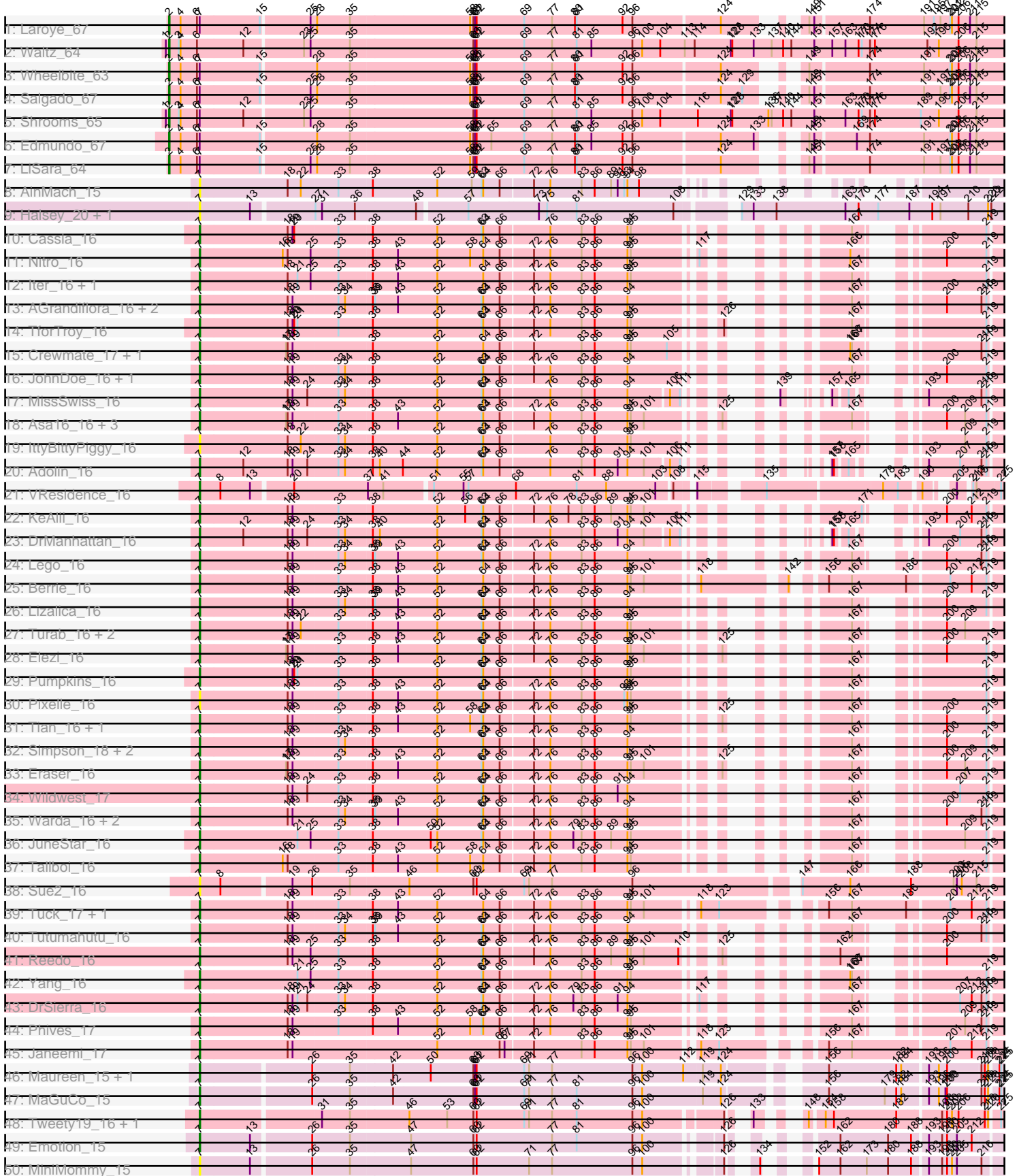
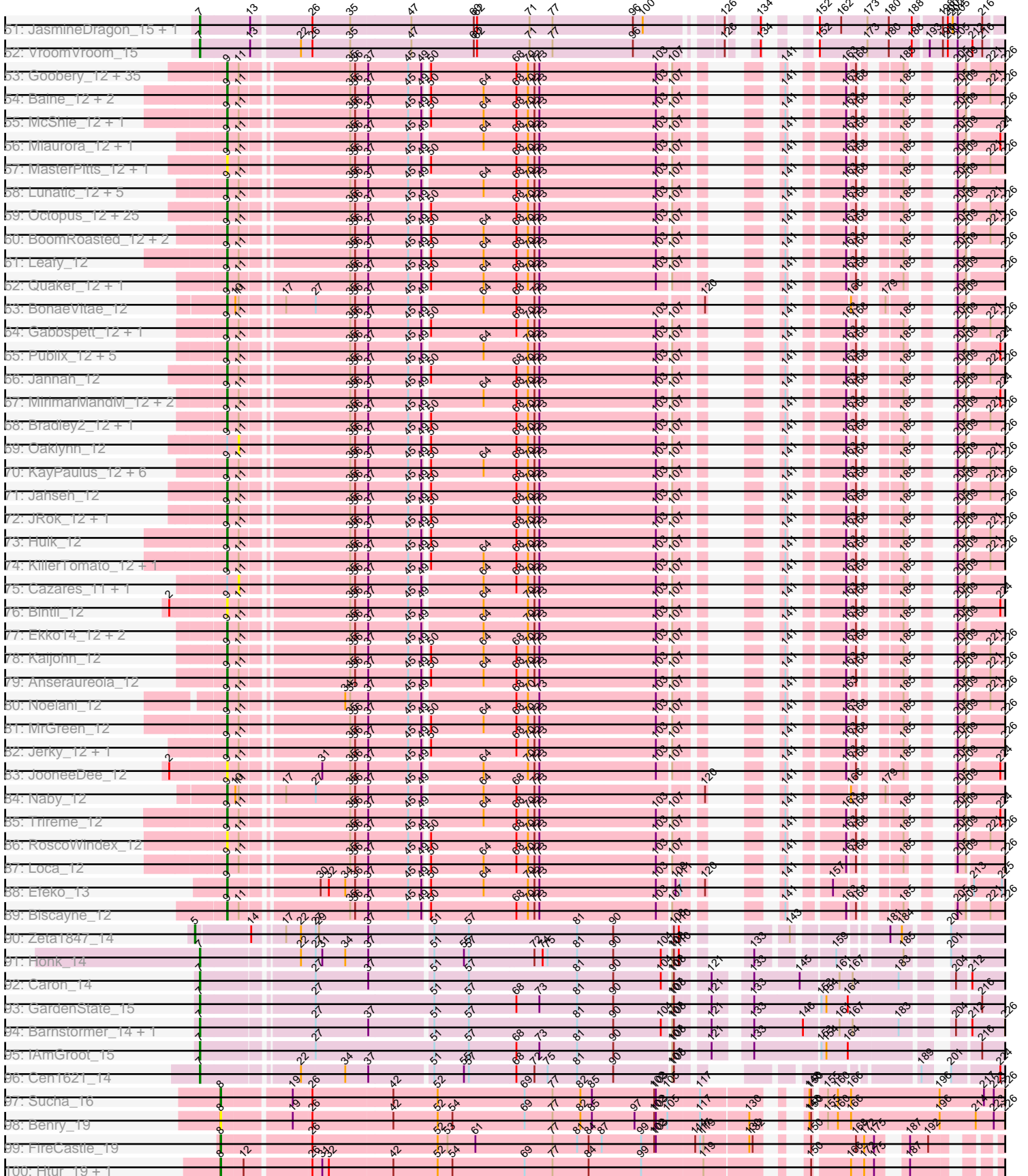


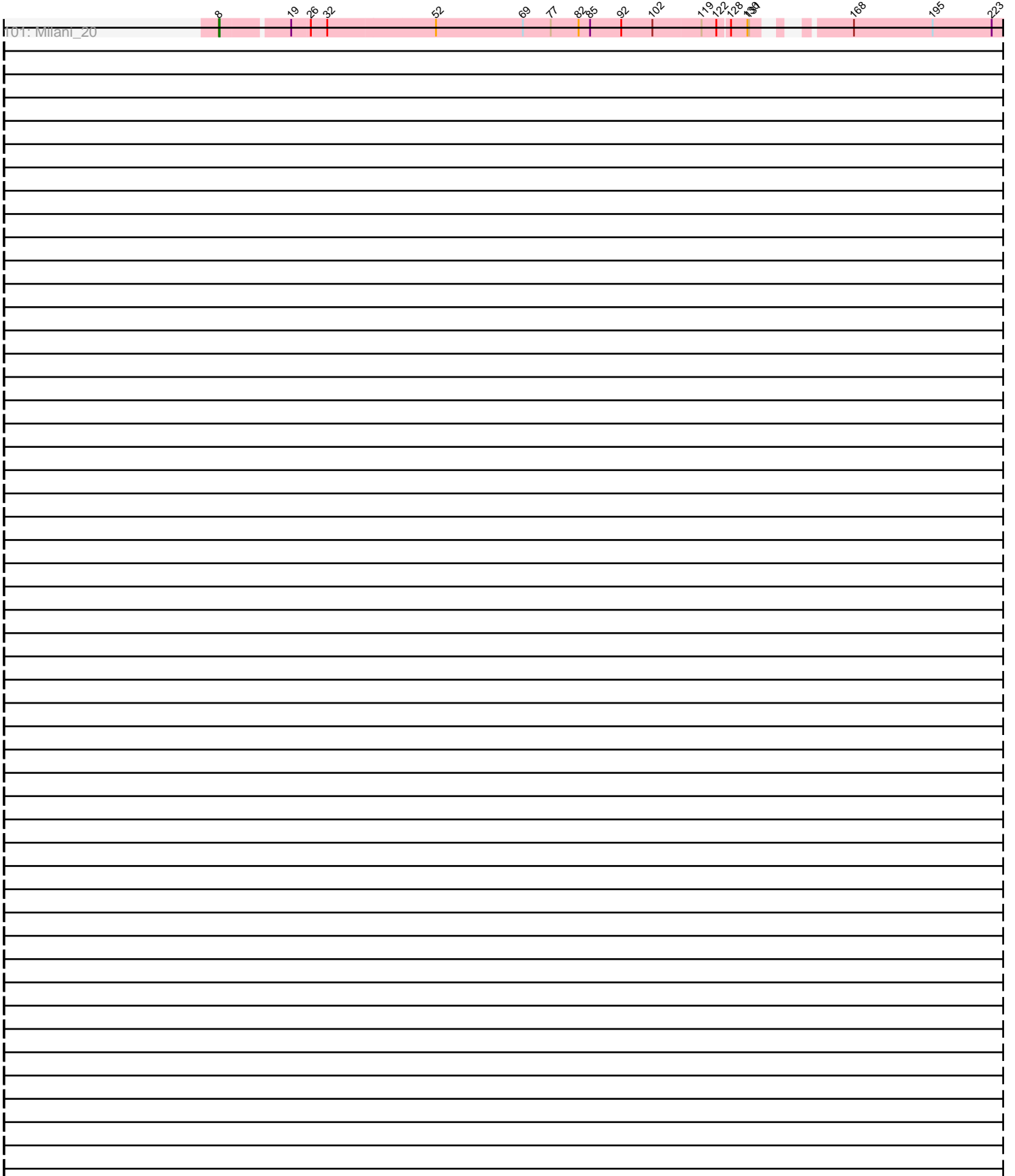
Zoomed Pham 171190



Zoomed Pham 171190



Zoomed Pham 171190



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 171190 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171190 has 217 members, 39 are drafts.

Phages represented in each track:

- Track 1 : Laroye_67
- Track 2 : Waltz_64
- Track 3 : Wheelbite_63
- Track 4 : Salgado_67
- Track 5 : Shrooms_65
- Track 6 : Edmundo_67
- Track 7 : LiSara_64
- Track 8 : AinMach_15
- Track 9 : Halsey_20, Moss_18
- Track 10 : Cassia_16
- Track 11 : Nitro_16
- Track 12 : Iter_16, Ascela_16
- Track 13 : AGrandiflora_16, YesChef_16, Powerpuff_16
- Track 14 : TforTroy_16
- Track 15 : Crewmate_17, ObiToo_16
- Track 16 : JohnDoe_16, Cyan_16
- Track 17 : MissSwiss_16
- Track 18 : Asa16_16, Jstan_16, London_16, Niobe_16
- Track 19 : IttyBittyPiggy_16
- Track 20 : Adolin_16
- Track 21 : VResidence_16
- Track 22 : KeAlii_16
- Track 23 : DrManhattan_16
- Track 24 : Lego_16
- Track 25 : Berrie_16
- Track 26 : Lizalica_16
- Track 27 : Turab_16, Adumb2043_16, AEgle_16
- Track 28 : Elezi_16
- Track 29 : Pumpkins_16
- Track 30 : Pixelle_16
- Track 31 : Tian_16, Amyev_16
- Track 32 : Simpson_18, Joemato_18, Kaylissa_16
- Track 33 : Eraser_16
- Track 34 : Wildwest_17
- Track 35 : Warda_16, Tbone_16, Mudpuppy_17
- Track 36 : JuneStar_16
- Track 37 : Tallboi_16

- Track 38 : Sue2_16
- Track 39 : Tuck_17, Community_16
- Track 40 : Tutumahutu_16
- Track 41 : Reedo_16
- Track 42 : Yang_16
- Track 43 : DrSierra_16
- Track 44 : Phives_17
- Track 45 : Janeemi_17
- Track 46 : Maureen_15, Liebe_15
- Track 47 : MaGuCo_15
- Track 48 : Tweety19_16, Snek_16
- Track 49 : Emotion_15
- Track 50 : MiniMommy_15
- Track 51 : JasmineDragon_15, ShakeltOph_16
- Track 52 : VroomVroom_15
- Track 53 : Goobery_12, BurtonThePup_12, NeumannU_12, Otwor_12, JaimeB_12, LionelHutz_12, BinkBonk_12, Burgy_12, Rhogar_12, Owens_12, Slentz_12, Rhysand_12, SantasSleigh_12, Ciel_12, TimoTea_12, Vanisius_12, Josuke_12, Cheesecake_12, Godfather_12, Scrunchy_12, Luxx_12, Danno_12, Charbie_12, Scamander_12, Maneater_12, Aries55_12, Majesty_12, Sage7_13, BarBear_12, Kojax4_12, Astro16_12, TeddyBoy_12, Avvas_12, Yasuo_12, LaviMo_12, Eightball_12
- Track 54 : Baine_12, Lola20_12, Cayde6_12
- Track 55 : McShie_12, BrokMonster_12
- Track 56 : Miaurora_12, Stem_11
- Track 57 : MasterPitts_12, DaftyDuck_12
- Track 58 : Lunatic_12, PuffyCat_12, TinyTruffula_12, Clownery_12, Niffler_12, Nobel_12
- Track 59 : Octopus_12, Alucard_12, GoldenBlanche_12, EdElric_12, Puddles3_12, Horacetta_12, SeaWolves_12, Gardevoir_12, Erin_12, PaoPu_12, Aztec_12, Chatham_12, Dooby_12, Danimal_12, Picnic_12, Minima_12, LemonPepper_12, ManAs_12, KyriosFaba_12, Pondwater_12, JoBros_12, Dongwon_12, Witch_12, YertPhresh_12, Sara_12, Yubaba_12
- Track 60 : BoomRoasted_12, Belthelas_12, Concrete_12
- Track 61 : Leafy_12
- Track 62 : Quaker_12, Livingwater_12
- Track 63 : BonaeVitae_12
- Track 64 : Gabbspett_12, Hernandez44_12
- Track 65 : Publix_12, Namsahir_12, Bullzi2019_12, Snuffles_13, TomBrady12_12, Slizam_11
- Track 66 : Jannah_12
- Track 67 : MirimarMandM_12, Upsilon_12, PoRanda_12
- Track 68 : Bradley2_12, Gillker_12
- Track 69 : Oaklynn_12
- Track 70 : KayPaulus_12, MelBee03_12, Wolfpack_12, Sippinontea_12, Duggie_12, Bodhi17_12, Kevanna_12
- Track 71 : Jahseh_12
- Track 72 : JRok_12, Azizam_12
- Track 73 : Hulk_12
- Track 74 : KillerTomato_12, Bri160_12
- Track 75 : Cazares_11, Yami_11
- Track 76 : Bintii_12
- Track 77 : Ekko14_12, HarperAnne_12, Elspeth_11

- Track 78 : Kaijohn_12
- Track 79 : Anseraureola_12
- Track 80 : Noelani_12
- Track 81 : MrGreen_12
- Track 82 : Jerky_12, VitulaEligans_12
- Track 83 : JooneeDee_12
- Track 84 : Naby_12
- Track 85 : Trireme_12
- Track 86 : RoscoWindex_12
- Track 87 : Loca_12
- Track 88 : Efeko_13
- Track 89 : Biscayne_12
- Track 90 : Zeta1847_14
- Track 91 : Honk_14
- Track 92 : Caron_14
- Track 93 : GardenState_15
- Track 94 : Barnstormer_14, UtzChips_14
- Track 95 : IAmGroot_15
- Track 96 : Cen1621_14
- Track 97 : Sucha_16
- Track 98 : Benry_19
- Track 99 : FireCastle_19
- Track 100 : Htur_19, Rasovi_19
- Track 101 : Milani_20

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

The start number called the most often in the published annotations is 9, it was called in 111 of the 178 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alucard_12, Anseraureola_12, Aries55_12, Astro16_12, Avvas_12, Azizam_12, Aztec_12, Baine_12, BarBear_12, Belthelas_12, BinkBonk_12, Bintii_12, Biscayne_12, Bodhi17_12, BonaeVitae_12, BoomRoasted_12, Bradley2_12, Bri160_12, BrokMonster_12, Bullzi2019_12, Burgy_12, BurtonThePup_12, Cayde6_12, Charbie_12, Chatham_12, Cheesecake_12, Ciel_12, Clownery_12, Concrete_12, DaftyDuck_12, Danimal_12, Danno_12, Dongwon_12, Dooby_12, Duggie_12, EdElric_12, Efeko_13, Eightball_12, Ekko14_12, Elspeth_11, Erin_12, Gabbspett_12, Gardevoir_12, Gillker_12, Godfather_12, GoldenBlanche_12, Goobery_12, HarperAnne_12, Hernandez44_12, Horacetta_12, Hulk_12, JRok_12, Jahseh_12, JaimeB_12, Jannah_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, Majesty_12, ManAs_12, Maneater_12, MasterPitts_12, McShie_12, MelBee03_12, Miaurora_12, Minima_12, MirimarMandM_12, MrGreen_12, Naby_12, Namsahir_12, NeumannU_12, Niffler_12, Nobel_12, Noelani_12, Octopus_12, Otwor_12, Owens_12, PaoPu_12, Picnic_12, PoRanda_12, Pondwater_12, Publix_12, Puddles3_12, PuffyCat_12, Quaker_12, Rhogar_12, Rhysand_12, RoscoWindex_12, Sage7_13, SantasSleigh_12, Sara_12, Scamander_12, Scrunchy_12, SeaWolves_12, Sippinontea_12, Slentz_12,

Slizam_11, Snuffles_13, Stem_11, TeddyBoy_12, TimoTea_12, TinyTruffula_12, TomBrady12_12, Trireme_12, Upsilon_12, Vanisius_12, VitulaEligans_12, Witch_12, Wolfpack_12, Yasuo_12, YertPhresh_12, Yubaba_12,

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

- Cazares_11, Oaklynn_12, Yami_11,

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

- AEgle_16, AGrandiflora_16, Adolin_16, Adumb2043_16, AinMach_15, Amyev_16, Asa16_16, Ascela_16, Barnstormer_14, Benry_19, Berrie_16, Caron_14, Cassia_16, Cen1621_14, Community_16, Crewmate_17, Cyan_16, DrManhattan_16, DrSierra_16, Edmundo_67, Elezi_16, Emotion_15, Eraser_16, FireCastle_19, GardenState_15, Halsey_20, Honk_14, Htur_19, IAmGroot_15, Iter_16, IttyBittyPiggy_16, Janeemi_17, JasmineDragon_15, Joemato_18, JohnDoe_16, Jstan_16, JuneStar_16, Kaylissa_16, KeAlii_16, Laroye_67, Lego_16, LiSara_64, Liebe_15, Lizalica_16, London_16, MaGuCo_15, Maureen_15, Milani_20, MiniMommy_15, MissSwiss_16, Moss_18, Mudpuppy_17, Niobe_16, Nitro_16, ObiToo_16, Phives_17, Pixelle_16, Powerpuff_16, Pumpkins_16, Rasovi_19, Reedo_16, Salgado_67, ShakeltOph_16, Shrooms_65, Simpson_18, Sneak_16, Sucha_16, Sue2_16, Tallboi_16, Tbone_16, TforTroy_16, Tian_16, Tuck_17, Turab_16, Tutumahutu_16, Tweety19_16, UtzChips_14, VResidence_16, VroomVroom_15, Waltz_64, Warda_16, Wheelbite_63, Wildwest_17, Yang_16, YesChef_16, Zeta1847_14,

Summary by start number:

Start 2:

- Found in 9 of 217 (4.1%) of genes in pham
- Manual Annotations of this start: 7 of 178
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Edmundo_67 (AL), Laroye_67 (AL), LiSara_64 (AL), Salgado_67 (AL), Shrooms_65 (AL), Waltz_64 (AL), Wheelbite_63 (AL),

Start 5:

- Found in 1 of 217 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 178
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_14 (EH),

Start 7:

- Found in 78 of 217 (35.9%) of genes in pham
- Manual Annotations of this start: 54 of 178
- Called 92.3% of time when present
- Phage (with cluster) where this start called: AEgle_16 (AZ1), AGrandiflora_16 (AZ1), Adolin_16 (AZ1), Adumb2043_16 (AZ1), AinMach_15 (AZ), Amyev_16 (AZ1), Asa16_16 (AZ1), Ascela_16 (AZ1), Barnstormer_14 (EH), Berrie_16 (AZ1), Caron_14 (EH), Cassia_16 (AZ1), Cen1621_14 (EH), Community_16 (AZ1), Crewmate_17 (AZ1), Cyan_16 (AZ1), DrManhattan_16 (AZ1), DrSierra_16 (AZ1), Elezi_16 (AZ1), Emotion_15 (AZ4), Eraser_16 (AZ1), GardenState_15 (EH), Halsey_20 (AZ), Honk_14 (EH), IAmGroot_15 (EH), Iter_16 (AZ1), IttyBittyPiggy_16 (AZ1), Janeemi_17 (AZ1), JasmineDragon_15 (AZ4), Joemato_18 (AZ1), JohnDoe_16 (AZ1), Jstan_16 (AZ1), JuneStar_16 (AZ1), Kaylissa_16 (AZ1), KeAlii_16 (AZ1),

Lego_16 (AZ1), Liebe_15 (AZ2), Lizalica_16 (AZ1), London_16 (AZ1), MaGuCo_15 (AZ2), Maureen_15 (AZ2), MiniMommy_15 (AZ4), MissSwiss_16 (AZ1), Moss_18 (AZ), Mudpuppy_17 (AZ1), Niobe_16 (AZ1), Nitro_16 (AZ1), ŌbiToo_16 (AZ1), Phives_17 (AZ1), Pixelle_16 (AZ1), Powerpuff_16 (AZ1), Pumpkins_16 (AZ1), Reedo_16 (AZ1), ShakeltOph_16 (AZ4), Simpson_18 (AZ1), Snek_16 (AZ3), Sue2_16 (AZ1), Tallboi_16 (AZ1), Tbone_16 (AZ1), TforTroy_16 (AZ1), Tian_16 (AZ1), Tuck_17 (AZ1), Turab_16 (AZ1), Tutumahutu_16 (AZ1), Tweety19_16 (AZ3), UtzChips_14 (EH), VResidence_16 (AZ1), VroomVroom_15 (AZ4), Warda_16 (AZ1), Wildwest_17 (AZ1), Yang_16 (AZ1), YesChef_16 (AZ1),

Start 8:

- Found in 8 of 217 (3.7%) of genes in pham
- Manual Annotations of this start: 5 of 178
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Berry_19 (EJ), FireCastle_19 (EJ), Htur_19 (EJ), Milani_20 (EJ), Rasovi_19 (EJ), Sucha_16 (EJ),

Start 9:

- Found in 131 of 217 (60.4%) of genes in pham
- Manual Annotations of this start: 111 of 178
- Called 97.7% of time when present
- Phage (with cluster) where this start called: Alucard_12 (EE), Anseraureola_12 (EE), Aries55_12 (EE), Astro16_12 (EE), Avvas_12 (EE), Azizam_12 (EE), Aztec_12 (EE), Baine_12 (EE), BarBear_12 (EE), Belthelas_12 (EE), BinkBonk_12 (EE), 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), Dongwon_12 (EE), Dooby_12 (EE), Douggie_12 (EE), EdElric_12 (EE), Efeko_13 (EE), Eightball_12 (EE), Ekko14_12 (EE), Elspeth_11 (EE), Erin_12 (EE), Gabbspett_12 (EE), Gardevoir_12 (EE), Gillker_12 (EE), Godfather_12 (EE), GoldenBlanche_12 (EE), Goobery_12 (EE), HarperAnne_12 (EE), Hernandez44_12 (EE), Horacetta_12 (EE), Hulk_12 (EE), JRok_12 (EE), Jahseh_12 (EE), JaimeB_12 (EE), Jannah_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), Majesty_12 (EE), ManAs_12 (EE), Maneater_12 (EE), MasterPitts_12 (EE), McShie_12 (EE), MelBee03_12 (EE), Miaurora_12 (EE), Minima_12 (EE), MirimarMandM_12 (EE), MrGreen_12 (EE), Naby_12 (EE), Namsahir_12 (EE), NeumannU_12 (EE), Niffler_12 (EE), Nobel_12 (EE), Noelani_12 (EE), Octopus_12 (EE), Otwor_12 (EE), Owens_12 (EE), PaoPu_12 (EE), Picnic_12 (EE), PoRanda_12 (EE), Pondwater_12 (EE), Publix_12 (EE), Puddles3_12 (EE), PuffyCat_12 (EE), Quaker_12 (EE), Rhogar_12 (EE), Rhysand_12 (EE), RoscoWindex_12 (EE), Sage7_13 (EE), SantasSleigh_12 (EE), Sara_12 (EE), Scamander_12 (EE), Scrunchy_12 (EE), SeaWolves_12 (EE), Sippinontea_12 (EE), Slentz_12 (EE), Slizam_11 (EE), Snuffles_13 (EE), Stem_11 (EE), TeddyBoy_12 (EE), TimoTea_12 (EE), TinyTruffula_12 (EE), TomBrady12_12 (EE), Trireme_12 (EE), Upsilon_12 (EE), Vanisius_12 (EE), VitulaEligans_12 (EE), Witch_12 (EE), Wolfpack_12 (EE), Yasuo_12 (EE), YertPhresh_12 (EE), Yubaba_12 (EE),

Start 11:

- Found in 130 of 217 (59.9%) of genes in pham
- No Manual Annotations of this start.
- Called 2.3% of time when present
- Phage (with cluster) where this start called: Cazares_11 (EE), Oaklynn_12 (EE), Yami_11 (EE),

Summary by clusters:

There are 9 clusters represented in this pham: AZ, EH, EJ, EE, AL, AZ1, AZ2, AZ3, AZ4,

Info for manual annotations of cluster AL:

- Start number 2 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster AZ1:

- Start number 7 was manually annotated 39 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 7 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 7 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 7 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster EE:

- Start number 9 was manually annotated 111 times for cluster EE.

Info for manual annotations of cluster EH:

- Start number 5 was manually annotated 1 time for cluster EH.
- Start number 7 was manually annotated 7 times for cluster EH.

Info for manual annotations of cluster EJ:

- Start number 8 was manually annotated 5 times for cluster EJ.

Gene Information:

Gene: AEgle_16 Start: 10734, Stop: 13058, Start Num: 7

Candidate Starts for AEgle_16:

(Start: 7 @10734 has 54 MA's), (18, 10890), (19, 10899), (22, 10914), (33, 10980), (38, 11040), (43, 11085), (52, 11157), (63, 11238), (64, 11241), (66, 11271), (72, 11325), (76, 11355), (83, 11412), (86, 11436), (94, 11496), (95, 11502), (167, 11721), (200, 11817), (209, 11850), (232, 11937), (246, 11991), (257, 12033), (269, 12072), (286, 12132), (320, 12273), (362, 12402), (364, 12411), (388, 12522), (406, 12654), (407, 12657), (413, 12690), (428, 12768), (435, 12807), (446, 12867), (462, 12957),

Gene: AGrandiflora_16 Start: 10727, Stop: 13042, Start Num: 7

Candidate Starts for AGrandiflora_16:

(Start: 7 @10727 has 54 MA's), (18, 10883), (19, 10892), (33, 10973), (34, 10985), (38, 11033), (39, 11036), (43, 11078), (52, 11150), (63, 11231), (64, 11234), (66, 11264), (72, 11318), (76, 11348), (83, 11405), (86, 11429), (94, 11489), (167, 11714), (200, 11810), (216, 11873), (219, 11882), (232, 11930), (234, 11939), (237, 11951), (246, 11984), (257, 12026), (269, 12065), (286, 12125), (320, 12266), (347, 12341), (351, 12353), (362, 12395), (364, 12404), (369, 12428), (384, 12497), (388, 12515), (403, 12626), (406, 12647), (407, 12650), (413, 12683), (428, 12761), (435, 12800), (446, 12860), (452, 12890), (462, 12941), (468, 12986), (472, 13031),

Gene: Adolin_16 Start: 10723, Stop: 12957, Start Num: 7

Candidate Starts for Adolin_16:

(Start: 7 @10723 has 54 MA's), (12, 10798), (18, 10879), (19, 10888), (24, 10915), (33, 10969), (34, 10981), (38, 11029), (40, 11041), (44, 11083), (52, 11146), (63, 11227), (64, 11230), (66, 11260), (76, 11344), (83, 11401), (86, 11425), (91, 11467), (94, 11485), (101, 11515), (106, 11554), (111, 11572), (157, 11644), (158, 11647), (165, 11665), (193, 11710), (207, 11767), (216, 11806), (219, 11815), (232, 11863), (234, 11872), (257, 11959), (260, 11971), (269, 11998), (274, 12016), (286, 12058), (310, 12160), (339, 12220), (352, 12292), (359, 12319), (362, 12328), (381, 12418), (387, 12439), (391, 12472), (398, 12526), (402, 12547), (426, 12679), (431, 12709), (465, 12892),

Gene: Adumb2043_16 Start: 10733, Stop: 13057, Start Num: 7

Candidate Starts for Adumb2043_16:

(Start: 7 @10733 has 54 MA's), (18, 10889), (19, 10898), (22, 10913), (33, 10979), (38, 11039), (43, 11084), (52, 11156), (63, 11237), (64, 11240), (66, 11270), (72, 11324), (76, 11354), (83, 11411), (86, 11435), (94, 11495), (95, 11501), (167, 11720), (200, 11816), (209, 11849), (232, 11936), (246, 11990), (257, 12032), (269, 12071), (286, 12131), (320, 12272), (362, 12401), (364, 12410), (388, 12521), (406, 12653), (407, 12656), (413, 12689), (428, 12767), (435, 12806), (446, 12866), (462, 12956),

Gene: AinMach_15 Start: 9852, Stop: 12212, Start Num: 7

Candidate Starts for AinMach_15:

(Start: 7 @9852 has 54 MA's), (18, 10008), (22, 10032), (33, 10098), (38, 10158), (52, 10275), (59, 10338), (63, 10356), (64, 10359), (66, 10389), (72, 10443), (76, 10473), (83, 10530), (86, 10554), (89, 10584), (91, 10596), (93, 10608), (94, 10614), (98, 10635), (232, 10980), (234, 10989), (286, 11175), (325, 11346), (327, 11391), (328, 11400), (332, 11424), (334, 11436), (337, 11460), (339, 11469), (341, 11478), (369, 11610), (378, 11655), (387, 11688), (389, 11709), (390, 11712), (402, 11796), (408, 11838), (426, 11928), (431, 11958),

Gene: Alucard_12 Start: 7541, Stop: 9646, Start Num: 9

Candidate Starts for Alucard_12:

(Start: 9 @7541 has 111 MA's), (11, 7562), (35, 7739), (36, 7748), (37, 7772), (45, 7844), (49, 7868), (50, 7874), (68, 8024), (70, 8045), (72, 8057), (73, 8066), (103, 8273), (107, 8291), (141, 8378), (163, 8447), (168, 8459), (185, 8507), (205, 8537), (209, 8552), (221, 8588), (226, 8615), (232, 8636), (240, 8660), (247, 8684), (249, 8690), (256, 8717), (267, 8750), (276, 8789), (285, 8816), (290, 8837), (294, 8852), (306, 8879), (307, 8882), (314, 8903), (316, 8915), (318, 8921), (343, 8969), (351, 9005), (364, 9053), (370, 9080), (375, 9101), (393, 9164), (396, 9188), (405, 9245), (426, 9350), (429, 9371), (432, 9383), (438, 9425), (441, 9446), (447, 9467), (467, 9596),

Gene: Amyev_16 Start: 10746, Stop: 13070, Start Num: 7

Candidate Starts for Amyev_16:

(Start: 7 @10746 has 54 MA's), (18, 10902), (19, 10911), (33, 10992), (38, 11052), (43, 11097), (52, 11169), (58, 11229), (63, 11250), (64, 11253), (66, 11283), (72, 11337), (76, 11367), (83, 11424), (86, 11448), (94, 11508), (95, 11514), (125, 11634), (167, 11733), (200, 11829), (219, 11901), (232, 11949), (237, 11970), (246, 12003), (257, 12045), (269, 12084), (286, 12144), (290, 12159), (304, 12225), (344, 12348), (346, 12357), (362, 12414), (364, 12423), (376, 12480), (377, 12483), (388,

12534), (406, 12666), (407, 12669), (428, 12780), (435, 12819), (438, 12843), (462, 12969),

Gene: Anseraureola_12 Start: 7563, Stop: 9671, Start Num: 9

Candidate Starts for Anseraureola_12:

(Start: 9 @7563 has 111 MA's), (11, 7584), (35, 7761), (36, 7770), (37, 7794), (45, 7866), (49, 7890), (50, 7896), (64, 7989), (68, 8046), (70, 8067), (72, 8079), (73, 8088), (103, 8295), (107, 8313), (141, 8400), (163, 8469), (168, 8481), (185, 8529), (205, 8559), (209, 8574), (221, 8610), (226, 8637), (233, 8661), (240, 8682), (247, 8706), (249, 8712), (256, 8739), (267, 8772), (276, 8811), (285, 8838), (290, 8859), (294, 8874), (306, 8901), (307, 8904), (316, 8937), (318, 8943), (343, 8991), (351, 9027), (364, 9075), (370, 9102), (375, 9123), (393, 9186), (396, 9210), (405, 9267), (426, 9372), (429, 9393), (432, 9405), (438, 9447), (447, 9489), (467, 9621),

Gene: Aries55_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Aries55_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Asa16_16 Start: 10703, Stop: 13027, Start Num: 7

Candidate Starts for Asa16_16:

(Start: 7 @10703 has 54 MA's), (17, 10856), (18, 10859), (19, 10868), (33, 10949), (38, 11009), (43, 11054), (52, 11126), (63, 11207), (64, 11210), (66, 11240), (72, 11294), (76, 11324), (83, 11381), (86, 11405), (94, 11465), (95, 11471), (101, 11495), (125, 11591), (167, 11690), (200, 11786), (209, 11819), (219, 11858), (232, 11906), (246, 11960), (257, 12002), (269, 12041), (274, 12059), (286, 12101), (307, 12194), (361, 12365), (364, 12380), (388, 12491), (406, 12623), (407, 12626), (413, 12659), (428, 12737), (435, 12776), (446, 12836), (462, 12926),

Gene: Ascela_16 Start: 10739, Stop: 13054, Start Num: 7

Candidate Starts for Ascela_16:

(Start: 7 @10739 has 54 MA's), (18, 10895), (21, 10913), (25, 10937), (33, 10985), (38, 11045), (43, 11090), (52, 11162), (64, 11246), (66, 11276), (72, 11330), (76, 11360), (83, 11417), (86, 11441), (94, 11501), (95, 11507), (167, 11726), (219, 11894), (232, 11942), (257, 12038), (269, 12077), (274, 12095), (286, 12137), (292, 12161), (304, 12218), (307, 12230), (344, 12341), (361, 12401), (364, 12416), (388, 12527), (403, 12638), (406, 12659), (407, 12662), (413, 12695), (428, 12773), (435, 12812), (452, 12902), (454, 12914), (468, 12998),

Gene: Astro16_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Astro16_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Avvas_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Avvas_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Azizam_12 Start: 7534, Stop: 9639, Start Num: 9

Candidate Starts for Azizam_12:

(Start: 9 @7534 has 111 MA's), (11, 7555), (35, 7732), (36, 7741), (37, 7765), (45, 7837), (49, 7861), (50, 7867), (68, 8017), (70, 8038), (72, 8050), (73, 8059), (103, 8266), (107, 8284), (141, 8371), (163, 8440), (168, 8452), (185, 8500), (205, 8530), (209, 8545), (226, 8608), (232, 8629), (233, 8632), (249, 8683), (256, 8710), (267, 8743), (276, 8782), (285, 8809), (290, 8830), (294, 8845), (306, 8872), (314, 8896), (316, 8908), (318, 8914), (343, 8962), (364, 9046), (370, 9073), (375, 9094), (393, 9157), (396, 9181), (401, 9205), (404, 9226), (426, 9343), (429, 9364), (432, 9376), (438, 9418), (441, 9439), (447, 9460), (467, 9589),

Gene: Aztec_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Aztec_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Baine_12 Start: 7538, Stop: 9646, Start Num: 9

Candidate Starts for Baine_12:

(Start: 9 @7538 has 111 MA's), (11, 7559), (35, 7736), (36, 7745), (37, 7769), (45, 7841), (49, 7865), (50, 7871), (64, 7964), (68, 8021), (70, 8042), (72, 8054), (73, 8063), (103, 8270), (107, 8288), (141, 8375), (163, 8444), (168, 8456), (185, 8504), (205, 8534), (209, 8549), (221, 8585), (226, 8612), (240, 8657), (247, 8681), (249, 8687), (256, 8714), (267, 8747), (276, 8786), (285, 8813), (290, 8834), (294, 8849), (306, 8876), (307, 8879), (316, 8912), (318, 8918), (343, 8966), (351, 9002), (364, 9050), (370, 9077), (375, 9098), (393, 9161), (396, 9185), (405, 9242), (426, 9347), (429, 9368), (432, 9380), (438, 9422), (447, 9464), (467, 9596),

Gene: BarBear_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for BarBear_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Barnstormer_14 Start: 9927, Stop: 12275, Start Num: 7

Candidate Starts for Barnstormer_14:

(Start: 7 @9927 has 54 MA's), (27, 10110), (37, 10206), (51, 10314), (57, 10374), (81, 10569), (90, 10632), (104, 10716), (107, 10728), (108, 10731), (121, 10782), (133, 10833), (146, 10920), (161, 10980), (167, 11004), (183, 11085), (204, 11145), (212, 11166), (226, 11226), (232, 11247), (236,

11256), (251, 11307), (274, 11394), (276, 11403), (308, 11499), (310, 11505), (318, 11538), (354, 11634), (364, 11673), (396, 11811), (406, 11874), (428, 11985), (447, 12090), (453, 12126),

Gene: Belthelas_12 Start: 7590, Stop: 9695, Start Num: 9

Candidate Starts for Belthelas_12:

(Start: 9 @7590 has 111 MA's), (11, 7611), (35, 7788), (36, 7797), (37, 7821), (45, 7893), (49, 7917), (50, 7923), (64, 8016), (68, 8073), (70, 8094), (72, 8106), (73, 8115), (103, 8322), (107, 8340), (141, 8427), (163, 8496), (168, 8508), (185, 8556), (205, 8586), (209, 8601), (221, 8637), (226, 8664), (233, 8688), (240, 8709), (247, 8733), (249, 8739), (256, 8766), (267, 8799), (276, 8838), (285, 8865), (290, 8886), (294, 8901), (306, 8928), (307, 8931), (314, 8952), (316, 8964), (318, 8970), (343, 9018), (351, 9054), (364, 9102), (370, 9129), (375, 9150), (393, 9213), (396, 9237), (405, 9294), (426, 9399), (429, 9420), (432, 9432), (438, 9474), (441, 9495), (447, 9516), (467, 9645),

Gene: Benry_19 Start: 11509, Stop: 13800, Start Num: 8

Candidate Starts for Benry_19:

(Start: 8 @11509 has 5 MA's), (19, 11626), (26, 11659), (42, 11800), (52, 11878), (54, 11902), (69, 12034), (77, 12085), (82, 12136), (85, 12157), (97, 12235), (102, 12271), (103, 12274), (105, 12295), (117, 12352), (130, 12436), (148, 12481), (150, 12484), (155, 12502), (160, 12520), (166, 12544), (196, 12706), (214, 12772), (223, 12805), (226, 12826), (234, 12859), (235, 12862), (282, 13030), (287, 13048), (292, 13069), (310, 13147), (318, 13180), (353, 13279), (363, 13315), (364, 13321), (370, 13348), (400, 13387), (406, 13432), (409, 13444), (411, 13456), (412, 13465), (413, 13468), (435, 13582), (443, 13633), (445, 13639), (448, 13648),

Gene: Berrie_16 Start: 10711, Stop: 13188, Start Num: 7

Candidate Starts for Berrie_16:

(Start: 7 @10711 has 54 MA's), (18, 10867), (19, 10876), (33, 10957), (38, 11017), (43, 11062), (52, 11134), (64, 11218), (66, 11248), (72, 11302), (76, 11332), (83, 11389), (86, 11413), (94, 11473), (95, 11479), (101, 11503), (118, 11581), (142, 11713), (156, 11749), (167, 11791), (186, 11890), (201, 11962), (212, 12001), (219, 12028), (232, 12076), (246, 12130), (257, 12172), (268, 12208), (274, 12229), (286, 12271), (307, 12364), (344, 12475), (347, 12487), (361, 12535), (364, 12550), (406, 12793), (407, 12796), (428, 12907), (435, 12946), (449, 13021), (452, 13036), (468, 13132),

Gene: BinkBonk_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for BinkBonk_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Bintii_12 Start: 7572, Stop: 9677, Start Num: 9

Candidate Starts for Bintii_12:

(Start: 2 @7476 has 7 MA's), (Start: 9 @7572 has 111 MA's), (11, 7593), (35, 7770), (36, 7779), (37, 7803), (45, 7875), (49, 7899), (64, 7998), (70, 8076), (72, 8088), (73, 8097), (103, 8304), (107, 8322), (141, 8409), (163, 8478), (168, 8490), (185, 8538), (205, 8568), (209, 8583), (224, 8637), (232, 8667), (233, 8670), (240, 8691), (249, 8721), (256, 8748), (267, 8781), (276, 8820), (285, 8847), (286, 8853), (290, 8868), (294, 8883), (306, 8910), (307, 8913), (314, 8934), (316, 8946), (318, 8952), (343, 9000), (351, 9036), (364, 9084), (370, 9111), (375, 9132), (393, 9195), (396, 9219), (405, 9276), (426, 9381), (429, 9402), (432, 9414), (438, 9456), (441, 9477), (447, 9498),

Gene: Biscayne_12 Start: 7608, Stop: 9713, Start Num: 9

Candidate Starts for Biscayne_12:

(Start: 9 @7608 has 111 MA's), (11, 7629), (35, 7806), (36, 7815), (37, 7839), (45, 7911), (49, 7935), (50, 7941), (68, 8091), (70, 8112), (72, 8124), (73, 8133), (103, 8340), (107, 8358), (141, 8445), (163, 8514), (168, 8526), (185, 8574), (205, 8604), (209, 8619), (221, 8655), (226, 8682), (232, 8703), (240, 8727), (247, 8751), (249, 8757), (256, 8784), (267, 8817), (276, 8856), (285, 8883), (290, 8904), (294, 8919), (306, 8946), (307, 8949), (314, 8970), (316, 8982), (318, 8988), (343, 9036), (364, 9120), (370, 9147), (375, 9168), (393, 9231), (396, 9255), (405, 9312), (426, 9417), (429, 9438), (432, 9450), (438, 9492), (441, 9513), (447, 9534), (467, 9663),

Gene: Bodhi17_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Bodhi17_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: BonaeVitae_12 Start: 7240, Stop: 9339, Start Num: 9

Candidate Starts for BonaeVitae_12:

(Start: 9 @7240 has 111 MA's), (10, 7255), (11, 7261), (17, 7321), (27, 7375), (35, 7438), (36, 7447), (37, 7471), (45, 7543), (49, 7567), (64, 7666), (68, 7723), (72, 7756), (73, 7765), (120, 8032), (141, 8077), (166, 8149), (179, 8179), (205, 8236), (209, 8251), (228, 8320), (242, 8365), (247, 8383), (249, 8389), (267, 8449), (268, 8455), (272, 8470), (276, 8488), (285, 8515), (300, 8557), (314, 8602), (318, 8620), (341, 8647), (359, 8734), (364, 8752), (370, 8779), (378, 8821), (393, 8863), (394, 8866), (396, 8887), (416, 8998), (429, 9070), (432, 9082), (437, 9112), (438, 9124), (441, 9145), (463, 9253), (467, 9289),

Gene: BoomRoasted_12 Start: 7587, Stop: 9692, Start Num: 9

Candidate Starts for BoomRoasted_12:

(Start: 9 @7587 has 111 MA's), (11, 7608), (35, 7785), (36, 7794), (37, 7818), (45, 7890), (49, 7914), (50, 7920), (64, 8013), (68, 8070), (70, 8091), (72, 8103), (73, 8112), (103, 8319), (107, 8337), (141, 8424), (163, 8493), (168, 8505), (185, 8553), (205, 8583), (209, 8598), (221, 8634), (226, 8661), (233, 8685), (240, 8706), (247, 8730), (249, 8736), (256, 8763), (267, 8796), (276, 8835), (285, 8862), (290, 8883), (294, 8898), (306, 8925), (307, 8928), (314, 8949), (316, 8961), (318, 8967), (343, 9015), (351, 9051), (364, 9099), (370, 9126), (375, 9147), (393, 9210), (396, 9234), (405, 9291), (426, 9396), (429, 9417), (432, 9429), (438, 9471), (441, 9492), (447, 9513), (467, 9642),

Gene: Bradley2_12 Start: 7539, Stop: 9644, Start Num: 9

Candidate Starts for Bradley2_12:

(Start: 9 @7539 has 111 MA's), (11, 7560), (35, 7737), (36, 7746), (37, 7770), (45, 7842), (49, 7866), (50, 7872), (68, 8022), (70, 8043), (72, 8055), (73, 8064), (103, 8271), (107, 8289), (141, 8376), (163, 8445), (168, 8457), (185, 8505), (205, 8535), (209, 8550), (221, 8586), (226, 8613), (232, 8634), (240, 8658), (247, 8682), (249, 8688), (256, 8715), (267, 8748), (276, 8787), (285, 8814), (290, 8835), (294, 8850), (306, 8877), (307, 8880), (314, 8901), (316, 8913), (318, 8919), (343, 8967), (351, 9003), (364, 9051), (370, 9078), (375, 9099), (393, 9162), (396, 9186), (405, 9243), (426, 9348), (429, 9369), (432, 9381), (438, 9423), (441, 9444), (447, 9465), (467, 9594),

Gene: Bri160_12 Start: 7586, Stop: 9691, Start Num: 9

Candidate Starts for Bri160_12:

(Start: 9 @7586 has 111 MA's), (11, 7607), (35, 7784), (36, 7793), (37, 7817), (45, 7889), (49, 7913), (50, 7919), (64, 8012), (68, 8069), (70, 8090), (72, 8102), (73, 8111), (103, 8318), (107, 8336), (141,

8423), (163, 8492), (168, 8504), (185, 8552), (205, 8582), (209, 8597), (221, 8633), (226, 8660), (233, 8684), (240, 8705), (247, 8729), (249, 8735), (256, 8762), (267, 8795), (276, 8834), (285, 8861), (290, 8882), (294, 8897), (306, 8924), (307, 8927), (314, 8948), (316, 8960), (318, 8966), (343, 9014), (351, 9050), (364, 9098), (370, 9125), (375, 9146), (393, 9209), (396, 9233), (405, 9290), (426, 9395), (429, 9416), (432, 9428), (438, 9470), (441, 9491), (447, 9512), (467, 9641),

Gene: BrokMonster_12 Start: 7529, Stop: 9634, Start Num: 9

Candidate Starts for BrokMonster_12:

(Start: 9 @7529 has 111 MA's), (11, 7550), (35, 7727), (36, 7736), (37, 7760), (45, 7832), (49, 7856), (50, 7862), (64, 7955), (68, 8012), (70, 8033), (72, 8045), (73, 8054), (103, 8261), (107, 8279), (141, 8366), (163, 8435), (168, 8447), (185, 8495), (205, 8525), (209, 8540), (226, 8603), (232, 8624), (233, 8627), (249, 8678), (256, 8705), (267, 8738), (276, 8777), (285, 8804), (290, 8825), (294, 8840), (306, 8867), (314, 8891), (316, 8903), (318, 8909), (343, 8957), (364, 9041), (370, 9068), (375, 9089), (393, 9152), (396, 9176), (405, 9233), (426, 9338), (429, 9359), (432, 9371), (438, 9413), (441, 9434), (447, 9455), (467, 9584),

Gene: Bullzi2019_12 Start: 7561, Stop: 9666, Start Num: 9

Candidate Starts for Bullzi2019_12:

(Start: 9 @7561 has 111 MA's), (11, 7582), (35, 7759), (36, 7768), (37, 7792), (45, 7864), (49, 7888), (64, 7987), (70, 8065), (72, 8077), (73, 8086), (103, 8293), (107, 8311), (141, 8398), (163, 8467), (168, 8479), (185, 8527), (205, 8557), (209, 8572), (224, 8626), (232, 8656), (233, 8659), (240, 8680), (249, 8710), (256, 8737), (267, 8770), (276, 8809), (285, 8836), (286, 8842), (290, 8857), (294, 8872), (306, 8899), (307, 8902), (314, 8923), (316, 8935), (318, 8941), (343, 8989), (351, 9025), (364, 9073), (370, 9100), (375, 9121), (393, 9184), (396, 9208), (405, 9265), (426, 9370), (429, 9391), (438, 9445), (441, 9466), (447, 9487),

Gene: Burgy_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Burgy_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: BurtonThePup_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for BurtonThePup_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Caron_14 Start: 9969, Stop: 12317, Start Num: 7

Candidate Starts for Caron_14:

(Start: 7 @9969 has 54 MA's), (27, 10152), (37, 10248), (51, 10356), (57, 10416), (81, 10611), (90, 10674), (104, 10758), (107, 10770), (108, 10773), (121, 10824), (133, 10875), (145, 10956), (161, 11022), (167, 11046), (183, 11127), (204, 11187), (212, 11208), (236, 11298), (251, 11349), (276, 11445), (308, 11541), (310, 11547), (313, 11559), (318, 11580), (355, 11682), (364, 11715), (375, 11763), (396, 11853), (406, 11916), (409, 11928), (428, 12027), (447, 12132), (453, 12168),

Gene: Cassia_16 Start: 10826, Stop: 13150, Start Num: 7

Candidate Starts for Cassia_16:

(Start: 7 @10826 has 54 MA's), (18, 10982), (19, 10991), (20, 10994), (33, 11072), (38, 11132), (52, 11249), (63, 11330), (64, 11333), (66, 11363), (76, 11447), (83, 11504), (86, 11528), (94, 11588), (95, 11594), (167, 11813), (219, 11981), (232, 12029), (246, 12083), (257, 12125), (269, 12164), (286, 12224), (307, 12317), (355, 12470), (358, 12482), (376, 12560), (377, 12563), (388, 12614), (406, 12746), (407, 12749), (428, 12860), (435, 12899),

Gene: Cayde6_12 Start: 7538, Stop: 9646, Start Num: 9

Candidate Starts for Cayde6_12:

(Start: 9 @7538 has 111 MA's), (11, 7559), (35, 7736), (36, 7745), (37, 7769), (45, 7841), (49, 7865), (50, 7871), (64, 7964), (68, 8021), (70, 8042), (72, 8054), (73, 8063), (103, 8270), (107, 8288), (141, 8375), (163, 8444), (168, 8456), (185, 8504), (205, 8534), (209, 8549), (221, 8585), (226, 8612), (240, 8657), (247, 8681), (249, 8687), (256, 8714), (267, 8747), (276, 8786), (285, 8813), (290, 8834), (294, 8849), (306, 8876), (307, 8879), (316, 8912), (318, 8918), (343, 8966), (351, 9002), (364, 9050), (370, 9077), (375, 9098), (393, 9161), (396, 9185), (405, 9242), (426, 9347), (429, 9368), (432, 9380), (438, 9422), (447, 9464), (467, 9596),

Gene: Cazares_11 Start: 7552, Stop: 9636, Start Num: 11

Candidate Starts for Cazares_11:

(Start: 9 @7531 has 111 MA's), (11, 7552), (35, 7729), (36, 7738), (37, 7762), (45, 7834), (49, 7858), (64, 7957), (68, 8014), (70, 8035), (72, 8047), (73, 8056), (103, 8263), (107, 8281), (141, 8368), (163, 8437), (168, 8449), (185, 8497), (205, 8527), (209, 8542), (232, 8626), (233, 8629), (240, 8650), (249, 8680), (256, 8707), (267, 8740), (276, 8779), (285, 8806), (286, 8812), (290, 8827), (294, 8842), (307, 8872), (314, 8893), (316, 8905), (318, 8911), (343, 8959), (351, 8995), (364, 9043), (370, 9070), (375, 9091), (393, 9154), (396, 9178), (405, 9235), (426, 9340), (429, 9361), (438, 9415), (441, 9436), (447, 9457),

Gene: Cen1621_14 Start: 9057, Stop: 11342, Start Num: 7

Candidate Starts for Cen1621_14:

(Start: 7 @9057 has 54 MA's), (22, 9216), (34, 9294), (37, 9336), (51, 9444), (55, 9495), (57, 9504), (68, 9588), (72, 9621), (75, 9645), (81, 9699), (90, 9762), (107, 9858), (108, 9861), (189, 10152), (201, 10173), (224, 10254), (240, 10308), (242, 10314), (254, 10353), (261, 10386), (286, 10470), (297, 10518), (312, 10578), (316, 10596), (341, 10629), (343, 10650), (348, 10677), (357, 10710), (364, 10734), (366, 10743), (393, 10845), (406, 10932), (425, 11028), (435, 11082), (437, 11094), (455, 11187),

Gene: Charbie_12 Start: 7528, Stop: 9633, Start Num: 9

Candidate Starts for Charbie_12:

(Start: 9 @7528 has 111 MA's), (11, 7549), (35, 7726), (36, 7735), (37, 7759), (45, 7831), (49, 7855), (50, 7861), (68, 8011), (70, 8032), (72, 8044), (73, 8053), (103, 8260), (107, 8278), (141, 8365), (163, 8434), (168, 8446), (185, 8494), (205, 8524), (209, 8539), (221, 8575), (226, 8602), (232, 8623), (240, 8647), (247, 8671), (249, 8677), (256, 8704), (267, 8737), (276, 8776), (285, 8803), (290, 8824), (294, 8839), (306, 8866), (307, 8869), (314, 8890), (316, 8902), (318, 8908), (343, 8956), (362, 9031), (364, 9040), (370, 9067), (375, 9088), (393, 9151), (396, 9175), (405, 9232), (426, 9337), (429, 9358), (432, 9370), (438, 9412), (441, 9433), (447, 9454),

Gene: Chatham_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Chatham_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240,

8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Cheesecake_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Cheesecake_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Ciel_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Ciel_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Clownery_12 Start: 7648, Stop: 9753, Start Num: 9

Candidate Starts for Clownery_12:

(Start: 9 @7648 has 111 MA's), (11, 7669), (35, 7846), (36, 7855), (37, 7879), (45, 7951), (49, 7975), (64, 8074), (68, 8131), (70, 8152), (72, 8164), (73, 8173), (103, 8380), (107, 8398), (141, 8485), (163, 8554), (168, 8566), (185, 8614), (205, 8644), (209, 8659), (232, 8743), (233, 8746), (240, 8767), (249, 8797), (256, 8824), (267, 8857), (276, 8896), (285, 8923), (286, 8929), (290, 8944), (294, 8959), (307, 8989), (314, 9010), (316, 9022), (318, 9028), (343, 9076), (351, 9112), (364, 9160), (370, 9187), (375, 9208), (393, 9271), (396, 9295), (405, 9352), (426, 9457), (429, 9478), (438, 9532), (441, 9553), (447, 9574),

Gene: Community_16 Start: 11793, Stop: 14270, Start Num: 7

Candidate Starts for Community_16:

(Start: 7 @11793 has 54 MA's), (18, 11949), (19, 11958), (33, 12039), (38, 12099), (43, 12144), (52, 12216), (64, 12300), (66, 12330), (72, 12384), (76, 12414), (83, 12471), (86, 12495), (94, 12555), (95, 12561), (101, 12585), (118, 12663), (123, 12696), (156, 12831), (167, 12873), (186, 12972), (201, 13044), (212, 13083), (219, 13110), (232, 13158), (240, 13191), (257, 13254), (274, 13311), (286, 13353), (290, 13368), (307, 13446), (347, 13569), (361, 13617), (364, 13632), (384, 13725), (388, 13743), (389, 13755), (406, 13875), (407, 13878), (428, 13989), (435, 14028), (452, 14118),

Gene: Concrete_12 Start: 7587, Stop: 9692, Start Num: 9

Candidate Starts for Concrete_12:

(Start: 9 @7587 has 111 MA's), (11, 7608), (35, 7785), (36, 7794), (37, 7818), (45, 7890), (49, 7914), (50, 7920), (64, 8013), (68, 8070), (70, 8091), (72, 8103), (73, 8112), (103, 8319), (107, 8337), (141, 8424), (163, 8493), (168, 8505), (185, 8553), (205, 8583), (209, 8598), (221, 8634), (226, 8661), (233, 8685), (240, 8706), (247, 8730), (249, 8736), (256, 8763), (267, 8796), (276, 8835), (285, 8862), (290, 8883), (294, 8898), (306, 8925), (307, 8928), (314, 8949), (316, 8961), (318, 8967), (343, 9015), (351, 9051), (364, 9099), (370, 9126), (375, 9147), (393, 9210), (396, 9234), (405, 9291), (426, 9396), (429, 9417), (432, 9429), (438, 9471), (441, 9492), (447, 9513), (467, 9642),

Gene: Crewmate_17 Start: 11180, Stop: 13486, Start Num: 7

Candidate Starts for Crewmate_17:

(Start: 7 @11180 has 54 MA's), (17, 11333), (18, 11336), (19, 11345), (38, 11486), (52, 11603), (64, 11687), (66, 11717), (72, 11771), (83, 11858), (86, 11882), (94, 11942), (95, 11948), (105, 12014), (166, 12164), (167, 12167), (216, 12326), (219, 12335), (232, 12383), (246, 12437), (257, 12479), (269, 12518), (286, 12578), (290, 12593), (307, 12671), (320, 12719), (347, 12794), (351, 12806), (362, 12848), (364, 12857), (388, 12968), (406, 13100), (407, 13103), (428, 13214), (435, 13253), (444, 13307), (449, 13328), (452, 13343), (465, 13421),

Gene: Cyan_16 Start: 10730, Stop: 13045, Start Num: 7

Candidate Starts for Cyan_16:

(Start: 7 @10730 has 54 MA's), (18, 10886), (19, 10895), (33, 10976), (34, 10988), (38, 11036), (52, 11153), (63, 11234), (64, 11237), (66, 11267), (72, 11321), (76, 11351), (83, 11408), (86, 11432), (94, 11492), (167, 11717), (200, 11813), (219, 11885), (232, 11933), (246, 11987), (257, 12029), (269, 12068), (286, 12128), (364, 12407), (369, 12431), (376, 12464), (377, 12467), (388, 12518), (403, 12629), (406, 12650), (407, 12653), (413, 12686), (428, 12764), (435, 12803), (446, 12863), (452, 12893), (462, 12944), (468, 12989), (472, 13034),

Gene: DaftyDuck_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for DaftyDuck_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472), (467, 9601),

Gene: Danimal_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Danimal_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Danno_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Danno_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Dongwon_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Dongwon_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163,

8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Dooby_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Dooby_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Douggie_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Douggie_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: DrManhattan_16 Start: 10713, Stop: 12947, Start Num: 7

Candidate Starts for DrManhattan_16:

(Start: 7 @10713 has 54 MA's), (12, 10788), (18, 10869), (19, 10878), (24, 10905), (33, 10959), (34, 10971), (38, 11019), (40, 11031), (52, 11136), (63, 11217), (64, 11220), (66, 11250), (76, 11334), (83, 11391), (86, 11415), (91, 11457), (94, 11475), (101, 11505), (106, 11544), (111, 11562), (157, 11634), (158, 11637), (165, 11655), (193, 11700), (207, 11757), (216, 11796), (219, 11805), (232, 11853), (234, 11862), (257, 11949), (260, 11961), (269, 11988), (274, 12006), (286, 12048), (310, 12150), (339, 12210), (347, 12264), (352, 12282), (359, 12309), (362, 12318), (381, 12408), (387, 12429), (391, 12462), (398, 12516), (402, 12537), (426, 12669), (431, 12699), (457, 12828), (465, 12882),

Gene: DrSierra_16 Start: 10741, Stop: 13035, Start Num: 7

Candidate Starts for DrSierra_16:

(Start: 7 @10741 has 54 MA's), (18, 10897), (19, 10906), (21, 10915), (24, 10933), (33, 10987), (34, 10999), (38, 11047), (52, 11164), (63, 11245), (64, 11248), (66, 11278), (72, 11332), (76, 11362), (79, 11404), (83, 11419), (86, 11443), (91, 11485), (94, 11503), (117, 11608), (167, 11728), (207, 11848), (212, 11869), (216, 11887), (219, 11896), (232, 11944), (234, 11953), (246, 11998), (257, 12040), (269, 12079), (274, 12097), (286, 12139), (310, 12241), (322, 12286), (339, 12301), (347, 12355), (352, 12373), (359, 12400), (362, 12409), (381, 12499), (391, 12553), (398, 12607), (402, 12628), (426, 12760), (431, 12790), (465, 12970),

Gene: EdElric_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for EdElric_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Edmundo_67 Start: 37140, Stop: 40157, Start Num: 2

Candidate Starts for Edmundo_67:

(Start: 2 @37140 has 7 MA's), (4, 37161), (6, 37191), (Start: 7 @37194 has 54 MA's), (15, 37299), (28, 37392), (35, 37452), (58, 37662), (60, 37668), (61, 37671), (62, 37674), (65, 37701), (69, 37761), (77, 37812), (80, 37854), (81, 37857), (85, 37884), (92, 37941), (96, 37959), (124, 38109), (133, 38169), (149, 38202), (151, 38211), (169, 38277), (174, 38301), (191, 38397), (201, 38445), (202, 38448), (206, 38460), (211, 38481), (215, 38493), (227, 38544), (252, 38637), (255, 38652), (278, 38727), (288, 38760), (291, 38772), (293, 38781), (299, 38811), (301, 38826), (304, 38835), (308, 38850), (323, 38904), (343, 38943), (373, 39069), (423, 39219), (427, 39240), (433, 39273), (434, 39276), (436, 39294), (439, 39318), (442, 39330), (448, 39351), (469, 39486), (471, 39507), (473, 39528), (474, 39570), (475, 39573), (478, 39681), (479, 39705), (480, 39714), (482, 39768), (483, 39777), (485, 39840), (487, 39870), (488, 39879), (490, 39978), (491, 39984), (493, 40014), (494, 40053), (496, 40140),

Gene: Efeko_13 Start: 7413, Stop: 9512, Start Num: 9

Candidate Starts for Efeko_13:

(Start: 9 @7413 has 111 MA's), (30, 7557), (32, 7572), (34, 7602), (36, 7620), (37, 7644), (45, 7716), (49, 7740), (50, 7746), (64, 7839), (70, 7917), (72, 7929), (73, 7938), (103, 8145), (109, 8169), (111, 8178), (120, 8205), (141, 8250), (157, 8295), (213, 8430), (225, 8478), (228, 8490), (238, 8523), (247, 8556), (249, 8562), (254, 8577), (258, 8598), (276, 8661), (279, 8670), (286, 8694), (288, 8700), (290, 8709), (300, 8730), (306, 8751), (307, 8754), (314, 8775), (316, 8787), (318, 8793), (341, 8820), (343, 8841), (348, 8868), (359, 8907), (364, 8925), (370, 8952), (375, 8973), (393, 9036), (394, 9039), (396, 9060), (404, 9105), (416, 9171), (426, 9222), (429, 9243), (432, 9255), (438, 9297), (462, 9420), (463, 9426),

Gene: Eightball_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Eightball_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Ekko14_12 Start: 7529, Stop: 9634, Start Num: 9

Candidate Starts for Ekko14_12:

(Start: 9 @7529 has 111 MA's), (11, 7550), (35, 7727), (36, 7736), (37, 7760), (45, 7832), (49, 7856), (64, 7955), (70, 8033), (72, 8045), (73, 8054), (103, 8261), (107, 8279), (141, 8366), (163, 8435), (168, 8447), (185, 8495), (205, 8525), (209, 8540), (232, 8624), (233, 8627), (240, 8648), (249, 8678), (256, 8705), (267, 8738), (276, 8777), (285, 8804), (286, 8810), (290, 8825), (294, 8840), (307, 8870), (314, 8891), (316, 8903), (318, 8909), (343, 8957), (351, 8993), (364, 9041), (370, 9068), (375, 9089), (393, 9152), (396, 9176), (405, 9233), (426, 9338), (429, 9359), (438, 9413), (441, 9434), (447, 9455),

Gene: Elezi_16 Start: 10704, Stop: 13028, Start Num: 7

Candidate Starts for Elezi_16:

(Start: 7 @10704 has 54 MA's), (17, 10857), (18, 10860), (19, 10869), (33, 10950), (38, 11010), (43, 11055), (52, 11127), (63, 11208), (64, 11211), (66, 11241), (72, 11295), (76, 11325), (83, 11382), (86, 11406), (94, 11466), (95, 11472), (101, 11496), (125, 11592), (167, 11691), (200, 11787), (219, 11859), (232, 11907), (246, 11961), (257, 12003), (269, 12042), (274, 12060), (286, 12102), (307,

12195), (361, 12366), (364, 12381), (388, 12492), (406, 12624), (407, 12627), (413, 12660), (428, 12738), (435, 12777), (446, 12837), (462, 12927),

Gene: Elspeth_11 Start: 7529, Stop: 9634, Start Num: 9

Candidate Starts for Elspeth_11:

(Start: 9 @7529 has 111 MA's), (11, 7550), (35, 7727), (36, 7736), (37, 7760), (45, 7832), (49, 7856), (64, 7955), (70, 8033), (72, 8045), (73, 8054), (103, 8261), (107, 8279), (141, 8366), (163, 8435), (168, 8447), (185, 8495), (205, 8525), (209, 8540), (232, 8624), (233, 8627), (240, 8648), (249, 8678), (256, 8705), (267, 8738), (276, 8777), (285, 8804), (286, 8810), (290, 8825), (294, 8840), (307, 8870), (314, 8891), (316, 8903), (318, 8909), (343, 8957), (351, 8993), (364, 9041), (370, 9068), (375, 9089), (393, 9152), (396, 9176), (405, 9233), (426, 9338), (429, 9359), (438, 9413), (441, 9434), (447, 9455),

Gene: Emotion_15 Start: 9044, Stop: 11284, Start Num: 7

Candidate Starts for Emotion_15:

(Start: 7 @9044 has 54 MA's), (13, 9131), (26, 9233), (35, 9299), (47, 9404), (60, 9515), (62, 9521), (77, 9659), (81, 9704), (96, 9806), (100, 9824), (126, 9938), (162, 10034), (180, 10121), (188, 10160), (193, 10184), (198, 10208), (200, 10217), (205, 10235), (212, 10262), (227, 10313), (231, 10325), (245, 10382), (259, 10436), (272, 10478), (303, 10607), (318, 10664), (362, 10796), (363, 10799), (406, 10916), (424, 11012), (426, 11018), (431, 11048),

Gene: Eraser_16 Start: 10704, Stop: 13028, Start Num: 7

Candidate Starts for Eraser_16:

(Start: 7 @10704 has 54 MA's), (17, 10857), (18, 10860), (19, 10869), (33, 10950), (38, 11010), (43, 11055), (52, 11127), (63, 11208), (64, 11211), (66, 11241), (72, 11295), (76, 11325), (83, 11382), (86, 11406), (94, 11466), (95, 11472), (101, 11496), (125, 11592), (167, 11691), (200, 11787), (209, 11820), (219, 11859), (232, 11907), (246, 11961), (257, 12003), (269, 12042), (274, 12060), (286, 12102), (307, 12195), (361, 12366), (364, 12381), (388, 12492), (406, 12624), (407, 12627), (413, 12660), (428, 12738), (435, 12777), (446, 12837),

Gene: Erin_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Erin_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: FireCastle_19 Start: 13235, Stop: 15373, Start Num: 8

Candidate Starts for FireCastle_19:

(Start: 8 @13235 has 5 MA's), (26, 13385), (52, 13604), (53, 13619), (61, 13670), (77, 13811), (81, 13856), (84, 13877), (87, 13901), (99, 13973), (102, 13997), (103, 14000), (114, 14069), (117, 14078), (119, 14084), (130, 14162), (132, 14168), (150, 14210), (168, 14279), (172, 14294), (175, 14312), (187, 14345), (192, 14378), (230, 14477), (235, 14501), (244, 14534), (311, 14756), (322, 14798), (338, 14807), (350, 14873), (409, 15017), (419, 15062), (422, 15083), (424, 15098), (430, 15128), (439, 15188), (445, 15212),

Gene: Gabbspett_12 Start: 7641, Stop: 9746, Start Num: 9

Candidate Starts for Gabbspett_12:

(Start: 9 @7641 has 111 MA's), (11, 7662), (35, 7839), (36, 7848), (37, 7872), (45, 7944), (49, 7968), (50, 7974), (68, 8124), (70, 8145), (72, 8157), (73, 8166), (103, 8373), (107, 8391), (141, 8478), (163, 8547), (168, 8559), (185, 8607), (205, 8637), (209, 8652), (221, 8688), (226, 8715), (232, 8736), (240,

8760), (247, 8784), (249, 8790), (256, 8817), (267, 8850), (276, 8889), (285, 8916), (290, 8937), (294, 8952), (306, 8979), (307, 8982), (314, 9003), (316, 9015), (318, 9021), (343, 9069), (362, 9144), (364, 9153), (370, 9180), (375, 9201), (393, 9264), (396, 9288), (405, 9345), (426, 9450), (429, 9471), (432, 9483), (438, 9525), (441, 9546), (447, 9567),

Gene: GardenState_15 Start: 10196, Stop: 12547, Start Num: 7

Candidate Starts for GardenState_15:

(Start: 7 @10196 has 54 MA's), (27, 10379), (51, 10595), (57, 10655), (68, 10739), (73, 10781), (81, 10850), (90, 10913), (107, 11009), (108, 11012), (121, 11063), (133, 11114), (153, 11228), (154, 11237), (164, 11276), (216, 11465), (239, 11549), (251, 11588), (256, 11609), (276, 11684), (310, 11786), (318, 11819), (358, 11933), (363, 11948), (364, 11954), (399, 12104), (405, 12149), (406, 12155), (428, 12266), (435, 12305), (447, 12371),

Gene: Gardevoir_12 Start: 7574, Stop: 9679, Start Num: 9

Candidate Starts for Gardevoir_12:

(Start: 9 @7574 has 111 MA's), (11, 7595), (35, 7772), (36, 7781), (37, 7805), (45, 7877), (49, 7901), (50, 7907), (68, 8057), (70, 8078), (72, 8090), (73, 8099), (103, 8306), (107, 8324), (141, 8411), (163, 8480), (168, 8492), (185, 8540), (205, 8570), (209, 8585), (221, 8621), (226, 8648), (232, 8669), (240, 8693), (247, 8717), (249, 8723), (256, 8750), (267, 8783), (276, 8822), (285, 8849), (290, 8870), (294, 8885), (306, 8912), (307, 8915), (314, 8936), (316, 8948), (318, 8954), (343, 9002), (351, 9038), (364, 9086), (370, 9113), (375, 9134), (393, 9197), (396, 9221), (405, 9278), (426, 9383), (429, 9404), (432, 9416), (438, 9458), (441, 9479), (447, 9500), (467, 9629),

Gene: Gillker_12 Start: 7539, Stop: 9644, Start Num: 9

Candidate Starts for Gillker_12:

(Start: 9 @7539 has 111 MA's), (11, 7560), (35, 7737), (36, 7746), (37, 7770), (45, 7842), (49, 7866), (50, 7872), (68, 8022), (70, 8043), (72, 8055), (73, 8064), (103, 8271), (107, 8289), (141, 8376), (163, 8445), (168, 8457), (185, 8505), (205, 8535), (209, 8550), (221, 8586), (226, 8613), (232, 8634), (240, 8658), (247, 8682), (249, 8688), (256, 8715), (267, 8748), (276, 8787), (285, 8814), (290, 8835), (294, 8850), (306, 8877), (307, 8880), (314, 8901), (316, 8913), (318, 8919), (343, 8967), (351, 9003), (364, 9051), (370, 9078), (375, 9099), (393, 9162), (396, 9186), (405, 9243), (426, 9348), (429, 9369), (432, 9381), (438, 9423), (441, 9444), (447, 9465), (467, 9594),

Gene: Godfather_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Godfather_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: GoldenBlanche_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for GoldenBlanche_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Goobery_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Goobery_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Halsey_20 Start: 10335, Stop: 12755, Start Num: 7

Candidate Starts for Halsey_20:

(Start: 7 @10335 has 54 MA's), (13, 10422), (27, 10527), (31, 10539), (36, 10599), (48, 10710), (57, 10791), (73, 10917), (75, 10932), (81, 10986), (108, 11160), (129, 11244), (133, 11265), (138, 11307), (163, 11433), (170, 11454), (177, 11487), (187, 11544), (194, 11586), (197, 11601), (210, 11652), (220, 11688), (222, 11694), (246, 11796), (253, 11817), (263, 11859), (281, 11919), (283, 11925), (295, 11973), (340, 12069), (383, 12246), (387, 12258), (397, 12309), (411, 12390), (424, 12459), (431, 12495), (446, 12576), (449, 12591), (462, 12663), (464, 12687),

Gene: HarperAnne_12 Start: 7528, Stop: 9633, Start Num: 9

Candidate Starts for HarperAnne_12:

(Start: 9 @7528 has 111 MA's), (11, 7549), (35, 7726), (36, 7735), (37, 7759), (45, 7831), (49, 7855), (64, 7954), (70, 8032), (72, 8044), (73, 8053), (103, 8260), (107, 8278), (141, 8365), (163, 8434), (168, 8446), (185, 8494), (205, 8524), (209, 8539), (232, 8623), (233, 8626), (240, 8647), (249, 8677), (256, 8704), (267, 8737), (276, 8776), (285, 8803), (286, 8809), (290, 8824), (294, 8839), (307, 8869), (314, 8890), (316, 8902), (318, 8908), (343, 8956), (351, 8992), (364, 9040), (370, 9067), (375, 9088), (393, 9151), (396, 9175), (405, 9232), (426, 9337), (429, 9358), (438, 9412), (441, 9433), (447, 9454),

Gene: Hernandez44_12 Start: 7641, Stop: 9746, Start Num: 9

Candidate Starts for Hernandez44_12:

(Start: 9 @7641 has 111 MA's), (11, 7662), (35, 7839), (36, 7848), (37, 7872), (45, 7944), (49, 7968), (50, 7974), (68, 8124), (70, 8145), (72, 8157), (73, 8166), (103, 8373), (107, 8391), (141, 8478), (163, 8547), (168, 8559), (185, 8607), (205, 8637), (209, 8652), (221, 8688), (226, 8715), (232, 8736), (240, 8760), (247, 8784), (249, 8790), (256, 8817), (267, 8850), (276, 8889), (285, 8916), (290, 8937), (294, 8952), (306, 8979), (307, 8982), (314, 9003), (316, 9015), (318, 9021), (343, 9069), (362, 9144), (364, 9153), (370, 9180), (375, 9201), (393, 9264), (396, 9288), (405, 9345), (426, 9450), (429, 9471), (432, 9483), (438, 9525), (441, 9546), (447, 9567),

Gene: Honk_14 Start: 9008, Stop: 11266, Start Num: 7

Candidate Starts for Honk_14:

(Start: 7 @9008 has 54 MA's), (22, 9167), (27, 9191), (31, 9203), (34, 9245), (37, 9287), (51, 9395), (55, 9446), (57, 9455), (72, 9572), (74, 9587), (75, 9596), (81, 9650), (90, 9713), (104, 9797), (107, 9809), (108, 9812), (110, 9821), (133, 9872), (159, 9986), (185, 10082), (201, 10124), (229, 10223), (239, 10256), (242, 10265), (267, 10349), (307, 10481), (315, 10511), (318, 10520), (351, 10604), (353, 10610), (355, 10619), (363, 10646), (364, 10652), (392, 10751), (404, 10832), (428, 10964), (435, 11003), (437, 11015), (447, 11069), (451, 11084), (455, 11111),

Gene: Horacetta_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Horacetta_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294,

8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Htur_19 Start: 13514, Stop: 15508, Start Num: 8

Candidate Starts for Htur_19:

(Start: 8 @13514 has 5 MA's), (12, 13553), (26, 13664), (31, 13679), (32, 13691), (42, 13805), (52, 13883), (54, 13907), (69, 14039), (77, 14090), (84, 14156), (99, 14252), (119, 14363), (150, 14489), (166, 14549), (172, 14573), (175, 14591), (187, 14624), (233, 14771), (237, 14789), (246, 14822), (251, 14837), (278, 14903), (368, 15062), (370, 15068), (371, 15074), (406, 15152), (410, 15167), (419, 15209), (430, 15275), (441, 15344), (468, 15482),

Gene: Hulk_12 Start: 7553, Stop: 9658, Start Num: 9

Candidate Starts for Hulk_12:

(Start: 9 @7553 has 111 MA's), (11, 7574), (35, 7751), (36, 7760), (37, 7784), (45, 7856), (49, 7880), (50, 7886), (68, 8036), (70, 8057), (72, 8069), (73, 8078), (103, 8285), (107, 8303), (141, 8390), (163, 8459), (168, 8471), (185, 8519), (205, 8549), (209, 8564), (221, 8600), (226, 8627), (232, 8648), (240, 8672), (247, 8696), (249, 8702), (256, 8729), (267, 8762), (276, 8801), (285, 8828), (290, 8849), (294, 8864), (306, 8891), (307, 8894), (314, 8915), (316, 8927), (318, 8933), (343, 8981), (362, 9056), (364, 9065), (370, 9092), (375, 9113), (393, 9176), (405, 9257), (426, 9362), (429, 9383), (432, 9395), (438, 9437), (441, 9458), (447, 9479), (467, 9608),

Gene: IAmGroot_15 Start: 10840, Stop: 13191, Start Num: 7

Candidate Starts for IAmGroot_15:

(Start: 7 @10840 has 54 MA's), (27, 11023), (51, 11239), (57, 11299), (68, 11383), (73, 11425), (81, 11494), (90, 11557), (107, 11653), (108, 11656), (121, 11707), (133, 11758), (153, 11872), (154, 11881), (164, 11920), (216, 12109), (239, 12193), (251, 12232), (256, 12253), (276, 12328), (310, 12430), (313, 12442), (318, 12463), (358, 12577), (363, 12592), (364, 12598), (406, 12799), (435, 12949), (447, 13015),

Gene: Iter_16 Start: 10739, Stop: 13054, Start Num: 7

Candidate Starts for Iter_16:

(Start: 7 @10739 has 54 MA's), (18, 10895), (21, 10913), (25, 10937), (33, 10985), (38, 11045), (43, 11090), (52, 11162), (64, 11246), (66, 11276), (72, 11330), (76, 11360), (83, 11417), (86, 11441), (94, 11501), (95, 11507), (167, 11726), (219, 11894), (232, 11942), (257, 12038), (269, 12077), (274, 12095), (286, 12137), (292, 12161), (304, 12218), (307, 12230), (344, 12341), (361, 12401), (364, 12416), (388, 12527), (403, 12638), (406, 12659), (407, 12662), (413, 12695), (428, 12773), (435, 12812), (452, 12902), (454, 12914), (468, 12998),

Gene: IttyBittyPiggy_16 Start: 10723, Stop: 13035, Start Num: 7

Candidate Starts for IttyBittyPiggy_16:

(Start: 7 @10723 has 54 MA's), (18, 10879), (22, 10903), (33, 10969), (34, 10981), (38, 11029), (52, 11146), (63, 11227), (64, 11230), (66, 11260), (76, 11344), (83, 11401), (86, 11425), (94, 11485), (95, 11491), (209, 11839), (219, 11878), (232, 11926), (246, 11980), (257, 12022), (269, 12061), (286, 12121), (307, 12214), (356, 12370), (359, 12382), (362, 12391), (388, 12511), (406, 12643), (407, 12646), (428, 12757), (435, 12796), (438, 12820), (446, 12856), (449, 12871), (465, 12970),

Gene: JRok_12 Start: 7531, Stop: 9636, Start Num: 9

Candidate Starts for JRok_12:

(Start: 9 @7531 has 111 MA's), (11, 7552), (35, 7729), (36, 7738), (37, 7762), (45, 7834), (49, 7858), (50, 7864), (68, 8014), (70, 8035), (72, 8047), (73, 8056), (103, 8263), (107, 8281), (141, 8368), (163, 8437), (168, 8449), (185, 8497), (205, 8527), (209, 8542), (226, 8605), (232, 8626), (233, 8629), (249, 8680), (256, 8707), (267, 8740), (276, 8779), (285, 8806), (290, 8827), (294, 8842), (306, 8869), (314,

8893), (316, 8905), (318, 8911), (343, 8959), (364, 9043), (370, 9070), (375, 9091), (393, 9154), (396, 9178), (401, 9202), (404, 9223), (426, 9340), (429, 9361), (432, 9373), (438, 9415), (441, 9436), (447, 9457), (467, 9586),

Gene: Jahseh_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Jahseh_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: JaimeB_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for JaimeB_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Janeemi_17 Start: 11821, Stop: 14298, Start Num: 7

Candidate Starts for Janeemi_17:

(Start: 7 @11821 has 54 MA's), (18, 11977), (19, 11986), (52, 12244), (66, 12358), (67, 12367), (72, 12412), (83, 12499), (86, 12523), (94, 12583), (95, 12589), (101, 12613), (118, 12691), (123, 12724), (156, 12859), (167, 12901), (201, 13072), (212, 13111), (219, 13138), (232, 13186), (257, 13282), (269, 13321), (274, 13339), (277, 13351), (286, 13381), (304, 13462), (347, 13597), (361, 13645), (364, 13660), (384, 13753), (388, 13771), (389, 13783), (406, 13903), (407, 13906), (428, 14017), (435, 14056), (449, 14131), (452, 14146),

Gene: Jannah_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Jannah_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466),

Gene: JasmineDragon_15 Start: 8971, Stop: 11214, Start Num: 7

Candidate Starts for JasmineDragon_15:

(Start: 7 @8971 has 54 MA's), (13, 9058), (26, 9160), (35, 9226), (47, 9331), (60, 9442), (62, 9448), (71, 9544), (77, 9586), (96, 9733), (100, 9751), (126, 9868), (134, 9895), (152, 9928), (162, 9964), (173, 10012), (180, 10051), (188, 10090), (198, 10138), (200, 10147), (202, 10156), (205, 10165), (216, 10207), (227, 10243), (231, 10255), (241, 10300), (243, 10306), (250, 10330), (259, 10366), (264, 10384), (272, 10408), (274, 10417), (277, 10429), (284, 10450), (285, 10453), (292, 10483), (363, 10729), (406, 10846), (424, 10942), (426, 10948), (431, 10978),

Gene: Jerky_12 Start: 7627, Stop: 9732, Start Num: 9

Candidate Starts for Jerky_12:

(Start: 9 @7627 has 111 MA's), (11, 7648), (35, 7825), (36, 7834), (37, 7858), (45, 7930), (49, 7954), (50, 7960), (68, 8110), (70, 8131), (72, 8143), (73, 8152), (103, 8359), (107, 8377), (141, 8464), (163, 8533), (168, 8545), (185, 8593), (205, 8623), (209, 8638), (226, 8701), (232, 8722), (240, 8746), (247, 8770), (249, 8776), (256, 8803), (267, 8836), (276, 8875), (285, 8902), (290, 8923), (294, 8938), (306, 8965), (307, 8968), (314, 8989), (316, 9001), (318, 9007), (343, 9055), (351, 9091), (362, 9130), (364, 9139), (370, 9166), (375, 9187), (393, 9250), (396, 9274), (405, 9331), (426, 9436), (429, 9457), (432, 9469), (438, 9511), (441, 9532), (447, 9553), (467, 9682),

Gene: JoBros_12 Start: 7541, Stop: 9646, Start Num: 9

Candidate Starts for JoBros_12:

(Start: 9 @7541 has 111 MA's), (11, 7562), (35, 7739), (36, 7748), (37, 7772), (45, 7844), (49, 7868), (50, 7874), (68, 8024), (70, 8045), (72, 8057), (73, 8066), (103, 8273), (107, 8291), (141, 8378), (163, 8447), (168, 8459), (185, 8507), (205, 8537), (209, 8552), (221, 8588), (226, 8615), (232, 8636), (240, 8660), (247, 8684), (249, 8690), (256, 8717), (267, 8750), (276, 8789), (285, 8816), (290, 8837), (294, 8852), (306, 8879), (307, 8882), (314, 8903), (316, 8915), (318, 8921), (343, 8969), (351, 9005), (364, 9053), (370, 9080), (375, 9101), (393, 9164), (396, 9188), (405, 9245), (426, 9350), (429, 9371), (432, 9383), (438, 9425), (441, 9446), (447, 9467), (467, 9596),

Gene: Joemato_18 Start: 10730, Stop: 13045, Start Num: 7

Candidate Starts for Joemato_18:

(Start: 7 @10730 has 54 MA's), (18, 10886), (19, 10895), (33, 10976), (34, 10988), (38, 11036), (52, 11153), (63, 11234), (64, 11237), (66, 11267), (72, 11321), (76, 11351), (83, 11408), (86, 11432), (94, 11492), (167, 11717), (200, 11813), (219, 11885), (232, 11933), (246, 11987), (257, 12029), (269, 12068), (286, 12128), (364, 12407), (369, 12431), (376, 12464), (377, 12467), (388, 12518), (403, 12629), (406, 12650), (407, 12653), (413, 12686), (428, 12764), (432, 12785), (435, 12803), (446, 12863), (452, 12893), (462, 12944), (468, 12989), (472, 13034),

Gene: JohnDoe_16 Start: 10725, Stop: 13040, Start Num: 7

Candidate Starts for JohnDoe_16:

(Start: 7 @10725 has 54 MA's), (18, 10881), (19, 10890), (33, 10971), (34, 10983), (38, 11031), (52, 11148), (63, 11229), (64, 11232), (66, 11262), (72, 11316), (76, 11346), (83, 11403), (86, 11427), (94, 11487), (167, 11712), (200, 11808), (219, 11880), (232, 11928), (246, 11982), (257, 12024), (269, 12063), (286, 12123), (364, 12402), (369, 12426), (376, 12459), (377, 12462), (388, 12513), (403, 12624), (406, 12645), (407, 12648), (413, 12681), (428, 12759), (435, 12798), (446, 12858), (452, 12888), (462, 12939), (468, 12984), (472, 13029),

Gene: JooneeDee_12 Start: 7572, Stop: 9677, Start Num: 9

Candidate Starts for JooneeDee_12:

(Start: 2 @7476 has 7 MA's), (Start: 9 @7572 has 111 MA's), (11, 7593), (31, 7719), (35, 7770), (36, 7779), (37, 7803), (45, 7875), (49, 7899), (64, 7998), (70, 8076), (72, 8088), (73, 8097), (103, 8304), (107, 8322), (141, 8409), (163, 8478), (168, 8490), (185, 8538), (205, 8568), (209, 8583), (224, 8637), (232, 8667), (233, 8670), (240, 8691), (249, 8721), (256, 8748), (267, 8781), (276, 8820), (285, 8847), (286, 8853), (290, 8868), (294, 8883), (306, 8910), (307, 8913), (314, 8934), (316, 8946), (318, 8952), (343, 9000), (351, 9036), (364, 9084), (370, 9111), (375, 9132), (393, 9195), (396, 9219), (405, 9276), (426, 9381), (429, 9402), (432, 9414), (438, 9456), (441, 9477), (447, 9498),

Gene: Josuke_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Josuke_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294,

8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Jstan_16 Start: 10704, Stop: 13028, Start Num: 7

Candidate Starts for Jstan_16:

(Start: 7 @10704 has 54 MA's), (17, 10857), (18, 10860), (19, 10869), (33, 10950), (38, 11010), (43, 11055), (52, 11127), (63, 11208), (64, 11211), (66, 11241), (72, 11295), (76, 11325), (83, 11382), (86, 11406), (94, 11466), (95, 11472), (101, 11496), (125, 11592), (167, 11691), (200, 11787), (209, 11820), (219, 11859), (232, 11907), (246, 11961), (257, 12003), (269, 12042), (274, 12060), (286, 12102), (307, 12195), (361, 12366), (364, 12381), (388, 12492), (406, 12624), (407, 12627), (413, 12660), (428, 12738), (435, 12777), (446, 12837), (462, 12927),

Gene: JuneStar_16 Start: 10824, Stop: 13148, Start Num: 7

Candidate Starts for JuneStar_16:

(Start: 7 @10824 has 54 MA's), (21, 10998), (25, 11022), (33, 11070), (38, 11130), (50, 11235), (52, 11247), (63, 11328), (64, 11331), (66, 11361), (72, 11415), (76, 11445), (79, 11487), (83, 11502), (86, 11526), (89, 11556), (94, 11586), (95, 11592), (167, 11811), (209, 11940), (219, 11979), (232, 12027), (237, 12048), (246, 12081), (257, 12123), (269, 12162), (286, 12222), (307, 12315), (339, 12384), (388, 12612), (403, 12723), (406, 12744), (407, 12747), (428, 12858), (435, 12897),

Gene: Kaijohn_12 Start: 7545, Stop: 9650, Start Num: 9

Candidate Starts for Kaijohn_12:

(Start: 9 @7545 has 111 MA's), (11, 7566), (35, 7743), (36, 7752), (37, 7776), (45, 7848), (49, 7872), (50, 7878), (64, 7971), (68, 8028), (70, 8049), (72, 8061), (73, 8070), (103, 8277), (107, 8295), (141, 8382), (163, 8451), (168, 8463), (185, 8511), (205, 8541), (209, 8556), (221, 8592), (226, 8619), (232, 8640), (240, 8664), (247, 8688), (249, 8694), (256, 8721), (267, 8754), (276, 8793), (285, 8820), (290, 8841), (294, 8856), (306, 8883), (307, 8886), (314, 8907), (316, 8919), (318, 8925), (343, 8973), (364, 9057), (370, 9084), (375, 9105), (393, 9168), (405, 9249), (426, 9354), (432, 9387), (438, 9429), (441, 9450), (447, 9471), (467, 9600),

Gene: KayPaulus_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for KayPaulus_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Kaylissa_16 Start: 10731, Stop: 13046, Start Num: 7

Candidate Starts for Kaylissa_16:

(Start: 7 @10731 has 54 MA's), (18, 10887), (19, 10896), (33, 10977), (34, 10989), (38, 11037), (52, 11154), (63, 11235), (64, 11238), (66, 11268), (72, 11322), (76, 11352), (83, 11409), (86, 11433), (94, 11493), (167, 11718), (200, 11814), (219, 11886), (232, 11934), (246, 11988), (257, 12030), (269, 12069), (286, 12129), (364, 12408), (369, 12432), (376, 12465), (377, 12468), (388, 12519), (403, 12630), (406, 12651), (407, 12654), (413, 12687), (428, 12765), (432, 12786), (435, 12804), (446, 12864), (452, 12894), (462, 12945), (468, 12990), (472, 13035),

Gene: KeAlii_16 Start: 10771, Stop: 13071, Start Num: 7

Candidate Starts for KeAlii_16:

(Start: 7 @10771 has 54 MA's), (18, 10927), (19, 10936), (33, 11017), (38, 11077), (52, 11194), (56, 11245), (63, 11275), (64, 11278), (66, 11308), (72, 11362), (76, 11392), (78, 11425), (83, 11449), (86, 11473), (89, 11503), (94, 11533), (95, 11539), (101, 11563), (171, 11776), (200, 11857), (212, 11902), (219, 11929), (232, 11977), (257, 12073), (269, 12112), (272, 12121), (289, 12184), (290, 12187), (310, 12274), (319, 12310), (339, 12334), (364, 12451), (367, 12466), (381, 12532), (393, 12607), (408, 12703), (426, 12793), (431, 12823), (440, 12877), (446, 12898), (465, 13006),

Gene: Kevanna_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Kevanna_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: KillerTomato_12 Start: 7586, Stop: 9691, Start Num: 9

Candidate Starts for KillerTomato_12:

(Start: 9 @7586 has 111 MA's), (11, 7607), (35, 7784), (36, 7793), (37, 7817), (45, 7889), (49, 7913), (50, 7919), (64, 8012), (68, 8069), (70, 8090), (72, 8102), (73, 8111), (103, 8318), (107, 8336), (141, 8423), (163, 8492), (168, 8504), (185, 8552), (205, 8582), (209, 8597), (221, 8633), (226, 8660), (233, 8684), (240, 8705), (247, 8729), (249, 8735), (256, 8762), (267, 8795), (276, 8834), (285, 8861), (290, 8882), (294, 8897), (306, 8924), (307, 8927), (314, 8948), (316, 8960), (318, 8966), (343, 9014), (351, 9050), (364, 9098), (370, 9125), (375, 9146), (393, 9209), (396, 9233), (405, 9290), (426, 9395), (429, 9416), (432, 9428), (438, 9470), (441, 9491), (447, 9512), (467, 9641),

Gene: Kojax4_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Kojax4_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: KyriosFaba_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for KyriosFaba_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Laroye_67 Start: 36530, Stop: 39547, Start Num: 2

Candidate Starts for Laroye_67:

(Start: 2 @36530 has 7 MA's), (4, 36551), (6, 36581), (Start: 7 @36584 has 54 MA's), (15, 36689), (25, 36773), (28, 36782), (35, 36842), (58, 37052), (60, 37058), (61, 37061), (62, 37064), (69, 37151), (77, 37202), (80, 37244), (81, 37247), (92, 37331), (96, 37349), (124, 37499), (149, 37592), (151, 37601), (174, 37691), (191, 37787), (195, 37805), (197, 37817), (201, 37835), (202, 37838), (206,

37850), (211, 37871), (215, 37883), (227, 37934), (252, 38027), (277, 38114), (288, 38150), (291, 38162), (293, 38171), (299, 38201), (301, 38216), (304, 38225), (323, 38294), (343, 38333), (373, 38459), (410, 38534), (423, 38609), (427, 38630), (433, 38663), (434, 38666), (439, 38708), (442, 38720), (448, 38741), (458, 38795), (471, 38897), (474, 38960), (478, 39071), (480, 39104), (482, 39158), (483, 39167), (487, 39260), (488, 39269), (490, 39368), (491, 39374), (493, 39404), (494, 39443), (496, 39530),

Gene: LaviMo_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for LaviMo_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Leafy_12 Start: 7556, Stop: 9661, Start Num: 9

Candidate Starts for Leafy_12:

(Start: 9 @7556 has 111 MA's), (11, 7577), (35, 7754), (36, 7763), (37, 7787), (45, 7859), (49, 7883), (50, 7889), (64, 7982), (68, 8039), (70, 8060), (72, 8072), (73, 8081), (103, 8288), (107, 8306), (141, 8393), (163, 8462), (168, 8474), (185, 8522), (205, 8552), (209, 8567), (226, 8630), (233, 8654), (240, 8675), (247, 8699), (249, 8705), (256, 8732), (267, 8765), (276, 8804), (286, 8837), (290, 8852), (294, 8867), (306, 8894), (307, 8897), (316, 8930), (318, 8936), (343, 8984), (364, 9068), (370, 9095), (375, 9116), (393, 9179), (396, 9203), (405, 9260), (426, 9365), (429, 9386), (432, 9398), (438, 9440), (441, 9461), (447, 9482), (467, 9611),

Gene: Lego_16 Start: 10730, Stop: 13045, Start Num: 7

Candidate Starts for Lego_16:

(Start: 7 @10730 has 54 MA's), (18, 10886), (19, 10895), (33, 10976), (34, 10988), (38, 11036), (39, 11039), (43, 11081), (52, 11153), (63, 11234), (64, 11237), (66, 11267), (72, 11321), (76, 11351), (83, 11408), (86, 11432), (94, 11492), (167, 11717), (200, 11813), (216, 11876), (219, 11885), (232, 11933), (234, 11942), (237, 11954), (246, 11987), (257, 12029), (269, 12068), (286, 12128), (320, 12269), (347, 12344), (351, 12356), (362, 12398), (364, 12407), (369, 12431), (388, 12518), (403, 12629), (406, 12650), (407, 12653), (413, 12686), (428, 12764), (435, 12803), (446, 12863), (452, 12893), (462, 12944), (468, 12989), (472, 13034),

Gene: LemonPepper_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for LemonPepper_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: LiSara_64 Start: 36692, Stop: 39709, Start Num: 2

Candidate Starts for LiSara_64:

(Start: 2 @36692 has 7 MA's), (4, 36713), (6, 36743), (Start: 7 @36746 has 54 MA's), (15, 36851), (25, 36935), (28, 36944), (35, 37004), (58, 37214), (60, 37220), (61, 37223), (62, 37226), (69, 37313), (77, 37364), (80, 37406), (81, 37409), (92, 37493), (96, 37511), (124, 37661), (149, 37754), (151, 37763), (174, 37853), (191, 37949), (197, 37979), (201, 37997), (202, 38000), (206, 38012), (211,

38033), (215, 38045), (227, 38096), (252, 38189), (277, 38276), (288, 38312), (291, 38324), (293, 38333), (299, 38363), (301, 38378), (304, 38387), (323, 38456), (343, 38495), (373, 38621), (410, 38696), (423, 38771), (427, 38792), (433, 38825), (434, 38828), (439, 38870), (442, 38882), (448, 38903), (458, 38957), (471, 39059), (474, 39122), (478, 39233), (480, 39266), (482, 39320), (483, 39329), (486, 39398), (487, 39422), (488, 39431), (490, 39530), (491, 39536), (493, 39566), (494, 39605), (496, 39692),

Gene: Liebe_15 Start: 9206, Stop: 11569, Start Num: 7

Candidate Starts for Liebe_15:

(Start: 7 @9206 has 54 MA's), (26, 9395), (35, 9461), (42, 9536), (50, 9602), (60, 9677), (61, 9680), (62, 9683), (69, 9770), (71, 9779), (77, 9821), (96, 9968), (100, 9986), (112, 10061), (119, 10094), (124, 10127), (156, 10268), (182, 10391), (184, 10400), (193, 10439), (196, 10457), (200, 10472), (216, 10532), (218, 10538), (220, 10544), (224, 10556), (225, 10559), (238, 10613), (241, 10625), (245, 10637), (249, 10652), (269, 10724), (274, 10742), (276, 10751), (281, 10766), (285, 10778), (289, 10796), (292, 10808), (356, 11030), (406, 11171), (407, 11174), (413, 11207), (417, 11222), (418, 11228), (424, 11267), (435, 11324), (441, 11366), (452, 11414),

Gene: LionelHutz_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for LionelHutz_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Livingwater_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Livingwater_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Lizalica_16 Start: 10715, Stop: 13030, Start Num: 7

Candidate Starts for Lizalica_16:

(Start: 7 @10715 has 54 MA's), (18, 10871), (19, 10880), (33, 10961), (34, 10973), (38, 11021), (39, 11024), (43, 11066), (52, 11138), (63, 11219), (64, 11222), (66, 11252), (72, 11306), (76, 11336), (83, 11393), (86, 11417), (94, 11477), (167, 11702), (200, 11798), (219, 11870), (232, 11918), (246, 11972), (257, 12014), (269, 12053), (286, 12113), (320, 12254), (362, 12383), (364, 12392), (369, 12416), (384, 12485), (388, 12503), (403, 12614), (406, 12635), (407, 12638), (413, 12671), (428, 12749), (435, 12788), (446, 12848), (452, 12878), (462, 12929), (468, 12974), (472, 13019),

Gene: Loca_12 Start: 7559, Stop: 9664, Start Num: 9

Candidate Starts for Loca_12:

(Start: 9 @7559 has 111 MA's), (11, 7580), (35, 7757), (36, 7766), (37, 7790), (45, 7862), (49, 7886), (50, 7892), (64, 7985), (68, 8042), (70, 8063), (72, 8075), (73, 8084), (103, 8291), (107, 8309), (141, 8396), (163, 8465), (168, 8477), (185, 8525), (205, 8555), (209, 8570), (226, 8633), (240, 8678), (247, 8702), (249, 8708), (256, 8735), (267, 8768), (276, 8807), (290, 8855), (294, 8870), (306, 8897), (307, 8900), (316, 8933), (318, 8939), (343, 8987), (364, 9071), (370, 9098), (375, 9119), (393, 9182), (396,

9206), (405, 9263), (426, 9368), (429, 9389), (432, 9401), (438, 9443), (441, 9464), (447, 9485), (467, 9614),

Gene: Lola20_12 Start: 7538, Stop: 9646, Start Num: 9

Candidate Starts for Lola20_12:

(Start: 9 @7538 has 111 MA's), (11, 7559), (35, 7736), (36, 7745), (37, 7769), (45, 7841), (49, 7865), (50, 7871), (64, 7964), (68, 8021), (70, 8042), (72, 8054), (73, 8063), (103, 8270), (107, 8288), (141, 8375), (163, 8444), (168, 8456), (185, 8504), (205, 8534), (209, 8549), (221, 8585), (226, 8612), (240, 8657), (247, 8681), (249, 8687), (256, 8714), (267, 8747), (276, 8786), (285, 8813), (290, 8834), (294, 8849), (306, 8876), (307, 8879), (316, 8912), (318, 8918), (343, 8966), (351, 9002), (364, 9050), (370, 9077), (375, 9098), (393, 9161), (396, 9185), (405, 9242), (426, 9347), (429, 9368), (432, 9380), (438, 9422), (447, 9464), (467, 9596),

Gene: London_16 Start: 10704, Stop: 13028, Start Num: 7

Candidate Starts for London_16:

(Start: 7 @10704 has 54 MA's), (17, 10857), (18, 10860), (19, 10869), (33, 10950), (38, 11010), (43, 11055), (52, 11127), (63, 11208), (64, 11211), (66, 11241), (72, 11295), (76, 11325), (83, 11382), (86, 11406), (94, 11466), (95, 11472), (101, 11496), (125, 11592), (167, 11691), (200, 11787), (209, 11820), (219, 11859), (232, 11907), (246, 11961), (257, 12003), (269, 12042), (274, 12060), (286, 12102), (307, 12195), (361, 12366), (364, 12381), (388, 12492), (406, 12624), (407, 12627), (413, 12660), (428, 12738), (435, 12777), (446, 12837), (462, 12927),

Gene: Lunatic_12 Start: 7531, Stop: 9636, Start Num: 9

Candidate Starts for Lunatic_12:

(Start: 9 @7531 has 111 MA's), (11, 7552), (35, 7729), (36, 7738), (37, 7762), (45, 7834), (49, 7858), (64, 7957), (68, 8014), (70, 8035), (72, 8047), (73, 8056), (103, 8263), (107, 8281), (141, 8368), (163, 8437), (168, 8449), (185, 8497), (205, 8527), (209, 8542), (232, 8626), (233, 8629), (240, 8650), (249, 8680), (256, 8707), (267, 8740), (276, 8779), (285, 8806), (286, 8812), (290, 8827), (294, 8842), (307, 8872), (314, 8893), (316, 8905), (318, 8911), (343, 8959), (351, 8995), (364, 9043), (370, 9070), (375, 9091), (393, 9154), (396, 9178), (405, 9235), (426, 9340), (429, 9361), (438, 9415), (441, 9436), (447, 9457),

Gene: Luxx_12 Start: 7564, Stop: 9669, Start Num: 9

Candidate Starts for Luxx_12:

(Start: 9 @7564 has 111 MA's), (11, 7585), (35, 7762), (36, 7771), (37, 7795), (45, 7867), (49, 7891), (50, 7897), (68, 8047), (70, 8068), (72, 8080), (73, 8089), (103, 8296), (107, 8314), (141, 8401), (163, 8470), (168, 8482), (185, 8530), (205, 8560), (209, 8575), (221, 8611), (226, 8638), (232, 8659), (240, 8683), (247, 8707), (249, 8713), (256, 8740), (267, 8773), (276, 8812), (285, 8839), (290, 8860), (294, 8875), (306, 8902), (307, 8905), (314, 8926), (316, 8938), (318, 8944), (343, 8992), (362, 9067), (364, 9076), (370, 9103), (375, 9124), (393, 9187), (396, 9211), (405, 9268), (426, 9373), (429, 9394), (432, 9406), (438, 9448), (441, 9469), (447, 9490),

Gene: MaGuCo_15 Start: 9140, Stop: 11503, Start Num: 7

Candidate Starts for MaGuCo_15:

(Start: 7 @9140 has 54 MA's), (26, 9329), (35, 9395), (42, 9470), (60, 9611), (61, 9614), (62, 9617), (69, 9704), (71, 9713), (77, 9755), (81, 9800), (96, 9902), (100, 9920), (119, 10028), (124, 10061), (156, 10202), (179, 10304), (182, 10325), (184, 10334), (193, 10373), (196, 10391), (199, 10403), (200, 10406), (216, 10466), (218, 10472), (220, 10478), (224, 10490), (225, 10493), (231, 10514), (238, 10547), (241, 10559), (245, 10571), (249, 10586), (269, 10658), (273, 10670), (274, 10676), (276, 10685), (281, 10700), (285, 10712), (289, 10730), (292, 10742), (356, 10964), (406, 11105), (407, 11108), (413, 11141), (418, 11162), (424, 11201), (435, 11258), (441, 11300), (452, 11348),

Gene: Majesty_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Majesty_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: ManAs_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for ManAs_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Maneater_12 Start: 7528, Stop: 9633, Start Num: 9

Candidate Starts for Maneater_12:

(Start: 9 @7528 has 111 MA's), (11, 7549), (35, 7726), (36, 7735), (37, 7759), (45, 7831), (49, 7855), (50, 7861), (68, 8011), (70, 8032), (72, 8044), (73, 8053), (103, 8260), (107, 8278), (141, 8365), (163, 8434), (168, 8446), (185, 8494), (205, 8524), (209, 8539), (221, 8575), (226, 8602), (232, 8623), (240, 8647), (247, 8671), (249, 8677), (256, 8704), (267, 8737), (276, 8776), (285, 8803), (290, 8824), (294, 8839), (306, 8866), (307, 8869), (314, 8890), (316, 8902), (318, 8908), (343, 8956), (362, 9031), (364, 9040), (370, 9067), (375, 9088), (393, 9151), (396, 9175), (405, 9232), (426, 9337), (429, 9358), (432, 9370), (438, 9412), (441, 9433), (447, 9454),

Gene: MasterPitts_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for MasterPitts_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472), (467, 9601),

Gene: Maureen_15 Start: 9206, Stop: 11569, Start Num: 7

Candidate Starts for Maureen_15:

(Start: 7 @9206 has 54 MA's), (26, 9395), (35, 9461), (42, 9536), (50, 9602), (60, 9677), (61, 9680), (62, 9683), (69, 9770), (71, 9779), (77, 9821), (96, 9968), (100, 9986), (112, 10061), (119, 10094), (124, 10127), (156, 10268), (182, 10391), (184, 10400), (193, 10439), (196, 10457), (200, 10472), (216, 10532), (218, 10538), (220, 10544), (224, 10556), (225, 10559), (238, 10613), (241, 10625), (245, 10637), (249, 10652), (269, 10724), (274, 10742), (276, 10751), (281, 10766), (285, 10778), (289, 10796), (292, 10808), (356, 11030), (406, 11171), (407, 11174), (413, 11207), (417, 11222), (418, 11228), (424, 11267), (435, 11324), (441, 11366), (452, 11414),

Gene: McShie_12 Start: 7529, Stop: 9634, Start Num: 9

Candidate Starts for McShie_12:

(Start: 9 @7529 has 111 MA's), (11, 7550), (35, 7727), (36, 7736), (37, 7760), (45, 7832), (49, 7856), (50, 7862), (64, 7955), (68, 8012), (70, 8033), (72, 8045), (73, 8054), (103, 8261), (107, 8279), (141,

8366), (163, 8435), (168, 8447), (185, 8495), (205, 8525), (209, 8540), (226, 8603), (232, 8624), (233, 8627), (249, 8678), (256, 8705), (267, 8738), (276, 8777), (285, 8804), (290, 8825), (294, 8840), (306, 8867), (314, 8891), (316, 8903), (318, 8909), (343, 8957), (364, 9041), (370, 9068), (375, 9089), (393, 9152), (396, 9176), (405, 9233), (426, 9338), (429, 9359), (432, 9371), (438, 9413), (441, 9434), (447, 9455), (467, 9584),

Gene: MelBee03_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for MelBee03_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Miaurora_12 Start: 7648, Stop: 9753, Start Num: 9

Candidate Starts for Miaurora_12:

(Start: 9 @7648 has 111 MA's), (11, 7669), (35, 7846), (36, 7855), (37, 7879), (45, 7951), (49, 7975), (64, 8074), (68, 8131), (70, 8152), (72, 8164), (73, 8173), (103, 8380), (107, 8398), (141, 8485), (163, 8554), (168, 8566), (185, 8614), (205, 8644), (209, 8659), (224, 8713), (232, 8743), (233, 8746), (240, 8767), (249, 8797), (256, 8824), (267, 8857), (276, 8896), (285, 8923), (286, 8929), (290, 8944), (294, 8959), (306, 8986), (307, 8989), (314, 9010), (316, 9022), (318, 9028), (343, 9076), (351, 9112), (364, 9160), (370, 9187), (375, 9208), (393, 9271), (396, 9295), (405, 9352), (426, 9457), (429, 9478), (438, 9532), (441, 9553), (447, 9574),

Gene: Milani_20 Start: 12168, Stop: 14459, Start Num: 8

Candidate Starts for Milani_20:

(Start: 8 @12168 has 5 MA's), (19, 12285), (26, 12318), (32, 12345), (52, 12537), (69, 12693), (77, 12744), (82, 12795), (85, 12816), (92, 12873), (102, 12930), (119, 13017), (122, 13044), (128, 13065), (130, 13095), (131, 13098), (168, 13212), (195, 13356), (223, 13464), (234, 13518), (264, 13629), (287, 13707), (292, 13728), (295, 13740), (299, 13761), (310, 13806), (341, 13872), (353, 13938), (363, 13974), (364, 13980), (370, 14007), (400, 14046), (406, 14091), (407, 14094), (409, 14103), (411, 14115), (412, 14124), (413, 14127), (435, 14241), (443, 14292), (445, 14298),

Gene: MiniMommy_15 Start: 8972, Stop: 11215, Start Num: 7

Candidate Starts for MiniMommy_15:

(Start: 7 @8972 has 54 MA's), (13, 9059), (26, 9161), (35, 9227), (47, 9332), (60, 9443), (62, 9449), (71, 9545), (77, 9587), (96, 9734), (100, 9752), (126, 9869), (134, 9896), (152, 9929), (162, 9965), (173, 10013), (180, 10052), (188, 10091), (193, 10115), (198, 10139), (200, 10148), (202, 10157), (205, 10166), (216, 10208), (227, 10244), (231, 10256), (241, 10301), (243, 10307), (250, 10331), (259, 10367), (264, 10385), (272, 10409), (274, 10418), (277, 10430), (284, 10451), (285, 10454), (292, 10484), (363, 10730), (406, 10847), (424, 10943), (426, 10949), (431, 10979),

Gene: Minima_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Minima_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: MirimarMandM_12 Start: 7615, Stop: 9720, Start Num: 9

Candidate Starts for MirimarMandM_12:

(Start: 9 @7615 has 111 MA's), (11, 7636), (35, 7813), (36, 7822), (37, 7846), (45, 7918), (49, 7942), (64, 8041), (68, 8098), (70, 8119), (72, 8131), (73, 8140), (103, 8347), (107, 8365), (141, 8452), (163, 8521), (168, 8533), (185, 8581), (205, 8611), (209, 8626), (224, 8680), (232, 8710), (233, 8713), (240, 8734), (249, 8764), (256, 8791), (267, 8824), (276, 8863), (285, 8890), (286, 8896), (290, 8911), (294, 8926), (307, 8956), (314, 8977), (316, 8989), (318, 8995), (343, 9043), (351, 9079), (364, 9127), (370, 9154), (375, 9175), (393, 9238), (396, 9262), (405, 9319), (426, 9424), (429, 9445), (432, 9457), (438, 9499), (441, 9520), (447, 9541),

Gene: MissSwiss_16 Start: 10713, Stop: 12947, Start Num: 7

Candidate Starts for MissSwiss_16:

(Start: 7 @10713 has 54 MA's), (18, 10869), (19, 10878), (24, 10905), (33, 10959), (34, 10971), (38, 11019), (52, 11136), (63, 11217), (64, 11220), (66, 11250), (76, 11334), (83, 11391), (86, 11415), (94, 11475), (106, 11544), (111, 11562), (139, 11613), (157, 11634), (165, 11655), (193, 11700), (216, 11796), (219, 11805), (232, 11853), (234, 11862), (257, 11949), (290, 12063), (310, 12150), (322, 12195), (339, 12210), (365, 12330), (367, 12342), (381, 12408), (389, 12450), (391, 12462), (394, 12486), (396, 12507), (398, 12516), (402, 12537), (408, 12579), (426, 12669), (431, 12699), (440, 12753), (465, 12882),

Gene: Moss_18 Start: 10335, Stop: 12755, Start Num: 7

Candidate Starts for Moss_18:

(Start: 7 @10335 has 54 MA's), (13, 10422), (27, 10527), (31, 10539), (36, 10599), (48, 10710), (57, 10791), (73, 10917), (75, 10932), (81, 10986), (108, 11160), (129, 11244), (133, 11265), (138, 11307), (163, 11433), (170, 11454), (177, 11487), (187, 11544), (194, 11586), (197, 11601), (210, 11652), (220, 11688), (222, 11694), (246, 11796), (253, 11817), (263, 11859), (281, 11919), (283, 11925), (295, 11973), (340, 12069), (383, 12246), (387, 12258), (397, 12309), (411, 12390), (424, 12459), (431, 12495), (446, 12576), (449, 12591), (462, 12663), (464, 12687),

Gene: MrGreen_12 Start: 7553, Stop: 9658, Start Num: 9

Candidate Starts for MrGreen_12:

(Start: 9 @7553 has 111 MA's), (11, 7574), (35, 7751), (36, 7760), (37, 7784), (45, 7856), (49, 7880), (50, 7886), (64, 7979), (68, 8036), (70, 8057), (72, 8069), (73, 8078), (103, 8285), (107, 8303), (141, 8390), (163, 8459), (168, 8471), (185, 8519), (205, 8549), (209, 8564), (226, 8627), (233, 8651), (240, 8672), (247, 8696), (249, 8702), (256, 8729), (267, 8762), (276, 8801), (286, 8834), (290, 8849), (294, 8864), (306, 8891), (316, 8927), (318, 8933), (343, 8981), (364, 9065), (370, 9092), (375, 9113), (393, 9176), (396, 9200), (405, 9257), (426, 9362), (429, 9383), (432, 9395), (438, 9437), (441, 9458), (447, 9479), (467, 9608),

Gene: Mudpuppy_17 Start: 10729, Stop: 13044, Start Num: 7

Candidate Starts for Mudpuppy_17:

(Start: 7 @10729 has 54 MA's), (18, 10885), (19, 10894), (33, 10975), (34, 10987), (38, 11035), (39, 11038), (43, 11080), (52, 11152), (63, 11233), (64, 11236), (66, 11266), (72, 11320), (76, 11350), (83, 11407), (86, 11431), (94, 11491), (167, 11716), (200, 11812), (216, 11875), (219, 11884), (232, 11932), (237, 11953), (246, 11986), (257, 12028), (269, 12067), (286, 12127), (320, 12268), (362, 12397), (364, 12406), (369, 12430), (376, 12463), (384, 12499), (388, 12517), (403, 12628), (406, 12649), (407, 12652), (413, 12685), (428, 12763), (435, 12802), (446, 12862), (452, 12892), (462, 12943), (468, 12988), (472, 13033),

Gene: Naby_12 Start: 7240, Stop: 9339, Start Num: 9

Candidate Starts for Naby_12:

(Start: 9 @7240 has 111 MA's), (10, 7255), (11, 7261), (17, 7321), (27, 7375), (35, 7438), (36, 7447), (37, 7471), (45, 7543), (49, 7567), (64, 7666), (68, 7723), (72, 7756), (73, 7765), (120, 8032), (141, 8077), (166, 8149), (179, 8179), (205, 8236), (209, 8251), (228, 8320), (242, 8365), (247, 8383), (249, 8389), (267, 8449), (268, 8455), (272, 8470), (276, 8488), (285, 8515), (300, 8557), (314, 8602), (318, 8620), (341, 8647), (359, 8734), (364, 8752), (370, 8779), (378, 8821), (393, 8863), (394, 8866), (396, 8887), (416, 8998), (429, 9070), (432, 9082), (437, 9112), (438, 9124), (441, 9145), (448, 9169), (463, 9253), (467, 9289),

Gene: Namsahir_12 Start: 7603, Stop: 9708, Start Num: 9

Candidate Starts for Namsahir_12:

(Start: 9 @7603 has 111 MA's), (11, 7624), (35, 7801), (36, 7810), (37, 7834), (45, 7906), (49, 7930), (64, 8029), (70, 8107), (72, 8119), (73, 8128), (103, 8335), (107, 8353), (141, 8440), (163, 8509), (168, 8521), (185, 8569), (205, 8599), (209, 8614), (224, 8668), (232, 8698), (233, 8701), (240, 8722), (249, 8752), (256, 8779), (267, 8812), (276, 8851), (285, 8878), (286, 8884), (290, 8899), (294, 8914), (306, 8941), (307, 8944), (314, 8965), (316, 8977), (318, 8983), (343, 9031), (351, 9067), (364, 9115), (370, 9142), (375, 9163), (393, 9226), (396, 9250), (405, 9307), (426, 9412), (429, 9433), (438, 9487), (441, 9508), (447, 9529),

Gene: NeumannU_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for NeumannU_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Niffler_12 Start: 7621, Stop: 9726, Start Num: 9

Candidate Starts for Niffler_12:

(Start: 9 @7621 has 111 MA's), (11, 7642), (35, 7819), (36, 7828), (37, 7852), (45, 7924), (49, 7948), (64, 8047), (68, 8104), (70, 8125), (72, 8137), (73, 8146), (103, 8353), (107, 8371), (141, 8458), (163, 8527), (168, 8539), (185, 8587), (205, 8617), (209, 8632), (232, 8716), (233, 8719), (240, 8740), (249, 8770), (256, 8797), (267, 8830), (276, 8869), (285, 8896), (286, 8902), (290, 8917), (294, 8932), (307, 8962), (314, 8983), (316, 8995), (318, 9001), (343, 9049), (351, 9085), (364, 9133), (370, 9160), (375, 9181), (393, 9244), (396, 9268), (405, 9325), (426, 9430), (429, 9451), (438, 9505), (441, 9526), (447, 9547),

Gene: Niobe_16 Start: 10704, Stop: 13028, Start Num: 7

Candidate Starts for Niobe_16:

(Start: 7 @10704 has 54 MA's), (17, 10857), (18, 10860), (19, 10869), (33, 10950), (38, 11010), (43, 11055), (52, 11127), (63, 11208), (64, 11211), (66, 11241), (72, 11295), (76, 11325), (83, 11382), (86, 11406), (94, 11466), (95, 11472), (101, 11496), (125, 11592), (167, 11691), (200, 11787), (209, 11820), (219, 11859), (232, 11907), (246, 11961), (257, 12003), (269, 12042), (274, 12060), (286, 12102), (307, 12195), (361, 12366), (364, 12381), (388, 12492), (406, 12624), (407, 12627), (413, 12660), (428, 12738), (435, 12777), (446, 12837), (462, 12927),

Gene: Nitro_16 Start: 10728, Stop: 13052, Start Num: 7

Candidate Starts for Nitro_16:

(Start: 7 @10728 has 54 MA's), (16, 10875), (18, 10884), (25, 10926), (33, 10974), (38, 11034), (43, 11079), (52, 11151), (58, 11211), (64, 11235), (66, 11265), (72, 11319), (76, 11349), (83, 11406), (86, 11430), (94, 11490), (95, 11496), (117, 11595), (166, 11712), (200, 11811), (219, 11883), (232, 11931), (257, 12027), (269, 12066), (274, 12084), (286, 12126), (290, 12141), (307, 12219), (361,

12390), (364, 12405), (376, 12462), (384, 12498), (388, 12516), (406, 12648), (407, 12651), (413, 12684), (428, 12762), (435, 12801), (446, 12861), (462, 12951), (468, 12996), (472, 13041),

Gene: Nobel_12 Start: 7648, Stop: 9753, Start Num: 9

Candidate Starts for Nobel_12:

(Start: 9 @7648 has 111 MA's), (11, 7669), (35, 7846), (36, 7855), (37, 7879), (45, 7951), (49, 7975), (64, 8074), (68, 8131), (70, 8152), (72, 8164), (73, 8173), (103, 8380), (107, 8398), (141, 8485), (163, 8554), (168, 8566), (185, 8614), (205, 8644), (209, 8659), (232, 8743), (233, 8746), (240, 8767), (249, 8797), (256, 8824), (267, 8857), (276, 8896), (285, 8923), (286, 8929), (290, 8944), (294, 8959), (307, 8989), (314, 9010), (316, 9022), (318, 9028), (343, 9076), (351, 9112), (364, 9160), (370, 9187), (375, 9208), (393, 9271), (396, 9295), (405, 9352), (426, 9457), (429, 9478), (438, 9532), (441, 9553), (447, 9574),

Gene: Noelani_12 Start: 7514, Stop: 9619, Start Num: 9

Candidate Starts for Noelani_12:

(Start: 9 @7514 has 111 MA's), (11, 7535), (34, 7703), (35, 7712), (37, 7745), (45, 7817), (49, 7841), (68, 7997), (70, 8018), (73, 8039), (103, 8246), (107, 8264), (141, 8351), (163, 8420), (185, 8480), (205, 8510), (209, 8525), (221, 8561), (226, 8588), (232, 8609), (240, 8633), (247, 8657), (249, 8663), (256, 8690), (276, 8762), (285, 8789), (290, 8810), (294, 8825), (306, 8852), (307, 8855), (314, 8876), (316, 8888), (318, 8894), (343, 8942), (362, 9017), (364, 9026), (370, 9053), (375, 9074), (393, 9137), (396, 9161), (401, 9185), (405, 9218), (416, 9272), (429, 9344), (432, 9356), (438, 9398), (441, 9419), (447, 9440), (461, 9518), (467, 9569),

Gene: Oaklynn_12 Start: 7555, Stop: 9639, Start Num: 11

Candidate Starts for Oaklynn_12:

(Start: 9 @7534 has 111 MA's), (11, 7555), (35, 7732), (36, 7741), (37, 7765), (45, 7837), (49, 7861), (50, 7867), (68, 8017), (70, 8038), (72, 8050), (73, 8059), (103, 8266), (107, 8284), (141, 8371), (163, 8440), (168, 8452), (185, 8500), (205, 8530), (209, 8545), (226, 8608), (232, 8629), (233, 8632), (249, 8683), (256, 8710), (267, 8743), (276, 8782), (285, 8809), (290, 8830), (294, 8845), (306, 8872), (314, 8896), (316, 8908), (318, 8914), (343, 8962), (364, 9046), (370, 9073), (375, 9094), (393, 9157), (396, 9181), (401, 9205), (404, 9226), (426, 9343), (429, 9364), (432, 9376), (438, 9418), (441, 9439), (447, 9460), (467, 9589),

Gene: ObiToo_16 Start: 10917, Stop: 13223, Start Num: 7

Candidate Starts for ObiToo_16:

(Start: 7 @10917 has 54 MA's), (17, 11070), (18, 11073), (19, 11082), (38, 11223), (52, 11340), (64, 11424), (66, 11454), (72, 11508), (83, 11595), (86, 11619), (94, 11679), (95, 11685), (105, 11751), (166, 11901), (167, 11904), (216, 12063), (219, 12072), (232, 12120), (246, 12174), (257, 12216), (269, 12255), (286, 12315), (290, 12330), (307, 12408), (320, 12456), (347, 12531), (351, 12543), (362, 12585), (364, 12594), (388, 12705), (406, 12837), (407, 12840), (428, 12951), (435, 12990), (444, 13044), (449, 13065), (452, 13080), (465, 13158),

Gene: Octopus_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Octopus_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Otwor_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Otwor_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Owens_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Owens_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: PaoPu_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for PaoPu_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Phives_17 Start: 11806, Stop: 14130, Start Num: 7

Candidate Starts for Phives_17:

(Start: 7 @11806 has 54 MA's), (18, 11962), (19, 11971), (33, 12052), (38, 12112), (43, 12157), (52, 12229), (58, 12289), (63, 12310), (64, 12313), (66, 12343), (72, 12397), (76, 12427), (83, 12484), (86, 12508), (94, 12568), (95, 12574), (167, 12793), (209, 12922), (216, 12952), (219, 12961), (232, 13009), (237, 13030), (246, 13063), (257, 13105), (269, 13144), (286, 13204), (290, 13219), (307, 13297), (330, 13354), (356, 13453), (359, 13465), (362, 13474), (369, 13507), (376, 13540), (377, 13543), (388, 13594), (406, 13726), (407, 13729), (428, 13840), (435, 13879), (446, 13939), (456, 13990), (462, 14029),

Gene: Picnic_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Picnic_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Pixelle_16 Start: 10749, Stop: 13073, Start Num: 7

Candidate Starts for Pixelle_16:

(Start: 7 @10749 has 54 MA's), (18, 10905), (19, 10914), (33, 10995), (38, 11055), (43, 11100), (52, 11172), (63, 11253), (64, 11256), (66, 11286), (72, 11340), (76, 11370), (83, 11427), (86, 11451), (93,

11505), (94, 11511), (95, 11517), (167, 11736), (219, 11904), (232, 11952), (237, 11973), (246, 12006), (257, 12048), (269, 12087), (286, 12147), (290, 12162), (304, 12228), (344, 12351), (362, 12417), (364, 12426), (376, 12483), (377, 12486), (388, 12537), (406, 12669), (407, 12672), (428, 12783), (435, 12822), (438, 12846), (462, 12972),

Gene: PoRanda_12 Start: 7615, Stop: 9720, Start Num: 9

Candidate Starts for PoRanda_12:

(Start: 9 @7615 has 111 MA's), (11, 7636), (35, 7813), (36, 7822), (37, 7846), (45, 7918), (49, 7942), (64, 8041), (68, 8098), (70, 8119), (72, 8131), (73, 8140), (103, 8347), (107, 8365), (141, 8452), (163, 8521), (168, 8533), (185, 8581), (205, 8611), (209, 8626), (224, 8680), (232, 8710), (233, 8713), (240, 8734), (249, 8764), (256, 8791), (267, 8824), (276, 8863), (285, 8890), (286, 8896), (290, 8911), (294, 8926), (307, 8956), (314, 8977), (316, 8989), (318, 8995), (343, 9043), (351, 9079), (364, 9127), (370, 9154), (375, 9175), (393, 9238), (396, 9262), (405, 9319), (426, 9424), (429, 9445), (432, 9457), (438, 9499), (441, 9520), (447, 9541),

Gene: Pondwater_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Pondwater_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Powerpuff_16 Start: 10781, Stop: 13096, Start Num: 7

Candidate Starts for Powerpuff_16:

(Start: 7 @10781 has 54 MA's), (18, 10937), (19, 10946), (33, 11027), (34, 11039), (38, 11087), (39, 11090), (43, 11132), (52, 11204), (63, 11285), (64, 11288), (66, 11318), (72, 11372), (76, 11402), (83, 11459), (86, 11483), (94, 11543), (167, 11768), (200, 11864), (216, 11927), (219, 11936), (232, 11984), (234, 11993), (237, 12005), (246, 12038), (257, 12080), (269, 12119), (286, 12179), (320, 12320), (347, 12395), (351, 12407), (362, 12449), (364, 12458), (369, 12482), (384, 12551), (388, 12569), (403, 12680), (406, 12701), (407, 12704), (413, 12737), (428, 12815), (435, 12854), (446, 12914), (452, 12944), (462, 12995), (468, 13040), (472, 13085),

Gene: Publix_12 Start: 7603, Stop: 9708, Start Num: 9

Candidate Starts for Publix_12:

(Start: 9 @7603 has 111 MA's), (11, 7624), (35, 7801), (36, 7810), (37, 7834), (45, 7906), (49, 7930), (64, 8029), (70, 8107), (72, 8119), (73, 8128), (103, 8335), (107, 8353), (141, 8440), (163, 8509), (168, 8521), (185, 8569), (205, 8599), (209, 8614), (224, 8668), (232, 8698), (233, 8701), (240, 8722), (249, 8752), (256, 8779), (267, 8812), (276, 8851), (285, 8878), (286, 8884), (290, 8899), (294, 8914), (306, 8941), (307, 8944), (314, 8965), (316, 8977), (318, 8983), (343, 9031), (351, 9067), (364, 9115), (370, 9142), (375, 9163), (393, 9226), (396, 9250), (405, 9307), (426, 9412), (429, 9433), (438, 9487), (441, 9508), (447, 9529),

Gene: Puddles3_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Puddles3_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432,

9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: PuffyCat_12 Start: 7573, Stop: 9678, Start Num: 9

Candidate Starts for PuffyCat_12:

(Start: 9 @7573 has 111 MA's), (11, 7594), (35, 7771), (36, 7780), (37, 7804), (45, 7876), (49, 7900), (64, 7999), (68, 8056), (70, 8077), (72, 8089), (73, 8098), (103, 8305), (107, 8323), (141, 8410), (163, 8479), (168, 8491), (185, 8539), (205, 8569), (209, 8584), (232, 8668), (233, 8671), (240, 8692), (249, 8722), (256, 8749), (267, 8782), (276, 8821), (285, 8848), (286, 8854), (290, 8869), (294, 8884), (307, 8914), (314, 8935), (316, 8947), (318, 8953), (343, 9001), (351, 9037), (364, 9085), (370, 9112), (375, 9133), (393, 9196), (396, 9220), (405, 9277), (426, 9382), (429, 9403), (438, 9457), (441, 9478), (447, 9499),

Gene: Pumpkins_16 Start: 10836, Stop: 13160, Start Num: 7

Candidate Starts for Pumpkins_16:

(Start: 7 @10836 has 54 MA's), (18, 10992), (19, 11001), (20, 11004), (21, 11010), (33, 11082), (38, 11142), (52, 11259), (63, 11340), (64, 11343), (66, 11373), (76, 11457), (83, 11514), (86, 11538), (94, 11598), (95, 11604), (167, 11823), (219, 11991), (232, 12039), (246, 12093), (257, 12135), (269, 12174), (307, 12327), (355, 12480), (358, 12492), (376, 12570), (377, 12573), (388, 12624), (406, 12756), (407, 12759), (413, 12792), (428, 12870), (435, 12909),

Gene: Quaker_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Quaker_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Rasovi_19 Start: 13514, Stop: 15508, Start Num: 8

Candidate Starts for Rasovi_19:

(Start: 8 @13514 has 5 MA's), (12, 13553), (26, 13664), (31, 13679), (32, 13691), (42, 13805), (52, 13883), (54, 13907), (69, 14039), (77, 14090), (84, 14156), (99, 14252), (119, 14363), (150, 14489), (166, 14549), (172, 14573), (175, 14591), (187, 14624), (233, 14771), (237, 14789), (246, 14822), (251, 14837), (278, 14903), (368, 15062), (370, 15068), (371, 15074), (406, 15152), (410, 15167), (419, 15209), (430, 15275), (441, 15344), (468, 15482),

Gene: Reedo_16 Start: 10781, Stop: 13090, Start Num: 7

Candidate Starts for Reedo_16:

(Start: 7 @10781 has 54 MA's), (18, 10937), (19, 10946), (25, 10979), (33, 11027), (38, 11087), (52, 11204), (63, 11285), (64, 11288), (66, 11318), (72, 11372), (76, 11402), (83, 11459), (86, 11483), (89, 11513), (94, 11543), (95, 11549), (101, 11573), (110, 11636), (125, 11669), (162, 11747), (200, 11864), (254, 12062), (257, 12080), (269, 12119), (275, 12140), (286, 12179), (290, 12194), (298, 12233), (308, 12275), (339, 12341), (367, 12473), (378, 12527), (381, 12539), (393, 12614), (395, 12626), (408, 12710), (416, 12746), (426, 12800), (431, 12830), (453, 12944), (465, 13022),

Gene: Rhogar_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Rhogar_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294,

8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Rhysand_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Rhysand_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: RoscoWindex_12 Start: 7553, Stop: 9658, Start Num: 9

Candidate Starts for RoscoWindex_12:

(Start: 9 @7553 has 111 MA's), (11, 7574), (35, 7751), (36, 7760), (37, 7784), (45, 7856), (49, 7880), (50, 7886), (68, 8036), (70, 8057), (72, 8069), (73, 8078), (103, 8285), (107, 8303), (141, 8390), (163, 8459), (168, 8471), (185, 8519), (205, 8549), (209, 8564), (221, 8600), (226, 8627), (232, 8648), (240, 8672), (247, 8696), (249, 8702), (256, 8729), (267, 8762), (276, 8801), (285, 8828), (290, 8849), (294, 8864), (306, 8891), (307, 8894), (314, 8915), (316, 8927), (318, 8933), (343, 8981), (362, 9056), (364, 9065), (370, 9092), (375, 9113), (393, 9176), (396, 9200), (405, 9257), (426, 9362), (429, 9383), (432, 9395), (438, 9437), (441, 9458), (447, 9479),

Gene: Sage7_13 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Sage7_13:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Salgado_67 Start: 36346, Stop: 39363, Start Num: 2

Candidate Starts for Salgado_67:

(Start: 2 @36346 has 7 MA's), (4, 36367), (6, 36397), (Start: 7 @36400 has 54 MA's), (15, 36505), (25, 36589), (28, 36598), (35, 36658), (58, 36868), (60, 36874), (61, 36877), (62, 36880), (69, 36967), (77, 37018), (80, 37060), (81, 37063), (92, 37147), (96, 37165), (124, 37315), (129, 37354), (149, 37408), (151, 37417), (174, 37507), (191, 37603), (197, 37633), (201, 37651), (202, 37654), (206, 37666), (211, 37687), (215, 37699), (227, 37750), (252, 37843), (277, 37930), (288, 37966), (291, 37978), (293, 37987), (299, 38017), (301, 38032), (304, 38041), (323, 38110), (343, 38149), (373, 38275), (410, 38350), (423, 38425), (427, 38446), (433, 38479), (434, 38482), (439, 38524), (442, 38536), (448, 38557), (458, 38611), (471, 38713), (474, 38776), (478, 38887), (480, 38920), (482, 38974), (483, 38983), (487, 39076), (488, 39085), (490, 39184), (491, 39190), (493, 39220), (494, 39259), (496, 39346),

Gene: SantasSleigh_12 Start: 7576, Stop: 9681, Start Num: 9

Candidate Starts for SantasSleigh_12:

(Start: 9 @7576 has 111 MA's), (11, 7597), (35, 7774), (36, 7783), (37, 7807), (45, 7879), (49, 7903), (50, 7909), (68, 8059), (70, 8080), (72, 8092), (73, 8101), (103, 8308), (107, 8326), (141, 8413), (163, 8482), (168, 8494), (185, 8542), (205, 8572), (209, 8587), (221, 8623), (226, 8650), (232, 8671), (240, 8695), (247, 8719), (249, 8725), (256, 8752), (267, 8785), (276, 8824), (285, 8851), (290, 8872), (294,

8887), (306, 8914), (307, 8917), (314, 8938), (316, 8950), (318, 8956), (343, 9004), (362, 9079), (364, 9088), (370, 9115), (375, 9136), (393, 9199), (396, 9223), (405, 9280), (426, 9385), (429, 9406), (432, 9418), (438, 9460), (441, 9481), (447, 9502),

Gene: Sara_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for Sara_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: Scamander_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Scamander_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: Scrunchy_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Scrunchy_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: SeaWolves_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for SeaWolves_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: ShakeltOph_16 Start: 8971, Stop: 11214, Start Num: 7

Candidate Starts for ShakeltOph_16:

(Start: 7 @8971 has 54 MA's), (13, 9058), (26, 9160), (35, 9226), (47, 9331), (60, 9442), (62, 9448), (71, 9544), (77, 9586), (96, 9733), (100, 9751), (126, 9868), (134, 9895), (152, 9928), (162, 9964), (173, 10012), (180, 10051), (188, 10090), (198, 10138), (200, 10147), (202, 10156), (205, 10165), (216, 10207), (227, 10243), (231, 10255), (241, 10300), (243, 10306), (250, 10330), (259, 10366), (264, 10384), (272, 10408), (274, 10417), (277, 10429), (284, 10450), (285, 10453), (292, 10483), (363, 10729), (406, 10846), (424, 10942), (426, 10948), (431, 10978),

Gene: Shrooms_65 Start: 34492, Stop: 37881, Start Num: 2

Candidate Starts for Shrooms_65:

(1, 34486), (Start: 2 @34492 has 7 MA's), (3, 34510), (4, 34513), (6, 34543), (Start: 7 @34546 has 54 MA's), (12, 34621), (23, 34723), (25, 34735), (35, 34804), (60, 35020), (61, 35023), (62, 35026), (69, 35113), (77, 35164), (81, 35209), (85, 35236), (96, 35311), (100, 35329), (104, 35362), (116, 35431), (127, 35491), (128, 35494), (136, 35560), (137, 35566), (140, 35587), (144, 35602), (151, 35644), (163, 35698), (170, 35722), (171, 35728), (174, 35743), (176, 35752), (189, 35833), (196, 35866), (206, 35902), (215, 35935), (227, 35986), (234, 36016), (251, 36076), (252, 36079), (277, 36166), (281, 36178), (284, 36187), (293, 36223), (296, 36235), (299, 36253), (305, 36280), (318, 36331), (324, 36364), (326, 36409), (329, 36427), (331, 36433), (333, 36445), (335, 36463), (336, 36472), (343, 36517), (360, 36586), (370, 36631), (374, 36649), (378, 36673), (379, 36676), (380, 36685), (382, 36697), (385, 36709), (390, 36751), (399, 36817), (414, 36907), (421, 36940), (423, 36958), (433, 37012), (434, 37015), (441, 37066), (442, 37069), (448, 37090), (450, 37102), (454, 37126), (457, 37135), (461, 37156), (471, 37246), (473, 37267), (474, 37309), (476, 37327), (477, 37399), (478, 37420), (479, 37444), (480, 37453), (481, 37474), (482, 37507), (487, 37609), (489, 37654), (492, 37720), (494, 37777),

Gene: Simpson_18 Start: 10730, Stop: 13045, Start Num: 7

Candidate Starts for Simpson_18:

(Start: 7 @10730 has 54 MA's), (18, 10886), (19, 10895), (33, 10976), (34, 10988), (38, 11036), (52, 11153), (63, 11234), (64, 11237), (66, 11267), (72, 11321), (76, 11351), (83, 11408), (86, 11432), (94, 11492), (167, 11717), (200, 11813), (219, 11885), (232, 11933), (246, 11987), (257, 12029), (269, 12068), (286, 12128), (364, 12407), (369, 12431), (376, 12464), (377, 12467), (388, 12518), (403, 12629), (406, 12650), (407, 12653), (413, 12686), (428, 12764), (432, 12785), (435, 12803), (446, 12863), (452, 12893), (462, 12944), (468, 12989), (472, 13034),

Gene: Sippinontea_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Sippinontea_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Slentz_12 Start: 7546, Stop: 9651, Start Num: 9

Candidate Starts for Slentz_12:

(Start: 9 @7546 has 111 MA's), (11, 7567), (35, 7744), (36, 7753), (37, 7777), (45, 7849), (49, 7873), (50, 7879), (68, 8029), (70, 8050), (72, 8062), (73, 8071), (103, 8278), (107, 8296), (141, 8383), (163, 8452), (168, 8464), (185, 8512), (205, 8542), (209, 8557), (221, 8593), (226, 8620), (232, 8641), (240, 8665), (247, 8689), (249, 8695), (256, 8722), (267, 8755), (276, 8794), (285, 8821), (290, 8842), (294, 8857), (306, 8884), (307, 8887), (314, 8908), (316, 8920), (318, 8926), (343, 8974), (362, 9049), (364, 9058), (370, 9085), (375, 9106), (393, 9169), (396, 9193), (405, 9250), (426, 9355), (429, 9376), (432, 9388), (438, 9430), (441, 9451), (447, 9472),

Gene: Slizam_11 Start: 7579, Stop: 9684, Start Num: 9

Candidate Starts for Slizam_11:

(Start: 9 @7579 has 111 MA's), (11, 7600), (35, 7777), (36, 7786), (37, 7810), (45, 7882), (49, 7906), (64, 8005), (70, 8083), (72, 8095), (73, 8104), (103, 8311), (107, 8329), (141, 8416), (163, 8485), (168, 8497), (185, 8545), (205, 8575), (209, 8590), (224, 8644), (232, 8674), (233, 8677), (240, 8698), (249, 8728), (256, 8755), (267, 8788), (276, 8827), (285, 8854), (286, 8860), (290, 8875), (294, 8890), (306, 8917), (307, 8920), (314, 8941), (316, 8953), (318, 8959), (343, 9007), (351, 9043), (364, 9091), (370,

9118), (375, 9139), (393, 9202), (396, 9226), (405, 9283), (426, 9388), (429, 9409), (438, 9463), (441, 9484), (447, 9505),

Gene: Snek_16 Start: 9838, Stop: 12117, Start Num: 7

Candidate Starts for Snek_16:

(Start: 7 @9838 has 54 MA's), (31, 10042), (35, 10093), (46, 10195), (53, 10261), (60, 10309), (62, 10315), (69, 10402), (71, 10411), (77, 10453), (81, 10498), (96, 10600), (100, 10618), (126, 10747), (133, 10762), (148, 10804), (154, 10825), (158, 10840), (182, 10951), (198, 11023), (200, 11032), (202, 11041), (206, 11053), (218, 11098), (220, 11104), (225, 11119), (231, 11140), (241, 11185), (262, 11263), (285, 11338), (289, 11356), (339, 11503), (363, 11614), (386, 11677), (402, 11698), (405, 11725), (408, 11740), (426, 11830), (431, 11860), (443, 11926), (466, 12052), (470, 12091),

Gene: Snuffles_13 Start: 7751, Stop: 9856, Start Num: 9

Candidate Starts for Snuffles_13:

(Start: 9 @7751 has 111 MA's), (11, 7772), (35, 7949), (36, 7958), (37, 7982), (45, 8054), (49, 8078), (64, 8177), (70, 8255), (72, 8267), (73, 8276), (103, 8483), (107, 8501), (141, 8588), (163, 8657), (168, 8669), (185, 8717), (205, 8747), (209, 8762), (224, 8816), (232, 8846), (233, 8849), (240, 8870), (249, 8900), (256, 8927), (267, 8960), (276, 8999), (285, 9026), (286, 9032), (290, 9047), (294, 9062), (306, 9089), (307, 9092), (314, 9113), (316, 9125), (318, 9131), (343, 9179), (351, 9215), (364, 9263), (370, 9290), (375, 9311), (393, 9374), (396, 9398), (405, 9455), (426, 9560), (429, 9581), (438, 9635), (441, 9656), (447, 9677),

Gene: Stem_11 Start: 7579, Stop: 9684, Start Num: 9

Candidate Starts for Stem_11:

(Start: 9 @7579 has 111 MA's), (11, 7600), (35, 7777), (36, 7786), (37, 7810), (45, 7882), (49, 7906), (64, 8005), (68, 8062), (70, 8083), (72, 8095), (73, 8104), (103, 8311), (107, 8329), (141, 8416), (163, 8485), (168, 8497), (185, 8545), (205, 8575), (209, 8590), (224, 8644), (232, 8674), (233, 8677), (240, 8698), (249, 8728), (256, 8755), (267, 8788), (276, 8827), (285, 8854), (286, 8860), (290, 8875), (294, 8890), (306, 8917), (307, 8920), (314, 8941), (316, 8953), (318, 8959), (343, 9007), (351, 9043), (364, 9091), (370, 9118), (375, 9139), (393, 9202), (396, 9226), (405, 9283), (426, 9388), (429, 9409), (438, 9463), (441, 9484), (447, 9505),

Gene: Sucha_16 Start: 10506, Stop: 12797, Start Num: 8

Candidate Starts for Sucha_16:

(Start: 8 @10506 has 5 MA's), (19, 10623), (26, 10656), (42, 10797), (52, 10875), (69, 11031), (77, 11082), (82, 11133), (85, 11154), (102, 11268), (103, 11271), (105, 11292), (117, 11349), (148, 11478), (150, 11481), (155, 11499), (160, 11517), (166, 11541), (196, 11703), (217, 11784), (223, 11802), (226, 11823), (234, 11856), (235, 11859), (265, 11964), (271, 11988), (292, 12066), (293, 12069), (299, 12099), (310, 12144), (318, 12177), (353, 12276), (363, 12312), (364, 12318), (370, 12345), (400, 12384), (406, 12429), (409, 12441), (411, 12453), (412, 12462), (413, 12465), (435, 12579), (443, 12630), (448, 12645),

Gene: Sue2_16 Start: 10752, Stop: 13142, Start Num: 7

Candidate Starts for Sue2_16:

(Start: 7 @10752 has 54 MA's), (Start: 8 @10785 has 5 MA's), (19, 10905), (26, 10941), (35, 11007), (46, 11109), (60, 11223), (62, 11229), (69, 11316), (71, 11325), (77, 11367), (96, 11514), (147, 11790), (166, 11874), (188, 11985), (203, 12063), (205, 12069), (208, 12078), (215, 12105), (241, 12204), (269, 12303), (273, 12315), (280, 12342), (285, 12357), (287, 12366), (289, 12375), (299, 12420), (321, 12507), (343, 12552), (372, 12675), (404, 12732), (406, 12750), (407, 12753), (417, 12801), (428, 12864), (435, 12903), (466, 13077),

Gene: Tallboi_16 Start: 10731, Stop: 13055, Start Num: 7

Candidate Starts for Tallboi_16:

(Start: 7 @10731 has 54 MA's), (16, 10878), (18, 10887), (33, 10977), (38, 11037), (43, 11082), (52, 11154), (58, 11214), (64, 11238), (66, 11268), (72, 11322), (76, 11352), (83, 11409), (86, 11433), (94, 11493), (95, 11499), (167, 11718), (219, 11886), (232, 11934), (246, 11988), (257, 12030), (269, 12069), (286, 12129), (307, 12222), (362, 12399), (364, 12408), (388, 12519), (406, 12651), (407, 12654), (413, 12687), (428, 12765), (435, 12804), (446, 12864), (452, 12894), (462, 12954),

Gene: Tbone_16 Start: 10734, Stop: 13049, Start Num: 7

Candidate Starts for Tbone_16:

(Start: 7 @10734 has 54 MA's), (18, 10890), (19, 10899), (33, 10980), (34, 10992), (38, 11040), (39, 11043), (43, 11085), (52, 11157), (63, 11238), (64, 11241), (66, 11271), (72, 11325), (76, 11355), (83, 11412), (86, 11436), (94, 11496), (167, 11721), (200, 11817), (216, 11880), (219, 11889), (232, 11937), (237, 11958), (246, 11991), (257, 12033), (269, 12072), (286, 12132), (320, 12273), (362, 12402), (364, 12411), (369, 12435), (376, 12468), (384, 12504), (388, 12522), (403, 12633), (406, 12654), (407, 12657), (413, 12690), (428, 12768), (435, 12807), (446, 12867), (452, 12897), (462, 12948), (468, 12993), (472, 13038),

Gene: TeddyBoy_12 Start: 7547, Stop: 9652, Start Num: 9

Candidate Starts for TeddyBoy_12:

(Start: 9 @7547 has 111 MA's), (11, 7568), (35, 7745), (36, 7754), (37, 7778), (45, 7850), (49, 7874), (50, 7880), (68, 8030), (70, 8051), (72, 8063), (73, 8072), (103, 8279), (107, 8297), (141, 8384), (163, 8453), (168, 8465), (185, 8513), (205, 8543), (209, 8558), (221, 8594), (226, 8621), (232, 8642), (240, 8666), (247, 8690), (249, 8696), (256, 8723), (267, 8756), (276, 8795), (285, 8822), (290, 8843), (294, 8858), (306, 8885), (307, 8888), (314, 8909), (316, 8921), (318, 8927), (343, 8975), (362, 9050), (364, 9059), (370, 9086), (375, 9107), (393, 9170), (396, 9194), (405, 9251), (426, 9356), (429, 9377), (432, 9389), (438, 9431), (441, 9452), (447, 9473),

Gene: TforTroy_16 Start: 10854, Stop: 13178, Start Num: 7

Candidate Starts for TforTroy_16:

(Start: 7 @10854 has 54 MA's), (18, 11010), (19, 11019), (20, 11022), (21, 11028), (33, 11100), (38, 11160), (52, 11277), (63, 11358), (64, 11361), (66, 11391), (72, 11445), (76, 11475), (83, 11532), (86, 11556), (94, 11616), (95, 11622), (126, 11745), (167, 11841), (219, 12009), (232, 12057), (246, 12111), (257, 12153), (269, 12192), (286, 12252), (307, 12345), (351, 12480), (359, 12513), (362, 12522), (388, 12642), (406, 12774), (407, 12777), (428, 12888), (435, 12927),

Gene: Tian_16 Start: 10746, Stop: 13070, Start Num: 7

Candidate Starts for Tian_16:

(Start: 7 @10746 has 54 MA's), (18, 10902), (19, 10911), (33, 10992), (38, 11052), (43, 11097), (52, 11169), (58, 11229), (63, 11250), (64, 11253), (66, 11283), (72, 11337), (76, 11367), (83, 11424), (86, 11448), (94, 11508), (95, 11514), (125, 11634), (167, 11733), (200, 11829), (219, 11901), (232, 11949), (237, 11970), (246, 12003), (257, 12045), (269, 12084), (286, 12144), (290, 12159), (304, 12225), (344, 12348), (346, 12357), (362, 12414), (364, 12423), (376, 12480), (377, 12483), (388, 12534), (406, 12666), (407, 12669), (428, 12780), (435, 12819), (438, 12843), (462, 12969),

Gene: TimoTea_12 Start: 7528, Stop: 9633, Start Num: 9

Candidate Starts for TimoTea_12:

(Start: 9 @7528 has 111 MA's), (11, 7549), (35, 7726), (36, 7735), (37, 7759), (45, 7831), (49, 7855), (50, 7861), (68, 8011), (70, 8032), (72, 8044), (73, 8053), (103, 8260), (107, 8278), (141, 8365), (163, 8434), (168, 8446), (185, 8494), (205, 8524), (209, 8539), (221, 8575), (226, 8602), (232, 8623), (240, 8647), (247, 8671), (249, 8677), (256, 8704), (267, 8737), (276, 8776), (285, 8803), (290, 8824), (294, 8839), (306, 8866), (307, 8869), (314, 8890), (316, 8902), (318, 8908), (343, 8956), (362, 9031), (364, 9040), (370, 9067), (375, 9088), (393, 9151), (396, 9175), (405, 9232), (426, 9337), (429, 9358), (432, 9370), (438, 9412), (441, 9433), (447, 9454),

Gene: TinyTruffula_12 Start: 7648, Stop: 9753, Start Num: 9

Candidate Starts for TinyTruffula_12:

(Start: 9 @7648 has 111 MA's), (11, 7669), (35, 7846), (36, 7855), (37, 7879), (45, 7951), (49, 7975), (64, 8074), (68, 8131), (70, 8152), (72, 8164), (73, 8173), (103, 8380), (107, 8398), (141, 8485), (163, 8554), (168, 8566), (185, 8614), (205, 8644), (209, 8659), (232, 8743), (233, 8746), (240, 8767), (249, 8797), (256, 8824), (267, 8857), (276, 8896), (285, 8923), (286, 8929), (290, 8944), (294, 8959), (307, 8989), (314, 9010), (316, 9022), (318, 9028), (343, 9076), (351, 9112), (364, 9160), (370, 9187), (375, 9208), (393, 9271), (396, 9295), (405, 9352), (426, 9457), (429, 9478), (438, 9532), (441, 9553), (447, 9574),

Gene: TomBrady12_12 Start: 7580, Stop: 9685, Start Num: 9

Candidate Starts for TomBrady12_12:

(Start: 9 @7580 has 111 MA's), (11, 7601), (35, 7778), (36, 7787), (37, 7811), (45, 7883), (49, 7907), (64, 8006), (70, 8084), (72, 8096), (73, 8105), (103, 8312), (107, 8330), (141, 8417), (163, 8486), (168, 8498), (185, 8546), (205, 8576), (209, 8591), (224, 8645), (232, 8675), (233, 8678), (240, 8699), (249, 8729), (256, 8756), (267, 8789), (276, 8828), (285, 8855), (286, 8861), (290, 8876), (294, 8891), (306, 8918), (307, 8921), (314, 8942), (316, 8954), (318, 8960), (343, 9008), (351, 9044), (364, 9092), (370, 9119), (375, 9140), (393, 9203), (396, 9227), (405, 9284), (426, 9389), (429, 9410), (438, 9464), (441, 9485), (447, 9506),

Gene: Trireme_12 Start: 7646, Stop: 9751, Start Num: 9

Candidate Starts for Trireme_12:

(Start: 9 @7646 has 111 MA's), (11, 7667), (35, 7844), (36, 7853), (37, 7877), (45, 7949), (49, 7973), (64, 8072), (68, 8129), (70, 8150), (72, 8162), (73, 8171), (103, 8378), (107, 8396), (141, 8483), (163, 8552), (168, 8564), (185, 8612), (205, 8642), (209, 8657), (224, 8711), (232, 8741), (233, 8744), (240, 8765), (249, 8795), (256, 8822), (267, 8855), (276, 8894), (285, 8921), (286, 8927), (290, 8942), (294, 8957), (307, 8987), (314, 9008), (316, 9020), (318, 9026), (343, 9074), (351, 9110), (364, 9158), (370, 9185), (375, 9206), (393, 9269), (396, 9293), (405, 9350), (426, 9455), (429, 9476), (438, 9530), (441, 9551), (447, 9572),

Gene: Tuck_17 Start: 11773, Stop: 14250, Start Num: 7

Candidate Starts for Tuck_17:

(Start: 7 @11773 has 54 MA's), (18, 11929), (19, 11938), (33, 12019), (38, 12079), (43, 12124), (52, 12196), (64, 12280), (66, 12310), (72, 12364), (76, 12394), (83, 12451), (86, 12475), (94, 12535), (95, 12541), (101, 12565), (118, 12643), (123, 12676), (156, 12811), (167, 12853), (186, 12952), (201, 13024), (212, 13063), (219, 13090), (232, 13138), (240, 13171), (257, 13234), (274, 13291), (286, 13333), (290, 13348), (307, 13426), (347, 13549), (361, 13597), (364, 13612), (384, 13705), (388, 13723), (389, 13735), (406, 13855), (407, 13858), (428, 13969), (435, 14008), (452, 14098),

Gene: Turab_16 Start: 10733, Stop: 13057, Start Num: 7

Candidate Starts for Turab_16:

(Start: 7 @10733 has 54 MA's), (18, 10889), (19, 10898), (22, 10913), (33, 10979), (38, 11039), (43, 11084), (52, 11156), (63, 11237), (64, 11240), (66, 11270), (72, 11324), (76, 11354), (83, 11411), (86, 11435), (94, 11495), (95, 11501), (167, 11720), (200, 11816), (209, 11849), (232, 11936), (246, 11990), (257, 12032), (269, 12071), (286, 12131), (320, 12272), (362, 12401), (364, 12410), (388, 12521), (406, 12653), (407, 12656), (413, 12689), (428, 12767), (435, 12806), (446, 12866), (462, 12956),

Gene: Tutumahutu_16 Start: 10781, Stop: 13096, Start Num: 7

Candidate Starts for Tutumahutu_16:

(Start: 7 @10781 has 54 MA's), (18, 10937), (19, 10946), (33, 11027), (34, 11039), (38, 11087), (39, 11090), (43, 11132), (52, 11204), (63, 11285), (64, 11288), (66, 11318), (72, 11372), (76, 11402), (83, 11459), (86, 11483), (94, 11543), (167, 11768), (200, 11864), (216, 11927), (219, 11936), (232,

11984), (234, 11993), (237, 12005), (246, 12038), (257, 12080), (269, 12119), (286, 12179), (320, 12320), (347, 12395), (351, 12407), (362, 12449), (364, 12458), (369, 12482), (384, 12551), (388, 12569), (389, 12581), (403, 12680), (406, 12701), (407, 12704), (413, 12737), (428, 12815), (435, 12854), (446, 12914), (452, 12944), (462, 12995), (468, 13040), (472, 13085),

Gene: Tweety19_16 Start: 9837, Stop: 12116, Start Num: 7

Candidate Starts for Tweety19_16:

(Start: 7 @9837 has 54 MA's), (31, 10041), (35, 10092), (46, 10194), (53, 10260), (60, 10308), (62, 10314), (69, 10401), (71, 10410), (77, 10452), (81, 10497), (96, 10599), (100, 10617), (126, 10746), (133, 10761), (148, 10803), (154, 10824), (158, 10839), (182, 10950), (198, 11022), (200, 11031), (202, 11040), (206, 11052), (218, 11097), (220, 11103), (225, 11118), (231, 11139), (241, 11184), (262, 11262), (285, 11337), (289, 11355), (339, 11502), (363, 11613), (386, 11676), (402, 11697), (405, 11724), (408, 11739), (426, 11829), (431, 11859), (443, 11925), (466, 12051), (470, 12090),

Gene: Upsilon_12 Start: 7615, Stop: 9720, Start Num: 9

Candidate Starts for Upsilon_12:

(Start: 9 @7615 has 111 MA's), (11, 7636), (35, 7813), (36, 7822), (37, 7846), (45, 7918), (49, 7942), (64, 8041), (68, 8098), (70, 8119), (72, 8131), (73, 8140), (103, 8347), (107, 8365), (141, 8452), (163, 8521), (168, 8533), (185, 8581), (205, 8611), (209, 8626), (224, 8680), (232, 8710), (233, 8713), (240, 8734), (249, 8764), (256, 8791), (267, 8824), (276, 8863), (285, 8890), (286, 8896), (290, 8911), (294, 8926), (307, 8956), (314, 8977), (316, 8989), (318, 8995), (343, 9043), (351, 9079), (364, 9127), (370, 9154), (375, 9175), (393, 9238), (396, 9262), (405, 9319), (426, 9424), (429, 9445), (432, 9457), (438, 9499), (441, 9520), (447, 9541),

Gene: UtzChips_14 Start: 9915, Stop: 12263, Start Num: 7

Candidate Starts for UtzChips_14:

(Start: 7 @9915 has 54 MA's), (27, 10098), (37, 10194), (51, 10302), (57, 10362), (81, 10557), (90, 10620), (104, 10704), (107, 10716), (108, 10719), (121, 10770), (133, 10821), (146, 10908), (161, 10968), (167, 10992), (183, 11073), (204, 11133), (212, 11154), (226, 11214), (232, 11235), (236, 11244), (251, 11295), (274, 11382), (276, 11391), (308, 11487), (310, 11493), (318, 11526), (354, 11622), (364, 11661), (396, 11799), (406, 11862), (428, 11973), (447, 12078), (453, 12114),

Gene: VResidence_16 Start: 10828, Stop: 13143, Start Num: 7

Candidate Starts for VResidence_16:

(Start: 7 @10828 has 54 MA's), (Start: 8 @10861 has 5 MA's), (13, 10915), (20, 10984), (37, 11116), (41, 11143), (51, 11224), (55, 11275), (57, 11284), (68, 11368), (81, 11479), (88, 11530), (103, 11620), (108, 11644), (115, 11671), (135, 11764), (178, 11956), (183, 11983), (190, 12016), (205, 12049), (213, 12067), (215, 12073), (225, 12115), (227, 12124), (231, 12136), (248, 12190), (256, 12214), (269, 12256), (270, 12262), (284, 12310), (295, 12355), (303, 12373), (306, 12385), (319, 12430), (346, 12496), (349, 12505), (404, 12730), (406, 12748), (407, 12751), (420, 12817), (428, 12862), (431, 12880), (435, 12901), (456, 13012), (464, 13078),

Gene: Vanisius_12 Start: 7552, Stop: 9657, Start Num: 9

Candidate Starts for Vanisius_12:

(Start: 9 @7552 has 111 MA's), (11, 7573), (35, 7750), (36, 7759), (37, 7783), (45, 7855), (49, 7879), (50, 7885), (68, 8035), (70, 8056), (72, 8068), (73, 8077), (103, 8284), (107, 8302), (141, 8389), (163, 8458), (168, 8470), (185, 8518), (205, 8548), (209, 8563), (221, 8599), (226, 8626), (232, 8647), (240, 8671), (247, 8695), (249, 8701), (256, 8728), (267, 8761), (276, 8800), (285, 8827), (290, 8848), (294, 8863), (306, 8890), (307, 8893), (314, 8914), (316, 8926), (318, 8932), (343, 8980), (362, 9055), (364, 9064), (370, 9091), (375, 9112), (393, 9175), (396, 9199), (405, 9256), (426, 9361), (429, 9382), (432, 9394), (438, 9436), (441, 9457), (447, 9478),

Gene: VitulaEligans_12 Start: 7636, Stop: 9741, Start Num: 9

Candidate Starts for VitulaEligans_12:

(Start: 9 @7636 has 111 MA's), (11, 7657), (35, 7834), (36, 7843), (37, 7867), (45, 7939), (49, 7963), (50, 7969), (68, 8119), (70, 8140), (72, 8152), (73, 8161), (103, 8368), (107, 8386), (141, 8473), (163, 8542), (168, 8554), (185, 8602), (205, 8632), (209, 8647), (226, 8710), (232, 8731), (240, 8755), (247, 8779), (249, 8785), (256, 8812), (267, 8845), (276, 8884), (285, 8911), (290, 8932), (294, 8947), (306, 8974), (307, 8977), (314, 8998), (316, 9010), (318, 9016), (343, 9064), (351, 9100), (362, 9139), (364, 9148), (370, 9175), (375, 9196), (393, 9259), (396, 9283), (405, 9340), (426, 9445), (429, 9466), (432, 9478), (438, 9520), (441, 9541), (447, 9562), (467, 9691),

Gene: VroomVroom_15 Start: 8983, Stop: 11226, Start Num: 7

Candidate Starts for VroomVroom_15:

(Start: 7 @8983 has 54 MA's), (13, 9070), (22, 9151), (26, 9172), (35, 9238), (47, 9343), (60, 9454), (62, 9460), (71, 9556), (77, 9598), (96, 9745), (126, 9880), (134, 9907), (152, 9940), (173, 10024), (180, 10063), (188, 10102), (193, 10126), (198, 10150), (200, 10159), (205, 10177), (212, 10204), (216, 10219), (227, 10255), (231, 10267), (241, 10312), (243, 10318), (259, 10378), (264, 10396), (272, 10420), (284, 10462), (285, 10465), (292, 10495), (317, 10603), (406, 10858), (409, 10870), (424, 10954), (426, 10960), (431, 10990),

Gene: Waltz_64 Start: 34787, Stop: 37879, Start Num: 2

Candidate Starts for Waltz_64:

(1, 34781), (Start: 2 @34787 has 7 MA's), (3, 34805), (4, 34808), (6, 34838), (12, 34916), (23, 35018), (25, 35030), (35, 35099), (60, 35315), (61, 35318), (62, 35321), (69, 35408), (77, 35459), (81, 35504), (85, 35531), (96, 35606), (100, 35624), (104, 35657), (113, 35702), (114, 35720), (127, 35786), (128, 35789), (133, 35828), (137, 35861), (140, 35882), (144, 35897), (151, 35939), (157, 35969), (163, 35993), (170, 36017), (171, 36023), (174, 36038), (176, 36047), (192, 36140), (196, 36161), (206, 36197), (215, 36230), (227, 36281), (234, 36311), (252, 36374), (266, 36422), (272, 36443), (277, 36461), (281, 36473), (284, 36482), (288, 36497), (293, 36518), (301, 36563), (304, 36572), (309, 36590), (323, 36641), (342, 36671), (343, 36680), (360, 36749), (373, 36806), (421, 36938), (423, 36956), (433, 37010), (434, 37013), (441, 37064), (442, 37067), (457, 37133), (459, 37145), (471, 37244), (473, 37265), (474, 37307), (477, 37397), (478, 37418), (479, 37442), (480, 37451), (481, 37472), (482, 37505), (483, 37514), (487, 37607), (489, 37652), (492, 37718), (494, 37775), (495, 37841),

Gene: Warda_16 Start: 10726, Stop: 13041, Start Num: 7

Candidate Starts for Warda_16:

(Start: 7 @10726 has 54 MA's), (18, 10882), (19, 10891), (33, 10972), (34, 10984), (38, 11032), (39, 11035), (43, 11077), (52, 11149), (63, 11230), (64, 11233), (66, 11263), (72, 11317), (76, 11347), (83, 11404), (86, 11428), (94, 11488), (167, 11713), (200, 11809), (216, 11872), (219, 11881), (232, 11929), (237, 11950), (246, 11983), (257, 12025), (269, 12064), (286, 12124), (320, 12265), (362, 12394), (364, 12403), (369, 12427), (376, 12460), (384, 12496), (388, 12514), (403, 12625), (406, 12646), (407, 12649), (413, 12682), (428, 12760), (435, 12799), (446, 12859), (452, 12889), (462, 12940), (468, 12985), (472, 13030),

Gene: Wheelbite_63 Start: 36504, Stop: 39521, Start Num: 2

Candidate Starts for Wheelbite_63:

(Start: 2 @36504 has 7 MA's), (4, 36525), (6, 36555), (Start: 7 @36558 has 54 MA's), (15, 36663), (28, 36756), (35, 36816), (58, 37026), (60, 37032), (61, 37035), (62, 37038), (69, 37125), (77, 37176), (80, 37218), (81, 37221), (92, 37305), (96, 37323), (124, 37473), (149, 37566), (174, 37665), (191, 37761), (201, 37809), (202, 37812), (206, 37824), (211, 37845), (215, 37857), (227, 37908), (252, 38001), (255, 38016), (288, 38124), (291, 38136), (293, 38145), (299, 38175), (304, 38199), (308, 38214), (323, 38268), (343, 38307), (373, 38433), (415, 38538), (427, 38604), (434, 38640), (436, 38658), (439, 38682), (442, 38694), (444, 38703), (448, 38715), (458, 38769), (469, 38850), (471, 38871), (473, 38892), (474, 38934), (475, 38937), (478, 39045), (480, 39078), (481, 39099), (483,

39141), (484, 39147), (485, 39204), (487, 39234), (488, 39243), (490, 39342), (491, 39348), (494, 39417), (496, 39504),

Gene: Wildwest_17 Start: 11664, Stop: 13910, Start Num: 7

Candidate Starts for Wildwest_17:

(Start: 7 @11664 has 54 MA's), (18, 11820), (19, 11829), (24, 11856), (33, 11910), (38, 11970), (52, 12087), (63, 12168), (64, 12171), (66, 12201), (72, 12255), (76, 12285), (83, 12342), (86, 12366), (91, 12408), (94, 12426), (167, 12651), (207, 12771), (219, 12819), (232, 12867), (234, 12876), (257, 12963), (269, 13002), (274, 13020), (286, 13062), (310, 13164), (322, 13209), (339, 13224), (345, 13269), (359, 13323), (362, 13332), (367, 13356), (384, 13380), (392, 13419), (403, 13497), (406, 13518), (407, 13521), (417, 13569), (428, 13632), (431, 13650), (435, 13671), (465, 13845),

Gene: Witch_12 Start: 7541, Stop: 9646, Start Num: 9

Candidate Starts for Witch_12:

(Start: 9 @7541 has 111 MA's), (11, 7562), (35, 7739), (36, 7748), (37, 7772), (45, 7844), (49, 7868), (50, 7874), (68, 8024), (70, 8045), (72, 8057), (73, 8066), (103, 8273), (107, 8291), (141, 8378), (163, 8447), (168, 8459), (185, 8507), (205, 8537), (209, 8552), (221, 8588), (226, 8615), (232, 8636), (240, 8660), (247, 8684), (249, 8690), (256, 8717), (267, 8750), (276, 8789), (285, 8816), (290, 8837), (294, 8852), (306, 8879), (307, 8882), (314, 8903), (316, 8915), (318, 8921), (343, 8969), (351, 9005), (364, 9053), (370, 9080), (375, 9101), (393, 9164), (396, 9188), (405, 9245), (426, 9350), (429, 9371), (432, 9383), (438, 9425), (441, 9446), (447, 9467), (467, 9596),

Gene: Wolfpack_12 Start: 7533, Stop: 9638, Start Num: 9

Candidate Starts for Wolfpack_12:

(Start: 9 @7533 has 111 MA's), (11, 7554), (35, 7731), (36, 7740), (37, 7764), (45, 7836), (49, 7860), (50, 7866), (64, 7959), (68, 8016), (70, 8037), (72, 8049), (73, 8058), (103, 8265), (107, 8283), (141, 8370), (163, 8439), (168, 8451), (185, 8499), (205, 8529), (209, 8544), (221, 8580), (226, 8607), (233, 8631), (240, 8652), (247, 8676), (249, 8682), (256, 8709), (267, 8742), (276, 8781), (285, 8808), (290, 8829), (294, 8844), (306, 8871), (307, 8874), (316, 8907), (318, 8913), (343, 8961), (351, 8997), (364, 9045), (370, 9072), (375, 9093), (393, 9156), (396, 9180), (405, 9237), (426, 9342), (429, 9363), (432, 9375), (438, 9417), (441, 9438), (447, 9459), (467, 9588),

Gene: Yami_11 Start: 7552, Stop: 9636, Start Num: 11

Candidate Starts for Yami_11:

(Start: 9 @7531 has 111 MA's), (11, 7552), (35, 7729), (36, 7738), (37, 7762), (45, 7834), (49, 7858), (64, 7957), (68, 8014), (70, 8035), (72, 8047), (73, 8056), (103, 8263), (107, 8281), (141, 8368), (163, 8437), (168, 8449), (185, 8497), (205, 8527), (209, 8542), (232, 8626), (233, 8629), (240, 8650), (249, 8680), (256, 8707), (267, 8740), (276, 8779), (285, 8806), (286, 8812), (290, 8827), (294, 8842), (307, 8872), (314, 8893), (316, 8905), (318, 8911), (343, 8959), (351, 8995), (364, 9043), (370, 9070), (375, 9091), (393, 9154), (396, 9178), (405, 9235), (426, 9340), (429, 9361), (438, 9415), (441, 9436), (447, 9457),

Gene: Yang_16 Start: 10824, Stop: 13148, Start Num: 7

Candidate Starts for Yang_16:

(Start: 7 @10824 has 54 MA's), (21, 10998), (25, 11022), (33, 11070), (38, 11130), (52, 11247), (63, 11328), (64, 11331), (66, 11361), (76, 11445), (83, 11502), (86, 11526), (94, 11586), (95, 11592), (166, 11808), (167, 11811), (219, 11979), (232, 12027), (237, 12048), (246, 12081), (257, 12123), (269, 12162), (273, 12174), (286, 12222), (307, 12315), (339, 12384), (358, 12480), (364, 12501), (384, 12594), (388, 12612), (406, 12744), (407, 12747), (428, 12858), (435, 12897),

Gene: Yasuo_12 Start: 7537, Stop: 9642, Start Num: 9

Candidate Starts for Yasuo_12:

(Start: 9 @7537 has 111 MA's), (11, 7558), (35, 7735), (36, 7744), (37, 7768), (45, 7840), (49, 7864), (50, 7870), (68, 8020), (70, 8041), (72, 8053), (73, 8062), (103, 8269), (107, 8287), (141, 8374), (163, 8443), (168, 8455), (185, 8503), (205, 8533), (209, 8548), (221, 8584), (226, 8611), (232, 8632), (240, 8656), (247, 8680), (249, 8686), (256, 8713), (267, 8746), (276, 8785), (285, 8812), (290, 8833), (294, 8848), (306, 8875), (307, 8878), (314, 8899), (316, 8911), (318, 8917), (343, 8965), (362, 9040), (364, 9049), (370, 9076), (375, 9097), (393, 9160), (396, 9184), (405, 9241), (426, 9346), (429, 9367), (432, 9379), (438, 9421), (441, 9442), (447, 9463),

Gene: YertPhresh_12 Start: 7540, Stop: 9645, Start Num: 9

Candidate Starts for YertPhresh_12:

(Start: 9 @7540 has 111 MA's), (11, 7561), (35, 7738), (36, 7747), (37, 7771), (45, 7843), (49, 7867), (50, 7873), (68, 8023), (70, 8044), (72, 8056), (73, 8065), (103, 8272), (107, 8290), (141, 8377), (163, 8446), (168, 8458), (185, 8506), (205, 8536), (209, 8551), (221, 8587), (226, 8614), (232, 8635), (240, 8659), (247, 8683), (249, 8689), (256, 8716), (267, 8749), (276, 8788), (285, 8815), (290, 8836), (294, 8851), (306, 8878), (307, 8881), (314, 8902), (316, 8914), (318, 8920), (343, 8968), (351, 9004), (364, 9052), (370, 9079), (375, 9100), (393, 9163), (396, 9187), (405, 9244), (426, 9349), (429, 9370), (432, 9382), (438, 9424), (441, 9445), (447, 9466), (467, 9595),

Gene: YesChef_16 Start: 10781, Stop: 13096, Start Num: 7

Candidate Starts for YesChef_16:

(Start: 7 @10781 has 54 MA's), (18, 10937), (19, 10946), (33, 11027), (34, 11039), (38, 11087), (39, 11090), (43, 11132), (52, 11204), (63, 11285), (64, 11288), (66, 11318), (72, 11372), (76, 11402), (83, 11459), (86, 11483), (94, 11543), (167, 11768), (200, 11864), (216, 11927), (219, 11936), (232, 11984), (234, 11993), (237, 12005), (246, 12038), (257, 12080), (269, 12119), (286, 12179), (320, 12320), (347, 12395), (351, 12407), (362, 12449), (364, 12458), (369, 12482), (384, 12551), (388, 12569), (403, 12680), (406, 12701), (407, 12704), (413, 12737), (428, 12815), (435, 12854), (446, 12914), (452, 12944), (462, 12995), (468, 13040), (472, 13085),

Gene: Yubaba_12 Start: 7574, Stop: 9679, Start Num: 9

Candidate Starts for Yubaba_12:

(Start: 9 @7574 has 111 MA's), (11, 7595), (35, 7772), (36, 7781), (37, 7805), (45, 7877), (49, 7901), (50, 7907), (68, 8057), (70, 8078), (72, 8090), (73, 8099), (103, 8306), (107, 8324), (141, 8411), (163, 8480), (168, 8492), (185, 8540), (205, 8570), (209, 8585), (221, 8621), (226, 8648), (232, 8669), (240, 8693), (247, 8717), (249, 8723), (256, 8750), (267, 8783), (276, 8822), (285, 8849), (290, 8870), (294, 8885), (306, 8912), (307, 8915), (314, 8936), (316, 8948), (318, 8954), (343, 9002), (351, 9038), (364, 9086), (370, 9113), (375, 9134), (393, 9197), (396, 9221), (405, 9278), (426, 9383), (429, 9404), (432, 9416), (438, 9458), (441, 9479), (447, 9500), (467, 9629),

Gene: Zeta1847_14 Start: 9068, Stop: 11329, Start Num: 5

Candidate Starts for Zeta1847_14:

(Start: 5 @9068 has 1 MA's), (14, 9158), (17, 9203), (22, 9230), (27, 9254), (29, 9260), (37, 9350), (51, 9458), (57, 9518), (81, 9713), (90, 9776), (108, 9875), (110, 9884), (143, 9986), (181, 10118), (184, 10139), (201, 10184), (229, 10283), (240, 10319), (242, 10325), (254, 10364), (268, 10415), (276, 10448), (288, 10487), (302, 10523), (318, 10580), (354, 10673), (355, 10679), (364, 10712), (375, 10760), (406, 10910), (409, 10922), (425, 11006), (460, 11186),