite_63, Wildwest_17, WonderBoy_14, Yang_16, YesChef_16, Zanella_19, Zeta1847_14, Zorro_18,

Summary by start number:

Start 3:

- Found in 7 of 343 (2.0%) of genes in pham
- Manual Annotations of this start: 7 of 304
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Shrooms_65 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Start 9:

- Found in 2 of 343 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AnnabelleLee_17 (FR), Neuville_17 (FR),

Start 10:

- Found in 4 of 343 (1.2%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Audell_20 (FR), TMaxx_17 (FR),

Start 11:

- Found in 65 of 343 (19.0%) of genes in pham
- Manual Annotations of this start: 52 of 304
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_16 (AZ1), AGrandiflora_16 (AZ1), Adolin_16 (AZ1), Adumb2043_16 (AZ1), AinMach_15 (AZ), Amyev_16 (AZ1), Asa16_16 (AZ1), Ascela_16 (AZ1), Berrie_16 (AZ1), Cassia_16 (AZ1), Community_16 (AZ1), Crewmate_17 (AZ1), Cyan_16 (AZ1), DrManhattan_16 (AZ1), DrSierra_16 (AZ1), Elezi_16 (AZ1), Emotion_15 (AZ4), Eraser_16 (AZ1), Iter_16 (AZ1), IttyBittyPiggy_16 (AZ1), Janeemi_17 (AZ1), JasmineDragon_15 (AZ4), Joemato_16 (AZ1), JohnDoe_16 (AZ1), Jstan_16 (AZ1), JuneStar_16 (AZ1), Kaylissa_16 (AZ1), KeAlii_16 (AZ1), LadyAstra_15 (AZ4), Lego_16 (AZ1), Liebe_15 (AZ2), Lizalica_16 (AZ1), London_16 (AZ1), MaGuCo_15 (AZ2), Maureen_15 (AZ2), MiniMommy_15 (AZ4), MissSwiss_16 (AZ1), Mudpuppy_16 (AZ1), Niobe_16 (AZ1),

Nitro_16 (AZ1), ObiToo_16 (AZ1), Phives_17 (AZ1), Pixelle_16 (AZ1), Powerpuff_16 (AZ1), Pumpkins_16 (AZ1), Reedo_16 (AZ1), Shaffner_17 (AZ1), ShakeltOph_16 (AZ4), Simpson_18 (AZ1), Sneak_16 (AZ3), Subaru_16 (AZ1), Sue2_16 (AZ1), Tallboi_16 (AZ1), Tbone_16 (AZ1), TforTroy_16 (AZ1), Tian_16 (AZ1), Tuck_17 (AZ1), Turab_16 (AZ1), Tutumahutu_16 (AZ1), Tweety19_16 (AZ3), VroomVroom_15 (AZ4), Warda_16 (AZ1), Wildwest_17 (AZ1), Yang_16 (AZ1), YesChef_16 (AZ1),

Start 12:

- Found in 84 of 343 (24.5%) of genes in pham
- Manual Annotations of this start: 83 of 304
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_18 (AK), Aledel_14 (AK), AppleCider_18 (AK), AustinPowers_14 (AK), Beethoven_18 (AK), Bennie_14 (AK), BigMack_14 (AK), Bodacious_14 (AK), BrotherBLo_18 (AK), CallieOMalley_18 (AK), Canowicakte_18 (AK), Carpal_18 (AK), ChewChew_14 (AK), Cholula_18 (AK), Chridison_14 (AK), Christian_14 (AK), CristinaYang_14 (AK), Daiboju_14 (AK), Dino_18 (AK), DrRobert_14 (AK), DreamTeam_14 (AK), EstebanJulior_14 (AK), Eunoia_14 (AK), Fluke_18 (AK), Gisselle_14 (AK), Glenn_18 (AK), GreenHearts_18 (AK), Greenhouse_18 (AK), HeadNerd_14 (AK), Herb_14 (AK), Huckleberry_14 (AK), HunterDalle_14 (AK), Huntingdon_18 (AK), Immaculata_18 (AK), Joann_18 (AK), Jumboset_18 (AK), Kalizoi_18 (AK), KingBob_14 (AK), Kittykat_14 (AK), Korra_19 (AK), Lakshmi_18 (AK), Lasagna_14 (AK), Lennox_14 (AK), LilStuart_14 (AK), Litotes_18 (AK), Lucy_14 (AK), Makoto_14 (AK), MamaPearl_14 (AK), Maria1952_14 (AK), MeganNoll_18 (AK), Misaeng_18 (AK), Moki_14 (AK), MrGloopy_18 (AK), Nancia_14 (AK), Nubia_18 (AK), OMalley_14 (AK), OurGirlNessie_14 (AK), Oxynfrius_18 (AK), PartyCup_18 (AK), PinkFriday_14 (AK), PitaDog_14 (AK), Potatoes_18 (AK), Preamble_14 (AK), Pterodactyl_14 (AK), Pumancara_14 (AK), RAP15_18 (AK), RcigaStruga_18 (AK), Riovina_14 (AK), Riverdale_18 (AK), Rozby_18 (AK), Savage2526_18 (AK), Scuttle_18 (AK), Sergei_14 (AK), Supakev_14 (AK), Suppi_18 (AK), TattModd_18 (AK), Temper16_14 (AK), Urla_14 (AK), Vallejo_18 (AK), Vulture_14 (AK), Wawa_18 (AK), Wayne_18 (AK), WonderBoy_14 (AK), Zorro_18 (AK),

Start 14:

- Found in 7 of 343 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 304
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Zeta1847_14 (EH),

Start 16:

- Found in 17 of 343 (5.0%) of genes in pham
- Manual Annotations of this start: 11 of 304
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashes_16 (AZ5), Beaupre_16 (AZ5), Cappuccino_16 (AZ5), Donkey_16 (AZ5), Gambol_16 (AZ5), Giorgio_16 (AZ5), Gumpizza_16 (AZ5), Halsey_16 (AZ5), Kalimba_16 (AZ5), Moss_16 (AZ5), Mysterium_16 (AZ5), RockScotty_16 (AZ5), Sabourin_16 (AZ5), Sooty_16 (AZ5), SpecialK_16 (AZ5), Stuu_17 (AZ5), VResidence_16 (AZ1),

Start 17:

- Found in 7 of 343 (2.0%) of genes in pham
- Manual Annotations of this start: 7 of 304
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Barnstormer_14 (EH), Caron_14 (EH), Cen1621_14 (EH), GardenState_15 (EH), Honk_14 (EH), IAmGroot_15 (EH), UtzChips_14 (EH),

Start 19:

- Found in 33 of 343 (9.6%) of genes in pham
- Manual Annotations of this start: 16 of 304
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Berry_19 (EJ), Cicada_21 (EJ), FireCastle_19 (EJ), Goodman_20 (EJ), Htur_19 (EJ), IndiRoo_19 (EJ), Jera_20 (EJ), Johann_20 (EJ), Linayshia_19 (EJ), Milani_20 (EJ), Olympi_20 (EJ), PermaG_20 (EJ), Rasovi_19 (EJ), SBlackberry_19 (EJ), Sucha_16 (EJ), TurboVicky_19 (EJ), Typher_21 (EJ), Zanella_19 (EJ),

Start 22:

- Found in 140 of 343 (40.8%) of genes in pham
- Manual Annotations of this start: 124 of 304
- Called 97.9% of time when present
- Phage (with cluster) where this start called: Alucard_12 (EE), Anseraureola_12 (EE), Aries55_12 (EE), Astro16_12 (EE), Avvas_12 (EE), Azizam_12 (EE), Aztec_12 (EE), Baine_12 (EE), BarBear_12 (EE), Belthelas_12 (EE), BinkBonk_12 (EE), Binti_12 (EE), Biscayne_12 (EE), Bodhi17_12 (EE), BonaeVitae_12 (EE), BoomRoasted_12 (EE), Bradley2_12 (EE), Bri160_12 (EE), BrokMonster_12 (EE), Bullzi2019_12 (EE), Burgy_12 (EE), BurtonThePup_12 (EE), Cayde6_12 (EE), Charbie_12 (EE), Chatham_12 (EE), Cheesecake_12 (EE), Ciel_12 (EE), Clownery_12 (EE), Concrete_12 (EE), DaftyDuck_12 (EE), Danimal_12 (EE), Danno_12 (EE), DirtPie_12 (EE), Dongwon_12 (EE), Dooby_12 (EE), Douggie_12 (EE), ELee24_11 (EE), EdElric_12 (EE), Efeko_13 (EE), Eightball_12 (EE), Ekko14_12 (EE), Elspeth_12 (EE), Erin_12 (EE), Gabbspett_12 (EE), Gardevoir_12 (EE), Gillker_12 (EE), Godfather_12 (EE), GoldenBlanche_12 (EE), Goobery_12 (EE), HarperAnne_12 (EE), HeadMave_12 (EE), Hernandez44_12 (EE), Horacetta_12 (EE), Hulk_12 (EE), IzzyPants24_11 (EE), JRok_12 (EE), Jahseh_12 (EE), JaimeB_12 (EE), Jannah_12 (EE), Jella_12 (EE), Jerky_12 (EE), JoBros_12 (EE), JooneeDee_12 (EE), Josuke_12 (EE), Kaijohn_12 (EE), KayPaulus_12 (EE), Kevanna_12 (EE), KillerTomato_12 (EE), Kojax4_12 (EE), KyriosFaba_12 (EE), LaviMo_12 (EE), Leafy_12 (EE), LemonPepper_12 (EE), LionelHutz_12 (EE), Livingwater_12 (EE), Loca_12 (EE), Lola20_12 (EE), Lunatic_12 (EE), Luxx_12 (EE), Madebyisha_14 (EE), Majesty_12 (EE), ManAs_12 (EE), Maneater_12 (EE), MasterPitts_12 (EE), McShie_12 (EE), MelBee03_12 (EE), Miaurora_12 (EE), Minima_12 (EE), MirimarMandM_12 (EE), MrGreen_12 (EE), Myram_12 (EE), Naby_12 (EE), Namsahir_12 (EE), NeumannU_12 (EE), Niffler_12 (EE), Nobel_12 (EE), Noelani_12 (EE), Octopus_12 (EE), Otwor_12 (EE), Owens_12 (EE), PaoPu_12 (EE), Picnic_12 (EE), PoRanda_12 (EE), Pondwater_12 (EE), Publix_12 (EE), Puddles3_12 (EE), PuffyCat_12 (EE), Quaker_12 (EE), Rhogar_12 (EE), Rhysand_12 (EE), RoscoWindex_12 (EE), Sage7_12 (EE), SantasSleigh_12 (EE), Sara_12 (EE), Scamander_12 (EE), Scrunchy_12 (EE), SeaWolves_12 (EE), Sippinontea_12 (EE), Slentz_12 (EE), Slizam_12 (EE), Snuffles_13 (EE), Stem_12 (EE), TeddyBoy_12 (EE), TimoTea_12 (EE), TinyTruffula_12 (EE), TomBrady12_12 (EE), Trackstar_11 (EE), Trireme_12 (EE), Upsilon_12 (EE), Vanisius_12 (EE), VitulaEligans_12 (EE), Witch_12 (EE), Wolfpack_12 (EE), Yasuo_12 (EE), YertPhresh_12 (EE), Yubaba_12 (EE), Zahlia_12 (EE),

Start 26:

- Found in 139 of 343 (40.5%) of genes in pham
- Manual Annotations of this start: 3 of 304
- Called 2.2% of time when present
- Phage (with cluster) where this start called: Cazares_12 (EE), Oaklynn_12 (EE), Yami_12 (EE),

Summary by clusters:

There are 12 clusters represented in this pham: FR, AZ, EH, EJ, EE, AK, AL, AZ1, AZ2, AZ3, AZ4, AZ5,

Info for manual annotations of cluster AK:

- Start number 12 was manually annotated 83 times for cluster AK.

Info for manual annotations of cluster AL:

- Start number 3 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster AZ1:

- Start number 11 was manually annotated 44 times for cluster AZ1.
- Start number 16 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 11 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 11 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 11 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 16 was manually annotated 10 times for cluster AZ5.

Info for manual annotations of cluster EE:

- Start number 22 was manually annotated 124 times for cluster EE.
- Start number 26 was manually annotated 3 times for cluster EE.

Info for manual annotations of cluster EH:

- Start number 14 was manually annotated 1 time for cluster EH.
- Start number 17 was manually annotated 7 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 19 was manually annotated 16 times for cluster EJ.

Gene Information:

Gene: AEgle_16 Start: 10734, Stop: 13058, Start Num: 11

Candidate Starts for AEgle_16:

(Start: 11 @10734 has 52 MA's), (35, 10890), (36, 10899), (39, 10914), (50, 10980), (58, 11040), (63, 11085), (72, 11157), (84, 11238), (85, 11241), (88, 11271), (97, 11325), (101, 11355), (110, 11412), (113, 11436), (121, 11496), (122, 11502), (198, 11721), (234, 11817), (246, 11850), (272, 11937), (289, 11991), (303, 12033), (313, 12072), (333, 12132), (370, 12273), (422, 12402), (425, 12411), (450, 12522), (479, 12654), (480, 12657), (488, 12690), (501, 12768), (507, 12807), (518, 12867), (536, 12957),

Gene: AGrandiflora_16 Start: 10727, Stop: 13042, Start Num: 11

Candidate Starts for AGrandiflora_16:

(Start: 11 @10727 has 52 MA's), (35, 10883), (36, 10892), (50, 10973), (51, 10985), (58, 11033), (59, 11036), (63, 11078), (72, 11150), (84, 11231), (85, 11234), (88, 11264), (97, 11318), (101, 11348), (110, 11405), (113, 11429), (121, 11489), (198, 11714), (234, 11810), (254, 11873), (257, 11882), (272, 11930), (275, 11939), (279, 11951), (289, 11984), (303, 12026), (313, 12065), (333, 12125), (370, 12266), (395, 12341), (406, 12353), (422, 12395), (425, 12404), (431, 12428), (446, 12497), (450, 12515), (476, 12626), (479, 12647), (480, 12650), (488, 12683), (501, 12761), (507, 12800), (518, 12860), (524, 12890), (536, 12941), (543, 12986), (549, 13031),

Gene: Adolin_16 Start: 10723, Stop: 12957, Start Num: 11

Candidate Starts for Adolin_16:

(Start: 11 @10723 has 52 MA's), (23, 10798), (35, 10879), (36, 10888), (41, 10915), (50, 10969), (51, 10981), (58, 11029), (60, 11041), (64, 11083), (72, 11146), (84, 11227), (85, 11230), (88, 11260), (101, 11344), (110, 11401), (113, 11425), (118, 11467), (121, 11485), (129, 11515), (135, 11554), (140, 11572), (187, 11644), (189, 11647), (196, 11665), (228, 11710), (242, 11767), (254, 11806), (257, 11815), (272, 11863), (275, 11872), (303, 11959), (306, 11971), (313, 11998), (319, 12016), (333, 12058), (360, 12160), (376, 12220), (408, 12292), (419, 12319), (422, 12328), (445, 12418), (448, 12439), (461, 12472), (471, 12526), (475, 12547), (500, 12679), (504, 12709), (541, 12892),

Gene: Adumb2043_16 Start: 10733, Stop: 13057, Start Num: 11

Candidate Starts for Adumb2043_16:

(Start: 11 @10733 has 52 MA's), (35, 10889), (36, 10898), (39, 10913), (50, 10979), (58, 11039), (63, 11084), (72, 11156), (84, 11237), (85, 11240), (88, 11270), (97, 11324), (101, 11354), (110, 11411), (113, 11435), (121, 11495), (122, 11501), (198, 11720), (234, 11816), (246, 11849), (272, 11936), (289, 11990), (303, 12032), (313, 12071), (333, 12131), (370, 12272), (422, 12401), (425, 12410), (450, 12521), (479, 12653), (480, 12656), (488, 12689), (501, 12767), (507, 12806), (518, 12866), (536, 12956),

Gene: AinMach_15 Start: 9852, Stop: 12212, Start Num: 11

Candidate Starts for AinMach_15:

(Start: 11 @9852 has 52 MA's), (35, 10008), (39, 10032), (50, 10098), (58, 10158), (72, 10275), (80, 10338), (84, 10356), (85, 10359), (88, 10389), (97, 10443), (101, 10473), (110, 10530), (113, 10554), (116, 10584), (118, 10596), (120, 10608), (121, 10614), (126, 10635), (272, 10980), (275, 10989), (333, 11175), (378, 11346), (391, 11391), (392, 11400), (395, 11424), (398, 11436), (402, 11460), (405, 11469), (406, 11478), (431, 11610), (441, 11655), (448, 11688), (453, 11709), (454, 11712), (475, 11796), (482, 11838), (500, 11928), (504, 11958),

Gene: Albanese_18 Start: 12660, Stop: 15221, Start Num: 12

Candidate Starts for Albanese_18:

(8, 12639), (Start: 12 @12660 has 83 MA's), (27, 12750), (32, 12789), (37, 12825), (49, 12885), (54, 12933), (55, 12948), (76, 13116), (86, 13161), (91, 13212), (92, 13215), (103, 13299), (134, 13485), (146, 13521), (150, 13533), (161, 13575), (182, 13686), (226, 13884), (250, 13977), (257, 14001), (258, 14004), (281, 14082), (283, 14088), (291, 14115), (299, 14145), (314, 14208), (319, 14223), (322, 14232), (323, 14235), (326, 14244), (334, 14268), (337, 14280), (338, 14286), (342, 14301), (343, 14307), (344, 14310), (350, 14331), (353, 14346), (357, 14361), (362, 14379), (363, 14385),

(366, 14400), (369, 14409), (371, 14418), (380, 14451), (381, 14454), (384, 14466), (386, 14472), (390, 14484), (409, 14550), (412, 14565), (421, 14595), (424, 14604), (450, 14715), (463, 14751), (466, 14772), (479, 14847), (480, 14850), (491, 14904), (497, 14943), (507, 15000), (509, 15024), (519, 15066), (526, 15093), (542, 15162),

Gene: Aledel_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Aledel_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (53, 10008), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109), (270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: Alucard_12 Start: 7541, Stop: 9646, Start Num: 22

Candidate Starts for Alucard_12:

(Start: 22 @7541 has 124 MA's), (Start: 26 @7562 has 3 MA's), (52, 7739), (54, 7748), (57, 7772), (65, 7844), (69, 7868), (70, 7874), (90, 8024), (94, 8045), (96, 8057), (98, 8066), (131, 8273), (144, 8291), (183, 8378), (214, 8447), (229, 8459), (241, 8507), (261, 8537), (271, 8552), (288, 8588), (299, 8615), (306, 8636), (315, 8660), (323, 8684), (325, 8690), (334, 8717), (342, 8750), (352, 8789), (359, 8816), (364, 8837), (367, 8852), (383, 8879), (384, 8882), (393, 8903), (397, 8915), (399, 8921), (412, 8969), (423, 9005), (435, 9053), (443, 9080), (446, 9101), (464, 9164), (468, 9188), (478, 9245), (500, 9350), (502, 9371), (505, 9383), (509, 9425), (513, 9446), (519, 9467), (543, 9596),

Gene: Amyev_16 Start: 10746, Stop: 13070, Start Num: 11

Candidate Starts for Amyev_16:

(Start: 11 @10746 has 52 MA's), (35, 10902), (36, 10911), (50, 10992), (58, 11052), (63, 11097), (72, 11169), (79, 11229), (84, 11250), (85, 11253), (88, 11283), (97, 11337), (101, 11367), (110, 11424), (113, 11448), (121, 11508), (122, 11514), (156, 11634), (198, 11733), (234, 11829), (257, 11901), (272, 11949), (279, 11970), (289, 12003), (303, 12045), (313, 12084), (333, 12144), (337, 12159), (355, 12225), (387, 12348), (394, 12357), (422, 12414), (425, 12423), (438, 12480), (439, 12483), (450, 12534), (479, 12666), (480, 12669), (501, 12780), (507, 12819), (509, 12843), (536, 12969),

Gene: AnnabelLee_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for AnnabelLee_17:

(9, 9567), (10, 9570), (29, 9669), (52, 9828), (81, 10044), (102, 10188), (123, 10335), (132, 10377), (180, 10545), (189, 10566), (206, 10620), (237, 10761), (246, 10773), (255, 10806), (260, 10821), (275, 10875), (276, 10878), (286, 10902), (298, 10938), (300, 10947), (306, 10968), (308, 10977), (309, 10983), (311, 10989), (315, 11001), (316, 11004), (326, 11034), (330, 11043), (348, 11112), (354, 11139), (355, 11142), (371, 11208), (377, 11229), (383, 11253), (413, 11277), (425, 11316), (441, 11385), (444, 11394), (449, 11421), (479, 11505), (480, 11508), (497, 11601), (500, 11607), (507, 11658), (509, 11682), (510, 11691), (523, 11736), (545, 11850),

Gene: Anseraureola_12 Start: 7563, Stop: 9671, Start Num: 22

Candidate Starts for Anseraureola_12:

(Start: 22 @7563 has 124 MA's), (Start: 26 @7584 has 3 MA's), (52, 7761), (54, 7770), (57, 7794), (65, 7866), (69, 7890), (70, 7896), (85, 7989), (90, 8046), (94, 8067), (96, 8079), (98, 8088), (131, 8295), (144, 8313), (183, 8400), (214, 8469), (229, 8481), (241, 8529), (261, 8559), (271, 8574), (288, 8610), (299, 8637), (307, 8661), (315, 8682), (323, 8706), (325, 8712), (334, 8739), (342, 8772), (352, 8811), (359, 8838), (364, 8859), (367, 8874), (383, 8901), (384, 8904), (397, 8937), (399, 8943), (412, 8991),

(423, 9027), (435, 9075), (443, 9102), (446, 9123), (464, 9186), (468, 9210), (478, 9267), (500, 9372), (502, 9393), (505, 9405), (509, 9447), (519, 9489), (543, 9621),

Gene: AppleCider_18 Start: 12612, Stop: 15167, Start Num: 12

Candidate Starts for AppleCider_18:

(8, 12591), (Start: 12 @12612 has 83 MA's), (21, 12660), (32, 12741), (35, 12765), (49, 12837), (54, 12885), (55, 12900), (56, 12906), (76, 13068), (86, 13113), (91, 13164), (92, 13167), (97, 13197), (103, 13251), (116, 13335), (139, 13458), (158, 13518), (163, 13536), (166, 13551), (176, 13602), (226, 13833), (244, 13902), (250, 13926), (255, 13944), (257, 13950), (272, 14004), (276, 14016), (283, 14037), (290, 14061), (311, 14148), (319, 14172), (321, 14178), (322, 14181), (326, 14193), (333, 14214), (334, 14217), (335, 14223), (337, 14229), (341, 14247), (342, 14250), (343, 14256), (350, 14280), (355, 14301), (357, 14310), (362, 14328), (366, 14349), (369, 14358), (371, 14367), (380, 14400), (381, 14403), (383, 14412), (384, 14415), (400, 14466), (450, 14664), (453, 14676), (462, 14697), (463, 14700), (479, 14796), (480, 14799), (491, 14853), (497, 14892), (507, 14949), (512, 14991), (526, 15039), (536, 15081), (542, 15111),

Gene: Aries55_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Aries55_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Asa16_16 Start: 10703, Stop: 13027, Start Num: 11

Candidate Starts for Asa16_16:

(Start: 11 @10703 has 52 MA's), (34, 10856), (35, 10859), (36, 10868), (50, 10949), (58, 11009), (63, 11054), (72, 11126), (84, 11207), (85, 11210), (88, 11240), (97, 11294), (101, 11324), (110, 11381), (113, 11405), (121, 11465), (122, 11471), (129, 11495), (156, 11591), (198, 11690), (234, 11786), (246, 11819), (257, 11858), (272, 11906), (289, 11960), (303, 12002), (313, 12041), (319, 12059), (333, 12101), (358, 12194), (420, 12365), (425, 12380), (450, 12491), (479, 12623), (480, 12626), (488, 12659), (501, 12737), (507, 12776), (518, 12836), (536, 12926),

Gene: Ascela_16 Start: 10739, Stop: 13054, Start Num: 11

Candidate Starts for Ascela_16:

(Start: 11 @10739 has 52 MA's), (35, 10895), (38, 10913), (42, 10937), (50, 10985), (58, 11045), (63, 11090), (72, 11162), (85, 11246), (88, 11276), (97, 11330), (101, 11360), (110, 11417), (113, 11441), (121, 11501), (122, 11507), (198, 11726), (257, 11894), (272, 11942), (303, 12038), (313, 12077), (319, 12095), (333, 12137), (339, 12161), (355, 12218), (358, 12230), (387, 12341), (420, 12401), (425, 12416), (450, 12527), (476, 12638), (479, 12659), (480, 12662), (488, 12695), (501, 12773), (507, 12812), (524, 12902), (527, 12914), (543, 12998),

Gene: Ashes_16 Start: 10335, Stop: 12755, Start Num: 16

Candidate Starts for Ashes_16:

(Start: 16 @10335 has 11 MA's), (28, 10422), (44, 10527), (48, 10539), (54, 10599), (68, 10710), (78, 10791), (98, 10917), (100, 10932), (108, 10986), (144, 11160), (167, 11244), (172, 11265), (180, 11307), (214, 11433), (222, 11454), (229, 11487), (245, 11544), (256, 11586), (261, 11601), (276, 11652), (287, 11688), (289, 11694), (322, 11796), (330, 11817), (340, 11859), (356, 11919), (357, 11925), (369, 11973), (406, 12069), (453, 12246), (455, 12258), (470, 12309), (485, 12390), (497, 12459), (504, 12495), (518, 12576), (522, 12591), (537, 12663), (540, 12687),

Gene: Astro16_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Astro16_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Audell_20 Start: 12894, Stop: 15182, Start Num: 10

Candidate Starts for Audell_20:

(10, 12894), (66, 13254), (67, 13257), (81, 13368), (82, 13371), (83, 13374), (102, 13512), (123, 13659), (164, 13830), (182, 13878), (219, 14010), (244, 14094), (248, 14106), (255, 14130), (267, 14172), (272, 14190), (276, 14202), (303, 14280), (304, 14283), (310, 14310), (316, 14328), (319, 14337), (327, 14361), (332, 14376), (334, 14382), (337, 14394), (338, 14400), (348, 14436), (355, 14466), (371, 14532), (436, 14688), (441, 14709), (442, 14712), (479, 14829), (480, 14832), (488, 14865), (507, 14982), (509, 15006), (538, 15123),

Gene: AustinPowers_14 Start: 9739, Stop: 12297, Start Num: 12

Candidate Starts for AustinPowers_14:

(Start: 12 @9739 has 83 MA's), (15, 9748), (Start: 19 @9778 has 16 MA's), (32, 9868), (49, 9964), (53, 10009), (55, 10027), (76, 10195), (91, 10291), (92, 10294), (94, 10309), (106, 10396), (116, 10462), (146, 10600), (147, 10603), (167, 10687), (232, 10993), (250, 11053), (255, 11071), (257, 11077), (266, 11110), (270, 11122), (281, 11158), (289, 11185), (296, 11209), (298, 11215), (310, 11272), (318, 11296), (321, 11305), (326, 11320), (334, 11344), (337, 11356), (342, 11377), (343, 11383), (349, 11404), (357, 11437), (362, 11455), (366, 11476), (368, 11482), (371, 11494), (380, 11527), (381, 11530), (384, 11542), (389, 11557), (390, 11560), (414, 11647), (438, 11737), (439, 11740), (450, 11791), (462, 11824), (466, 11848), (467, 11857), (479, 11923), (480, 11926), (491, 11980), (497, 12019), (506, 12067), (507, 12076), (509, 12100), (511, 12112), (536, 12208), (542, 12238),

Gene: Avvas_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Avvas_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Azizam_12 Start: 7534, Stop: 9639, Start Num: 22

Candidate Starts for Azizam_12:

(Start: 22 @7534 has 124 MA's), (Start: 26 @7555 has 3 MA's), (52, 7732), (54, 7741), (57, 7765), (65, 7837), (69, 7861), (70, 7867), (90, 8017), (94, 8038), (96, 8050), (98, 8059), (131, 8266), (144, 8284), (183, 8371), (214, 8440), (229, 8452), (241, 8500), (261, 8530), (271, 8545), (299, 8608), (306, 8629), (307, 8632), (325, 8683), (334, 8710), (342, 8743), (352, 8782), (359, 8809), (364, 8830), (367, 8845), (383, 8872), (393, 8896), (397, 8908), (399, 8914), (412, 8962), (435, 9046), (443, 9073), (446, 9094), (464, 9157), (468, 9181), (474, 9205), (477, 9226), (500, 9343), (502, 9364), (505, 9376), (509, 9418), (513, 9439), (519, 9460), (543, 9589),

Gene: Aztec_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Aztec_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Baine_12 Start: 7538, Stop: 9646, Start Num: 22

Candidate Starts for Baine_12:

(Start: 22 @7538 has 124 MA's), (Start: 26 @7559 has 3 MA's), (52, 7736), (54, 7745), (57, 7769), (65, 7841), (69, 7865), (70, 7871), (85, 7964), (90, 8021), (94, 8042), (96, 8054), (98, 8063), (131, 8270), (144, 8288), (183, 8375), (214, 8444), (229, 8456), (241, 8504), (261, 8534), (271, 8549), (288, 8585), (299, 8612), (315, 8657), (323, 8681), (325, 8687), (334, 8714), (342, 8747), (352, 8786), (359, 8813), (364, 8834), (367, 8849), (383, 8876), (384, 8879), (397, 8912), (399, 8918), (412, 8966), (423, 9002), (435, 9050), (443, 9077), (446, 9098), (464, 9161), (468, 9185), (478, 9242), (500, 9347), (502, 9368), (505, 9380), (509, 9422), (519, 9464), (543, 9596),

Gene: BarBear_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for BarBear_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Barnstormer_14 Start: 9927, Stop: 12275, Start Num: 17

Candidate Starts for Barnstormer_14:

(Start: 17 @9927 has 7 MA's), (44, 10110), (57, 10206), (71, 10314), (78, 10374), (108, 10569), (117, 10632), (136, 10716), (144, 10728), (145, 10731), (159, 10782), (172, 10833), (188, 10920), (211, 10980), (217, 11004), (238, 11085), (260, 11145), (278, 11166), (299, 11226), (306, 11247), (310, 11256), (327, 11307), (350, 11394), (352, 11403), (385, 11499), (387, 11505), (399, 11538), (427, 11634), (435, 11673), (468, 11811), (479, 11874), (501, 11985), (519, 12090), (526, 12126),

Gene: Beaupre_16 Start: 10336, Stop: 12756, Start Num: 16

Candidate Starts for Beaupre_16:

(Start: 16 @10336 has 11 MA's), (28, 10423), (44, 10528), (48, 10540), (54, 10600), (68, 10711), (78, 10792), (98, 10918), (100, 10933), (108, 10987), (144, 11161), (167, 11245), (172, 11266), (180, 11308), (214, 11434), (222, 11455), (229, 11488), (245, 11545), (256, 11587), (261, 11602), (276, 11653), (287, 11689), (289, 11695), (322, 11797), (330, 11818), (340, 11860), (356, 11920), (357, 11926), (369, 11974), (406, 12070), (448, 12226), (453, 12247), (455, 12259), (470, 12310), (497, 12460), (504, 12496), (518, 12577), (537, 12664), (540, 12688),

Gene: Beethoven_18 Start: 12567, Stop: 15128, Start Num: 12

Candidate Starts for Beethoven_18:

(8, 12546), (Start: 12 @12567 has 83 MA's), (21, 12615), (24, 12648), (32, 12696), (35, 12720), (37, 12732), (49, 12792), (54, 12840), (55, 12855), (56, 12861), (73, 12981), (76, 13023), (91, 13119), (92, 13122), (97, 13152), (103, 13206), (128, 13347), (131, 13368), (134, 13392), (139, 13413), (144, 13422), (158, 13473), (163, 13491), (202, 13677), (232, 13821), (243, 13854), (250, 13881), (255, 13899), (257, 13905), (264, 13929), (266, 13938), (281, 13986), (289, 14013), (298, 14043), (299, 14049), (310, 14100), (315, 14115), (319, 14127), (321, 14133), (322, 14136), (325, 14145), (334,

14172), (337, 14184), (339, 14193), (342, 14205), (343, 14211), (349, 14232), (355, 14256), (357, 14265), (365, 14301), (366, 14304), (371, 14322), (380, 14355), (381, 14358), (383, 14367), (384, 14370), (389, 14385), (414, 14475), (450, 14619), (463, 14655), (479, 14751), (480, 14754), (491, 14808), (497, 14847), (506, 14895), (507, 14904), (509, 14928), (512, 14946), (526, 14997), (534, 15021), (536, 15039), (542, 15069),

Gene: Belthelas_12 Start: 7590, Stop: 9695, Start Num: 22

Candidate Starts for Belthelas_12:

(Start: 22 @7590 has 124 MA's), (Start: 26 @7611 has 3 MA's), (52, 7788), (54, 7797), (57, 7821), (65, 7893), (69, 7917), (70, 7923), (85, 8016), (90, 8073), (94, 8094), (96, 8106), (98, 8115), (131, 8322), (144, 8340), (183, 8427), (214, 8496), (229, 8508), (241, 8556), (261, 8586), (271, 8601), (288, 8637), (299, 8664), (307, 8688), (315, 8709), (323, 8733), (325, 8739), (334, 8766), (342, 8799), (352, 8838), (359, 8865), (364, 8886), (367, 8901), (383, 8928), (384, 8931), (393, 8952), (397, 8964), (399, 8970), (412, 9018), (423, 9054), (435, 9102), (443, 9129), (446, 9150), (464, 9213), (468, 9237), (478, 9294), (500, 9399), (502, 9420), (505, 9432), (509, 9474), (513, 9495), (519, 9516), (543, 9645),

Gene: Bennie_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Bennie_14:

(8, 9699), (Start: 12 @9720 has 83 MA's), (21, 9768), (32, 9849), (35, 9873), (49, 9945), (54, 9993), (55, 10008), (56, 10014), (76, 10176), (90, 10269), (91, 10272), (92, 10275), (97, 10305), (104, 10362), (128, 10500), (131, 10521), (139, 10566), (150, 10593), (158, 10626), (163, 10644), (172, 10686), (182, 10743), (243, 11007), (250, 11034), (255, 11052), (257, 11058), (264, 11082), (270, 11103), (281, 11139), (289, 11166), (298, 11196), (299, 11202), (310, 11253), (321, 11286), (334, 11325), (335, 11331), (337, 11337), (339, 11346), (342, 11358), (343, 11364), (350, 11388), (355, 11409), (357, 11418), (366, 11457), (371, 11475), (380, 11508), (381, 11511), (384, 11523), (389, 11538), (405, 11589), (412, 11622), (417, 11640), (426, 11664), (435, 11706), (450, 11772), (453, 11784), (466, 11829), (479, 11904), (480, 11907), (491, 11961), (497, 12000), (502, 12027), (507, 12057), (508, 12069), (509, 12081), (510, 12090), (526, 12156), (536, 12198), (542, 12228),

Gene: Benry_19 Start: 11509, Stop: 13800, Start Num: 19

Candidate Starts for Benry_19:

(Start: 19 @11509 has 16 MA's), (37, 11626), (43, 11659), (62, 11800), (72, 11878), (75, 11902), (93, 12034), (102, 12085), (109, 12136), (112, 12157), (124, 12235), (131, 12271), (132, 12274), (134, 12295), (150, 12352), (169, 12436), (191, 12481), (193, 12484), (198, 12502), (203, 12520), (209, 12544), (247, 12706), (266, 12772), (276, 12805), (283, 12826), (293, 12859), (294, 12862), (345, 13030), (350, 13048), (355, 13069), (375, 13147), (383, 13180), (433, 13279), (442, 13315), (444, 13321), (449, 13348), (473, 13387), (479, 13432), (483, 13444), (485, 13456), (487, 13465), (488, 13468), (507, 13582), (515, 13633), (517, 13639), (520, 13648),

Gene: Berrie_16 Start: 10711, Stop: 13188, Start Num: 11

Candidate Starts for Berrie_16:

(Start: 11 @10711 has 52 MA's), (35, 10867), (36, 10876), (50, 10957), (58, 11017), (63, 11062), (72, 11134), (85, 11218), (88, 11248), (97, 11302), (101, 11332), (110, 11389), (113, 11413), (121, 11473), (122, 11479), (129, 11503), (145, 11581), (175, 11713), (186, 11749), (198, 11791), (220, 11890), (235, 11962), (249, 12001), (257, 12028), (272, 12076), (289, 12130), (303, 12172), (312, 12208), (319, 12229), (333, 12271), (358, 12364), (387, 12475), (395, 12487), (420, 12535), (425, 12550), (479, 12793), (480, 12796), (501, 12907), (507, 12946), (522, 13021), (524, 13036), (543, 13132),

Gene: BigMack_14 Start: 9716, Stop: 12277, Start Num: 12

Candidate Starts for BigMack_14:

(8, 9695), (Start: 12 @9716 has 83 MA's), (21, 9764), (32, 9845), (35, 9869), (49, 9941), (54, 9989), (55, 10004), (56, 10010), (73, 10130), (76, 10172), (90, 10265), (91, 10268), (92, 10271), (97, 10301), (128, 10496), (131, 10517), (139, 10562), (158, 10622), (163, 10640), (216, 10892), (243, 11003),

(250, 11030), (255, 11048), (257, 11054), (264, 11078), (266, 11087), (281, 11135), (289, 11162), (290, 11165), (298, 11192), (299, 11198), (303, 11210), (310, 11249), (315, 11264), (319, 11276), (321, 11282), (322, 11285), (325, 11294), (334, 11321), (335, 11327), (337, 11333), (339, 11342), (342, 11354), (343, 11360), (344, 11363), (357, 11414), (365, 11450), (366, 11453), (380, 11504), (381, 11507), (383, 11516), (384, 11519), (389, 11534), (412, 11618), (441, 11726), (450, 11768), (479, 11900), (480, 11903), (491, 11957), (497, 11996), (506, 12044), (507, 12053), (509, 12077), (526, 12146), (527, 12152), (542, 12218),

Gene: BinkBonk_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for BinkBonk_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Bintii_12 Start: 7572, Stop: 9677, Start Num: 22

Candidate Starts for Bintii_12:

(4, 7476), (Start: 22 @7572 has 124 MA's), (Start: 26 @7593 has 3 MA's), (52, 7770), (54, 7779), (57, 7803), (65, 7875), (69, 7899), (85, 7998), (94, 8076), (96, 8088), (98, 8097), (131, 8304), (144, 8322), (183, 8409), (214, 8478), (229, 8490), (241, 8538), (261, 8568), (271, 8583), (297, 8637), (306, 8667), (307, 8670), (315, 8691), (325, 8721), (334, 8748), (342, 8781), (352, 8820), (359, 8847), (360, 8853), (364, 8868), (367, 8883), (383, 8910), (384, 8913), (393, 8934), (397, 8946), (399, 8952), (412, 9000), (423, 9036), (435, 9084), (443, 9111), (446, 9132), (464, 9195), (468, 9219), (478, 9276), (500, 9381), (502, 9402), (505, 9414), (509, 9456), (513, 9477), (519, 9498),

Gene: Biscayne_12 Start: 7608, Stop: 9713, Start Num: 22

Candidate Starts for Biscayne_12:

(Start: 22 @7608 has 124 MA's), (Start: 26 @7629 has 3 MA's), (52, 7806), (54, 7815), (57, 7839), (65, 7911), (69, 7935), (70, 7941), (90, 8091), (94, 8112), (96, 8124), (98, 8133), (131, 8340), (144, 8358), (183, 8445), (214, 8514), (229, 8526), (241, 8574), (261, 8604), (271, 8619), (288, 8655), (299, 8682), (306, 8703), (315, 8727), (323, 8751), (325, 8757), (334, 8784), (342, 8817), (352, 8856), (359, 8883), (364, 8904), (367, 8919), (383, 8946), (384, 8949), (393, 8970), (397, 8982), (399, 8988), (412, 9036), (435, 9120), (443, 9147), (446, 9168), (464, 9231), (468, 9255), (478, 9312), (500, 9417), (502, 9438), (505, 9450), (509, 9492), (513, 9513), (519, 9534), (543, 9663),

Gene: Bodacious_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Bodacious_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (73, 10131), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: Bodhi17_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Bodhi17_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: BonaeVitae_12 Start: 7240, Stop: 9339, Start Num: 22

Candidate Starts for BonaeVitae_12:

(Start: 22 @7240 has 124 MA's), (24, 7255), (Start: 26 @7261 has 3 MA's), (34, 7321), (44, 7375), (52, 7438), (54, 7447), (57, 7471), (65, 7543), (69, 7567), (85, 7666), (90, 7723), (96, 7756), (98, 7765), (156, 8032), (183, 8077), (227, 8149), (232, 8179), (261, 8236), (271, 8251), (301, 8320), (317, 8365), (323, 8383), (325, 8389), (342, 8449), (343, 8455), (348, 8470), (352, 8488), (359, 8515), (378, 8557), (393, 8602), (399, 8620), (407, 8647), (432, 8734), (435, 8752), (443, 8779), (451, 8821), (464, 8863), (465, 8866), (468, 8887), (489, 8998), (502, 9070), (505, 9082), (508, 9112), (509, 9124), (513, 9145), (539, 9253), (543, 9289),

Gene: BoomRoasted_12 Start: 7587, Stop: 9692, Start Num: 22

Candidate Starts for BoomRoasted_12:

(Start: 22 @7587 has 124 MA's), (Start: 26 @7608 has 3 MA's), (52, 7785), (54, 7794), (57, 7818), (65, 7890), (69, 7914), (70, 7920), (85, 8013), (90, 8070), (94, 8091), (96, 8103), (98, 8112), (131, 8319), (144, 8337), (183, 8424), (214, 8493), (229, 8505), (241, 8553), (261, 8583), (271, 8598), (288, 8634), (299, 8661), (307, 8685), (315, 8706), (323, 8730), (325, 8736), (334, 8763), (342, 8796), (352, 8835), (359, 8862), (364, 8883), (367, 8898), (383, 8925), (384, 8928), (393, 8949), (397, 8961), (399, 8967), (412, 9015), (423, 9051), (435, 9099), (443, 9126), (446, 9147), (464, 9210), (468, 9234), (478, 9291), (500, 9396), (502, 9417), (505, 9429), (509, 9471), (513, 9492), (519, 9513), (543, 9642),

Gene: Bradley2_12 Start: 7539, Stop: 9644, Start Num: 22

Candidate Starts for Bradley2_12:

(Start: 22 @7539 has 124 MA's), (Start: 26 @7560 has 3 MA's), (52, 7737), (54, 7746), (57, 7770), (65, 7842), (69, 7866), (70, 7872), (90, 8022), (94, 8043), (96, 8055), (98, 8064), (131, 8271), (144, 8289), (183, 8376), (214, 8445), (229, 8457), (241, 8505), (261, 8535), (271, 8550), (288, 8586), (299, 8613), (306, 8634), (315, 8658), (323, 8682), (325, 8688), (334, 8715), (342, 8748), (352, 8787), (359, 8814), (364, 8835), (367, 8850), (383, 8877), (384, 8880), (393, 8901), (397, 8913), (399, 8919), (412, 8967), (423, 9003), (435, 9051), (443, 9078), (446, 9099), (464, 9162), (468, 9186), (478, 9243), (500, 9348), (502, 9369), (505, 9381), (509, 9423), (513, 9444), (519, 9465), (543, 9594),

Gene: Bri160_12 Start: 7586, Stop: 9691, Start Num: 22

Candidate Starts for Bri160_12:

(Start: 22 @7586 has 124 MA's), (Start: 26 @7607 has 3 MA's), (52, 7784), (54, 7793), (57, 7817), (65, 7889), (69, 7913), (70, 7919), (85, 8012), (90, 8069), (94, 8090), (96, 8102), (98, 8111), (131, 8318), (144, 8336), (183, 8423), (214, 8492), (229, 8504), (241, 8552), (261, 8582), (271, 8597), (288, 8633), (299, 8660), (307, 8684), (315, 8705), (323, 8729), (325, 8735), (334, 8762), (342, 8795), (352, 8834), (359, 8861), (364, 8882), (367, 8897), (383, 8924), (384, 8927), (393, 8948), (397, 8960), (399, 8966), (412, 9014), (423, 9050), (435, 9098), (443, 9125), (446, 9146), (464, 9209), (468, 9233), (478, 9290), (500, 9395), (502, 9416), (505, 9428), (509, 9470), (513, 9491), (519, 9512), (543, 9641),

Gene: BrokMonster_12 Start: 7529, Stop: 9634, Start Num: 22

Candidate Starts for BrokMonster_12:

(Start: 22 @7529 has 124 MA's), (Start: 26 @7550 has 3 MA's), (52, 7727), (54, 7736), (57, 7760), (65, 7832), (69, 7856), (70, 7862), (85, 7955), (90, 8012), (94, 8033), (96, 8045), (98, 8054), (131, 8261), (144, 8279), (183, 8366), (214, 8435), (229, 8447), (241, 8495), (261, 8525), (271, 8540), (299, 8603),

(306, 8624), (307, 8627), (325, 8678), (334, 8705), (342, 8738), (352, 8777), (359, 8804), (364, 8825), (367, 8840), (383, 8867), (393, 8891), (397, 8903), (399, 8909), (412, 8957), (435, 9041), (443, 9068), (446, 9089), (464, 9152), (468, 9176), (478, 9233), (500, 9338), (502, 9359), (505, 9371), (509, 9413), (513, 9434), (519, 9455), (543, 9584),

Gene: BrotherBLo_18 Start: 12573, Stop: 15134, Start Num: 12

Candidate Starts for BrotherBLo_18:

(8, 12552), (Start: 12 @12573 has 83 MA's), (21, 12621), (24, 12654), (32, 12702), (35, 12726), (37, 12738), (49, 12798), (54, 12846), (55, 12861), (56, 12867), (73, 12987), (76, 13029), (91, 13125), (92, 13128), (97, 13158), (103, 13212), (128, 13353), (131, 13374), (134, 13398), (139, 13419), (144, 13428), (158, 13479), (163, 13497), (202, 13683), (232, 13827), (243, 13860), (250, 13887), (255, 13905), (257, 13911), (264, 13935), (266, 13944), (281, 13992), (289, 14019), (290, 14022), (296, 14043), (298, 14049), (299, 14055), (310, 14106), (315, 14121), (319, 14133), (321, 14139), (322, 14142), (325, 14151), (334, 14178), (337, 14190), (339, 14199), (342, 14211), (343, 14217), (349, 14238), (355, 14262), (357, 14271), (366, 14310), (371, 14328), (380, 14361), (381, 14364), (383, 14373), (384, 14376), (389, 14391), (414, 14481), (426, 14517), (450, 14625), (463, 14661), (466, 14682), (479, 14757), (480, 14760), (491, 14814), (497, 14853), (506, 14901), (507, 14910), (509, 14934), (512, 14952), (526, 15003), (534, 15027), (536, 15045), (542, 15075),

Gene: Bullzi2019_12 Start: 7561, Stop: 9666, Start Num: 22

Candidate Starts for Bullzi2019_12:

(Start: 22 @7561 has 124 MA's), (Start: 26 @7582 has 3 MA's), (52, 7759), (54, 7768), (57, 7792), (65, 7864), (69, 7888), (85, 7987), (94, 8065), (96, 8077), (98, 8086), (131, 8293), (144, 8311), (183, 8398), (214, 8467), (229, 8479), (241, 8527), (261, 8557), (271, 8572), (297, 8626), (306, 8656), (307, 8659), (315, 8680), (325, 8710), (334, 8737), (342, 8770), (352, 8809), (359, 8836), (360, 8842), (364, 8857), (367, 8872), (383, 8899), (384, 8902), (393, 8923), (397, 8935), (399, 8941), (412, 8989), (423, 9025), (435, 9073), (443, 9100), (446, 9121), (464, 9184), (468, 9208), (478, 9265), (500, 9370), (502, 9391), (509, 9445), (513, 9466), (519, 9487),

Gene: Burgy_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Burgy_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: BurtonThePup_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for BurtonThePup_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: CallieOMalley_18 Start: 12612, Stop: 15167, Start Num: 12

Candidate Starts for CallieOMalley_18:

(8, 12591), (Start: 12 @12612 has 83 MA's), (21, 12660), (32, 12741), (35, 12765), (40, 12795), (49, 12837), (55, 12900), (56, 12906), (76, 13068), (91, 13164), (92, 13167), (97, 13197), (116, 13335),

(139, 13458), (158, 13518), (163, 13536), (166, 13551), (176, 13602), (226, 13833), (244, 13902), (250, 13926), (255, 13944), (257, 13950), (272, 14004), (276, 14016), (283, 14037), (290, 14061), (311, 14148), (319, 14172), (321, 14178), (322, 14181), (326, 14193), (333, 14214), (334, 14217), (335, 14223), (337, 14229), (339, 14238), (341, 14247), (342, 14250), (343, 14256), (350, 14280), (355, 14301), (357, 14310), (362, 14328), (366, 14349), (369, 14358), (371, 14367), (380, 14400), (381, 14403), (383, 14412), (384, 14415), (400, 14466), (426, 14556), (450, 14664), (453, 14676), (462, 14697), (463, 14700), (479, 14796), (480, 14799), (491, 14853), (497, 14892), (507, 14949), (512, 14991), (526, 15039), (536, 15081), (542, 15111),

Gene: Canowicakte_18 Start: 12647, Stop: 15202, Start Num: 12

Candidate Starts for Canowicakte_18:

(8, 12626), (Start: 12 @12647 has 83 MA's), (21, 12695), (32, 12776), (35, 12800), (49, 12872), (54, 12920), (55, 12935), (56, 12941), (76, 13103), (86, 13148), (91, 13199), (92, 13202), (97, 13232), (116, 13370), (139, 13493), (158, 13553), (163, 13571), (166, 13586), (176, 13637), (226, 13868), (244, 13937), (250, 13961), (255, 13979), (257, 13985), (272, 14039), (276, 14051), (283, 14072), (290, 14096), (311, 14183), (319, 14207), (321, 14213), (322, 14216), (326, 14228), (333, 14249), (334, 14252), (335, 14258), (337, 14264), (339, 14273), (341, 14282), (342, 14285), (343, 14291), (350, 14315), (355, 14336), (357, 14345), (362, 14363), (366, 14384), (369, 14393), (371, 14402), (380, 14435), (381, 14438), (383, 14447), (384, 14450), (400, 14501), (426, 14591), (450, 14699), (453, 14711), (462, 14732), (463, 14735), (479, 14831), (480, 14834), (491, 14888), (497, 14927), (507, 14984), (512, 15026), (526, 15074), (536, 15116), (542, 15146),

Gene: Cappuccino_16 Start: 10243, Stop: 12663, Start Num: 16

Candidate Starts for Cappuccino_16:

(Start: 16 @10243 has 11 MA's), (28, 10330), (35, 10387), (44, 10435), (48, 10447), (54, 10507), (68, 10618), (78, 10699), (98, 10825), (100, 10840), (108, 10894), (144, 11068), (167, 11152), (172, 11173), (175, 11194), (180, 11215), (190, 11266), (214, 11341), (222, 11362), (229, 11395), (245, 11452), (256, 11494), (261, 11509), (276, 11560), (287, 11596), (322, 11704), (330, 11725), (340, 11767), (343, 11779), (357, 11833), (369, 11881), (406, 11977), (448, 12133), (453, 12154), (455, 12166), (470, 12217), (497, 12367), (504, 12403), (508, 12436), (540, 12595),

Gene: Caron_14 Start: 9969, Stop: 12317, Start Num: 17

Candidate Starts for Caron_14:

(Start: 17 @9969 has 7 MA's), (44, 10152), (57, 10248), (71, 10356), (78, 10416), (108, 10611), (117, 10674), (136, 10758), (144, 10770), (145, 10773), (159, 10824), (172, 10875), (186, 10956), (211, 11022), (217, 11046), (238, 11127), (260, 11187), (278, 11208), (310, 11298), (327, 11349), (352, 11445), (385, 11541), (387, 11547), (391, 11559), (399, 11580), (428, 11682), (435, 11715), (446, 11763), (468, 11853), (479, 11916), (483, 11928), (501, 12027), (519, 12132), (526, 12168),

Gene: Carpal_18 Start: 12574, Stop: 15135, Start Num: 12

Candidate Starts for Carpal_18:

(8, 12553), (Start: 12 @12574 has 83 MA's), (21, 12622), (24, 12655), (32, 12703), (35, 12727), (37, 12739), (49, 12799), (54, 12847), (55, 12862), (56, 12868), (73, 12988), (76, 13030), (91, 13126), (92, 13129), (97, 13159), (103, 13213), (128, 13354), (131, 13375), (134, 13399), (139, 13420), (144, 13429), (158, 13480), (163, 13498), (202, 13684), (232, 13828), (243, 13861), (250, 13888), (255, 13906), (257, 13912), (264, 13936), (266, 13945), (281, 13993), (289, 14020), (290, 14023), (296, 14044), (299, 14056), (310, 14107), (315, 14122), (319, 14134), (322, 14143), (325, 14152), (334, 14179), (337, 14191), (339, 14200), (342, 14212), (343, 14218), (349, 14239), (355, 14263), (357, 14272), (366, 14311), (380, 14362), (381, 14365), (383, 14374), (384, 14377), (389, 14392), (414, 14482), (426, 14518), (450, 14626), (463, 14662), (479, 14758), (480, 14761), (491, 14815), (497, 14854), (506, 14902), (507, 14911), (509, 14935), (512, 14953), (526, 15004), (534, 15028), (536, 15046), (542, 15076),

Gene: Cassia_16 Start: 10826, Stop: 13150, Start Num: 11

Candidate Starts for Cassia_16:

(Start: 11 @10826 has 52 MA's), (35, 10982), (36, 10991), (37, 10994), (50, 11072), (58, 11132), (72, 11249), (84, 11330), (85, 11333), (88, 11363), (101, 11447), (110, 11504), (113, 11528), (121, 11588), (122, 11594), (198, 11813), (257, 11981), (272, 12029), (289, 12083), (303, 12125), (313, 12164), (333, 12224), (358, 12317), (415, 12470), (418, 12482), (438, 12560), (439, 12563), (450, 12614), (479, 12746), (480, 12749), (501, 12860), (507, 12899),

Gene: Cayde6_12 Start: 7538, Stop: 9646, Start Num: 22

Candidate Starts for Cayde6_12:

(Start: 22 @7538 has 124 MA's), (Start: 26 @7559 has 3 MA's), (52, 7736), (54, 7745), (57, 7769), (65, 7841), (69, 7865), (70, 7871), (85, 7964), (90, 8021), (94, 8042), (96, 8054), (98, 8063), (131, 8270), (144, 8288), (183, 8375), (214, 8444), (229, 8456), (241, 8504), (261, 8534), (271, 8549), (288, 8585), (299, 8612), (315, 8657), (323, 8681), (325, 8687), (334, 8714), (342, 8747), (352, 8786), (359, 8813), (364, 8834), (367, 8849), (383, 8876), (384, 8879), (397, 8912), (399, 8918), (412, 8966), (423, 9002), (435, 9050), (443, 9077), (446, 9098), (464, 9161), (468, 9185), (478, 9242), (500, 9347), (502, 9368), (505, 9380), (509, 9422), (519, 9464), (543, 9596),

Gene: Cazares_12 Start: 7552, Stop: 9636, Start Num: 26

Candidate Starts for Cazares_12:

(Start: 22 @7531 has 124 MA's), (Start: 26 @7552 has 3 MA's), (52, 7729), (54, 7738), (57, 7762), (65, 7834), (69, 7858), (85, 7957), (90, 8014), (94, 8035), (96, 8047), (98, 8056), (131, 8263), (144, 8281), (183, 8368), (214, 8437), (229, 8449), (241, 8497), (261, 8527), (271, 8542), (306, 8626), (307, 8629), (315, 8650), (325, 8680), (334, 8707), (342, 8740), (352, 8779), (359, 8806), (360, 8812), (364, 8827), (367, 8842), (384, 8872), (393, 8893), (397, 8905), (399, 8911), (412, 8959), (423, 8995), (435, 9043), (443, 9070), (446, 9091), (464, 9154), (468, 9178), (478, 9235), (500, 9340), (502, 9361), (509, 9415), (513, 9436), (519, 9457),

Gene: Cen1621_14 Start: 9057, Stop: 11342, Start Num: 17

Candidate Starts for Cen1621_14:

(Start: 17 @9057 has 7 MA's), (39, 9216), (51, 9294), (57, 9336), (71, 9444), (76, 9495), (78, 9504), (90, 9588), (96, 9621), (100, 9645), (108, 9699), (117, 9762), (144, 9858), (145, 9861), (251, 10152), (257, 10173), (297, 10254), (315, 10308), (317, 10314), (331, 10353), (339, 10386), (360, 10470), (372, 10518), (389, 10578), (397, 10596), (407, 10629), (412, 10650), (420, 10677), (430, 10710), (435, 10734), (437, 10743), (464, 10845), (479, 10932), (499, 11028), (507, 11082), (508, 11094), (528, 11187),

Gene: Charbie_12 Start: 7528, Stop: 9633, Start Num: 22

Candidate Starts for Charbie_12:

(Start: 22 @7528 has 124 MA's), (Start: 26 @7549 has 3 MA's), (52, 7726), (54, 7735), (57, 7759), (65, 7831), (69, 7855), (70, 7861), (90, 8011), (94, 8032), (96, 8044), (98, 8053), (131, 8260), (144, 8278), (183, 8365), (214, 8434), (229, 8446), (241, 8494), (261, 8524), (271, 8539), (288, 8575), (299, 8602), (306, 8623), (315, 8647), (323, 8671), (325, 8677), (334, 8704), (342, 8737), (352, 8776), (359, 8803), (364, 8824), (367, 8839), (383, 8866), (384, 8869), (393, 8890), (397, 8902), (399, 8908), (412, 8956), (433, 9031), (435, 9040), (443, 9067), (446, 9088), (464, 9151), (468, 9175), (478, 9232), (500, 9337), (502, 9358), (505, 9370), (509, 9412), (513, 9433), (519, 9454),

Gene: Chatham_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Chatham_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815),

(364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Cheesecake_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Cheesecake_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: ChewChew_14 Start: 9716, Stop: 12277, Start Num: 12

Candidate Starts for ChewChew_14:

(8, 9695), (Start: 12 @9716 has 83 MA's), (21, 9764), (32, 9845), (35, 9869), (49, 9941), (54, 9989), (55, 10004), (56, 10010), (76, 10172), (91, 10268), (92, 10271), (97, 10301), (116, 10439), (131, 10517), (139, 10562), (144, 10571), (158, 10622), (163, 10640), (165, 10652), (170, 10676), (216, 10892), (235, 10982), (243, 11003), (250, 11030), (255, 11048), (257, 11054), (264, 11078), (266, 11087), (281, 11135), (289, 11162), (298, 11192), (310, 11249), (315, 11264), (319, 11276), (321, 11282), (322, 11285), (325, 11294), (334, 11321), (337, 11333), (339, 11342), (342, 11354), (343, 11360), (350, 11384), (355, 11405), (357, 11414), (361, 11429), (365, 11450), (366, 11453), (380, 11504), (381, 11507), (384, 11519), (406, 11594), (414, 11624), (426, 11660), (450, 11768), (453, 11780), (463, 11804), (479, 11900), (480, 11903), (488, 11936), (491, 11957), (497, 11996), (501, 12014), (506, 12044), (507, 12053), (509, 12077), (527, 12152), (542, 12218),

Gene: Cholula_18 Start: 12619, Stop: 15180, Start Num: 12

Candidate Starts for Cholula_18:

(8, 12598), (Start: 12 @12619 has 83 MA's), (21, 12667), (24, 12700), (32, 12748), (35, 12772), (37, 12784), (49, 12844), (54, 12892), (55, 12907), (56, 12913), (73, 13033), (76, 13075), (90, 13168), (91, 13171), (92, 13174), (97, 13204), (103, 13258), (128, 13399), (131, 13420), (134, 13444), (139, 13465), (144, 13474), (158, 13525), (163, 13543), (168, 13567), (202, 13729), (232, 13873), (243, 13906), (250, 13933), (255, 13951), (257, 13957), (264, 13981), (266, 13990), (281, 14038), (289, 14065), (296, 14089), (298, 14095), (299, 14101), (310, 14152), (315, 14167), (319, 14179), (321, 14185), (322, 14188), (325, 14197), (334, 14224), (337, 14236), (339, 14245), (342, 14257), (343, 14263), (349, 14284), (357, 14317), (366, 14356), (380, 14407), (381, 14410), (383, 14419), (384, 14422), (389, 14437), (412, 14521), (414, 14527), (426, 14563), (450, 14671), (453, 14683), (463, 14707), (479, 14803), (480, 14806), (491, 14860), (497, 14899), (506, 14947), (507, 14956), (509, 14980), (512, 14998), (526, 15049), (534, 15073), (536, 15091), (542, 15121),

Gene: Chridison_14 Start: 9739, Stop: 12297, Start Num: 12

Candidate Starts for Chridison_14:

(Start: 12 @9739 has 83 MA's), (15, 9748), (Start: 19 @9778 has 16 MA's), (32, 9868), (49, 9964), (53, 10009), (55, 10027), (76, 10195), (91, 10291), (92, 10294), (94, 10309), (106, 10396), (146, 10600), (147, 10603), (167, 10687), (232, 10993), (250, 11053), (255, 11071), (257, 11077), (266, 11110), (270, 11122), (281, 11158), (289, 11185), (296, 11209), (298, 11215), (310, 11272), (318, 11296), (321, 11305), (326, 11320), (334, 11344), (337, 11356), (342, 11377), (343, 11383), (349, 11404), (355, 11428), (357, 11437), (362, 11455), (366, 11476), (368, 11482), (371, 11494), (380, 11527), (381, 11530), (384, 11542), (389, 11557), (390, 11560), (414, 11647), (438, 11737), (439, 11740), (450, 11791), (466, 11848), (467, 11857), (471, 11869), (479, 11923), (480, 11926), (491, 11980), (497, 12019), (506, 12067), (507, 12076), (509, 12100), (511, 12112), (536, 12208), (542, 12238),

Gene: Christian_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Christian_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (321, 11283), (325, 11295), (334, 11322), (335, 11328), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: Cicada_21 Start: 13577, Stop: 15565, Start Num: 19

Candidate Starts for Cicada_21:

(Start: 19 @13577 has 16 MA's), (25, 13616), (43, 13727), (48, 13742), (49, 13754), (72, 13946), (75, 13970), (82, 14012), (93, 14102), (102, 14153), (111, 14219), (123, 14300), (127, 14315), (131, 14339), (144, 14402), (152, 14426), (180, 14528), (193, 14552), (210, 14621), (217, 14654), (304, 14852), (345, 14879), (350, 14897), (371, 14951), (384, 14999), (388, 15011), (390, 15017), (431, 15083), (433, 15095), (492, 15272), (497, 15308), (503, 15338), (510, 15398), (543, 15539),

Gene: Ciel_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Ciel_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Clownery_12 Start: 7648, Stop: 9753, Start Num: 22

Candidate Starts for Clownery_12:

(Start: 22 @7648 has 124 MA's), (Start: 26 @7669 has 3 MA's), (52, 7846), (54, 7855), (57, 7879), (65, 7951), (69, 7975), (85, 8074), (90, 8131), (94, 8152), (96, 8164), (98, 8173), (131, 8380), (144, 8398), (183, 8485), (214, 8554), (229, 8566), (241, 8614), (261, 8644), (271, 8659), (306, 8743), (307, 8746), (315, 8767), (325, 8797), (334, 8824), (342, 8857), (352, 8896), (359, 8923), (360, 8929), (364, 8944), (367, 8959), (384, 8989), (393, 9010), (397, 9022), (399, 9028), (412, 9076), (423, 9112), (435, 9160), (443, 9187), (446, 9208), (464, 9271), (468, 9295), (478, 9352), (500, 9457), (502, 9478), (509, 9532), (513, 9553), (519, 9574),

Gene: Community_16 Start: 11793, Stop: 14270, Start Num: 11

Candidate Starts for Community_16:

(Start: 11 @11793 has 52 MA's), (35, 11949), (36, 11958), (50, 12039), (58, 12099), (63, 12144), (72, 12216), (85, 12300), (88, 12330), (97, 12384), (101, 12414), (110, 12471), (113, 12495), (121, 12555), (122, 12561), (129, 12585), (145, 12663), (155, 12696), (186, 12831), (198, 12873), (220, 12972), (235, 13044), (249, 13083), (257, 13110), (272, 13158), (283, 13191), (303, 13254), (319, 13311), (333, 13353), (337, 13368), (358, 13446), (395, 13569), (420, 13617), (425, 13632), (446, 13725), (450, 13743), (453, 13755), (479, 13875), (480, 13878), (501, 13989), (507, 14028), (524, 14118),

Gene: Concrete_12 Start: 7587, Stop: 9692, Start Num: 22

Candidate Starts for Concrete_12:

(Start: 22 @7587 has 124 MA's), (Start: 26 @7608 has 3 MA's), (52, 7785), (54, 7794), (57, 7818), (65, 7890), (69, 7914), (70, 7920), (85, 8013), (90, 8070), (94, 8091), (96, 8103), (98, 8112), (131, 8319), (144, 8337), (183, 8424), (214, 8493), (229, 8505), (241, 8553), (261, 8583), (271, 8598), (288, 8634), (299, 8661), (307, 8685), (315, 8706), (323, 8730), (325, 8736), (334, 8763), (342, 8796), (352, 8835), (359, 8862), (364, 8883), (367, 8898), (383, 8925), (384, 8928), (393, 8949), (397, 8961), (399, 8967), (412, 9015), (423, 9051), (435, 9099), (443, 9126), (446, 9147), (464, 9210), (468, 9234), (478, 9291), (500, 9396), (502, 9417), (505, 9429), (509, 9471), (513, 9492), (519, 9513), (543, 9642),

Gene: Crewmate_17 Start: 11180, Stop: 13486, Start Num: 11

Candidate Starts for Crewmate_17:

(Start: 11 @11180 has 52 MA's), (34, 11333), (35, 11336), (36, 11345), (58, 11486), (72, 11603), (85, 11687), (88, 11717), (97, 11771), (110, 11858), (113, 11882), (121, 11942), (122, 11948), (134, 12014), (197, 12164), (198, 12167), (254, 12326), (257, 12335), (272, 12383), (289, 12437), (303, 12479), (313, 12518), (333, 12578), (337, 12593), (358, 12671), (370, 12719), (395, 12794), (406, 12806), (422, 12848), (425, 12857), (450, 12968), (479, 13100), (480, 13103), (501, 13214), (507, 13253), (516, 13307), (522, 13328), (524, 13343), (541, 13421),

Gene: CristinaYang_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for CristinaYang_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (73, 10131), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: Cyan_16 Start: 10730, Stop: 13045, Start Num: 11

Candidate Starts for Cyan_16:

(Start: 11 @10730 has 52 MA's), (35, 10886), (36, 10895), (50, 10976), (51, 10988), (58, 11036), (72, 11153), (84, 11234), (85, 11237), (88, 11267), (97, 11321), (101, 11351), (110, 11408), (113, 11432), (121, 11492), (198, 11717), (234, 11813), (257, 11885), (272, 11933), (289, 11987), (303, 12029), (313, 12068), (333, 12128), (425, 12407), (431, 12431), (438, 12464), (439, 12467), (450, 12518), (476, 12629), (479, 12650), (480, 12653), (488, 12686), (501, 12764), (507, 12803), (518, 12863), (524, 12893), (536, 12944), (543, 12989), (549, 13034),

Gene: DaftyDuck_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for DaftyDuck_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472), (543, 9601),

Gene: Daiboju_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Daiboju_14:

(Start: 12 @9744 has 83 MA's), (15, 9753), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650),

(176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: Danimal_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Danimal_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Danno_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Danno_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Dino_18 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Dino_18:

(8, 12551), (Start: 12 @12572 has 83 MA's), (21, 12620), (24, 12653), (32, 12701), (35, 12725), (37, 12737), (49, 12797), (54, 12845), (55, 12860), (56, 12866), (73, 12986), (76, 13028), (91, 13124), (92, 13127), (97, 13157), (103, 13211), (128, 13352), (131, 13373), (134, 13397), (139, 13418), (144, 13427), (158, 13478), (163, 13496), (202, 13682), (232, 13826), (243, 13859), (250, 13886), (255, 13904), (257, 13910), (264, 13934), (266, 13943), (281, 13991), (289, 14018), (290, 14021), (296, 14042), (299, 14054), (310, 14105), (315, 14120), (319, 14132), (322, 14141), (325, 14150), (334, 14177), (337, 14189), (339, 14198), (342, 14210), (343, 14216), (349, 14237), (355, 14261), (357, 14270), (366, 14309), (380, 14360), (381, 14363), (383, 14372), (384, 14375), (389, 14390), (414, 14480), (426, 14516), (450, 14624), (463, 14660), (479, 14756), (480, 14759), (491, 14813), (497, 14852), (506, 14900), (507, 14909), (509, 14933), (512, 14951), (526, 15002), (534, 15026), (536, 15044), (542, 15074),

Gene: DirtPie_12 Start: 7639, Stop: 9744, Start Num: 22

Candidate Starts for DirtPie_12:

(Start: 22 @7639 has 124 MA's), (Start: 26 @7660 has 3 MA's), (52, 7837), (54, 7846), (57, 7870), (65, 7942), (69, 7966), (70, 7972), (90, 8122), (94, 8143), (96, 8155), (98, 8164), (131, 8371), (144, 8389), (183, 8476), (214, 8545), (229, 8557), (241, 8605), (261, 8635), (271, 8650), (288, 8686), (299, 8713), (306, 8734), (315, 8758), (323, 8782), (325, 8788), (334, 8815), (342, 8848), (352, 8887), (359, 8914), (364, 8935), (367, 8950), (383, 8977), (384, 8980), (393, 9001), (397, 9013), (399, 9019), (412, 9067), (433, 9142), (435, 9151), (443, 9178), (446, 9199), (464, 9262), (468, 9286), (478, 9343), (500, 9448), (502, 9469), (505, 9481), (509, 9523), (513, 9544), (519, 9565), (543, 9694),

Gene: Dongwon_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Dongwon_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Donkey_16 Start: 10243, Stop: 12663, Start Num: 16

Candidate Starts for Donkey_16:

(Start: 16 @10243 has 11 MA's), (28, 10330), (35, 10387), (44, 10435), (48, 10447), (54, 10507), (68, 10618), (78, 10699), (98, 10825), (100, 10840), (108, 10894), (144, 11068), (167, 11152), (172, 11173), (175, 11194), (180, 11215), (190, 11266), (214, 11341), (222, 11362), (229, 11395), (245, 11452), (256, 11494), (261, 11509), (276, 11560), (287, 11596), (322, 11704), (330, 11725), (340, 11767), (343, 11779), (357, 11833), (369, 11881), (406, 11977), (448, 12133), (453, 12154), (455, 12166), (470, 12217), (497, 12367), (504, 12403), (518, 12484), (540, 12595),

Gene: Dooby_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Dooby_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Douggie_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Douggie_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: DrManhattan_16 Start: 10713, Stop: 12947, Start Num: 11

Candidate Starts for DrManhattan_16:

(Start: 11 @10713 has 52 MA's), (23, 10788), (35, 10869), (36, 10878), (41, 10905), (50, 10959), (51, 10971), (58, 11019), (60, 11031), (72, 11136), (84, 11217), (85, 11220), (88, 11250), (101, 11334), (110, 11391), (113, 11415), (118, 11457), (121, 11475), (129, 11505), (135, 11544), (140, 11562), (187, 11634), (189, 11637), (196, 11655), (228, 11700), (242, 11757), (254, 11796), (257, 11805), (272, 11853), (275, 11862), (303, 11949), (306, 11961), (313, 11988), (319, 12006), (333, 12048), (360, 12150), (376, 12210), (395, 12264), (408, 12282), (419, 12309), (422, 12318), (445, 12408), (448, 12429), (461, 12462), (471, 12516), (475, 12537), (500, 12669), (504, 12699), (530, 12828), (541, 12882),

Gene: DrRobert_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for DrRobert_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (462, 11802), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: DrSierra_16 Start: 10741, Stop: 13035, Start Num: 11

Candidate Starts for DrSierra_16:

(Start: 11 @10741 has 52 MA's), (35, 10897), (36, 10906), (38, 10915), (41, 10933), (50, 10987), (51, 10999), (58, 11047), (72, 11164), (84, 11245), (85, 11248), (88, 11278), (97, 11332), (101, 11362), (106, 11404), (110, 11419), (113, 11443), (118, 11485), (121, 11503), (144, 11608), (198, 11728), (242, 11848), (249, 11869), (254, 11887), (257, 11896), (272, 11944), (275, 11953), (289, 11998), (303, 12040), (313, 12079), (319, 12097), (333, 12139), (360, 12241), (371, 12286), (376, 12301), (395, 12355), (408, 12373), (419, 12400), (422, 12409), (445, 12499), (461, 12553), (471, 12607), (475, 12628), (500, 12760), (504, 12790), (541, 12970),

Gene: DreamTeam_14 Start: 9784, Stop: 12330, Start Num: 12

Candidate Starts for DreamTeam_14:

(8, 9763), (Start: 12 @9784 has 83 MA's), (21, 9832), (32, 9913), (40, 9967), (49, 10009), (54, 10057), (55, 10072), (56, 10078), (76, 10240), (86, 10285), (91, 10336), (92, 10339), (128, 10564), (131, 10585), (144, 10639), (150, 10657), (151, 10660), (158, 10690), (232, 11026), (248, 11080), (250, 11086), (255, 11104), (257, 11110), (270, 11155), (280, 11188), (281, 11191), (295, 11239), (296, 11242), (299, 11254), (302, 11263), (311, 11308), (314, 11317), (321, 11338), (325, 11350), (326, 11353), (334, 11377), (335, 11383), (337, 11389), (342, 11410), (343, 11416), (349, 11437), (355, 11461), (357, 11470), (362, 11488), (366, 11509), (368, 11515), (380, 11560), (381, 11563), (383, 11572), (384, 11575), (412, 11674), (414, 11680), (430, 11734), (450, 11824), (479, 11956), (480, 11959), (491, 12013), (497, 12052), (501, 12070), (506, 12100), (507, 12109), (512, 12151), (542, 12271),

Gene: ELee24_11 Start: 7568, Stop: 9673, Start Num: 22

Candidate Starts for ELee24_11:

(Start: 22 @7568 has 124 MA's), (24, 7583), (Start: 26 @7589 has 3 MA's), (34, 7649), (52, 7766), (54, 7775), (57, 7799), (65, 7871), (69, 7895), (85, 7994), (90, 8051), (94, 8072), (98, 8093), (131, 8300), (144, 8318), (183, 8405), (214, 8474), (229, 8486), (232, 8507), (238, 8525), (241, 8534), (271, 8579), (288, 8615), (306, 8663), (307, 8666), (325, 8717), (335, 8750), (342, 8777), (352, 8816), (359, 8843), (364, 8864), (367, 8879), (393, 8930), (397, 8942), (399, 8948), (404, 8960), (432, 9062), (433, 9071), (435, 9080), (443, 9107), (464, 9191), (468, 9215), (502, 9398), (505, 9410), (509, 9452), (513, 9473), (519, 9494), (543, 9623),

Gene: EdElric_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for EdElric_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 3

Candidate Starts for Edmundo_67:

(Start: 3 @37140 has 7 MA's), (7, 37161), (13, 37191), (Start: 14 @37194 has 1 MA's), (31, 37299), (45, 37392), (52, 37452), (79, 37662), (81, 37668), (82, 37671), (83, 37674), (87, 37701), (93, 37761), (102, 37812), (107, 37854), (108, 37857), (112, 37884), (119, 37941), (123, 37959), (160, 38109), (172, 38169), (192, 38202), (195, 38211), (212, 38277), (218, 38301), (242, 38397), (257, 38445), (258, 38448), (262, 38460), (267, 38481), (271, 38493), (286, 38544), (313, 38637), (318, 38652), (342, 38727), (351, 38760), (353, 38772), (356, 38781), (363, 38811), (366, 38826), (369, 38835), (373, 38850), (388, 38904), (422, 38943), (452, 39069), (496, 39219), (498, 39240), (504, 39273), (505, 39276), (507, 39294), (509, 39318), (511, 39330), (517, 39351), (544, 39486), (546, 39507), (550, 39528), (551, 39570), (552, 39573), (555, 39681), (556, 39705), (557, 39714), (559, 39768), (560, 39777), (562, 39840), (564, 39870), (565, 39879), (567, 39978), (568, 39984), (570, 40014), (571, 40053), (573, 40140),

Gene: Efeke_13 Start: 7413, Stop: 9512, Start Num: 22

Candidate Starts for Efeke_13:

(Start: 22 @7413 has 124 MA's), (47, 7557), (49, 7572), (51, 7602), (54, 7620), (57, 7644), (65, 7716), (69, 7740), (70, 7746), (85, 7839), (94, 7917), (96, 7929), (98, 7938), (131, 8145), (146, 8169), (149, 8178), (156, 8205), (183, 8250), (205, 8295), (279, 8430), (298, 8478), (301, 8490), (312, 8523), (323, 8556), (325, 8562), (331, 8577), (336, 8598), (352, 8661), (354, 8670), (360, 8694), (362, 8700), (364, 8709), (378, 8730), (383, 8751), (384, 8754), (393, 8775), (397, 8787), (399, 8793), (407, 8820), (412, 8841), (420, 8868), (432, 8907), (435, 8925), (443, 8952), (446, 8973), (464, 9036), (465, 9039), (468, 9060), (477, 9105), (489, 9171), (500, 9222), (502, 9243), (505, 9255), (509, 9297), (537, 9420), (539, 9426),

Gene: Eightball_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Eightball_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Ekko14_12 Start: 7529, Stop: 9634, Start Num: 22

Candidate Starts for Ekko14_12:

(Start: 22 @7529 has 124 MA's), (Start: 26 @7550 has 3 MA's), (52, 7727), (54, 7736), (57, 7760), (65, 7832), (69, 7856), (85, 7955), (94, 8033), (96, 8045), (98, 8054), (131, 8261), (144, 8279), (183, 8366), (214, 8435), (229, 8447), (241, 8495), (261, 8525), (271, 8540), (306, 8624), (307, 8627), (315, 8648), (325, 8678), (334, 8705), (342, 8738), (352, 8777), (359, 8804), (360, 8810), (364, 8825), (367, 8840), (384, 8870), (393, 8891), (397, 8903), (399, 8909), (412, 8957), (423, 8993), (435, 9041), (443, 9068), (446, 9089), (464, 9152), (468, 9176), (478, 9233), (500, 9338), (502, 9359), (509, 9413), (513, 9434), (519, 9455),

Gene: Elezi_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for Elezi_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660),

(501, 12738), (507, 12777), (518, 12837), (536, 12927),

Gene: Elspeth_12 Start: 7529, Stop: 9634, Start Num: 22

Candidate Starts for Elspeth_12:

(Start: 22 @7529 has 124 MA's), (Start: 26 @7550 has 3 MA's), (52, 7727), (54, 7736), (57, 7760), (65, 7832), (69, 7856), (85, 7955), (94, 8033), (96, 8045), (98, 8054), (131, 8261), (144, 8279), (183, 8366), (214, 8435), (229, 8447), (241, 8495), (261, 8525), (271, 8540), (306, 8624), (307, 8627), (315, 8648), (325, 8678), (334, 8705), (342, 8738), (352, 8777), (359, 8804), (360, 8810), (364, 8825), (367, 8840), (384, 8870), (393, 8891), (397, 8903), (399, 8909), (412, 8957), (423, 8993), (435, 9041), (443, 9068), (446, 9089), (464, 9152), (468, 9176), (478, 9233), (500, 9338), (502, 9359), (509, 9413), (513, 9434), (519, 9455),

Gene: Emotion_15 Start: 9044, Stop: 11284, Start Num: 11

Candidate Starts for Emotion_15:

(Start: 11 @9044 has 52 MA's), (27, 9131), (43, 9233), (52, 9299), (67, 9404), (81, 9515), (83, 9521), (102, 9659), (108, 9704), (123, 9806), (128, 9824), (162, 9938), (207, 10034), (225, 10121), (234, 10160), (246, 10184), (253, 10208), (255, 10217), (261, 10235), (268, 10262), (286, 10313), (290, 10325), (307, 10382), (323, 10436), (336, 10478), (368, 10607), (383, 10664), (441, 10796), (442, 10799), (479, 10916), (497, 11012), (500, 11018), (504, 11048),

Gene: Eraser_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for Eraser_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (246, 11820), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660), (501, 12738), (507, 12777), (518, 12837),

Gene: Erin_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Erin_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: EstebanJulior_14 Start: 9752, Stop: 12301, Start Num: 12

Candidate Starts for EstebanJulior_14:

(5, 9722), (Start: 12 @9752 has 83 MA's), (32, 9881), (37, 9917), (54, 10025), (55, 10040), (75, 10187), (76, 10208), (91, 10304), (104, 10394), (118, 10487), (139, 10598), (158, 10658), (161, 10667), (222, 10940), (232, 10994), (243, 11027), (248, 11048), (250, 11054), (255, 11072), (281, 11159), (299, 11222), (311, 11276), (314, 11285), (321, 11306), (325, 11318), (326, 11321), (334, 11345), (335, 11351), (337, 11357), (339, 11366), (342, 11378), (343, 11384), (349, 11405), (357, 11438), (361, 11453), (362, 11456), (366, 11477), (368, 11483), (371, 11495), (380, 11528), (381, 11531), (383, 11540), (384, 11543), (389, 11558), (412, 11642), (424, 11681), (450, 11792), (453, 11804), (466, 11849), (479, 11924), (480, 11927), (491, 11981), (506, 12068), (507, 12077), (509, 12101), (511, 12113), (526, 12170), (527, 12176), (542, 12242), (548, 12284),

Gene: Eunoia_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Eunoia_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (53, 10008), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109), (270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: FireCastle_19 Start: 13235, Stop: 15373, Start Num: 19

Candidate Starts for FireCastle_19:

(Start: 19 @13235 has 16 MA's), (43, 13385), (72, 13604), (74, 13619), (82, 13670), (102, 13811), (108, 13856), (111, 13877), (114, 13901), (127, 13973), (131, 13997), (132, 14000), (147, 14069), (150, 14078), (152, 14084), (169, 14162), (171, 14168), (193, 14210), (210, 14279), (213, 14294), (217, 14312), (231, 14345), (239, 14378), (282, 14477), (294, 14501), (304, 14534), (376, 14756), (387, 14798), (390, 14807), (431, 14873), (483, 15017), (492, 15062), (496, 15083), (497, 15098), (503, 15128), (510, 15188), (517, 15212),

Gene: Fluke_18 Start: 12615, Stop: 15176, Start Num: 12

Candidate Starts for Fluke_18:

(8, 12594), (Start: 12 @12615 has 83 MA's), (21, 12663), (24, 12696), (32, 12744), (35, 12768), (37, 12780), (49, 12840), (54, 12888), (55, 12903), (56, 12909), (73, 13029), (76, 13071), (91, 13167), (92, 13170), (97, 13200), (103, 13254), (128, 13395), (131, 13416), (134, 13440), (139, 13461), (144, 13470), (158, 13521), (163, 13539), (202, 13725), (232, 13869), (243, 13902), (250, 13929), (255, 13947), (257, 13953), (264, 13977), (266, 13986), (281, 14034), (289, 14061), (298, 14091), (299, 14097), (310, 14148), (315, 14163), (319, 14175), (321, 14181), (322, 14184), (325, 14193), (334, 14220), (337, 14232), (339, 14241), (342, 14253), (343, 14259), (349, 14280), (355, 14304), (357, 14313), (366, 14352), (371, 14370), (380, 14403), (381, 14406), (383, 14415), (384, 14418), (389, 14433), (414, 14523), (426, 14559), (450, 14667), (463, 14703), (479, 14799), (480, 14802), (491, 14856), (497, 14895), (506, 14943), (507, 14952), (509, 14976), (512, 14994), (526, 15045), (534, 15069), (536, 15087), (542, 15117),

Gene: Gabbspett_12 Start: 7641, Stop: 9746, Start Num: 22

Candidate Starts for Gabbspett_12:

(Start: 22 @7641 has 124 MA's), (Start: 26 @7662 has 3 MA's), (52, 7839), (54, 7848), (57, 7872), (65, 7944), (69, 7968), (70, 7974), (90, 8124), (94, 8145), (96, 8157), (98, 8166), (131, 8373), (144, 8391), (183, 8478), (214, 8547), (229, 8559), (241, 8607), (261, 8637), (271, 8652), (288, 8688), (299, 8715), (306, 8736), (315, 8760), (323, 8784), (325, 8790), (334, 8817), (342, 8850), (352, 8889), (359, 8916), (364, 8937), (367, 8952), (383, 8979), (384, 8982), (393, 9003), (397, 9015), (399, 9021), (412, 9069), (433, 9144), (435, 9153), (443, 9180), (446, 9201), (464, 9264), (468, 9288), (478, 9345), (500, 9450), (502, 9471), (505, 9483), (509, 9525), (513, 9546), (519, 9567),

Gene: Gambol_16 Start: 10243, Stop: 12663, Start Num: 16

Candidate Starts for Gambol_16:

(Start: 16 @10243 has 11 MA's), (28, 10330), (35, 10387), (44, 10435), (48, 10447), (54, 10507), (68, 10618), (78, 10699), (98, 10825), (100, 10840), (108, 10894), (144, 11068), (167, 11152), (172, 11173), (175, 11194), (180, 11215), (190, 11266), (214, 11341), (222, 11362), (229, 11395), (245, 11452), (256, 11494), (261, 11509), (276, 11560), (287, 11596), (322, 11704), (330, 11725), (340, 11767), (343, 11779), (357, 11833), (369, 11881), (406, 11977), (448, 12133), (453, 12154), (455, 12166), (470, 12217), (497, 12367), (504, 12403), (518, 12484), (540, 12595),

Gene: GardenState_15 Start: 10196, Stop: 12547, Start Num: 17

Candidate Starts for GardenState_15:

(Start: 17 @10196 has 7 MA's), (44, 10379), (71, 10595), (78, 10655), (90, 10739), (98, 10781), (108, 10850), (117, 10913), (144, 11009), (145, 11012), (159, 11063), (172, 11114), (198, 11228), (200, 11237), (215, 11276), (284, 11465), (314, 11549), (327, 11588), (334, 11609), (352, 11684), (387, 11786), (399, 11819), (431, 11933), (434, 11948), (435, 11954), (472, 12104), (478, 12149), (479, 12155), (501, 12266), (507, 12305), (519, 12371),

Gene: Gardevoir_12 Start: 7574, Stop: 9679, Start Num: 22

Candidate Starts for Gardevoir_12:

(Start: 22 @7574 has 124 MA's), (Start: 26 @7595 has 3 MA's), (52, 7772), (54, 7781), (57, 7805), (65, 7877), (69, 7901), (70, 7907), (90, 8057), (94, 8078), (96, 8090), (98, 8099), (131, 8306), (144, 8324), (183, 8411), (214, 8480), (229, 8492), (241, 8540), (261, 8570), (271, 8585), (288, 8621), (299, 8648), (306, 8669), (315, 8693), (323, 8717), (325, 8723), (334, 8750), (342, 8783), (352, 8822), (359, 8849), (364, 8870), (367, 8885), (383, 8912), (384, 8915), (393, 8936), (397, 8948), (399, 8954), (412, 9002), (423, 9038), (435, 9086), (443, 9113), (446, 9134), (464, 9197), (468, 9221), (478, 9278), (500, 9383), (502, 9404), (505, 9416), (509, 9458), (513, 9479), (519, 9500), (543, 9629),

Gene: Gillker_12 Start: 7539, Stop: 9644, Start Num: 22

Candidate Starts for Gillker_12:

(Start: 22 @7539 has 124 MA's), (Start: 26 @7560 has 3 MA's), (52, 7737), (54, 7746), (57, 7770), (65, 7842), (69, 7866), (70, 7872), (90, 8022), (94, 8043), (96, 8055), (98, 8064), (131, 8271), (144, 8289), (183, 8376), (214, 8445), (229, 8457), (241, 8505), (261, 8535), (271, 8550), (288, 8586), (299, 8613), (306, 8634), (315, 8658), (323, 8682), (325, 8688), (334, 8715), (342, 8748), (352, 8787), (359, 8814), (364, 8835), (367, 8850), (383, 8877), (384, 8880), (393, 8901), (397, 8913), (399, 8919), (412, 8967), (423, 9003), (435, 9051), (443, 9078), (446, 9099), (464, 9162), (468, 9186), (478, 9243), (500, 9348), (502, 9369), (505, 9381), (509, 9423), (513, 9444), (519, 9465), (543, 9594),

Gene: Giorgio_16 Start: 10343, Stop: 12763, Start Num: 16

Candidate Starts for Giorgio_16:

(Start: 16 @10343 has 11 MA's), (28, 10430), (44, 10535), (48, 10547), (54, 10607), (68, 10718), (78, 10799), (98, 10925), (100, 10940), (108, 10994), (144, 11168), (167, 11252), (172, 11273), (180, 11315), (214, 11441), (222, 11462), (229, 11495), (245, 11552), (256, 11594), (261, 11609), (276, 11660), (287, 11696), (289, 11702), (322, 11804), (330, 11825), (340, 11867), (356, 11927), (357, 11933), (369, 11981), (406, 12077), (448, 12233), (453, 12254), (455, 12266), (470, 12317), (497, 12467), (504, 12503), (518, 12584), (537, 12671), (540, 12695),

Gene: Gisselle_14 Start: 9784, Stop: 12330, Start Num: 12

Candidate Starts for Gisselle_14:

(8, 9763), (Start: 12 @9784 has 83 MA's), (21, 9832), (32, 9913), (40, 9967), (49, 10009), (54, 10057), (55, 10072), (56, 10078), (76, 10240), (86, 10285), (91, 10336), (92, 10339), (128, 10564), (131, 10585), (144, 10639), (150, 10657), (151, 10660), (158, 10690), (232, 11026), (248, 11080), (250, 11086), (255, 11104), (257, 11110), (270, 11155), (280, 11188), (281, 11191), (295, 11239), (296, 11242), (299, 11254), (302, 11263), (311, 11308), (314, 11317), (321, 11338), (325, 11350), (326, 11353), (334, 11377), (335, 11383), (337, 11389), (342, 11410), (343, 11416), (349, 11437), (355, 11461), (357, 11470), (362, 11488), (366, 11509), (368, 11515), (380, 11560), (381, 11563), (383, 11572), (384, 11575), (412, 11674), (414, 11680), (430, 11734), (450, 11824), (479, 11956), (480, 11959), (491, 12013), (497, 12052), (501, 12070), (506, 12100), (507, 12109), (512, 12151), (542, 12271),

Gene: Glenn_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for Glenn_18:

(8, 12603), (Start: 12 @12624 has 83 MA's), (21, 12672), (24, 12705), (32, 12753), (35, 12777), (37, 12789), (49, 12849), (54, 12897), (55, 12912), (56, 12918), (73, 13038), (76, 13080), (91, 13176), (92,

13179), (97, 13209), (103, 13263), (128, 13404), (131, 13425), (134, 13449), (139, 13470), (144, 13479), (158, 13530), (163, 13548), (202, 13734), (232, 13878), (243, 13911), (250, 13938), (255, 13956), (257, 13962), (264, 13986), (266, 13995), (281, 14043), (289, 14070), (298, 14100), (299, 14106), (310, 14157), (315, 14172), (319, 14184), (321, 14190), (322, 14193), (325, 14202), (334, 14229), (337, 14241), (339, 14250), (342, 14262), (343, 14268), (349, 14289), (355, 14313), (357, 14322), (366, 14361), (371, 14379), (380, 14412), (381, 14415), (383, 14424), (384, 14427), (389, 14442), (414, 14532), (426, 14568), (450, 14676), (463, 14712), (479, 14808), (480, 14811), (491, 14865), (497, 14904), (506, 14952), (507, 14961), (509, 14985), (512, 15003), (526, 15054), (534, 15078), (536, 15096), (542, 15126),

Gene: Godfather_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Godfather_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: GoldenBlanche_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for GoldenBlanche_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Goobery_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Goobery_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Goodman_20 Start: 13490, Stop: 15478, Start Num: 19

Candidate Starts for Goodman_20:

(1, 13391), (Start: 19 @13490 has 16 MA's), (43, 13640), (48, 13655), (49, 13667), (72, 13859), (75, 13883), (82, 13925), (93, 14015), (102, 14066), (111, 14132), (123, 14213), (127, 14228), (131, 14252), (152, 14339), (180, 14441), (193, 14465), (210, 14534), (217, 14567), (304, 14765), (345, 14792), (350, 14810), (371, 14864), (384, 14912), (388, 14924), (390, 14930), (431, 14996), (433, 15008), (434, 15011), (492, 15185), (497, 15221), (503, 15251), (510, 15311), (543, 15452),

Gene: GreenHearts_18 Start: 12707, Stop: 15268, Start Num: 12

Candidate Starts for GreenHearts_18:

(8, 12686), (Start: 12 @12707 has 83 MA's), (27, 12797), (32, 12836), (37, 12872), (49, 12932), (54, 12980), (55, 12995), (76, 13163), (86, 13208), (91, 13259), (92, 13262), (103, 13346), (134, 13532), (146, 13568), (150, 13580), (161, 13622), (226, 13931), (250, 14024), (255, 14042), (257, 14048),

(281, 14129), (283, 14135), (291, 14162), (299, 14192), (314, 14255), (319, 14270), (322, 14279), (323, 14282), (326, 14291), (334, 14315), (337, 14327), (338, 14333), (342, 14348), (343, 14354), (344, 14357), (350, 14378), (353, 14393), (357, 14408), (362, 14426), (363, 14432), (366, 14447), (369, 14456), (371, 14465), (380, 14498), (381, 14501), (384, 14513), (386, 14519), (390, 14531), (409, 14597), (412, 14612), (421, 14642), (424, 14651), (450, 14762), (463, 14798), (466, 14819), (479, 14894), (480, 14897), (491, 14951), (497, 14990), (507, 15047), (509, 15071), (519, 15113), (526, 15140), (542, 15209),

Gene: Greenhouse_18 Start: 12631, Stop: 15192, Start Num: 12

Candidate Starts for Greenhouse_18:

(8, 12610), (Start: 12 @12631 has 83 MA's), (27, 12721), (32, 12760), (41, 12817), (49, 12856), (54, 12904), (55, 12919), (76, 13087), (86, 13132), (91, 13183), (97, 13216), (128, 13411), (139, 13477), (146, 13492), (150, 13504), (161, 13546), (182, 13657), (202, 13744), (226, 13855), (232, 13888), (250, 13948), (257, 13972), (258, 13975), (281, 14053), (283, 14059), (284, 14062), (291, 14086), (299, 14116), (314, 14179), (319, 14194), (321, 14200), (322, 14203), (326, 14215), (334, 14239), (337, 14251), (338, 14257), (342, 14272), (343, 14278), (344, 14281), (350, 14302), (353, 14317), (357, 14332), (362, 14350), (363, 14356), (366, 14371), (369, 14380), (380, 14422), (381, 14425), (384, 14437), (386, 14443), (390, 14455), (405, 14503), (409, 14521), (412, 14536), (421, 14566), (424, 14575), (450, 14686), (463, 14722), (466, 14743), (479, 14818), (480, 14821), (491, 14875), (497, 14914), (507, 14971), (509, 14995), (519, 15037), (526, 15064), (542, 15133),

Gene: Gumpizza_16 Start: 10336, Stop: 12756, Start Num: 16

Candidate Starts for Gumpizza_16:

(Start: 16 @10336 has 11 MA's), (28, 10423), (44, 10528), (48, 10540), (54, 10600), (68, 10711), (78, 10792), (98, 10918), (100, 10933), (108, 10987), (144, 11161), (167, 11245), (172, 11266), (180, 11308), (214, 11434), (222, 11455), (229, 11488), (245, 11545), (256, 11587), (261, 11602), (276, 11653), (287, 11689), (289, 11695), (322, 11797), (330, 11818), (340, 11860), (356, 11920), (357, 11926), (369, 11974), (406, 12070), (448, 12226), (453, 12247), (455, 12259), (470, 12310), (497, 12460), (504, 12496), (537, 12664), (540, 12688),

Gene: Halsey_16 Start: 10335, Stop: 12755, Start Num: 16

Candidate Starts for Halsey_16:

(Start: 16 @10335 has 11 MA's), (28, 10422), (44, 10527), (48, 10539), (54, 10599), (68, 10710), (78, 10791), (98, 10917), (100, 10932), (108, 10986), (144, 11160), (167, 11244), (172, 11265), (180, 11307), (214, 11433), (222, 11454), (229, 11487), (245, 11544), (256, 11586), (261, 11601), (276, 11652), (287, 11688), (289, 11694), (322, 11796), (330, 11817), (340, 11859), (356, 11919), (357, 11925), (369, 11973), (406, 12069), (453, 12246), (455, 12258), (470, 12309), (485, 12390), (497, 12459), (504, 12495), (518, 12576), (522, 12591), (537, 12663), (540, 12687),

Gene: HarperAnne_12 Start: 7528, Stop: 9633, Start Num: 22

Candidate Starts for HarperAnne_12:

(Start: 22 @7528 has 124 MA's), (Start: 26 @7549 has 3 MA's), (52, 7726), (54, 7735), (57, 7759), (65, 7831), (69, 7855), (85, 7954), (94, 8032), (96, 8044), (98, 8053), (131, 8260), (144, 8278), (183, 8365), (214, 8434), (229, 8446), (241, 8494), (261, 8524), (271, 8539), (306, 8623), (307, 8626), (315, 8647), (325, 8677), (334, 8704), (342, 8737), (352, 8776), (359, 8803), (360, 8809), (364, 8824), (367, 8839), (384, 8869), (393, 8890), (397, 8902), (399, 8908), (412, 8956), (423, 8992), (435, 9040), (443, 9067), (446, 9088), (464, 9151), (468, 9175), (478, 9232), (500, 9337), (502, 9358), (509, 9412), (513, 9433), (519, 9454),

Gene: HeadMave_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for HeadMave_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296),

(183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: HeadNerd_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for HeadNerd_14:

(8, 9699), (Start: 12 @9720 has 83 MA's), (21, 9768), (32, 9849), (35, 9873), (49, 9945), (54, 9993), (55, 10008), (56, 10014), (76, 10176), (90, 10269), (91, 10272), (92, 10275), (97, 10305), (104, 10362), (128, 10500), (131, 10521), (139, 10566), (150, 10593), (158, 10626), (163, 10644), (172, 10686), (182, 10743), (243, 11007), (250, 11034), (255, 11052), (257, 11058), (264, 11082), (270, 11103), (281, 11139), (289, 11166), (298, 11196), (299, 11202), (310, 11253), (321, 11286), (334, 11325), (335, 11331), (337, 11337), (339, 11346), (342, 11358), (343, 11364), (350, 11388), (355, 11409), (357, 11418), (366, 11457), (371, 11475), (380, 11508), (381, 11511), (384, 11523), (389, 11538), (405, 11589), (412, 11622), (417, 11640), (426, 11664), (435, 11706), (450, 11772), (453, 11784), (466, 11829), (479, 11904), (480, 11907), (491, 11961), (497, 12000), (502, 12027), (507, 12057), (508, 12069), (509, 12081), (510, 12090), (526, 12156), (536, 12198), (542, 12228),

Gene: Herb_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Herb_14:

(Start: 12 @9744 has 83 MA's), (15, 9753), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650), (176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: Hernandez44_12 Start: 7641, Stop: 9746, Start Num: 22

Candidate Starts for Hernandez44_12:

(Start: 22 @7641 has 124 MA's), (Start: 26 @7662 has 3 MA's), (52, 7839), (54, 7848), (57, 7872), (65, 7944), (69, 7968), (70, 7974), (90, 8124), (94, 8145), (96, 8157), (98, 8166), (131, 8373), (144, 8391), (183, 8478), (214, 8547), (229, 8559), (241, 8607), (261, 8637), (271, 8652), (288, 8688), (299, 8715), (306, 8736), (315, 8760), (323, 8784), (325, 8790), (334, 8817), (342, 8850), (352, 8889), (359, 8916), (364, 8937), (367, 8952), (383, 8979), (384, 8982), (393, 9003), (397, 9015), (399, 9021), (412, 9069), (433, 9144), (435, 9153), (443, 9180), (446, 9201), (464, 9264), (468, 9288), (478, 9345), (500, 9450), (502, 9471), (505, 9483), (509, 9525), (513, 9546), (519, 9567),

Gene: Honk_14 Start: 9008, Stop: 11266, Start Num: 17

Candidate Starts for Honk_14:

(Start: 17 @9008 has 7 MA's), (39, 9167), (44, 9191), (48, 9203), (51, 9245), (57, 9287), (71, 9395), (76, 9446), (78, 9455), (96, 9572), (99, 9587), (100, 9596), (108, 9650), (117, 9713), (136, 9797), (144, 9809), (145, 9812), (148, 9821), (172, 9872), (208, 9986), (241, 10082), (257, 10124), (302, 10223), (314, 10256), (317, 10265), (342, 10349), (384, 10481), (396, 10511), (399, 10520), (423, 10604), (426, 10610), (428, 10619), (434, 10646), (435, 10652), (462, 10751), (477, 10832), (501, 10964), (507, 11003), (508, 11015), (519, 11069), (523, 11084), (528, 11111),

Gene: Horacetta_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Horacetta_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Htur_19 Start: 13514, Stop: 15508, Start Num: 19

Candidate Starts for Htur_19:

(Start: 19 @13514 has 16 MA's), (25, 13553), (43, 13664), (48, 13679), (49, 13691), (62, 13805), (72, 13883), (75, 13907), (93, 14039), (102, 14090), (111, 14156), (127, 14252), (152, 14363), (193, 14489), (209, 14549), (213, 14573), (217, 14591), (231, 14624), (291, 14771), (304, 14789), (347, 14822), (351, 14837), (376, 14903), (447, 15062), (449, 15068), (450, 15074), (479, 15152), (484, 15167), (492, 15209), (503, 15275), (513, 15344), (543, 15482),

Gene: Huckleberry_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Huckleberry_14:

(8, 9699), (Start: 12 @9720 has 83 MA's), (21, 9768), (32, 9849), (35, 9873), (49, 9945), (54, 9993), (55, 10008), (56, 10014), (76, 10176), (90, 10269), (91, 10272), (92, 10275), (97, 10305), (104, 10362), (128, 10500), (131, 10521), (139, 10566), (150, 10593), (158, 10626), (163, 10644), (172, 10686), (182, 10743), (243, 11007), (250, 11034), (255, 11052), (257, 11058), (264, 11082), (270, 11103), (281, 11139), (289, 11166), (298, 11196), (299, 11202), (310, 11253), (321, 11286), (334, 11325), (335, 11331), (337, 11337), (339, 11346), (342, 11358), (343, 11364), (350, 11388), (355, 11409), (357, 11418), (366, 11457), (371, 11475), (380, 11508), (381, 11511), (384, 11523), (389, 11538), (405, 11589), (412, 11622), (417, 11640), (426, 11664), (435, 11706), (450, 11772), (453, 11784), (466, 11829), (479, 11904), (480, 11907), (491, 11961), (497, 12000), (502, 12027), (507, 12057), (508, 12069), (509, 12081), (510, 12090), (526, 12156), (536, 12198), (542, 12228),

Gene: Hulk_12 Start: 7553, Stop: 9658, Start Num: 22

Candidate Starts for Hulk_12:

(Start: 22 @7553 has 124 MA's), (Start: 26 @7574 has 3 MA's), (52, 7751), (54, 7760), (57, 7784), (65, 7856), (69, 7880), (70, 7886), (90, 8036), (94, 8057), (96, 8069), (98, 8078), (131, 8285), (144, 8303), (183, 8390), (214, 8459), (229, 8471), (241, 8519), (261, 8549), (271, 8564), (288, 8600), (299, 8627), (306, 8648), (315, 8672), (323, 8696), (325, 8702), (334, 8729), (342, 8762), (352, 8801), (359, 8828), (364, 8849), (367, 8864), (383, 8891), (384, 8894), (393, 8915), (397, 8927), (399, 8933), (412, 8981), (433, 9056), (435, 9065), (443, 9092), (446, 9113), (464, 9176), (478, 9257), (500, 9362), (502, 9383), (505, 9395), (509, 9437), (513, 9458), (519, 9479), (543, 9608),

Gene: HunterDalle_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for HunterDalle_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (116, 10461), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109), (270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: Huntingdon_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for Huntingdon_18:

(8, 12596), (Start: 12 @12617 has 83 MA's), (27, 12707), (32, 12746), (37, 12782), (49, 12842), (55, 12905), (76, 13073), (86, 13118), (90, 13166), (91, 13169), (92, 13172), (103, 13256), (104, 13259), (128, 13397), (139, 13463), (150, 13490), (161, 13532), (226, 13841), (232, 13874), (250, 13934), (257, 13958), (281, 14039), (283, 14045), (284, 14048), (291, 14072), (299, 14102), (305, 14123), (316, 14171), (321, 14186), (326, 14201), (334, 14225), (337, 14237), (338, 14243), (342, 14258), (343, 14264), (353, 14303), (355, 14309), (357, 14318), (362, 14336), (363, 14342), (365, 14354), (366, 14357), (369, 14366), (374, 14384), (380, 14408), (381, 14411), (384, 14423), (390, 14441), (409, 14507), (412, 14522), (421, 14552), (424, 14561), (439, 14621), (450, 14672), (463, 14708), (479, 14804), (480, 14807), (491, 14861), (497, 14900), (502, 14927), (507, 14957), (509, 14981), (519, 15023), (526, 15050), (542, 15119),

Gene: IAmGroot_15 Start: 10840, Stop: 13191, Start Num: 17

Candidate Starts for IAmGroot_15:

(Start: 17 @10840 has 7 MA's), (44, 11023), (71, 11239), (78, 11299), (90, 11383), (98, 11425), (108, 11494), (117, 11557), (144, 11653), (145, 11656), (159, 11707), (172, 11758), (198, 11872), (200, 11881), (215, 11920), (284, 12109), (314, 12193), (327, 12232), (334, 12253), (352, 12328), (387, 12430), (391, 12442), (399, 12463), (431, 12577), (434, 12592), (435, 12598), (479, 12799), (507, 12949), (519, 13015),

Gene: Immaculata_18 Start: 12618, Stop: 15179, Start Num: 12

Candidate Starts for Immaculata_18:

(8, 12597), (Start: 12 @12618 has 83 MA's), (21, 12666), (24, 12699), (32, 12747), (35, 12771), (37, 12783), (49, 12843), (54, 12891), (55, 12906), (56, 12912), (73, 13032), (76, 13074), (90, 13167), (91, 13170), (92, 13173), (97, 13203), (103, 13257), (128, 13398), (131, 13419), (134, 13443), (139, 13464), (144, 13473), (158, 13524), (163, 13542), (168, 13566), (202, 13728), (232, 13872), (243, 13905), (250, 13932), (255, 13950), (257, 13956), (264, 13980), (266, 13989), (281, 14037), (289, 14064), (296, 14088), (298, 14094), (299, 14100), (310, 14151), (315, 14166), (319, 14178), (321, 14184), (322, 14187), (325, 14196), (334, 14223), (337, 14235), (339, 14244), (342, 14256), (343, 14262), (349, 14283), (357, 14316), (366, 14355), (380, 14406), (381, 14409), (383, 14418), (384, 14421), (389, 14436), (412, 14520), (414, 14526), (426, 14562), (450, 14670), (453, 14682), (463, 14706), (479, 14802), (480, 14805), (491, 14859), (497, 14898), (506, 14946), (507, 14955), (509, 14979), (512, 14997), (526, 15048), (534, 15072), (536, 15090), (542, 15120),

Gene: IndiRoo_19 Start: 11519, Stop: 13810, Start Num: 19

Candidate Starts for IndiRoo_19:

(Start: 19 @11519 has 16 MA's), (37, 11636), (43, 11669), (62, 11810), (72, 11888), (75, 11912), (93, 12044), (102, 12095), (109, 12146), (124, 12245), (132, 12284), (141, 12332), (150, 12362), (169, 12446), (193, 12494), (198, 12512), (210, 12563), (224, 12629), (247, 12716), (266, 12782), (271, 12797), (276, 12815), (283, 12836), (293, 12869), (350, 13058), (355, 13079), (358, 13091), (360, 13100), (375, 13157), (383, 13190), (390, 13211), (433, 13289), (436, 13301), (444, 13331), (449, 13358), (479, 13442), (483, 13454), (487, 13475), (488, 13478), (507, 13592), (515, 13643), (520, 13658),

Gene: Iter_16 Start: 10739, Stop: 13054, Start Num: 11

Candidate Starts for Iter_16:

(Start: 11 @10739 has 52 MA's), (35, 10895), (38, 10913), (42, 10937), (50, 10985), (58, 11045), (63, 11090), (72, 11162), (85, 11246), (88, 11276), (97, 11330), (101, 11360), (110, 11417), (113, 11441), (121, 11501), (122, 11507), (198, 11726), (257, 11894), (272, 11942), (303, 12038), (313, 12077), (319, 12095), (333, 12137), (339, 12161), (355, 12218), (358, 12230), (387, 12341), (420, 12401), (425, 12416), (450, 12527), (476, 12638), (479, 12659), (480, 12662), (488, 12695), (501, 12773), (507, 12812), (524, 12902), (527, 12914), (543, 12998),

Gene: IttyBittyPiggy_16 Start: 10723, Stop: 13035, Start Num: 11

Candidate Starts for IttyBittyPiggy_16:

(Start: 11 @10723 has 52 MA's), (35, 10879), (39, 10903), (50, 10969), (51, 10981), (58, 11029), (72, 11146), (84, 11227), (85, 11230), (88, 11260), (101, 11344), (110, 11401), (113, 11425), (121, 11485), (122, 11491), (246, 11839), (257, 11878), (272, 11926), (289, 11980), (303, 12022), (313, 12061), (333, 12121), (358, 12214), (416, 12370), (419, 12382), (422, 12391), (450, 12511), (479, 12643), (480, 12646), (501, 12757), (507, 12796), (509, 12820), (518, 12856), (522, 12871), (541, 12970),

Gene: IzzyPants24_11 Start: 7579, Stop: 9684, Start Num: 22

Candidate Starts for IzzyPants24_11:

(Start: 22 @7579 has 124 MA's), (Start: 26 @7600 has 3 MA's), (52, 7777), (54, 7786), (57, 7810), (65, 7882), (69, 7906), (85, 8005), (94, 8083), (96, 8095), (98, 8104), (131, 8311), (144, 8329), (183, 8416), (214, 8485), (229, 8497), (241, 8545), (261, 8575), (271, 8590), (297, 8644), (306, 8674), (307, 8677), (315, 8698), (325, 8728), (334, 8755), (342, 8788), (352, 8827), (359, 8854), (360, 8860), (364, 8875), (367, 8890), (383, 8917), (384, 8920), (393, 8941), (397, 8953), (399, 8959), (412, 9007), (423, 9043), (435, 9091), (443, 9118), (446, 9139), (464, 9202), (468, 9226), (478, 9283), (500, 9388), (502, 9409), (509, 9463), (513, 9484), (519, 9505),

Gene: JRok_12 Start: 7531, Stop: 9636, Start Num: 22

Candidate Starts for JRok_12:

(Start: 22 @7531 has 124 MA's), (Start: 26 @7552 has 3 MA's), (52, 7729), (54, 7738), (57, 7762), (65, 7834), (69, 7858), (70, 7864), (90, 8014), (94, 8035), (96, 8047), (98, 8056), (131, 8263), (144, 8281), (183, 8368), (214, 8437), (229, 8449), (241, 8497), (261, 8527), (271, 8542), (299, 8605), (306, 8626), (307, 8629), (325, 8680), (334, 8707), (342, 8740), (352, 8779), (359, 8806), (364, 8827), (367, 8842), (383, 8869), (393, 8893), (397, 8905), (399, 8911), (412, 8959), (435, 9043), (443, 9070), (446, 9091), (464, 9154), (468, 9178), (474, 9202), (477, 9223), (500, 9340), (502, 9361), (505, 9373), (509, 9415), (513, 9436), (519, 9457), (543, 9586),

Gene: Jahseh_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Jahseh_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: JaimeB_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for JaimeB_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Janeemi_17 Start: 11821, Stop: 14298, Start Num: 11

Candidate Starts for Janeemi_17:

(Start: 11 @11821 has 52 MA's), (35, 11977), (36, 11986), (72, 12244), (88, 12358), (89, 12367), (97, 12412), (110, 12499), (113, 12523), (121, 12583), (122, 12589), (129, 12613), (145, 12691), (155, 12724), (186, 12859), (198, 12901), (235, 13072), (249, 13111), (257, 13138), (272, 13186), (303, 13282), (313, 13321), (319, 13339), (323, 13351), (333, 13381), (355, 13462), (395, 13597), (420,

13645), (425, 13660), (446, 13753), (450, 13771), (453, 13783), (479, 13903), (480, 13906), (501, 14017), (507, 14056), (522, 14131), (524, 14146),

Gene: Jannah_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Jannah_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466),

Gene: JasmineDragon_15 Start: 8971, Stop: 11214, Start Num: 11

Candidate Starts for JasmineDragon_15:

(Start: 11 @8971 has 52 MA's), (27, 9058), (43, 9160), (52, 9226), (67, 9331), (81, 9442), (83, 9448), (95, 9544), (102, 9586), (123, 9733), (128, 9751), (162, 9868), (174, 9895), (196, 9928), (207, 9964), (216, 10012), (225, 10051), (234, 10090), (253, 10138), (255, 10147), (258, 10156), (261, 10165), (272, 10207), (286, 10243), (290, 10255), (304, 10300), (305, 10306), (311, 10330), (323, 10366), (330, 10384), (336, 10408), (338, 10417), (341, 10429), (347, 10450), (348, 10453), (355, 10483), (442, 10729), (479, 10846), (497, 10942), (500, 10948), (504, 10978),

Gene: Jella_12 Start: 7564, Stop: 9669, Start Num: 22

Candidate Starts for Jella_12:

(Start: 22 @7564 has 124 MA's), (Start: 26 @7585 has 3 MA's), (52, 7762), (54, 7771), (57, 7795), (65, 7867), (69, 7891), (70, 7897), (90, 8047), (94, 8068), (96, 8080), (98, 8089), (131, 8296), (144, 8314), (183, 8401), (214, 8470), (229, 8482), (241, 8530), (261, 8560), (271, 8575), (288, 8611), (299, 8638), (306, 8659), (315, 8683), (323, 8707), (325, 8713), (334, 8740), (342, 8773), (352, 8812), (359, 8839), (364, 8860), (367, 8875), (383, 8902), (384, 8905), (393, 8926), (397, 8938), (399, 8944), (412, 8992), (433, 9067), (435, 9076), (443, 9103), (446, 9124), (464, 9187), (468, 9211), (478, 9268), (500, 9373), (502, 9394), (505, 9406), (509, 9448), (513, 9469), (519, 9490),

Gene: Jera_20 Start: 12587, Stop: 14575, Start Num: 19

Candidate Starts for Jera_20:

(Start: 19 @12587 has 16 MA's), (25, 12626), (43, 12737), (48, 12752), (49, 12764), (72, 12956), (75, 12980), (102, 13163), (111, 13229), (127, 13325), (131, 13349), (152, 13436), (180, 13538), (193, 13562), (210, 13631), (217, 13664), (231, 13697), (282, 13829), (345, 13889), (365, 13940), (384, 14009), (388, 14021), (390, 14027), (492, 14282), (503, 14348), (510, 14408), (543, 14549),

Gene: Jerky_12 Start: 7627, Stop: 9732, Start Num: 22

Candidate Starts for Jerky_12:

(Start: 22 @7627 has 124 MA's), (Start: 26 @7648 has 3 MA's), (52, 7825), (54, 7834), (57, 7858), (65, 7930), (69, 7954), (70, 7960), (90, 8110), (94, 8131), (96, 8143), (98, 8152), (131, 8359), (144, 8377), (183, 8464), (214, 8533), (229, 8545), (241, 8593), (261, 8623), (271, 8638), (299, 8701), (306, 8722), (315, 8746), (323, 8770), (325, 8776), (334, 8803), (342, 8836), (352, 8875), (359, 8902), (364, 8923), (367, 8938), (383, 8965), (384, 8968), (393, 8989), (397, 9001), (399, 9007), (412, 9055), (423, 9091), (433, 9130), (435, 9139), (443, 9166), (446, 9187), (464, 9250), (468, 9274), (478, 9331), (500, 9436), (502, 9457), (505, 9469), (509, 9511), (513, 9532), (519, 9553), (543, 9682),

Gene: JoBros_12 Start: 7541, Stop: 9646, Start Num: 22

Candidate Starts for JoBros_12:

(Start: 22 @7541 has 124 MA's), (Start: 26 @7562 has 3 MA's), (52, 7739), (54, 7748), (57, 7772), (65, 7844), (69, 7868), (70, 7874), (90, 8024), (94, 8045), (96, 8057), (98, 8066), (131, 8273), (144, 8291),

(183, 8378), (214, 8447), (229, 8459), (241, 8507), (261, 8537), (271, 8552), (288, 8588), (299, 8615), (306, 8636), (315, 8660), (323, 8684), (325, 8690), (334, 8717), (342, 8750), (352, 8789), (359, 8816), (364, 8837), (367, 8852), (383, 8879), (384, 8882), (393, 8903), (397, 8915), (399, 8921), (412, 8969), (423, 9005), (435, 9053), (443, 9080), (446, 9101), (464, 9164), (468, 9188), (478, 9245), (500, 9350), (502, 9371), (505, 9383), (509, 9425), (513, 9446), (519, 9467), (543, 9596),

Gene: Joann_18 Start: 12611, Stop: 15172, Start Num: 12

Candidate Starts for Joann_18:

(8, 12590), (Start: 12 @12611 has 83 MA's), (27, 12701), (32, 12740), (37, 12776), (49, 12836), (54, 12884), (55, 12899), (76, 13067), (86, 13112), (91, 13163), (92, 13166), (103, 13250), (139, 13457), (144, 13466), (150, 13484), (161, 13526), (226, 13835), (232, 13868), (250, 13928), (257, 13952), (281, 14033), (283, 14039), (284, 14042), (291, 14066), (299, 14096), (305, 14117), (321, 14180), (326, 14195), (334, 14219), (337, 14231), (338, 14237), (342, 14252), (343, 14258), (344, 14261), (350, 14282), (353, 14297), (357, 14312), (362, 14330), (363, 14336), (366, 14351), (369, 14360), (371, 14369), (380, 14402), (381, 14405), (384, 14417), (386, 14423), (390, 14435), (409, 14501), (412, 14516), (439, 14615), (450, 14666), (453, 14678), (462, 14699), (479, 14798), (480, 14801), (491, 14855), (497, 14894), (507, 14951), (509, 14975), (519, 15017), (526, 15044), (542, 15113),

Gene: Joemato_16 Start: 10730, Stop: 13045, Start Num: 11

Candidate Starts for Joemato_16:

(Start: 11 @10730 has 52 MA's), (35, 10886), (36, 10895), (50, 10976), (51, 10988), (58, 11036), (72, 11153), (84, 11234), (85, 11237), (88, 11267), (97, 11321), (101, 11351), (110, 11408), (113, 11432), (121, 11492), (198, 11717), (234, 11813), (257, 11885), (272, 11933), (289, 11987), (303, 12029), (313, 12068), (333, 12128), (425, 12407), (431, 12431), (438, 12464), (439, 12467), (450, 12518), (476, 12629), (479, 12650), (480, 12653), (488, 12686), (501, 12764), (505, 12785), (507, 12803), (518, 12863), (524, 12893), (536, 12944), (543, 12989), (549, 13034),

Gene: Johann_20 Start: 13490, Stop: 15478, Start Num: 19

Candidate Starts for Johann_20:

(1, 13391), (Start: 19 @13490 has 16 MA's), (43, 13640), (48, 13655), (49, 13667), (72, 13859), (75, 13883), (82, 13925), (93, 14015), (102, 14066), (111, 14132), (123, 14213), (127, 14228), (131, 14252), (152, 14339), (180, 14441), (193, 14465), (210, 14534), (217, 14567), (304, 14765), (345, 14792), (350, 14810), (371, 14864), (384, 14912), (388, 14924), (390, 14930), (431, 14996), (433, 15008), (434, 15011), (492, 15185), (497, 15221), (503, 15251), (510, 15311), (543, 15452),

Gene: JohnDoe_16 Start: 10725, Stop: 13040, Start Num: 11

Candidate Starts for JohnDoe_16:

(Start: 11 @10725 has 52 MA's), (35, 10881), (36, 10890), (50, 10971), (51, 10983), (58, 11031), (72, 11148), (84, 11229), (85, 11232), (88, 11262), (97, 11316), (101, 11346), (110, 11403), (113, 11427), (121, 11487), (198, 11712), (234, 11808), (257, 11880), (272, 11928), (289, 11982), (303, 12024), (313, 12063), (333, 12123), (425, 12402), (431, 12426), (438, 12459), (439, 12462), (450, 12513), (476, 12624), (479, 12645), (480, 12648), (488, 12681), (501, 12759), (507, 12798), (518, 12858), (524, 12888), (536, 12939), (543, 12984), (549, 13029),

Gene: JooneeDee_12 Start: 7572, Stop: 9677, Start Num: 22

Candidate Starts for JooneeDee_12:

(4, 7476), (Start: 22 @7572 has 124 MA's), (Start: 26 @7593 has 3 MA's), (48, 7719), (52, 7770), (54, 7779), (57, 7803), (65, 7875), (69, 7899), (85, 7998), (94, 8076), (96, 8088), (98, 8097), (131, 8304), (144, 8322), (183, 8409), (214, 8478), (229, 8490), (241, 8538), (261, 8568), (271, 8583), (297, 8637), (306, 8667), (307, 8670), (315, 8691), (325, 8721), (334, 8748), (342, 8781), (352, 8820), (359, 8847), (360, 8853), (364, 8868), (367, 8883), (383, 8910), (384, 8913), (393, 8934), (397, 8946), (399, 8952), (412, 9000), (423, 9036), (435, 9084), (443, 9111), (446, 9132), (464, 9195), (468, 9219), (478, 9276), (500, 9381), (502, 9402), (505, 9414), (509, 9456), (513, 9477), (519, 9498),

Gene: Josuke_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Josuke_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Jstan_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for Jstan_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (246, 11820), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660), (501, 12738), (507, 12777), (518, 12837), (536, 12927),

Gene: Jumboset_18 Start: 12567, Stop: 15128, Start Num: 12

Candidate Starts for Jumboset_18:

(8, 12546), (Start: 12 @12567 has 83 MA's), (21, 12615), (24, 12648), (32, 12696), (35, 12720), (37, 12732), (49, 12792), (54, 12840), (55, 12855), (56, 12861), (73, 12981), (76, 13023), (91, 13119), (92, 13122), (97, 13152), (103, 13206), (104, 13209), (128, 13347), (131, 13368), (134, 13392), (139, 13413), (144, 13422), (158, 13473), (163, 13491), (202, 13677), (232, 13821), (243, 13854), (250, 13881), (255, 13899), (257, 13905), (264, 13929), (266, 13938), (281, 13986), (289, 14013), (290, 14016), (296, 14037), (298, 14043), (299, 14049), (310, 14100), (315, 14115), (319, 14127), (321, 14133), (322, 14136), (325, 14145), (334, 14172), (337, 14184), (339, 14193), (342, 14205), (343, 14211), (349, 14232), (357, 14265), (366, 14304), (380, 14355), (381, 14358), (383, 14367), (384, 14370), (389, 14385), (414, 14475), (426, 14511), (450, 14619), (463, 14655), (479, 14751), (480, 14754), (491, 14808), (497, 14847), (506, 14895), (507, 14904), (509, 14928), (512, 14946), (526, 14997), (534, 15021), (536, 15039), (542, 15069),

Gene: JuneStar_16 Start: 10824, Stop: 13148, Start Num: 11

Candidate Starts for JuneStar_16:

(Start: 11 @10824 has 52 MA's), (38, 10998), (42, 11022), (50, 11070), (58, 11130), (70, 11235), (72, 11247), (84, 11328), (85, 11331), (88, 11361), (97, 11415), (101, 11445), (106, 11487), (110, 11502), (113, 11526), (116, 11556), (121, 11586), (122, 11592), (198, 11811), (246, 11940), (257, 11979), (272, 12027), (279, 12048), (289, 12081), (303, 12123), (313, 12162), (333, 12222), (358, 12315), (376, 12384), (450, 12612), (476, 12723), (479, 12744), (480, 12747), (501, 12858), (507, 12897),

Gene: Kaijohn_12 Start: 7545, Stop: 9650, Start Num: 22

Candidate Starts for Kaijohn_12:

(Start: 22 @7545 has 124 MA's), (Start: 26 @7566 has 3 MA's), (52, 7743), (54, 7752), (57, 7776), (65, 7848), (69, 7872), (70, 7878), (85, 7971), (90, 8028), (94, 8049), (96, 8061), (98, 8070), (131, 8277), (144, 8295), (183, 8382), (214, 8451), (229, 8463), (241, 8511), (261, 8541), (271, 8556), (288, 8592), (299, 8619), (306, 8640), (315, 8664), (323, 8688), (325, 8694), (334, 8721), (342, 8754), (352, 8793), (359, 8820), (364, 8841), (367, 8856), (383, 8883), (384, 8886), (393, 8907), (397, 8919), (399, 8925), (412, 8973), (435, 9057), (443, 9084), (446, 9105), (464, 9168), (478, 9249), (500, 9354), (505, 9387), (509, 9429), (513, 9450), (519, 9471), (543, 9600),

Gene: Kalimba_16 Start: 10244, Stop: 12664, Start Num: 16

Candidate Starts for Kalimba_16:

(Start: 16 @10244 has 11 MA's), (28, 10331), (35, 10388), (44, 10436), (48, 10448), (54, 10508), (68, 10619), (78, 10700), (98, 10826), (100, 10841), (108, 10895), (144, 11069), (167, 11153), (172, 11174), (175, 11195), (180, 11216), (190, 11267), (214, 11342), (222, 11363), (229, 11396), (245, 11453), (256, 11495), (261, 11510), (276, 11561), (287, 11597), (322, 11705), (330, 11726), (340, 11768), (343, 11780), (357, 11834), (369, 11882), (406, 11978), (448, 12134), (453, 12155), (455, 12167), (470, 12218), (497, 12368), (504, 12404), (508, 12437), (540, 12596),

Gene: Kalizoi_18 Start: 12566, Stop: 15127, Start Num: 12

Candidate Starts for Kalizoi_18:

(8, 12545), (Start: 12 @12566 has 83 MA's), (21, 12614), (24, 12647), (32, 12695), (35, 12719), (37, 12731), (49, 12791), (54, 12839), (55, 12854), (56, 12860), (73, 12980), (76, 13022), (91, 13118), (92, 13121), (97, 13151), (103, 13205), (128, 13346), (131, 13367), (134, 13391), (139, 13412), (144, 13421), (158, 13472), (163, 13490), (202, 13676), (232, 13820), (243, 13853), (250, 13880), (255, 13898), (257, 13904), (264, 13928), (266, 13937), (281, 13985), (289, 14012), (290, 14015), (296, 14036), (299, 14048), (310, 14099), (315, 14114), (319, 14126), (322, 14135), (325, 14144), (334, 14171), (337, 14183), (339, 14192), (342, 14204), (343, 14210), (349, 14231), (355, 14255), (357, 14264), (366, 14303), (380, 14354), (381, 14357), (383, 14366), (384, 14369), (389, 14384), (414, 14474), (426, 14510), (450, 14618), (463, 14654), (479, 14750), (480, 14753), (491, 14807), (497, 14846), (506, 14894), (507, 14903), (509, 14927), (512, 14945), (526, 14996), (534, 15020), (536, 15038), (542, 15068),

Gene: KayPaulus_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for KayPaulus_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: Kaylissa_16 Start: 10731, Stop: 13046, Start Num: 11

Candidate Starts for Kaylissa_16:

(Start: 11 @10731 has 52 MA's), (35, 10887), (36, 10896), (50, 10977), (51, 10989), (58, 11037), (72, 11154), (84, 11235), (85, 11238), (88, 11268), (97, 11322), (101, 11352), (110, 11409), (113, 11433), (121, 11493), (198, 11718), (234, 11814), (257, 11886), (272, 11934), (289, 11988), (303, 12030), (313, 12069), (333, 12129), (425, 12408), (431, 12432), (438, 12465), (439, 12468), (450, 12519), (476, 12630), (479, 12651), (480, 12654), (488, 12687), (501, 12765), (505, 12786), (507, 12804), (518, 12864), (524, 12894), (536, 12945), (543, 12990), (549, 13035),

Gene: KeAlii_16 Start: 10771, Stop: 13071, Start Num: 11

Candidate Starts for KeAlii_16:

(Start: 11 @10771 has 52 MA's), (35, 10927), (36, 10936), (50, 11017), (58, 11077), (72, 11194), (77, 11245), (84, 11275), (85, 11278), (88, 11308), (97, 11362), (101, 11392), (105, 11425), (110, 11449), (113, 11473), (116, 11503), (121, 11533), (122, 11539), (129, 11563), (203, 11776), (234, 11857), (249, 11902), (257, 11929), (272, 11977), (303, 12073), (313, 12112), (316, 12121), (336, 12184), (337, 12187), (360, 12274), (369, 12310), (376, 12334), (425, 12451), (429, 12466), (445, 12532), (464, 12607), (482, 12703), (500, 12793), (504, 12823), (512, 12877), (518, 12898), (541, 13006),

Gene: Kevanna_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Kevanna_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: KillerTomato_12 Start: 7586, Stop: 9691, Start Num: 22

Candidate Starts for KillerTomato_12:

(Start: 22 @7586 has 124 MA's), (Start: 26 @7607 has 3 MA's), (52, 7784), (54, 7793), (57, 7817), (65, 7889), (69, 7913), (70, 7919), (85, 8012), (90, 8069), (94, 8090), (96, 8102), (98, 8111), (131, 8318), (144, 8336), (183, 8423), (214, 8492), (229, 8504), (241, 8552), (261, 8582), (271, 8597), (288, 8633), (299, 8660), (307, 8684), (315, 8705), (323, 8729), (325, 8735), (334, 8762), (342, 8795), (352, 8834), (359, 8861), (364, 8882), (367, 8897), (383, 8924), (384, 8927), (393, 8948), (397, 8960), (399, 8966), (412, 9014), (423, 9050), (435, 9098), (443, 9125), (446, 9146), (464, 9209), (468, 9233), (478, 9290), (500, 9395), (502, 9416), (505, 9428), (509, 9470), (513, 9491), (519, 9512), (543, 9641),

Gene: KingBob_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for KingBob_14:

(Start: 12 @9744 has 83 MA's), (15, 9753), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650), (176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: Kittykat_14 Start: 9756, Stop: 12314, Start Num: 12

Candidate Starts for Kittykat_14:

(8, 9735), (Start: 12 @9756 has 83 MA's), (21, 9804), (32, 9885), (49, 9981), (53, 10026), (55, 10044), (56, 10050), (75, 10191), (76, 10212), (86, 10257), (91, 10308), (92, 10311), (97, 10341), (103, 10395), (125, 10524), (139, 10602), (144, 10611), (146, 10617), (150, 10629), (158, 10662), (167, 10704), (176, 10749), (202, 10869), (203, 10872), (219, 10947), (232, 11010), (250, 11070), (255, 11088), (257, 11094), (261, 11106), (265, 11124), (281, 11175), (283, 11181), (290, 11205), (295, 11223), (299, 11238), (302, 11247), (311, 11292), (314, 11301), (321, 11322), (325, 11334), (326, 11337), (333, 11358), (334, 11361), (335, 11367), (337, 11373), (342, 11394), (343, 11400), (349, 11421), (355, 11445), (357, 11454), (360, 11466), (362, 11472), (366, 11493), (380, 11544), (381, 11547), (383, 11556), (384, 11559), (414, 11664), (417, 11676), (424, 11697), (441, 11766), (450, 11808), (453, 11820), (454, 11823), (462, 11841), (463, 11844), (479, 11940), (480, 11943), (491, 11997), (497, 12036), (501, 12054), (506, 12084), (507, 12093), (512, 12135), (542, 12255),

Gene: Kojax4_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Kojax4_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361),

(502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Korra_19 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Korra_19:

(8, 12551), (Start: 12 @12572 has 83 MA's), (21, 12620), (24, 12653), (32, 12701), (35, 12725), (37, 12737), (49, 12797), (54, 12845), (55, 12860), (56, 12866), (73, 12986), (76, 13028), (91, 13124), (92, 13127), (97, 13157), (103, 13211), (128, 13352), (131, 13373), (134, 13397), (139, 13418), (144, 13427), (158, 13478), (163, 13496), (202, 13682), (232, 13826), (243, 13859), (250, 13886), (255, 13904), (257, 13910), (264, 13934), (266, 13943), (281, 13991), (289, 14018), (290, 14021), (296, 14042), (299, 14054), (310, 14105), (315, 14120), (319, 14132), (322, 14141), (325, 14150), (334, 14177), (337, 14189), (339, 14198), (342, 14210), (343, 14216), (349, 14237), (355, 14261), (357, 14270), (366, 14309), (380, 14360), (381, 14363), (383, 14372), (384, 14375), (389, 14390), (414, 14480), (426, 14516), (450, 14624), (463, 14660), (479, 14756), (480, 14759), (491, 14813), (497, 14852), (506, 14900), (507, 14909), (509, 14933), (512, 14951), (526, 15002), (534, 15026), (542, 15074),

Gene: KyriosFaba_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for KyriosFaba_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: LadyAstra_15 Start: 8974, Stop: 11217, Start Num: 11

Candidate Starts for LadyAstra_15:

(Start: 11 @8974 has 52 MA's), (27, 9061), (43, 9163), (52, 9229), (67, 9334), (81, 9445), (83, 9451), (95, 9547), (102, 9589), (123, 9736), (128, 9754), (158, 9856), (216, 10012), (234, 10090), (253, 10138), (255, 10147), (261, 10165), (272, 10207), (275, 10216), (286, 10243), (296, 10273), (305, 10306), (336, 10408), (338, 10417), (341, 10429), (347, 10450), (348, 10453), (355, 10483), (382, 10591), (479, 10846), (483, 10858), (497, 10942), (500, 10948), (504, 10978),

Gene: Lakshmi_18 Start: 12636, Stop: 15197, Start Num: 12

Candidate Starts for Lakshmi_18:

(8, 12615), (Start: 12 @12636 has 83 MA's), (27, 12726), (32, 12765), (37, 12801), (49, 12861), (54, 12909), (55, 12924), (76, 13092), (86, 13137), (91, 13188), (92, 13191), (103, 13275), (134, 13461), (146, 13497), (150, 13509), (161, 13551), (182, 13662), (226, 13860), (250, 13953), (257, 13977), (258, 13980), (281, 14058), (283, 14064), (291, 14091), (299, 14121), (314, 14184), (319, 14199), (322, 14208), (323, 14211), (326, 14220), (334, 14244), (337, 14256), (338, 14262), (342, 14277), (343, 14283), (344, 14286), (350, 14307), (353, 14322), (357, 14337), (362, 14355), (363, 14361), (366, 14376), (369, 14385), (371, 14394), (380, 14427), (381, 14430), (384, 14442), (386, 14448), (390, 14460), (409, 14526), (412, 14541), (421, 14571), (424, 14580), (450, 14691), (463, 14727), (466, 14748), (479, 14823), (480, 14826), (491, 14880), (495, 14895), (497, 14919), (507, 14976), (509, 15000), (519, 15042), (526, 15069), (542, 15138),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 3

Candidate Starts for Laroye_67:

(Start: 3 @36530 has 7 MA's), (7, 36551), (13, 36581), (Start: 14 @36584 has 1 MA's), (31, 36689), (43, 36773), (45, 36782), (52, 36842), (79, 37052), (81, 37058), (82, 37061), (83, 37064), (93, 37151), (102, 37202), (107, 37244), (108, 37247), (119, 37331), (123, 37349), (160, 37499), (192, 37592), (195, 37601), (218, 37691), (242, 37787), (248, 37805), (252, 37817), (257, 37835), (258, 37838),

(262, 37850), (267, 37871), (271, 37883), (286, 37934), (313, 38027), (341, 38114), (351, 38150), (353, 38162), (356, 38171), (363, 38201), (366, 38216), (369, 38225), (388, 38294), (422, 38333), (452, 38459), (481, 38534), (496, 38609), (498, 38630), (504, 38663), (505, 38666), (509, 38708), (511, 38720), (517, 38741), (530, 38795), (546, 38897), (551, 38960), (555, 39071), (557, 39104), (559, 39158), (560, 39167), (564, 39260), (565, 39269), (567, 39368), (568, 39374), (570, 39404), (571, 39443), (573, 39530),

Gene: Lasagna_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Lasagna_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (73, 10131), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: LaviMo_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for LaviMo_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Leafy_12 Start: 7556, Stop: 9661, Start Num: 22

Candidate Starts for Leafy_12:

(Start: 22 @7556 has 124 MA's), (Start: 26 @7577 has 3 MA's), (52, 7754), (54, 7763), (57, 7787), (65, 7859), (69, 7883), (70, 7889), (85, 7982), (90, 8039), (94, 8060), (96, 8072), (98, 8081), (131, 8288), (144, 8306), (183, 8393), (214, 8462), (229, 8474), (241, 8522), (261, 8552), (271, 8567), (299, 8630), (307, 8654), (315, 8675), (323, 8699), (325, 8705), (334, 8732), (342, 8765), (352, 8804), (360, 8837), (364, 8852), (367, 8867), (383, 8894), (384, 8897), (397, 8930), (399, 8936), (412, 8984), (435, 9068), (443, 9095), (446, 9116), (464, 9179), (468, 9203), (478, 9260), (500, 9365), (502, 9386), (505, 9398), (509, 9440), (513, 9461), (519, 9482), (543, 9611),

Gene: Lego_16 Start: 10730, Stop: 13045, Start Num: 11

Candidate Starts for Lego_16:

(Start: 11 @10730 has 52 MA's), (35, 10886), (36, 10895), (50, 10976), (51, 10988), (58, 11036), (59, 11039), (63, 11081), (72, 11153), (84, 11234), (85, 11237), (88, 11267), (97, 11321), (101, 11351), (110, 11408), (113, 11432), (121, 11492), (198, 11717), (234, 11813), (254, 11876), (257, 11885), (272, 11933), (275, 11942), (279, 11954), (289, 11987), (303, 12029), (313, 12068), (333, 12128), (370, 12269), (395, 12344), (406, 12356), (422, 12398), (425, 12407), (431, 12431), (450, 12518), (476, 12629), (479, 12650), (480, 12653), (488, 12686), (501, 12764), (507, 12803), (518, 12863), (524, 12893), (536, 12944), (543, 12989), (549, 13034),

Gene: LemonPepper_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for LemonPepper_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Lennox_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Lennox_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (76, 10173), (91, 10269), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 3

Candidate Starts for LiSara_64:

(Start: 3 @36692 has 7 MA's), (7, 36713), (13, 36743), (Start: 14 @36746 has 1 MA's), (31, 36851), (43, 36935), (45, 36944), (52, 37004), (79, 37214), (81, 37220), (82, 37223), (83, 37226), (93, 37313), (102, 37364), (107, 37406), (108, 37409), (119, 37493), (123, 37511), (160, 37661), (192, 37754), (195, 37763), (218, 37853), (242, 37949), (252, 37979), (257, 37997), (258, 38000), (262, 38012), (267, 38033), (271, 38045), (286, 38096), (313, 38189), (341, 38276), (351, 38312), (353, 38324), (356, 38333), (363, 38363), (366, 38378), (369, 38387), (388, 38456), (422, 38495), (452, 38621), (481, 38696), (496, 38771), (498, 38792), (504, 38825), (505, 38828), (509, 38870), (511, 38882), (517, 38903), (530, 38957), (546, 39059), (551, 39122), (555, 39233), (557, 39266), (559, 39320), (560, 39329), (563, 39398), (564, 39422), (565, 39431), (567, 39530), (568, 39536), (570, 39566), (571, 39605), (573, 39692),

Gene: Liebe_15 Start: 9206, Stop: 11569, Start Num: 11

Candidate Starts for Liebe_15:

(Start: 11 @9206 has 52 MA's), (43, 9395), (52, 9461), (62, 9536), (70, 9602), (81, 9677), (82, 9680), (83, 9683), (93, 9770), (95, 9779), (102, 9821), (123, 9968), (128, 9986), (142, 10061), (153, 10094), (161, 10127), (201, 10268), (229, 10391), (230, 10400), (246, 10439), (251, 10457), (255, 10472), (272, 10532), (274, 10538), (276, 10544), (283, 10556), (284, 10559), (300, 10613), (304, 10625), (307, 10637), (310, 10652), (334, 10724), (338, 10742), (340, 10751), (344, 10766), (348, 10778), (352, 10796), (355, 10808), (436, 11030), (479, 11171), (480, 11174), (488, 11207), (490, 11222), (491, 11228), (497, 11267), (507, 11324), (513, 11366), (524, 11414),

Gene: LilStuart_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for LilStuart_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (76, 10173), (91, 10269), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384,

11520), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: Linayshia_19 Start: 13506, Stop: 15500, Start Num: 19

Candidate Starts for Linayshia_19:

(Start: 19 @13506 has 16 MA's), (25, 13545), (43, 13656), (48, 13671), (49, 13683), (62, 13797), (72, 13875), (75, 13899), (93, 14031), (102, 14082), (111, 14148), (127, 14244), (152, 14355), (193, 14481), (209, 14541), (213, 14565), (217, 14583), (231, 14616), (291, 14763), (304, 14781), (347, 14814), (351, 14829), (376, 14895), (447, 15054), (449, 15060), (450, 15066), (479, 15144), (484, 15159), (492, 15201), (503, 15267), (513, 15336), (543, 15474),

Gene: LionelHutz_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for LionelHutz_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Litotes_18 Start: 12597, Stop: 15152, Start Num: 12

Candidate Starts for Litotes_18:

(8, 12576), (Start: 12 @12597 has 83 MA's), (21, 12645), (32, 12726), (35, 12750), (49, 12822), (54, 12870), (55, 12885), (56, 12891), (76, 13053), (91, 13149), (92, 13152), (97, 13182), (116, 13320), (139, 13443), (158, 13503), (163, 13521), (166, 13536), (176, 13587), (226, 13818), (244, 13887), (250, 13911), (255, 13929), (257, 13935), (272, 13989), (276, 14001), (283, 14022), (290, 14046), (311, 14133), (319, 14157), (321, 14163), (322, 14166), (326, 14178), (333, 14199), (334, 14202), (335, 14208), (337, 14214), (341, 14232), (342, 14235), (343, 14241), (355, 14286), (357, 14295), (362, 14313), (366, 14334), (369, 14343), (371, 14352), (380, 14385), (381, 14388), (383, 14397), (384, 14400), (400, 14451), (450, 14649), (453, 14661), (462, 14682), (463, 14685), (479, 14781), (480, 14784), (491, 14838), (497, 14877), (507, 14934), (512, 14976), (526, 15024), (536, 15066), (542, 15096),

Gene: Livingwater_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Livingwater_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: Lizalica_16 Start: 10715, Stop: 13030, Start Num: 11

Candidate Starts for Lizalica_16:

(Start: 11 @10715 has 52 MA's), (35, 10871), (36, 10880), (50, 10961), (51, 10973), (58, 11021), (59, 11024), (63, 11066), (72, 11138), (84, 11219), (85, 11222), (88, 11252), (97, 11306), (101, 11336), (110, 11393), (113, 11417), (121, 11477), (198, 11702), (234, 11798), (257, 11870), (272, 11918), (289, 11972), (303, 12014), (313, 12053), (333, 12113), (370, 12254), (422, 12383), (425, 12392), (431, 12416), (446, 12485), (450, 12503), (476, 12614), (479, 12635), (480, 12638), (488, 12671), (501, 12749), (507, 12788), (518, 12848), (524, 12878), (536, 12929), (543, 12974), (549, 13019),

Gene: Loca_12 Start: 7559, Stop: 9664, Start Num: 22

Candidate Starts for Loca_12:

(Start: 22 @7559 has 124 MA's), (Start: 26 @7580 has 3 MA's), (52, 7757), (54, 7766), (57, 7790), (65, 7862), (69, 7886), (70, 7892), (85, 7985), (90, 8042), (94, 8063), (96, 8075), (98, 8084), (131, 8291), (144, 8309), (183, 8396), (214, 8465), (229, 8477), (241, 8525), (261, 8555), (271, 8570), (299, 8633), (315, 8678), (323, 8702), (325, 8708), (334, 8735), (342, 8768), (352, 8807), (364, 8855), (367, 8870), (383, 8897), (384, 8900), (397, 8933), (399, 8939), (412, 8987), (435, 9071), (443, 9098), (446, 9119), (464, 9182), (468, 9206), (478, 9263), (500, 9368), (502, 9389), (505, 9401), (509, 9443), (513, 9464), (519, 9485), (543, 9614),

Gene: Lola20_12 Start: 7538, Stop: 9646, Start Num: 22

Candidate Starts for Lola20_12:

(Start: 22 @7538 has 124 MA's), (Start: 26 @7559 has 3 MA's), (52, 7736), (54, 7745), (57, 7769), (65, 7841), (69, 7865), (70, 7871), (85, 7964), (90, 8021), (94, 8042), (96, 8054), (98, 8063), (131, 8270), (144, 8288), (183, 8375), (214, 8444), (229, 8456), (241, 8504), (261, 8534), (271, 8549), (288, 8585), (299, 8612), (315, 8657), (323, 8681), (325, 8687), (334, 8714), (342, 8747), (352, 8786), (359, 8813), (364, 8834), (367, 8849), (383, 8876), (384, 8879), (397, 8912), (399, 8918), (412, 8966), (423, 9002), (435, 9050), (443, 9077), (446, 9098), (464, 9161), (468, 9185), (478, 9242), (500, 9347), (502, 9368), (505, 9380), (509, 9422), (519, 9464), (543, 9596),

Gene: London_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for London_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (246, 11820), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660), (501, 12738), (507, 12777), (518, 12837), (536, 12927),

Gene: Lucy_14 Start: 9709, Stop: 12270, Start Num: 12

Candidate Starts for Lucy_14:

(8, 9688), (Start: 12 @9709 has 83 MA's), (21, 9757), (32, 9838), (35, 9862), (49, 9934), (54, 9982), (55, 9997), (56, 10003), (76, 10165), (91, 10261), (92, 10264), (97, 10294), (116, 10432), (131, 10510), (139, 10555), (144, 10564), (158, 10615), (163, 10633), (165, 10645), (170, 10669), (216, 10885), (235, 10975), (243, 10996), (250, 11023), (255, 11041), (257, 11047), (264, 11071), (266, 11080), (281, 11128), (289, 11155), (298, 11185), (310, 11242), (315, 11257), (319, 11269), (321, 11275), (322, 11278), (325, 11287), (334, 11314), (337, 11326), (339, 11335), (342, 11347), (343, 11353), (350, 11377), (355, 11398), (357, 11407), (361, 11422), (366, 11446), (371, 11464), (380, 11497), (381, 11500), (384, 11512), (406, 11587), (414, 11617), (426, 11653), (450, 11761), (453, 11773), (463, 11797), (479, 11893), (480, 11896), (491, 11950), (497, 11989), (501, 12007), (506, 12037), (507, 12046), (509, 12070), (527, 12145), (534, 12163), (542, 12211),

Gene: Lunatic_12 Start: 7531, Stop: 9636, Start Num: 22

Candidate Starts for Lunatic_12:

(Start: 22 @7531 has 124 MA's), (Start: 26 @7552 has 3 MA's), (52, 7729), (54, 7738), (57, 7762), (65, 7834), (69, 7858), (85, 7957), (90, 8014), (94, 8035), (96, 8047), (98, 8056), (131, 8263), (144, 8281), (183, 8368), (214, 8437), (229, 8449), (241, 8497), (261, 8527), (271, 8542), (306, 8626), (307, 8629), (315, 8650), (325, 8680), (334, 8707), (342, 8740), (352, 8779), (359, 8806), (360, 8812), (364, 8827), (367, 8842), (384, 8872), (393, 8893), (397, 8905), (399, 8911), (412, 8959), (423, 8995), (435, 9043), (443, 9070), (446, 9091), (464, 9154), (468, 9178), (478, 9235), (500, 9340), (502, 9361), (509, 9415), (513, 9436), (519, 9457),

Gene: Luxx_12 Start: 7564, Stop: 9669, Start Num: 22

Candidate Starts for Luxx_12:

(Start: 22 @7564 has 124 MA's), (Start: 26 @7585 has 3 MA's), (52, 7762), (54, 7771), (57, 7795), (65, 7867), (69, 7891), (70, 7897), (90, 8047), (94, 8068), (96, 8080), (98, 8089), (131, 8296), (144, 8314), (183, 8401), (214, 8470), (229, 8482), (241, 8530), (261, 8560), (271, 8575), (288, 8611), (299, 8638), (306, 8659), (315, 8683), (323, 8707), (325, 8713), (334, 8740), (342, 8773), (352, 8812), (359, 8839), (364, 8860), (367, 8875), (383, 8902), (384, 8905), (393, 8926), (397, 8938), (399, 8944), (412, 8992), (433, 9067), (435, 9076), (443, 9103), (446, 9124), (464, 9187), (468, 9211), (478, 9268), (500, 9373), (502, 9394), (505, 9406), (509, 9448), (513, 9469), (519, 9490),

Gene: MaGuCo_15 Start: 9140, Stop: 11503, Start Num: 11

Candidate Starts for MaGuCo_15:

(Start: 11 @9140 has 52 MA's), (43, 9329), (52, 9395), (62, 9470), (81, 9611), (82, 9614), (83, 9617), (93, 9704), (95, 9713), (102, 9755), (108, 9800), (123, 9902), (128, 9920), (153, 10028), (161, 10061), (201, 10202), (224, 10304), (229, 10325), (230, 10334), (246, 10373), (251, 10391), (254, 10403), (255, 10406), (272, 10466), (274, 10472), (276, 10478), (283, 10490), (284, 10493), (290, 10514), (300, 10547), (304, 10559), (307, 10571), (310, 10586), (334, 10658), (337, 10670), (338, 10676), (340, 10685), (344, 10700), (348, 10712), (352, 10730), (355, 10742), (436, 10964), (479, 11105), (480, 11108), (488, 11141), (491, 11162), (497, 11201), (507, 11258), (513, 11300), (524, 11348),

Gene: Madebyisha_14 Start: 7627, Stop: 9732, Start Num: 22

Candidate Starts for Madebyisha_14:

(Start: 22 @7627 has 124 MA's), (Start: 26 @7648 has 3 MA's), (52, 7825), (54, 7834), (57, 7858), (65, 7930), (69, 7954), (70, 7960), (90, 8110), (94, 8131), (96, 8143), (98, 8152), (131, 8359), (144, 8377), (183, 8464), (214, 8533), (229, 8545), (241, 8593), (261, 8623), (271, 8638), (299, 8701), (306, 8722), (315, 8746), (323, 8770), (325, 8776), (334, 8803), (342, 8836), (352, 8875), (359, 8902), (364, 8923), (367, 8938), (383, 8965), (384, 8968), (393, 8989), (397, 9001), (399, 9007), (412, 9055), (423, 9091), (433, 9130), (435, 9139), (443, 9166), (446, 9187), (464, 9250), (468, 9274), (478, 9331), (500, 9436), (502, 9457), (505, 9469), (509, 9511), (513, 9532), (519, 9553), (543, 9682),

Gene: Majesty_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Majesty_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Makoto_14 Start: 9718, Stop: 12279, Start Num: 12

Candidate Starts for Makoto_14:

(8, 9697), (Start: 12 @9718 has 83 MA's), (21, 9766), (32, 9847), (35, 9871), (49, 9943), (54, 9991), (55, 10006), (56, 10012), (76, 10174), (91, 10270), (97, 10303), (116, 10441), (131, 10519), (139, 10564), (144, 10573), (158, 10624), (163, 10642), (165, 10654), (170, 10678), (216, 10894), (243, 11005), (250, 11032), (255, 11050), (257, 11056), (264, 11080), (266, 11089), (281, 11137), (289, 11164), (298, 11194), (310, 11251), (315, 11266), (319, 11278), (321, 11284), (322, 11287), (325, 11296), (334, 11323), (337, 11335), (339, 11344), (342, 11356), (343, 11362), (350, 11386), (355, 11407), (357, 11416), (361, 11431), (366, 11455), (380, 11506), (381, 11509), (384, 11521), (406, 11596), (414, 11626), (426, 11662), (450, 11770), (453, 11782), (463, 11806), (479, 11902), (480, 11905), (488, 11938), (491, 11959), (501, 12016), (506, 12046), (507, 12055), (509, 12079), (527, 12154), (542, 12220),

Gene: MamaPearl_14 Start: 9752, Stop: 12301, Start Num: 12

Candidate Starts for MamaPearl_14:

(5, 9722), (Start: 12 @9752 has 83 MA's), (32, 9881), (37, 9917), (54, 10025), (55, 10040), (75, 10187), (76, 10208), (91, 10304), (104, 10394), (118, 10487), (139, 10598), (158, 10658), (161, 10667), (222, 10940), (232, 10994), (243, 11027), (248, 11048), (250, 11054), (255, 11072), (281, 11159), (299, 11222), (311, 11276), (314, 11285), (321, 11306), (325, 11318), (326, 11321), (334, 11345), (335, 11351), (337, 11357), (339, 11366), (342, 11378), (343, 11384), (349, 11405), (357, 11438), (361, 11453), (362, 11456), (366, 11477), (368, 11483), (371, 11495), (380, 11528), (381, 11531), (383, 11540), (384, 11543), (389, 11558), (412, 11642), (424, 11681), (450, 11792), (453, 11804), (466, 11849), (479, 11924), (480, 11927), (491, 11981), (506, 12068), (507, 12077), (509, 12101), (511, 12113), (526, 12170), (527, 12176), (542, 12242), (548, 12284),

Gene: ManAs_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for ManAs_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Maneater_12 Start: 7528, Stop: 9633, Start Num: 22

Candidate Starts for Maneater_12:

(Start: 22 @7528 has 124 MA's), (Start: 26 @7549 has 3 MA's), (52, 7726), (54, 7735), (57, 7759), (65, 7831), (69, 7855), (70, 7861), (90, 8011), (94, 8032), (96, 8044), (98, 8053), (131, 8260), (144, 8278), (183, 8365), (214, 8434), (229, 8446), (241, 8494), (261, 8524), (271, 8539), (288, 8575), (299, 8602), (306, 8623), (315, 8647), (323, 8671), (325, 8677), (334, 8704), (342, 8737), (352, 8776), (359, 8803), (364, 8824), (367, 8839), (383, 8866), (384, 8869), (393, 8890), (397, 8902), (399, 8908), (412, 8956), (433, 9031), (435, 9040), (443, 9067), (446, 9088), (464, 9151), (468, 9175), (478, 9232), (500, 9337), (502, 9358), (505, 9370), (509, 9412), (513, 9433), (519, 9454),

Gene: Maria1952_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Maria1952_14:

(Start: 12 @9744 has 83 MA's), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650), (176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: MasterPitts_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for MasterPitts_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (478, 9250), (500, 9355), (502, 9376), (505, 9388),

(509, 9430), (513, 9451), (519, 9472), (543, 9601),

Gene: Maureen_15 Start: 9206, Stop: 11569, Start Num: 11

Candidate Starts for Maureen_15:

(Start: 11 @9206 has 52 MA's), (43, 9395), (52, 9461), (62, 9536), (70, 9602), (81, 9677), (82, 9680), (83, 9683), (93, 9770), (95, 9779), (102, 9821), (123, 9968), (128, 9986), (142, 10061), (153, 10094), (161, 10127), (201, 10268), (229, 10391), (230, 10400), (246, 10439), (251, 10457), (255, 10472), (272, 10532), (274, 10538), (276, 10544), (283, 10556), (284, 10559), (300, 10613), (304, 10625), (307, 10637), (310, 10652), (334, 10724), (338, 10742), (340, 10751), (344, 10766), (348, 10778), (352, 10796), (355, 10808), (436, 11030), (479, 11171), (480, 11174), (488, 11207), (490, 11222), (491, 11228), (497, 11267), (507, 11324), (513, 11366), (524, 11414),

Gene: McShie_12 Start: 7529, Stop: 9634, Start Num: 22

Candidate Starts for McShie_12:

(Start: 22 @7529 has 124 MA's), (Start: 26 @7550 has 3 MA's), (52, 7727), (54, 7736), (57, 7760), (65, 7832), (69, 7856), (70, 7862), (85, 7955), (90, 8012), (94, 8033), (96, 8045), (98, 8054), (131, 8261), (144, 8279), (183, 8366), (214, 8435), (229, 8447), (241, 8495), (261, 8525), (271, 8540), (299, 8603), (306, 8624), (307, 8627), (325, 8678), (334, 8705), (342, 8738), (352, 8777), (359, 8804), (364, 8825), (367, 8840), (383, 8867), (393, 8891), (397, 8903), (399, 8909), (412, 8957), (435, 9041), (443, 9068), (446, 9089), (464, 9152), (468, 9176), (478, 9233), (500, 9338), (502, 9359), (505, 9371), (509, 9413), (513, 9434), (519, 9455), (543, 9584),

Gene: MeganNoll_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for MeganNoll_18:

(8, 12603), (Start: 12 @12624 has 83 MA's), (21, 12672), (24, 12705), (32, 12753), (35, 12777), (37, 12789), (49, 12849), (54, 12897), (55, 12912), (56, 12918), (73, 13038), (76, 13080), (91, 13176), (92, 13179), (97, 13209), (103, 13263), (104, 13266), (128, 13404), (131, 13425), (134, 13449), (139, 13470), (144, 13479), (158, 13530), (163, 13548), (202, 13734), (232, 13878), (243, 13911), (250, 13938), (255, 13956), (257, 13962), (264, 13986), (266, 13995), (281, 14043), (289, 14070), (290, 14073), (296, 14094), (298, 14100), (299, 14106), (310, 14157), (315, 14172), (319, 14184), (321, 14190), (322, 14193), (325, 14202), (334, 14229), (337, 14241), (339, 14250), (342, 14262), (343, 14268), (349, 14289), (357, 14322), (366, 14361), (380, 14412), (381, 14415), (383, 14424), (384, 14427), (389, 14442), (414, 14532), (426, 14568), (450, 14676), (463, 14712), (479, 14808), (480, 14811), (491, 14865), (497, 14904), (506, 14952), (507, 14961), (509, 14985), (512, 15003), (526, 15054), (534, 15078), (536, 15096), (542, 15126),

Gene: MelBee03_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for MelBee03_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: Miaurora_12 Start: 7648, Stop: 9753, Start Num: 22

Candidate Starts for Miaurora_12:

(Start: 22 @7648 has 124 MA's), (Start: 26 @7669 has 3 MA's), (52, 7846), (54, 7855), (57, 7879), (65, 7951), (69, 7975), (85, 8074), (90, 8131), (94, 8152), (96, 8164), (98, 8173), (131, 8380), (144, 8398), (183, 8485), (214, 8554), (229, 8566), (241, 8614), (261, 8644), (271, 8659), (297, 8713), (306, 8743), (307, 8746), (315, 8767), (325, 8797), (334, 8824), (342, 8857), (352, 8896), (359, 8923), (360, 8929), (364, 8944), (367, 8959), (383, 8986), (384, 8989), (393, 9010), (397, 9022), (399, 9028), (412, 9076),

(423, 9112), (435, 9160), (443, 9187), (446, 9208), (464, 9271), (468, 9295), (478, 9352), (500, 9457), (502, 9478), (509, 9532), (513, 9553), (519, 9574),

Gene: Milani_20 Start: 12168, Stop: 14459, Start Num: 19

Candidate Starts for Milani_20:

(Start: 19 @12168 has 16 MA's), (37, 12285), (43, 12318), (49, 12345), (72, 12537), (93, 12693), (102, 12744), (109, 12795), (112, 12816), (119, 12873), (131, 12930), (152, 13017), (158, 13044), (164, 13065), (169, 13095), (170, 13098), (210, 13212), (244, 13356), (276, 13464), (293, 13518), (328, 13629), (350, 13707), (355, 13728), (358, 13740), (363, 13761), (375, 13806), (416, 13872), (433, 13938), (442, 13974), (444, 13980), (449, 14007), (473, 14046), (479, 14091), (480, 14094), (483, 14103), (485, 14115), (487, 14124), (488, 14127), (507, 14241), (515, 14292), (517, 14298),

Gene: MiniMommy_15 Start: 8972, Stop: 11215, Start Num: 11

Candidate Starts for MiniMommy_15:

(Start: 11 @8972 has 52 MA's), (27, 9059), (43, 9161), (52, 9227), (67, 9332), (81, 9443), (83, 9449), (95, 9545), (102, 9587), (123, 9734), (128, 9752), (162, 9869), (174, 9896), (196, 9929), (207, 9965), (216, 10013), (225, 10052), (234, 10091), (246, 10115), (253, 10139), (255, 10148), (258, 10157), (261, 10166), (272, 10208), (286, 10244), (290, 10256), (304, 10301), (305, 10307), (311, 10331), (323, 10367), (330, 10385), (336, 10409), (338, 10418), (341, 10430), (347, 10451), (348, 10454), (355, 10484), (442, 10730), (479, 10847), (497, 10943), (500, 10949), (504, 10979),

Gene: Minima_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Minima_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: MirimarMandM_12 Start: 7615, Stop: 9720, Start Num: 22

Candidate Starts for MirimarMandM_12:

(Start: 22 @7615 has 124 MA's), (Start: 26 @7636 has 3 MA's), (52, 7813), (54, 7822), (57, 7846), (65, 7918), (69, 7942), (85, 8041), (90, 8098), (94, 8119), (96, 8131), (98, 8140), (131, 8347), (144, 8365), (183, 8452), (214, 8521), (229, 8533), (241, 8581), (261, 8611), (271, 8626), (297, 8680), (306, 8710), (307, 8713), (315, 8734), (325, 8764), (334, 8791), (342, 8824), (352, 8863), (359, 8890), (360, 8896), (364, 8911), (367, 8926), (384, 8956), (393, 8977), (397, 8989), (399, 8995), (412, 9043), (423, 9079), (435, 9127), (443, 9154), (446, 9175), (464, 9238), (468, 9262), (478, 9319), (500, 9424), (502, 9445), (505, 9457), (509, 9499), (513, 9520), (519, 9541),

Gene: Misaeng_18 Start: 12684, Stop: 15242, Start Num: 12

Candidate Starts for Misaeng_18:

(8, 12663), (Start: 12 @12684 has 83 MA's), (27, 12774), (32, 12813), (37, 12849), (55, 12972), (76, 13140), (86, 13185), (91, 13236), (92, 13239), (103, 13323), (139, 13530), (144, 13539), (150, 13557), (151, 13560), (161, 13599), (203, 13800), (214, 13851), (226, 13905), (250, 13998), (257, 14022), (277, 14091), (281, 14103), (283, 14109), (284, 14112), (291, 14136), (299, 14166), (305, 14187), (316, 14235), (321, 14250), (323, 14256), (326, 14265), (334, 14289), (337, 14301), (338, 14307), (342, 14322), (343, 14328), (344, 14331), (353, 14367), (355, 14373), (357, 14382), (362, 14400), (363, 14406), (366, 14421), (369, 14430), (374, 14448), (380, 14472), (381, 14475), (384, 14487), (390, 14505), (409, 14571), (412, 14586), (421, 14616), (424, 14625), (429, 14640), (439, 14685), (450, 14736), (463, 14772), (479, 14868), (480, 14871), (491, 14925), (497, 14964), (507, 15021), (509, 15045), (519, 15087), (526, 15114), (542, 15183),

Gene: MissSwiss_16 Start: 10713, Stop: 12947, Start Num: 11

Candidate Starts for MissSwiss_16:

(Start: 11 @10713 has 52 MA's), (35, 10869), (36, 10878), (41, 10905), (50, 10959), (51, 10971), (58, 11019), (72, 11136), (84, 11217), (85, 11220), (88, 11250), (101, 11334), (110, 11391), (113, 11415), (121, 11475), (135, 11544), (140, 11562), (173, 11613), (187, 11634), (196, 11655), (228, 11700), (254, 11796), (257, 11805), (272, 11853), (275, 11862), (303, 11949), (337, 12063), (360, 12150), (371, 12195), (376, 12210), (426, 12330), (429, 12342), (445, 12408), (453, 12450), (461, 12462), (465, 12486), (468, 12507), (471, 12516), (475, 12537), (482, 12579), (500, 12669), (504, 12699), (512, 12753), (541, 12882),

Gene: Moki_14 Start: 9720, Stop: 12287, Start Num: 12

Candidate Starts for Moki_14:

(8, 9699), (Start: 12 @9720 has 83 MA's), (21, 9768), (32, 9849), (35, 9873), (49, 9945), (54, 9993), (55, 10008), (56, 10014), (76, 10176), (90, 10269), (91, 10272), (92, 10275), (97, 10305), (104, 10362), (128, 10500), (131, 10521), (139, 10566), (150, 10593), (158, 10626), (163, 10644), (172, 10686), (182, 10743), (243, 11007), (250, 11034), (255, 11052), (257, 11058), (264, 11082), (270, 11103), (281, 11139), (289, 11166), (298, 11196), (299, 11202), (310, 11253), (321, 11286), (334, 11325), (335, 11331), (337, 11337), (339, 11346), (342, 11358), (343, 11364), (350, 11388), (355, 11409), (357, 11418), (366, 11457), (371, 11475), (380, 11508), (381, 11511), (384, 11523), (389, 11538), (405, 11589), (412, 11622), (417, 11640), (426, 11664), (435, 11706), (450, 11772), (453, 11784), (466, 11829), (479, 11904), (480, 11907), (491, 11961), (497, 12000), (502, 12027), (507, 12057), (508, 12069), (509, 12081), (510, 12090), (526, 12156), (536, 12198), (542, 12228),

Gene: Moss_16 Start: 10335, Stop: 12755, Start Num: 16

Candidate Starts for Moss_16:

(Start: 16 @10335 has 11 MA's), (28, 10422), (44, 10527), (48, 10539), (54, 10599), (68, 10710), (78, 10791), (98, 10917), (100, 10932), (108, 10986), (144, 11160), (167, 11244), (172, 11265), (180, 11307), (214, 11433), (222, 11454), (229, 11487), (245, 11544), (256, 11586), (261, 11601), (276, 11652), (287, 11688), (289, 11694), (322, 11796), (330, 11817), (340, 11859), (356, 11919), (357, 11925), (369, 11973), (406, 12069), (453, 12246), (455, 12258), (470, 12309), (485, 12390), (497, 12459), (504, 12495), (518, 12576), (522, 12591), (537, 12663), (540, 12687),

Gene: MrGloopy_18 Start: 12558, Stop: 15119, Start Num: 12

Candidate Starts for MrGloopy_18:

(8, 12537), (Start: 12 @12558 has 83 MA's), (21, 12606), (24, 12639), (32, 12687), (35, 12711), (37, 12723), (49, 12783), (54, 12831), (55, 12846), (56, 12852), (73, 12972), (76, 13014), (91, 13110), (92, 13113), (97, 13143), (103, 13197), (128, 13338), (131, 13359), (134, 13383), (139, 13404), (144, 13413), (158, 13464), (163, 13482), (202, 13668), (232, 13812), (243, 13845), (250, 13872), (255, 13890), (257, 13896), (264, 13920), (266, 13929), (281, 13977), (289, 14004), (298, 14034), (299, 14040), (310, 14091), (315, 14106), (319, 14118), (321, 14124), (322, 14127), (325, 14136), (334, 14163), (337, 14175), (339, 14184), (342, 14196), (343, 14202), (349, 14223), (357, 14256), (366, 14295), (380, 14346), (381, 14349), (383, 14358), (384, 14361), (389, 14376), (414, 14466), (426, 14502), (450, 14610), (463, 14646), (479, 14742), (480, 14745), (491, 14799), (497, 14838), (506, 14886), (507, 14895), (509, 14919), (512, 14937), (526, 14988), (534, 15012), (536, 15030), (542, 15060),

Gene: MrGreen_12 Start: 7553, Stop: 9658, Start Num: 22

Candidate Starts for MrGreen_12:

(Start: 22 @7553 has 124 MA's), (Start: 26 @7574 has 3 MA's), (52, 7751), (54, 7760), (57, 7784), (65, 7856), (69, 7880), (70, 7886), (85, 7979), (90, 8036), (94, 8057), (96, 8069), (98, 8078), (131, 8285), (144, 8303), (183, 8390), (214, 8459), (229, 8471), (241, 8519), (261, 8549), (271, 8564), (299, 8627), (307, 8651), (315, 8672), (323, 8696), (325, 8702), (334, 8729), (342, 8762), (352, 8801), (360, 8834),

(364, 8849), (367, 8864), (383, 8891), (397, 8927), (399, 8933), (412, 8981), (435, 9065), (443, 9092), (446, 9113), (464, 9176), (468, 9200), (478, 9257), (500, 9362), (502, 9383), (505, 9395), (509, 9437), (513, 9458), (519, 9479), (543, 9608),

Gene: Mudpuppy_16 Start: 10729, Stop: 13044, Start Num: 11

Candidate Starts for Mudpuppy_16:

(Start: 11 @10729 has 52 MA's), (35, 10885), (36, 10894), (50, 10975), (51, 10987), (58, 11035), (59, 11038), (63, 11080), (72, 11152), (84, 11233), (85, 11236), (88, 11266), (97, 11320), (101, 11350), (110, 11407), (113, 11431), (121, 11491), (198, 11716), (234, 11812), (254, 11875), (257, 11884), (272, 11932), (279, 11953), (289, 11986), (303, 12028), (313, 12067), (333, 12127), (370, 12268), (422, 12397), (425, 12406), (431, 12430), (438, 12463), (446, 12499), (450, 12517), (476, 12628), (479, 12649), (480, 12652), (488, 12685), (501, 12763), (507, 12802), (518, 12862), (524, 12892), (536, 12943), (543, 12988), (549, 13033),

Gene: Myram_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Myram_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Mysterium_16 Start: 10336, Stop: 12756, Start Num: 16

Candidate Starts for Mysterium_16:

(Start: 16 @10336 has 11 MA's), (28, 10423), (44, 10528), (48, 10540), (54, 10600), (68, 10711), (78, 10792), (98, 10918), (100, 10933), (108, 10987), (144, 11161), (167, 11245), (172, 11266), (180, 11308), (214, 11434), (222, 11455), (229, 11488), (245, 11545), (256, 11587), (261, 11602), (276, 11653), (287, 11689), (289, 11695), (322, 11797), (330, 11818), (340, 11860), (356, 11920), (357, 11926), (369, 11974), (406, 12070), (448, 12226), (453, 12247), (455, 12259), (470, 12310), (497, 12460), (504, 12496), (518, 12577), (537, 12664), (540, 12688),

Gene: Naby_12 Start: 7240, Stop: 9339, Start Num: 22

Candidate Starts for Naby_12:

(Start: 22 @7240 has 124 MA's), (24, 7255), (Start: 26 @7261 has 3 MA's), (34, 7321), (44, 7375), (52, 7438), (54, 7447), (57, 7471), (65, 7543), (69, 7567), (85, 7666), (90, 7723), (96, 7756), (98, 7765), (156, 8032), (183, 8077), (227, 8149), (232, 8179), (261, 8236), (271, 8251), (301, 8320), (317, 8365), (323, 8383), (325, 8389), (342, 8449), (343, 8455), (348, 8470), (352, 8488), (359, 8515), (378, 8557), (393, 8602), (399, 8620), (407, 8647), (432, 8734), (435, 8752), (443, 8779), (451, 8821), (464, 8863), (465, 8866), (468, 8887), (489, 8998), (502, 9070), (505, 9082), (508, 9112), (509, 9124), (513, 9145), (520, 9169), (539, 9253), (543, 9289),

Gene: Namsahir_12 Start: 7603, Stop: 9708, Start Num: 22

Candidate Starts for Namsahir_12:

(Start: 22 @7603 has 124 MA's), (Start: 26 @7624 has 3 MA's), (52, 7801), (54, 7810), (57, 7834), (65, 7906), (69, 7930), (85, 8029), (94, 8107), (96, 8119), (98, 8128), (131, 8335), (144, 8353), (183, 8440), (214, 8509), (229, 8521), (241, 8569), (261, 8599), (271, 8614), (297, 8668), (306, 8698), (307, 8701), (315, 8722), (325, 8752), (334, 8779), (342, 8812), (352, 8851), (359, 8878), (360, 8884), (364, 8899), (367, 8914), (383, 8941), (384, 8944), (393, 8965), (397, 8977), (399, 8983), (412, 9031), (423, 9067), (435, 9115), (443, 9142), (446, 9163), (464, 9226), (468, 9250), (478, 9307), (500, 9412), (502, 9433), (509, 9487), (513, 9508), (519, 9529),

Gene: Nancia_14 Start: 9717, Stop: 12278, Start Num: 12

Candidate Starts for Nancia_14:

(8, 9696), (Start: 12 @9717 has 83 MA's), (21, 9765), (32, 9846), (35, 9870), (49, 9942), (54, 9990), (55, 10005), (56, 10011), (73, 10131), (76, 10173), (91, 10269), (92, 10272), (97, 10302), (116, 10440), (131, 10518), (139, 10563), (144, 10572), (158, 10623), (163, 10641), (165, 10653), (170, 10677), (216, 10893), (235, 10983), (243, 11004), (250, 11031), (255, 11049), (257, 11055), (264, 11079), (266, 11088), (281, 11136), (289, 11163), (298, 11193), (310, 11250), (315, 11265), (319, 11277), (321, 11283), (322, 11286), (325, 11295), (334, 11322), (337, 11334), (339, 11343), (342, 11355), (343, 11361), (350, 11385), (355, 11406), (357, 11415), (361, 11430), (366, 11454), (380, 11505), (381, 11508), (384, 11520), (406, 11595), (414, 11625), (426, 11661), (450, 11769), (453, 11781), (463, 11805), (479, 11901), (480, 11904), (488, 11937), (491, 11958), (497, 11997), (501, 12015), (506, 12045), (507, 12054), (509, 12078), (527, 12153), (542, 12219),

Gene: NeumannU_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for NeumannU_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Neuville_17 Start: 9567, Stop: 11855, Start Num: 9

Candidate Starts for Neuville_17:

(9, 9567), (10, 9570), (29, 9669), (52, 9828), (81, 10044), (102, 10188), (117, 10299), (123, 10335), (132, 10377), (165, 10515), (180, 10545), (181, 10548), (189, 10566), (202, 10608), (221, 10692), (227, 10716), (242, 10764), (255, 10806), (257, 10812), (269, 10854), (274, 10872), (290, 10914), (294, 10926), (300, 10947), (306, 10968), (308, 10977), (309, 10983), (315, 11001), (316, 11004), (326, 11034), (330, 11043), (348, 11112), (354, 11139), (355, 11142), (371, 11208), (377, 11229), (383, 11253), (413, 11277), (425, 11316), (441, 11385), (444, 11394), (449, 11421), (479, 11505), (480, 11508), (497, 11601), (500, 11607), (507, 11658), (509, 11682), (510, 11691), (523, 11736), (545, 11850),

Gene: Niffler_12 Start: 7621, Stop: 9726, Start Num: 22

Candidate Starts for Niffler_12:

(Start: 22 @7621 has 124 MA's), (Start: 26 @7642 has 3 MA's), (52, 7819), (54, 7828), (57, 7852), (65, 7924), (69, 7948), (85, 8047), (90, 8104), (94, 8125), (96, 8137), (98, 8146), (131, 8353), (144, 8371), (183, 8458), (214, 8527), (229, 8539), (241, 8587), (261, 8617), (271, 8632), (306, 8716), (307, 8719), (315, 8740), (325, 8770), (334, 8797), (342, 8830), (352, 8869), (359, 8896), (360, 8902), (364, 8917), (367, 8932), (384, 8962), (393, 8983), (397, 8995), (399, 9001), (412, 9049), (423, 9085), (435, 9133), (443, 9160), (446, 9181), (464, 9244), (468, 9268), (478, 9325), (500, 9430), (502, 9451), (509, 9505), (513, 9526), (519, 9547),

Gene: Niobe_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for Niobe_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (246, 11820), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660), (501, 12738), (507, 12777), (518, 12837), (536, 12927),

Gene: Nitro_16 Start: 10728, Stop: 13052, Start Num: 11

Candidate Starts for Nitro_16:

(Start: 11 @10728 has 52 MA's), (33, 10875), (35, 10884), (42, 10926), (50, 10974), (58, 11034), (63, 11079), (72, 11151), (79, 11211), (85, 11235), (88, 11265), (97, 11319), (101, 11349), (110, 11406), (113, 11430), (121, 11490), (122, 11496), (144, 11595), (197, 11712), (234, 11811), (257, 11883), (272, 11931), (303, 12027), (313, 12066), (319, 12084), (333, 12126), (337, 12141), (358, 12219), (420, 12390), (425, 12405), (438, 12462), (446, 12498), (450, 12516), (479, 12648), (480, 12651), (488, 12684), (501, 12762), (507, 12801), (518, 12861), (536, 12951), (543, 12996), (549, 13041),

Gene: Nobel_12 Start: 7648, Stop: 9753, Start Num: 22

Candidate Starts for Nobel_12:

(Start: 22 @7648 has 124 MA's), (Start: 26 @7669 has 3 MA's), (52, 7846), (54, 7855), (57, 7879), (65, 7951), (69, 7975), (85, 8074), (90, 8131), (94, 8152), (96, 8164), (98, 8173), (131, 8380), (144, 8398), (183, 8485), (214, 8554), (229, 8566), (241, 8614), (261, 8644), (271, 8659), (306, 8743), (307, 8746), (315, 8767), (325, 8797), (334, 8824), (342, 8857), (352, 8896), (359, 8923), (360, 8929), (364, 8944), (367, 8959), (384, 8989), (393, 9010), (397, 9022), (399, 9028), (412, 9076), (423, 9112), (435, 9160), (443, 9187), (446, 9208), (464, 9271), (468, 9295), (478, 9352), (500, 9457), (502, 9478), (509, 9532), (513, 9553), (519, 9574),

Gene: Noelani_12 Start: 7514, Stop: 9619, Start Num: 22

Candidate Starts for Noelani_12:

(Start: 22 @7514 has 124 MA's), (Start: 26 @7535 has 3 MA's), (51, 7703), (52, 7712), (57, 7745), (65, 7817), (69, 7841), (90, 7997), (94, 8018), (98, 8039), (131, 8246), (144, 8264), (183, 8351), (214, 8420), (241, 8480), (261, 8510), (271, 8525), (288, 8561), (299, 8588), (306, 8609), (315, 8633), (323, 8657), (325, 8663), (334, 8690), (352, 8762), (359, 8789), (364, 8810), (367, 8825), (383, 8852), (384, 8855), (393, 8876), (397, 8888), (399, 8894), (412, 8942), (433, 9017), (435, 9026), (443, 9053), (446, 9074), (464, 9137), (468, 9161), (474, 9185), (478, 9218), (489, 9272), (502, 9344), (505, 9356), (509, 9398), (513, 9419), (519, 9440), (535, 9518), (543, 9569),

Gene: Nubia_18 Start: 12596, Stop: 15157, Start Num: 12

Candidate Starts for Nubia_18:

(8, 12575), (Start: 12 @12596 has 83 MA's), (27, 12686), (32, 12725), (37, 12761), (49, 12821), (54, 12869), (55, 12884), (76, 13052), (86, 13097), (91, 13148), (92, 13151), (103, 13235), (134, 13421), (146, 13457), (150, 13469), (161, 13511), (226, 13820), (250, 13913), (255, 13931), (257, 13937), (281, 14018), (283, 14024), (291, 14051), (299, 14081), (314, 14144), (319, 14159), (321, 14165), (322, 14168), (326, 14180), (334, 14204), (337, 14216), (338, 14222), (342, 14237), (343, 14243), (344, 14246), (350, 14267), (353, 14282), (355, 14288), (357, 14297), (362, 14315), (363, 14321), (366, 14336), (369, 14345), (371, 14354), (380, 14387), (381, 14390), (384, 14402), (386, 14408), (390, 14420), (405, 14468), (409, 14486), (412, 14501), (421, 14531), (424, 14540), (439, 14600), (450, 14651), (463, 14687), (466, 14708), (479, 14783), (480, 14786), (491, 14840), (497, 14879), (507, 14936), (509, 14960), (519, 15002), (526, 15029), (542, 15098),

Gene: OMalley_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for OMalley_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (53, 10008), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109), (270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: Oaklynn_12 Start: 7555, Stop: 9639, Start Num: 26

Candidate Starts for Oaklynn_12:

(Start: 22 @7534 has 124 MA's), (Start: 26 @7555 has 3 MA's), (52, 7732), (54, 7741), (57, 7765), (65, 7837), (69, 7861), (70, 7867), (90, 8017), (94, 8038), (96, 8050), (98, 8059), (131, 8266), (144, 8284), (183, 8371), (214, 8440), (229, 8452), (241, 8500), (261, 8530), (271, 8545), (299, 8608), (306, 8629), (307, 8632), (325, 8683), (334, 8710), (342, 8743), (352, 8782), (359, 8809), (364, 8830), (367, 8845), (383, 8872), (393, 8896), (397, 8908), (399, 8914), (412, 8962), (435, 9046), (443, 9073), (446, 9094), (464, 9157), (468, 9181), (474, 9205), (477, 9226), (500, 9343), (502, 9364), (505, 9376), (509, 9418), (513, 9439), (519, 9460), (543, 9589),

Gene: ObiToo_16 Start: 10917, Stop: 13223, Start Num: 11

Candidate Starts for ObiToo_16:

(Start: 11 @10917 has 52 MA's), (34, 11070), (35, 11073), (36, 11082), (58, 11223), (72, 11340), (85, 11424), (88, 11454), (97, 11508), (110, 11595), (113, 11619), (121, 11679), (122, 11685), (134, 11751), (197, 11901), (198, 11904), (254, 12063), (257, 12072), (272, 12120), (289, 12174), (303, 12216), (313, 12255), (333, 12315), (337, 12330), (358, 12408), (370, 12456), (395, 12531), (406, 12543), (422, 12585), (425, 12594), (450, 12705), (479, 12837), (480, 12840), (501, 12951), (507, 12990), (516, 13044), (522, 13065), (524, 13080), (541, 13158),

Gene: Octopus_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Octopus_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Olympi_20 Start: 13480, Stop: 15465, Start Num: 19

Candidate Starts for Olympi_20:

(1, 13381), (Start: 19 @13480 has 16 MA's), (43, 13630), (48, 13645), (49, 13657), (72, 13849), (75, 13873), (82, 13915), (93, 14005), (102, 14056), (111, 14122), (123, 14203), (141, 14293), (147, 14314), (152, 14329), (193, 14455), (210, 14524), (217, 14557), (304, 14755), (345, 14782), (350, 14800), (371, 14854), (384, 14902), (388, 14914), (390, 14920), (431, 14986), (433, 14998), (434, 15001), (492, 15175), (497, 15211), (503, 15241), (510, 15301), (543, 15439),

Gene: Otwor_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Otwor_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: OurGirlNessie_14 Start: 9709, Stop: 12270, Start Num: 12

Candidate Starts for OurGirlNessie_14:

(8, 9688), (Start: 12 @9709 has 83 MA's), (21, 9757), (32, 9838), (35, 9862), (49, 9934), (54, 9982), (55, 9997), (56, 10003), (76, 10165), (91, 10261), (97, 10294), (116, 10432), (131, 10510), (134, 10534), (139, 10555), (144, 10564), (158, 10615), (163, 10633), (165, 10645), (170, 10669), (216,

10885), (235, 10975), (243, 10996), (250, 11023), (255, 11041), (257, 11047), (264, 11071), (266, 11080), (281, 11128), (289, 11155), (298, 11185), (310, 11242), (315, 11257), (319, 11269), (321, 11275), (322, 11278), (325, 11287), (334, 11314), (337, 11326), (339, 11335), (342, 11347), (343, 11353), (350, 11377), (355, 11398), (357, 11407), (361, 11422), (366, 11446), (371, 11464), (380, 11497), (381, 11500), (384, 11512), (406, 11587), (414, 11617), (426, 11653), (431, 11674), (450, 11761), (453, 11773), (462, 11794), (463, 11797), (479, 11893), (480, 11896), (488, 11929), (491, 11950), (497, 11989), (501, 12007), (506, 12037), (507, 12046), (527, 12145), (542, 12211),

Gene: Owens_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Owens_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Oxynfrius_18 Start: 12609, Stop: 15170, Start Num: 12

Candidate Starts for Oxynfrius_18:

(8, 12588), (Start: 12 @12609 has 83 MA's), (27, 12699), (32, 12738), (37, 12774), (49, 12834), (54, 12882), (55, 12897), (76, 13065), (86, 13110), (91, 13161), (92, 13164), (103, 13248), (134, 13434), (146, 13470), (150, 13482), (161, 13524), (182, 13635), (226, 13833), (250, 13926), (257, 13950), (258, 13953), (281, 14031), (283, 14037), (291, 14064), (299, 14094), (314, 14157), (319, 14172), (322, 14181), (323, 14184), (326, 14193), (334, 14217), (337, 14229), (338, 14235), (342, 14250), (343, 14256), (344, 14259), (350, 14280), (353, 14295), (357, 14310), (362, 14328), (363, 14334), (366, 14349), (369, 14358), (371, 14367), (380, 14400), (381, 14403), (384, 14415), (386, 14421), (390, 14433), (409, 14499), (412, 14514), (421, 14544), (424, 14553), (450, 14664), (463, 14700), (466, 14721), (479, 14796), (480, 14799), (491, 14853), (497, 14892), (507, 14949), (509, 14973), (519, 15015), (526, 15042), (542, 15111),

Gene: PaoPu_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for PaoPu_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: PartyCup_18 Start: 12644, Stop: 15199, Start Num: 12

Candidate Starts for PartyCup_18:

(8, 12623), (Start: 12 @12644 has 83 MA's), (21, 12692), (32, 12773), (35, 12797), (49, 12869), (54, 12917), (55, 12932), (56, 12938), (76, 13100), (86, 13145), (91, 13196), (92, 13199), (97, 13229), (116, 13367), (139, 13490), (158, 13550), (163, 13568), (166, 13583), (176, 13634), (226, 13865), (244, 13934), (250, 13958), (255, 13976), (257, 13982), (272, 14036), (276, 14048), (283, 14069), (290, 14093), (311, 14180), (319, 14204), (321, 14210), (322, 14213), (326, 14225), (333, 14246), (334, 14249), (335, 14255), (337, 14261), (341, 14279), (342, 14282), (343, 14288), (355, 14333), (357, 14342), (362, 14360), (366, 14381), (369, 14390), (371, 14399), (380, 14432), (381, 14435), (383, 14444), (384, 14447), (400, 14498), (426, 14588), (450, 14696), (453, 14708), (462, 14729), (463, 14732), (479, 14828), (480, 14831), (491, 14885), (497, 14924), (507, 14981), (512, 15023), (526, 15071), (536, 15113), (542, 15143),

Gene: PermaG_20 Start: 13551, Stop: 15539, Start Num: 19

Candidate Starts for PermaG_20:

(Start: 19 @13551 has 16 MA's), (25, 13590), (43, 13701), (48, 13716), (49, 13728), (72, 13920), (75, 13944), (82, 13986), (93, 14076), (95, 14085), (102, 14127), (111, 14193), (123, 14274), (127, 14289), (131, 14313), (147, 14385), (152, 14400), (180, 14502), (193, 14526), (210, 14595), (217, 14628), (239, 14694), (304, 14826), (345, 14853), (371, 14925), (380, 14958), (388, 14985), (390, 14991), (422, 15024), (492, 15246), (497, 15282), (503, 15312), (510, 15372), (543, 15513),

Gene: Phives_17 Start: 11806, Stop: 14130, Start Num: 11

Candidate Starts for Phives_17:

(Start: 11 @11806 has 52 MA's), (35, 11962), (36, 11971), (50, 12052), (58, 12112), (63, 12157), (72, 12229), (79, 12289), (84, 12310), (85, 12313), (88, 12343), (97, 12397), (101, 12427), (110, 12484), (113, 12508), (121, 12568), (122, 12574), (198, 12793), (246, 12922), (254, 12952), (257, 12961), (272, 13009), (279, 13030), (289, 13063), (303, 13105), (313, 13144), (333, 13204), (337, 13219), (358, 13297), (372, 13354), (416, 13453), (419, 13465), (422, 13474), (431, 13507), (438, 13540), (439, 13543), (450, 13594), (479, 13726), (480, 13729), (501, 13840), (507, 13879), (518, 13939), (529, 13990), (536, 14029),

Gene: Picnic_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Picnic_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: PinkFriday_14 Start: 9750, Stop: 12308, Start Num: 12

Candidate Starts for PinkFriday_14:

(Start: 12 @9750 has 83 MA's), (15, 9759), (32, 9879), (54, 10023), (55, 10038), (76, 10206), (91, 10302), (99, 10347), (104, 10392), (134, 10575), (139, 10596), (144, 10605), (146, 10611), (150, 10623), (158, 10656), (176, 10743), (243, 11037), (248, 11058), (250, 11064), (255, 11082), (257, 11088), (264, 11112), (281, 11169), (289, 11196), (298, 11226), (299, 11232), (310, 11283), (315, 11298), (319, 11310), (322, 11319), (325, 11328), (334, 11355), (337, 11367), (339, 11376), (342, 11388), (343, 11394), (357, 11448), (362, 11466), (365, 11484), (366, 11487), (369, 11496), (371, 11505), (375, 11517), (380, 11538), (381, 11541), (384, 11553), (389, 11568), (412, 11652), (414, 11658), (426, 11694), (439, 11751), (450, 11802), (453, 11814), (466, 11859), (479, 11934), (480, 11937), (487, 11967), (488, 11970), (497, 12030), (501, 12048), (506, 12078), (507, 12087), (509, 12111), (511, 12123), (536, 12219), (542, 12249),

Gene: PitaDog_14 Start: 9708, Stop: 12269, Start Num: 12

Candidate Starts for PitaDog_14:

(8, 9687), (Start: 12 @9708 has 83 MA's), (21, 9756), (32, 9837), (35, 9861), (49, 9933), (54, 9981), (55, 9996), (56, 10002), (76, 10164), (91, 10260), (97, 10293), (116, 10431), (131, 10509), (139, 10554), (144, 10563), (158, 10614), (163, 10632), (170, 10668), (216, 10884), (235, 10974), (243, 10995), (250, 11022), (255, 11040), (257, 11046), (264, 11070), (266, 11079), (281, 11127), (289, 11154), (298, 11184), (310, 11241), (315, 11256), (319, 11268), (321, 11274), (322, 11277), (325, 11286), (334, 11313), (337, 11325), (339, 11334), (342, 11346), (343, 11352), (350, 11376), (355, 11397), (357, 11406), (361, 11421), (366, 11445), (371, 11463), (380, 11496), (381, 11499), (384, 11511), (414, 11616), (426, 11652), (450, 11760), (453, 11772), (463, 11796), (479, 11892), (480, 11895), (488, 11928), (491, 11949), (497, 11988), (501, 12006), (506, 12036), (507, 12045), (509,

12069), (527, 12144), (542, 12210),

Gene: Pixelle_16 Start: 10749, Stop: 13073, Start Num: 11

Candidate Starts for Pixelle_16:

(Start: 11 @10749 has 52 MA's), (35, 10905), (36, 10914), (50, 10995), (58, 11055), (63, 11100), (72, 11172), (84, 11253), (85, 11256), (88, 11286), (97, 11340), (101, 11370), (110, 11427), (113, 11451), (120, 11505), (121, 11511), (122, 11517), (198, 11736), (257, 11904), (272, 11952), (279, 11973), (289, 12006), (303, 12048), (313, 12087), (333, 12147), (337, 12162), (355, 12228), (387, 12351), (422, 12417), (425, 12426), (438, 12483), (439, 12486), (450, 12537), (479, 12669), (480, 12672), (501, 12783), (507, 12822), (509, 12846), (536, 12972),

Gene: PoRanda_12 Start: 7615, Stop: 9720, Start Num: 22

Candidate Starts for PoRanda_12:

(Start: 22 @7615 has 124 MA's), (Start: 26 @7636 has 3 MA's), (52, 7813), (54, 7822), (57, 7846), (65, 7918), (69, 7942), (85, 8041), (90, 8098), (94, 8119), (96, 8131), (98, 8140), (131, 8347), (144, 8365), (183, 8452), (214, 8521), (229, 8533), (241, 8581), (261, 8611), (271, 8626), (297, 8680), (306, 8710), (307, 8713), (315, 8734), (325, 8764), (334, 8791), (342, 8824), (352, 8863), (359, 8890), (360, 8896), (364, 8911), (367, 8926), (384, 8956), (393, 8977), (397, 8989), (399, 8995), (412, 9043), (423, 9079), (435, 9127), (443, 9154), (446, 9175), (464, 9238), (468, 9262), (478, 9319), (500, 9424), (502, 9445), (505, 9457), (509, 9499), (513, 9520), (519, 9541),

Gene: Pondwater_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Pondwater_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Potatoes_18 Start: 12619, Stop: 15180, Start Num: 12

Candidate Starts for Potatoes_18:

(8, 12598), (Start: 12 @12619 has 83 MA's), (21, 12667), (24, 12700), (32, 12748), (35, 12772), (37, 12784), (49, 12844), (54, 12892), (55, 12907), (56, 12913), (73, 13033), (76, 13075), (90, 13168), (91, 13171), (92, 13174), (97, 13204), (103, 13258), (128, 13399), (131, 13420), (134, 13444), (139, 13465), (144, 13474), (158, 13525), (163, 13543), (168, 13567), (202, 13729), (232, 13873), (243, 13906), (250, 13933), (255, 13951), (257, 13957), (264, 13981), (266, 13990), (281, 14038), (289, 14065), (296, 14089), (298, 14095), (299, 14101), (310, 14152), (315, 14167), (319, 14179), (321, 14185), (322, 14188), (325, 14197), (334, 14224), (337, 14236), (339, 14245), (342, 14257), (343, 14263), (349, 14284), (357, 14317), (366, 14356), (380, 14407), (381, 14410), (383, 14419), (384, 14422), (389, 14437), (412, 14521), (414, 14527), (426, 14563), (450, 14671), (453, 14683), (463, 14707), (479, 14803), (480, 14806), (491, 14860), (497, 14899), (506, 14947), (507, 14956), (509, 14980), (512, 14998), (526, 15049), (534, 15073), (536, 15091), (542, 15121),

Gene: Powerpuff_16 Start: 10781, Stop: 13096, Start Num: 11

Candidate Starts for Powerpuff_16:

(Start: 11 @10781 has 52 MA's), (35, 10937), (36, 10946), (50, 11027), (51, 11039), (58, 11087), (59, 11090), (63, 11132), (72, 11204), (84, 11285), (85, 11288), (88, 11318), (97, 11372), (101, 11402), (110, 11459), (113, 11483), (121, 11543), (198, 11768), (234, 11864), (254, 11927), (257, 11936), (272, 11984), (275, 11993), (279, 12005), (289, 12038), (303, 12080), (313, 12119), (333, 12179), (370, 12320), (395, 12395), (406, 12407), (422, 12449), (425, 12458), (431, 12482), (446, 12551), (450, 12569), (476, 12680), (479, 12701), (480, 12704), (488, 12737), (501, 12815), (507, 12854),

(518, 12914), (524, 12944), (536, 12995), (543, 13040), (549, 13085),

Gene: Preamble_14 Start: 9721, Stop: 12279, Start Num: 12

Candidate Starts for Preamble_14:

(8, 9700), (Start: 12 @9721 has 83 MA's), (21, 9769), (32, 9850), (49, 9946), (53, 9991), (55, 10009), (56, 10015), (75, 10156), (76, 10177), (86, 10222), (91, 10273), (92, 10276), (97, 10306), (125, 10489), (139, 10567), (144, 10576), (146, 10582), (150, 10594), (158, 10627), (167, 10669), (176, 10714), (202, 10834), (203, 10837), (232, 10975), (250, 11035), (255, 11053), (257, 11059), (265, 11089), (281, 11140), (283, 11146), (295, 11188), (299, 11203), (302, 11212), (311, 11257), (314, 11266), (321, 11287), (325, 11299), (326, 11302), (333, 11323), (334, 11326), (335, 11332), (337, 11338), (342, 11359), (343, 11365), (349, 11386), (355, 11410), (357, 11419), (362, 11437), (366, 11458), (380, 11509), (381, 11512), (383, 11521), (384, 11524), (414, 11629), (418, 11644), (424, 11662), (441, 11731), (450, 11773), (453, 11785), (462, 11806), (463, 11809), (479, 11905), (480, 11908), (491, 11962), (497, 12001), (501, 12019), (506, 12049), (507, 12058), (512, 12100), (542, 12220),

Gene: Pterodactyl_14 Start: 9710, Stop: 12271, Start Num: 12

Candidate Starts for Pterodactyl_14:

(8, 9689), (Start: 12 @9710 has 83 MA's), (21, 9758), (32, 9839), (35, 9863), (49, 9935), (54, 9983), (55, 9998), (56, 10004), (76, 10166), (91, 10262), (97, 10295), (116, 10433), (131, 10511), (139, 10556), (144, 10565), (158, 10616), (163, 10634), (165, 10646), (170, 10670), (216, 10886), (243, 10997), (250, 11024), (255, 11042), (257, 11048), (264, 11072), (266, 11081), (281, 11129), (289, 11156), (298, 11186), (310, 11243), (315, 11258), (319, 11270), (321, 11276), (322, 11279), (325, 11288), (334, 11315), (337, 11327), (339, 11336), (342, 11348), (343, 11354), (350, 11378), (355, 11399), (357, 11408), (361, 11423), (366, 11447), (380, 11498), (381, 11501), (384, 11513), (406, 11588), (414, 11618), (426, 11654), (450, 11762), (453, 11774), (463, 11798), (479, 11894), (480, 11897), (488, 11930), (491, 11951), (497, 11990), (501, 12008), (506, 12038), (507, 12047), (527, 12146), (542, 12212),

Gene: Publix_12 Start: 7603, Stop: 9708, Start Num: 22

Candidate Starts for Publix_12:

(Start: 22 @7603 has 124 MA's), (Start: 26 @7624 has 3 MA's), (52, 7801), (54, 7810), (57, 7834), (65, 7906), (69, 7930), (85, 8029), (94, 8107), (96, 8119), (98, 8128), (131, 8335), (144, 8353), (183, 8440), (214, 8509), (229, 8521), (241, 8569), (261, 8599), (271, 8614), (297, 8668), (306, 8698), (307, 8701), (315, 8722), (325, 8752), (334, 8779), (342, 8812), (352, 8851), (359, 8878), (360, 8884), (364, 8899), (367, 8914), (383, 8941), (384, 8944), (393, 8965), (397, 8977), (399, 8983), (412, 9031), (423, 9067), (435, 9115), (443, 9142), (446, 9163), (464, 9226), (468, 9250), (478, 9307), (500, 9412), (502, 9433), (509, 9487), (513, 9508), (519, 9529),

Gene: Puddles3_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Puddles3_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: PuffyCat_12 Start: 7573, Stop: 9678, Start Num: 22

Candidate Starts for PuffyCat_12:

(Start: 22 @7573 has 124 MA's), (Start: 26 @7594 has 3 MA's), (52, 7771), (54, 7780), (57, 7804), (65, 7876), (69, 7900), (85, 7999), (90, 8056), (94, 8077), (96, 8089), (98, 8098), (131, 8305), (144, 8323), (183, 8410), (214, 8479), (229, 8491), (241, 8539), (261, 8569), (271, 8584), (306, 8668), (307, 8671),

(315, 8692), (325, 8722), (334, 8749), (342, 8782), (352, 8821), (359, 8848), (360, 8854), (364, 8869), (367, 8884), (384, 8914), (393, 8935), (397, 8947), (399, 8953), (412, 9001), (423, 9037), (435, 9085), (443, 9112), (446, 9133), (464, 9196), (468, 9220), (478, 9277), (500, 9382), (502, 9403), (509, 9457), (513, 9478), (519, 9499),

Gene: Pumancara_14 Start: 9749, Stop: 12307, Start Num: 12

Candidate Starts for Pumancara_14:

(Start: 12 @9749 has 83 MA's), (15, 9758), (32, 9878), (54, 10022), (55, 10037), (76, 10205), (91, 10301), (99, 10346), (104, 10391), (134, 10574), (139, 10595), (144, 10604), (146, 10610), (150, 10622), (158, 10655), (176, 10742), (203, 10865), (219, 10940), (232, 11003), (243, 11036), (248, 11057), (250, 11063), (255, 11081), (257, 11087), (264, 11111), (276, 11153), (281, 11168), (283, 11174), (305, 11252), (311, 11285), (314, 11294), (321, 11315), (325, 11327), (334, 11354), (337, 11366), (339, 11375), (342, 11387), (343, 11393), (344, 11396), (350, 11417), (357, 11447), (362, 11465), (365, 11483), (366, 11486), (369, 11495), (371, 11504), (380, 11537), (381, 11540), (384, 11552), (389, 11567), (412, 11651), (414, 11657), (426, 11693), (439, 11750), (450, 11801), (453, 11813), (466, 11858), (479, 11933), (480, 11936), (487, 11966), (497, 12029), (506, 12077), (507, 12086), (509, 12110), (511, 12122), (542, 12248),

Gene: Pumpkins_16 Start: 10836, Stop: 13160, Start Num: 11

Candidate Starts for Pumpkins_16:

(Start: 11 @10836 has 52 MA's), (35, 10992), (36, 11001), (37, 11004), (38, 11010), (50, 11082), (58, 11142), (72, 11259), (84, 11340), (85, 11343), (88, 11373), (101, 11457), (110, 11514), (113, 11538), (121, 11598), (122, 11604), (198, 11823), (257, 11991), (272, 12039), (289, 12093), (303, 12135), (313, 12174), (358, 12327), (415, 12480), (418, 12492), (438, 12570), (439, 12573), (450, 12624), (479, 12756), (480, 12759), (488, 12792), (501, 12870), (507, 12909),

Gene: Quaker_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Quaker_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: RAP15_18 Start: 12624, Stop: 15185, Start Num: 12

Candidate Starts for RAP15_18:

(8, 12603), (Start: 12 @12624 has 83 MA's), (21, 12672), (24, 12705), (32, 12753), (35, 12777), (37, 12789), (49, 12849), (54, 12897), (55, 12912), (56, 12918), (73, 13038), (76, 13080), (91, 13176), (92, 13179), (97, 13209), (103, 13263), (104, 13266), (128, 13404), (131, 13425), (134, 13449), (139, 13470), (144, 13479), (158, 13530), (163, 13548), (202, 13734), (232, 13878), (243, 13911), (250, 13938), (255, 13956), (257, 13962), (264, 13986), (266, 13995), (281, 14043), (289, 14070), (290, 14073), (296, 14094), (298, 14100), (299, 14106), (310, 14157), (315, 14172), (319, 14184), (321, 14190), (322, 14193), (325, 14202), (334, 14229), (337, 14241), (339, 14250), (342, 14262), (343, 14268), (349, 14289), (357, 14322), (366, 14361), (380, 14412), (381, 14415), (383, 14424), (384, 14427), (389, 14442), (414, 14532), (426, 14568), (450, 14676), (463, 14712), (479, 14808), (480, 14811), (491, 14865), (497, 14904), (506, 14952), (507, 14961), (509, 14985), (512, 15003), (526, 15054), (534, 15078), (536, 15096), (542, 15126),

Gene: Rasovi_19 Start: 13514, Stop: 15508, Start Num: 19

Candidate Starts for Rasovi_19:

(Start: 19 @13514 has 16 MA's), (25, 13553), (43, 13664), (48, 13679), (49, 13691), (62, 13805), (72, 13883), (75, 13907), (93, 14039), (102, 14090), (111, 14156), (127, 14252), (152, 14363), (193, 14489), (209, 14549), (213, 14573), (217, 14591), (231, 14624), (291, 14771), (304, 14789), (347, 14822), (351, 14837), (376, 14903), (447, 15062), (449, 15068), (450, 15074), (479, 15152), (484, 15167), (492, 15209), (503, 15275), (513, 15344), (543, 15482),

Gene: RcigaStruga_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for RcigaStruga_18:

(8, 12596), (Start: 12 @12617 has 83 MA's), (27, 12707), (32, 12746), (37, 12782), (49, 12842), (55, 12905), (76, 13073), (86, 13118), (90, 13166), (91, 13169), (92, 13172), (103, 13256), (104, 13259), (128, 13397), (139, 13463), (150, 13490), (161, 13532), (226, 13841), (232, 13874), (250, 13934), (257, 13958), (281, 14039), (283, 14045), (284, 14048), (291, 14072), (299, 14102), (305, 14123), (316, 14171), (321, 14186), (326, 14201), (334, 14225), (337, 14237), (338, 14243), (342, 14258), (343, 14264), (353, 14303), (355, 14309), (357, 14318), (362, 14336), (363, 14342), (365, 14354), (366, 14357), (369, 14366), (374, 14384), (380, 14408), (381, 14411), (384, 14423), (390, 14441), (409, 14507), (412, 14522), (421, 14552), (424, 14561), (439, 14621), (450, 14672), (463, 14708), (479, 14804), (480, 14807), (491, 14861), (497, 14900), (502, 14927), (507, 14957), (509, 14981), (519, 15023), (526, 15050), (542, 15119),

Gene: Reedo_16 Start: 10781, Stop: 13090, Start Num: 11

Candidate Starts for Reedo_16:

(Start: 11 @10781 has 52 MA's), (35, 10937), (36, 10946), (42, 10979), (50, 11027), (58, 11087), (72, 11204), (84, 11285), (85, 11288), (88, 11318), (97, 11372), (101, 11402), (110, 11459), (113, 11483), (116, 11513), (121, 11543), (122, 11549), (129, 11573), (138, 11636), (156, 11669), (194, 11747), (234, 11864), (297, 12062), (303, 12080), (313, 12119), (320, 12140), (333, 12179), (337, 12194), (347, 12233), (359, 12275), (376, 12341), (429, 12473), (441, 12527), (445, 12539), (464, 12614), (466, 12626), (482, 12710), (489, 12746), (500, 12800), (504, 12830), (526, 12944), (541, 13022),

Gene: Rhogar_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Rhogar_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Rhysand_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Rhysand_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Riovina_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Riovina_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (53, 10008), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109),

(270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: Riverdale_18 Start: 12554, Stop: 15115, Start Num: 12

Candidate Starts for Riverdale_18:

(8, 12533), (Start: 12 @12554 has 83 MA's), (21, 12602), (24, 12635), (32, 12683), (35, 12707), (37, 12719), (49, 12779), (54, 12827), (55, 12842), (56, 12848), (73, 12968), (76, 13010), (91, 13106), (92, 13109), (97, 13139), (103, 13193), (128, 13334), (131, 13355), (134, 13379), (139, 13400), (144, 13409), (158, 13460), (163, 13478), (232, 13808), (243, 13841), (250, 13868), (255, 13886), (257, 13892), (264, 13916), (266, 13925), (281, 13973), (289, 14000), (298, 14030), (299, 14036), (310, 14087), (315, 14102), (319, 14114), (321, 14120), (322, 14123), (334, 14159), (337, 14171), (339, 14180), (342, 14192), (343, 14198), (349, 14219), (357, 14252), (366, 14291), (371, 14309), (380, 14342), (381, 14345), (383, 14354), (384, 14357), (389, 14372), (414, 14462), (426, 14498), (450, 14606), (463, 14642), (466, 14663), (479, 14738), (480, 14741), (491, 14795), (497, 14834), (506, 14882), (507, 14891), (509, 14915), (512, 14933), (526, 14984), (534, 15008), (536, 15026), (542, 15056),

Gene: RockScotty_16 Start: 10335, Stop: 12755, Start Num: 16

Candidate Starts for RockScotty_16:

(Start: 16 @10335 has 11 MA's), (28, 10422), (44, 10527), (48, 10539), (54, 10599), (68, 10710), (78, 10791), (98, 10917), (100, 10932), (108, 10986), (144, 11160), (167, 11244), (172, 11265), (180, 11307), (214, 11433), (222, 11454), (229, 11487), (245, 11544), (256, 11586), (261, 11601), (276, 11652), (287, 11688), (289, 11694), (322, 11796), (330, 11817), (340, 11859), (356, 11919), (357, 11925), (369, 11973), (406, 12069), (453, 12246), (455, 12258), (470, 12309), (485, 12390), (497, 12459), (504, 12495), (518, 12576), (522, 12591), (537, 12663), (540, 12687),

Gene: RoscoWindex_12 Start: 7553, Stop: 9658, Start Num: 22

Candidate Starts for RoscoWindex_12:

(Start: 22 @7553 has 124 MA's), (Start: 26 @7574 has 3 MA's), (52, 7751), (54, 7760), (57, 7784), (65, 7856), (69, 7880), (70, 7886), (90, 8036), (94, 8057), (96, 8069), (98, 8078), (131, 8285), (144, 8303), (183, 8390), (214, 8459), (229, 8471), (241, 8519), (261, 8549), (271, 8564), (288, 8600), (299, 8627), (306, 8648), (315, 8672), (323, 8696), (325, 8702), (334, 8729), (342, 8762), (352, 8801), (359, 8828), (364, 8849), (367, 8864), (383, 8891), (384, 8894), (393, 8915), (397, 8927), (399, 8933), (412, 8981), (433, 9056), (435, 9065), (443, 9092), (446, 9113), (464, 9176), (468, 9200), (478, 9257), (500, 9362), (502, 9383), (505, 9395), (509, 9437), (513, 9458), (519, 9479),

Gene: Rozby_18 Start: 12555, Stop: 15116, Start Num: 12

Candidate Starts for Rozby_18:

(8, 12534), (Start: 12 @12555 has 83 MA's), (21, 12603), (24, 12636), (32, 12684), (35, 12708), (37, 12720), (49, 12780), (54, 12828), (55, 12843), (56, 12849), (73, 12969), (76, 13011), (91, 13107), (92, 13110), (97, 13140), (103, 13194), (128, 13335), (131, 13356), (134, 13380), (139, 13401), (144, 13410), (158, 13461), (163, 13479), (202, 13665), (232, 13809), (243, 13842), (250, 13869), (255, 13887), (257, 13893), (264, 13917), (266, 13926), (281, 13974), (289, 14001), (298, 14031), (299, 14037), (310, 14088), (315, 14103), (319, 14115), (321, 14121), (322, 14124), (334, 14160), (337, 14172), (339, 14181), (342, 14193), (343, 14199), (349, 14220), (357, 14253), (366, 14292), (371, 14310), (380, 14343), (381, 14346), (383, 14355), (384, 14358), (389, 14373), (414, 14463), (426, 14499), (450, 14607), (463, 14643), (466, 14664), (479, 14739), (480, 14742), (491, 14796), (497, 14835), (506, 14883), (507, 14892), (509, 14916), (512, 14934), (526, 14985), (534, 15009), (536, 15027), (542, 15057),

Gene: SBlackberry_19 Start: 13346, Stop: 15334, Start Num: 19

Candidate Starts for SBlackberry_19:

(Start: 19 @13346 has 16 MA's), (25, 13385), (43, 13496), (48, 13511), (49, 13523), (72, 13715), (75, 13739), (102, 13922), (111, 13988), (127, 14084), (131, 14108), (152, 14195), (180, 14297), (193, 14321), (210, 14390), (217, 14423), (282, 14588), (304, 14621), (345, 14648), (350, 14666), (384, 14768), (388, 14780), (390, 14786), (434, 14867), (492, 15041), (503, 15107), (510, 15167), (513, 15176), (543, 15308),

Gene: Sabourin_16 Start: 10242, Stop: 12662, Start Num: 16

Candidate Starts for Sabourin_16:

(Start: 16 @10242 has 11 MA's), (28, 10329), (35, 10386), (44, 10434), (48, 10446), (54, 10506), (68, 10617), (78, 10698), (98, 10824), (100, 10839), (108, 10893), (144, 11067), (167, 11151), (172, 11172), (175, 11193), (180, 11214), (214, 11340), (222, 11361), (229, 11394), (245, 11451), (256, 11493), (261, 11508), (276, 11559), (287, 11595), (322, 11703), (330, 11724), (340, 11766), (343, 11778), (357, 11832), (369, 11880), (406, 11976), (448, 12132), (453, 12153), (455, 12165), (470, 12216), (497, 12366), (504, 12402), (518, 12483), (540, 12594),

Gene: Sage7_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Sage7_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 3

Candidate Starts for Salgado_67:

(Start: 3 @36346 has 7 MA's), (7, 36367), (13, 36397), (Start: 14 @36400 has 1 MA's), (31, 36505), (43, 36589), (45, 36598), (52, 36658), (79, 36868), (81, 36874), (82, 36877), (83, 36880), (93, 36967), (102, 37018), (107, 37060), (108, 37063), (119, 37147), (123, 37165), (160, 37315), (167, 37354), (192, 37408), (195, 37417), (218, 37507), (242, 37603), (252, 37633), (257, 37651), (258, 37654), (262, 37666), (267, 37687), (271, 37699), (286, 37750), (313, 37843), (341, 37930), (351, 37966), (353, 37978), (356, 37987), (363, 38017), (366, 38032), (369, 38041), (388, 38110), (422, 38149), (452, 38275), (481, 38350), (496, 38425), (498, 38446), (504, 38479), (505, 38482), (509, 38524), (511, 38536), (517, 38557), (530, 38611), (546, 38713), (551, 38776), (555, 38887), (557, 38920), (559, 38974), (560, 38983), (564, 39076), (565, 39085), (567, 39184), (568, 39190), (570, 39220), (571, 39259), (573, 39346),

Gene: SantasSleigh_12 Start: 7576, Stop: 9681, Start Num: 22

Candidate Starts for SantasSleigh_12:

(Start: 22 @7576 has 124 MA's), (Start: 26 @7597 has 3 MA's), (52, 7774), (54, 7783), (57, 7807), (65, 7879), (69, 7903), (70, 7909), (90, 8059), (94, 8080), (96, 8092), (98, 8101), (131, 8308), (144, 8326), (183, 8413), (214, 8482), (229, 8494), (241, 8542), (261, 8572), (271, 8587), (288, 8623), (299, 8650), (306, 8671), (315, 8695), (323, 8719), (325, 8725), (334, 8752), (342, 8785), (352, 8824), (359, 8851), (364, 8872), (367, 8887), (383, 8914), (384, 8917), (393, 8938), (397, 8950), (399, 8956), (412, 9004), (433, 9079), (435, 9088), (443, 9115), (446, 9136), (464, 9199), (468, 9223), (478, 9280), (500, 9385), (502, 9406), (505, 9418), (509, 9460), (513, 9481), (519, 9502),

Gene: Sara_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for Sara_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Savage2526_18 Start: 12618, Stop: 15179, Start Num: 12

Candidate Starts for Savage2526_18:

(8, 12597), (Start: 12 @12618 has 83 MA's), (21, 12666), (24, 12699), (32, 12747), (35, 12771), (37, 12783), (49, 12843), (54, 12891), (55, 12906), (56, 12912), (73, 13032), (76, 13074), (91, 13170), (92, 13173), (97, 13203), (103, 13257), (128, 13398), (131, 13419), (134, 13443), (139, 13464), (144, 13473), (158, 13524), (163, 13542), (202, 13728), (232, 13872), (243, 13905), (250, 13932), (255, 13950), (257, 13956), (264, 13980), (266, 13989), (281, 14037), (289, 14064), (298, 14094), (299, 14100), (310, 14151), (315, 14166), (319, 14178), (321, 14184), (322, 14187), (325, 14196), (334, 14223), (337, 14235), (339, 14244), (342, 14256), (343, 14262), (349, 14283), (355, 14307), (357, 14316), (366, 14355), (371, 14373), (380, 14406), (381, 14409), (383, 14418), (384, 14421), (389, 14436), (414, 14526), (426, 14562), (450, 14670), (463, 14706), (479, 14802), (480, 14805), (491, 14859), (497, 14898), (506, 14946), (507, 14955), (509, 14979), (512, 14997), (526, 15048), (534, 15072), (536, 15090), (542, 15120),

Gene: Scamander_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Scamander_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: Scrunchy_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Scrunchy_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Scuttle_18 Start: 12623, Stop: 15184, Start Num: 12

Candidate Starts for Scuttle_18:

(8, 12602), (Start: 12 @12623 has 83 MA's), (21, 12671), (24, 12704), (32, 12752), (35, 12776), (37, 12788), (49, 12848), (54, 12896), (55, 12911), (56, 12917), (73, 13037), (76, 13079), (91, 13175), (92, 13178), (97, 13208), (103, 13262), (128, 13403), (131, 13424), (134, 13448), (139, 13469), (144, 13478), (158, 13529), (163, 13547), (168, 13571), (202, 13733), (232, 13877), (243, 13910), (250, 13937), (255, 13955), (257, 13961), (264, 13985), (266, 13994), (281, 14042), (289, 14069), (296, 14093), (298, 14099), (299, 14105), (310, 14156), (315, 14171), (319, 14183), (321, 14189), (322, 14192), (325, 14201), (334, 14228), (337, 14240), (339, 14249), (342, 14261), (343, 14267), (349, 14288), (357, 14321), (366, 14360), (380, 14411), (381, 14414), (383, 14423), (384, 14426), (389, 14441), (412, 14525), (414, 14531), (426, 14567), (450, 14675), (463, 14711), (479, 14807), (480,

14810), (491, 14864), (497, 14903), (506, 14951), (507, 14960), (509, 14984), (512, 15002), (526, 15053), (534, 15077), (536, 15095), (542, 15125),

Gene: SeaWolves_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for SeaWolves_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: Sergei_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Sergei_14:

(Start: 12 @9744 has 83 MA's), (15, 9753), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650), (176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: Shaffner_17 Start: 10823, Stop: 13147, Start Num: 11

Candidate Starts for Shaffner_17:

(Start: 11 @10823 has 52 MA's), (38, 10997), (42, 11021), (50, 11069), (58, 11129), (70, 11234), (72, 11246), (84, 11327), (85, 11330), (88, 11360), (97, 11414), (101, 11444), (106, 11486), (110, 11501), (113, 11525), (116, 11555), (121, 11585), (122, 11591), (198, 11810), (246, 11939), (257, 11978), (272, 12026), (279, 12047), (289, 12080), (303, 12122), (313, 12161), (333, 12221), (358, 12314), (415, 12467), (418, 12479), (438, 12557), (439, 12560), (450, 12611), (479, 12743), (480, 12746), (488, 12779), (501, 12857), (507, 12896),

Gene: ShakeltOph_16 Start: 8971, Stop: 11214, Start Num: 11

Candidate Starts for ShakeltOph_16:

(Start: 11 @8971 has 52 MA's), (27, 9058), (43, 9160), (52, 9226), (67, 9331), (81, 9442), (83, 9448), (95, 9544), (102, 9586), (123, 9733), (128, 9751), (162, 9868), (174, 9895), (196, 9928), (207, 9964), (216, 10012), (225, 10051), (234, 10090), (253, 10138), (255, 10147), (258, 10156), (261, 10165), (272, 10207), (286, 10243), (290, 10255), (304, 10300), (305, 10306), (311, 10330), (323, 10366), (330, 10384), (336, 10408), (338, 10417), (341, 10429), (347, 10450), (348, 10453), (355, 10483), (442, 10729), (479, 10846), (497, 10942), (500, 10948), (504, 10978),

Gene: Shrooms_65 Start: 34492, Stop: 37881, Start Num: 3

Candidate Starts for Shrooms_65:

(2, 34486), (Start: 3 @34492 has 7 MA's), (6, 34510), (7, 34513), (13, 34543), (Start: 14 @34546 has 1 MA's), (24, 34621), (40, 34723), (43, 34735), (52, 34804), (81, 35020), (82, 35023), (83, 35026), (93, 35113), (102, 35164), (108, 35209), (112, 35236), (123, 35311), (128, 35329), (133, 35362), (149, 35431), (163, 35491), (164, 35494), (178, 35560), (179, 35566), (182, 35587), (185, 35602), (195, 35644), (209, 35698), (213, 35722), (214, 35728), (218, 35743), (219, 35752), (239, 35833), (251, 35866), (262, 35902), (271, 35935), (286, 35986), (296, 36016), (312, 36076), (313, 36079), (341, 36166), (344, 36178), (347, 36187), (356, 36223), (359, 36235), (363, 36253), (370, 36280), (383,

36331), (392, 36364), (401, 36409), (403, 36427), (405, 36433), (407, 36445), (410, 36463), (411, 36472), (422, 36517), (440, 36586), (449, 36631), (453, 36649), (456, 36673), (457, 36676), (458, 36685), (459, 36697), (460, 36709), (466, 36751), (469, 36817), (486, 36907), (493, 36940), (496, 36958), (504, 37012), (505, 37015), (510, 37066), (511, 37069), (517, 37090), (521, 37102), (525, 37126), (527, 37135), (532, 37156), (546, 37246), (550, 37267), (551, 37309), (553, 37327), (554, 37399), (555, 37420), (556, 37444), (557, 37453), (558, 37474), (559, 37507), (564, 37609), (566, 37654), (569, 37720), (571, 37777),

Gene: Simpson_18 Start: 10730, Stop: 13045, Start Num: 11

Candidate Starts for Simpson_18:

(Start: 11 @10730 has 52 MA's), (35, 10886), (36, 10895), (50, 10976), (51, 10988), (58, 11036), (72, 11153), (84, 11234), (85, 11237), (88, 11267), (97, 11321), (101, 11351), (110, 11408), (113, 11432), (121, 11492), (198, 11717), (234, 11813), (257, 11885), (272, 11933), (289, 11987), (303, 12029), (313, 12068), (333, 12128), (425, 12407), (431, 12431), (438, 12464), (439, 12467), (450, 12518), (476, 12629), (479, 12650), (480, 12653), (488, 12686), (501, 12764), (505, 12785), (507, 12803), (518, 12863), (524, 12893), (536, 12944), (543, 12989), (549, 13034),

Gene: Sippinontea_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Sippinontea_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342), (502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: Slentz_12 Start: 7546, Stop: 9651, Start Num: 22

Candidate Starts for Slentz_12:

(Start: 22 @7546 has 124 MA's), (Start: 26 @7567 has 3 MA's), (52, 7744), (54, 7753), (57, 7777), (65, 7849), (69, 7873), (70, 7879), (90, 8029), (94, 8050), (96, 8062), (98, 8071), (131, 8278), (144, 8296), (183, 8383), (214, 8452), (229, 8464), (241, 8512), (261, 8542), (271, 8557), (288, 8593), (299, 8620), (306, 8641), (315, 8665), (323, 8689), (325, 8695), (334, 8722), (342, 8755), (352, 8794), (359, 8821), (364, 8842), (367, 8857), (383, 8884), (384, 8887), (393, 8908), (397, 8920), (399, 8926), (412, 8974), (433, 9049), (435, 9058), (443, 9085), (446, 9106), (464, 9169), (468, 9193), (478, 9250), (500, 9355), (502, 9376), (505, 9388), (509, 9430), (513, 9451), (519, 9472),

Gene: Slizam_12 Start: 7579, Stop: 9684, Start Num: 22

Candidate Starts for Slizam_12:

(Start: 22 @7579 has 124 MA's), (Start: 26 @7600 has 3 MA's), (52, 7777), (54, 7786), (57, 7810), (65, 7882), (69, 7906), (85, 8005), (94, 8083), (96, 8095), (98, 8104), (131, 8311), (144, 8329), (183, 8416), (214, 8485), (229, 8497), (241, 8545), (261, 8575), (271, 8590), (297, 8644), (306, 8674), (307, 8677), (315, 8698), (325, 8728), (334, 8755), (342, 8788), (352, 8827), (359, 8854), (360, 8860), (364, 8875), (367, 8890), (383, 8917), (384, 8920), (393, 8941), (397, 8953), (399, 8959), (412, 9007), (423, 9043), (435, 9091), (443, 9118), (446, 9139), (464, 9202), (468, 9226), (478, 9283), (500, 9388), (502, 9409), (509, 9463), (513, 9484), (519, 9505),

Gene: Snek_16 Start: 9838, Stop: 12117, Start Num: 11

Candidate Starts for Snek_16:

(Start: 11 @9838 has 52 MA's), (48, 10042), (52, 10093), (66, 10195), (74, 10261), (81, 10309), (83, 10315), (93, 10402), (95, 10411), (102, 10453), (108, 10498), (123, 10600), (128, 10618), (162, 10747), (172, 10762), (191, 10804), (199, 10825), (204, 10840), (229, 10951), (253, 11023), (255, 11032), (258, 11041), (262, 11053), (274, 11098), (276, 11104), (284, 11119), (290, 11140), (304,

11185), (327, 11263), (348, 11338), (352, 11356), (413, 11503), (442, 11614), (470, 11677), (475, 11698), (478, 11725), (482, 11740), (500, 11830), (504, 11860), (515, 11926), (542, 12052), (547, 12091),

Gene: Snuffles_13 Start: 7751, Stop: 9856, Start Num: 22

Candidate Starts for Snuffles_13:

(Start: 22 @7751 has 124 MA's), (Start: 26 @7772 has 3 MA's), (52, 7949), (54, 7958), (57, 7982), (65, 8054), (69, 8078), (85, 8177), (94, 8255), (96, 8267), (98, 8276), (131, 8483), (144, 8501), (183, 8588), (214, 8657), (229, 8669), (241, 8717), (261, 8747), (271, 8762), (297, 8816), (306, 8846), (307, 8849), (315, 8870), (325, 8900), (334, 8927), (342, 8960), (352, 8999), (359, 9026), (360, 9032), (364, 9047), (367, 9062), (383, 9089), (384, 9092), (393, 9113), (397, 9125), (399, 9131), (412, 9179), (423, 9215), (435, 9263), (443, 9290), (446, 9311), (464, 9374), (468, 9398), (478, 9455), (500, 9560), (502, 9581), (509, 9635), (513, 9656), (519, 9677),

Gene: Sooty_16 Start: 10245, Stop: 12665, Start Num: 16

Candidate Starts for Sooty_16:

(Start: 16 @10245 has 11 MA's), (28, 10332), (35, 10389), (44, 10437), (48, 10449), (54, 10509), (68, 10620), (78, 10701), (98, 10827), (100, 10842), (108, 10896), (144, 11070), (167, 11154), (172, 11175), (175, 11196), (180, 11217), (190, 11268), (214, 11343), (222, 11364), (229, 11397), (245, 11454), (256, 11496), (261, 11511), (276, 11562), (287, 11598), (322, 11706), (330, 11727), (340, 11769), (343, 11781), (357, 11835), (369, 11883), (406, 11979), (448, 12135), (453, 12156), (455, 12168), (470, 12219), (497, 12369), (504, 12405), (508, 12438), (540, 12597),

Gene: SpecialK_16 Start: 10242, Stop: 12662, Start Num: 16

Candidate Starts for SpecialK_16:

(Start: 16 @10242 has 11 MA's), (28, 10329), (44, 10434), (48, 10446), (54, 10506), (68, 10617), (78, 10698), (98, 10824), (100, 10839), (108, 10893), (144, 11067), (167, 11151), (172, 11172), (180, 11214), (214, 11340), (222, 11361), (229, 11394), (245, 11451), (256, 11493), (261, 11508), (276, 11559), (287, 11595), (289, 11601), (322, 11703), (330, 11724), (340, 11766), (356, 11826), (357, 11832), (369, 11880), (406, 11976), (453, 12153), (455, 12165), (470, 12216), (485, 12297), (497, 12366), (504, 12402), (518, 12483), (522, 12498), (537, 12570), (540, 12594),

Gene: Stem_12 Start: 7579, Stop: 9684, Start Num: 22

Candidate Starts for Stem_12:

(Start: 22 @7579 has 124 MA's), (Start: 26 @7600 has 3 MA's), (52, 7777), (54, 7786), (57, 7810), (65, 7882), (69, 7906), (85, 8005), (90, 8062), (94, 8083), (96, 8095), (98, 8104), (131, 8311), (144, 8329), (183, 8416), (214, 8485), (229, 8497), (241, 8545), (261, 8575), (271, 8590), (297, 8644), (306, 8674), (307, 8677), (315, 8698), (325, 8728), (334, 8755), (342, 8788), (352, 8827), (359, 8854), (360, 8860), (364, 8875), (367, 8890), (383, 8917), (384, 8920), (393, 8941), (397, 8953), (399, 8959), (412, 9007), (423, 9043), (435, 9091), (443, 9118), (446, 9139), (464, 9202), (468, 9226), (478, 9283), (500, 9388), (502, 9409), (509, 9463), (513, 9484), (519, 9505),

Gene: Stuu_17 Start: 10335, Stop: 12755, Start Num: 16

Candidate Starts for Stuu_17:

(Start: 16 @10335 has 11 MA's), (28, 10422), (44, 10527), (48, 10539), (54, 10599), (68, 10710), (78, 10791), (98, 10917), (100, 10932), (108, 10986), (144, 11160), (167, 11244), (172, 11265), (180, 11307), (214, 11433), (222, 11454), (229, 11487), (245, 11544), (256, 11586), (261, 11601), (276, 11652), (287, 11688), (289, 11694), (322, 11796), (330, 11817), (340, 11859), (356, 11919), (357, 11925), (369, 11973), (406, 12069), (448, 12225), (453, 12246), (455, 12258), (470, 12309), (497, 12459), (504, 12495), (537, 12663), (540, 12687),

Gene: Subaru_16 Start: 10704, Stop: 13028, Start Num: 11

Candidate Starts for Subaru_16:

(Start: 11 @10704 has 52 MA's), (34, 10857), (35, 10860), (36, 10869), (50, 10950), (58, 11010), (63, 11055), (72, 11127), (84, 11208), (85, 11211), (88, 11241), (97, 11295), (101, 11325), (110, 11382), (113, 11406), (121, 11466), (122, 11472), (129, 11496), (156, 11592), (198, 11691), (234, 11787), (257, 11859), (272, 11907), (289, 11961), (303, 12003), (313, 12042), (319, 12060), (333, 12102), (358, 12195), (420, 12366), (425, 12381), (450, 12492), (479, 12624), (480, 12627), (488, 12660), (501, 12738), (507, 12777), (518, 12837), (536, 12927),

Gene: Sucha_16 Start: 10506, Stop: 12797, Start Num: 19

Candidate Starts for Sucha_16:

(Start: 19 @10506 has 16 MA's), (37, 10623), (43, 10656), (62, 10797), (72, 10875), (93, 11031), (102, 11082), (109, 11133), (112, 11154), (131, 11268), (132, 11271), (134, 11292), (150, 11349), (191, 11478), (193, 11481), (198, 11499), (203, 11517), (209, 11541), (247, 11703), (271, 11784), (276, 11802), (283, 11823), (293, 11856), (294, 11859), (329, 11964), (335, 11988), (355, 12066), (356, 12069), (363, 12099), (375, 12144), (383, 12177), (433, 12276), (442, 12312), (444, 12318), (449, 12345), (473, 12384), (479, 12429), (483, 12441), (485, 12453), (487, 12462), (488, 12465), (507, 12579), (515, 12630), (520, 12645),

Gene: Sue2_16 Start: 10752, Stop: 13142, Start Num: 11

Candidate Starts for Sue2_16:

(Start: 11 @10752 has 52 MA's), (18, 10785), (36, 10905), (43, 10941), (52, 11007), (66, 11109), (81, 11223), (83, 11229), (93, 11316), (95, 11325), (102, 11367), (123, 11514), (187, 11790), (210, 11874), (234, 11985), (259, 12063), (261, 12069), (263, 12078), (271, 12105), (304, 12204), (334, 12303), (337, 12315), (343, 12342), (348, 12357), (350, 12366), (352, 12375), (363, 12420), (386, 12507), (422, 12552), (451, 12675), (477, 12732), (479, 12750), (480, 12753), (490, 12801), (501, 12864), (507, 12903), (542, 13077),

Gene: Supakev_14 Start: 9740, Stop: 12298, Start Num: 12

Candidate Starts for Supakev_14:

(Start: 12 @9740 has 83 MA's), (15, 9749), (Start: 19 @9779 has 16 MA's), (32, 9869), (49, 9965), (53, 10010), (55, 10028), (76, 10196), (91, 10292), (92, 10295), (94, 10310), (106, 10397), (146, 10601), (147, 10604), (167, 10688), (232, 10994), (250, 11054), (255, 11072), (257, 11078), (266, 11111), (270, 11123), (281, 11159), (289, 11186), (296, 11210), (298, 11216), (310, 11273), (318, 11297), (321, 11306), (326, 11321), (334, 11345), (337, 11357), (342, 11378), (343, 11384), (349, 11405), (355, 11429), (357, 11438), (362, 11456), (366, 11477), (368, 11483), (371, 11495), (380, 11528), (381, 11531), (384, 11543), (389, 11558), (390, 11561), (414, 11648), (438, 11738), (439, 11741), (450, 11792), (466, 11849), (467, 11858), (479, 11924), (480, 11927), (491, 11981), (497, 12020), (506, 12068), (507, 12077), (509, 12101), (511, 12113), (536, 12209), (542, 12239),

Gene: Suppi_18 Start: 12647, Stop: 15202, Start Num: 12

Candidate Starts for Suppi_18:

(8, 12626), (Start: 12 @12647 has 83 MA's), (21, 12695), (32, 12776), (35, 12800), (49, 12872), (54, 12920), (55, 12935), (56, 12941), (76, 13103), (86, 13148), (91, 13199), (92, 13202), (97, 13232), (116, 13370), (139, 13493), (158, 13553), (163, 13571), (166, 13586), (176, 13637), (226, 13868), (244, 13937), (250, 13961), (255, 13979), (257, 13985), (272, 14039), (276, 14051), (283, 14072), (290, 14096), (311, 14183), (319, 14207), (321, 14213), (322, 14216), (326, 14228), (333, 14249), (334, 14252), (335, 14258), (337, 14264), (339, 14273), (341, 14282), (342, 14285), (343, 14291), (350, 14315), (355, 14336), (357, 14345), (362, 14363), (366, 14384), (369, 14393), (371, 14402), (380, 14435), (381, 14438), (383, 14447), (384, 14450), (400, 14501), (426, 14591), (450, 14699), (453, 14711), (462, 14732), (463, 14735), (479, 14831), (480, 14834), (491, 14888), (497, 14927), (507, 14984), (512, 15026), (526, 15074), (536, 15116), (542, 15146),

Gene: TMaxx_17 Start: 9424, Stop: 11712, Start Num: 10

Candidate Starts for TMaxx_17:

(10, 9424), (66, 9784), (67, 9787), (81, 9898), (82, 9901), (83, 9904), (102, 10042), (123, 10189), (130, 10219), (137, 10270), (164, 10360), (196, 10441), (214, 10516), (223, 10552), (225, 10564), (226, 10567), (233, 10600), (255, 10660), (273, 10723), (275, 10729), (276, 10732), (285, 10753), (287, 10759), (292, 10774), (300, 10801), (304, 10813), (306, 10822), (310, 10840), (315, 10855), (316, 10858), (319, 10867), (321, 10873), (325, 10885), (334, 10912), (338, 10930), (343, 10951), (348, 10966), (436, 11218), (441, 11239), (442, 11242), (479, 11359), (480, 11362), (497, 11455), (507, 11512), (509, 11536), (510, 11545), (515, 11563), (528, 11614), (532, 11629), (538, 11653),

Gene: Tallboi_16 Start: 10731, Stop: 13055, Start Num: 11

Candidate Starts for Tallboi_16:

(Start: 11 @10731 has 52 MA's), (33, 10878), (35, 10887), (50, 10977), (58, 11037), (63, 11082), (72, 11154), (79, 11214), (85, 11238), (88, 11268), (97, 11322), (101, 11352), (110, 11409), (113, 11433), (121, 11493), (122, 11499), (198, 11718), (257, 11886), (272, 11934), (289, 11988), (303, 12030), (313, 12069), (333, 12129), (358, 12222), (422, 12399), (425, 12408), (450, 12519), (479, 12651), (480, 12654), (488, 12687), (501, 12765), (507, 12804), (518, 12864), (524, 12894), (536, 12954),

Gene: TattModd_18 Start: 12617, Stop: 15178, Start Num: 12

Candidate Starts for TattModd_18:

(8, 12596), (Start: 12 @12617 has 83 MA's), (21, 12665), (24, 12698), (32, 12746), (35, 12770), (37, 12782), (49, 12842), (54, 12890), (55, 12905), (56, 12911), (73, 13031), (76, 13073), (91, 13169), (92, 13172), (97, 13202), (103, 13256), (128, 13397), (131, 13418), (134, 13442), (139, 13463), (144, 13472), (158, 13523), (163, 13541), (202, 13727), (232, 13871), (243, 13904), (250, 13931), (255, 13949), (257, 13955), (264, 13979), (266, 13988), (281, 14036), (289, 14063), (298, 14093), (299, 14099), (310, 14150), (315, 14165), (319, 14177), (321, 14183), (322, 14186), (325, 14195), (334, 14222), (337, 14234), (339, 14243), (342, 14255), (343, 14261), (349, 14282), (355, 14306), (357, 14315), (366, 14354), (371, 14372), (380, 14405), (381, 14408), (383, 14417), (384, 14420), (389, 14435), (414, 14525), (426, 14561), (450, 14669), (463, 14705), (479, 14801), (480, 14804), (491, 14858), (497, 14897), (506, 14945), (507, 14954), (509, 14978), (512, 14996), (526, 15047), (534, 15071), (536, 15089), (542, 15119),

Gene: Tbone_16 Start: 10734, Stop: 13049, Start Num: 11

Candidate Starts for Tbone_16:

(Start: 11 @10734 has 52 MA's), (35, 10890), (36, 10899), (50, 10980), (51, 10992), (58, 11040), (59, 11043), (63, 11085), (72, 11157), (84, 11238), (85, 11241), (88, 11271), (97, 11325), (101, 11355), (110, 11412), (113, 11436), (121, 11496), (198, 11721), (234, 11817), (254, 11880), (257, 11889), (272, 11937), (279, 11958), (289, 11991), (303, 12033), (313, 12072), (333, 12132), (370, 12273), (422, 12402), (425, 12411), (431, 12435), (438, 12468), (446, 12504), (450, 12522), (476, 12633), (479, 12654), (480, 12657), (488, 12690), (501, 12768), (507, 12807), (518, 12867), (524, 12897), (536, 12948), (543, 12993), (549, 13038),

Gene: TeddyBoy_12 Start: 7547, Stop: 9652, Start Num: 22

Candidate Starts for TeddyBoy_12:

(Start: 22 @7547 has 124 MA's), (Start: 26 @7568 has 3 MA's), (52, 7745), (54, 7754), (57, 7778), (65, 7850), (69, 7874), (70, 7880), (90, 8030), (94, 8051), (96, 8063), (98, 8072), (131, 8279), (144, 8297), (183, 8384), (214, 8453), (229, 8465), (241, 8513), (261, 8543), (271, 8558), (288, 8594), (299, 8621), (306, 8642), (315, 8666), (323, 8690), (325, 8696), (334, 8723), (342, 8756), (352, 8795), (359, 8822), (364, 8843), (367, 8858), (383, 8885), (384, 8888), (393, 8909), (397, 8921), (399, 8927), (412, 8975), (433, 9050), (435, 9059), (443, 9086), (446, 9107), (464, 9170), (468, 9194), (478, 9251), (500, 9356), (502, 9377), (505, 9389), (509, 9431), (513, 9452), (519, 9473),

Gene: Temper16_14 Start: 9744, Stop: 12302, Start Num: 12

Candidate Starts for Temper16_14:

(Start: 12 @9744 has 83 MA's), (15, 9753), (Start: 19 @9783 has 16 MA's), (32, 9873), (37, 9909), (54, 10017), (55, 10032), (76, 10200), (91, 10296), (134, 10569), (139, 10590), (151, 10620), (158, 10650), (176, 10737), (203, 10860), (219, 10935), (232, 10998), (243, 11031), (248, 11052), (250, 11058), (255, 11076), (257, 11082), (264, 11106), (276, 11148), (281, 11163), (283, 11169), (291, 11196), (305, 11247), (311, 11280), (314, 11289), (321, 11310), (325, 11322), (334, 11349), (337, 11361), (339, 11370), (342, 11382), (343, 11388), (344, 11391), (350, 11412), (357, 11442), (362, 11460), (366, 11481), (369, 11490), (371, 11499), (380, 11532), (381, 11535), (384, 11547), (389, 11562), (412, 11646), (414, 11652), (426, 11688), (439, 11745), (441, 11754), (450, 11796), (466, 11853), (479, 11928), (480, 11931), (487, 11961), (491, 11985), (501, 12042), (506, 12072), (507, 12081), (509, 12105), (511, 12117), (542, 12243),

Gene: TforTroy_16 Start: 10854, Stop: 13178, Start Num: 11

Candidate Starts for TforTroy_16:

(Start: 11 @10854 has 52 MA's), (35, 11010), (36, 11019), (37, 11022), (38, 11028), (50, 11100), (58, 11160), (72, 11277), (84, 11358), (85, 11361), (88, 11391), (97, 11445), (101, 11475), (110, 11532), (113, 11556), (121, 11616), (122, 11622), (157, 11745), (198, 11841), (257, 12009), (272, 12057), (289, 12111), (303, 12153), (313, 12192), (333, 12252), (358, 12345), (406, 12480), (419, 12513), (422, 12522), (450, 12642), (479, 12774), (480, 12777), (501, 12888), (507, 12927),

Gene: Tian_16 Start: 10746, Stop: 13070, Start Num: 11

Candidate Starts for Tian_16:

(Start: 11 @10746 has 52 MA's), (35, 10902), (36, 10911), (50, 10992), (58, 11052), (63, 11097), (72, 11169), (79, 11229), (84, 11250), (85, 11253), (88, 11283), (97, 11337), (101, 11367), (110, 11424), (113, 11448), (121, 11508), (122, 11514), (156, 11634), (198, 11733), (234, 11829), (257, 11901), (272, 11949), (279, 11970), (289, 12003), (303, 12045), (313, 12084), (333, 12144), (337, 12159), (355, 12225), (387, 12348), (394, 12357), (422, 12414), (425, 12423), (438, 12480), (439, 12483), (450, 12534), (479, 12666), (480, 12669), (501, 12780), (507, 12819), (509, 12843), (536, 12969),

Gene: TimoTea_12 Start: 7528, Stop: 9633, Start Num: 22

Candidate Starts for TimoTea_12:

(Start: 22 @7528 has 124 MA's), (Start: 26 @7549 has 3 MA's), (52, 7726), (54, 7735), (57, 7759), (65, 7831), (69, 7855), (70, 7861), (90, 8011), (94, 8032), (96, 8044), (98, 8053), (131, 8260), (144, 8278), (183, 8365), (214, 8434), (229, 8446), (241, 8494), (261, 8524), (271, 8539), (288, 8575), (299, 8602), (306, 8623), (315, 8647), (323, 8671), (325, 8677), (334, 8704), (342, 8737), (352, 8776), (359, 8803), (364, 8824), (367, 8839), (383, 8866), (384, 8869), (393, 8890), (397, 8902), (399, 8908), (412, 8956), (433, 9031), (435, 9040), (443, 9067), (446, 9088), (464, 9151), (468, 9175), (478, 9232), (500, 9337), (502, 9358), (505, 9370), (509, 9412), (513, 9433), (519, 9454),

Gene: TinyTruffula_12 Start: 7648, Stop: 9753, Start Num: 22

Candidate Starts for TinyTruffula_12:

(Start: 22 @7648 has 124 MA's), (Start: 26 @7669 has 3 MA's), (52, 7846), (54, 7855), (57, 7879), (65, 7951), (69, 7975), (85, 8074), (90, 8131), (94, 8152), (96, 8164), (98, 8173), (131, 8380), (144, 8398), (183, 8485), (214, 8554), (229, 8566), (241, 8614), (261, 8644), (271, 8659), (306, 8743), (307, 8746), (315, 8767), (325, 8797), (334, 8824), (342, 8857), (352, 8896), (359, 8923), (360, 8929), (364, 8944), (367, 8959), (384, 8989), (393, 9010), (397, 9022), (399, 9028), (412, 9076), (423, 9112), (435, 9160), (443, 9187), (446, 9208), (464, 9271), (468, 9295), (478, 9352), (500, 9457), (502, 9478), (509, 9532), (513, 9553), (519, 9574),

Gene: TomBrady12_12 Start: 7580, Stop: 9685, Start Num: 22

Candidate Starts for TomBrady12_12:

(Start: 22 @7580 has 124 MA's), (Start: 26 @7601 has 3 MA's), (52, 7778), (54, 7787), (57, 7811), (65, 7883), (69, 7907), (85, 8006), (94, 8084), (96, 8096), (98, 8105), (131, 8312), (144, 8330), (183, 8417), (214, 8486), (229, 8498), (241, 8546), (261, 8576), (271, 8591), (297, 8645), (306, 8675), (307, 8678),

(315, 8699), (325, 8729), (334, 8756), (342, 8789), (352, 8828), (359, 8855), (360, 8861), (364, 8876), (367, 8891), (383, 8918), (384, 8921), (393, 8942), (397, 8954), (399, 8960), (412, 9008), (423, 9044), (435, 9092), (443, 9119), (446, 9140), (464, 9203), (468, 9227), (478, 9284), (500, 9389), (502, 9410), (509, 9464), (513, 9485), (519, 9506),

Gene: Trackstar_11 Start: 7648, Stop: 9753, Start Num: 22

Candidate Starts for Trackstar_11:

(Start: 22 @7648 has 124 MA's), (Start: 26 @7669 has 3 MA's), (52, 7846), (54, 7855), (57, 7879), (65, 7951), (69, 7975), (85, 8074), (90, 8131), (94, 8152), (96, 8164), (98, 8173), (131, 8380), (144, 8398), (183, 8485), (214, 8554), (229, 8566), (241, 8614), (261, 8644), (271, 8659), (297, 8713), (306, 8743), (307, 8746), (315, 8767), (325, 8797), (334, 8824), (342, 8857), (352, 8896), (359, 8923), (360, 8929), (364, 8944), (367, 8959), (384, 8989), (393, 9010), (397, 9022), (399, 9028), (412, 9076), (423, 9112), (435, 9160), (443, 9187), (446, 9208), (464, 9271), (468, 9295), (478, 9352), (500, 9457), (502, 9478), (509, 9532), (513, 9553), (519, 9574),

Gene: Trireme_12 Start: 7646, Stop: 9751, Start Num: 22

Candidate Starts for Trireme_12:

(Start: 22 @7646 has 124 MA's), (Start: 26 @7667 has 3 MA's), (52, 7844), (54, 7853), (57, 7877), (65, 7949), (69, 7973), (85, 8072), (90, 8129), (94, 8150), (96, 8162), (98, 8171), (131, 8378), (144, 8396), (183, 8483), (214, 8552), (229, 8564), (241, 8612), (261, 8642), (271, 8657), (297, 8711), (306, 8741), (307, 8744), (315, 8765), (325, 8795), (334, 8822), (342, 8855), (352, 8894), (359, 8921), (360, 8927), (364, 8942), (367, 8957), (384, 8987), (393, 9008), (397, 9020), (399, 9026), (412, 9074), (423, 9110), (435, 9158), (443, 9185), (446, 9206), (464, 9269), (468, 9293), (478, 9350), (500, 9455), (502, 9476), (509, 9530), (513, 9551), (519, 9572),

Gene: Tuck_17 Start: 11773, Stop: 14250, Start Num: 11

Candidate Starts for Tuck_17:

(Start: 11 @11773 has 52 MA's), (35, 11929), (36, 11938), (50, 12019), (58, 12079), (63, 12124), (72, 12196), (85, 12280), (88, 12310), (97, 12364), (101, 12394), (110, 12451), (113, 12475), (121, 12535), (122, 12541), (129, 12565), (145, 12643), (155, 12676), (186, 12811), (198, 12853), (220, 12952), (235, 13024), (249, 13063), (257, 13090), (272, 13138), (283, 13171), (303, 13234), (319, 13291), (333, 13333), (337, 13348), (358, 13426), (395, 13549), (420, 13597), (425, 13612), (446, 13705), (450, 13723), (453, 13735), (479, 13855), (480, 13858), (501, 13969), (507, 14008), (524, 14098),

Gene: Turab_16 Start: 10733, Stop: 13057, Start Num: 11

Candidate Starts for Turab_16:

(Start: 11 @10733 has 52 MA's), (35, 10889), (36, 10898), (39, 10913), (50, 10979), (58, 11039), (63, 11084), (72, 11156), (84, 11237), (85, 11240), (88, 11270), (97, 11324), (101, 11354), (110, 11411), (113, 11435), (121, 11495), (122, 11501), (198, 11720), (234, 11816), (246, 11849), (272, 11936), (289, 11990), (303, 12032), (313, 12071), (333, 12131), (370, 12272), (422, 12401), (425, 12410), (450, 12521), (479, 12653), (480, 12656), (488, 12689), (501, 12767), (507, 12806), (518, 12866), (536, 12956),

Gene: TurboVicky_19 Start: 13340, Stop: 15328, Start Num: 19

Candidate Starts for TurboVicky_19:

(Start: 19 @13340 has 16 MA's), (25, 13379), (43, 13490), (48, 13505), (49, 13517), (72, 13709), (75, 13733), (82, 13775), (102, 13916), (111, 13982), (127, 14078), (152, 14189), (180, 14291), (193, 14315), (210, 14384), (217, 14417), (282, 14582), (342, 14630), (345, 14642), (350, 14660), (384, 14762), (388, 14774), (390, 14780), (492, 15035), (503, 15101), (510, 15161), (543, 15302),

Gene: Tutumahutu_16 Start: 10781, Stop: 13096, Start Num: 11

Candidate Starts for Tutumahutu_16:

(Start: 11 @10781 has 52 MA's), (35, 10937), (36, 10946), (50, 11027), (51, 11039), (58, 11087), (59, 11090), (63, 11132), (72, 11204), (84, 11285), (85, 11288), (88, 11318), (97, 11372), (101, 11402), (110, 11459), (113, 11483), (121, 11543), (198, 11768), (234, 11864), (254, 11927), (257, 11936), (272, 11984), (275, 11993), (279, 12005), (289, 12038), (303, 12080), (313, 12119), (333, 12179), (370, 12320), (395, 12395), (406, 12407), (422, 12449), (425, 12458), (431, 12482), (446, 12551), (450, 12569), (453, 12581), (476, 12680), (479, 12701), (480, 12704), (488, 12737), (501, 12815), (507, 12854), (518, 12914), (524, 12944), (536, 12995), (543, 13040), (549, 13085),

Gene: Tweety19_16 Start: 9837, Stop: 12116, Start Num: 11

Candidate Starts for Tweety19_16:

(Start: 11 @9837 has 52 MA's), (48, 10041), (52, 10092), (66, 10194), (74, 10260), (81, 10308), (83, 10314), (93, 10401), (95, 10410), (102, 10452), (108, 10497), (123, 10599), (128, 10617), (162, 10746), (172, 10761), (191, 10803), (199, 10824), (204, 10839), (229, 10950), (253, 11022), (255, 11031), (258, 11040), (262, 11052), (274, 11097), (276, 11103), (284, 11118), (290, 11139), (304, 11184), (327, 11262), (348, 11337), (352, 11355), (413, 11502), (442, 11613), (470, 11676), (475, 11697), (478, 11724), (482, 11739), (500, 11829), (504, 11859), (515, 11925), (542, 12051), (547, 12090),

Gene: Typher_21 Start: 13470, Stop: 15458, Start Num: 19

Candidate Starts for Typher_21:

(Start: 19 @13470 has 16 MA's), (25, 13509), (43, 13620), (48, 13635), (49, 13647), (72, 13839), (75, 13863), (82, 13905), (102, 14046), (111, 14112), (127, 14208), (152, 14319), (180, 14421), (193, 14445), (210, 14514), (217, 14547), (282, 14712), (304, 14745), (342, 14760), (345, 14772), (350, 14790), (388, 14904), (390, 14910), (492, 15165), (503, 15231), (510, 15291), (543, 15432),

Gene: Upsilon_12 Start: 7615, Stop: 9720, Start Num: 22

Candidate Starts for Upsilon_12:

(Start: 22 @7615 has 124 MA's), (Start: 26 @7636 has 3 MA's), (52, 7813), (54, 7822), (57, 7846), (65, 7918), (69, 7942), (85, 8041), (90, 8098), (94, 8119), (96, 8131), (98, 8140), (131, 8347), (144, 8365), (183, 8452), (214, 8521), (229, 8533), (241, 8581), (261, 8611), (271, 8626), (297, 8680), (306, 8710), (307, 8713), (315, 8734), (325, 8764), (334, 8791), (342, 8824), (352, 8863), (359, 8890), (360, 8896), (364, 8911), (367, 8926), (384, 8956), (393, 8977), (397, 8989), (399, 8995), (412, 9043), (423, 9079), (435, 9127), (443, 9154), (446, 9175), (464, 9238), (468, 9262), (478, 9319), (500, 9424), (502, 9445), (505, 9457), (509, 9499), (513, 9520), (519, 9541),

Gene: Urla_14 Start: 9754, Stop: 12303, Start Num: 12

Candidate Starts for Urla_14:

(Start: 12 @9754 has 83 MA's), (32, 9883), (37, 9919), (54, 10027), (55, 10042), (75, 10189), (76, 10210), (91, 10306), (104, 10396), (139, 10600), (158, 10660), (161, 10669), (232, 10996), (248, 11050), (250, 11056), (255, 11074), (266, 11113), (281, 11161), (299, 11224), (311, 11278), (319, 11302), (321, 11308), (334, 11347), (337, 11359), (341, 11377), (342, 11380), (343, 11386), (344, 11389), (349, 11407), (357, 11440), (362, 11458), (366, 11479), (369, 11488), (371, 11497), (380, 11530), (381, 11533), (383, 11542), (384, 11545), (389, 11560), (412, 11644), (426, 11686), (450, 11794), (453, 11806), (466, 11851), (467, 11860), (479, 11926), (480, 11929), (491, 11983), (497, 12022), (506, 12070), (507, 12079), (509, 12103), (511, 12115), (526, 12172), (527, 12178), (542, 12244), (548, 12286),

Gene: UtzChips_14 Start: 9915, Stop: 12263, Start Num: 17

Candidate Starts for UtzChips_14:

(Start: 17 @9915 has 7 MA's), (44, 10098), (57, 10194), (71, 10302), (78, 10362), (108, 10557), (117, 10620), (136, 10704), (144, 10716), (145, 10719), (159, 10770), (172, 10821), (188, 10908), (211, 10968), (217, 10992), (238, 11073), (260, 11133), (278, 11154), (299, 11214), (306, 11235), (310, 11244), (327, 11295), (350, 11382), (352, 11391), (385, 11487), (387, 11493), (399, 11526), (427,

11622), (435, 11661), (468, 11799), (479, 11862), (501, 11973), (519, 12078), (526, 12114),

Gene: VResidence_16 Start: 10828, Stop: 13143, Start Num: 16

Candidate Starts for VResidence_16:

(Start: 16 @10828 has 11 MA's), (20, 10861), (28, 10915), (37, 10984), (57, 11116), (61, 11143), (71, 11224), (76, 11275), (78, 11284), (90, 11368), (108, 11479), (115, 11530), (132, 11620), (144, 11644), (154, 11671), (177, 11764), (230, 11956), (236, 11983), (251, 12016), (261, 12049), (279, 12067), (281, 12073), (298, 12115), (300, 12124), (304, 12136), (324, 12190), (332, 12214), (344, 12256), (346, 12262), (358, 12310), (369, 12355), (380, 12373), (383, 12385), (400, 12430), (418, 12496), (421, 12505), (477, 12730), (479, 12748), (480, 12751), (494, 12817), (501, 12862), (504, 12880), (507, 12901), (529, 13012), (540, 13078),

Gene: Vallejo_18 Start: 12556, Stop: 15117, Start Num: 12

Candidate Starts for Vallejo_18:

(8, 12535), (Start: 12 @12556 has 83 MA's), (21, 12604), (24, 12637), (32, 12685), (35, 12709), (37, 12721), (49, 12781), (54, 12829), (55, 12844), (56, 12850), (73, 12970), (76, 13012), (91, 13108), (92, 13111), (97, 13141), (103, 13195), (104, 13198), (128, 13336), (131, 13357), (134, 13381), (139, 13402), (144, 13411), (158, 13462), (163, 13480), (202, 13666), (232, 13810), (243, 13843), (250, 13870), (255, 13888), (257, 13894), (264, 13918), (266, 13927), (281, 13975), (289, 14002), (290, 14005), (296, 14026), (298, 14032), (299, 14038), (310, 14089), (315, 14104), (319, 14116), (321, 14122), (322, 14125), (325, 14134), (334, 14161), (337, 14173), (339, 14182), (342, 14194), (343, 14200), (349, 14221), (357, 14254), (366, 14293), (380, 14344), (381, 14347), (383, 14356), (384, 14359), (389, 14374), (414, 14464), (426, 14500), (450, 14608), (463, 14644), (479, 14740), (480, 14743), (491, 14797), (497, 14836), (506, 14884), (507, 14893), (509, 14917), (512, 14935), (526, 14986), (534, 15010), (536, 15028), (542, 15058),

Gene: Vanisius_12 Start: 7552, Stop: 9657, Start Num: 22

Candidate Starts for Vanisius_12:

(Start: 22 @7552 has 124 MA's), (Start: 26 @7573 has 3 MA's), (52, 7750), (54, 7759), (57, 7783), (65, 7855), (69, 7879), (70, 7885), (90, 8035), (94, 8056), (96, 8068), (98, 8077), (131, 8284), (144, 8302), (183, 8389), (214, 8458), (229, 8470), (241, 8518), (261, 8548), (271, 8563), (288, 8599), (299, 8626), (306, 8647), (315, 8671), (323, 8695), (325, 8701), (334, 8728), (342, 8761), (352, 8800), (359, 8827), (364, 8848), (367, 8863), (383, 8890), (384, 8893), (393, 8914), (397, 8926), (399, 8932), (412, 8980), (433, 9055), (435, 9064), (443, 9091), (446, 9112), (464, 9175), (468, 9199), (478, 9256), (500, 9361), (502, 9382), (505, 9394), (509, 9436), (513, 9457), (519, 9478),

Gene: VitulaEligans_12 Start: 7636, Stop: 9741, Start Num: 22

Candidate Starts for VitulaEligans_12:

(Start: 22 @7636 has 124 MA's), (Start: 26 @7657 has 3 MA's), (52, 7834), (54, 7843), (57, 7867), (65, 7939), (69, 7963), (70, 7969), (90, 8119), (94, 8140), (96, 8152), (98, 8161), (131, 8368), (144, 8386), (183, 8473), (214, 8542), (229, 8554), (241, 8602), (261, 8632), (271, 8647), (299, 8710), (306, 8731), (315, 8755), (323, 8779), (325, 8785), (334, 8812), (342, 8845), (352, 8884), (359, 8911), (364, 8932), (367, 8947), (383, 8974), (384, 8977), (393, 8998), (397, 9010), (399, 9016), (412, 9064), (423, 9100), (433, 9139), (435, 9148), (443, 9175), (446, 9196), (464, 9259), (468, 9283), (478, 9340), (500, 9445), (502, 9466), (505, 9478), (509, 9520), (513, 9541), (519, 9562), (543, 9691),

Gene: VroomVroom_15 Start: 8983, Stop: 11226, Start Num: 11

Candidate Starts for VroomVroom_15:

(Start: 11 @8983 has 52 MA's), (27, 9070), (39, 9151), (43, 9172), (52, 9238), (67, 9343), (81, 9454), (83, 9460), (95, 9556), (102, 9598), (123, 9745), (162, 9880), (174, 9907), (196, 9940), (216, 10024), (225, 10063), (234, 10102), (246, 10126), (253, 10150), (255, 10159), (261, 10177), (268, 10204), (272, 10219), (286, 10255), (290, 10267), (304, 10312), (305, 10318), (323, 10378), (330, 10396), (336, 10420), (347, 10462), (348, 10465), (355, 10495), (382, 10603), (479, 10858), (483, 10870),

(497, 10954), (500, 10960), (504, 10990),

Gene: Vulture_14 Start: 9738, Stop: 12296, Start Num: 12

Candidate Starts for Vulture_14:

(Start: 12 @9738 has 83 MA's), (15, 9747), (Start: 19 @9777 has 16 MA's), (32, 9867), (49, 9963), (55, 10026), (76, 10194), (91, 10290), (92, 10293), (94, 10308), (106, 10395), (116, 10461), (146, 10599), (147, 10602), (167, 10686), (232, 10992), (250, 11052), (255, 11070), (257, 11076), (266, 11109), (270, 11121), (281, 11157), (289, 11184), (296, 11208), (298, 11214), (310, 11271), (318, 11295), (321, 11304), (326, 11319), (334, 11343), (337, 11355), (342, 11376), (343, 11382), (349, 11403), (355, 11427), (357, 11436), (362, 11454), (366, 11475), (368, 11481), (371, 11493), (380, 11526), (381, 11529), (384, 11541), (389, 11556), (390, 11559), (414, 11646), (438, 11736), (439, 11739), (450, 11790), (466, 11847), (467, 11856), (471, 11868), (479, 11922), (480, 11925), (491, 11979), (497, 12018), (506, 12066), (507, 12075), (509, 12099), (511, 12111), (536, 12207), (542, 12237),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 3

Candidate Starts for Waltz_64:

(2, 34781), (Start: 3 @34787 has 7 MA's), (6, 34805), (7, 34808), (13, 34838), (24, 34916), (40, 35018), (43, 35030), (52, 35099), (81, 35315), (82, 35318), (83, 35321), (93, 35408), (102, 35459), (108, 35504), (112, 35531), (123, 35606), (128, 35624), (133, 35657), (143, 35702), (147, 35720), (163, 35786), (164, 35789), (172, 35828), (179, 35861), (182, 35882), (185, 35897), (195, 35939), (203, 35969), (209, 35993), (213, 36017), (214, 36023), (218, 36038), (219, 36047), (244, 36140), (251, 36161), (262, 36197), (271, 36230), (286, 36281), (296, 36311), (313, 36374), (331, 36422), (336, 36443), (341, 36461), (344, 36473), (347, 36482), (351, 36497), (356, 36518), (366, 36563), (369, 36572), (374, 36590), (388, 36641), (419, 36671), (422, 36680), (440, 36749), (452, 36806), (493, 36938), (496, 36956), (504, 37010), (505, 37013), (510, 37064), (511, 37067), (527, 37133), (531, 37145), (546, 37244), (550, 37265), (551, 37307), (554, 37397), (555, 37418), (556, 37442), (557, 37451), (558, 37472), (559, 37505), (560, 37514), (564, 37607), (566, 37652), (569, 37718), (571, 37775), (572, 37841),

Gene: Warda_16 Start: 10726, Stop: 13041, Start Num: 11

Candidate Starts for Warda_16:

(Start: 11 @10726 has 52 MA's), (35, 10882), (36, 10891), (50, 10972), (51, 10984), (58, 11032), (59, 11035), (63, 11077), (72, 11149), (84, 11230), (85, 11233), (88, 11263), (97, 11317), (101, 11347), (110, 11404), (113, 11428), (121, 11488), (198, 11713), (234, 11809), (254, 11872), (257, 11881), (272, 11929), (279, 11950), (289, 11983), (303, 12025), (313, 12064), (333, 12124), (370, 12265), (422, 12394), (425, 12403), (431, 12427), (438, 12460), (446, 12496), (450, 12514), (476, 12625), (479, 12646), (480, 12649), (488, 12682), (501, 12760), (507, 12799), (518, 12859), (524, 12889), (536, 12940), (543, 12985), (549, 13030),

Gene: Wawa_18 Start: 12593, Stop: 15154, Start Num: 12

Candidate Starts for Wawa_18:

(8, 12572), (Start: 12 @12593 has 83 MA's), (21, 12641), (24, 12674), (32, 12722), (35, 12746), (37, 12758), (49, 12818), (54, 12866), (55, 12881), (56, 12887), (73, 13007), (76, 13049), (91, 13145), (92, 13148), (97, 13178), (103, 13232), (128, 13373), (131, 13394), (134, 13418), (139, 13439), (144, 13448), (158, 13499), (163, 13517), (202, 13703), (232, 13847), (243, 13880), (250, 13907), (255, 13925), (257, 13931), (264, 13955), (266, 13964), (281, 14012), (289, 14039), (290, 14042), (296, 14063), (298, 14069), (299, 14075), (310, 14126), (315, 14141), (319, 14153), (321, 14159), (322, 14162), (325, 14171), (334, 14198), (337, 14210), (339, 14219), (342, 14231), (343, 14237), (349, 14258), (357, 14291), (366, 14330), (380, 14381), (381, 14384), (383, 14393), (384, 14396), (389, 14411), (414, 14501), (426, 14537), (450, 14645), (463, 14681), (479, 14777), (480, 14780), (491, 14834), (497, 14873), (506, 14921), (507, 14930), (509, 14954), (512, 14972), (526, 15023), (534, 15047), (536, 15065), (542, 15095),

Gene: Wayne_18 Start: 12693, Stop: 15248, Start Num: 12

Candidate Starts for Wayne_18:

(8, 12672), (Start: 12 @12693 has 83 MA's), (21, 12741), (32, 12822), (35, 12846), (49, 12918), (54, 12966), (55, 12981), (56, 12987), (76, 13149), (86, 13194), (91, 13245), (92, 13248), (97, 13278), (116, 13416), (139, 13539), (158, 13599), (163, 13617), (166, 13632), (176, 13683), (226, 13914), (244, 13983), (250, 14007), (255, 14025), (257, 14031), (272, 14085), (276, 14097), (283, 14118), (290, 14142), (311, 14229), (319, 14253), (321, 14259), (322, 14262), (326, 14274), (333, 14295), (334, 14298), (335, 14304), (337, 14310), (341, 14328), (342, 14331), (343, 14337), (355, 14382), (357, 14391), (362, 14409), (366, 14430), (369, 14439), (371, 14448), (380, 14481), (381, 14484), (383, 14493), (384, 14496), (400, 14547), (426, 14637), (450, 14745), (453, 14757), (462, 14778), (463, 14781), (479, 14877), (480, 14880), (491, 14934), (497, 14973), (507, 15030), (512, 15072), (526, 15120), (536, 15162), (542, 15192),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 3

Candidate Starts for Wheelbite_63:

(Start: 3 @36504 has 7 MA's), (7, 36525), (13, 36555), (Start: 14 @36558 has 1 MA's), (31, 36663), (45, 36756), (52, 36816), (79, 37026), (81, 37032), (82, 37035), (83, 37038), (93, 37125), (102, 37176), (107, 37218), (108, 37221), (119, 37305), (123, 37323), (160, 37473), (192, 37566), (218, 37665), (242, 37761), (257, 37809), (258, 37812), (262, 37824), (267, 37845), (271, 37857), (286, 37908), (313, 38001), (318, 38016), (351, 38124), (353, 38136), (356, 38145), (363, 38175), (369, 38199), (373, 38214), (388, 38268), (422, 38307), (452, 38433), (488, 38538), (498, 38604), (505, 38640), (507, 38658), (509, 38682), (511, 38694), (514, 38703), (517, 38715), (530, 38769), (544, 38850), (546, 38871), (550, 38892), (551, 38934), (552, 38937), (555, 39045), (557, 39078), (558, 39099), (560, 39141), (561, 39147), (562, 39204), (564, 39234), (565, 39243), (567, 39342), (568, 39348), (571, 39417), (573, 39504),

Gene: Wildwest_17 Start: 11664, Stop: 13910, Start Num: 11

Candidate Starts for Wildwest_17:

(Start: 11 @11664 has 52 MA's), (35, 11820), (36, 11829), (41, 11856), (50, 11910), (58, 11970), (72, 12087), (84, 12168), (85, 12171), (88, 12201), (97, 12255), (101, 12285), (110, 12342), (113, 12366), (118, 12408), (121, 12426), (198, 12651), (242, 12771), (257, 12819), (272, 12867), (275, 12876), (303, 12963), (313, 13002), (319, 13020), (333, 13062), (360, 13164), (371, 13209), (376, 13224), (388, 13269), (419, 13323), (422, 13332), (429, 13356), (439, 13380), (462, 13419), (476, 13497), (479, 13518), (480, 13521), (490, 13569), (501, 13632), (504, 13650), (507, 13671), (541, 13845),

Gene: Witch_12 Start: 7541, Stop: 9646, Start Num: 22

Candidate Starts for Witch_12:

(Start: 22 @7541 has 124 MA's), (Start: 26 @7562 has 3 MA's), (52, 7739), (54, 7748), (57, 7772), (65, 7844), (69, 7868), (70, 7874), (90, 8024), (94, 8045), (96, 8057), (98, 8066), (131, 8273), (144, 8291), (183, 8378), (214, 8447), (229, 8459), (241, 8507), (261, 8537), (271, 8552), (288, 8588), (299, 8615), (306, 8636), (315, 8660), (323, 8684), (325, 8690), (334, 8717), (342, 8750), (352, 8789), (359, 8816), (364, 8837), (367, 8852), (383, 8879), (384, 8882), (393, 8903), (397, 8915), (399, 8921), (412, 8969), (423, 9005), (435, 9053), (443, 9080), (446, 9101), (464, 9164), (468, 9188), (478, 9245), (500, 9350), (502, 9371), (505, 9383), (509, 9425), (513, 9446), (519, 9467), (543, 9596),

Gene: Wolfpack_12 Start: 7533, Stop: 9638, Start Num: 22

Candidate Starts for Wolfpack_12:

(Start: 22 @7533 has 124 MA's), (Start: 26 @7554 has 3 MA's), (52, 7731), (54, 7740), (57, 7764), (65, 7836), (69, 7860), (70, 7866), (85, 7959), (90, 8016), (94, 8037), (96, 8049), (98, 8058), (131, 8265), (144, 8283), (183, 8370), (214, 8439), (229, 8451), (241, 8499), (261, 8529), (271, 8544), (288, 8580), (299, 8607), (307, 8631), (315, 8652), (323, 8676), (325, 8682), (334, 8709), (342, 8742), (352, 8781), (359, 8808), (364, 8829), (367, 8844), (383, 8871), (384, 8874), (397, 8907), (399, 8913), (412, 8961), (423, 8997), (435, 9045), (443, 9072), (446, 9093), (464, 9156), (468, 9180), (478, 9237), (500, 9342),

(502, 9363), (505, 9375), (509, 9417), (513, 9438), (519, 9459), (543, 9588),

Gene: WonderBoy_14 Start: 9710, Stop: 12271, Start Num: 12

Candidate Starts for WonderBoy_14:

(8, 9689), (Start: 12 @9710 has 83 MA's), (21, 9758), (32, 9839), (35, 9863), (49, 9935), (54, 9983), (55, 9998), (56, 10004), (76, 10166), (91, 10262), (92, 10265), (97, 10295), (116, 10433), (131, 10511), (139, 10556), (144, 10565), (158, 10616), (163, 10634), (165, 10646), (170, 10670), (216, 10886), (235, 10976), (243, 10997), (250, 11024), (255, 11042), (257, 11048), (264, 11072), (266, 11081), (281, 11129), (289, 11156), (298, 11186), (310, 11243), (315, 11258), (319, 11270), (321, 11276), (322, 11279), (325, 11288), (334, 11315), (337, 11327), (339, 11336), (342, 11348), (343, 11354), (350, 11378), (355, 11399), (357, 11408), (361, 11423), (366, 11447), (380, 11498), (381, 11501), (384, 11513), (390, 11531), (414, 11618), (426, 11654), (450, 11762), (453, 11774), (462, 11795), (463, 11798), (466, 11819), (479, 11894), (480, 11897), (488, 11930), (491, 11951), (497, 11990), (501, 12008), (506, 12038), (507, 12047), (527, 12146), (542, 12212),

Gene: Yami_12 Start: 7552, Stop: 9636, Start Num: 26

Candidate Starts for Yami_12:

(Start: 22 @7531 has 124 MA's), (Start: 26 @7552 has 3 MA's), (52, 7729), (54, 7738), (57, 7762), (65, 7834), (69, 7858), (85, 7957), (90, 8014), (94, 8035), (96, 8047), (98, 8056), (131, 8263), (144, 8281), (183, 8368), (214, 8437), (229, 8449), (241, 8497), (261, 8527), (271, 8542), (306, 8626), (307, 8629), (315, 8650), (325, 8680), (334, 8707), (342, 8740), (352, 8779), (359, 8806), (360, 8812), (364, 8827), (367, 8842), (384, 8872), (393, 8893), (397, 8905), (399, 8911), (412, 8959), (423, 8995), (435, 9043), (443, 9070), (446, 9091), (464, 9154), (468, 9178), (478, 9235), (500, 9340), (502, 9361), (509, 9415), (513, 9436), (519, 9457),

Gene: Yang_16 Start: 10824, Stop: 13148, Start Num: 11

Candidate Starts for Yang_16:

(Start: 11 @10824 has 52 MA's), (38, 10998), (42, 11022), (50, 11070), (58, 11130), (72, 11247), (84, 11328), (85, 11331), (88, 11361), (101, 11445), (110, 11502), (113, 11526), (121, 11586), (122, 11592), (197, 11808), (198, 11811), (257, 11979), (272, 12027), (279, 12048), (289, 12081), (303, 12123), (313, 12162), (317, 12174), (333, 12222), (358, 12315), (376, 12384), (418, 12480), (425, 12501), (446, 12594), (450, 12612), (479, 12744), (480, 12747), (501, 12858), (507, 12897),

Gene: Yasuo_12 Start: 7537, Stop: 9642, Start Num: 22

Candidate Starts for Yasuo_12:

(Start: 22 @7537 has 124 MA's), (Start: 26 @7558 has 3 MA's), (52, 7735), (54, 7744), (57, 7768), (65, 7840), (69, 7864), (70, 7870), (90, 8020), (94, 8041), (96, 8053), (98, 8062), (131, 8269), (144, 8287), (183, 8374), (214, 8443), (229, 8455), (241, 8503), (261, 8533), (271, 8548), (288, 8584), (299, 8611), (306, 8632), (315, 8656), (323, 8680), (325, 8686), (334, 8713), (342, 8746), (352, 8785), (359, 8812), (364, 8833), (367, 8848), (383, 8875), (384, 8878), (393, 8899), (397, 8911), (399, 8917), (412, 8965), (433, 9040), (435, 9049), (443, 9076), (446, 9097), (464, 9160), (468, 9184), (478, 9241), (500, 9346), (502, 9367), (505, 9379), (509, 9421), (513, 9442), (519, 9463),

Gene: YertPhresh_12 Start: 7540, Stop: 9645, Start Num: 22

Candidate Starts for YertPhresh_12:

(Start: 22 @7540 has 124 MA's), (Start: 26 @7561 has 3 MA's), (52, 7738), (54, 7747), (57, 7771), (65, 7843), (69, 7867), (70, 7873), (90, 8023), (94, 8044), (96, 8056), (98, 8065), (131, 8272), (144, 8290), (183, 8377), (214, 8446), (229, 8458), (241, 8506), (261, 8536), (271, 8551), (288, 8587), (299, 8614), (306, 8635), (315, 8659), (323, 8683), (325, 8689), (334, 8716), (342, 8749), (352, 8788), (359, 8815), (364, 8836), (367, 8851), (383, 8878), (384, 8881), (393, 8902), (397, 8914), (399, 8920), (412, 8968), (423, 9004), (435, 9052), (443, 9079), (446, 9100), (464, 9163), (468, 9187), (478, 9244), (500, 9349), (502, 9370), (505, 9382), (509, 9424), (513, 9445), (519, 9466), (543, 9595),

Gene: YesChef_16 Start: 10781, Stop: 13096, Start Num: 11

Candidate Starts for YesChef_16:

(Start: 11 @10781 has 52 MA's), (35, 10937), (36, 10946), (50, 11027), (51, 11039), (58, 11087), (59, 11090), (63, 11132), (72, 11204), (84, 11285), (85, 11288), (88, 11318), (97, 11372), (101, 11402), (110, 11459), (113, 11483), (121, 11543), (198, 11768), (234, 11864), (254, 11927), (257, 11936), (272, 11984), (275, 11993), (279, 12005), (289, 12038), (303, 12080), (313, 12119), (333, 12179), (370, 12320), (395, 12395), (406, 12407), (422, 12449), (425, 12458), (431, 12482), (446, 12551), (450, 12569), (476, 12680), (479, 12701), (480, 12704), (488, 12737), (501, 12815), (507, 12854), (518, 12914), (524, 12944), (536, 12995), (543, 13040), (549, 13085),

Gene: Yubaba_12 Start: 7574, Stop: 9679, Start Num: 22

Candidate Starts for Yubaba_12:

(Start: 22 @7574 has 124 MA's), (Start: 26 @7595 has 3 MA's), (52, 7772), (54, 7781), (57, 7805), (65, 7877), (69, 7901), (70, 7907), (90, 8057), (94, 8078), (96, 8090), (98, 8099), (131, 8306), (144, 8324), (183, 8411), (214, 8480), (229, 8492), (241, 8540), (261, 8570), (271, 8585), (288, 8621), (299, 8648), (306, 8669), (315, 8693), (323, 8717), (325, 8723), (334, 8750), (342, 8783), (352, 8822), (359, 8849), (364, 8870), (367, 8885), (383, 8912), (384, 8915), (393, 8936), (397, 8948), (399, 8954), (412, 9002), (423, 9038), (435, 9086), (443, 9113), (446, 9134), (464, 9197), (468, 9221), (478, 9278), (500, 9383), (502, 9404), (505, 9416), (509, 9458), (513, 9479), (519, 9500), (543, 9629),

Gene: Zahlia_12 Start: 7645, Stop: 9750, Start Num: 22

Candidate Starts for Zahlia_12:

(Start: 22 @7645 has 124 MA's), (Start: 26 @7666 has 3 MA's), (52, 7843), (54, 7852), (57, 7876), (65, 7948), (69, 7972), (70, 7978), (90, 8128), (94, 8149), (96, 8161), (98, 8170), (131, 8377), (144, 8395), (183, 8482), (214, 8551), (229, 8563), (241, 8611), (261, 8641), (271, 8656), (288, 8692), (299, 8719), (306, 8740), (315, 8764), (323, 8788), (325, 8794), (334, 8821), (342, 8854), (352, 8893), (359, 8920), (364, 8941), (367, 8956), (383, 8983), (384, 8986), (393, 9007), (397, 9019), (399, 9025), (412, 9073), (433, 9148), (435, 9157), (443, 9184), (446, 9205), (464, 9268), (468, 9292), (478, 9349), (500, 9454), (502, 9475), (505, 9487), (509, 9529), (513, 9550), (519, 9571), (543, 9700),

Gene: Zanella_19 Start: 13343, Stop: 15331, Start Num: 19

Candidate Starts for Zanella_19:

(Start: 19 @13343 has 16 MA's), (25, 13382), (43, 13493), (48, 13508), (49, 13520), (72, 13712), (75, 13736), (102, 13919), (111, 13985), (127, 14081), (131, 14105), (152, 14192), (180, 14294), (193, 14318), (210, 14387), (217, 14420), (282, 14585), (342, 14633), (345, 14645), (350, 14663), (384, 14765), (388, 14777), (390, 14783), (492, 15038), (503, 15104), (510, 15164), (543, 15305),

Gene: Zeta1847_14 Start: 9068, Stop: 11329, Start Num: 14

Candidate Starts for Zeta1847_14:

(Start: 14 @9068 has 1 MA's), (30, 9158), (34, 9203), (39, 9230), (44, 9254), (46, 9260), (57, 9350), (71, 9458), (78, 9518), (108, 9713), (117, 9776), (145, 9875), (148, 9884), (184, 9986), (233, 10118), (240, 10139), (257, 10184), (302, 10283), (315, 10319), (317, 10325), (331, 10364), (343, 10415), (352, 10448), (362, 10487), (379, 10523), (399, 10580), (427, 10673), (428, 10679), (435, 10712), (446, 10760), (479, 10910), (483, 10922), (499, 11006), (533, 11186),

Gene: Zorro_18 Start: 12572, Stop: 15133, Start Num: 12

Candidate Starts for Zorro_18:

(8, 12551), (Start: 12 @12572 has 83 MA's), (21, 12620), (24, 12653), (32, 12701), (35, 12725), (37, 12737), (49, 12797), (54, 12845), (55, 12860), (56, 12866), (73, 12986), (76, 13028), (91, 13124), (92, 13127), (97, 13157), (103, 13211), (128, 13352), (131, 13373), (134, 13397), (139, 13418), (144, 13427), (158, 13478), (163, 13496), (202, 13682), (232, 13826), (243, 13859), (250, 13886), (255, 13904), (257, 13910), (264, 13934), (266, 13943), (281, 13991), (289, 14018), (290, 14021), (296, 14042), (299, 14054), (310, 14105), (315, 14120), (319, 14132), (322, 14141), (325, 14150), (334,

14177), (337, 14189), (339, 14198), (342, 14210), (343, 14216), (349, 14237), (355, 14261), (357, 14270), (366, 14309), (380, 14360), (381, 14363), (383, 14372), (384, 14375), (389, 14390), (414, 14480), (426, 14516), (450, 14624), (463, 14660), (479, 14756), (480, 14759), (491, 14813), (497, 14852), (506, 14900), (507, 14909), (509, 14933), (512, 14951), (526, 15002), (534, 15026), (536, 15044), (542, 15074),