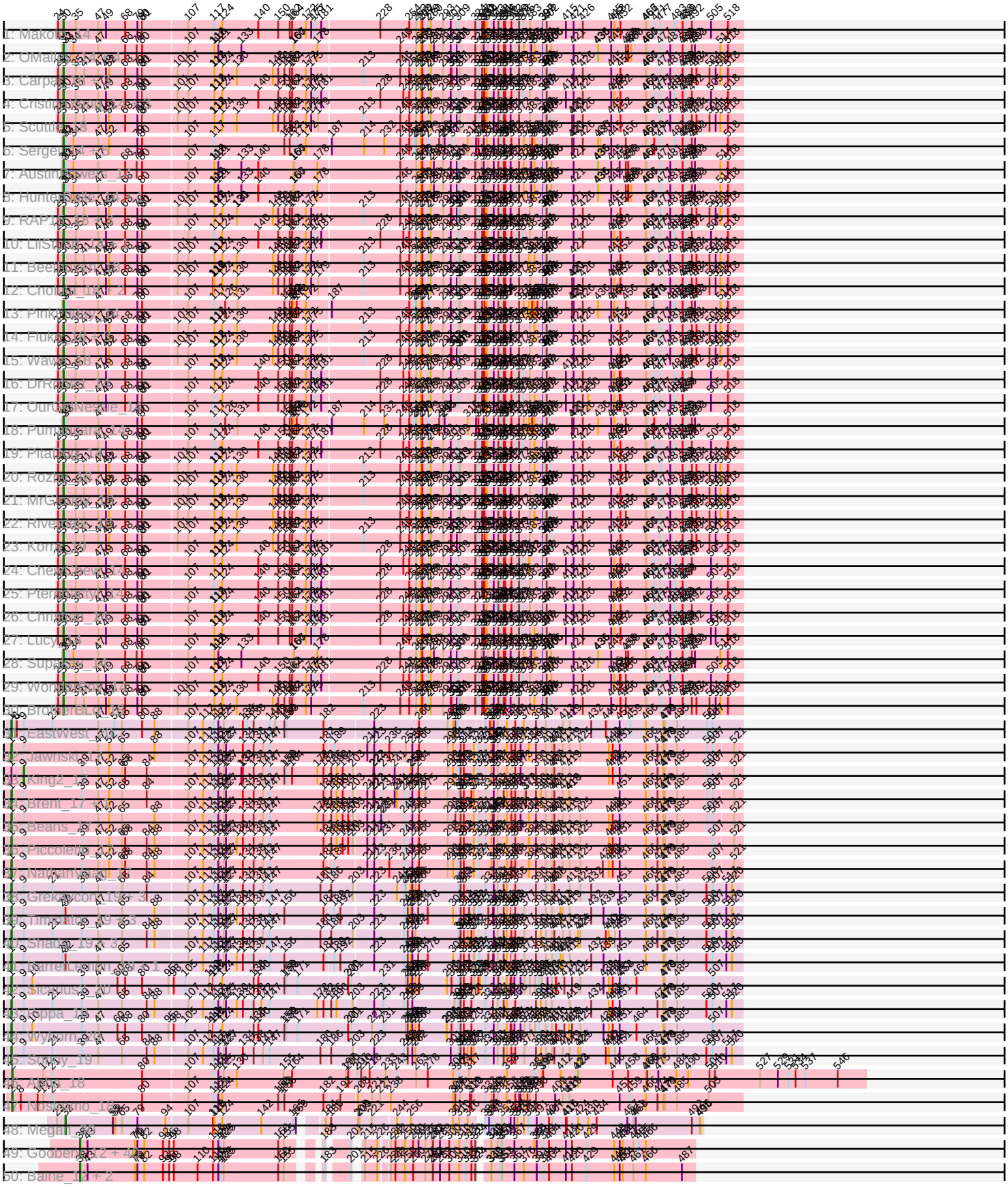
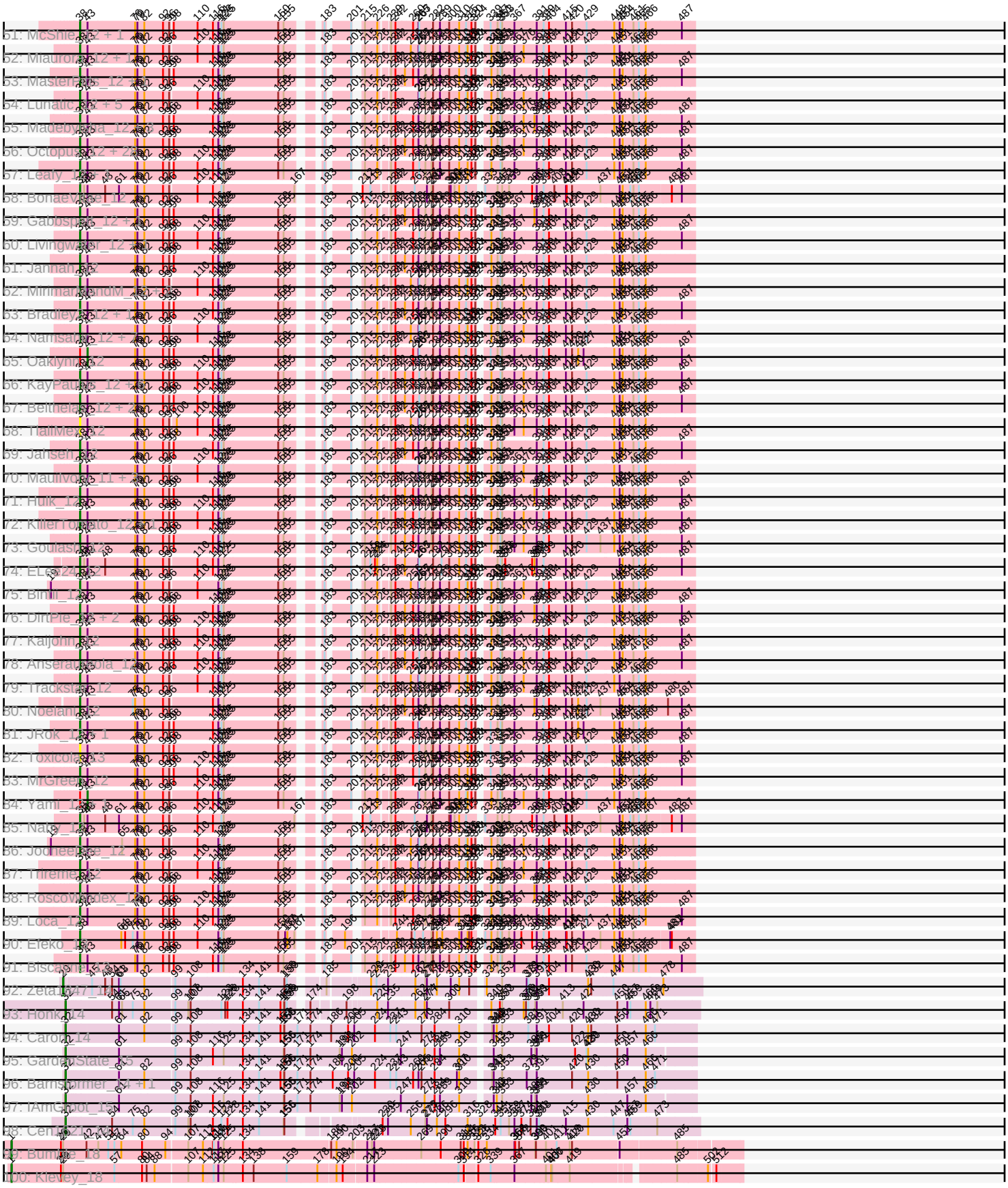
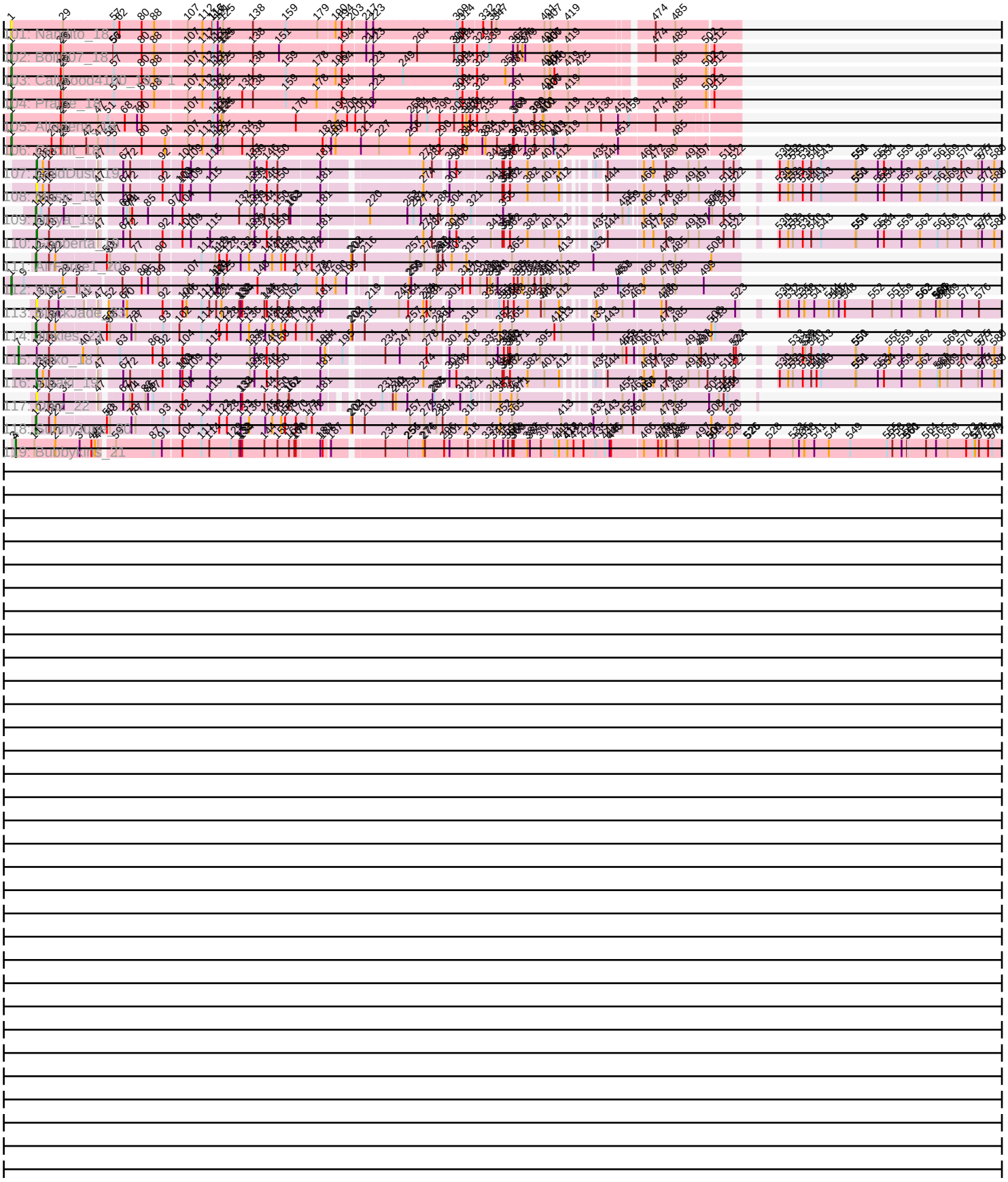
Pham 347200



Pham 347200



Pham 347200



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 347200 Report

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

Pham number 347200 has 267 members, 12 are drafts.

Phages represented in each track:
- Track 1 : Makoto_14
- Track 2 : OMalley_14, Eunoia_14, Aledel_14, Chridison_14, Riovina_14
- Track 3 : Carpal_18, Dino_18, Kalizoi_18, Zorro_18
- Track 4 : CristinaYang_14, Lasagna_14, Nancia_14, Bodacious_14
- Track 5 : Scuttle_18
- Track 6 : Sergei_14, KingBob_14, Daiboju_14, Herb_14, Temper16_14, Maria1952_14
- Track 7 : AustinPowers_14
- Track 8 : HunterDalle_14, Vulture_14
- Track 9 : RAP15_18, Vallejo_18, Jumboset_18, MeganNoll_18
- Track 10 : LilStuart_14, Lennox_14
- Track 11 : Beethoven_18
- Track 12 : Cholula_18, Potatoes_18, Immaculata_18
- Track 13 : PinkFriday_14
- Track 14 : Fluke_18, TattModd_18, Glenn_18, Savage2526_18
- Track 15 : Wawa_18
- Track 16 : DrRobert_14
- Track 17 : OurGirlNessie_14
- Track 18 : Pumancara_14
- Track 19 : PitaDog_14
- Track 20 : Rozby_18
- Track 21 : MrGloopy_18
- Track 22 : Riverdale_18
- Track 23 : Korra_19
- Track 24 : ChewChew_14
- Track 25 : Pterodactyl_14
- Track 26 : Christian_14
- Track 27 : Lucy_14
- Track 28 : Supakev_14
- Track 29 : WonderBoy_14
- Track 30 : BrotherBLo_18
- Track 31 : EastWest_20
- Track 32 : Jawnski_17
- Track 33 : King2_17
- Track 34 : Brent_17, Franzy_17
- Track 35 : Beans_17
- Track 36 : Piccoletto_17

• Track 37 : NathanVaag_17
• Track 38 : Grekaycon_19, BossLady_19, Martha_19, TaeYoung_19
• Track 39 : Timinator_19, GravityBall_19, LeeroyJ_19, StevieBAY_19
• Track 40 : Shade_19, Zartrosa_19, JKerns_19, Jordan_19
• Track 41 : BarretLemon_19, BigDome_19
• Track 42 : Sicarius2_20
• Track 43 : Pippa_19
• Track 44 : Wyborn_20
• Track 45 : Sonny_19
• Track 46 : Abba_18
• Track 47 : Nostromo_18
• Track 48 : Megan_30
• Track 49 : Goobery_12, JaimeB_12, Grayscar_12, BurtonThePup_12, Otwor_12, LionelHutz_12, Burgy_12, Owens_12, Slentz_12, HeadMave_12, Rhysand_12, Danno_12, Tyrellus_12, Ciel_12, NeumannU_12, BinkBonk_12, Josuke_12, SantasSleigh_12, Cheesecake_12, Godfather_12, Luxx_12, Scrunchy_12, Jella_12, Charbie_12, Scamander_12, Maneater_12, Aries55_12, Majesty_12, Sage7_12, Picconator_12, BarBear_12, Vanisius_12, Astro16_12, TeddyBoy_12, Avvas_12, Yasuo_12, LaviMo_12, Eightball_12, Kojax4_12, Rhogar_12, TimoTea_12
• Track 50 : Baine_12, Lola20_12, Cayde6_12
• Track 51 : McShie_12, BrokMonster_12
• Track 52 : Miaurora_12, Stem_12
• Track 53 : MasterPitts_12, DaftyDuck_12
• Track 54 : Lunatic_12, Nobel_12, PuffyCat_12, TinyTruffula_12, Clownery_12, Niffler_12
• Track 55 : Madebyisha_12, Jerky_12, OdetoJoy_12, VitulaEligans_12
• Track 56 : Octopus_12, Sara_12, Alucard_12, YertPhresh_12, EdElric_12, Puddles3_12, Horacetta_12, SeaWolves_12, Erin_12, PaoPu_12, Aztec_12, Danimal_12, Gardevoir_12, Dooby_12, Duggle_12, Chatham_12, Picnic_12, GoldenBlanche_12, LemonPepper_12, ManAs_12, KyriosFaba_12, Pondwater_12, Sachet_12, JoBros_12, Minima_12, Dongwon_12, Witch_12, Myram_12, Yubaba_12
• Track 57 : Leafy_12, Abelaine_13
• Track 58 : BonaeVitae_12
• Track 59 : Gabbspett_12, Hernandez44_12
• Track 60 : Livingwater_12, Quaker_12
• Track 61 : Jannah_12
• Track 62 : MirimarMandM_12, Upsilon_12, PoRanda_12
• Track 63 : Bradley2_12, Gillker_12
• Track 64 : Namsahir_12, Rira_12, Bullzi2019_12, IzzyPants24_12, TomBrady12_12, Snuffles_13, Publix_12, Slizam_12
• Track 65 : Oaklynn_12
• Track 66 : KayPaulus_12, MelBee03_12, Wolfpack_12, Sippinontea_12, Douggie_12, Bodhi17_12, Kevanna_12
• Track 67 : Belthelas_12, Concrete_12, BoomRoasted_12
• Track 68 : TlaliMex_12
• Track 69 : Jahseh_12
• Track 70 : MauiIvory_11, Ekko14_12, HarperAnne_12, Elspeth_12
• Track 71 : Hulk_12
• Track 72 : KillerTomato_12, Bri160_12
• Track 73 : Goulash_12
• Track 74 : ELee24_12
• Track 75 : Bintii_12
• Track 76 : DirtPie_12, Zahlia_12, Marichuy_12

• Track 77 : Kaijohn_12
• Track 78 : Anseraureola_12
• Track 79 : Trackstar_12
• Track 80 : Noelani_12
• Track 81 : JRok_12, Azizam_12
• Track 82 : Toxicola_13
• Track 83 : MrGreen_12
• Track 84 : Yami_12, Cazares_12
• Track 85 : Naby_12
• Track 86 : JooneeDee_12
• Track 87 : Trireme_12
• Track 88 : RoscoWindex_12
• Track 89 : Loca_12
• Track 90 : Efeko_13
• Track 91 : Biscayne_12
• Track 92 : Zeta1847_14
• Track 93 : Honk_14
• Track 94 : Caron_14
• Track 95 : GardenState_15
• Track 96 : Barnstormer_14, UtzChips_14
• Track 97 : IAmGroot_15
• Track 98 : Cen1621_14
• Track 99 : Bumble_18
• Track 100 : Klevey_18
• Track 101 : Nandito_18
• Track 102 : Bolt007_18
• Track 103 : CalWood4100_19, Lilmac1015_19
• Track 104 : Prairie_18
• Track 105 : Altadena_18
• Track 106 : Circuit_18
• Track 107 : GoldDust_19
• Track 108 : Music_19
• Track 109 : Divya_19
• Track 110 : Gooberta_19
• Track 111 : AirForce1_20
• Track 112 : Vitus_19
• Track 113 : BlackJade_23
• Track 114 : Jinkies_21
• Track 115 : Hirko_18
• Track 116 : Vibaki_19
• Track 117 : Orkz_22
• Track 118 : SunnyJune_20
• Track 119 : Bubbykins_21

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

The start number called the most often in the published annotations is 38, it was called in 143 of the 255 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abelaine_13, 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, Douggie_12, Duggle_12, ELee24_12, EdElric_12, Efeko_13, Eightball_12, Ekko14_12, Elspeth_12, Erin_12, Gabbspett_12, Gardevoir_12, Gillker_12, Godfather_12, GoldenBlanche_12, Goobery_12, Goulash_12, Grayscar_12, HarperAnne_12, HeadMave_12, Hernandez44_12, Horacetta_12, Hulk_12, IzzyPants24_12, 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_12, Majesty_12, ManAs_12, Maneater_12, Marichuy_12, MasterPitts_12, MauiIvory_11, 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, OdetoJoy_12, Otwor_12, Owens_12, PaoPu_12, Picconator_12, Picnic_12, PoRanda_12, Pondwater_12, Publix_12, Puddles3_12, PuffyCat_12, Quaker_12, Rhogar_12, Rhysand_12, Rira_12, RoscoWindex_12, Sachet_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, TlaliMex_12, TomBrady12_12, Toxicola_13, Trackstar_12, Trireme_12, Tyrellus_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:
• Abba_18, AirForce1_20, Aledel_14, Altadena_18, AustinPowers_14, Barnstormer_14, BarretLemon_19, Beans_17, Beethoven_18, BigDome_19, BlackJade_23, Bodacious_14, Bolt007_18, BossLady_19, Brent_17, BrotherBLo_18, Bubbykins_21, Bumble_18, CalWood4100_19, Caron_14, Carpal_18, Cen1621_14, ChewChew_14, Cholula_18, Chridison_14, Christian_14, Circuit_18, CristinaYang_14, Daiboju_14, Dino_18, Divya_19, DrRobert_14, EastWest_20, Eunoia_14, Fluke_18, Franzy_17, GardenState_15, Glenn_18, GoldDust_19, Gooberta_19, GravityBall_19, Grekaycon_19, Herb_14, Hirko_18, Honk_14, HunterDalle_14, IAmGroot_15, Immaculata_18, JKerns_19, Jawnski_17, Jinkies_21, Jordan_19, Jumboset_18, Kalizoi_18, King2_17, KingBob_14, Klevey_18, Korra_19, Lasagna_14, LeeroyJ_19, Lennox_14, LilStuart_14, Lilmac1015_19, Lucy_14, Makoto_14, Maria1952_14, Martha_19, MeganNoll_18, Megan_30, MrGloopy_18, Music_19, Nancia_14, Nandito_18, NathanVaag_17, Nostromo_18, OMalley_14, Orkz_22, OurGirlNessie_14, Piccoletto_17, PinkFriday_14, Pippa_19, PitaDog_14, Potatoes_18, Prairie_18, Pterodactyl_14, Pumancara_14, RAP15_18, Riovina_14, Riverdale_18, Rozby_18, Savage2526_18, Scuttle_18, Sergei_14, Shade_19, Sicarius2_20, Sonny_19, StevieBAY_19, SunnyJune_20, Supakev_14, TaeYoung_19, TattModd_18, Temper16_14, Timinator_19, UtzChips_14, Vallejo_18, Vibaki_19, Vitus_19, Vulture_14, Wawa_18, WonderBoy_14, Wyborn_20, Zartrosa_19, Zeta1847_14, Zorro_18,

Summary by start number:

Start 1:
• Found in 36 of 267 (13.5%) of genes in pham
• Manual Annotations of this start: 33 of 255
• Called 97.2% of time when present
• Phage (with cluster) where this start called: Altadena_18 (FH), BarretLemon_19 (AO2), Beans_17 (AO1), BigDome_19 (AO2), Bolt007_18 (FH), BossLady_19 (AO2), Brent_17 (AO1), Bumble_18 (FH), CalWood4100_19 (FH), Circuit_18 (FH), EastWest_20 (AO), Franzy_17 (AO1), GravityBall_19 (AO2), Grekaycon_19 (AO2), JKerns_19 (AO2), Jawnski_17 (AO1), Jordan_19 (AO2), Klevey_18 (FH), LeeroyJ_19 (AO2), Lilmac1015_19 (FH), Martha_19 (AO2), Nandito_18 (FH), NathanVaag_17 (AO1), Piccoletto_17 (AO1), Pippa_19 (AO2), Prairie_18 (FH), Shade_19 (AO2), Sicarius2_20 (AO2), Sonny_19 (AO2), StevieBAY_19 (AO2), TaeYoung_19 (AO2), Timinator_19 (AO2), Vitus_19 (FL), Wyborn_20 (AO2), Zartrosa_19 (AO2),

Start 2:
• Found in 2 of 267 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_18 (AO3), Nostromo_18 (AO3),

Start 4:
• Found in 1 of 267 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_21 (UNK),

Start 7:
• Found in 1 of 267 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hirko_18 (FL),

Start 9:
• Found in 27 of 267 (10.1%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 3.7% of time when present
• Phage (with cluster) where this start called: King2_17 (AO1),

Start 12:
• Found in 4 of 267 (1.5%) of genes in pham
• Manual Annotations of this start: 4 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AirForce1_20 (FL), Divya_19 (FL), Jinkies_21 (FL), SunnyJune_20 (FL),

Start 13:
• Found in 7 of 267 (2.6%) of genes in pham
• Manual Annotations of this start: 3 of 255
• Called 85.7% of time when present
• Phage (with cluster) where this start called: BlackJade_23 (FL), GoldDust_19 (FL), Gooberta_19 (FL), Music_19 (FL), Orkz_22 (FL), Vibaki_19 (FL),

Start 29:
• Found in 10 of 267 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Zeta1847_14 (EH),

Start 30:
• Found in 55 of 267 (20.6%) of genes in pham
• Manual Annotations of this start: 55 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aledel_14 (AK), AustinPowers_14 (AK), Beethoven_18 (AK), Bodacious_14 (AK), BrotherBLo_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), Eunoia_14 (AK), Fluke_18 (AK), Glenn_18 (AK), Herb_14 (AK), HunterDalle_14 (AK), Immaculata_18 (AK), Jumboset_18 (AK), Kalizoi_18 (AK), KingBob_14 (AK), Korra_19 (AK), Lasagna_14 (AK), Lennox_14 (AK), LilStuart_14 (AK), Lucy_14 (AK), Makoto_14 (AK), Maria1952_14 (AK), MeganNoll_18 (AK), MrGloopy_18 (AK), Nancia_14 (AK), OMalley_14 (AK), OurGirlNessie_14 (AK), PinkFriday_14 (AK), PitaDog_14 (AK), Potatoes_18 (AK), Pterodactyl_14 (AK), Pumancara_14 (AK), RAP15_18 (AK), Riovina_14 (AK), Riverdale_18 (AK), Rozby_18 (AK), Savage2526_18 (AK), Scuttle_18 (AK), Sergei_14 (AK), Supakev_14 (AK), TattModd_18 (AK), Temper16_14 (AK), Vallejo_18 (AK), Vulture_14 (AK), Wawa_18 (AK), WonderBoy_14 (AK), Zorro_18 (AK),

Start 32:
• Found in 14 of 267 (5.2%) of genes in pham
• Manual Annotations of this start: 8 of 255
• Called 57.1% 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), Megan_30 (EC), UtzChips_14 (EH),

Start 38:
• Found in 153 of 267 (57.3%) of genes in pham
• Manual Annotations of this start: 143 of 255
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Abelaine_13 (EE), 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), Bintii_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), Duggle_12 (EE), ELee24_12 (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), Goulash_12 (EE), Grayscar_12 (EE), HarperAnne_12 (EE), HeadMave_12 (EE), Hernandez44_12 (EE), Horacetta_12 (EE), Hulk_12 (EE), IzzyPants24_12 (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_12 (EE), Majesty_12 (EE), ManAs_12 (EE), Maneater_12 (EE), Marichuy_12 (EE), MasterPitts_12 (EE), MauiIvory_11 (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), OdetoJoy_12 (EE), Otwor_12 (EE), Owens_12 (EE), PaoPu_12 (EE), Picconator_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), Rira_12 (EE), RoscoWindex_12 (EE), Sachet_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), TlaliMex_12 (EE), TomBrady12_12 (EE), Toxicola_13 (EE), Trackstar_12 (EE), Trireme_12 (EE), Tyrellus_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 43:
• Found in 152 of 267 (56.9%) of genes in pham
• Manual Annotations of this start: 3 of 255
• Called 2.0% 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 11 clusters represented in this pham: AO, EH, EE, AK, EC, AO3, AO2, AO1, FH, UNK, FL,

Info for manual annotations of cluster AK:
•Start number 30 was manually annotated 55 times for cluster AK.

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

Info for manual annotations of cluster AO1:
•Start number 1 was manually annotated 6 times for cluster AO1.
•Start number 9 was manually annotated 1 time for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 1 was manually annotated 18 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 2 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster EC:
•Start number 32 was manually annotated 1 time for cluster EC.

Info for manual annotations of cluster EE:

•Start number 38 was manually annotated 143 times for cluster EE.
•Start number 43 was manually annotated 3 times for cluster EE.

Info for manual annotations of cluster EH:
•Start number 29 was manually annotated 1 time for cluster EH.
•Start number 32 was manually annotated 7 times for cluster EH.

Info for manual annotations of cluster FH:
•Start number 1 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster FL:
•Start number 1 was manually annotated 1 time for cluster FL.
•Start number 7 was manually annotated 1 time for cluster FL.
•Start number 12 was manually annotated 4 times for cluster FL.
•Start number 13 was manually annotated 3 times for cluster FL.

Info for manual annotations of cluster UNK:
•Start number 4 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Abba_18 Start: 13503, Stop: 16706, Start Num: 2
Candidate Starts for Abba_18:
(Start: 2 @13503 has 2 MA's), (17, 13623), (21, 13659), (80, 13989), (107, 14157), (117, 14253), (121, 14271), (125, 14292), (130, 14340), (155, 14523), (164, 14556), (197, 14745), (200, 14754), (207, 14784), (210, 14799), (218, 14832), (233, 14892), (243, 14934), (263, 15009), (278, 15048), (304, 15144), (309, 15165), (317, 15198), (358, 15339), (387, 15441), (395, 15465), (398, 15471), (412, 15534), (423, 15597), (424, 15603), (446, 15738), (458, 15798), (466, 15867), (468, 15873), (475, 15915), (484, 15978), (490, 16017), (504, 16095), (510, 16116), (527, 16293), (529, 16362), (531, 16404), (534, 16431), (537, 16470), (546, 16596),

Gene: Abelaine_13 Start: 7556, Stop: 9661, Start Num: 38
Candidate Starts for Abelaine_13:
(Start: 38 @7556 has 143 MA's), (Start: 43 @7577 has 3 MA's), (76, 7754), (79, 7763), (82, 7787), (92, 7859), (96, 7883), (98, 7889), (110, 7982), (116, 8039), (121, 8060), (123, 8072), (125, 8081), (150, 8288), (155, 8306), (183, 8393), (201, 8462), (215, 8474), (226, 8522), (239, 8552), (242, 8567), (260, 8630), (267, 8654), (275, 8675), (281, 8699), (282, 8705), (289, 8732), (300, 8765), (310, 8804), (316, 8837), (320, 8852), (324, 8867), (339, 8894), (340, 8897), (351, 8930), (353, 8936), (367, 8984), (391, 9068), (399, 9095), (404, 9116), (415, 9179), (420, 9203), (429, 9260), (448, 9365), (451, 9386), (454, 9398), (461, 9440), (465, 9461), (466, 9482), (487, 9611),

Gene: AirForce1_20 Start: 13442, Stop: 15898, Start Num: 12
Candidate Starts for AirForce1_20:
(Start: 12 @13442 has 4 MA's), (18, 13490), (22, 13514), (50, 13682), (53, 13694), (77, 13784), (90, 13865), (111, 14018), (119, 14072), (122, 14087), (128, 14117), (133, 14168), (136, 14198), (145, 14252), (148, 14276), (154, 14312), (158, 14327), (170, 14369), (173, 14408), (176, 14423), (202, 14561), (204, 14567), (216, 14597), (257, 14750), (275, 14792), (287, 14837), (288, 14843), (294, 14861), (304, 14885), (316, 14930), (365, 15092), (413, 15269), (433, 15389), (479, 15626), (485, 15665), (508, 15788),

Gene: Aledel_14 Start: 9738, Stop: 12296, Start Num: 30

Candidate Starts for Aledel_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (78, 10008), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018), (488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: Altadena_18 Start: 13127, Stop: 15736, Start Num: 1
Candidate Starts for Altadena_18:
(Start: 1 @13127 has 33 MA's), (26, 13313), (Start: 29 @13322 has 1 MA's), (47, 13454), (51, 13487), (68, 13550), (79, 13598), (80, 13613), (107, 13781), (117, 13877), (121, 13895), (124, 13910), (125, 13916), (170, 14198), (190, 14330), (200, 14375), (206, 14405), (216, 14441), (259, 14600), (264, 14621), (279, 14657), (290, 14702), (306, 14753), (314, 14786), (316, 14792), (320, 14807), (326, 14825), (335, 14861), (368, 14963), (369, 14969), (389, 15035), (390, 15038), (400, 15065), (401, 15071), (419, 15158), (431, 15233), (438, 15284), (451, 15338), (459, 15371), (474, 15455), (485, 15521),

Gene: Alucard_12 Start: 7541, Stop: 9646, Start Num: 38
Candidate Starts for Alucard_12:
(Start: 38 @7541 has 143 MA's), (Start: 43 @7562 has 3 MA's), (76, 7739), (79, 7748), (82, 7772), (92, 7844), (96, 7868), (98, 7874), (116, 8024), (121, 8045), (123, 8057), (125, 8066), (150, 8273), (155, 8291), (183, 8378), (201, 8447), (215, 8459), (226, 8507), (239, 8537), (242, 8552), (250, 8588), (260, 8615), (265, 8636), (275, 8660), (281, 8684), (282, 8690), (289, 8717), (300, 8750), (310, 8789), (315, 8816), (320, 8837), (324, 8852), (339, 8879), (340, 8882), (347, 8903), (351, 8915), (353, 8921), (367, 8969), (376, 9005), (391, 9053), (399, 9080), (404, 9101), (415, 9164), (420, 9188), (429, 9245), (448, 9350), (451, 9371), (454, 9383), (461, 9425), (465, 9446), (466, 9467), (487, 9596),

Gene: Anseraureola_12 Start: 7563, Stop: 9671, Start Num: 38
Candidate Starts for Anseraureola_12:
(Start: 38 @7563 has 143 MA's), (Start: 43 @7584 has 3 MA's), (76, 7761), (79, 7770), (82, 7794), (92, 7866), (96, 7890), (98, 7896), (110, 7989), (116, 8046), (121, 8067), (123, 8079), (125, 8088), (150, 8295), (155, 8313), (183, 8400), (201, 8469), (215, 8481), (226, 8529), (239, 8559), (242, 8574), (250, 8610), (260, 8637), (267, 8661), (275, 8682), (281, 8706), (282, 8712), (289, 8739), (300, 8772), (310, 8811), (315, 8838), (320, 8859), (324, 8874), (339, 8901), (340, 8904), (351, 8937), (353, 8943), (367, 8991), (376, 9027), (391, 9075), (399, 9102), (404, 9123), (415, 9186), (420, 9210), (429, 9267), (448, 9372), (451, 9393), (454, 9405), (461, 9447), (466, 9489), (487, 9621),

Gene: Aries55_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Aries55_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Astro16_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Astro16_12:

(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: AustinPowers_14 Start: 9739, Stop: 12297, Start Num: 30
Candidate Starts for AustinPowers_14:
(Start: 30 @9739 has 55 MA's), (33, 9748), (34, 9778), (47, 9868), (68, 9964), (78, 10009), (80, 10027), (107, 10195), (117, 10291), (118, 10294), (121, 10309), (133, 10396), (140, 10462), (166, 10600), (167, 10603), (178, 10687), (246, 10993), (263, 11053), (268, 11071), (272, 11077), (280, 11110), (283, 11122), (293, 11158), (301, 11185), (307, 11209), (309, 11215), (324, 11272), (329, 11296), (331, 11305), (335, 11320), (343, 11344), (348, 11356), (354, 11377), (356, 11383), (361, 11404), (372, 11437), (376, 11455), (383, 11476), (385, 11482), (388, 11494), (397, 11527), (399, 11530), (402, 11542), (405, 11557), (406, 11560), (421, 11647), (435, 11737), (436, 11740), (445, 11791), (451, 11824), (456, 11848), (458, 11857), (466, 11923), (467, 11926), (477, 11980), (481, 12019), (488, 12067), (489, 12076), (492, 12100), (493, 12112), (514, 12208), (518, 12238),

Gene: Avvas_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Avvas_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Azizam_12 Start: 7534, Stop: 9639, Start Num: 38
Candidate Starts for Azizam_12:
(Start: 38 @7534 has 143 MA's), (Start: 43 @7555 has 3 MA's), (76, 7732), (79, 7741), (82, 7765), (92, 7837), (96, 7861), (98, 7867), (116, 8017), (121, 8038), (123, 8050), (125, 8059), (150, 8266), (155, 8284), (183, 8371), (201, 8440), (215, 8452), (226, 8500), (239, 8530), (242, 8545), (260, 8608), (265, 8629), (267, 8632), (282, 8683), (289, 8710), (300, 8743), (310, 8782), (315, 8809), (320, 8830), (324, 8845), (339, 8872), (347, 8896), (351, 8908), (353, 8914), (367, 8962), (391, 9046), (399, 9073), (404, 9094), (415, 9157), (420, 9181), (424, 9205), (427, 9226), (448, 9343), (451, 9364), (454, 9376), (461, 9418), (465, 9439), (466, 9460), (487, 9589),

Gene: Aztec_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Aztec_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Baine_12 Start: 7538, Stop: 9646, Start Num: 38
Candidate Starts for Baine_12:

(Start: 38 @7538 has 143 MA's), (Start: 43 @7559 has 3 MA's), (76, 7736), (79, 7745), (82, 7769), (92, 7841), (96, 7865), (98, 7871), (110, 7964), (116, 8021), (121, 8042), (123, 8054), (125, 8063), (150, 8270), (155, 8288), (183, 8375), (201, 8444), (215, 8456), (226, 8504), (239, 8534), (242, 8549), (250, 8585), (260, 8612), (275, 8657), (281, 8681), (282, 8687), (289, 8714), (300, 8747), (310, 8786), (315, 8813), (320, 8834), (324, 8849), (339, 8876), (340, 8879), (351, 8912), (353, 8918), (367, 8966), (376, 9002), (391, 9050), (399, 9077), (404, 9098), (415, 9161), (420, 9185), (429, 9242), (448, 9347), (451, 9368), (454, 9380), (461, 9422), (466, 9464), (487, 9596),

Gene: BarBear_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for BarBear_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Barnstormer_14 Start: 9927, Stop: 12275, Start Num: 32
Candidate Starts for Barnstormer_14:
(Start: 32 @9927 has 8 MA's), (61, 10110), (82, 10206), (99, 10314), (108, 10374), (134, 10569), (141, 10632), (152, 10716), (155, 10728), (156, 10731), (171, 10782), (174, 10833), (188, 10920), (200, 10980), (205, 11004), (224, 11085), (237, 11145), (243, 11166), (260, 11226), (265, 11247), (270, 11256), (284, 11307), (307, 11394), (310, 11403), (341, 11499), (343, 11505), (353, 11538), (379, 11634), (391, 11673), (420, 11811), (430, 11874), (450, 11985), (466, 12090), (471, 12126),

Gene: BarretLemon_19 Start: 13749, Stop: 16382, Start Num: 1
Candidate Starts for BarretLemon_19:
(Start: 1 @13749 has 33 MA's), (Start: 9 @13797 has 1 MA's), (27, 13947), (Start: 32 @13956 has 8 MA's), (47, 14079), (65, 14163), (107, 14406), (112, 14463), (117, 14502), (121, 14520), (125, 14541), (127, 14550), (130, 14589), (134, 14613), (138, 14655), (147, 14718), (156, 14775), (182, 14916), (189, 14949), (192, 14973), (223, 15090), (249, 15189), (252, 15198), (256, 15210), (259, 15216), (264, 15237), (278, 15270), (304, 15363), (312, 15390), (314, 15402), (318, 15414), (322, 15432), (323, 15435), (327, 15444), (336, 15480), (342, 15498), (343, 15501), (347, 15510), (354, 15534), (358, 15546), (362, 15564), (363, 15567), (368, 15579), (377, 15615), (390, 15654), (401, 15687), (407, 15708), (411, 15726), (412, 15738), (413, 15747), (419, 15774), (432, 15858), (439, 15903), (451, 15954), (466, 16035), (478, 16098), (479, 16104), (485, 16143), (500, 16248), (507, 16272), (517, 16320), (520, 16341),

Gene: Beans_17 Start: 13458, Stop: 16085, Start Num: 1
Candidate Starts for Beans_17:
(Start: 1 @13458 has 33 MA's), (Start: 9 @13506 has 1 MA's), (47, 13788), (52, 13824), (65, 13872), (88, 13995), (107, 14115), (112, 14172), (117, 14211), (121, 14229), (125, 14250), (127, 14259), (134, 14322), (138, 14364), (143, 14400), (147, 14427), (178, 14601), (182, 14625), (186, 14646), (190, 14667), (194, 14691), (200, 14712), (203, 14730), (217, 14772), (223, 14799), (229, 14820), (231, 14829), (249, 14898), (259, 14925), (266, 14949), (299, 15054), (306, 15078), (311, 15096), (312, 15099), (314, 15111), (322, 15141), (327, 15153), (333, 15177), (340, 15201), (342, 15207), (343, 15210), (347, 15219), (358, 15255), (362, 15273), (368, 15288), (373, 15309), (382, 15339), (390, 15363), (401, 15396), (407, 15417), (408, 15426), (413, 15456), (419, 15483), (425, 15525), (442, 15633), (446, 15645), (451, 15663), (466, 15741), (474, 15783), (478, 15804), (479, 15810), (485, 15849), (501, 15957), (507, 15978), (521, 16053),

Gene: Beethoven_18 Start: 12567, Stop: 15128, Start Num: 30

Candidate Starts for Beethoven_18:
(24, 12546), (Start: 30 @12567 has 55 MA's), (35, 12615), (41, 12648), (47, 12696), (49, 12720), (52, 12732), (68, 12792), (79, 12840), (80, 12855), (81, 12861), (101, 12981), (107, 13023), (117, 13119), (118, 13122), (124, 13152), (130, 13206), (148, 13347), (150, 13368), (156, 13392), (162, 13413), (164, 13422), (172, 13473), (175, 13491), (213, 13677), (246, 13821), (254, 13854), (263, 13881), (268, 13899), (272, 13905), (279, 13929), (280, 13938), (293, 13986), (301, 14013), (309, 14043), (311, 14049), (324, 14100), (327, 14115), (330, 14127), (331, 14133), (332, 14136), (334, 14145), (343, 14172), (348, 14184), (351, 14193), (354, 14205), (356, 14211), (361, 14232), (369, 14256), (372, 14265), (382, 14301), (383, 14304), (388, 14322), (397, 14355), (399, 14358), (401, 14367), (402, 14370), (405, 14385), (421, 14475), (445, 14619), (452, 14655), (466, 14751), (467, 14754), (477, 14808), (481, 14847), (488, 14895), (489, 14904), (492, 14928), (494, 14946), (504, 14997), (511, 15021), (514, 15039), (518, 15069),

Gene: Belthelas_12 Start: 7590, Stop: 9695, Start Num: 38
Candidate Starts for Belthelas_12:
(Start: 38 @7590 has 143 MA's), (Start: 43 @7611 has 3 MA's), (76, 7788), (79, 7797), (82, 7821), (92, 7893), (96, 7917), (98, 7923), (110, 8016), (116, 8073), (121, 8094), (123, 8106), (125, 8115), (150, 8322), (155, 8340), (183, 8427), (201, 8496), (215, 8508), (226, 8556), (239, 8586), (242, 8601), (250, 8637), (260, 8664), (267, 8688), (275, 8709), (281, 8733), (282, 8739), (289, 8766), (300, 8799), (310, 8838), (315, 8865), (320, 8886), (324, 8901), (339, 8928), (340, 8931), (347, 8952), (351, 8964), (353, 8970), (367, 9018), (376, 9054), (391, 9102), (399, 9129), (404, 9150), (415, 9213), (420, 9237), (429, 9294), (448, 9399), (451, 9420), (454, 9432), (461, 9474), (465, 9495), (466, 9516), (487, 9645),

Gene: BigDome_19 Start: 13737, Stop: 16370, Start Num: 1
Candidate Starts for BigDome_19:
(Start: 1 @13737 has 33 MA's), (Start: 9 @13785 has 1 MA's), (27, 13935), (Start: 32 @13944 has 8 MA's), (47, 14067), (65, 14151), (107, 14394), (112, 14451), (117, 14490), (121, 14508), (125, 14529), (127, 14538), (130, 14577), (134, 14601), (138, 14643), (147, 14706), (156, 14763), (182, 14904), (189, 14937), (192, 14961), (223, 15078), (249, 15177), (252, 15186), (256, 15198), (259, 15204), (264, 15225), (278, 15258), (304, 15351), (312, 15378), (314, 15390), (318, 15402), (322, 15420), (323, 15423), (327, 15432), (336, 15468), (342, 15486), (343, 15489), (347, 15498), (354, 15522), (358, 15534), (362, 15552), (363, 15555), (368, 15567), (377, 15603), (390, 15642), (401, 15675), (407, 15696), (411, 15714), (412, 15726), (413, 15735), (419, 15762), (432, 15846), (439, 15891), (451, 15942), (466, 16023), (478, 16086), (479, 16092), (485, 16131), (500, 16236), (507, 16260), (517, 16308), (520, 16329),

Gene: BinkBonk_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for BinkBonk_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Bintii_12 Start: 7572, Stop: 9677, Start Num: 38
Candidate Starts for Bintii_12:
(19, 7476), (Start: 38 @7572 has 143 MA's), (Start: 43 @7593 has 3 MA's), (76, 7770), (79, 7779), (82, 7803), (92, 7875), (96, 7899), (110, 7998), (121, 8076), (123, 8088), (125, 8097), (150, 8304), (155, 8322), (183, 8409), (201, 8478), (215, 8490), (226, 8538), (239, 8568), (242, 8583), (256, 8637), (265, 8667), (267, 8670), (275, 8691), (282, 8721), (289, 8748), (300, 8781), (310, 8820), (315, 8847), (316, 8853), (320, 8868), (324, 8883), (339, 8910), (340, 8913), (347, 8934), (351, 8946), (353, 8952), (367,

9000), (376, 9036), (391, 9084), (399, 9111), (404, 9132), (415, 9195), (420, 9219), (429, 9276), (448, 9381), (451, 9402), (454, 9414), (461, 9456), (465, 9477), (466, 9498),

Gene: Biscayne_12 Start: 7608, Stop: 9713, Start Num: 38
Candidate Starts for Biscayne_12:
(Start: 38 @7608 has 143 MA's), (Start: 43 @7629 has 3 MA's), (76, 7806), (79, 7815), (82, 7839), (92, 7911), (96, 7935), (98, 7941), (116, 8091), (121, 8112), (123, 8124), (125, 8133), (150, 8340), (155, 8358), (183, 8445), (201, 8514), (215, 8526), (226, 8574), (239, 8604), (242, 8619), (250, 8655), (260, 8682), (265, 8703), (275, 8727), (281, 8751), (282, 8757), (289, 8784), (300, 8817), (310, 8856), (315, 8883), (320, 8904), (324, 8919), (339, 8946), (340, 8949), (347, 8970), (351, 8982), (353, 8988), (367, 9036), (391, 9120), (399, 9147), (404, 9168), (415, 9231), (420, 9255), (429, 9312), (448, 9417), (451, 9438), (454, 9450), (461, 9492), (465, 9513), (466, 9534), (487, 9663),

Gene: BlackJade_23 Start: 15395, Stop: 18553, Start Num: 13
Candidate Starts for BlackJade_23:
(Start: 13 @15395 has 3 MA's), (18, 15443), (25, 15479), (41, 15563), (47, 15593), (52, 15605), (67, 15647), (70, 15659), (92, 15794), (104, 15860), (106, 15875), (111, 15935), (114, 15962), (120, 15989), (124, 16007), (132, 16070), (133, 16076), (134, 16082), (144, 16169), (146, 16178), (150, 16220), (162, 16265), (181, 16367), (219, 16508), (245, 16601), (254, 16625), (274, 16673), (278, 16685), (281, 16700), (301, 16748), (335, 16865), (351, 16904), (356, 16922), (360, 16937), (368, 16958), (382, 17000), (396, 17042), (401, 17054), (412, 17105), (436, 17171), (455, 17234), (463, 17276), (478, 17354), (480, 17366), (523, 17633), (530, 17672), (532, 17705), (535, 17747), (538, 17768), (541, 17807), (544, 17864), (545, 17882), (547, 17903), (548, 17927), (552, 18035), (557, 18110), (559, 18149), (562, 18212), (563, 18215), (565, 18275), (566, 18278), (567, 18281), (568, 18290), (569, 18320), (571, 18377), (576, 18443),

Gene: Bodacious_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for Bodacious_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (101, 10131), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: Bodhi17_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Bodhi17_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: Bolt007_18 Start: 12985, Stop: 15567, Start Num: 1
Candidate Starts for Bolt007_18:
(Start: 1 @12985 has 33 MA's), (26, 13171), (Start: 29 @13180 has 1 MA's), (56, 13366), (57, 13369), (80, 13471), (88, 13519), (107, 13639), (112, 13696), (117, 13735), (121, 13753), (124, 13768), (125,

13774), (138, 13888), (151, 13990), (194, 14215), (217, 14296), (223, 14323), (264, 14470), (306, 14602), (309, 14614), (314, 14635), (326, 14674), (339, 14722), (367, 14809), (372, 14827), (376, 14845), (379, 14854), (401, 14920), (406, 14938), (407, 14941), (419, 15007), (474, 15277), (485, 15343), (502, 15451), (512, 15472),

Gene: BonaeVitae_12 Start: 7240, Stop: 9339, Start Num: 38
Candidate Starts for BonaeVitae_12:
(Start: 38 @7240 has 143 MA's), (41, 7255), (Start: 43 @7261 has 3 MA's), (48, 7321), (61, 7375), (76, 7438), (79, 7447), (82, 7471), (92, 7543), (96, 7567), (110, 7666), (116, 7723), (123, 7756), (125, 7765), (167, 8032), (183, 8077), (212, 8149), (219, 8179), (239, 8236), (242, 8251), (261, 8320), (277, 8365), (281, 8383), (282, 8389), (300, 8449), (301, 8455), (305, 8470), (310, 8488), (315, 8515), (333, 8557), (347, 8602), (353, 8620), (359, 8647), (386, 8734), (391, 8752), (399, 8779), (408, 8821), (415, 8863), (416, 8866), (420, 8887), (437, 8998), (451, 9070), (454, 9082), (459, 9112), (461, 9124), (465, 9145), (482, 9253), (487, 9289),

Gene: BoomRoasted_12 Start: 7587, Stop: 9692, Start Num: 38
Candidate Starts for BoomRoasted_12:
(Start: 38 @7587 has 143 MA's), (Start: 43 @7608 has 3 MA's), (76, 7785), (79, 7794), (82, 7818), (92, 7890), (96, 7914), (98, 7920), (110, 8013), (116, 8070), (121, 8091), (123, 8103), (125, 8112), (150, 8319), (155, 8337), (183, 8424), (201, 8493), (215, 8505), (226, 8553), (239, 8583), (242, 8598), (250, 8634), (260, 8661), (267, 8685), (275, 8706), (281, 8730), (282, 8736), (289, 8763), (300, 8796), (310, 8835), (315, 8862), (320, 8883), (324, 8898), (339, 8925), (340, 8928), (347, 8949), (351, 8961), (353, 8967), (367, 9015), (376, 9051), (391, 9099), (399, 9126), (404, 9147), (415, 9210), (420, 9234), (429, 9291), (448, 9396), (451, 9417), (454, 9429), (461, 9471), (465, 9492), (466, 9513), (487, 9642),

Gene: BossLady_19 Start: 13763, Stop: 16393, Start Num: 1
Candidate Starts for BossLady_19:
(Start: 1 @13763 has 33 MA's), (Start: 9 @13811 has 1 MA's), (21, 13922), (39, 14030), (47, 14093), (65, 14177), (84, 14270), (107, 14420), (112, 14477), (117, 14516), (121, 14534), (125, 14555), (127, 14564), (134, 14627), (138, 14669), (143, 14705), (147, 14732), (180, 14918), (186, 14951), (203, 15035), (223, 15104), (244, 15179), (249, 15203), (251, 15209), (256, 15224), (259, 15230), (262, 15242), (266, 15254), (309, 15395), (312, 15404), (314, 15416), (333, 15482), (343, 15515), (347, 15524), (354, 15548), (358, 15560), (368, 15593), (390, 15668), (401, 15701), (407, 15722), (408, 15731), (419, 15788), (425, 15830), (432, 15872), (451, 15968), (466, 16049), (474, 16091), (478, 16112), (479, 16118), (485, 16157), (500, 16259), (507, 16283), (517, 16331), (520, 16352),

Gene: Bradley2_12 Start: 7539, Stop: 9644, Start Num: 38
Candidate Starts for Bradley2_12:
(Start: 38 @7539 has 143 MA's), (Start: 43 @7560 has 3 MA's), (76, 7737), (79, 7746), (82, 7770), (92, 7842), (96, 7866), (98, 7872), (116, 8022), (121, 8043), (123, 8055), (125, 8064), (150, 8271), (155, 8289), (183, 8376), (201, 8445), (215, 8457), (226, 8505), (239, 8535), (242, 8550), (250, 8586), (260, 8613), (265, 8634), (275, 8658), (281, 8682), (282, 8688), (289, 8715), (300, 8748), (310, 8787), (315, 8814), (320, 8835), (324, 8850), (339, 8877), (340, 8880), (347, 8901), (351, 8913), (353, 8919), (367, 8967), (376, 9003), (391, 9051), (399, 9078), (404, 9099), (415, 9162), (420, 9186), (429, 9243), (448, 9348), (451, 9369), (454, 9381), (461, 9423), (465, 9444), (466, 9465), (487, 9594),

Gene: Brent_17 Start: 13434, Stop: 16064, Start Num: 1
Candidate Starts for Brent_17:
(Start: 1 @13434 has 33 MA's), (Start: 9 @13482 has 1 MA's), (39, 13701), (47, 13764), (52, 13800), (65, 13848), (84, 13941), (107, 14091), (112, 14148), (117, 14187), (121, 14205), (125, 14226), (127, 14235), (134, 14298), (138, 14340), (143, 14376), (147, 14403), (182, 14601), (186, 14622), (190, 14643), (194, 14667), (203, 14706), (217, 14748), (222, 14772), (223, 14775), (231, 14805), (241, 14841), (244, 14850), (249, 14874), (255, 14892), (259, 14901), (266, 14925), (275, 14946), (299,

15030), (309, 15066), (311, 15072), (312, 15075), (314, 15087), (320, 15108), (322, 15117), (333, 15153), (343, 15186), (347, 15195), (354, 15219), (358, 15231), (362, 15249), (368, 15264), (377, 15300), (378, 15303), (390, 15339), (394, 15354), (401, 15372), (407, 15393), (408, 15402), (413, 15432), (418, 15456), (419, 15459), (451, 15639), (466, 15720), (474, 15762), (478, 15783), (479, 15789), (485, 15828), (501, 15936), (507, 15957), (521, 16032),

Gene: Bri160_12 Start: 7586, Stop: 9691, Start Num: 38
Candidate Starts for Bri160_12:
(Start: 38 @7586 has 143 MA's), (Start: 43 @7607 has 3 MA's), (76, 7784), (79, 7793), (82, 7817), (92, 7889), (96, 7913), (98, 7919), (110, 8012), (116, 8069), (121, 8090), (123, 8102), (125, 8111), (150, 8318), (155, 8336), (183, 8423), (201, 8492), (215, 8504), (226, 8552), (239, 8582), (242, 8597), (250, 8633), (260, 8660), (267, 8684), (275, 8705), (281, 8729), (282, 8735), (289, 8762), (300, 8795), (310, 8834), (315, 8861), (320, 8882), (324, 8897), (339, 8924), (340, 8927), (347, 8948), (351, 8960), (353, 8966), (367, 9014), (376, 9050), (391, 9098), (399, 9125), (404, 9146), (415, 9209), (420, 9233), (429, 9290), (448, 9395), (451, 9416), (454, 9428), (461, 9470), (465, 9491), (466, 9512), (487, 9641),

Gene: BrokMonster_12 Start: 7529, Stop: 9634, Start Num: 38
Candidate Starts for BrokMonster_12:
(Start: 38 @7529 has 143 MA's), (Start: 43 @7550 has 3 MA's), (76, 7727), (79, 7736), (82, 7760), (92, 7832), (96, 7856), (98, 7862), (110, 7955), (116, 8012), (121, 8033), (123, 8045), (125, 8054), (150, 8261), (155, 8279), (183, 8366), (201, 8435), (215, 8447), (226, 8495), (239, 8525), (242, 8540), (260, 8603), (265, 8624), (267, 8627), (282, 8678), (289, 8705), (300, 8738), (310, 8777), (315, 8804), (320, 8825), (324, 8840), (339, 8867), (347, 8891), (351, 8903), (353, 8909), (367, 8957), (391, 9041), (399, 9068), (404, 9089), (415, 9152), (420, 9176), (429, 9233), (448, 9338), (451, 9359), (454, 9371), (461, 9413), (465, 9434), (466, 9455), (487, 9584),

Gene: BrotherBLo_18 Start: 12573, Stop: 15134, Start Num: 30
Candidate Starts for BrotherBLo_18:
(24, 12552), (Start: 30 @12573 has 55 MA's), (35, 12621), (41, 12654), (47, 12702), (49, 12726), (52, 12738), (68, 12798), (79, 12846), (80, 12861), (81, 12867), (101, 12987), (107, 13029), (117, 13125), (118, 13128), (124, 13158), (130, 13212), (148, 13353), (150, 13374), (156, 13398), (162, 13419), (164, 13428), (172, 13479), (175, 13497), (213, 13683), (246, 13827), (254, 13860), (263, 13887), (268, 13905), (272, 13911), (279, 13935), (280, 13944), (293, 13992), (301, 14019), (302, 14022), (307, 14043), (309, 14049), (311, 14055), (324, 14106), (327, 14121), (330, 14133), (331, 14139), (332, 14142), (334, 14151), (343, 14178), (348, 14190), (351, 14199), (354, 14211), (356, 14217), (361, 14238), (369, 14262), (372, 14271), (383, 14310), (388, 14328), (397, 14361), (399, 14364), (401, 14373), (402, 14376), (405, 14391), (421, 14481), (426, 14517), (445, 14625), (452, 14661), (456, 14682), (466, 14757), (467, 14760), (477, 14814), (481, 14853), (488, 14901), (489, 14910), (492, 14934), (494, 14952), (504, 15003), (511, 15027), (514, 15045), (518, 15075),

Gene: Bubbykins_21 Start: 15244, Stop: 18789, Start Num: 4
Candidate Starts for Bubbykins_21:
(3, 15238), (Start: 4 @15244 has 1 MA's), (11, 15316), (22, 15394), (37, 15478), (44, 15523), (46, 15535), (47, 15547), (59, 15589), (87, 15721), (91, 15754), (104, 15823), (111, 15898), (114, 15925), (129, 16000), (132, 16033), (133, 16039), (134, 16045), (144, 16132), (150, 16183), (162, 16228), (168, 16249), (170, 16255), (181, 16330), (182, 16339), (187, 16360), (234, 16519), (254, 16588), (255, 16591), (274, 16636), (276, 16642), (296, 16714), (301, 16732), (318, 16792), (335, 16849), (344, 16870), (355, 16903), (360, 16921), (366, 16936), (368, 16942), (382, 16984), (385, 16993), (396, 17026), (411, 17077), (412, 17089), (417, 17119), (418, 17122), (422, 17146), (428, 17185), (435, 17230), (441, 17266), (445, 17281), (446, 17287), (466, 17389), (476, 17437), (478, 17446), (480, 17458), (485, 17494), (486, 17503), (497, 17584), (506, 17626), (507, 17629), (511, 17641), (520, 17704), (525, 17773), (526, 17776), (528, 17860), (533, 17950), (535, 17974), (538, 17995), (541, 18034), (544, 18091), (549, 18175), (555, 18319), (558, 18340), (559, 18376), (560, 18397),

(561, 18400), (564, 18472), (565, 18511), (569, 18556), (572, 18628), (573, 18655), (574, 18661), (576, 18676), (578, 18712), (579, 18727),

Gene: Bullzi2019_12 Start: 7561, Stop: 9666, Start Num: 38
Candidate Starts for Bullzi2019_12:
(Start: 38 @7561 has 143 MA's), (Start: 43 @7582 has 3 MA's), (76, 7759), (79, 7768), (82, 7792), (92, 7864), (96, 7888), (110, 7987), (121, 8065), (123, 8077), (125, 8086), (150, 8293), (155, 8311), (183, 8398), (201, 8467), (215, 8479), (226, 8527), (239, 8557), (242, 8572), (256, 8626), (265, 8656), (267, 8659), (275, 8680), (282, 8710), (289, 8737), (300, 8770), (310, 8809), (315, 8836), (316, 8842), (320, 8857), (324, 8872), (339, 8899), (340, 8902), (347, 8923), (351, 8935), (353, 8941), (367, 8989), (376, 9025), (391, 9073), (399, 9100), (404, 9121), (415, 9184), (420, 9208), (429, 9265), (448, 9370), (451, 9391), (461, 9445), (465, 9466), (466, 9487),

Gene: Bumble_18 Start: 13132, Stop: 15741, Start Num: 1
Candidate Starts for Bumble_18:
(Start: 1 @13132 has 33 MA's), (26, 13318), (Start: 29 @13327 has 1 MA's), (42, 13414), (47, 13459), (51, 13492), (57, 13516), (64, 13540), (80, 13618), (94, 13708), (107, 13786), (112, 13843), (116, 13879), (117, 13882), (121, 13900), (125, 13921), (134, 13993), (186, 14317), (190, 14338), (203, 14401), (217, 14443), (221, 14461), (223, 14470), (269, 14629), (290, 14698), (312, 14770), (314, 14782), (316, 14788), (323, 14815), (326, 14821), (334, 14854), (367, 14956), (368, 14959), (372, 14974), (389, 15031), (390, 15034), (401, 15067), (411, 15106), (419, 15154), (420, 15163), (451, 15334), (485, 15517),

Gene: Burgy_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Burgy_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: BurtonThePup_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for BurtonThePup_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: CalWood4100_19 Start: 12965, Stop: 15547, Start Num: 1
Candidate Starts for CalWood4100_19:
(Start: 1 @12965 has 33 MA's), (26, 13151), (Start: 29 @13160 has 1 MA's), (57, 13349), (80, 13451), (88, 13499), (107, 13619), (112, 13676), (117, 13715), (121, 13733), (125, 13754), (138, 13868), (159, 13997), (178, 14105), (190, 14171), (194, 14195), (223, 14303), (249, 14402), (309, 14594), (314, 14615), (326, 14654), (358, 14759), (367, 14789), (401, 14900), (406, 14918), (407, 14921), (410, 14936), (419, 14987), (425, 15029), (485, 15323), (502, 15431), (512, 15452),

Gene: Caron_14 Start: 9969, Stop: 12317, Start Num: 32
Candidate Starts for Caron_14:

(Start: 32 @9969 has 8 MA's), (61, 10152), (82, 10248), (99, 10356), (108, 10416), (134, 10611), (141, 10674), (152, 10758), (155, 10770), (156, 10773), (171, 10824), (174, 10875), (186, 10956), (200, 11022), (205, 11046), (224, 11127), (237, 11187), (243, 11208), (270, 11298), (284, 11349), (310, 11445), (341, 11541), (343, 11547), (346, 11559), (353, 11580), (381, 11682), (391, 11715), (404, 11763), (420, 11853), (430, 11916), (432, 11928), (450, 12027), (466, 12132), (471, 12168),

Gene: Carpal_18 Start: 12574, Stop: 15135, Start Num: 30
Candidate Starts for Carpal_18:
(24, 12553), (Start: 30 @12574 has 55 MA's), (35, 12622), (41, 12655), (47, 12703), (49, 12727), (52, 12739), (68, 12799), (79, 12847), (80, 12862), (81, 12868), (101, 12988), (107, 13030), (117, 13126), (118, 13129), (124, 13159), (130, 13213), (148, 13354), (150, 13375), (156, 13399), (162, 13420), (164, 13429), (172, 13480), (175, 13498), (213, 13684), (246, 13828), (254, 13861), (263, 13888), (268, 13906), (272, 13912), (279, 13936), (280, 13945), (293, 13993), (301, 14020), (302, 14023), (307, 14044), (311, 14056), (324, 14107), (327, 14122), (330, 14134), (332, 14143), (334, 14152), (343, 14179), (348, 14191), (351, 14200), (354, 14212), (356, 14218), (361, 14239), (369, 14263), (372, 14272), (383, 14311), (397, 14362), (399, 14365), (401, 14374), (402, 14377), (405, 14392), (421, 14482), (426, 14518), (445, 14626), (452, 14662), (466, 14758), (467, 14761), (477, 14815), (481, 14854), (488, 14902), (489, 14911), (492, 14935), (494, 14953), (504, 15004), (511, 15028), (514, 15046), (518, 15076),

Gene: Cayde6_12 Start: 7538, Stop: 9646, Start Num: 38
Candidate Starts for Cayde6_12:
(Start: 38 @7538 has 143 MA's), (Start: 43 @7559 has 3 MA's), (76, 7736), (79, 7745), (82, 7769), (92, 7841), (96, 7865), (98, 7871), (110, 7964), (116, 8021), (121, 8042), (123, 8054), (125, 8063), (150, 8270), (155, 8288), (183, 8375), (201, 8444), (215, 8456), (226, 8504), (239, 8534), (242, 8549), (250, 8585), (260, 8612), (275, 8657), (281, 8681), (282, 8687), (289, 8714), (300, 8747), (310, 8786), (315, 8813), (320, 8834), (324, 8849), (339, 8876), (340, 8879), (351, 8912), (353, 8918), (367, 8966), (376, 9002), (391, 9050), (399, 9077), (404, 9098), (415, 9161), (420, 9185), (429, 9242), (448, 9347), (451, 9368), (454, 9380), (461, 9422), (466, 9464), (487, 9596),

Gene: Cazares_12 Start: 7552, Stop: 9636, Start Num: 43
Candidate Starts for Cazares_12:
(Start: 38 @7531 has 143 MA's), (Start: 43 @7552 has 3 MA's), (76, 7729), (79, 7738), (82, 7762), (92, 7834), (96, 7858), (110, 7957), (116, 8014), (121, 8035), (123, 8047), (125, 8056), (150, 8263), (155, 8281), (183, 8368), (201, 8437), (215, 8449), (226, 8497), (239, 8527), (242, 8542), (265, 8626), (267, 8629), (275, 8650), (282, 8680), (289, 8707), (300, 8740), (310, 8779), (315, 8806), (316, 8812), (320, 8827), (324, 8842), (340, 8872), (347, 8893), (351, 8905), (353, 8911), (367, 8959), (376, 8995), (391, 9043), (399, 9070), (404, 9091), (415, 9154), (420, 9178), (429, 9235), (448, 9340), (451, 9361), (461, 9415), (465, 9436), (466, 9457),

Gene: Cen1621_14 Start: 9057, Stop: 11342, Start Num: 32
Candidate Starts for Cen1621_14:
(Start: 32 @9057 has 8 MA's), (54, 9216), (75, 9294), (82, 9336), (99, 9444), (107, 9495), (108, 9504), (116, 9588), (123, 9621), (128, 9645), (134, 9699), (141, 9762), (155, 9858), (156, 9861), (230, 10152), (235, 10173), (256, 10254), (275, 10308), (277, 10314), (286, 10353), (296, 10386), (316, 10470), (328, 10518), (344, 10578), (351, 10596), (359, 10629), (367, 10650), (374, 10677), (384, 10710), (391, 10734), (393, 10743), (415, 10845), (430, 10932), (447, 11028), (457, 11082), (459, 11094), (473, 11187),

Gene: Charbie_12 Start: 7528, Stop: 9633, Start Num: 38
Candidate Starts for Charbie_12:
(Start: 38 @7528 has 143 MA's), (Start: 43 @7549 has 3 MA's), (76, 7726), (79, 7735), (82, 7759), (92, 7831), (96, 7855), (98, 7861), (116, 8011), (121, 8032), (123, 8044), (125, 8053), (150, 8260), (155,

8278), (183, 8365), (201, 8434), (215, 8446), (226, 8494), (239, 8524), (242, 8539), (250, 8575), (260, 8602), (265, 8623), (275, 8647), (281, 8671), (282, 8677), (289, 8704), (300, 8737), (310, 8776), (315, 8803), (320, 8824), (324, 8839), (339, 8866), (340, 8869), (347, 8890), (351, 8902), (353, 8908), (367, 8956), (388, 9031), (391, 9040), (399, 9067), (404, 9088), (415, 9151), (420, 9175), (429, 9232), (448, 9337), (451, 9358), (454, 9370), (461, 9412), (465, 9433), (466, 9454),

Gene: Chatham_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Chatham_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Cheesecake_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Cheesecake_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: ChewChew_14 Start: 9716, Stop: 12277, Start Num: 30
Candidate Starts for ChewChew_14:
(24, 9695), (Start: 30 @9716 has 55 MA's), (35, 9764), (47, 9845), (49, 9869), (68, 9941), (79, 9989), (80, 10004), (81, 10010), (107, 10172), (117, 10268), (118, 10271), (124, 10301), (140, 10439), (150, 10517), (162, 10562), (164, 10571), (172, 10622), (175, 10640), (177, 10652), (181, 10676), (228, 10892), (248, 10982), (254, 11003), (263, 11030), (268, 11048), (272, 11054), (279, 11078), (280, 11087), (293, 11135), (301, 11162), (309, 11192), (324, 11249), (327, 11264), (330, 11276), (331, 11282), (332, 11285), (334, 11294), (343, 11321), (348, 11333), (351, 11342), (354, 11354), (356, 11360), (362, 11384), (369, 11405), (372, 11414), (375, 11429), (382, 11450), (383, 11453), (397, 11504), (399, 11507), (402, 11519), (415, 11594), (421, 11624), (426, 11660), (445, 11768), (448, 11780), (452, 11804), (466, 11900), (467, 11903), (471, 11936), (477, 11957), (481, 11996), (483, 12014), (488, 12044), (489, 12053), (492, 12077), (505, 12152), (518, 12218),

Gene: Cholula_18 Start: 12619, Stop: 15180, Start Num: 30
Candidate Starts for Cholula_18:
(24, 12598), (Start: 30 @12619 has 55 MA's), (35, 12667), (41, 12700), (47, 12748), (49, 12772), (52, 12784), (68, 12844), (79, 12892), (80, 12907), (81, 12913), (101, 13033), (107, 13075), (116, 13168), (117, 13171), (118, 13174), (124, 13204), (130, 13258), (148, 13399), (150, 13420), (156, 13444), (162, 13465), (164, 13474), (172, 13525), (175, 13543), (179, 13567), (213, 13729), (246, 13873), (254, 13906), (263, 13933), (268, 13951), (272, 13957), (279, 13981), (280, 13990), (293, 14038), (301, 14065), (307, 14089), (309, 14095), (311, 14101), (324, 14152), (327, 14167), (330, 14179), (331, 14185), (332, 14188), (334, 14197), (343, 14224), (348, 14236), (351, 14245), (354, 14257), (356, 14263), (361, 14284), (372, 14317), (383, 14356), (397, 14407), (399, 14410), (401, 14419), (402, 14422), (405, 14437), (420, 14521), (421, 14527), (426, 14563), (445, 14671), (448, 14683), (452, 14707), (466, 14803), (467, 14806), (477, 14860), (481, 14899), (488, 14947), (489, 14956), (492, 14980), (494, 14998), (504, 15049), (511, 15073), (514, 15091), (518, 15121),

Gene: Chridison_14 Start: 9739, Stop: 12297, Start Num: 30
Candidate Starts for Chridison_14:
(Start: 30 @9739 has 55 MA's), (33, 9748), (34, 9778), (47, 9868), (68, 9964), (78, 10009), (80, 10027), (107, 10195), (117, 10291), (118, 10294), (121, 10309), (133, 10396), (166, 10600), (167, 10603), (178, 10687), (246, 10993), (263, 11053), (268, 11071), (272, 11077), (280, 11110), (283, 11122), (293, 11158), (301, 11185), (307, 11209), (309, 11215), (324, 11272), (329, 11296), (331, 11305), (335, 11320), (343, 11344), (348, 11356), (354, 11377), (356, 11383), (361, 11404), (369, 11428), (372, 11437), (376, 11455), (383, 11476), (385, 11482), (388, 11494), (397, 11527), (399, 11530), (402, 11542), (405, 11557), (406, 11560), (421, 11647), (435, 11737), (436, 11740), (445, 11791), (456, 11848), (458, 11857), (460, 11869), (466, 11923), (467, 11926), (477, 11980), (481, 12019), (488, 12067), (489, 12076), (492, 12100), (493, 12112), (514, 12208), (518, 12238),

Gene: Christian_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for Christian_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (331, 11283), (334, 11295), (343, 11322), (345, 11328), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: Ciel_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Ciel_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Circuit_18 Start: 13139, Stop: 15739, Start Num: 1
Candidate Starts for Circuit_18:
(Start: 1 @13139 has 33 MA's), (20, 13292), (26, 13325), (Start: 29 @13334 has 1 MA's), (42, 13421), (47, 13466), (51, 13499), (57, 13523), (80, 13625), (94, 13715), (107, 13793), (112, 13850), (117, 13889), (121, 13907), (125, 13928), (134, 14000), (138, 14042), (182, 14303), (187, 14327), (190, 14342), (211, 14432), (227, 14492), (256, 14594), (290, 14702), (314, 14786), (316, 14792), (331, 14846), (334, 14858), (348, 14897), (367, 14960), (368, 14963), (379, 15005), (390, 15038), (401, 15071), (409, 15104), (411, 15110), (419, 15158), (451, 15338), (485, 15521),

Gene: Clownery_12 Start: 7648, Stop: 9753, Start Num: 38
Candidate Starts for Clownery_12:
(Start: 38 @7648 has 143 MA's), (Start: 43 @7669 has 3 MA's), (76, 7846), (79, 7855), (82, 7879), (92, 7951), (96, 7975), (110, 8074), (116, 8131), (121, 8152), (123, 8164), (125, 8173), (150, 8380), (155, 8398), (183, 8485), (201, 8554), (215, 8566), (226, 8614), (239, 8644), (242, 8659), (265, 8743), (267, 8746), (275, 8767), (282, 8797), (289, 8824), (300, 8857), (310, 8896), (315, 8923), (316, 8929), (320, 8944), (324, 8959), (340, 8989), (347, 9010), (351, 9022), (353, 9028), (367, 9076), (376, 9112), (391, 9160), (399, 9187), (404, 9208), (415, 9271), (420, 9295), (429, 9352), (448, 9457), (451, 9478), (461, 9532), (465, 9553), (466, 9574),

Gene: Concrete_12 Start: 7587, Stop: 9692, Start Num: 38
Candidate Starts for Concrete_12:
(Start: 38 @7587 has 143 MA's), (Start: 43 @7608 has 3 MA's), (76, 7785), (79, 7794), (82, 7818), (92, 7890), (96, 7914), (98, 7920), (110, 8013), (116, 8070), (121, 8091), (123, 8103), (125, 8112), (150, 8319), (155, 8337), (183, 8424), (201, 8493), (215, 8505), (226, 8553), (239, 8583), (242, 8598), (250, 8634), (260, 8661), (267, 8685), (275, 8706), (281, 8730), (282, 8736), (289, 8763), (300, 8796), (310, 8835), (315, 8862), (320, 8883), (324, 8898), (339, 8925), (340, 8928), (347, 8949), (351, 8961), (353, 8967), (367, 9015), (376, 9051), (391, 9099), (399, 9126), (404, 9147), (415, 9210), (420, 9234), (429, 9291), (448, 9396), (451, 9417), (454, 9429), (461, 9471), (465, 9492), (466, 9513), (487, 9642),

Gene: CristinaYang_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for CristinaYang_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (101, 10131), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: DaftyDuck_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for DaftyDuck_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472), (487, 9601),

Gene: Daiboju_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for Daiboju_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481), (386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Danimal_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Danimal_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315,

8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Danno_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Danno_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Dino_18 Start: 12572, Stop: 15133, Start Num: 30
Candidate Starts for Dino_18:
(24, 12551), (Start: 30 @12572 has 55 MA's), (35, 12620), (41, 12653), (47, 12701), (49, 12725), (52, 12737), (68, 12797), (79, 12845), (80, 12860), (81, 12866), (101, 12986), (107, 13028), (117, 13124), (118, 13127), (124, 13157), (130, 13211), (148, 13352), (150, 13373), (156, 13397), (162, 13418), (164, 13427), (172, 13478), (175, 13496), (213, 13682), (246, 13826), (254, 13859), (263, 13886), (268, 13904), (272, 13910), (279, 13934), (280, 13943), (293, 13991), (301, 14018), (302, 14021), (307, 14042), (311, 14054), (324, 14105), (327, 14120), (330, 14132), (332, 14141), (334, 14150), (343, 14177), (348, 14189), (351, 14198), (354, 14210), (356, 14216), (361, 14237), (369, 14261), (372, 14270), (383, 14309), (397, 14360), (399, 14363), (401, 14372), (402, 14375), (405, 14390), (421, 14480), (426, 14516), (445, 14624), (452, 14660), (466, 14756), (467, 14759), (477, 14813), (481, 14852), (488, 14900), (489, 14909), (492, 14933), (494, 14951), (504, 15002), (511, 15026), (514, 15044), (518, 15074),

Gene: DirtPie_12 Start: 7639, Stop: 9744, Start Num: 38
Candidate Starts for DirtPie_12:
(Start: 38 @7639 has 143 MA's), (Start: 43 @7660 has 3 MA's), (76, 7837), (79, 7846), (82, 7870), (92, 7942), (96, 7966), (98, 7972), (116, 8122), (121, 8143), (123, 8155), (125, 8164), (150, 8371), (155, 8389), (183, 8476), (201, 8545), (215, 8557), (226, 8605), (239, 8635), (242, 8650), (250, 8686), (260, 8713), (265, 8734), (275, 8758), (281, 8782), (282, 8788), (289, 8815), (300, 8848), (310, 8887), (315, 8914), (320, 8935), (324, 8950), (339, 8977), (340, 8980), (347, 9001), (351, 9013), (353, 9019), (367, 9067), (388, 9142), (391, 9151), (399, 9178), (404, 9199), (415, 9262), (420, 9286), (429, 9343), (448, 9448), (451, 9469), (454, 9481), (461, 9523), (465, 9544), (466, 9565), (487, 9694),

Gene: Divya_19 Start: 13712, Stop: 15958, Start Num: 12
Candidate Starts for Divya_19:
(Start: 12 @13712 has 4 MA's), (15, 13730), (18, 13760), (31, 13817), (47, 13910), (67, 13964), (69, 13976), (71, 13988), (74, 13997), (85, 14054), (97, 14129), (104, 14168), (132, 14378), (137, 14420), (139, 14438), (144, 14477), (150, 14528), (162, 14573), (163, 14579), (181, 14675), (220, 14840), (253, 14960), (261, 14984), (271, 15005), (288, 15062), (304, 15092), (321, 15155), (355, 15257), (455, 15575), (459, 15599), (466, 15623), (478, 15686), (485, 15731), (505, 15842), (509, 15854), (516, 15893),

Gene: Dongwon_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Dongwon_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315,

8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Dooby_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Dooby_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Douggie_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Douggie_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: DrRobert_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for DrRobert_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (451, 11802), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: Duggle_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Duggle_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: ELee24_12 Start: 7568, Stop: 9673, Start Num: 38
Candidate Starts for ELee24_12:
(Start: 38 @7568 has 143 MA's), (41, 7583), (Start: 43 @7589 has 3 MA's), (48, 7649), (76, 7766), (79, 7775), (82, 7799), (92, 7871), (96, 7895), (110, 7994), (116, 8051), (121, 8072), (125, 8093), (150, 8300), (155, 8318), (183, 8405), (201, 8474), (215, 8486), (219, 8507), (224, 8525), (226, 8534), (242, 8579), (250, 8615), (265, 8663), (267, 8666), (282, 8717), (291, 8750), (300, 8777), (310, 8816), (315,

8843), (320, 8864), (324, 8879), (347, 8930), (351, 8942), (353, 8948), (356, 8960), (386, 9062), (388, 9071), (391, 9080), (399, 9107), (415, 9191), (420, 9215), (451, 9398), (454, 9410), (461, 9452), (465, 9473), (466, 9494), (487, 9623),

Gene: EastWest_20 Start: 13745, Stop: 16369, Start Num: 1
Candidate Starts for EastWest_20:
(Start: 1 @13745 has 33 MA's), (5, 13760), (6, 13763), (Start: 9 @13790 has 1 MA's), (21, 13901), (47, 14072), (57, 14129), (65, 14156), (80, 14231), (88, 14279), (107, 14399), (112, 14456), (117, 14495), (121, 14513), (125, 14534), (134, 14606), (135, 14621), (138, 14648), (147, 14711), (149, 14732), (156, 14768), (159, 14777), (182, 14909), (223, 15083), (266, 15233), (299, 15338), (304, 15356), (306, 15362), (309, 15374), (333, 15461), (338, 15479), (340, 15485), (343, 15494), (347, 15503), (358, 15539), (368, 15572), (376, 15605), (390, 15647), (401, 15680), (413, 15740), (419, 15767), (432, 15851), (440, 15905), (451, 15947), (459, 15980), (466, 16025), (478, 16088), (479, 16094), (485, 16133), (501, 16238), (507, 16259),

Gene: EdElric_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for EdElric_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Efeko_13 Start: 7413, Stop: 9512, Start Num: 38
Candidate Starts for Efeko_13:
(Start: 38 @7413 has 143 MA's), (64, 7557), (68, 7572), (75, 7602), (79, 7620), (82, 7644), (92, 7716), (96, 7740), (98, 7746), (110, 7839), (121, 7917), (123, 7929), (125, 7938), (150, 8145), (157, 8169), (160, 8178), (167, 8205), (183, 8250), (196, 8295), (244, 8430), (258, 8478), (261, 8490), (273, 8523), (281, 8556), (282, 8562), (286, 8577), (292, 8598), (310, 8661), (313, 8670), (316, 8694), (318, 8700), (320, 8709), (333, 8730), (339, 8751), (340, 8754), (347, 8775), (351, 8787), (353, 8793), (359, 8820), (367, 8841), (374, 8868), (386, 8907), (391, 8925), (399, 8952), (404, 8973), (415, 9036), (416, 9039), (420, 9060), (427, 9105), (437, 9171), (448, 9222), (451, 9243), (454, 9255), (461, 9297), (481, 9420), (482, 9426),

Gene: Eightball_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Eightball_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Ekko14_12 Start: 7529, Stop: 9634, Start Num: 38
Candidate Starts for Ekko14_12:
(Start: 38 @7529 has 143 MA's), (Start: 43 @7550 has 3 MA's), (76, 7727), (79, 7736), (82, 7760), (92, 7832), (96, 7856), (110, 7955), (121, 8033), (123, 8045), (125, 8054), (150, 8261), (155, 8279), (183, 8366), (201, 8435), (215, 8447), (226, 8495), (239, 8525), (242, 8540), (265, 8624), (267, 8627), (275, 8648), (282, 8678), (289, 8705), (300, 8738), (310, 8777), (315, 8804), (316, 8810), (320, 8825), (324, 8840), (340, 8870), (347, 8891), (351, 8903), (353, 8909), (367, 8957), (376, 8993), (391, 9041), (399,

9068), (404, 9089), (415, 9152), (420, 9176), (429, 9233), (448, 9338), (451, 9359), (461, 9413), (465, 9434), (466, 9455),

Gene: Elspeth_12 Start: 7529, Stop: 9634, Start Num: 38
Candidate Starts for Elspeth_12:
(Start: 38 @7529 has 143 MA's), (Start: 43 @7550 has 3 MA's), (76, 7727), (79, 7736), (82, 7760), (92, 7832), (96, 7856), (110, 7955), (121, 8033), (123, 8045), (125, 8054), (150, 8261), (155, 8279), (183, 8366), (201, 8435), (215, 8447), (226, 8495), (239, 8525), (242, 8540), (265, 8624), (267, 8627), (275, 8648), (282, 8678), (289, 8705), (300, 8738), (310, 8777), (315, 8804), (316, 8810), (320, 8825), (324, 8840), (340, 8870), (347, 8891), (351, 8903), (353, 8909), (367, 8957), (376, 8993), (391, 9041), (399, 9068), (404, 9089), (415, 9152), (420, 9176), (429, 9233), (448, 9338), (451, 9359), (461, 9413), (465, 9434), (466, 9455),

Gene: Erin_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Erin_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Eunoia_14 Start: 9738, Stop: 12296, Start Num: 30
Candidate Starts for Eunoia_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (78, 10008), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018), (488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: Fluke_18 Start: 12615, Stop: 15176, Start Num: 30
Candidate Starts for Fluke_18:
(24, 12594), (Start: 30 @12615 has 55 MA's), (35, 12663), (41, 12696), (47, 12744), (49, 12768), (52, 12780), (68, 12840), (79, 12888), (80, 12903), (81, 12909), (101, 13029), (107, 13071), (117, 13167), (118, 13170), (124, 13200), (130, 13254), (148, 13395), (150, 13416), (156, 13440), (162, 13461), (164, 13470), (172, 13521), (175, 13539), (213, 13725), (246, 13869), (254, 13902), (263, 13929), (268, 13947), (272, 13953), (279, 13977), (280, 13986), (293, 14034), (301, 14061), (309, 14091), (311, 14097), (324, 14148), (327, 14163), (330, 14175), (331, 14181), (332, 14184), (334, 14193), (343, 14220), (348, 14232), (351, 14241), (354, 14253), (356, 14259), (361, 14280), (369, 14304), (372, 14313), (383, 14352), (388, 14370), (397, 14403), (399, 14406), (401, 14415), (402, 14418), (405, 14433), (421, 14523), (426, 14559), (445, 14667), (452, 14703), (466, 14799), (467, 14802), (477, 14856), (481, 14895), (488, 14943), (489, 14952), (492, 14976), (494, 14994), (504, 15045), (511, 15069), (514, 15087), (518, 15117),

Gene: Franzy_17 Start: 13434, Stop: 16064, Start Num: 1
Candidate Starts for Franzy_17:
(Start: 1 @13434 has 33 MA's), (Start: 9 @13482 has 1 MA's), (39, 13701), (47, 13764), (52, 13800), (65, 13848), (84, 13941), (107, 14091), (112, 14148), (117, 14187), (121, 14205), (125, 14226), (127,

14235), (134, 14298), (138, 14340), (143, 14376), (147, 14403), (182, 14601), (186, 14622), (190, 14643), (194, 14667), (203, 14706), (217, 14748), (222, 14772), (223, 14775), (231, 14805), (241, 14841), (244, 14850), (249, 14874), (255, 14892), (259, 14901), (266, 14925), (275, 14946), (299, 15030), (309, 15066), (311, 15072), (312, 15075), (314, 15087), (320, 15108), (322, 15117), (333, 15153), (343, 15186), (347, 15195), (354, 15219), (358, 15231), (362, 15249), (368, 15264), (377, 15300), (378, 15303), (390, 15339), (394, 15354), (401, 15372), (407, 15393), (408, 15402), (413, 15432), (418, 15456), (419, 15459), (451, 15639), (466, 15720), (474, 15762), (478, 15783), (479, 15789), (485, 15828), (501, 15936), (507, 15957), (521, 16032),

Gene: Gabbspett_12 Start: 7641, Stop: 9746, Start Num: 38
Candidate Starts for Gabbspett_12:
(Start: 38 @7641 has 143 MA's), (Start: 43 @7662 has 3 MA's), (76, 7839), (79, 7848), (82, 7872), (92, 7944), (96, 7968), (98, 7974), (116, 8124), (121, 8145), (123, 8157), (125, 8166), (150, 8373), (155, 8391), (183, 8478), (201, 8547), (215, 8559), (226, 8607), (239, 8637), (242, 8652), (250, 8688), (260, 8715), (265, 8736), (275, 8760), (281, 8784), (282, 8790), (289, 8817), (300, 8850), (310, 8889), (315, 8916), (320, 8937), (324, 8952), (339, 8979), (340, 8982), (347, 9003), (351, 9015), (353, 9021), (367, 9069), (388, 9144), (391, 9153), (399, 9180), (404, 9201), (415, 9264), (420, 9288), (429, 9345), (448, 9450), (451, 9471), (454, 9483), (461, 9525), (465, 9546), (466, 9567),

Gene: GardenState_15 Start: 10196, Stop: 12547, Start Num: 32
Candidate Starts for GardenState_15:
(Start: 32 @10196 has 8 MA's), (61, 10379), (99, 10595), (108, 10655), (116, 10739), (125, 10781), (134, 10850), (141, 10913), (155, 11009), (156, 11012), (171, 11063), (174, 11114), (191, 11228), (193, 11237), (202, 11276), (247, 11465), (274, 11549), (284, 11588), (289, 11609), (310, 11684), (343, 11786), (353, 11819), (385, 11933), (389, 11948), (391, 11954), (422, 12104), (429, 12149), (430, 12155), (450, 12266), (457, 12305), (466, 12371),

Gene: Gardevoir_12 Start: 7574, Stop: 9679, Start Num: 38
Candidate Starts for Gardevoir_12:
(Start: 38 @7574 has 143 MA's), (Start: 43 @7595 has 3 MA's), (76, 7772), (79, 7781), (82, 7805), (92, 7877), (96, 7901), (98, 7907), (116, 8057), (121, 8078), (123, 8090), (125, 8099), (150, 8306), (155, 8324), (183, 8411), (201, 8480), (215, 8492), (226, 8540), (239, 8570), (242, 8585), (250, 8621), (260, 8648), (265, 8669), (275, 8693), (281, 8717), (282, 8723), (289, 8750), (300, 8783), (310, 8822), (315, 8849), (320, 8870), (324, 8885), (339, 8912), (340, 8915), (347, 8936), (351, 8948), (353, 8954), (367, 9002), (376, 9038), (391, 9086), (399, 9113), (404, 9134), (415, 9197), (420, 9221), (429, 9278), (448, 9383), (451, 9404), (454, 9416), (461, 9458), (465, 9479), (466, 9500), (487, 9629),

Gene: Gillker_12 Start: 7539, Stop: 9644, Start Num: 38
Candidate Starts for Gillker_12:
(Start: 38 @7539 has 143 MA's), (Start: 43 @7560 has 3 MA's), (76, 7737), (79, 7746), (82, 7770), (92, 7842), (96, 7866), (98, 7872), (116, 8022), (121, 8043), (123, 8055), (125, 8064), (150, 8271), (155, 8289), (183, 8376), (201, 8445), (215, 8457), (226, 8505), (239, 8535), (242, 8550), (250, 8586), (260, 8613), (265, 8634), (275, 8658), (281, 8682), (282, 8688), (289, 8715), (300, 8748), (310, 8787), (315, 8814), (320, 8835), (324, 8850), (339, 8877), (340, 8880), (347, 8901), (351, 8913), (353, 8919), (367, 8967), (376, 9003), (391, 9051), (399, 9078), (404, 9099), (415, 9162), (420, 9186), (429, 9243), (448, 9348), (451, 9369), (454, 9381), (461, 9423), (465, 9444), (466, 9465), (487, 9594),

Gene: Glenn_18 Start: 12624, Stop: 15185, Start Num: 30
Candidate Starts for Glenn_18:
(24, 12603), (Start: 30 @12624 has 55 MA's), (35, 12672), (41, 12705), (47, 12753), (49, 12777), (52, 12789), (68, 12849), (79, 12897), (80, 12912), (81, 12918), (101, 13038), (107, 13080), (117, 13176), (118, 13179), (124, 13209), (130, 13263), (148, 13404), (150, 13425), (156, 13449), (162, 13470), (164, 13479), (172, 13530), (175, 13548), (213, 13734), (246, 13878), (254, 13911), (263, 13938),

(268, 13956), (272, 13962), (279, 13986), (280, 13995), (293, 14043), (301, 14070), (309, 14100), (311, 14106), (324, 14157), (327, 14172), (330, 14184), (331, 14190), (332, 14193), (334, 14202), (343, 14229), (348, 14241), (351, 14250), (354, 14262), (356, 14268), (361, 14289), (369, 14313), (372, 14322), (383, 14361), (388, 14379), (397, 14412), (399, 14415), (401, 14424), (402, 14427), (405, 14442), (421, 14532), (426, 14568), (445, 14676), (452, 14712), (466, 14808), (467, 14811), (477, 14865), (481, 14904), (488, 14952), (489, 14961), (492, 14985), (494, 15003), (504, 15054), (511, 15078), (514, 15096), (518, 15126),

Gene: Godfather_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Godfather_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: GoldDust_19 Start: 15321, Stop: 18470, Start Num: 13
Candidate Starts for GoldDust_19:
(Start: 13 @15321 has 3 MA's), (16, 15342), (18, 15366), (47, 15516), (67, 15570), (72, 15594), (92, 15705), (104, 15771), (109, 15804), (115, 15876), (137, 16023), (139, 16041), (146, 16089), (150, 16131), (181, 16278), (274, 16584), (282, 16617), (301, 16659), (308, 16683), (341, 16794), (354, 16827), (356, 16833), (362, 16854), (382, 16911), (401, 16965), (412, 17016), (435, 17079), (444, 17106), (466, 17208), (472, 17238), (480, 17277), (491, 17364), (497, 17403), (516, 17499), (522, 17538), (530, 17583), (532, 17616), (533, 17634), (536, 17673), (540, 17706), (543, 17745), (550, 17880), (551, 17883), (553, 17967), (554, 17991), (559, 18060), (562, 18132), (567, 18201), (569, 18240), (570, 18294), (575, 18357), (577, 18369), (580, 18417),

Gene: GoldenBlanche_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for GoldenBlanche_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Gooberta_19 Start: 15320, Stop: 18469, Start Num: 13
Candidate Starts for Gooberta_19:
(Start: 13 @15320 has 3 MA's), (18, 15365), (47, 15515), (67, 15569), (72, 15593), (92, 15704), (104, 15770), (109, 15803), (115, 15875), (137, 16022), (139, 16040), (146, 16088), (150, 16130), (181, 16277), (274, 16583), (282, 16616), (301, 16658), (308, 16682), (341, 16793), (354, 16826), (356, 16832), (362, 16853), (382, 16910), (401, 16964), (412, 17015), (435, 17078), (444, 17105), (466, 17207), (472, 17237), (480, 17276), (491, 17363), (497, 17402), (516, 17498), (522, 17537), (530, 17582), (532, 17615), (533, 17633), (536, 17672), (540, 17705), (543, 17744), (550, 17879), (551, 17882), (553, 17966), (554, 17990), (559, 18059), (562, 18131), (567, 18200), (569, 18239), (570, 18293), (575, 18356), (577, 18368), (580, 18416),

Gene: Goobery_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Goobery_12:

(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Goulash_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Goulash_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (437, 9298), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: GravityBall_19 Start: 13748, Stop: 16381, Start Num: 1
Candidate Starts for GravityBall_19:
(Start: 1 @13748 has 33 MA's), (Start: 9 @13796 has 1 MA's), (27, 13946), (Start: 32 @13955 has 8 MA's), (47, 14078), (65, 14162), (88, 14285), (107, 14405), (112, 14462), (117, 14501), (121, 14519), (125, 14540), (127, 14549), (130, 14588), (134, 14612), (138, 14654), (147, 14717), (156, 14774), (182, 14915), (189, 14948), (192, 14972), (223, 15089), (249, 15188), (252, 15197), (256, 15209), (259, 15215), (264, 15236), (278, 15269), (304, 15362), (312, 15389), (314, 15401), (318, 15413), (322, 15431), (323, 15434), (327, 15443), (336, 15479), (342, 15497), (343, 15500), (347, 15509), (354, 15533), (358, 15545), (362, 15563), (363, 15566), (368, 15578), (377, 15614), (390, 15653), (401, 15686), (407, 15707), (412, 15737), (413, 15746), (419, 15773), (432, 15857), (439, 15902), (451, 15953), (466, 16034), (478, 16097), (479, 16103), (485, 16142), (500, 16247), (507, 16271), (517, 16319), (520, 16340),

Gene: Grayscar_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Grayscar_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Grekaycon_19 Start: 13772, Stop: 16402, Start Num: 1
Candidate Starts for Grekaycon_19:
(Start: 1 @13772 has 33 MA's), (Start: 9 @13820 has 1 MA's), (21, 13931), (39, 14039), (47, 14102), (65, 14186), (84, 14279), (107, 14429), (112, 14486), (117, 14525), (121, 14543), (125, 14564), (127, 14573), (134, 14636), (138, 14678), (143, 14714), (147, 14741), (180, 14927), (186, 14960), (203, 15044), (223, 15113), (244, 15188), (249, 15212), (251, 15218), (256, 15233), (259, 15239), (262, 15251), (266, 15263), (309, 15404), (312, 15413), (314, 15425), (333, 15491), (343, 15524), (347, 15533), (354, 15557), (358, 15569), (368, 15602), (390, 15677), (401, 15710), (407, 15731), (408, 15740), (419, 15797), (425, 15839), (432, 15881), (451, 15977), (466, 16058), (474, 16100), (478, 16121), (479, 16127), (485, 16166), (500, 16268), (507, 16292), (517, 16340), (520, 16361),

Gene: HarperAnne_12 Start: 7528, Stop: 9633, Start Num: 38

Candidate Starts for HarperAnne_12:
(Start: 38 @7528 has 143 MA's), (Start: 43 @7549 has 3 MA's), (76, 7726), (79, 7735), (82, 7759), (92, 7831), (96, 7855), (110, 7954), (121, 8032), (123, 8044), (125, 8053), (150, 8260), (155, 8278), (183, 8365), (201, 8434), (215, 8446), (226, 8494), (239, 8524), (242, 8539), (265, 8623), (267, 8626), (275, 8647), (282, 8677), (289, 8704), (300, 8737), (310, 8776), (315, 8803), (316, 8809), (320, 8824), (324, 8839), (340, 8869), (347, 8890), (351, 8902), (353, 8908), (367, 8956), (376, 8992), (391, 9040), (399, 9067), (404, 9088), (415, 9151), (420, 9175), (429, 9232), (448, 9337), (451, 9358), (461, 9412), (465, 9433), (466, 9454),

Gene: HeadMave_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for HeadMave_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Herb_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for Herb_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481), (386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Hernandez44_12 Start: 7641, Stop: 9746, Start Num: 38
Candidate Starts for Hernandez44_12:
(Start: 38 @7641 has 143 MA's), (Start: 43 @7662 has 3 MA's), (76, 7839), (79, 7848), (82, 7872), (92, 7944), (96, 7968), (98, 7974), (116, 8124), (121, 8145), (123, 8157), (125, 8166), (150, 8373), (155, 8391), (183, 8478), (201, 8547), (215, 8559), (226, 8607), (239, 8637), (242, 8652), (250, 8688), (260, 8715), (265, 8736), (275, 8760), (281, 8784), (282, 8790), (289, 8817), (300, 8850), (310, 8889), (315, 8916), (320, 8937), (324, 8952), (339, 8979), (340, 8982), (347, 9003), (351, 9015), (353, 9021), (367, 9069), (388, 9144), (391, 9153), (399, 9180), (404, 9201), (415, 9264), (420, 9288), (429, 9345), (448, 9450), (451, 9471), (454, 9483), (461, 9525), (465, 9546), (466, 9567),

Gene: Hirko_18 Start: 14681, Stop: 17965, Start Num: 7
Candidate Starts for Hirko_18:
(Start: 7 @14681 has 1 MA's), (Start: 13 @14750 has 3 MA's), (18, 14795), (40, 14921), (47, 14978), (63, 15050), (86, 15164), (92, 15200), (104, 15266), (115, 15371), (137, 15518), (139, 15536), (146, 15584), (150, 15626), (181, 15773), (184, 15791), (195, 15848), (234, 15962), (247, 16010), (278, 16091), (301, 16154), (318, 16214), (335, 16271), (349, 16304), (356, 16328), (360, 16343), (362, 16349), (371, 16376), (395, 16445), (455, 16640), (458, 16655), (463, 16682), (466, 16703), (474, 16742), (491, 16859), (497, 16898), (498, 16907), (522, 17033), (524, 17042), (533, 17129), (536, 17168), (539, 17177), (540, 17201), (543, 17240), (550, 17375), (551, 17378), (556, 17507), (559, 17555), (562, 17627), (569, 17735), (570, 17789), (575, 17852), (577, 17864), (580, 17912),

Gene: Honk_14 Start: 9008, Stop: 11266, Start Num: 32
Candidate Starts for Honk_14:
(Start: 32 @9008 has 8 MA's), (54, 9167), (61, 9191), (65, 9203), (75, 9245), (82, 9287), (99, 9395), (107, 9446), (108, 9455), (123, 9572), (126, 9587), (128, 9596), (134, 9650), (141, 9713), (152, 9797), (155, 9809), (156, 9812), (159, 9821), (174, 9872), (198, 9986), (226, 10082), (235, 10124), (262, 10223), (274, 10256), (277, 10265), (300, 10349), (340, 10481), (350, 10511), (353, 10520), (376, 10604), (378, 10610), (381, 10619), (389, 10646), (391, 10652), (413, 10751), (427, 10832), (450, 10964), (457, 11003), (459, 11015), (466, 11069), (469, 11084), (473, 11111),

Gene: Horacetta_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Horacetta_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Hulk_12 Start: 7553, Stop: 9658, Start Num: 38
Candidate Starts for Hulk_12:
(Start: 38 @7553 has 143 MA's), (Start: 43 @7574 has 3 MA's), (76, 7751), (79, 7760), (82, 7784), (92, 7856), (96, 7880), (98, 7886), (116, 8036), (121, 8057), (123, 8069), (125, 8078), (150, 8285), (155, 8303), (183, 8390), (201, 8459), (215, 8471), (226, 8519), (239, 8549), (242, 8564), (250, 8600), (260, 8627), (265, 8648), (275, 8672), (281, 8696), (282, 8702), (289, 8729), (300, 8762), (310, 8801), (315, 8828), (320, 8849), (324, 8864), (339, 8891), (340, 8894), (347, 8915), (351, 8927), (353, 8933), (367, 8981), (388, 9056), (391, 9065), (399, 9092), (404, 9113), (415, 9176), (429, 9257), (448, 9362), (451, 9383), (454, 9395), (461, 9437), (465, 9458), (466, 9479), (487, 9608),

Gene: HunterDalle_14 Start: 9738, Stop: 12296, Start Num: 30
Candidate Starts for HunterDalle_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (140, 10461), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018), (488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: IAmGroot_15 Start: 10840, Stop: 13191, Start Num: 32
Candidate Starts for IAmGroot_15:
(Start: 32 @10840 has 8 MA's), (61, 11023), (99, 11239), (108, 11299), (116, 11383), (125, 11425), (134, 11494), (141, 11557), (155, 11653), (156, 11656), (171, 11707), (174, 11758), (191, 11872), (193, 11881), (202, 11920), (247, 12109), (274, 12193), (284, 12232), (289, 12253), (310, 12328), (343, 12430), (346, 12442), (353, 12463), (385, 12577), (389, 12592), (391, 12598), (430, 12799), (457, 12949), (466, 13015),

Gene: Immaculata_18 Start: 12618, Stop: 15179, Start Num: 30
Candidate Starts for Immaculata_18:
(24, 12597), (Start: 30 @12618 has 55 MA's), (35, 12666), (41, 12699), (47, 12747), (49, 12771), (52, 12783), (68, 12843), (79, 12891), (80, 12906), (81, 12912), (101, 13032), (107, 13074), (116, 13167),

(117, 13170), (118, 13173), (124, 13203), (130, 13257), (148, 13398), (150, 13419), (156, 13443), (162, 13464), (164, 13473), (172, 13524), (175, 13542), (179, 13566), (213, 13728), (246, 13872), (254, 13905), (263, 13932), (268, 13950), (272, 13956), (279, 13980), (280, 13989), (293, 14037), (301, 14064), (307, 14088), (309, 14094), (311, 14100), (324, 14151), (327, 14166), (330, 14178), (331, 14184), (332, 14187), (334, 14196), (343, 14223), (348, 14235), (351, 14244), (354, 14256), (356, 14262), (361, 14283), (372, 14316), (383, 14355), (397, 14406), (399, 14409), (401, 14418), (402, 14421), (405, 14436), (420, 14520), (421, 14526), (426, 14562), (445, 14670), (448, 14682), (452, 14706), (466, 14802), (467, 14805), (477, 14859), (481, 14898), (488, 14946), (489, 14955), (492, 14979), (494, 14997), (504, 15048), (511, 15072), (514, 15090), (518, 15120),

Gene: IzzyPants24_12 Start: 7579, Stop: 9684, Start Num: 38
Candidate Starts for IzzyPants24_12:
(Start: 38 @7579 has 143 MA's), (Start: 43 @7600 has 3 MA's), (76, 7777), (79, 7786), (82, 7810), (92, 7882), (96, 7906), (110, 8005), (121, 8083), (123, 8095), (125, 8104), (150, 8311), (155, 8329), (183, 8416), (201, 8485), (215, 8497), (226, 8545), (239, 8575), (242, 8590), (256, 8644), (265, 8674), (267, 8677), (275, 8698), (282, 8728), (289, 8755), (300, 8788), (310, 8827), (315, 8854), (316, 8860), (320, 8875), (324, 8890), (339, 8917), (340, 8920), (347, 8941), (351, 8953), (353, 8959), (367, 9007), (376, 9043), (391, 9091), (399, 9118), (404, 9139), (415, 9202), (420, 9226), (429, 9283), (448, 9388), (451, 9409), (461, 9463), (465, 9484), (466, 9505),

Gene: JKerns_19 Start: 13799, Stop: 16429, Start Num: 1
Candidate Starts for JKerns_19:
(Start: 1 @13799 has 33 MA's), (Start: 9 @13847 has 1 MA's), (21, 13958), (39, 14066), (47, 14129), (65, 14213), (84, 14306), (88, 14336), (107, 14456), (112, 14513), (117, 14552), (121, 14570), (125, 14591), (127, 14600), (134, 14663), (138, 14705), (143, 14741), (147, 14768), (180, 14954), (186, 14987), (203, 15071), (223, 15140), (249, 15239), (252, 15248), (259, 15266), (262, 15278), (309, 15431), (311, 15437), (312, 15440), (314, 15452), (316, 15458), (320, 15473), (322, 15482), (333, 15518), (343, 15551), (347, 15560), (354, 15584), (358, 15596), (362, 15614), (368, 15629), (377, 15665), (390, 15704), (394, 15719), (401, 15737), (407, 15758), (408, 15767), (413, 15797), (419, 15824), (424, 15857), (425, 15866), (440, 15962), (442, 15974), (449, 15995), (451, 16004), (466, 16085), (474, 16127), (478, 16148), (479, 16154), (485, 16193), (500, 16295), (507, 16319), (517, 16367), (520, 16388),

Gene: JRok_12 Start: 7531, Stop: 9636, Start Num: 38
Candidate Starts for JRok_12:
(Start: 38 @7531 has 143 MA's), (Start: 43 @7552 has 3 MA's), (76, 7729), (79, 7738), (82, 7762), (92, 7834), (96, 7858), (98, 7864), (116, 8014), (121, 8035), (123, 8047), (125, 8056), (150, 8263), (155, 8281), (183, 8368), (201, 8437), (215, 8449), (226, 8497), (239, 8527), (242, 8542), (260, 8605), (265, 8626), (267, 8629), (282, 8680), (289, 8707), (300, 8740), (310, 8779), (315, 8806), (320, 8827), (324, 8842), (339, 8869), (347, 8893), (351, 8905), (353, 8911), (367, 8959), (391, 9043), (399, 9070), (404, 9091), (415, 9154), (420, 9178), (424, 9202), (427, 9223), (448, 9340), (451, 9361), (454, 9373), (461, 9415), (465, 9436), (466, 9457), (487, 9586),

Gene: Jahseh_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Jahseh_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: JaimeB_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for JaimeB_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Jannah_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Jannah_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466),

Gene: Jawnski_17 Start: 13453, Stop: 16080, Start Num: 1
Candidate Starts for Jawnski_17:
(Start: 1 @13453 has 33 MA's), (Start: 9 @13501 has 1 MA's), (47, 13783), (52, 13819), (65, 13867), (88, 13990), (107, 14110), (112, 14167), (117, 14206), (121, 14224), (125, 14245), (127, 14254), (134, 14317), (138, 14359), (143, 14395), (147, 14422), (182, 14620), (189, 14653), (217, 14767), (223, 14794), (236, 14842), (251, 14899), (259, 14920), (266, 14944), (299, 15049), (304, 15067), (312, 15094), (314, 15106), (322, 15136), (327, 15148), (333, 15172), (340, 15196), (342, 15202), (343, 15205), (347, 15214), (358, 15250), (362, 15268), (368, 15283), (373, 15304), (382, 15334), (390, 15358), (401, 15391), (407, 15412), (408, 15421), (413, 15451), (419, 15478), (425, 15520), (442, 15628), (446, 15640), (451, 15658), (466, 15736), (474, 15778), (478, 15799), (479, 15805), (485, 15844), (501, 15952), (507, 15973), (521, 16048),

Gene: Jella_12 Start: 7564, Stop: 9669, Start Num: 38
Candidate Starts for Jella_12:
(Start: 38 @7564 has 143 MA's), (Start: 43 @7585 has 3 MA's), (76, 7762), (79, 7771), (82, 7795), (92, 7867), (96, 7891), (98, 7897), (116, 8047), (121, 8068), (123, 8080), (125, 8089), (150, 8296), (155, 8314), (183, 8401), (201, 8470), (215, 8482), (226, 8530), (239, 8560), (242, 8575), (250, 8611), (260, 8638), (265, 8659), (275, 8683), (281, 8707), (282, 8713), (289, 8740), (300, 8773), (310, 8812), (315, 8839), (320, 8860), (324, 8875), (339, 8902), (340, 8905), (347, 8926), (351, 8938), (353, 8944), (367, 8992), (388, 9067), (391, 9076), (399, 9103), (404, 9124), (415, 9187), (420, 9211), (429, 9268), (448, 9373), (451, 9394), (454, 9406), (461, 9448), (465, 9469), (466, 9490),

Gene: Jerky_12 Start: 7627, Stop: 9732, Start Num: 38
Candidate Starts for Jerky_12:
(Start: 38 @7627 has 143 MA's), (Start: 43 @7648 has 3 MA's), (76, 7825), (79, 7834), (82, 7858), (92, 7930), (96, 7954), (98, 7960), (116, 8110), (121, 8131), (123, 8143), (125, 8152), (150, 8359), (155, 8377), (183, 8464), (201, 8533), (215, 8545), (226, 8593), (239, 8623), (242, 8638), (260, 8701), (265, 8722), (275, 8746), (281, 8770), (282, 8776), (289, 8803), (300, 8836), (310, 8875), (315, 8902), (320, 8923), (324, 8938), (339, 8965), (340, 8968), (347, 8989), (351, 9001), (353, 9007), (367, 9055), (376, 9091), (388, 9130), (391, 9139), (399, 9166), (404, 9187), (415, 9250), (420, 9274), (429, 9331), (448, 9436), (451, 9457), (454, 9469), (461, 9511), (465, 9532), (466, 9553), (487, 9682),

Gene: Jinkies_21 Start: 16085, Stop: 18541, Start Num: 12

Candidate Starts for Jinkies_21:
(Start: 12 @16085 has 4 MA's), (18, 16133), (22, 16157), (50, 16325), (53, 16337), (73, 16415), (77, 16427), (93, 16523), (102, 16574), (111, 16661), (122, 16730), (128, 16760), (133, 16811), (136, 16841), (145, 16895), (148, 16919), (154, 16955), (158, 16970), (170, 17012), (173, 17051), (176, 17066), (202, 17204), (204, 17210), (216, 17240), (257, 17393), (275, 17435), (287, 17480), (294, 17504), (316, 17573), (352, 17690), (365, 17735), (410, 17888), (413, 17912), (433, 18032), (443, 18086), (479, 18269), (485, 18308), (508, 18431), (513, 18443),

Gene: JoBros_12 Start: 7541, Stop: 9646, Start Num: 38
Candidate Starts for JoBros_12:
(Start: 38 @7541 has 143 MA's), (Start: 43 @7562 has 3 MA's), (76, 7739), (79, 7748), (82, 7772), (92, 7844), (96, 7868), (98, 7874), (116, 8024), (121, 8045), (123, 8057), (125, 8066), (150, 8273), (155, 8291), (183, 8378), (201, 8447), (215, 8459), (226, 8507), (239, 8537), (242, 8552), (250, 8588), (260, 8615), (265, 8636), (275, 8660), (281, 8684), (282, 8690), (289, 8717), (300, 8750), (310, 8789), (315, 8816), (320, 8837), (324, 8852), (339, 8879), (340, 8882), (347, 8903), (351, 8915), (353, 8921), (367, 8969), (376, 9005), (391, 9053), (399, 9080), (404, 9101), (415, 9164), (420, 9188), (429, 9245), (448, 9350), (451, 9371), (454, 9383), (461, 9425), (465, 9446), (466, 9467), (487, 9596),

Gene: JooneeDee_12 Start: 7572, Stop: 9677, Start Num: 38
Candidate Starts for JooneeDee_12:
(19, 7476), (Start: 38 @7572 has 143 MA's), (Start: 43 @7593 has 3 MA's), (65, 7719), (76, 7770), (79, 7779), (82, 7803), (92, 7875), (96, 7899), (110, 7998), (121, 8076), (123, 8088), (125, 8097), (150, 8304), (155, 8322), (183, 8409), (201, 8478), (215, 8490), (226, 8538), (239, 8568), (242, 8583), (256, 8637), (265, 8667), (267, 8670), (275, 8691), (282, 8721), (289, 8748), (300, 8781), (310, 8820), (315, 8847), (316, 8853), (320, 8868), (324, 8883), (339, 8910), (340, 8913), (347, 8934), (351, 8946), (353, 8952), (367, 9000), (376, 9036), (391, 9084), (399, 9111), (404, 9132), (415, 9195), (420, 9219), (429, 9276), (448, 9381), (451, 9402), (454, 9414), (461, 9456), (465, 9477), (466, 9498),

Gene: Jordan_19 Start: 13769, Stop: 16399, Start Num: 1
Candidate Starts for Jordan_19:
(Start: 1 @13769 has 33 MA's), (Start: 9 @13817 has 1 MA's), (21, 13928), (39, 14036), (47, 14099), (65, 14183), (84, 14276), (88, 14306), (107, 14426), (112, 14483), (117, 14522), (121, 14540), (125, 14561), (127, 14570), (134, 14633), (138, 14675), (143, 14711), (147, 14738), (180, 14924), (186, 14957), (203, 15041), (223, 15110), (249, 15209), (252, 15218), (259, 15236), (262, 15248), (309, 15401), (311, 15407), (312, 15410), (314, 15422), (316, 15428), (320, 15443), (322, 15452), (333, 15488), (343, 15521), (347, 15530), (354, 15554), (358, 15566), (362, 15584), (368, 15599), (377, 15635), (390, 15674), (394, 15689), (401, 15707), (407, 15728), (408, 15737), (413, 15767), (419, 15794), (424, 15827), (425, 15836), (440, 15932), (442, 15944), (449, 15965), (451, 15974), (466, 16055), (474, 16097), (478, 16118), (479, 16124), (485, 16163), (500, 16265), (507, 16289), (517, 16337), (520, 16358),

Gene: Josuke_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Josuke_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Jumboset_18 Start: 12567, Stop: 15128, Start Num: 30
Candidate Starts for Jumboset_18:

(24, 12546), (Start: 30 @12567 has 55 MA's), (35, 12615), (41, 12648), (47, 12696), (49, 12720), (52, 12732), (68, 12792), (79, 12840), (80, 12855), (81, 12861), (101, 12981), (107, 13023), (117, 13119), (118, 13122), (124, 13152), (130, 13206), (131, 13209), (148, 13347), (150, 13368), (156, 13392), (162, 13413), (164, 13422), (172, 13473), (175, 13491), (213, 13677), (246, 13821), (254, 13854), (263, 13881), (268, 13899), (272, 13905), (279, 13929), (280, 13938), (293, 13986), (301, 14013), (302, 14016), (307, 14037), (309, 14043), (311, 14049), (324, 14100), (327, 14115), (330, 14127), (331, 14133), (332, 14136), (334, 14145), (343, 14172), (348, 14184), (351, 14193), (354, 14205), (356, 14211), (361, 14232), (372, 14265), (383, 14304), (397, 14355), (399, 14358), (401, 14367), (402, 14370), (405, 14385), (421, 14475), (426, 14511), (445, 14619), (452, 14655), (466, 14751), (467, 14754), (477, 14808), (481, 14847), (488, 14895), (489, 14904), (492, 14928), (494, 14946), (504, 14997), (511, 15021), (514, 15039), (518, 15069),

Gene: Kaijohn_12 Start: 7545, Stop: 9650, Start Num: 38
Candidate Starts for Kaijohn_12:
(Start: 38 @7545 has 143 MA's), (Start: 43 @7566 has 3 MA's), (76, 7743), (79, 7752), (82, 7776), (92, 7848), (96, 7872), (98, 7878), (110, 7971), (116, 8028), (121, 8049), (123, 8061), (125, 8070), (150, 8277), (155, 8295), (183, 8382), (201, 8451), (215, 8463), (226, 8511), (239, 8541), (242, 8556), (250, 8592), (260, 8619), (265, 8640), (275, 8664), (281, 8688), (282, 8694), (289, 8721), (300, 8754), (310, 8793), (315, 8820), (320, 8841), (324, 8856), (339, 8883), (340, 8886), (347, 8907), (351, 8919), (353, 8925), (367, 8973), (391, 9057), (399, 9084), (404, 9105), (415, 9168), (429, 9249), (448, 9354), (454, 9387), (461, 9429), (465, 9450), (466, 9471), (487, 9600),

Gene: Kalizoi_18 Start: 12566, Stop: 15127, Start Num: 30
Candidate Starts for Kalizoi_18:
(24, 12545), (Start: 30 @12566 has 55 MA's), (35, 12614), (41, 12647), (47, 12695), (49, 12719), (52, 12731), (68, 12791), (79, 12839), (80, 12854), (81, 12860), (101, 12980), (107, 13022), (117, 13118), (118, 13121), (124, 13151), (130, 13205), (148, 13346), (150, 13367), (156, 13391), (162, 13412), (164, 13421), (172, 13472), (175, 13490), (213, 13676), (246, 13820), (254, 13853), (263, 13880), (268, 13898), (272, 13904), (279, 13928), (280, 13937), (293, 13985), (301, 14012), (302, 14015), (307, 14036), (311, 14048), (324, 14099), (327, 14114), (330, 14126), (332, 14135), (334, 14144), (343, 14171), (348, 14183), (351, 14192), (354, 14204), (356, 14210), (361, 14231), (369, 14255), (372, 14264), (383, 14303), (397, 14354), (399, 14357), (401, 14366), (402, 14369), (405, 14384), (421, 14474), (426, 14510), (445, 14618), (452, 14654), (466, 14750), (467, 14753), (477, 14807), (481, 14846), (488, 14894), (489, 14903), (492, 14927), (494, 14945), (504, 14996), (511, 15020), (514, 15038), (518, 15068),

Gene: KayPaulus_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for KayPaulus_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: Kevanna_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Kevanna_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367,

8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: KillerTomato_12 Start: 7586, Stop: 9691, Start Num: 38
Candidate Starts for KillerTomato_12:
(Start: 38 @7586 has 143 MA's), (Start: 43 @7607 has 3 MA's), (76, 7784), (79, 7793), (82, 7817), (92, 7889), (96, 7913), (98, 7919), (110, 8012), (116, 8069), (121, 8090), (123, 8102), (125, 8111), (150, 8318), (155, 8336), (183, 8423), (201, 8492), (215, 8504), (226, 8552), (239, 8582), (242, 8597), (250, 8633), (260, 8660), (267, 8684), (275, 8705), (281, 8729), (282, 8735), (289, 8762), (300, 8795), (310, 8834), (315, 8861), (320, 8882), (324, 8897), (339, 8924), (340, 8927), (347, 8948), (351, 8960), (353, 8966), (367, 9014), (376, 9050), (391, 9098), (399, 9125), (404, 9146), (415, 9209), (420, 9233), (429, 9290), (448, 9395), (451, 9416), (454, 9428), (461, 9470), (465, 9491), (466, 9512), (487, 9641),

Gene: King2_17 Start: 13484, Stop: 16066, Start Num: 9
Candidate Starts for King2_17:
(Start: 1 @13436 has 33 MA's), (Start: 9 @13484 has 1 MA's), (39, 13703), (47, 13766), (52, 13802), (65, 13850), (68, 13862), (84, 13943), (107, 14093), (112, 14150), (117, 14189), (121, 14207), (125, 14228), (127, 14237), (133, 14294), (134, 14300), (138, 14342), (143, 14378), (147, 14405), (156, 14462), (159, 14471), (164, 14492), (178, 14579), (182, 14603), (186, 14624), (190, 14645), (194, 14669), (203, 14708), (222, 14774), (223, 14777), (231, 14807), (241, 14843), (256, 14897), (259, 14903), (264, 14924), (299, 15032), (304, 15050), (309, 15068), (312, 15077), (314, 15089), (322, 15119), (327, 15131), (333, 15155), (340, 15179), (343, 15188), (347, 15197), (358, 15233), (363, 15254), (368, 15266), (373, 15287), (390, 15341), (401, 15374), (407, 15395), (408, 15404), (413, 15434), (419, 15461), (442, 15611), (446, 15623), (451, 15641), (466, 15722), (474, 15764), (478, 15785), (479, 15791), (485, 15830), (501, 15938), (507, 15959), (521, 16034),

Gene: KingBob_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for KingBob_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481), (386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Klevey_18 Start: 12975, Stop: 15557, Start Num: 1
Candidate Starts for Klevey_18:
(Start: 1 @12975 has 33 MA's), (26, 13161), (Start: 29 @13170 has 1 MA's), (57, 13359), (80, 13461), (84, 13479), (88, 13509), (107, 13629), (112, 13686), (117, 13725), (121, 13743), (125, 13764), (134, 13836), (138, 13878), (159, 14007), (178, 14115), (190, 14181), (194, 14205), (217, 14286), (223, 14313), (309, 14604), (314, 14625), (326, 14664), (339, 14712), (367, 14799), (401, 14910), (406, 14928), (407, 14931), (419, 14997), (485, 15333), (502, 15441), (512, 15462),

Gene: Kojax4_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Kojax4_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315,

8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Korra_19 Start: 12572, Stop: 15133, Start Num: 30
Candidate Starts for Korra_19:
(24, 12551), (Start: 30 @12572 has 55 MA's), (35, 12620), (41, 12653), (47, 12701), (49, 12725), (52, 12737), (68, 12797), (79, 12845), (80, 12860), (81, 12866), (101, 12986), (107, 13028), (117, 13124), (118, 13127), (124, 13157), (130, 13211), (148, 13352), (150, 13373), (156, 13397), (162, 13418), (164, 13427), (172, 13478), (175, 13496), (213, 13682), (246, 13826), (254, 13859), (263, 13886), (268, 13904), (272, 13910), (279, 13934), (280, 13943), (293, 13991), (301, 14018), (302, 14021), (307, 14042), (311, 14054), (324, 14105), (327, 14120), (330, 14132), (332, 14141), (334, 14150), (343, 14177), (348, 14189), (351, 14198), (354, 14210), (356, 14216), (361, 14237), (369, 14261), (372, 14270), (383, 14309), (397, 14360), (399, 14363), (401, 14372), (402, 14375), (405, 14390), (421, 14480), (426, 14516), (445, 14624), (452, 14660), (466, 14756), (467, 14759), (477, 14813), (481, 14852), (488, 14900), (489, 14909), (492, 14933), (494, 14951), (504, 15002), (511, 15026), (518, 15074),

Gene: KyriosFaba_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for KyriosFaba_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Lasagna_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for Lasagna_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (101, 10131), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: LaviMo_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for LaviMo_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Leafy_12 Start: 7556, Stop: 9661, Start Num: 38
Candidate Starts for Leafy_12:

(Start: 38 @7556 has 143 MA's), (Start: 43 @7577 has 3 MA's), (76, 7754), (79, 7763), (82, 7787), (92, 7859), (96, 7883), (98, 7889), (110, 7982), (116, 8039), (121, 8060), (123, 8072), (125, 8081), (150, 8288), (155, 8306), (183, 8393), (201, 8462), (215, 8474), (226, 8522), (239, 8552), (242, 8567), (260, 8630), (267, 8654), (275, 8675), (281, 8699), (282, 8705), (289, 8732), (300, 8765), (310, 8804), (316, 8837), (320, 8852), (324, 8867), (339, 8894), (340, 8897), (351, 8930), (353, 8936), (367, 8984), (391, 9068), (399, 9095), (404, 9116), (415, 9179), (420, 9203), (429, 9260), (448, 9365), (451, 9386), (454, 9398), (461, 9440), (465, 9461), (466, 9482), (487, 9611),

Gene: LeeroyJ_19 Start: 13748, Stop: 16381, Start Num: 1
Candidate Starts for LeeroyJ_19:
(Start: 1 @13748 has 33 MA's), (Start: 9 @13796 has 1 MA's), (27, 13946), (Start: 32 @13955 has 8 MA's), (47, 14078), (65, 14162), (88, 14285), (107, 14405), (112, 14462), (117, 14501), (121, 14519), (125, 14540), (127, 14549), (130, 14588), (134, 14612), (138, 14654), (147, 14717), (156, 14774), (182, 14915), (189, 14948), (192, 14972), (223, 15089), (249, 15188), (252, 15197), (256, 15209), (259, 15215), (264, 15236), (278, 15269), (304, 15362), (312, 15389), (314, 15401), (318, 15413), (322, 15431), (323, 15434), (327, 15443), (336, 15479), (342, 15497), (343, 15500), (347, 15509), (354, 15533), (358, 15545), (362, 15563), (363, 15566), (368, 15578), (377, 15614), (390, 15653), (401, 15686), (407, 15707), (412, 15737), (413, 15746), (419, 15773), (432, 15857), (439, 15902), (451, 15953), (466, 16034), (478, 16097), (479, 16103), (485, 16142), (500, 16247), (507, 16271), (517, 16319), (520, 16340),

Gene: LemonPepper_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for LemonPepper_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Lennox_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for Lennox_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (107, 10173), (117, 10269), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: LilStuart_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for LilStuart_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (107, 10173), (117, 10269), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402,

11520), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: Lilmac1015_19 Start: 12965, Stop: 15547, Start Num: 1
Candidate Starts for Lilmac1015_19:
(Start: 1 @12965 has 33 MA's), (26, 13151), (Start: 29 @13160 has 1 MA's), (57, 13349), (80, 13451), (88, 13499), (107, 13619), (112, 13676), (117, 13715), (121, 13733), (125, 13754), (138, 13868), (159, 13997), (178, 14105), (190, 14171), (194, 14195), (223, 14303), (249, 14402), (309, 14594), (314, 14615), (326, 14654), (358, 14759), (367, 14789), (401, 14900), (406, 14918), (407, 14921), (410, 14936), (419, 14987), (425, 15029), (485, 15323), (502, 15431), (512, 15452),

Gene: LionelHutz_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for LionelHutz_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Livingwater_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Livingwater_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: Loca_12 Start: 7559, Stop: 9664, Start Num: 38
Candidate Starts for Loca_12:
(Start: 38 @7559 has 143 MA's), (Start: 43 @7580 has 3 MA's), (76, 7757), (79, 7766), (82, 7790), (92, 7862), (96, 7886), (98, 7892), (110, 7985), (116, 8042), (121, 8063), (123, 8075), (125, 8084), (150, 8291), (155, 8309), (183, 8396), (201, 8465), (215, 8477), (226, 8525), (239, 8555), (242, 8570), (260, 8633), (275, 8678), (281, 8702), (282, 8708), (289, 8735), (300, 8768), (310, 8807), (320, 8855), (324, 8870), (339, 8897), (340, 8900), (351, 8933), (353, 8939), (367, 8987), (391, 9071), (399, 9098), (404, 9119), (415, 9182), (420, 9206), (429, 9263), (448, 9368), (451, 9389), (454, 9401), (461, 9443), (465, 9464), (466, 9485), (487, 9614),

Gene: Lola20_12 Start: 7538, Stop: 9646, Start Num: 38
Candidate Starts for Lola20_12:
(Start: 38 @7538 has 143 MA's), (Start: 43 @7559 has 3 MA's), (76, 7736), (79, 7745), (82, 7769), (92, 7841), (96, 7865), (98, 7871), (110, 7964), (116, 8021), (121, 8042), (123, 8054), (125, 8063), (150, 8270), (155, 8288), (183, 8375), (201, 8444), (215, 8456), (226, 8504), (239, 8534), (242, 8549), (250, 8585), (260, 8612), (275, 8657), (281, 8681), (282, 8687), (289, 8714), (300, 8747), (310, 8786), (315, 8813), (320, 8834), (324, 8849), (339, 8876), (340, 8879), (351, 8912), (353, 8918), (367, 8966), (376, 9002), (391, 9050), (399, 9077), (404, 9098), (415, 9161), (420, 9185), (429, 9242), (448, 9347), (451, 9368), (454, 9380), (461, 9422), (466, 9464), (487, 9596),

Gene: Lucy_14 Start: 9709, Stop: 12270, Start Num: 30

Candidate Starts for Lucy_14:
(24, 9688), (Start: 30 @9709 has 55 MA's), (35, 9757), (47, 9838), (49, 9862), (68, 9934), (79, 9982), (80, 9997), (81, 10003), (107, 10165), (117, 10261), (118, 10264), (124, 10294), (140, 10432), (150, 10510), (162, 10555), (164, 10564), (172, 10615), (175, 10633), (177, 10645), (181, 10669), (228, 10885), (248, 10975), (254, 10996), (263, 11023), (268, 11041), (272, 11047), (279, 11071), (280, 11080), (293, 11128), (301, 11155), (309, 11185), (324, 11242), (327, 11257), (330, 11269), (331, 11275), (332, 11278), (334, 11287), (343, 11314), (348, 11326), (351, 11335), (354, 11347), (356, 11353), (362, 11377), (369, 11398), (372, 11407), (375, 11422), (383, 11446), (388, 11464), (397, 11497), (399, 11500), (402, 11512), (415, 11587), (421, 11617), (426, 11653), (445, 11761), (448, 11773), (452, 11797), (466, 11893), (467, 11896), (477, 11950), (481, 11989), (483, 12007), (488, 12037), (489, 12046), (492, 12070), (505, 12145), (511, 12163), (518, 12211),

Gene: Lunatic_12 Start: 7531, Stop: 9636, Start Num: 38
Candidate Starts for Lunatic_12:
(Start: 38 @7531 has 143 MA's), (Start: 43 @7552 has 3 MA's), (76, 7729), (79, 7738), (82, 7762), (92, 7834), (96, 7858), (110, 7957), (116, 8014), (121, 8035), (123, 8047), (125, 8056), (150, 8263), (155, 8281), (183, 8368), (201, 8437), (215, 8449), (226, 8497), (239, 8527), (242, 8542), (265, 8626), (267, 8629), (275, 8650), (282, 8680), (289, 8707), (300, 8740), (310, 8779), (315, 8806), (316, 8812), (320, 8827), (324, 8842), (340, 8872), (347, 8893), (351, 8905), (353, 8911), (367, 8959), (376, 8995), (391, 9043), (399, 9070), (404, 9091), (415, 9154), (420, 9178), (429, 9235), (448, 9340), (451, 9361), (461, 9415), (465, 9436), (466, 9457),

Gene: Luxx_12 Start: 7564, Stop: 9669, Start Num: 38
Candidate Starts for Luxx_12:
(Start: 38 @7564 has 143 MA's), (Start: 43 @7585 has 3 MA's), (76, 7762), (79, 7771), (82, 7795), (92, 7867), (96, 7891), (98, 7897), (116, 8047), (121, 8068), (123, 8080), (125, 8089), (150, 8296), (155, 8314), (183, 8401), (201, 8470), (215, 8482), (226, 8530), (239, 8560), (242, 8575), (250, 8611), (260, 8638), (265, 8659), (275, 8683), (281, 8707), (282, 8713), (289, 8740), (300, 8773), (310, 8812), (315, 8839), (320, 8860), (324, 8875), (339, 8902), (340, 8905), (347, 8926), (351, 8938), (353, 8944), (367, 8992), (388, 9067), (391, 9076), (399, 9103), (404, 9124), (415, 9187), (420, 9211), (429, 9268), (448, 9373), (451, 9394), (454, 9406), (461, 9448), (465, 9469), (466, 9490),

Gene: Madebyisha_12 Start: 7627, Stop: 9732, Start Num: 38
Candidate Starts for Madebyisha_12:
(Start: 38 @7627 has 143 MA's), (Start: 43 @7648 has 3 MA's), (76, 7825), (79, 7834), (82, 7858), (92, 7930), (96, 7954), (98, 7960), (116, 8110), (121, 8131), (123, 8143), (125, 8152), (150, 8359), (155, 8377), (183, 8464), (201, 8533), (215, 8545), (226, 8593), (239, 8623), (242, 8638), (260, 8701), (265, 8722), (275, 8746), (281, 8770), (282, 8776), (289, 8803), (300, 8836), (310, 8875), (315, 8902), (320, 8923), (324, 8938), (339, 8965), (340, 8968), (347, 8989), (351, 9001), (353, 9007), (367, 9055), (376, 9091), (388, 9130), (391, 9139), (399, 9166), (404, 9187), (415, 9250), (420, 9274), (429, 9331), (448, 9436), (451, 9457), (454, 9469), (461, 9511), (465, 9532), (466, 9553), (487, 9682),

Gene: Majesty_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Majesty_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Makoto_14 Start: 9718, Stop: 12279, Start Num: 30

Candidate Starts for Makoto_14:
(24, 9697), (Start: 30 @9718 has 55 MA's), (35, 9766), (47, 9847), (49, 9871), (68, 9943), (79, 9991), (80, 10006), (81, 10012), (107, 10174), (117, 10270), (124, 10303), (140, 10441), (150, 10519), (162, 10564), (164, 10573), (172, 10624), (175, 10642), (177, 10654), (181, 10678), (228, 10894), (254, 11005), (263, 11032), (268, 11050), (272, 11056), (279, 11080), (280, 11089), (293, 11137), (301, 11164), (309, 11194), (324, 11251), (327, 11266), (330, 11278), (331, 11284), (332, 11287), (334, 11296), (343, 11323), (348, 11335), (351, 11344), (354, 11356), (356, 11362), (362, 11386), (369, 11407), (372, 11416), (375, 11431), (383, 11455), (397, 11506), (399, 11509), (402, 11521), (415, 11596), (421, 11626), (426, 11662), (445, 11770), (448, 11782), (452, 11806), (466, 11902), (467, 11905), (471, 11938), (477, 11959), (483, 12016), (488, 12046), (489, 12055), (492, 12079), (505, 12154), (518, 12220),

Gene: ManAs_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for ManAs_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Maneater_12 Start: 7528, Stop: 9633, Start Num: 38
Candidate Starts for Maneater_12:
(Start: 38 @7528 has 143 MA's), (Start: 43 @7549 has 3 MA's), (76, 7726), (79, 7735), (82, 7759), (92, 7831), (96, 7855), (98, 7861), (116, 8011), (121, 8032), (123, 8044), (125, 8053), (150, 8260), (155, 8278), (183, 8365), (201, 8434), (215, 8446), (226, 8494), (239, 8524), (242, 8539), (250, 8575), (260, 8602), (265, 8623), (275, 8647), (281, 8671), (282, 8677), (289, 8704), (300, 8737), (310, 8776), (315, 8803), (320, 8824), (324, 8839), (339, 8866), (340, 8869), (347, 8890), (351, 8902), (353, 8908), (367, 8956), (388, 9031), (391, 9040), (399, 9067), (404, 9088), (415, 9151), (420, 9175), (429, 9232), (448, 9337), (451, 9358), (454, 9370), (461, 9412), (465, 9433), (466, 9454),

Gene: Maria1952_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for Maria1952_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481), (386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Marichuy_12 Start: 7639, Stop: 9744, Start Num: 38
Candidate Starts for Marichuy_12:
(Start: 38 @7639 has 143 MA's), (Start: 43 @7660 has 3 MA's), (76, 7837), (79, 7846), (82, 7870), (92, 7942), (96, 7966), (98, 7972), (116, 8122), (121, 8143), (123, 8155), (125, 8164), (150, 8371), (155, 8389), (183, 8476), (201, 8545), (215, 8557), (226, 8605), (239, 8635), (242, 8650), (250, 8686), (260, 8713), (265, 8734), (275, 8758), (281, 8782), (282, 8788), (289, 8815), (300, 8848), (310, 8887), (315, 8914), (320, 8935), (324, 8950), (339, 8977), (340, 8980), (347, 9001), (351, 9013), (353, 9019), (367, 9067), (388, 9142), (391, 9151), (399, 9178), (404, 9199), (415, 9262), (420, 9286), (429, 9343), (448,

9448), (451, 9469), (454, 9481), (461, 9523), (465, 9544), (466, 9565), (487, 9694),

Gene: Martha_19 Start: 13710, Stop: 16340, Start Num: 1
Candidate Starts for Martha_19:
(Start: 1 @13710 has 33 MA's), (Start: 9 @13758 has 1 MA's), (21, 13869), (39, 13977), (47, 14040), (65, 14124), (84, 14217), (107, 14367), (112, 14424), (117, 14463), (121, 14481), (125, 14502), (127, 14511), (134, 14574), (138, 14616), (143, 14652), (147, 14679), (180, 14865), (186, 14898), (203, 14982), (223, 15051), (244, 15126), (249, 15150), (251, 15156), (256, 15171), (259, 15177), (262, 15189), (266, 15201), (309, 15342), (312, 15351), (314, 15363), (333, 15429), (343, 15462), (347, 15471), (354, 15495), (358, 15507), (368, 15540), (390, 15615), (401, 15648), (407, 15669), (408, 15678), (419, 15735), (425, 15777), (432, 15819), (451, 15915), (466, 15996), (474, 16038), (478, 16059), (479, 16065), (485, 16104), (500, 16206), (507, 16230), (517, 16278), (520, 16299),

Gene: MasterPitts_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for MasterPitts_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472), (487, 9601),

Gene: MauiIvory_11 Start: 7646, Stop: 9751, Start Num: 38
Candidate Starts for MauiIvory_11:
(Start: 38 @7646 has 143 MA's), (Start: 43 @7667 has 3 MA's), (76, 7844), (79, 7853), (82, 7877), (92, 7949), (96, 7973), (110, 8072), (121, 8150), (123, 8162), (125, 8171), (150, 8378), (155, 8396), (183, 8483), (201, 8552), (215, 8564), (226, 8612), (239, 8642), (242, 8657), (265, 8741), (267, 8744), (275, 8765), (282, 8795), (289, 8822), (300, 8855), (310, 8894), (315, 8921), (316, 8927), (320, 8942), (324, 8957), (340, 8987), (347, 9008), (351, 9020), (353, 9026), (367, 9074), (376, 9110), (391, 9158), (399, 9185), (404, 9206), (415, 9269), (420, 9293), (429, 9350), (448, 9455), (451, 9476), (461, 9530), (465, 9551), (466, 9572),

Gene: McShie_12 Start: 7529, Stop: 9634, Start Num: 38
Candidate Starts for McShie_12:
(Start: 38 @7529 has 143 MA's), (Start: 43 @7550 has 3 MA's), (76, 7727), (79, 7736), (82, 7760), (92, 7832), (96, 7856), (98, 7862), (110, 7955), (116, 8012), (121, 8033), (123, 8045), (125, 8054), (150, 8261), (155, 8279), (183, 8366), (201, 8435), (215, 8447), (226, 8495), (239, 8525), (242, 8540), (260, 8603), (265, 8624), (267, 8627), (282, 8678), (289, 8705), (300, 8738), (310, 8777), (315, 8804), (320, 8825), (324, 8840), (339, 8867), (347, 8891), (351, 8903), (353, 8909), (367, 8957), (391, 9041), (399, 9068), (404, 9089), (415, 9152), (420, 9176), (429, 9233), (448, 9338), (451, 9359), (454, 9371), (461, 9413), (465, 9434), (466, 9455), (487, 9584),

Gene: Megan_30 Start: 21999, Stop: 24323, Start Num: 32
Candidate Starts for Megan_30:
(23, 21969), (Start: 32 @21999 has 8 MA's), (55, 22179), (58, 22188), (65, 22215), (79, 22275), (94, 22383), (107, 22461), (116, 22554), (118, 22560), (124, 22590), (142, 22737), (165, 22860), (169, 22872), (184, 22938), (186, 22959), (208, 23064), (209, 23070), (221, 23118), (244, 23202), (256, 23250), (304, 23409), (310, 23433), (316, 23466), (333, 23502), (337, 23517), (339, 23523), (353, 23565), (361, 23598), (367, 23613), (370, 23625), (376, 23649), (381, 23664), (391, 23697), (404, 23745), (407, 23757), (415, 23808), (416, 23811), (424, 23856), (430, 23895), (434, 23928), (457, 24045), (461, 24069), (463, 24078), (492, 24279), (495, 24309), (496, 24312),

Gene: MeganNoll_18 Start: 12624, Stop: 15185, Start Num: 30
Candidate Starts for MeganNoll_18:
(24, 12603), (Start: 30 @12624 has 55 MA's), (35, 12672), (41, 12705), (47, 12753), (49, 12777), (52, 12789), (68, 12849), (79, 12897), (80, 12912), (81, 12918), (101, 13038), (107, 13080), (117, 13176), (118, 13179), (124, 13209), (130, 13263), (131, 13266), (148, 13404), (150, 13425), (156, 13449), (162, 13470), (164, 13479), (172, 13530), (175, 13548), (213, 13734), (246, 13878), (254, 13911), (263, 13938), (268, 13956), (272, 13962), (279, 13986), (280, 13995), (293, 14043), (301, 14070), (302, 14073), (307, 14094), (309, 14100), (311, 14106), (324, 14157), (327, 14172), (330, 14184), (331, 14190), (332, 14193), (334, 14202), (343, 14229), (348, 14241), (351, 14250), (354, 14262), (356, 14268), (361, 14289), (372, 14322), (383, 14361), (397, 14412), (399, 14415), (401, 14424), (402, 14427), (405, 14442), (421, 14532), (426, 14568), (445, 14676), (452, 14712), (466, 14808), (467, 14811), (477, 14865), (481, 14904), (488, 14952), (489, 14961), (492, 14985), (494, 15003), (504, 15054), (511, 15078), (514, 15096), (518, 15126),

Gene: MelBee03_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for MelBee03_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: Miaurora_12 Start: 7648, Stop: 9753, Start Num: 38
Candidate Starts for Miaurora_12:
(Start: 38 @7648 has 143 MA's), (Start: 43 @7669 has 3 MA's), (76, 7846), (79, 7855), (82, 7879), (92, 7951), (96, 7975), (110, 8074), (116, 8131), (121, 8152), (123, 8164), (125, 8173), (150, 8380), (155, 8398), (183, 8485), (201, 8554), (215, 8566), (226, 8614), (239, 8644), (242, 8659), (256, 8713), (265, 8743), (267, 8746), (275, 8767), (282, 8797), (289, 8824), (300, 8857), (310, 8896), (315, 8923), (316, 8929), (320, 8944), (324, 8959), (339, 8986), (340, 8989), (347, 9010), (351, 9022), (353, 9028), (367, 9076), (376, 9112), (391, 9160), (399, 9187), (404, 9208), (415, 9271), (420, 9295), (429, 9352), (448, 9457), (451, 9478), (461, 9532), (465, 9553), (466, 9574),

Gene: Minima_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Minima_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: MirimarMandM_12 Start: 7615, Stop: 9720, Start Num: 38
Candidate Starts for MirimarMandM_12:
(Start: 38 @7615 has 143 MA's), (Start: 43 @7636 has 3 MA's), (76, 7813), (79, 7822), (82, 7846), (92, 7918), (96, 7942), (110, 8041), (116, 8098), (121, 8119), (123, 8131), (125, 8140), (150, 8347), (155, 8365), (183, 8452), (201, 8521), (215, 8533), (226, 8581), (239, 8611), (242, 8626), (256, 8680), (265, 8710), (267, 8713), (275, 8734), (282, 8764), (289, 8791), (300, 8824), (310, 8863), (315, 8890), (316, 8896), (320, 8911), (324, 8926), (340, 8956), (347, 8977), (351, 8989), (353, 8995), (367, 9043), (376, 9079), (391, 9127), (399, 9154), (404, 9175), (415, 9238), (420, 9262), (429, 9319), (448, 9424), (451, 9445), (454, 9457), (461, 9499), (465, 9520), (466, 9541),

Gene: MrGloopy_18 Start: 12558, Stop: 15119, Start Num: 30
Candidate Starts for MrGloopy_18:
(24, 12537), (Start: 30 @12558 has 55 MA's), (35, 12606), (41, 12639), (47, 12687), (49, 12711), (52, 12723), (68, 12783), (79, 12831), (80, 12846), (81, 12852), (101, 12972), (107, 13014), (117, 13110), (118, 13113), (124, 13143), (130, 13197), (148, 13338), (150, 13359), (156, 13383), (162, 13404), (164, 13413), (172, 13464), (175, 13482), (213, 13668), (246, 13812), (254, 13845), (263, 13872), (268, 13890), (272, 13896), (279, 13920), (280, 13929), (293, 13977), (301, 14004), (309, 14034), (311, 14040), (324, 14091), (327, 14106), (330, 14118), (331, 14124), (332, 14127), (334, 14136), (343, 14163), (348, 14175), (351, 14184), (354, 14196), (356, 14202), (361, 14223), (372, 14256), (383, 14295), (397, 14346), (399, 14349), (401, 14358), (402, 14361), (405, 14376), (421, 14466), (426, 14502), (445, 14610), (452, 14646), (466, 14742), (467, 14745), (477, 14799), (481, 14838), (488, 14886), (489, 14895), (492, 14919), (494, 14937), (504, 14988), (511, 15012), (514, 15030), (518, 15060),

Gene: MrGreen_12 Start: 7553, Stop: 9658, Start Num: 38
Candidate Starts for MrGreen_12:
(Start: 38 @7553 has 143 MA's), (Start: 43 @7574 has 3 MA's), (76, 7751), (79, 7760), (82, 7784), (92, 7856), (96, 7880), (98, 7886), (110, 7979), (116, 8036), (121, 8057), (123, 8069), (125, 8078), (150, 8285), (155, 8303), (183, 8390), (201, 8459), (215, 8471), (226, 8519), (239, 8549), (242, 8564), (260, 8627), (267, 8651), (275, 8672), (281, 8696), (282, 8702), (289, 8729), (300, 8762), (310, 8801), (316, 8834), (320, 8849), (324, 8864), (339, 8891), (351, 8927), (353, 8933), (367, 8981), (391, 9065), (399, 9092), (404, 9113), (415, 9176), (420, 9200), (429, 9257), (448, 9362), (451, 9383), (454, 9395), (461, 9437), (465, 9458), (466, 9479), (487, 9608),

Gene: Music_19 Start: 15190, Stop: 18339, Start Num: 13
Candidate Starts for Music_19:
(Start: 13 @15190 has 3 MA's), (16, 15211), (18, 15235), (47, 15385), (67, 15439), (72, 15463), (92, 15574), (103, 15631), (104, 15640), (109, 15673), (115, 15745), (137, 15892), (139, 15910), (146, 15958), (150, 16000), (181, 16147), (274, 16453), (301, 16528), (341, 16663), (354, 16696), (356, 16702), (362, 16723), (382, 16780), (401, 16834), (412, 16885), (444, 16975), (466, 17077), (480, 17146), (491, 17233), (497, 17272), (516, 17368), (522, 17407), (530, 17452), (532, 17485), (533, 17503), (536, 17542), (540, 17575), (543, 17614), (550, 17749), (551, 17752), (553, 17836), (554, 17860), (559, 17929), (562, 18001), (567, 18070), (569, 18109), (570, 18163), (577, 18238), (580, 18286),

Gene: Myram_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Myram_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Naby_12 Start: 7240, Stop: 9339, Start Num: 38
Candidate Starts for Naby_12:
(Start: 38 @7240 has 143 MA's), (41, 7255), (Start: 43 @7261 has 3 MA's), (48, 7321), (61, 7375), (76, 7438), (79, 7447), (82, 7471), (92, 7543), (96, 7567), (110, 7666), (116, 7723), (123, 7756), (125, 7765), (167, 8032), (183, 8077), (212, 8149), (219, 8179), (239, 8236), (242, 8251), (261, 8320), (277, 8365), (281, 8383), (282, 8389), (300, 8449), (301, 8455), (305, 8470), (310, 8488), (315, 8515), (333, 8557), (347, 8602), (353, 8620), (359, 8647), (386, 8734), (391, 8752), (399, 8779), (408, 8821), (415,

8863), (416, 8866), (420, 8887), (437, 8998), (451, 9070), (454, 9082), (459, 9112), (461, 9124), (465, 9145), (467, 9169), (482, 9253), (487, 9289),

Gene: Namsahir_12 Start: 7603, Stop: 9708, Start Num: 38
Candidate Starts for Namsahir_12:
(Start: 38 @7603 has 143 MA's), (Start: 43 @7624 has 3 MA's), (76, 7801), (79, 7810), (82, 7834), (92, 7906), (96, 7930), (110, 8029), (121, 8107), (123, 8119), (125, 8128), (150, 8335), (155, 8353), (183, 8440), (201, 8509), (215, 8521), (226, 8569), (239, 8599), (242, 8614), (256, 8668), (265, 8698), (267, 8701), (275, 8722), (282, 8752), (289, 8779), (300, 8812), (310, 8851), (315, 8878), (316, 8884), (320, 8899), (324, 8914), (339, 8941), (340, 8944), (347, 8965), (351, 8977), (353, 8983), (367, 9031), (376, 9067), (391, 9115), (399, 9142), (404, 9163), (415, 9226), (420, 9250), (429, 9307), (448, 9412), (451, 9433), (461, 9487), (465, 9508), (466, 9529),

Gene: Nancia_14 Start: 9717, Stop: 12278, Start Num: 30
Candidate Starts for Nancia_14:
(24, 9696), (Start: 30 @9717 has 55 MA's), (35, 9765), (47, 9846), (49, 9870), (68, 9942), (79, 9990), (80, 10005), (81, 10011), (101, 10131), (107, 10173), (117, 10269), (118, 10272), (124, 10302), (140, 10440), (150, 10518), (162, 10563), (164, 10572), (172, 10623), (175, 10641), (177, 10653), (181, 10677), (228, 10893), (248, 10983), (254, 11004), (263, 11031), (268, 11049), (272, 11055), (279, 11079), (280, 11088), (293, 11136), (301, 11163), (309, 11193), (324, 11250), (327, 11265), (330, 11277), (331, 11283), (332, 11286), (334, 11295), (343, 11322), (348, 11334), (351, 11343), (354, 11355), (356, 11361), (362, 11385), (369, 11406), (372, 11415), (375, 11430), (383, 11454), (397, 11505), (399, 11508), (402, 11520), (415, 11595), (421, 11625), (426, 11661), (445, 11769), (448, 11781), (452, 11805), (466, 11901), (467, 11904), (471, 11937), (477, 11958), (481, 11997), (483, 12015), (488, 12045), (489, 12054), (492, 12078), (505, 12153), (518, 12219),

Gene: Nandito_18 Start: 13061, Stop: 15646, Start Num: 1
Candidate Starts for Nandito_18:
(Start: 1 @13061 has 33 MA's), (Start: 29 @13259 has 1 MA's), (57, 13448), (62, 13466), (80, 13550), (88, 13598), (107, 13718), (112, 13775), (116, 13811), (117, 13814), (121, 13832), (125, 13853), (138, 13967), (159, 14096), (179, 14207), (190, 14270), (194, 14294), (203, 14333), (217, 14375), (223, 14402), (309, 14693), (314, 14714), (332, 14777), (342, 14810), (347, 14822), (401, 14999), (407, 15020), (419, 15086), (474, 15356), (485, 15422),

Gene: NathanVaag_17 Start: 13446, Stop: 16073, Start Num: 1
Candidate Starts for NathanVaag_17:
(Start: 1 @13446 has 33 MA's), (Start: 9 @13494 has 1 MA's), (39, 13713), (47, 13776), (52, 13812), (65, 13860), (68, 13872), (84, 13953), (88, 13983), (107, 14103), (112, 14160), (117, 14199), (121, 14217), (125, 14238), (127, 14247), (134, 14310), (138, 14352), (143, 14388), (147, 14415), (182, 14613), (189, 14646), (217, 14760), (223, 14787), (236, 14835), (249, 14886), (259, 14913), (266, 14937), (299, 15042), (304, 15060), (309, 15078), (312, 15087), (314, 15099), (322, 15129), (327, 15141), (340, 15189), (343, 15198), (347, 15207), (358, 15243), (362, 15261), (368, 15276), (382, 15327), (390, 15351), (401, 15384), (407, 15405), (408, 15414), (413, 15444), (419, 15471), (425, 15513), (438, 15597), (442, 15621), (446, 15633), (451, 15651), (466, 15729), (474, 15771), (478, 15792), (479, 15798), (485, 15837), (507, 15966), (521, 16041),

Gene: NeumannU_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for NeumannU_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367,

8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Niffler_12 Start: 7621, Stop: 9726, Start Num: 38
Candidate Starts for Niffler_12:
(Start: 38 @7621 has 143 MA's), (Start: 43 @7642 has 3 MA's), (76, 7819), (79, 7828), (82, 7852), (92, 7924), (96, 7948), (110, 8047), (116, 8104), (121, 8125), (123, 8137), (125, 8146), (150, 8353), (155, 8371), (183, 8458), (201, 8527), (215, 8539), (226, 8587), (239, 8617), (242, 8632), (265, 8716), (267, 8719), (275, 8740), (282, 8770), (289, 8797), (300, 8830), (310, 8869), (315, 8896), (316, 8902), (320, 8917), (324, 8932), (340, 8962), (347, 8983), (351, 8995), (353, 9001), (367, 9049), (376, 9085), (391, 9133), (399, 9160), (404, 9181), (415, 9244), (420, 9268), (429, 9325), (448, 9430), (451, 9451), (461, 9505), (465, 9526), (466, 9547),

Gene: Nobel_12 Start: 7648, Stop: 9753, Start Num: 38
Candidate Starts for Nobel_12:
(Start: 38 @7648 has 143 MA's), (Start: 43 @7669 has 3 MA's), (76, 7846), (79, 7855), (82, 7879), (92, 7951), (96, 7975), (110, 8074), (116, 8131), (121, 8152), (123, 8164), (125, 8173), (150, 8380), (155, 8398), (183, 8485), (201, 8554), (215, 8566), (226, 8614), (239, 8644), (242, 8659), (265, 8743), (267, 8746), (275, 8767), (282, 8797), (289, 8824), (300, 8857), (310, 8896), (315, 8923), (316, 8929), (320, 8944), (324, 8959), (340, 8989), (347, 9010), (351, 9022), (353, 9028), (367, 9076), (376, 9112), (391, 9160), (399, 9187), (404, 9208), (415, 9271), (420, 9295), (429, 9352), (448, 9457), (451, 9478), (461, 9532), (465, 9553), (466, 9574),

Gene: Noelani_12 Start: 7514, Stop: 9619, Start Num: 38
Candidate Starts for Noelani_12:
(Start: 38 @7514 has 143 MA's), (Start: 43 @7535 has 3 MA's), (75, 7703), (76, 7712), (82, 7745), (92, 7817), (96, 7841), (116, 7997), (121, 8018), (125, 8039), (150, 8246), (155, 8264), (183, 8351), (201, 8420), (226, 8480), (239, 8510), (242, 8525), (250, 8561), (260, 8588), (265, 8609), (275, 8633), (281, 8657), (282, 8663), (289, 8690), (310, 8762), (315, 8789), (320, 8810), (324, 8825), (339, 8852), (340, 8855), (347, 8876), (351, 8888), (353, 8894), (367, 8942), (388, 9017), (391, 9026), (399, 9053), (404, 9074), (415, 9137), (420, 9161), (424, 9185), (429, 9218), (437, 9272), (451, 9344), (454, 9356), (461, 9398), (465, 9419), (466, 9440), (480, 9518), (487, 9569),

Gene: Nostromo_18 Start: 13716, Stop: 16340, Start Num: 2
Candidate Starts for Nostromo_18:
(Start: 2 @13716 has 2 MA's), (8, 13746), (14, 13812), (17, 13833), (21, 13869), (80, 14199), (107, 14367), (117, 14463), (121, 14481), (124, 14496), (150, 14712), (153, 14724), (156, 14736), (182, 14877), (192, 14931), (208, 14991), (221, 15039), (227, 15066), (238, 15102), (304, 15321), (306, 15327), (311, 15345), (319, 15375), (320, 15381), (333, 15426), (340, 15450), (343, 15459), (347, 15468), (358, 15504), (368, 15537), (372, 15552), (373, 15558), (376, 15570), (380, 15582), (383, 15591), (390, 15612), (409, 15678), (413, 15705), (417, 15726), (419, 15732), (451, 15912), (459, 15945), (466, 15993), (474, 16035), (478, 16056), (479, 16062), (485, 16101), (503, 16215),

Gene: OMalley_14 Start: 9738, Stop: 12296, Start Num: 30
Candidate Starts for OMalley_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (78, 10008), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018),

(488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: Oaklynn_12 Start: 7555, Stop: 9639, Start Num: 43
Candidate Starts for Oaklynn_12:
(Start: 38 @7534 has 143 MA's), (Start: 43 @7555 has 3 MA's), (76, 7732), (79, 7741), (82, 7765), (92, 7837), (96, 7861), (98, 7867), (116, 8017), (121, 8038), (123, 8050), (125, 8059), (150, 8266), (155, 8284), (183, 8371), (201, 8440), (215, 8452), (226, 8500), (239, 8530), (242, 8545), (260, 8608), (265, 8629), (267, 8632), (282, 8683), (289, 8710), (300, 8743), (310, 8782), (315, 8809), (320, 8830), (324, 8845), (339, 8872), (347, 8896), (351, 8908), (353, 8914), (367, 8962), (391, 9046), (399, 9073), (404, 9094), (415, 9157), (420, 9181), (424, 9205), (427, 9226), (448, 9343), (451, 9364), (454, 9376), (461, 9418), (465, 9439), (466, 9460), (487, 9589),

Gene: Octopus_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Octopus_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: OdetoJoy_12 Start: 7627, Stop: 9732, Start Num: 38
Candidate Starts for OdetoJoy_12:
(Start: 38 @7627 has 143 MA's), (Start: 43 @7648 has 3 MA's), (76, 7825), (79, 7834), (82, 7858), (92, 7930), (96, 7954), (98, 7960), (116, 8110), (121, 8131), (123, 8143), (125, 8152), (150, 8359), (155, 8377), (183, 8464), (201, 8533), (215, 8545), (226, 8593), (239, 8623), (242, 8638), (260, 8701), (265, 8722), (275, 8746), (281, 8770), (282, 8776), (289, 8803), (300, 8836), (310, 8875), (315, 8902), (320, 8923), (324, 8938), (339, 8965), (340, 8968), (347, 8989), (351, 9001), (353, 9007), (367, 9055), (376, 9091), (388, 9130), (391, 9139), (399, 9166), (404, 9187), (415, 9250), (420, 9274), (429, 9331), (448, 9436), (451, 9457), (454, 9469), (461, 9511), (465, 9532), (466, 9553), (487, 9682),

Gene: Orkz_22 Start: 13808, Stop: 15943, Start Num: 13
Candidate Starts for Orkz_22:
(Start: 13 @13808 has 3 MA's), (18, 13856), (31, 13913), (47, 14006), (67, 14060), (71, 14084), (74, 14093), (83, 14141), (85, 14150), (87, 14162), (104, 14264), (115, 14369), (133, 14480), (134, 14486), (144, 14573), (150, 14624), (161, 14666), (162, 14669), (181, 14771), (231, 14912), (240, 14936), (244, 14948), (253, 14981), (283, 15056), (285, 15062), (313, 15119), (321, 15143), (341, 15188), (352, 15212), (364, 15254), (371, 15275), (455, 15542), (463, 15584), (466, 15605), (467, 15608), (479, 15674), (485, 15713), (505, 15827), (515, 15863), (516, 15878), (519, 15893),

Gene: Otwor_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Otwor_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: OurGirlNessie_14 Start: 9709, Stop: 12270, Start Num: 30
Candidate Starts for OurGirlNessie_14:

(24, 9688), (Start: 30 @9709 has 55 MA's), (35, 9757), (47, 9838), (49, 9862), (68, 9934), (79, 9982), (80, 9997), (81, 10003), (107, 10165), (117, 10261), (124, 10294), (140, 10432), (150, 10510), (156, 10534), (162, 10555), (164, 10564), (172, 10615), (175, 10633), (177, 10645), (181, 10669), (228, 10885), (248, 10975), (254, 10996), (263, 11023), (268, 11041), (272, 11047), (279, 11071), (280, 11080), (293, 11128), (301, 11155), (309, 11185), (324, 11242), (327, 11257), (330, 11269), (331, 11275), (332, 11278), (334, 11287), (343, 11314), (348, 11326), (351, 11335), (354, 11347), (356, 11353), (362, 11377), (369, 11398), (372, 11407), (375, 11422), (383, 11446), (388, 11464), (397, 11497), (399, 11500), (402, 11512), (415, 11587), (421, 11617), (426, 11653), (430, 11674), (445, 11761), (448, 11773), (451, 11794), (452, 11797), (466, 11893), (467, 11896), (471, 11929), (477, 11950), (481, 11989), (483, 12007), (488, 12037), (489, 12046), (505, 12145), (518, 12211),

Gene: Owens_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Owens_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: PaoPu_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for PaoPu_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Piccoletto_17 Start: 13446, Stop: 16073, Start Num: 1
Candidate Starts for Piccoletto_17:
(Start: 1 @13446 has 33 MA's), (Start: 9 @13494 has 1 MA's), (39, 13713), (47, 13776), (52, 13812), (65, 13860), (68, 13872), (84, 13953), (88, 13983), (107, 14103), (112, 14160), (117, 14199), (121, 14217), (125, 14238), (127, 14247), (130, 14286), (134, 14310), (138, 14352), (143, 14388), (147, 14415), (182, 14613), (186, 14634), (190, 14655), (194, 14679), (200, 14700), (203, 14718), (217, 14760), (223, 14787), (231, 14817), (249, 14886), (259, 14913), (266, 14937), (299, 15042), (311, 15084), (312, 15087), (314, 15099), (322, 15129), (327, 15141), (333, 15165), (340, 15189), (343, 15198), (347, 15207), (358, 15243), (363, 15264), (368, 15276), (382, 15327), (390, 15351), (401, 15384), (407, 15405), (408, 15414), (413, 15444), (419, 15471), (425, 15513), (442, 15621), (446, 15633), (451, 15651), (466, 15729), (474, 15771), (478, 15792), (479, 15798), (485, 15837), (507, 15966), (521, 16041),

Gene: Picconator_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Picconator_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Picnic_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Picnic_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: PinkFriday_14 Start: 9750, Stop: 12308, Start Num: 30
Candidate Starts for PinkFriday_14:
(Start: 30 @9750 has 55 MA's), (33, 9759), (47, 9879), (79, 10023), (80, 10038), (107, 10206), (117, 10302), (126, 10347), (131, 10392), (156, 10575), (162, 10596), (164, 10605), (166, 10611), (170, 10623), (172, 10656), (187, 10743), (254, 11037), (261, 11058), (263, 11064), (268, 11082), (272, 11088), (279, 11112), (293, 11169), (301, 11196), (309, 11226), (311, 11232), (324, 11283), (327, 11298), (330, 11310), (332, 11319), (334, 11328), (343, 11355), (348, 11367), (351, 11376), (354, 11388), (356, 11394), (372, 11448), (376, 11466), (382, 11484), (383, 11487), (386, 11496), (388, 11505), (392, 11517), (397, 11538), (399, 11541), (402, 11553), (405, 11568), (420, 11652), (421, 11658), (426, 11694), (436, 11751), (445, 11802), (448, 11814), (456, 11859), (466, 11934), (467, 11937), (470, 11967), (471, 11970), (481, 12030), (483, 12048), (488, 12078), (489, 12087), (492, 12111), (493, 12123), (514, 12219), (518, 12249),

Gene: Pippa_19 Start: 13801, Stop: 16431, Start Num: 1
Candidate Starts for Pippa_19:
(Start: 1 @13801 has 33 MA's), (Start: 9 @13849 has 1 MA's), (21, 13960), (39, 14068), (47, 14131), (65, 14215), (84, 14308), (88, 14338), (107, 14458), (112, 14515), (117, 14554), (121, 14572), (125, 14593), (127, 14602), (130, 14641), (134, 14665), (138, 14707), (142, 14737), (147, 14770), (178, 14944), (182, 14968), (186, 14989), (190, 15010), (203, 15073), (223, 15142), (231, 15172), (249, 15241), (252, 15250), (259, 15268), (305, 15418), (309, 15433), (311, 15439), (312, 15442), (314, 15454), (320, 15475), (333, 15520), (342, 15550), (347, 15562), (354, 15586), (358, 15598), (368, 15631), (390, 15706), (394, 15721), (401, 15739), (407, 15760), (419, 15826), (432, 15910), (442, 15976), (446, 15988), (451, 16006), (474, 16129), (478, 16150), (479, 16156), (485, 16195), (500, 16297), (507, 16321), (517, 16369), (520, 16390),

Gene: PitaDog_14 Start: 9708, Stop: 12269, Start Num: 30
Candidate Starts for PitaDog_14:
(24, 9687), (Start: 30 @9708 has 55 MA's), (35, 9756), (47, 9837), (49, 9861), (68, 9933), (79, 9981), (80, 9996), (81, 10002), (107, 10164), (117, 10260), (124, 10293), (140, 10431), (150, 10509), (162, 10554), (164, 10563), (172, 10614), (175, 10632), (181, 10668), (228, 10884), (248, 10974), (254, 10995), (263, 11022), (268, 11040), (272, 11046), (279, 11070), (280, 11079), (293, 11127), (301, 11154), (309, 11184), (324, 11241), (327, 11256), (330, 11268), (331, 11274), (332, 11277), (334, 11286), (343, 11313), (348, 11325), (351, 11334), (354, 11346), (356, 11352), (362, 11376), (369, 11397), (372, 11406), (375, 11421), (383, 11445), (388, 11463), (397, 11496), (399, 11499), (402, 11511), (421, 11616), (426, 11652), (445, 11760), (448, 11772), (452, 11796), (466, 11892), (467, 11895), (471, 11928), (477, 11949), (481, 11988), (483, 12006), (488, 12036), (489, 12045), (492, 12069), (505, 12144), (518, 12210),

Gene: PoRanda_12 Start: 7615, Stop: 9720, Start Num: 38
Candidate Starts for PoRanda_12:
(Start: 38 @7615 has 143 MA's), (Start: 43 @7636 has 3 MA's), (76, 7813), (79, 7822), (82, 7846), (92, 7918), (96, 7942), (110, 8041), (116, 8098), (121, 8119), (123, 8131), (125, 8140), (150, 8347), (155,

8365), (183, 8452), (201, 8521), (215, 8533), (226, 8581), (239, 8611), (242, 8626), (256, 8680), (265, 8710), (267, 8713), (275, 8734), (282, 8764), (289, 8791), (300, 8824), (310, 8863), (315, 8890), (316, 8896), (320, 8911), (324, 8926), (340, 8956), (347, 8977), (351, 8989), (353, 8995), (367, 9043), (376, 9079), (391, 9127), (399, 9154), (404, 9175), (415, 9238), (420, 9262), (429, 9319), (448, 9424), (451, 9445), (454, 9457), (461, 9499), (465, 9520), (466, 9541),

Gene: Pondwater_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Pondwater_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Potatoes_18 Start: 12619, Stop: 15180, Start Num: 30
Candidate Starts for Potatoes_18:
(24, 12598), (Start: 30 @12619 has 55 MA's), (35, 12667), (41, 12700), (47, 12748), (49, 12772), (52, 12784), (68, 12844), (79, 12892), (80, 12907), (81, 12913), (101, 13033), (107, 13075), (116, 13168), (117, 13171), (118, 13174), (124, 13204), (130, 13258), (148, 13399), (150, 13420), (156, 13444), (162, 13465), (164, 13474), (172, 13525), (175, 13543), (179, 13567), (213, 13729), (246, 13873), (254, 13906), (263, 13933), (268, 13951), (272, 13957), (279, 13981), (280, 13990), (293, 14038), (301, 14065), (307, 14089), (309, 14095), (311, 14101), (324, 14152), (327, 14167), (330, 14179), (331, 14185), (332, 14188), (334, 14197), (343, 14224), (348, 14236), (351, 14245), (354, 14257), (356, 14263), (361, 14284), (372, 14317), (383, 14356), (397, 14407), (399, 14410), (401, 14419), (402, 14422), (405, 14437), (420, 14521), (421, 14527), (426, 14563), (445, 14671), (448, 14683), (452, 14707), (466, 14803), (467, 14806), (477, 14860), (481, 14899), (488, 14947), (489, 14956), (492, 14980), (494, 14998), (504, 15049), (511, 15073), (514, 15091), (518, 15121),

Gene: Prairie_18 Start: 12972, Stop: 15554, Start Num: 1
Candidate Starts for Prairie_18:
(Start: 1 @12972 has 33 MA's), (26, 13158), (Start: 29 @13167 has 1 MA's), (57, 13356), (80, 13458), (88, 13506), (107, 13626), (112, 13683), (117, 13722), (121, 13740), (125, 13761), (134, 13833), (138, 13875), (159, 14004), (178, 14112), (194, 14202), (223, 14310), (309, 14601), (314, 14622), (326, 14661), (367, 14796), (401, 14907), (406, 14925), (407, 14928), (419, 14994), (485, 15330), (502, 15438), (512, 15459),

Gene: Pterodactyl_14 Start: 9710, Stop: 12271, Start Num: 30
Candidate Starts for Pterodactyl_14:
(24, 9689), (Start: 30 @9710 has 55 MA's), (35, 9758), (47, 9839), (49, 9863), (68, 9935), (79, 9983), (80, 9998), (81, 10004), (107, 10166), (117, 10262), (124, 10295), (140, 10433), (150, 10511), (162, 10556), (164, 10565), (172, 10616), (175, 10634), (177, 10646), (181, 10670), (228, 10886), (254, 10997), (263, 11024), (268, 11042), (272, 11048), (279, 11072), (280, 11081), (293, 11129), (301, 11156), (309, 11186), (324, 11243), (327, 11258), (330, 11270), (331, 11276), (332, 11279), (334, 11288), (343, 11315), (348, 11327), (351, 11336), (354, 11348), (356, 11354), (362, 11378), (369, 11399), (372, 11408), (375, 11423), (383, 11447), (397, 11498), (399, 11501), (402, 11513), (415, 11588), (421, 11618), (426, 11654), (445, 11762), (448, 11774), (452, 11798), (466, 11894), (467, 11897), (471, 11930), (477, 11951), (481, 11990), (483, 12008), (488, 12038), (489, 12047), (505, 12146), (518, 12212),

Gene: Publix_12 Start: 7603, Stop: 9708, Start Num: 38
Candidate Starts for Publix_12:

(Start: 38 @7603 has 143 MA's), (Start: 43 @7624 has 3 MA's), (76, 7801), (79, 7810), (82, 7834), (92, 7906), (96, 7930), (110, 8029), (121, 8107), (123, 8119), (125, 8128), (150, 8335), (155, 8353), (183, 8440), (201, 8509), (215, 8521), (226, 8569), (239, 8599), (242, 8614), (256, 8668), (265, 8698), (267, 8701), (275, 8722), (282, 8752), (289, 8779), (300, 8812), (310, 8851), (315, 8878), (316, 8884), (320, 8899), (324, 8914), (339, 8941), (340, 8944), (347, 8965), (351, 8977), (353, 8983), (367, 9031), (376, 9067), (391, 9115), (399, 9142), (404, 9163), (415, 9226), (420, 9250), (429, 9307), (448, 9412), (451, 9433), (461, 9487), (465, 9508), (466, 9529),

Gene: Puddles3_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Puddles3_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: PuffyCat_12 Start: 7573, Stop: 9678, Start Num: 38
Candidate Starts for PuffyCat_12:
(Start: 38 @7573 has 143 MA's), (Start: 43 @7594 has 3 MA's), (76, 7771), (79, 7780), (82, 7804), (92, 7876), (96, 7900), (110, 7999), (116, 8056), (121, 8077), (123, 8089), (125, 8098), (150, 8305), (155, 8323), (183, 8410), (201, 8479), (215, 8491), (226, 8539), (239, 8569), (242, 8584), (265, 8668), (267, 8671), (275, 8692), (282, 8722), (289, 8749), (300, 8782), (310, 8821), (315, 8848), (316, 8854), (320, 8869), (324, 8884), (340, 8914), (347, 8935), (351, 8947), (353, 8953), (367, 9001), (376, 9037), (391, 9085), (399, 9112), (404, 9133), (415, 9196), (420, 9220), (429, 9277), (448, 9382), (451, 9403), (461, 9457), (465, 9478), (466, 9499),

Gene: Pumancara_14 Start: 9749, Stop: 12307, Start Num: 30
Candidate Starts for Pumancara_14:
(Start: 30 @9749 has 55 MA's), (33, 9758), (47, 9878), (79, 10022), (80, 10037), (107, 10205), (117, 10301), (126, 10346), (131, 10391), (156, 10574), (162, 10595), (164, 10604), (166, 10610), (170, 10622), (172, 10655), (187, 10742), (214, 10865), (232, 10940), (246, 11003), (254, 11036), (261, 11057), (263, 11063), (268, 11081), (272, 11087), (279, 11111), (288, 11153), (293, 11168), (295, 11174), (316, 11252), (325, 11285), (326, 11294), (331, 11315), (334, 11327), (343, 11354), (348, 11366), (351, 11375), (354, 11387), (356, 11393), (357, 11396), (362, 11417), (372, 11447), (376, 11465), (382, 11483), (383, 11486), (386, 11495), (388, 11504), (397, 11537), (399, 11540), (402, 11552), (405, 11567), (420, 11651), (421, 11657), (426, 11693), (436, 11750), (445, 11801), (448, 11813), (456, 11858), (466, 11933), (467, 11936), (470, 11966), (481, 12029), (488, 12077), (489, 12086), (492, 12110), (493, 12122), (518, 12248),

Gene: Quaker_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Quaker_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: RAP15_18 Start: 12624, Stop: 15185, Start Num: 30
Candidate Starts for RAP15_18:

(24, 12603), (Start: 30 @12624 has 55 MA's), (35, 12672), (41, 12705), (47, 12753), (49, 12777), (52, 12789), (68, 12849), (79, 12897), (80, 12912), (81, 12918), (101, 13038), (107, 13080), (117, 13176), (118, 13179), (124, 13209), (130, 13263), (131, 13266), (148, 13404), (150, 13425), (156, 13449), (162, 13470), (164, 13479), (172, 13530), (175, 13548), (213, 13734), (246, 13878), (254, 13911), (263, 13938), (268, 13956), (272, 13962), (279, 13986), (280, 13995), (293, 14043), (301, 14070), (302, 14073), (307, 14094), (309, 14100), (311, 14106), (324, 14157), (327, 14172), (330, 14184), (331, 14190), (332, 14193), (334, 14202), (343, 14229), (348, 14241), (351, 14250), (354, 14262), (356, 14268), (361, 14289), (372, 14322), (383, 14361), (397, 14412), (399, 14415), (401, 14424), (402, 14427), (405, 14442), (421, 14532), (426, 14568), (445, 14676), (452, 14712), (466, 14808), (467, 14811), (477, 14865), (481, 14904), (488, 14952), (489, 14961), (492, 14985), (494, 15003), (504, 15054), (511, 15078), (514, 15096), (518, 15126),

Gene: Rhogar_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Rhogar_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Rhysand_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Rhysand_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Riovina_14 Start: 9738, Stop: 12296, Start Num: 30
Candidate Starts for Riovina_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (78, 10008), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018), (488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: Rira_12 Start: 7579, Stop: 9684, Start Num: 38
Candidate Starts for Rira_12:
(Start: 38 @7579 has 143 MA's), (Start: 43 @7600 has 3 MA's), (76, 7777), (79, 7786), (82, 7810), (92, 7882), (96, 7906), (110, 8005), (121, 8083), (123, 8095), (125, 8104), (150, 8311), (155, 8329), (183, 8416), (201, 8485), (215, 8497), (226, 8545), (239, 8575), (242, 8590), (256, 8644), (265, 8674), (267, 8677), (275, 8698), (282, 8728), (289, 8755), (300, 8788), (310, 8827), (315, 8854), (316, 8860), (320, 8875), (324, 8890), (339, 8917), (340, 8920), (347, 8941), (351, 8953), (353, 8959), (367, 9007), (376, 9043), (391, 9091), (399, 9118), (404, 9139), (415, 9202), (420, 9226), (429, 9283), (448, 9388), (451, 9409), (461, 9463), (465, 9484), (466, 9505),

Gene: Riverdale_18 Start: 12554, Stop: 15115, Start Num: 30
Candidate Starts for Riverdale_18:
(24, 12533), (Start: 30 @12554 has 55 MA's), (35, 12602), (41, 12635), (47, 12683), (49, 12707), (52, 12719), (68, 12779), (79, 12827), (80, 12842), (81, 12848), (101, 12968), (107, 13010), (117, 13106), (118, 13109), (124, 13139), (130, 13193), (148, 13334), (150, 13355), (156, 13379), (162, 13400), (164, 13409), (172, 13460), (175, 13478), (246, 13808), (254, 13841), (263, 13868), (268, 13886), (272, 13892), (279, 13916), (280, 13925), (293, 13973), (301, 14000), (309, 14030), (311, 14036), (324, 14087), (327, 14102), (330, 14114), (331, 14120), (332, 14123), (343, 14159), (348, 14171), (351, 14180), (354, 14192), (356, 14198), (361, 14219), (372, 14252), (383, 14291), (388, 14309), (397, 14342), (399, 14345), (401, 14354), (402, 14357), (405, 14372), (421, 14462), (426, 14498), (445, 14606), (452, 14642), (456, 14663), (466, 14738), (467, 14741), (477, 14795), (481, 14834), (488, 14882), (489, 14891), (492, 14915), (494, 14933), (504, 14984), (511, 15008), (514, 15026), (518, 15056),

Gene: RoscoWindex_12 Start: 7553, Stop: 9658, Start Num: 38
Candidate Starts for RoscoWindex_12:
(Start: 38 @7553 has 143 MA's), (Start: 43 @7574 has 3 MA's), (76, 7751), (79, 7760), (82, 7784), (92, 7856), (96, 7880), (98, 7886), (116, 8036), (121, 8057), (123, 8069), (125, 8078), (150, 8285), (155, 8303), (183, 8390), (201, 8459), (215, 8471), (226, 8519), (239, 8549), (242, 8564), (250, 8600), (260, 8627), (265, 8648), (275, 8672), (281, 8696), (282, 8702), (289, 8729), (300, 8762), (310, 8801), (315, 8828), (320, 8849), (324, 8864), (339, 8891), (340, 8894), (347, 8915), (351, 8927), (353, 8933), (367, 8981), (388, 9056), (391, 9065), (399, 9092), (404, 9113), (415, 9176), (420, 9200), (429, 9257), (448, 9362), (451, 9383), (454, 9395), (461, 9437), (465, 9458), (466, 9479),

Gene: Rozby_18 Start: 12555, Stop: 15116, Start Num: 30
Candidate Starts for Rozby_18:
(24, 12534), (Start: 30 @12555 has 55 MA's), (35, 12603), (41, 12636), (47, 12684), (49, 12708), (52, 12720), (68, 12780), (79, 12828), (80, 12843), (81, 12849), (101, 12969), (107, 13011), (117, 13107), (118, 13110), (124, 13140), (130, 13194), (148, 13335), (150, 13356), (156, 13380), (162, 13401), (164, 13410), (172, 13461), (175, 13479), (213, 13665), (246, 13809), (254, 13842), (263, 13869), (268, 13887), (272, 13893), (279, 13917), (280, 13926), (293, 13974), (301, 14001), (309, 14031), (311, 14037), (324, 14088), (327, 14103), (330, 14115), (331, 14121), (332, 14124), (343, 14160), (348, 14172), (351, 14181), (354, 14193), (356, 14199), (361, 14220), (372, 14253), (383, 14292), (388, 14310), (397, 14343), (399, 14346), (401, 14355), (402, 14358), (405, 14373), (421, 14463), (426, 14499), (445, 14607), (452, 14643), (456, 14664), (466, 14739), (467, 14742), (477, 14796), (481, 14835), (488, 14883), (489, 14892), (492, 14916), (494, 14934), (504, 14985), (511, 15009), (514, 15027), (518, 15057),

Gene: Sachet_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Sachet_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Sage7_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Sage7_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155,

8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: SantasSleigh_12 Start: 7576, Stop: 9681, Start Num: 38
Candidate Starts for SantasSleigh_12:
(Start: 38 @7576 has 143 MA's), (Start: 43 @7597 has 3 MA's), (76, 7774), (79, 7783), (82, 7807), (92, 7879), (96, 7903), (98, 7909), (116, 8059), (121, 8080), (123, 8092), (125, 8101), (150, 8308), (155, 8326), (183, 8413), (201, 8482), (215, 8494), (226, 8542), (239, 8572), (242, 8587), (250, 8623), (260, 8650), (265, 8671), (275, 8695), (281, 8719), (282, 8725), (289, 8752), (300, 8785), (310, 8824), (315, 8851), (320, 8872), (324, 8887), (339, 8914), (340, 8917), (347, 8938), (351, 8950), (353, 8956), (367, 9004), (388, 9079), (391, 9088), (399, 9115), (404, 9136), (415, 9199), (420, 9223), (429, 9280), (448, 9385), (451, 9406), (454, 9418), (461, 9460), (465, 9481), (466, 9502),

Gene: Sara_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for Sara_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Savage2526_18 Start: 12618, Stop: 15179, Start Num: 30
Candidate Starts for Savage2526_18:
(24, 12597), (Start: 30 @12618 has 55 MA's), (35, 12666), (41, 12699), (47, 12747), (49, 12771), (52, 12783), (68, 12843), (79, 12891), (80, 12906), (81, 12912), (101, 13032), (107, 13074), (117, 13170), (118, 13173), (124, 13203), (130, 13257), (148, 13398), (150, 13419), (156, 13443), (162, 13464), (164, 13473), (172, 13524), (175, 13542), (213, 13728), (246, 13872), (254, 13905), (263, 13932), (268, 13950), (272, 13956), (279, 13980), (280, 13989), (293, 14037), (301, 14064), (309, 14094), (311, 14100), (324, 14151), (327, 14166), (330, 14178), (331, 14184), (332, 14187), (334, 14196), (343, 14223), (348, 14235), (351, 14244), (354, 14256), (356, 14262), (361, 14283), (369, 14307), (372, 14316), (383, 14355), (388, 14373), (397, 14406), (399, 14409), (401, 14418), (402, 14421), (405, 14436), (421, 14526), (426, 14562), (445, 14670), (452, 14706), (466, 14802), (467, 14805), (477, 14859), (481, 14898), (488, 14946), (489, 14955), (492, 14979), (494, 14997), (504, 15048), (511, 15072), (514, 15090), (518, 15120),

Gene: Scamander_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Scamander_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Scrunchy_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Scrunchy_12:

(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Scuttle_18 Start: 12623, Stop: 15184, Start Num: 30
Candidate Starts for Scuttle_18:
(24, 12602), (Start: 30 @12623 has 55 MA's), (35, 12671), (41, 12704), (47, 12752), (49, 12776), (52, 12788), (68, 12848), (79, 12896), (80, 12911), (81, 12917), (101, 13037), (107, 13079), (117, 13175), (118, 13178), (124, 13208), (130, 13262), (148, 13403), (150, 13424), (156, 13448), (162, 13469), (164, 13478), (172, 13529), (175, 13547), (179, 13571), (213, 13733), (246, 13877), (254, 13910), (263, 13937), (268, 13955), (272, 13961), (279, 13985), (280, 13994), (293, 14042), (301, 14069), (307, 14093), (309, 14099), (311, 14105), (324, 14156), (327, 14171), (330, 14183), (331, 14189), (332, 14192), (334, 14201), (343, 14228), (348, 14240), (351, 14249), (354, 14261), (356, 14267), (361, 14288), (372, 14321), (383, 14360), (397, 14411), (399, 14414), (401, 14423), (402, 14426), (405, 14441), (420, 14525), (421, 14531), (426, 14567), (445, 14675), (452, 14711), (466, 14807), (467, 14810), (477, 14864), (481, 14903), (488, 14951), (489, 14960), (492, 14984), (494, 15002), (504, 15053), (511, 15077), (514, 15095), (518, 15125),

Gene: SeaWolves_12 Start: 7540, Stop: 9645, Start Num: 38
Candidate Starts for SeaWolves_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Sergei_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for Sergei_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481), (386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Shade_19 Start: 13748, Stop: 16378, Start Num: 1
Candidate Starts for Shade_19:
(Start: 1 @13748 has 33 MA's), (Start: 9 @13796 has 1 MA's), (21, 13907), (39, 14015), (47, 14078), (65, 14162), (84, 14255), (88, 14285), (107, 14405), (112, 14462), (117, 14501), (121, 14519), (125, 14540), (127, 14549), (134, 14612), (138, 14654), (143, 14690), (147, 14717), (180, 14903), (186, 14936), (203, 15020), (223, 15089), (249, 15188), (252, 15197), (259, 15215), (262, 15227), (309, 15380), (311, 15386), (312, 15389), (314, 15401), (316, 15407), (320, 15422), (322, 15431), (333, 15467), (343, 15500), (347, 15509), (354, 15533), (358, 15545), (362, 15563), (368, 15578), (377,

15614), (390, 15653), (394, 15668), (401, 15686), (407, 15707), (408, 15716), (413, 15746), (419, 15773), (424, 15806), (425, 15815), (440, 15911), (442, 15923), (449, 15944), (451, 15953), (466, 16034), (474, 16076), (478, 16097), (479, 16103), (485, 16142), (500, 16244), (507, 16268), (517, 16316), (520, 16337),

Gene: Sicarius2_20 Start: 14249, Stop: 16888, Start Num: 1
Candidate Starts for Sicarius2_20:
(Start: 1 @14249 has 33 MA's), (Start: 9 @14294 has 1 MA's), (10, 14327), (39, 14513), (47, 14576), (60, 14645), (68, 14672), (80, 14735), (95, 14837), (98, 14846), (105, 14891), (113, 14981), (116, 14996), (117, 14999), (124, 15032), (138, 15152), (140, 15170), (156, 15272), (159, 15281), (171, 15323), (200, 15500), (201, 15512), (231, 15629), (251, 15704), (252, 15707), (256, 15719), (259, 15725), (262, 15737), (266, 15749), (298, 15851), (302, 15866), (309, 15890), (312, 15899), (314, 15911), (320, 15932), (323, 15944), (326, 15950), (328, 15956), (333, 15977), (343, 16010), (347, 16019), (348, 16022), (358, 16055), (361, 16070), (362, 16073), (367, 16085), (373, 16109), (377, 16124), (383, 16142), (389, 16160), (393, 16175), (395, 16181), (403, 16202), (407, 16217), (410, 16232), (414, 16262), (420, 16292), (425, 16325), (439, 16412), (442, 16433), (446, 16445), (451, 16463), (453, 16472), (464, 16517), (478, 16610), (479, 16616), (485, 16655), (507, 16778),

Gene: Sippinontea_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Sippinontea_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150, 8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: Slentz_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Slentz_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Slizam_12 Start: 7579, Stop: 9684, Start Num: 38
Candidate Starts for Slizam_12:
(Start: 38 @7579 has 143 MA's), (Start: 43 @7600 has 3 MA's), (76, 7777), (79, 7786), (82, 7810), (92, 7882), (96, 7906), (110, 8005), (121, 8083), (123, 8095), (125, 8104), (150, 8311), (155, 8329), (183, 8416), (201, 8485), (215, 8497), (226, 8545), (239, 8575), (242, 8590), (256, 8644), (265, 8674), (267, 8677), (275, 8698), (282, 8728), (289, 8755), (300, 8788), (310, 8827), (315, 8854), (316, 8860), (320, 8875), (324, 8890), (339, 8917), (340, 8920), (347, 8941), (351, 8953), (353, 8959), (367, 9007), (376, 9043), (391, 9091), (399, 9118), (404, 9139), (415, 9202), (420, 9226), (429, 9283), (448, 9388), (451, 9409), (461, 9463), (465, 9484), (466, 9505),

Gene: Snuffles_13 Start: 7751, Stop: 9856, Start Num: 38
Candidate Starts for Snuffles_13:
(Start: 38 @7751 has 143 MA's), (Start: 43 @7772 has 3 MA's), (76, 7949), (79, 7958), (82, 7982), (92, 8054), (96, 8078), (110, 8177), (121, 8255), (123, 8267), (125, 8276), (150, 8483), (155, 8501), (183, 8588), (201, 8657), (215, 8669), (226, 8717), (239, 8747), (242, 8762), (256, 8816), (265, 8846), (267,

8849), (275, 8870), (282, 8900), (289, 8927), (300, 8960), (310, 8999), (315, 9026), (316, 9032), (320, 9047), (324, 9062), (339, 9089), (340, 9092), (347, 9113), (351, 9125), (353, 9131), (367, 9179), (376, 9215), (391, 9263), (399, 9290), (404, 9311), (415, 9374), (420, 9398), (429, 9455), (448, 9560), (451, 9581), (461, 9635), (465, 9656), (466, 9677),

Gene: Sonny_19 Start: 13769, Stop: 16399, Start Num: 1
Candidate Starts for Sonny_19:
(Start: 1 @13769 has 33 MA's), (Start: 9 @13817 has 1 MA's), (21, 13928), (39, 14036), (47, 14099), (65, 14183), (84, 14276), (88, 14306), (107, 14426), (112, 14483), (117, 14522), (121, 14540), (125, 14561), (127, 14570), (134, 14633), (138, 14675), (143, 14711), (147, 14738), (180, 14924), (186, 14957), (203, 15041), (223, 15110), (249, 15209), (252, 15218), (259, 15236), (262, 15248), (301, 15374), (309, 15401), (311, 15407), (312, 15410), (314, 15422), (316, 15428), (320, 15443), (322, 15452), (333, 15488), (343, 15521), (347, 15530), (354, 15554), (358, 15566), (362, 15584), (368, 15599), (377, 15635), (390, 15674), (394, 15689), (401, 15707), (407, 15728), (408, 15737), (413, 15767), (419, 15794), (424, 15827), (425, 15836), (440, 15932), (442, 15944), (449, 15965), (451, 15974), (466, 16055), (474, 16097), (478, 16118), (479, 16124), (485, 16163), (500, 16265), (507, 16289), (517, 16337), (520, 16358),

Gene: Stem_12 Start: 7579, Stop: 9684, Start Num: 38
Candidate Starts for Stem_12:
(Start: 38 @7579 has 143 MA's), (Start: 43 @7600 has 3 MA's), (76, 7777), (79, 7786), (82, 7810), (92, 7882), (96, 7906), (110, 8005), (116, 8062), (121, 8083), (123, 8095), (125, 8104), (150, 8311), (155, 8329), (183, 8416), (201, 8485), (215, 8497), (226, 8545), (239, 8575), (242, 8590), (256, 8644), (265, 8674), (267, 8677), (275, 8698), (282, 8728), (289, 8755), (300, 8788), (310, 8827), (315, 8854), (316, 8860), (320, 8875), (324, 8890), (339, 8917), (340, 8920), (347, 8941), (351, 8953), (353, 8959), (367, 9007), (376, 9043), (391, 9091), (399, 9118), (404, 9139), (415, 9202), (420, 9226), (429, 9283), (448, 9388), (451, 9409), (461, 9463), (465, 9484), (466, 9505),

Gene: StevieBAY_19 Start: 13748, Stop: 16381, Start Num: 1
Candidate Starts for StevieBAY_19:
(Start: 1 @13748 has 33 MA's), (Start: 9 @13796 has 1 MA's), (27, 13946), (Start: 32 @13955 has 8 MA's), (47, 14078), (65, 14162), (88, 14285), (107, 14405), (112, 14462), (117, 14501), (121, 14519), (125, 14540), (127, 14549), (130, 14588), (134, 14612), (138, 14654), (147, 14717), (156, 14774), (182, 14915), (189, 14948), (192, 14972), (223, 15089), (249, 15188), (252, 15197), (256, 15209), (259, 15215), (264, 15236), (278, 15269), (304, 15362), (312, 15389), (314, 15401), (318, 15413), (322, 15431), (323, 15434), (327, 15443), (336, 15479), (342, 15497), (343, 15500), (347, 15509), (354, 15533), (358, 15545), (362, 15563), (363, 15566), (368, 15578), (377, 15614), (390, 15653), (401, 15686), (407, 15707), (412, 15737), (413, 15746), (419, 15773), (432, 15857), (439, 15902), (451, 15953), (466, 16034), (478, 16097), (479, 16103), (485, 16142), (500, 16247), (507, 16271), (517, 16319), (520, 16340),

Gene: SunnyJune_20 Start: 15224, Stop: 17671, Start Num: 12
Candidate Starts for SunnyJune_20:
(Start: 12 @15224 has 4 MA's), (18, 15272), (22, 15296), (50, 15464), (53, 15476), (73, 15554), (77, 15566), (93, 15662), (102, 15713), (111, 15800), (122, 15869), (128, 15899), (133, 15950), (136, 15980), (145, 16034), (148, 16058), (154, 16094), (158, 16109), (170, 16151), (173, 16190), (176, 16205), (202, 16343), (204, 16349), (216, 16379), (257, 16532), (275, 16574), (287, 16619), (294, 16643), (316, 16712), (352, 16829), (365, 16874), (413, 17051), (433, 17171), (443, 17225), (455, 17273), (462, 17303), (479, 17399), (485, 17438), (508, 17561), (520, 17630),

Gene: Supakev_14 Start: 9740, Stop: 12298, Start Num: 30
Candidate Starts for Supakev_14:

(Start: 30 @9740 has 55 MA's), (33, 9749), (34, 9779), (47, 9869), (68, 9965), (78, 10010), (80, 10028), (107, 10196), (117, 10292), (118, 10295), (121, 10310), (133, 10397), (166, 10601), (167, 10604), (178, 10688), (246, 10994), (263, 11054), (268, 11072), (272, 11078), (280, 11111), (283, 11123), (293, 11159), (301, 11186), (307, 11210), (309, 11216), (324, 11273), (329, 11297), (331, 11306), (335, 11321), (343, 11345), (348, 11357), (354, 11378), (356, 11384), (361, 11405), (369, 11429), (372, 11438), (376, 11456), (383, 11477), (385, 11483), (388, 11495), (397, 11528), (399, 11531), (402, 11543), (405, 11558), (406, 11561), (421, 11648), (435, 11738), (436, 11741), (445, 11792), (456, 11849), (458, 11858), (466, 11924), (467, 11927), (477, 11981), (481, 12020), (488, 12068), (489, 12077), (492, 12101), (493, 12113), (514, 12209), (518, 12239),

Gene: TaeYoung_19 Start: 13773, Stop: 16403, Start Num: 1
Candidate Starts for TaeYoung_19:
(Start: 1 @13773 has 33 MA's), (Start: 9 @13821 has 1 MA's), (21, 13932), (39, 14040), (47, 14103), (65, 14187), (84, 14280), (107, 14430), (112, 14487), (117, 14526), (121, 14544), (125, 14565), (127, 14574), (134, 14637), (138, 14679), (143, 14715), (147, 14742), (180, 14928), (186, 14961), (203, 15045), (223, 15114), (244, 15189), (249, 15213), (251, 15219), (256, 15234), (259, 15240), (262, 15252), (266, 15264), (309, 15405), (312, 15414), (314, 15426), (333, 15492), (343, 15525), (347, 15534), (354, 15558), (358, 15570), (368, 15603), (390, 15678), (401, 15711), (407, 15732), (408, 15741), (419, 15798), (425, 15840), (432, 15882), (451, 15978), (466, 16059), (474, 16101), (478, 16122), (479, 16128), (485, 16167), (500, 16269), (507, 16293), (517, 16341), (520, 16362),

Gene: TattModd_18 Start: 12617, Stop: 15178, Start Num: 30
Candidate Starts for TattModd_18:
(24, 12596), (Start: 30 @12617 has 55 MA's), (35, 12665), (41, 12698), (47, 12746), (49, 12770), (52, 12782), (68, 12842), (79, 12890), (80, 12905), (81, 12911), (101, 13031), (107, 13073), (117, 13169), (118, 13172), (124, 13202), (130, 13256), (148, 13397), (150, 13418), (156, 13442), (162, 13463), (164, 13472), (172, 13523), (175, 13541), (213, 13727), (246, 13871), (254, 13904), (263, 13931), (268, 13949), (272, 13955), (279, 13979), (280, 13988), (293, 14036), (301, 14063), (309, 14093), (311, 14099), (324, 14150), (327, 14165), (330, 14177), (331, 14183), (332, 14186), (334, 14195), (343, 14222), (348, 14234), (351, 14243), (354, 14255), (356, 14261), (361, 14282), (369, 14306), (372, 14315), (383, 14354), (388, 14372), (397, 14405), (399, 14408), (401, 14417), (402, 14420), (405, 14435), (421, 14525), (426, 14561), (445, 14669), (452, 14705), (466, 14801), (467, 14804), (477, 14858), (481, 14897), (488, 14945), (489, 14954), (492, 14978), (494, 14996), (504, 15047), (511, 15071), (514, 15089), (518, 15119),

Gene: TeddyBoy_12 Start: 7547, Stop: 9652, Start Num: 38
Candidate Starts for TeddyBoy_12:
(Start: 38 @7547 has 143 MA's), (Start: 43 @7568 has 3 MA's), (76, 7745), (79, 7754), (82, 7778), (92, 7850), (96, 7874), (98, 7880), (116, 8030), (121, 8051), (123, 8063), (125, 8072), (150, 8279), (155, 8297), (183, 8384), (201, 8453), (215, 8465), (226, 8513), (239, 8543), (242, 8558), (250, 8594), (260, 8621), (265, 8642), (275, 8666), (281, 8690), (282, 8696), (289, 8723), (300, 8756), (310, 8795), (315, 8822), (320, 8843), (324, 8858), (339, 8885), (340, 8888), (347, 8909), (351, 8921), (353, 8927), (367, 8975), (388, 9050), (391, 9059), (399, 9086), (404, 9107), (415, 9170), (420, 9194), (429, 9251), (448, 9356), (451, 9377), (454, 9389), (461, 9431), (465, 9452), (466, 9473),

Gene: Temper16_14 Start: 9744, Stop: 12302, Start Num: 30
Candidate Starts for Temper16_14:
(Start: 30 @9744 has 55 MA's), (33, 9753), (34, 9783), (47, 9873), (52, 9909), (79, 10017), (80, 10032), (107, 10200), (117, 10296), (156, 10569), (162, 10590), (171, 10620), (172, 10650), (187, 10737), (214, 10860), (232, 10935), (246, 10998), (254, 11031), (261, 11052), (263, 11058), (268, 11076), (272, 11082), (279, 11106), (288, 11148), (293, 11163), (295, 11169), (303, 11196), (316, 11247), (325, 11280), (326, 11289), (331, 11310), (334, 11322), (343, 11349), (348, 11361), (351, 11370), (354, 11382), (356, 11388), (357, 11391), (362, 11412), (372, 11442), (376, 11460), (383, 11481),

(386, 11490), (388, 11499), (397, 11532), (399, 11535), (402, 11547), (405, 11562), (420, 11646), (421, 11652), (426, 11688), (436, 11745), (437, 11754), (445, 11796), (456, 11853), (466, 11928), (467, 11931), (470, 11961), (477, 11985), (483, 12042), (488, 12072), (489, 12081), (492, 12105), (493, 12117), (518, 12243),

Gene: Timinator_19 Start: 13748, Stop: 16381, Start Num: 1
Candidate Starts for Timinator_19:
(Start: 1 @13748 has 33 MA's), (Start: 9 @13796 has 1 MA's), (27, 13946), (Start: 32 @13955 has 8 MA's), (47, 14078), (65, 14162), (88, 14285), (107, 14405), (112, 14462), (117, 14501), (121, 14519), (125, 14540), (127, 14549), (130, 14588), (134, 14612), (138, 14654), (147, 14717), (156, 14774), (182, 14915), (189, 14948), (192, 14972), (223, 15089), (249, 15188), (252, 15197), (256, 15209), (259, 15215), (264, 15236), (278, 15269), (304, 15362), (312, 15389), (314, 15401), (318, 15413), (322, 15431), (323, 15434), (327, 15443), (336, 15479), (342, 15497), (343, 15500), (347, 15509), (354, 15533), (358, 15545), (362, 15563), (363, 15566), (368, 15578), (377, 15614), (390, 15653), (401, 15686), (407, 15707), (412, 15737), (413, 15746), (419, 15773), (432, 15857), (439, 15902), (451, 15953), (466, 16034), (478, 16097), (479, 16103), (485, 16142), (500, 16247), (507, 16271), (517, 16319), (520, 16340),

Gene: TimoTea_12 Start: 7528, Stop: 9633, Start Num: 38
Candidate Starts for TimoTea_12:
(Start: 38 @7528 has 143 MA's), (Start: 43 @7549 has 3 MA's), (76, 7726), (79, 7735), (82, 7759), (92, 7831), (96, 7855), (98, 7861), (116, 8011), (121, 8032), (123, 8044), (125, 8053), (150, 8260), (155, 8278), (183, 8365), (201, 8434), (215, 8446), (226, 8494), (239, 8524), (242, 8539), (250, 8575), (260, 8602), (265, 8623), (275, 8647), (281, 8671), (282, 8677), (289, 8704), (300, 8737), (310, 8776), (315, 8803), (320, 8824), (324, 8839), (339, 8866), (340, 8869), (347, 8890), (351, 8902), (353, 8908), (367, 8956), (388, 9031), (391, 9040), (399, 9067), (404, 9088), (415, 9151), (420, 9175), (429, 9232), (448, 9337), (451, 9358), (454, 9370), (461, 9412), (465, 9433), (466, 9454),

Gene: TinyTruffula_12 Start: 7648, Stop: 9753, Start Num: 38
Candidate Starts for TinyTruffula_12:
(Start: 38 @7648 has 143 MA's), (Start: 43 @7669 has 3 MA's), (76, 7846), (79, 7855), (82, 7879), (92, 7951), (96, 7975), (110, 8074), (116, 8131), (121, 8152), (123, 8164), (125, 8173), (150, 8380), (155, 8398), (183, 8485), (201, 8554), (215, 8566), (226, 8614), (239, 8644), (242, 8659), (265, 8743), (267, 8746), (275, 8767), (282, 8797), (289, 8824), (300, 8857), (310, 8896), (315, 8923), (316, 8929), (320, 8944), (324, 8959), (340, 8989), (347, 9010), (351, 9022), (353, 9028), (367, 9076), (376, 9112), (391, 9160), (399, 9187), (404, 9208), (415, 9271), (420, 9295), (429, 9352), (448, 9457), (451, 9478), (461, 9532), (465, 9553), (466, 9574),

Gene: TlaliMex_12 Start: 7643, Stop: 9748, Start Num: 38
Candidate Starts for TlaliMex_12:
(Start: 38 @7643 has 143 MA's), (Start: 43 @7664 has 3 MA's), (76, 7841), (79, 7850), (82, 7874), (92, 7946), (96, 7970), (100, 7988), (110, 8069), (116, 8126), (121, 8147), (123, 8159), (125, 8168), (150, 8375), (155, 8393), (183, 8480), (201, 8549), (215, 8561), (226, 8609), (239, 8639), (242, 8654), (256, 8708), (265, 8738), (267, 8741), (275, 8762), (282, 8792), (289, 8819), (300, 8852), (310, 8891), (315, 8918), (316, 8924), (320, 8939), (324, 8954), (339, 8981), (340, 8984), (347, 9005), (351, 9017), (353, 9023), (367, 9071), (376, 9107), (391, 9155), (399, 9182), (404, 9203), (415, 9266), (420, 9290), (429, 9347), (448, 9452), (451, 9473), (454, 9485), (461, 9527), (465, 9548), (466, 9569),

Gene: TomBrady12_12 Start: 7580, Stop: 9685, Start Num: 38
Candidate Starts for TomBrady12_12:
(Start: 38 @7580 has 143 MA's), (Start: 43 @7601 has 3 MA's), (76, 7778), (79, 7787), (82, 7811), (92, 7883), (96, 7907), (110, 8006), (121, 8084), (123, 8096), (125, 8105), (150, 8312), (155, 8330), (183, 8417), (201, 8486), (215, 8498), (226, 8546), (239, 8576), (242, 8591), (256, 8645), (265, 8675), (267,

8678), (275, 8699), (282, 8729), (289, 8756), (300, 8789), (310, 8828), (315, 8855), (316, 8861), (320, 8876), (324, 8891), (339, 8918), (340, 8921), (347, 8942), (351, 8954), (353, 8960), (367, 9008), (376, 9044), (391, 9092), (399, 9119), (404, 9140), (415, 9203), (420, 9227), (429, 9284), (448, 9389), (451, 9410), (461, 9464), (465, 9485), (466, 9506),

Gene: Toxicola_13 Start: 7442, Stop: 9547, Start Num: 38
Candidate Starts for Toxicola_13:
(Start: 38 @7442 has 143 MA's), (Start: 43 @7463 has 3 MA's), (76, 7640), (79, 7649), (82, 7673), (92, 7745), (96, 7769), (98, 7775), (116, 7925), (121, 7946), (123, 7958), (125, 7967), (150, 8174), (155, 8192), (183, 8279), (201, 8348), (215, 8360), (226, 8408), (239, 8438), (242, 8453), (260, 8516), (267, 8540), (275, 8561), (281, 8585), (282, 8591), (289, 8618), (300, 8651), (310, 8690), (316, 8723), (320, 8738), (324, 8753), (339, 8780), (351, 8816), (353, 8822), (367, 8870), (391, 8954), (399, 8981), (404, 9002), (415, 9065), (420, 9089), (429, 9146), (448, 9251), (451, 9272), (454, 9284), (461, 9326), (465, 9347), (466, 9368), (487, 9497),

Gene: Trackstar_12 Start: 7648, Stop: 9753, Start Num: 38
Candidate Starts for Trackstar_12:
(Start: 38 @7648 has 143 MA's), (Start: 43 @7669 has 3 MA's), (76, 7846), (79, 7855), (82, 7879), (92, 7951), (96, 7975), (110, 8074), (116, 8131), (121, 8152), (123, 8164), (125, 8173), (150, 8380), (155, 8398), (183, 8485), (201, 8554), (215, 8566), (226, 8614), (239, 8644), (242, 8659), (256, 8713), (265, 8743), (267, 8746), (275, 8767), (282, 8797), (289, 8824), (300, 8857), (310, 8896), (315, 8923), (316, 8929), (320, 8944), (324, 8959), (340, 8989), (347, 9010), (351, 9022), (353, 9028), (367, 9076), (376, 9112), (391, 9160), (399, 9187), (404, 9208), (415, 9271), (420, 9295), (429, 9352), (448, 9457), (451, 9478), (461, 9532), (465, 9553), (466, 9574),

Gene: Trireme_12 Start: 7646, Stop: 9751, Start Num: 38
Candidate Starts for Trireme_12:
(Start: 38 @7646 has 143 MA's), (Start: 43 @7667 has 3 MA's), (76, 7844), (79, 7853), (82, 7877), (92, 7949), (96, 7973), (110, 8072), (116, 8129), (121, 8150), (123, 8162), (125, 8171), (150, 8378), (155, 8396), (183, 8483), (201, 8552), (215, 8564), (226, 8612), (239, 8642), (242, 8657), (256, 8711), (265, 8741), (267, 8744), (275, 8765), (282, 8795), (289, 8822), (300, 8855), (310, 8894), (315, 8921), (316, 8927), (320, 8942), (324, 8957), (340, 8987), (347, 9008), (351, 9020), (353, 9026), (367, 9074), (376, 9110), (391, 9158), (399, 9185), (404, 9206), (415, 9269), (420, 9293), (429, 9350), (448, 9455), (451, 9476), (461, 9530), (465, 9551), (466, 9572),

Gene: Tyrellus_12 Start: 7546, Stop: 9651, Start Num: 38
Candidate Starts for Tyrellus_12:
(Start: 38 @7546 has 143 MA's), (Start: 43 @7567 has 3 MA's), (76, 7744), (79, 7753), (82, 7777), (92, 7849), (96, 7873), (98, 7879), (116, 8029), (121, 8050), (123, 8062), (125, 8071), (150, 8278), (155, 8296), (183, 8383), (201, 8452), (215, 8464), (226, 8512), (239, 8542), (242, 8557), (250, 8593), (260, 8620), (265, 8641), (275, 8665), (281, 8689), (282, 8695), (289, 8722), (300, 8755), (310, 8794), (315, 8821), (320, 8842), (324, 8857), (339, 8884), (340, 8887), (347, 8908), (351, 8920), (353, 8926), (367, 8974), (388, 9049), (391, 9058), (399, 9085), (404, 9106), (415, 9169), (420, 9193), (429, 9250), (448, 9355), (451, 9376), (454, 9388), (461, 9430), (465, 9451), (466, 9472),

Gene: Upsilon_12 Start: 7615, Stop: 9720, Start Num: 38
Candidate Starts for Upsilon_12:
(Start: 38 @7615 has 143 MA's), (Start: 43 @7636 has 3 MA's), (76, 7813), (79, 7822), (82, 7846), (92, 7918), (96, 7942), (110, 8041), (116, 8098), (121, 8119), (123, 8131), (125, 8140), (150, 8347), (155, 8365), (183, 8452), (201, 8521), (215, 8533), (226, 8581), (239, 8611), (242, 8626), (256, 8680), (265, 8710), (267, 8713), (275, 8734), (282, 8764), (289, 8791), (300, 8824), (310, 8863), (315, 8890), (316, 8896), (320, 8911), (324, 8926), (340, 8956), (347, 8977), (351, 8989), (353, 8995), (367, 9043), (376, 9079), (391, 9127), (399, 9154), (404, 9175), (415, 9238), (420, 9262), (429, 9319), (448, 9424), (451,

9445), (454, 9457), (461, 9499), (465, 9520), (466, 9541),

Gene: UtzChips_14 Start: 9915, Stop: 12263, Start Num: 32
Candidate Starts for UtzChips_14:
(Start: 32 @9915 has 8 MA's), (61, 10098), (82, 10194), (99, 10302), (108, 10362), (134, 10557), (141, 10620), (152, 10704), (155, 10716), (156, 10719), (171, 10770), (174, 10821), (188, 10908), (200, 10968), (205, 10992), (224, 11073), (237, 11133), (243, 11154), (260, 11214), (265, 11235), (270, 11244), (284, 11295), (307, 11382), (310, 11391), (341, 11487), (343, 11493), (353, 11526), (379, 11622), (391, 11661), (420, 11799), (430, 11862), (450, 11973), (466, 12078), (471, 12114),

Gene: Vallejo_18 Start: 12556, Stop: 15117, Start Num: 30
Candidate Starts for Vallejo_18:
(24, 12535), (Start: 30 @12556 has 55 MA's), (35, 12604), (41, 12637), (47, 12685), (49, 12709), (52, 12721), (68, 12781), (79, 12829), (80, 12844), (81, 12850), (101, 12970), (107, 13012), (117, 13108), (118, 13111), (124, 13141), (130, 13195), (131, 13198), (148, 13336), (150, 13357), (156, 13381), (162, 13402), (164, 13411), (172, 13462), (175, 13480), (213, 13666), (246, 13810), (254, 13843), (263, 13870), (268, 13888), (272, 13894), (279, 13918), (280, 13927), (293, 13975), (301, 14002), (302, 14005), (307, 14026), (309, 14032), (311, 14038), (324, 14089), (327, 14104), (330, 14116), (331, 14122), (332, 14125), (334, 14134), (343, 14161), (348, 14173), (351, 14182), (354, 14194), (356, 14200), (361, 14221), (372, 14254), (383, 14293), (397, 14344), (399, 14347), (401, 14356), (402, 14359), (405, 14374), (421, 14464), (426, 14500), (445, 14608), (452, 14644), (466, 14740), (467, 14743), (477, 14797), (481, 14836), (488, 14884), (489, 14893), (492, 14917), (494, 14935), (504, 14986), (511, 15010), (514, 15028), (518, 15058),

Gene: Vanisius_12 Start: 7552, Stop: 9657, Start Num: 38
Candidate Starts for Vanisius_12:
(Start: 38 @7552 has 143 MA's), (Start: 43 @7573 has 3 MA's), (76, 7750), (79, 7759), (82, 7783), (92, 7855), (96, 7879), (98, 7885), (116, 8035), (121, 8056), (123, 8068), (125, 8077), (150, 8284), (155, 8302), (183, 8389), (201, 8458), (215, 8470), (226, 8518), (239, 8548), (242, 8563), (250, 8599), (260, 8626), (265, 8647), (275, 8671), (281, 8695), (282, 8701), (289, 8728), (300, 8761), (310, 8800), (315, 8827), (320, 8848), (324, 8863), (339, 8890), (340, 8893), (347, 8914), (351, 8926), (353, 8932), (367, 8980), (388, 9055), (391, 9064), (399, 9091), (404, 9112), (415, 9175), (420, 9199), (429, 9256), (448, 9361), (451, 9382), (454, 9394), (461, 9436), (465, 9457), (466, 9478),

Gene: Vibaki_19 Start: 15202, Stop: 18351, Start Num: 13
Candidate Starts for Vibaki_19:
(Start: 13 @15202 has 3 MA's), (16, 15223), (18, 15247), (47, 15397), (67, 15451), (72, 15475), (92, 15586), (103, 15643), (104, 15652), (109, 15685), (115, 15757), (137, 15904), (139, 15922), (146, 15970), (150, 16012), (181, 16159), (274, 16465), (301, 16540), (308, 16564), (341, 16675), (354, 16708), (356, 16714), (362, 16735), (382, 16792), (401, 16846), (412, 16897), (435, 16960), (444, 16987), (466, 17089), (472, 17119), (480, 17158), (491, 17245), (497, 17284), (504, 17317), (516, 17380), (522, 17419), (530, 17464), (532, 17497), (533, 17515), (536, 17554), (540, 17587), (542, 17608), (543, 17626), (550, 17761), (551, 17764), (553, 17848), (554, 17872), (559, 17941), (562, 18013), (567, 18082), (568, 18091), (569, 18121), (570, 18175), (575, 18238), (577, 18250), (580, 18298),

Gene: VitulaEligans_12 Start: 7636, Stop: 9741, Start Num: 38
Candidate Starts for VitulaEligans_12:
(Start: 38 @7636 has 143 MA's), (Start: 43 @7657 has 3 MA's), (76, 7834), (79, 7843), (82, 7867), (92, 7939), (96, 7963), (98, 7969), (116, 8119), (121, 8140), (123, 8152), (125, 8161), (150, 8368), (155, 8386), (183, 8473), (201, 8542), (215, 8554), (226, 8602), (239, 8632), (242, 8647), (260, 8710), (265, 8731), (275, 8755), (281, 8779), (282, 8785), (289, 8812), (300, 8845), (310, 8884), (315, 8911), (320, 8932), (324, 8947), (339, 8974), (340, 8977), (347, 8998), (351, 9010), (353, 9016), (367, 9064), (376,

9100), (388, 9139), (391, 9148), (399, 9175), (404, 9196), (415, 9259), (420, 9283), (429, 9340), (448, 9445), (451, 9466), (454, 9478), (461, 9520), (465, 9541), (466, 9562), (487, 9691),

Gene: Vitus_19 Start: 14985, Stop: 17510, Start Num: 1
Candidate Starts for Vitus_19:
(Start: 1 @14985 has 33 MA's), (Start: 9 @15030 has 1 MA's), (28, 15180), (36, 15234), (66, 15387), (80, 15459), (85, 15483), (89, 15522), (107, 15627), (117, 15723), (120, 15735), (121, 15741), (125, 15762), (140, 15894), (171, 16047), (178, 16113), (182, 16137), (190, 16176), (199, 16218), (256, 16344), (259, 16350), (287, 16440), (314, 16536), (320, 16557), (329, 16587), (336, 16614), (340, 16626), (347, 16644), (349, 16650), (368, 16713), (372, 16728), (376, 16746), (383, 16767), (390, 16788), (396, 16809), (401, 16821), (407, 16842), (413, 16881), (419, 16908), (451, 17088), (453, 17097), (466, 17169), (479, 17238), (485, 17277), (499, 17376),

Gene: Vulture_14 Start: 9738, Stop: 12296, Start Num: 30
Candidate Starts for Vulture_14:
(Start: 30 @9738 has 55 MA's), (33, 9747), (34, 9777), (47, 9867), (68, 9963), (80, 10026), (107, 10194), (117, 10290), (118, 10293), (121, 10308), (133, 10395), (140, 10461), (166, 10599), (167, 10602), (178, 10686), (246, 10992), (263, 11052), (268, 11070), (272, 11076), (280, 11109), (283, 11121), (293, 11157), (301, 11184), (307, 11208), (309, 11214), (324, 11271), (329, 11295), (331, 11304), (335, 11319), (343, 11343), (348, 11355), (354, 11376), (356, 11382), (361, 11403), (369, 11427), (372, 11436), (376, 11454), (383, 11475), (385, 11481), (388, 11493), (397, 11526), (399, 11529), (402, 11541), (405, 11556), (406, 11559), (421, 11646), (435, 11736), (436, 11739), (445, 11790), (456, 11847), (458, 11856), (460, 11868), (466, 11922), (467, 11925), (477, 11979), (481, 12018), (488, 12066), (489, 12075), (492, 12099), (493, 12111), (514, 12207), (518, 12237),

Gene: Wawa_18 Start: 12593, Stop: 15154, Start Num: 30
Candidate Starts for Wawa_18:
(24, 12572), (Start: 30 @12593 has 55 MA's), (35, 12641), (41, 12674), (47, 12722), (49, 12746), (52, 12758), (68, 12818), (79, 12866), (80, 12881), (81, 12887), (101, 13007), (107, 13049), (117, 13145), (118, 13148), (124, 13178), (130, 13232), (148, 13373), (150, 13394), (156, 13418), (162, 13439), (164, 13448), (172, 13499), (175, 13517), (213, 13703), (246, 13847), (254, 13880), (263, 13907), (268, 13925), (272, 13931), (279, 13955), (280, 13964), (293, 14012), (301, 14039), (302, 14042), (307, 14063), (309, 14069), (311, 14075), (324, 14126), (327, 14141), (330, 14153), (331, 14159), (332, 14162), (334, 14171), (343, 14198), (348, 14210), (351, 14219), (354, 14231), (356, 14237), (361, 14258), (372, 14291), (383, 14330), (397, 14381), (399, 14384), (401, 14393), (402, 14396), (405, 14411), (421, 14501), (426, 14537), (445, 14645), (452, 14681), (466, 14777), (467, 14780), (477, 14834), (481, 14873), (488, 14921), (489, 14930), (492, 14954), (494, 14972), (504, 15023), (511, 15047), (514, 15065), (518, 15095),

Gene: Witch_12 Start: 7541, Stop: 9646, Start Num: 38
Candidate Starts for Witch_12:
(Start: 38 @7541 has 143 MA's), (Start: 43 @7562 has 3 MA's), (76, 7739), (79, 7748), (82, 7772), (92, 7844), (96, 7868), (98, 7874), (116, 8024), (121, 8045), (123, 8057), (125, 8066), (150, 8273), (155, 8291), (183, 8378), (201, 8447), (215, 8459), (226, 8507), (239, 8537), (242, 8552), (250, 8588), (260, 8615), (265, 8636), (275, 8660), (281, 8684), (282, 8690), (289, 8717), (300, 8750), (310, 8789), (315, 8816), (320, 8837), (324, 8852), (339, 8879), (340, 8882), (347, 8903), (351, 8915), (353, 8921), (367, 8969), (376, 9005), (391, 9053), (399, 9080), (404, 9101), (415, 9164), (420, 9188), (429, 9245), (448, 9350), (451, 9371), (454, 9383), (461, 9425), (465, 9446), (466, 9467), (487, 9596),

Gene: Wolfpack_12 Start: 7533, Stop: 9638, Start Num: 38
Candidate Starts for Wolfpack_12:
(Start: 38 @7533 has 143 MA's), (Start: 43 @7554 has 3 MA's), (76, 7731), (79, 7740), (82, 7764), (92, 7836), (96, 7860), (98, 7866), (110, 7959), (116, 8016), (121, 8037), (123, 8049), (125, 8058), (150,

8265), (155, 8283), (183, 8370), (201, 8439), (215, 8451), (226, 8499), (239, 8529), (242, 8544), (250, 8580), (260, 8607), (267, 8631), (275, 8652), (281, 8676), (282, 8682), (289, 8709), (300, 8742), (310, 8781), (315, 8808), (320, 8829), (324, 8844), (339, 8871), (340, 8874), (351, 8907), (353, 8913), (367, 8961), (376, 8997), (391, 9045), (399, 9072), (404, 9093), (415, 9156), (420, 9180), (429, 9237), (448, 9342), (451, 9363), (454, 9375), (461, 9417), (465, 9438), (466, 9459), (487, 9588),

Gene: WonderBoy_14 Start: 9710, Stop: 12271, Start Num: 30
Candidate Starts for WonderBoy_14:
(24, 9689), (Start: 30 @9710 has 55 MA's), (35, 9758), (47, 9839), (49, 9863), (68, 9935), (79, 9983), (80, 9998), (81, 10004), (107, 10166), (117, 10262), (118, 10265), (124, 10295), (140, 10433), (150, 10511), (162, 10556), (164, 10565), (172, 10616), (175, 10634), (177, 10646), (181, 10670), (228, 10886), (248, 10976), (254, 10997), (263, 11024), (268, 11042), (272, 11048), (279, 11072), (280, 11081), (293, 11129), (301, 11156), (309, 11186), (324, 11243), (327, 11258), (330, 11270), (331, 11276), (332, 11279), (334, 11288), (343, 11315), (348, 11327), (351, 11336), (354, 11348), (356, 11354), (362, 11378), (369, 11399), (372, 11408), (375, 11423), (383, 11447), (397, 11498), (399, 11501), (402, 11513), (406, 11531), (421, 11618), (426, 11654), (445, 11762), (448, 11774), (451, 11795), (452, 11798), (456, 11819), (466, 11894), (467, 11897), (471, 11930), (477, 11951), (481, 11990), (483, 12008), (488, 12038), (489, 12047), (505, 12146), (518, 12212),

Gene: Wyborn_20 Start: 14110, Stop: 16749, Start Num: 1
Candidate Starts for Wyborn_20:
(Start: 1 @14110 has 33 MA's), (Start: 9 @14155 has 1 MA's), (10, 14188), (39, 14374), (47, 14437), (60, 14506), (68, 14533), (80, 14596), (95, 14698), (98, 14707), (105, 14752), (113, 14842), (116, 14857), (117, 14860), (124, 14893), (138, 15013), (140, 15031), (156, 15133), (159, 15142), (171, 15184), (200, 15361), (201, 15373), (221, 15448), (231, 15490), (251, 15565), (252, 15568), (256, 15580), (259, 15586), (262, 15598), (266, 15610), (297, 15709), (298, 15712), (302, 15727), (309, 15751), (312, 15760), (314, 15772), (320, 15793), (333, 15838), (343, 15871), (347, 15880), (358, 15916), (361, 15931), (362, 15934), (367, 15946), (373, 15970), (377, 15985), (383, 16003), (389, 16021), (393, 16036), (401, 16057), (407, 16078), (410, 16093), (414, 16123), (418, 16141), (420, 16153), (425, 16186), (439, 16273), (442, 16294), (446, 16306), (451, 16324), (464, 16378), (478, 16471), (479, 16477), (485, 16516), (507, 16639),

Gene: Yami_12 Start: 7552, Stop: 9636, Start Num: 43
Candidate Starts for Yami_12:
(Start: 38 @7531 has 143 MA's), (Start: 43 @7552 has 3 MA's), (76, 7729), (79, 7738), (82, 7762), (92, 7834), (96, 7858), (110, 7957), (116, 8014), (121, 8035), (123, 8047), (125, 8056), (150, 8263), (155, 8281), (183, 8368), (201, 8437), (215, 8449), (226, 8497), (239, 8527), (242, 8542), (265, 8626), (267, 8629), (275, 8650), (282, 8680), (289, 8707), (300, 8740), (310, 8779), (315, 8806), (316, 8812), (320, 8827), (324, 8842), (340, 8872), (347, 8893), (351, 8905), (353, 8911), (367, 8959), (376, 8995), (391, 9043), (399, 9070), (404, 9091), (415, 9154), (420, 9178), (429, 9235), (448, 9340), (451, 9361), (461, 9415), (465, 9436), (466, 9457),

Gene: Yasuo_12 Start: 7537, Stop: 9642, Start Num: 38
Candidate Starts for Yasuo_12:
(Start: 38 @7537 has 143 MA's), (Start: 43 @7558 has 3 MA's), (76, 7735), (79, 7744), (82, 7768), (92, 7840), (96, 7864), (98, 7870), (116, 8020), (121, 8041), (123, 8053), (125, 8062), (150, 8269), (155, 8287), (183, 8374), (201, 8443), (215, 8455), (226, 8503), (239, 8533), (242, 8548), (250, 8584), (260, 8611), (265, 8632), (275, 8656), (281, 8680), (282, 8686), (289, 8713), (300, 8746), (310, 8785), (315, 8812), (320, 8833), (324, 8848), (339, 8875), (340, 8878), (347, 8899), (351, 8911), (353, 8917), (367, 8965), (388, 9040), (391, 9049), (399, 9076), (404, 9097), (415, 9160), (420, 9184), (429, 9241), (448, 9346), (451, 9367), (454, 9379), (461, 9421), (465, 9442), (466, 9463),

Gene: YertPhresh_12 Start: 7540, Stop: 9645, Start Num: 38

Candidate Starts for YertPhresh_12:
(Start: 38 @7540 has 143 MA's), (Start: 43 @7561 has 3 MA's), (76, 7738), (79, 7747), (82, 7771), (92, 7843), (96, 7867), (98, 7873), (116, 8023), (121, 8044), (123, 8056), (125, 8065), (150, 8272), (155, 8290), (183, 8377), (201, 8446), (215, 8458), (226, 8506), (239, 8536), (242, 8551), (250, 8587), (260, 8614), (265, 8635), (275, 8659), (281, 8683), (282, 8689), (289, 8716), (300, 8749), (310, 8788), (315, 8815), (320, 8836), (324, 8851), (339, 8878), (340, 8881), (347, 8902), (351, 8914), (353, 8920), (367, 8968), (376, 9004), (391, 9052), (399, 9079), (404, 9100), (415, 9163), (420, 9187), (429, 9244), (448, 9349), (451, 9370), (454, 9382), (461, 9424), (465, 9445), (466, 9466), (487, 9595),

Gene: Yubaba_12 Start: 7574, Stop: 9679, Start Num: 38
Candidate Starts for Yubaba_12:
(Start: 38 @7574 has 143 MA's), (Start: 43 @7595 has 3 MA's), (76, 7772), (79, 7781), (82, 7805), (92, 7877), (96, 7901), (98, 7907), (116, 8057), (121, 8078), (123, 8090), (125, 8099), (150, 8306), (155, 8324), (183, 8411), (201, 8480), (215, 8492), (226, 8540), (239, 8570), (242, 8585), (250, 8621), (260, 8648), (265, 8669), (275, 8693), (281, 8717), (282, 8723), (289, 8750), (300, 8783), (310, 8822), (315, 8849), (320, 8870), (324, 8885), (339, 8912), (340, 8915), (347, 8936), (351, 8948), (353, 8954), (367, 9002), (376, 9038), (391, 9086), (399, 9113), (404, 9134), (415, 9197), (420, 9221), (429, 9278), (448, 9383), (451, 9404), (454, 9416), (461, 9458), (465, 9479), (466, 9500), (487, 9629),

Gene: Zahlia_12 Start: 7645, Stop: 9750, Start Num: 38
Candidate Starts for Zahlia_12:
(Start: 38 @7645 has 143 MA's), (Start: 43 @7666 has 3 MA's), (76, 7843), (79, 7852), (82, 7876), (92, 7948), (96, 7972), (98, 7978), (116, 8128), (121, 8149), (123, 8161), (125, 8170), (150, 8377), (155, 8395), (183, 8482), (201, 8551), (215, 8563), (226, 8611), (239, 8641), (242, 8656), (250, 8692), (260, 8719), (265, 8740), (275, 8764), (281, 8788), (282, 8794), (289, 8821), (300, 8854), (310, 8893), (315, 8920), (320, 8941), (324, 8956), (339, 8983), (340, 8986), (347, 9007), (351, 9019), (353, 9025), (367, 9073), (388, 9148), (391, 9157), (399, 9184), (404, 9205), (415, 9268), (420, 9292), (429, 9349), (448, 9454), (451, 9475), (454, 9487), (461, 9529), (465, 9550), (466, 9571), (487, 9700),

Gene: Zartrosa_19 Start: 13772, Stop: 16402, Start Num: 1
Candidate Starts for Zartrosa_19:
(Start: 1 @13772 has 33 MA's), (Start: 9 @13820 has 1 MA's), (21, 13931), (39, 14039), (47, 14102), (65, 14186), (84, 14279), (88, 14309), (107, 14429), (112, 14486), (117, 14525), (121, 14543), (125, 14564), (127, 14573), (134, 14636), (138, 14678), (143, 14714), (147, 14741), (180, 14927), (186, 14960), (203, 15044), (223, 15113), (249, 15212), (252, 15221), (259, 15239), (262, 15251), (309, 15404), (311, 15410), (312, 15413), (314, 15425), (316, 15431), (320, 15446), (322, 15455), (333, 15491), (343, 15524), (347, 15533), (354, 15557), (358, 15569), (362, 15587), (368, 15602), (377, 15638), (390, 15677), (394, 15692), (401, 15710), (407, 15731), (408, 15740), (413, 15770), (419, 15797), (424, 15830), (425, 15839), (440, 15935), (442, 15947), (449, 15968), (451, 15977), (466, 16058), (474, 16100), (478, 16121), (479, 16127), (485, 16166), (500, 16268), (507, 16292), (517, 16340), (520, 16361),

Gene: Zeta1847_14 Start: 9068, Stop: 11329, Start Num: 29
Candidate Starts for Zeta1847_14:
(Start: 29 @9068 has 1 MA's), (45, 9158), (48, 9203), (54, 9230), (61, 9254), (63, 9260), (82, 9350), (99, 9458), (108, 9518), (134, 9713), (141, 9776), (156, 9875), (159, 9884), (185, 9986), (220, 10118), (225, 10139), (235, 10184), (262, 10283), (275, 10319), (277, 10325), (286, 10364), (301, 10415), (310, 10448), (318, 10487), (334, 10523), (353, 10580), (379, 10673), (381, 10679), (391, 10712), (404, 10760), (430, 10910), (432, 10922), (447, 11006), (478, 11186),

Gene: Zorro_18 Start: 12572, Stop: 15133, Start Num: 30
Candidate Starts for Zorro_18:

(24, 12551), (Start: 30 @12572 has 55 MA's), (35, 12620), (41, 12653), (47, 12701), (49, 12725), (52, 12737), (68, 12797), (79, 12845), (80, 12860), (81, 12866), (101, 12986), (107, 13028), (117, 13124), (118, 13127), (124, 13157), (130, 13211), (148, 13352), (150, 13373), (156, 13397), (162, 13418), (164, 13427), (172, 13478), (175, 13496), (213, 13682), (246, 13826), (254, 13859), (263, 13886), (268, 13904), (272, 13910), (279, 13934), (280, 13943), (293, 13991), (301, 14018), (302, 14021), (307, 14042), (311, 14054), (324, 14105), (327, 14120), (330, 14132), (332, 14141), (334, 14150), (343, 14177), (348, 14189), (351, 14198), (354, 14210), (356, 14216), (361, 14237), (369, 14261), (372, 14270), (383, 14309), (397, 14360), (399, 14363), (401, 14372), (402, 14375), (405, 14390), (421, 14480), (426, 14516), (445, 14624), (452, 14660), (466, 14756), (467, 14759), (477, 14813), (481, 14852), (488, 14900), (489, 14909), (492, 14933), (494, 14951), (504, 15002), (511, 15026), (514, 15044), (518, 15074),