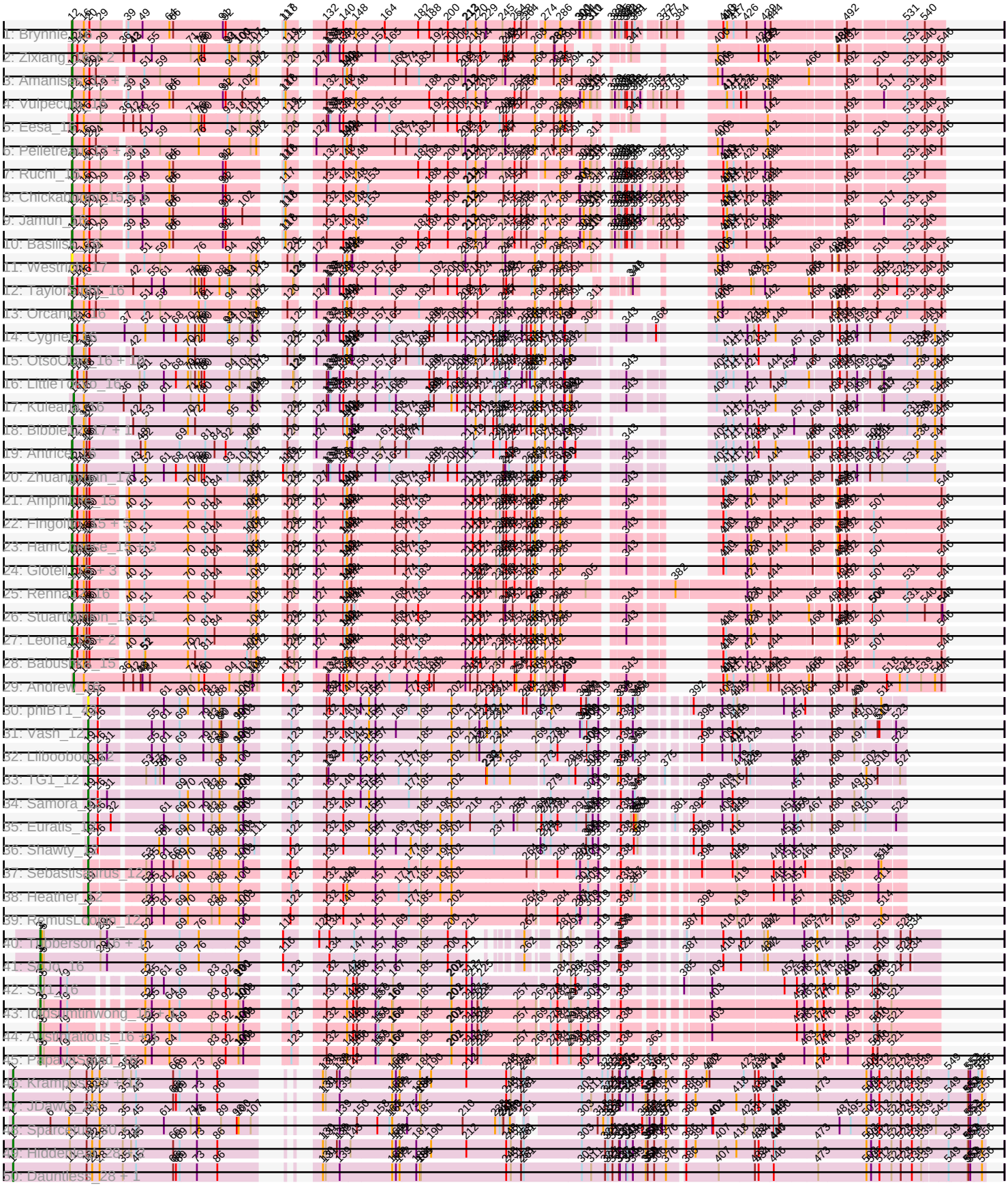
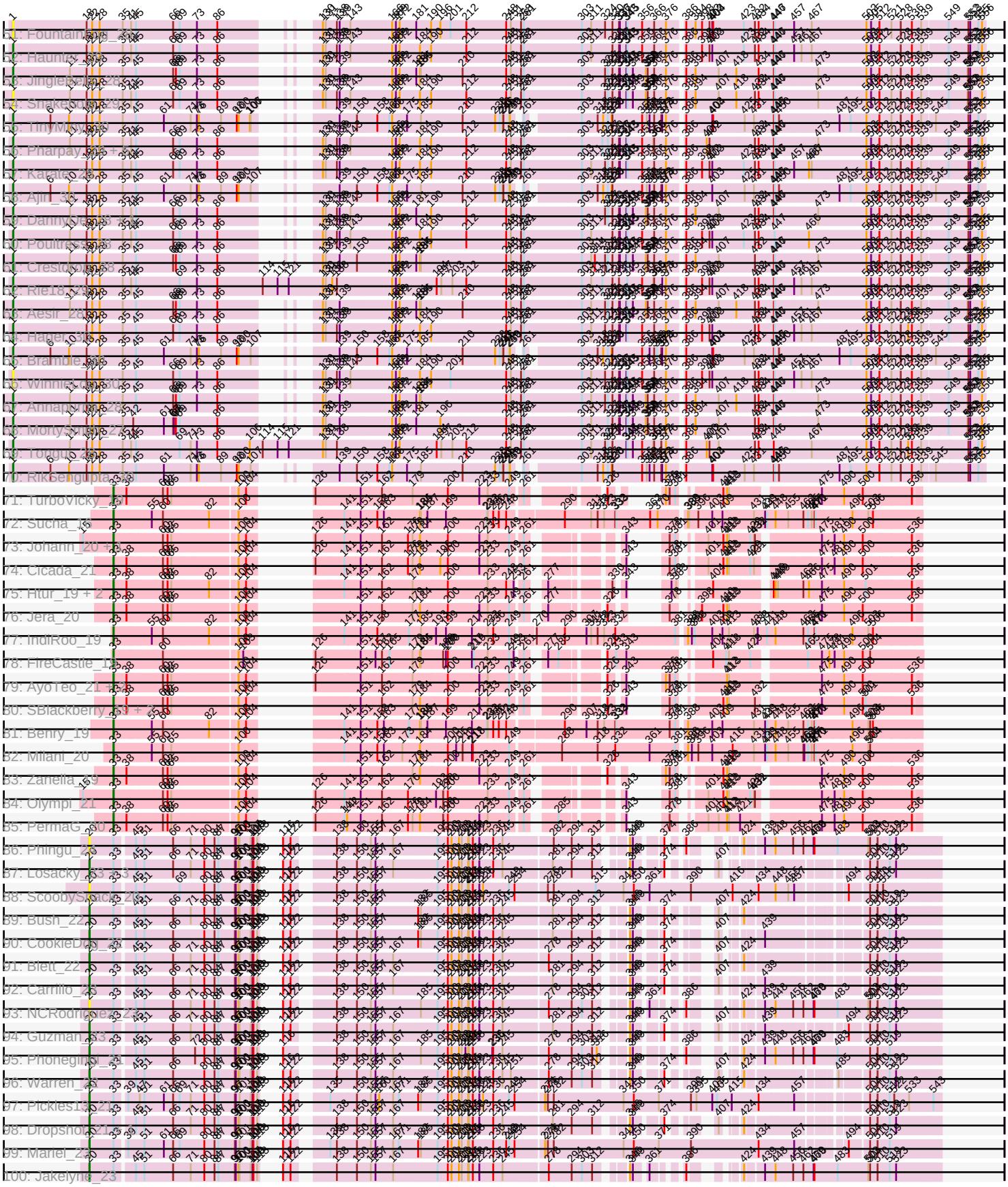
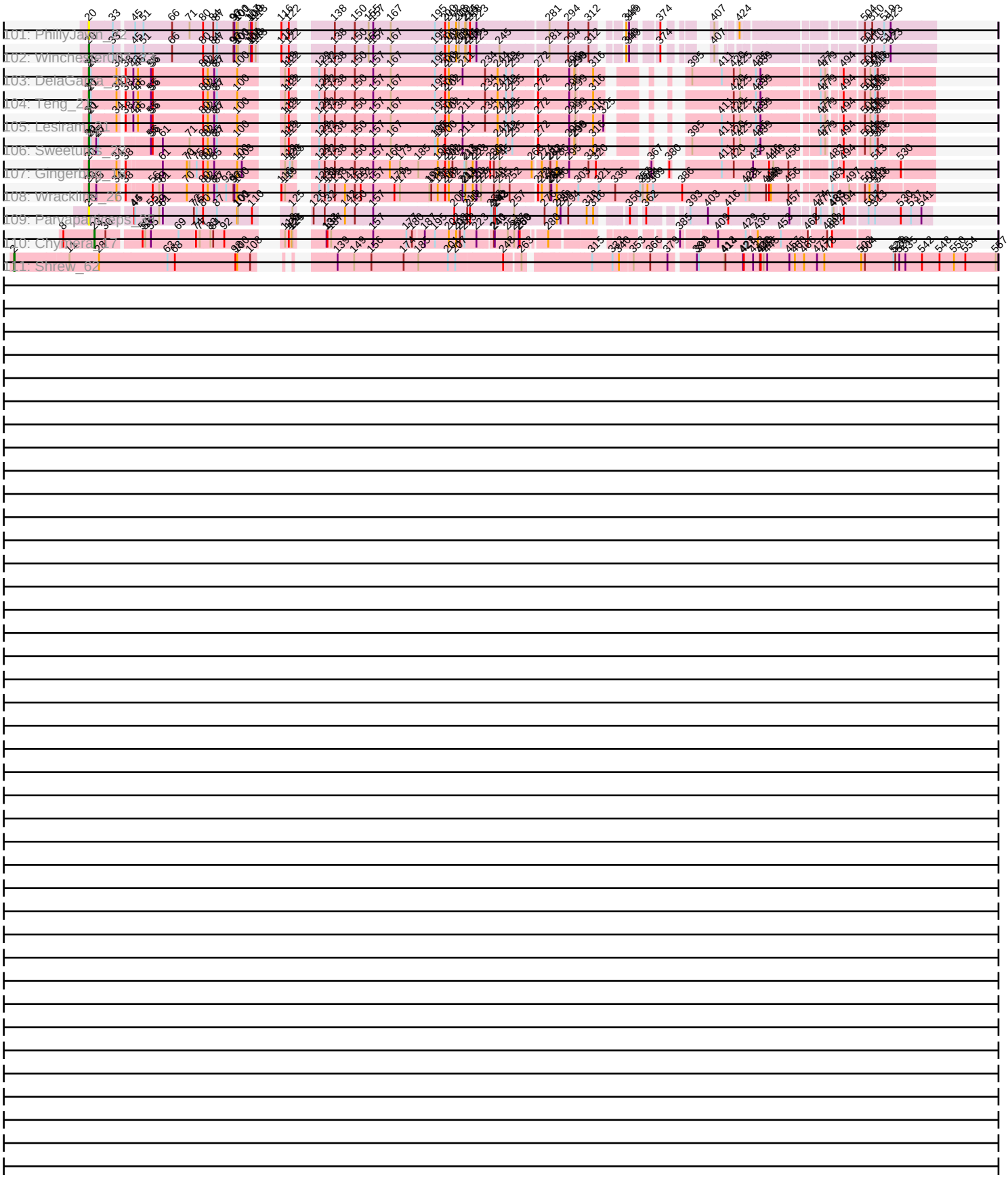
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101: PhillyJaxon_332
102: Winchester_38
103: DelaGarza_38
104: Teng_2
105: Lesiram_20
106: Sweetums_38
107: Gingerdog_38
108: Wrackingball_26
109: Pantapan_Cops_45
110: Chyllera_87
111: Shrew_62

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 347288 Report

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

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

Pham number 347288 has 186 members, 24 are drafts.

Phages represented in each track:
- Track 1 : Brynnie_16
- Track 2 : Zixiang_16, Niblet_16, Chicken_16
- Track 3 : Amanises_17, Shen_17
- Track 4 : Vulpecula_16
- Track 5 : Eesa_16
- Track 6 : Pelletreau_17, Gravel_17, KendraB23_17, Toad24_17
- Track 7 : Ruchi_16
- Track 8 : Chickaboom_15, WileyE_15
- Track 9 : Jamun_16
- Track 10 : Basilisk_16
- Track 11 : Westrich_17
- Track 12 : TaylorSipht_16
- Track 13 : Orcanus_16
- Track 14 : Cygnet_16
- Track 15 : OtsoOtso_16, Melons_17, BadWillHunting_17, Pineda_17, Amelia_17, Polka_16, Cote_17, Bedetta_17, PhirstandPhine_17, Lunar_17, Daob_17, Damocles_17, Coral_16, Colusalem_16, Kepler_16, GramZayde_16, Jerole_17
- Track 16 : LittleTokyo_16
- Track 17 : Kuleana_16
- Track 18 : Bibble12_17, HannahPhantana_17
- Track 19 : Antrice_16
- Track 20 : Zhuangyuan_17
- Track 21 : Amphitrite_15
- Track 22 : Fingolfin_15, Juno112_15, DanHam62_15, AdoptaAdorbs_15, Atlantica_15, RedFox_15
- Track 23 : HamCheese_15, PhluffyCoco_15, Camara_15, Laphuphu24k_14
- Track 24 : Glotell_15, Oppalora_15, KHumphrey_15, AmiCi24_15
- Track 25 : Renna12_16
- Track 26 : StuartMinion_15, AlexMinion_15
- Track 27 : Leona_15, Azaz_15, Rattail_15
- Track 28 : Babushka_15
- Track 29 : Andrew_16
- Track 30 : phiBT1_43

• Track 31 : Vash_12
• Track 32 : Lilbooboo_12
• Track 33 : TG1_12
• Track 34 : Samora_12
• Track 35 : Euratis_12
• Track 36 : Shawty_12
• Track 37 : Sebastisaurus_12
• Track 38 : Heather_12
• Track 39 : RemusLoopin_12
• Track 40 : Tubberson_16, DaRealMyers_16
• Track 41 : SoJo_16
• Track 42 : SV1_16
• Track 43 : Ididsumtinwong_16, Bioscum_16
• Track 44 : Austintatious_16, Lishka_16
• Track 45 : PapayaSalad_16
• Track 46 : Krampus_29, SafetyGuy_29, Cybele_29, Anakin_29, Rachella_29, Kate_29, AnnaSerena_29, Potty_29, Tedro_29, OverHedge_29, NarutoRun_29, Neptune_29, Tiggy93_29
• Track 47 : JDawG_28
• Track 48 : Sparcetus_30, LordBart_30, Kors_30
• Track 49 : Hiddenleaf_28, FreddieHg_28, Chivey_28
• Track 50 : Dauntless_28, Erudite_28
• Track 51 : FountainFog_28
• Track 52 : Haunter_29
• Track 53 : JingleBells_28
• Track 54 : Snakehole_29
• Track 55 : TinyMiny_30
• Track 56 : Pharpay_29, CoolCookie_29, OhDear_29, Gilda_29, Artiphact_29, PhunaPhoke_29
• Track 57 : Karate_28
• Track 58 : Ajin_30
• Track 59 : DannyDe_28, SilentWarrior_28
• Track 60 : Poultress_28
• Track 61 : Crestdrop_28
• Track 62 : Rie18_29
• Track 63 : Aesir_28
• Track 64 : Hager_30
• Track 65 : Bramble_30
• Track 66 : WinnieLou_30
• Track 67 : Annapurna_28
• Track 68 : MortySmith_27
• Track 69 : Tongui_28
• Track 70 : RikSengupta_30
• Track 71 : TurboVicky_19
• Track 72 : Sucha_16
• Track 73 : Johann_20, Goodman_20
• Track 74 : Cicada_21
• Track 75 : Htur_19, Linayshia_19, Rasovi_19
• Track 76 : Jera_20
• Track 77 : IndiRoo_19
• Track 78 : FireCastle_19
• Track 79 : AyoTeo_21, Labella_21, Typher_21
• Track 80 : SBlackberry_19, Rootkit7_19, Alove_19

• Track 81 : Benry_19
• Track 82 : Milani_20
• Track 83 : Zanella_19
• Track 84 : Olympi_21
• Track 85 : PermaG_20
• Track 86 : Phingu_24
• Track 87 : Losacky_23, Antuna_22, Violeta_23, MenE_22
• Track 88 : ScoobySnack_20
• Track 89 : Bush_22
• Track 90 : CookieDog_22
• Track 91 : Blett_22
• Track 92 : Carrillo_23
• Track 93 : NCRodriguez_23
• Track 94 : Guzman_23
• Track 95 : Phonegingi_21
• Track 96 : Warren_22
• Track 97 : Pickles13_21
• Track 98 : Dropshot_21, Appa_21
• Track 99 : Mariel_23
• Track 100 : Jakelyne_23
• Track 101 : PhillyJawn_22
• Track 102 : Winchester007_23
• Track 103 : DelaGarza_20
• Track 104 : Teng_21
• Track 105 : Lesiram_21
• Track 106 : Sweetums_22
• Track 107 : Gingerbug_18
• Track 108 : Wrackline_26
• Track 109 : Parvaparticeps_35
• Track 110 : Chymera_17
• Track 111 : Shrew_62

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

The start number called the most often in the published annotations is 12, it was called in 52 of the 162 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AdoptaAdorbs_15, AlexMinion_15, Amanises_17, Amelia_17, AmiCi24_15, Amphitrite_15, Antrice_16, Atlantica_15, Azaz_15, Babushka_15, BadWillHunting_17, Basilisk_16, Bedetta_17, Bibble12_17, Brynnie_16, Camara_15, Chickaboom_15, Chicken_16, Colusalem_16, Coral_16, Cote_17, Cygnet_16, Damocles_17, DanHam62_15, Daob_17, Eesa_16, Fingolfin_15, Glotell_15, GramZayde_16, Gravel_17, HamCheese_15, HannahPhantana_17, Jamun_16, Jerole_17, Juno112_15, KHumphrey_15, KendraB23_17, Kepler_16, Laphuphu24k_14, Leona_15, LittleTokyo_16, Lunar_17, Melons_17, Niblet_16, Oppalora_15, Orcanus_16, OtsoOtso_16, Pelletreau_17, PhirstandPhine_17, PhluffyCoco_15, Pineda_17, Polka_16, Rattail_15, RedFox_15, Renna12_16, Ruchi_16, Shen_17, StuartMinion_15, TaylorSipht_16, Toad24_17, Vulpecula_16, Westrich_17, WileyE_15, Zhuangyuan_17, Zixiang_16,

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

Genes that do not have the "Most Annotated" start:
• Aesir_28, Ajin_30, Alove_19, Anakin_29, Andrew_16, AnnaSerena_29, Annapurna_28, Antuna_22, Appa_21, Artiphact_29, Austintatious_16, AyoTeo_21, Benry_19, Bioscum_16, Blett_22, Bramble_30, Bush_22, Carrillo_23, Chivey_28, Chymera_17, Cicada_21, CookieDog_22, CoolCookie_29, Crestdrop_28, Cybele_29, DaRealMyers_16, DannyDe_28, Dauntless_28, DelaGarza_20, Dropshot_21, Erudite_28, Euratis_12, FireCastle_19, FountainFog_28, FreddieHg_28, Gilda_29, Gingerbug_18, Goodman_20, Guzman_23, Hager_30, Haunter_29, Heather_12, Hiddenleaf_28, Htur_19, Ididsumtinwong_16, IndiRoo_19, JDawG_28, Jakelyne_23, Jera_20, JingleBells_28, Johann_20, Karate_28, Kate_29, Kors_30, Krampus_29, Kuleana_16, Labella_21, Lesiram_21, Lilbooboo_12, Linayshia_19, Lishka_16, LordBart_30, Losacky_23, Mariel_23, MenE_22, Milani_20, MortySmith_27, NCRodriguez_23, NarutoRun_29, Neptune_29, OhDear_29, Olympi_21, OverHedge_29, PapayaSalad_16, Parvaparticeps_35, PermaG_20, Pharpay_29, PhillyJawn_22, Phingu_24, Phonegingi_21, PhunaPhoke_29, Pickles13_21, Potty_29, Poultress_28, Rachella_29, Rasovi_19, RemusLoopin_12, Rie18_29, RikSengupta_30, Rootkit7_19, SBlackberry_19, SV1_16, SafetyGuy_29, Samora_12, ScoobySnack_20, Sebastisaurus_12, Shawty_12, Shrew_62, SilentWarrior_28, Snakehole_29, SoJo_16, Sparcetus_30, Sucha_16, Sweetums_22, TG1_12, Tedro_29, Teng_21, Tiggy93_29, TinyMiny_30, Tongui_28, Tubberson_16, TurboVicky_19, Typher_21, Vash_12, Violeta_23, Warren_22, Winchester007_23, WinnieLou_30, Wrackline_26, Zanella_19, phiBT1_43,

Summary by start number:

Start 1:
• Found in 48 of 186 (25.8%) of genes in pham
• Manual Annotations of this start: 44 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aesir_28 (EF), Ajin_30 (EF), Anakin_29 (EF), AnnaSerena_29 (EF), Annapurna_28 (EF), Artiphact_29 (EF), Bramble_30 (EF), Chivey_28 (EF), CoolCookie_29 (EF), Crestdrop_28 (EF), Cybele_29 (EF), DannyDe_28 (EF), Dauntless_28 (EF), Erudite_28 (EF), FountainFog_28 (EF), FreddieHg_28 (EF), Gilda_29 (EF), Hager_30 (EF), Haunter_29 (EF), Hiddenleaf_28 (EF), JDawG_28 (EF), JingleBells_28 (EF), Karate_28 (EF), Kate_29 (EF), Kors_30 (EF), Krampus_29 (EF), LordBart_30 (EF), MortySmith_27 (EF), NarutoRun_29 (EF), Neptune_29 (EF), OhDear_29 (EF), OverHedge_29 (EF), Pharpay_29 (EF), PhunaPhoke_29 (EF), Potty_29 (EF), Poultress_28 (EF), Rachella_29 (EF), Rie18_29 (EF), RikSengupta_30 (EF), SafetyGuy_29 (EF), SilentWarrior_28 (EF), Snakehole_29 (EF), Sparcetus_30 (EF), Tedro_29 (EF), Tiggy93_29 (EF), TinyMiny_30 (EF), Tongui_28 (EF), WinnieLou_30 (EF),

Start 2:
• Found in 1 of 186 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shrew_62 (singleton),

Start 3:

• Found in 9 of 186 (4.8%) of genes in pham
• Manual Annotations of this start: 9 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_16 (BC3), Bioscum_16 (BC3), DaRealMyers_16 (BC1), Ididsumtinwong_16 (BC3), Lishka_16 (BC3), PapayaSalad_16 (BC3), SV1_16 (BC1), SoJo_16 (BC1), Tubberson_16 (BC1),

Start 12:
• Found in 65 of 186 (34.9%) of genes in pham
• Manual Annotations of this start: 52 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_15 (AS3), AlexMinion_15 (AS3), Amanises_17 (AS1), Amelia_17 (AS2), AmiCi24_15 (AS3), Amphitrite_15 (AS3), Antrice_16 (AS2), Atlantica_15 (AS3), Azaz_15 (AS3), Babushka_15 (AS3), BadWillHunting_17 (AS2), Basilisk_16 (AS1), Bedetta_17 (AS2), Bibble12_17 (AS2), Brynnie_16 (AS1), Camara_15 (AS3), Chickaboom_15 (AS1), Chicken_16 (AS1), Colusalem_16 (AS2), Coral_16 (AS2), Cote_17 (AS2), Cygnet_16 (AS2), Damocles_17 (AS2), DanHam62_15 (AS3), Daob_17 (AS2), Eesa_16 (AS1), Fingolfin_15 (AS3), Glotell_15 (AS3), GramZayde_16 (AS2), Gravel_17 (AS1), HamCheese_15 (AS3), HannahPhantana_17 (AS2), Jamun_16 (AS1), Jerole_17 (AS2), Juno112_15 (AS3), KHumphrey_15 (AS3), KendraB23_17 (AS1), Kepler_16 (AS2), Laphuphu24k_14 (AS3), Leona_15 (AS3), LittleTokyo_16 (AS2), Lunar_17 (AS2), Melons_17 (AS2), Niblet_16 (AS1), Oppalora_15 (AS3), Orcanus_16 (AS1), OtsoOtso_16 (AS2), Pelletreau_17 (AS1), PhirstandPhine_17 (AS2), PhluffyCoco_15 (AS3), Pineda_17 (AS2), Polka_16 (AS2), Rattail_15 (AS3), RedFox_15 (AS3), Renna12_16 (AS3), Ruchi_16 (AS1), Shen_17 (AS1), StuartMinion_15 (AS3), TaylorSipht_16 (AS1), Toad24_17 (AS1), Vulpecula_16 (AS1), Westrich_17 (AS1), WileyE_15 (AS1), Zhuangyuan_17 (AS2), Zixiang_16 (AS1),

Start 13:
• Found in 2 of 186 (1.1%) of genes in pham
• Manual Annotations of this start: 2 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Andrew_16 (AS3), Kuleana_16 (AS2),

Start 19:
• Found in 10 of 186 (5.4%) of genes in pham
• Manual Annotations of this start: 9 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Euratis_12 (BB1), Heather_12 (BB2), Lilbooboo_12 (BB1), RemusLoopin_12 (BB2), Samora_12 (BB1), Sebastisaurus_12 (BB2), Shawty_12 (BB1), TG1_12 (BB1), Vash_12 (BB1), phiBT1_43 (BB1),

Start 20:
• Found in 85 of 186 (45.7%) of genes in pham
• Manual Annotations of this start: 23 of 162
• Called 32.9% of time when present
• Phage (with cluster) where this start called: Antuna_22 (GA), Appa_21 (GA), Blett_22 (GA), Bush_22 (GA), Carrillo_23 (GA), CookieDog_22 (GA), DelaGarza_20 (GF), Dropshot_21 (GA), Gingerbug_18 (GF), Guzman_23 (GA), Jakelyne_23 (GA), Lesiram_21 (GF), Losacky_23 (GA), Mariel_23 (GA), MenE_22 (GA), NCRodriguez_23 (GA), Parvaparticeps_35 (UNK), PhillyJawn_22 (GA), Phingu_24 (GA), Phonegingi_21 (GA), Pickles13_21 (GA), ScoobySnack_20 (GA),

Sweetums_22 (GF), Teng_21 (GF), Violeta_23 (GA), Warren_22 (GA), Winchester007_23 (GA), Wrackline_26 (GF),

Start 23:
• Found in 1 of 186 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 162
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chymera_17 (singleton),

Start 33:
• Found in 43 of 186 (23.1%) of genes in pham
• Manual Annotations of this start: 21 of 162
• Called 51.2% of time when present
• Phage (with cluster) where this start called: Alove_19 (EJ), AyoTeo_21 (EJ), Benry_19 (EJ), Cicada_21 (EJ), FireCastle_19 (EJ), Goodman_20 (EJ), Htur_19 (EJ), IndiRoo_19 (EJ), Jera_20 (EJ), Johann_20 (EJ), Labella_21 (EJ), Linayshia_19 (EJ), Milani_20 (EJ), Olympi_21 (EJ), PermaG_20 (EJ), Rasovi_19 (EJ), Rootkit7_19 (EJ), SBlackberry_19 (EJ), Sucha_16 (EJ), TurboVicky_19 (EJ), Typher_21 (EJ), Zanella_19 (EJ),

Summary by clusters:

There are 13 clusters represented in this pham: AS3, AS2, AS1, EJ, EF, singleton, BB2, GF, GA, UNK, BC1, BB1, BC3,

Info for manual annotations of cluster AS1:
•Start number 12 was manually annotated 16 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 12 was manually annotated 18 times for cluster AS2.
•Start number 13 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 12 was manually annotated 18 times for cluster AS3.
•Start number 13 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster BB1:
•Start number 19 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 19 was manually annotated 3 times for cluster BB2.

Info for manual annotations of cluster BC1:
•Start number 3 was manually annotated 4 times for cluster BC1.

Info for manual annotations of cluster BC3:
•Start number 3 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster EF:
•Start number 1 was manually annotated 44 times for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 33 was manually annotated 21 times for cluster EJ.

Info for manual annotations of cluster GA:
•Start number 20 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 20 was manually annotated 6 times for cluster GF.

Gene Information:

Gene: AdoptaAdorbs_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for AdoptaAdorbs_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (444, 11567), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: Aesir_28 Start: 14656, Stop: 17532, Start Num: 1
Candidate Starts for Aesir_28:
(Start: 1 @14656 has 44 MA's), (11, 14839), (18, 14890), (22, 14908), (28, 14932), (35, 15007), (45, 15046), (66, 15166), (68, 15175), (69, 15187), (73, 15235), (86, 15301), (130, 15472), (131, 15481), (139, 15523), (166, 15688), (169, 15700), (172, 15712), (181, 15763), (184, 15775), (185, 15778), (210, 15913), (248, 16054), (251, 16069), (258, 16102), (261, 16111), (303, 16297), (311, 16327), (324, 16372), (327, 16381), (330, 16396), (336, 16414), (337, 16417), (343, 16438), (345, 16441), (349, 16459), (358, 16501), (359, 16504), (360, 16507), (366, 16528), (376, 16561), (386, 16606), (394, 16636), (407, 16711), (418, 16768), (432, 16825), (434, 16837), (446, 16885), (447, 16888), (473, 17020), (502, 17173), (505, 17188), (512, 17215), (521, 17254), (528, 17284), (536, 17317), (539, 17347), (549, 17422), (551, 17479), (552, 17482), (553, 17488), (556, 17524),

Gene: Ajin_30 Start: 14799, Stop: 17618, Start Num: 1
Candidate Starts for Ajin_30:
(Start: 1 @14799 has 44 MA's), (6, 14919), (10, 14979), (18, 15033), (28, 15075), (35, 15150), (45, 15189), (61, 15279), (71, 15363), (73, 15378), (76, 15384), (89, 15456), (98, 15507), (100, 15513), (107, 15552), (139, 15666), (150, 15720), (158, 15783), (165, 15822), (166, 15831), (175, 15876), (185, 15921), (210, 16056), (238, 16161), (243, 16176), (245, 16182), (246, 16185), (249, 16203), (250, 16206), (261, 16224), (303, 16377), (318, 16428), (322, 16446), (327, 16461), (328, 16473), (330, 16476), (356, 16569), (359, 16584), (361, 16593), (366, 16608), (372, 16626), (373, 16629), (376, 16641), (386, 16686), (403, 16770), (425, 16872), (431, 16902), (446, 16965), (447, 16968), (450, 16980), (487, 17166), (495, 17202), (502, 17253), (512, 17295), (521, 17334), (528, 17364), (536, 17397), (539, 17427), (545, 17466), (552, 17565), (553, 17571), (555, 17595),

Gene: AlexMinion_15 Start: 9820, Stop: 12108, Start Num: 12
Candidate Starts for AlexMinion_15:
(Start: 12 @9820 has 52 MA's), (16, 9853), (18, 9862), (Start: 20 @9871 has 23 MA's), (40, 9973), (51, 10015), (70, 10153), (81, 10207), (107, 10351), (112, 10369), (120, 10393), (127, 10435), (140, 10516), (141, 10519), (142, 10528), (144, 10540), (147, 10549), (168, 10660), (174, 10690), (182, 10729), (211, 10858), (218, 10882), (224, 10903), (246, 10975), (247, 10981), (252, 11005), (266, 11059), (267, 11062), (268, 11071), (282, 11119), (286, 11140), (343, 11305), (427, 11524), (430,

11536), (444, 11599), (466, 11710), (480, 11776), (488, 11788), (492, 11809), (506, 11881), (507, 11884), (531, 11986), (540, 12043), (546, 12097), (547, 12100),

Gene: Alove_19 Start: 13340, Stop: 15328, Start Num: 33
Candidate Starts for Alove_19:
(Start: 33 @13340 has 21 MA's), (38, 13379), (60, 13490), (62, 13505), (65, 13517), (100, 13709), (104, 13733), (151, 13916), (162, 13982), (179, 14078), (184, 14102), (200, 14189), (223, 14291), (233, 14315), (249, 14384), (261, 14417), (326, 14582), (343, 14615), (378, 14642), (381, 14660), (410, 14762), (412, 14774), (413, 14780), (432, 14861), (475, 15035), (490, 15101), (500, 15161), (501, 15170), (536, 15302),

Gene: Amanises_17 Start: 10381, Stop: 12531, Start Num: 12
Candidate Starts for Amanises_17:
(Start: 12 @10381 has 52 MA's), (16, 10417), (Start: 20 @10435 has 23 MA's), (24, 10456), (51, 10576), (59, 10627), (76, 10747), (94, 10843), (107, 10912), (112, 10930), (120, 10954), (127, 10996), (140, 11077), (141, 11080), (142, 11089), (144, 11101), (168, 11221), (174, 11251), (183, 11293), (209, 11407), (211, 11419), (222, 11455), (245, 11533), (247, 11542), (268, 11632), (282, 11680), (286, 11701), (294, 11734), (311, 11794), (406, 11863), (409, 11878), (442, 12019), (466, 12139), (492, 12238), (510, 12325), (531, 12409), (540, 12466), (546, 12520),

Gene: Amelia_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Amelia_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: AmiCi24_15 Start: 9786, Stop: 12074, Start Num: 12
Candidate Starts for AmiCi24_15:
(Start: 12 @9786 has 52 MA's), (14, 9798), (16, 9819), (18, 9828), (Start: 20 @9837 has 23 MA's), (40, 9939), (51, 9981), (70, 10119), (81, 10173), (84, 10203), (105, 10305), (107, 10317), (112, 10335), (120, 10359), (125, 10380), (127, 10401), (140, 10482), (141, 10485), (142, 10494), (144, 10506), (168, 10626), (174, 10656), (183, 10698), (211, 10824), (218, 10848), (224, 10869), (239, 10917), (243, 10929), (246, 10941), (248, 10950), (254, 10977), (264, 11013), (266, 11025), (267, 11028), (268, 11037), (282, 11085), (286, 11106), (343, 11271), (410, 11418), (411, 11427), (427, 11490), (430, 11502), (444, 11565), (468, 11688), (484, 11748), (488, 11754), (492, 11775), (507, 11850), (546, 12066),

Gene: Amphitrite_15 Start: 9786, Stop: 12074, Start Num: 12
Candidate Starts for Amphitrite_15:
(Start: 12 @9786 has 52 MA's), (14, 9798), (16, 9819), (18, 9828), (Start: 20 @9837 has 23 MA's), (40, 9939), (51, 9981), (70, 10119), (81, 10173), (84, 10203), (105, 10305), (107, 10317), (112, 10335), (120, 10359), (125, 10380), (127, 10401), (140, 10482), (141, 10485), (142, 10494), (144, 10506), (168, 10626), (174, 10656), (183, 10698), (211, 10824), (218, 10848), (224, 10869), (239, 10917), (243, 10929), (246, 10941), (248, 10950), (254, 10977), (264, 11013), (266, 11025), (267, 11028), (268, 11037), (282, 11085), (286, 11106), (343, 11271), (410, 11418), (411, 11427), (427, 11490), (430, 11502), (444, 11565), (454, 11613), (468, 11688), (484, 11748), (488, 11754), (492, 11775), (546, 12066),

Gene: Anakin_29 Start: 14910, Stop: 17786, Start Num: 1
Candidate Starts for Anakin_29:
(Start: 1 @14910 has 44 MA's), (11, 15093), (18, 15144), (22, 15162), (28, 15186), (35, 15261), (41, 15285), (45, 15300), (66, 15420), (69, 15441), (73, 15489), (86, 15555), (130, 15726), (131, 15735), (138, 15768), (139, 15777), (143, 15810), (166, 15942), (169, 15954), (172, 15966), (184, 16029), (190, 16065), (212, 16179), (248, 16308), (251, 16323), (258, 16356), (261, 16365), (303, 16551), (321, 16617), (327, 16635), (330, 16650), (336, 16668), (337, 16671), (343, 16692), (345, 16695), (356, 16743), (365, 16779), (366, 16782), (376, 16815), (386, 16860), (400, 16926), (402, 16935), (423, 17043), (432, 17079), (434, 17091), (446, 17139), (447, 17142), (473, 17274), (502, 17427), (505, 17442), (512, 17469), (521, 17508), (528, 17538), (536, 17571), (539, 17601), (549, 17676), (552, 17736), (553, 17742), (555, 17766), (556, 17778),

Gene: Andrew_16 Start: 10166, Stop: 12529, Start Num: 13
Candidate Starts for Andrew_16:
(Start: 13 @10166 has 2 MA's), (16, 10199), (36, 10328), (42, 10358), (48, 10379), (49, 10385), (54, 10409), (71, 10541), (76, 10565), (80, 10583), (94, 10661), (101, 10694), (107, 10730), (109, 10736), (113, 10751), (116, 10760), (125, 10796), (132, 10850), (133, 10856), (139, 10892), (140, 10901), (142, 10913), (150, 10943), (157, 10997), (165, 11042), (175, 11099), (182, 11135), (188, 11168), (192, 11180), (211, 11279), (216, 11294), (222, 11315), (236, 11363), (254, 11432), (256, 11438), (266, 11480), (268, 11492), (275, 11516), (282, 11540), (289, 11573), (290, 11576), (343, 11726), (410, 11873), (411, 11882), (412, 11885), (417, 11906), (427, 11945), (431, 11966), (442, 12011), (444, 12020), (450, 12044), (466, 12131), (468, 12143), (486, 12206), (492, 12230), (518, 12347), (526, 12389), (531, 12407), (539, 12452), (544, 12497), (546, 12518),

Gene: AnnaSerena_29 Start: 14919, Stop: 17795, Start Num: 1
Candidate Starts for AnnaSerena_29:
(Start: 1 @14919 has 44 MA's), (11, 15102), (18, 15153), (22, 15171), (28, 15195), (35, 15270), (41, 15294), (45, 15309), (66, 15429), (69, 15450), (73, 15498), (86, 15564), (130, 15735), (131, 15744), (138, 15777), (139, 15786), (143, 15819), (166, 15951), (169, 15963), (172, 15975), (184, 16038), (190, 16074), (212, 16188), (248, 16317), (251, 16332), (258, 16365), (261, 16374), (303, 16560), (321, 16626), (327, 16644), (330, 16659), (336, 16677), (337, 16680), (343, 16701), (345, 16704), (356, 16752), (365, 16788), (366, 16791), (376, 16824), (386, 16869), (400, 16935), (402, 16944), (423, 17052), (432, 17088), (434, 17100), (446, 17148), (447, 17151), (473, 17283), (502, 17436), (505, 17451), (512, 17478), (521, 17517), (528, 17547), (536, 17580), (539, 17610), (549, 17685), (552, 17745), (553, 17751), (555, 17775), (556, 17787),

Gene: Annapurna_28 Start: 14118, Stop: 16994, Start Num: 1
Candidate Starts for Annapurna_28:
(Start: 1 @14118 has 44 MA's), (11, 14301), (18, 14352), (22, 14370), (28, 14394), (35, 14469), (45, 14508), (66, 14628), (68, 14637), (69, 14649), (73, 14697), (86, 14763), (130, 14934), (131, 14943), (139, 14985), (166, 15150), (169, 15162), (172, 15174), (181, 15225), (184, 15237), (185, 15240), (248, 15516), (251, 15531), (258, 15564), (261, 15573), (303, 15759), (311, 15789), (324, 15834), (327, 15843), (330, 15858), (336, 15876), (337, 15879), (343, 15900), (345, 15903), (349, 15921), (358, 15963), (359, 15966), (360, 15969), (366, 15990), (376, 16023), (386, 16068), (394, 16098), (407, 16173), (418, 16230), (432, 16287), (434, 16299), (446, 16347), (447, 16350), (473, 16482), (502, 16635), (505, 16650), (512, 16677), (521, 16716), (528, 16746), (536, 16779), (539, 16809), (549, 16884), (551, 16941), (552, 16944), (553, 16950), (556, 16986),

Gene: Antrice_16 Start: 10127, Stop: 12421, Start Num: 12
Candidate Starts for Antrice_16:
(Start: 12 @10127 has 52 MA's), (16, 10163), (18, 10172), (Start: 20 @10181 has 23 MA's), (48, 10316), (52, 10331), (69, 10442), (81, 10520), (84, 10550), (92, 10583), (105, 10652), (107, 10664), (120, 10706), (127, 10748), (142, 10841), (144, 10853), (145, 10856), (161, 10928), (168, 10973),

(174, 11003), (177, 11012), (211, 11171), (219, 11198), (236, 11255), (243, 11276), (248, 11297), (252, 11318), (268, 11384), (274, 11405), (282, 11432), (289, 11465), (290, 11468), (296, 11498), (343, 11618), (405, 11744), (411, 11774), (417, 11798), (427, 11837), (431, 11858), (434, 11873), (448, 11927), (466, 12023), (468, 12035), (480, 12089), (488, 12101), (492, 12122), (504, 12185), (507, 12197), (511, 12212), (515, 12224), (538, 12332), (544, 12389),

Gene: Antuna_22 Start: 11505, Stop: 13703, Start Num: 20
Candidate Starts for Antuna_22:
(Start: 20 @11505 has 23 MA's), (Start: 33 @11580 has 21 MA's), (45, 11631), (51, 11658), (66, 11751), (71, 11808), (80, 11850), (84, 11883), (87, 11895), (96, 11946), (97, 11949), (100, 11958), (101, 11961), (107, 11997), (109, 12003), (110, 12006), (113, 12018), (116, 12027), (122, 12051), (138, 12150), (150, 12210), (155, 12249), (157, 12264), (167, 12321), (195, 12459), (200, 12489), (202, 12501), (208, 12525), (209, 12534), (214, 12555), (215, 12558), (218, 12570), (223, 12588), (236, 12630), (245, 12660), (281, 12801), (294, 12858), (312, 12924), (346, 12984), (349, 12993), (374, 13056), (407, 13122), (504, 13473), (510, 13497), (519, 13536), (523, 13557),

Gene: Appa_21 Start: 11367, Stop: 13565, Start Num: 20
Candidate Starts for Appa_21:
(Start: 20 @11367 has 23 MA's), (Start: 33 @11442 has 21 MA's), (45, 11493), (51, 11520), (66, 11613), (71, 11670), (80, 11712), (84, 11745), (87, 11757), (96, 11808), (97, 11811), (100, 11820), (101, 11823), (107, 11859), (109, 11865), (110, 11868), (113, 11880), (116, 11889), (122, 11913), (138, 12012), (150, 12072), (155, 12111), (157, 12126), (167, 12183), (195, 12321), (200, 12351), (202, 12363), (208, 12387), (209, 12396), (214, 12417), (215, 12420), (218, 12432), (223, 12450), (236, 12492), (245, 12522), (281, 12663), (294, 12720), (312, 12786), (346, 12846), (349, 12855), (374, 12918), (407, 12984), (424, 13017), (504, 13335), (510, 13359), (519, 13398), (523, 13419),

Gene: Artiphact_29 Start: 14911, Stop: 17787, Start Num: 1
Candidate Starts for Artiphact_29:
(Start: 1 @14911 has 44 MA's), (11, 15094), (18, 15145), (22, 15163), (28, 15187), (35, 15262), (41, 15286), (45, 15301), (66, 15421), (69, 15442), (73, 15490), (86, 15556), (130, 15727), (131, 15736), (138, 15769), (139, 15778), (143, 15811), (166, 15943), (169, 15955), (172, 15967), (184, 16030), (190, 16066), (212, 16180), (248, 16309), (251, 16324), (258, 16357), (261, 16366), (303, 16552), (321, 16618), (327, 16636), (330, 16651), (336, 16669), (337, 16672), (343, 16693), (345, 16696), (356, 16744), (365, 16780), (366, 16783), (376, 16816), (386, 16861), (400, 16927), (402, 16936), (432, 17080), (434, 17092), (446, 17140), (447, 17143), (473, 17275), (502, 17428), (505, 17443), (512, 17470), (521, 17509), (528, 17539), (536, 17572), (539, 17602), (549, 17677), (552, 17737), (553, 17743), (555, 17767), (556, 17779),

Gene: Atlantica_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for Atlantica_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (444, 11567), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: Austintatious_16 Start: 9780, Stop: 12197, Start Num: 3
Candidate Starts for Austintatious_16:
(Start: 3 @9780 has 9 MA's), (5, 9792), (7, 9846), (9, 9867), (52, 10041), (55, 10062), (64, 10119), (69, 10152), (83, 10254), (92, 10296), (100, 10338), (101, 10341), (103, 10353), (123, 10431), (132, 10494), (142, 10557), (146, 10575), (150, 10587), (157, 10641), (159, 10650), (166, 10695), (167,

10698), (185, 10779), (201, 10866), (202, 10869), (212, 10917), (217, 10935), (222, 10953), (225, 10965), (257, 11076), (269, 11133), (279, 11169), (284, 11190), (291, 11223), (293, 11229), (302, 11262), (309, 11283), (319, 11316), (338, 11340), (403, 11538), (458, 11796), (463, 11817), (472, 11841), (476, 11862), (493, 11916), (507, 11982), (510, 11994), (521, 12039),

Gene: AyoTeo_21 Start: 13467, Stop: 15455, Start Num: 33
Candidate Starts for AyoTeo_21:
(Start: 33 @13467 has 21 MA's), (38, 13506), (60, 13617), (62, 13632), (65, 13644), (100, 13836), (104, 13860), (126, 13902), (151, 14043), (162, 14109), (179, 14205), (200, 14316), (223, 14418), (233, 14442), (249, 14511), (261, 14544), (326, 14709), (343, 14742), (376, 14757), (378, 14769), (381, 14787), (412, 14901), (413, 14907), (475, 15162), (490, 15228), (500, 15288), (536, 15429),

Gene: Azaz_15 Start: 9839, Stop: 12127, Start Num: 12
Candidate Starts for Azaz_15:
(Start: 12 @9839 has 52 MA's), (14, 9851), (16, 9872), (18, 9881), (Start: 20 @9890 has 23 MA's), (40, 9992), (51, 10034), (70, 10172), (81, 10226), (84, 10256), (107, 10370), (112, 10388), (120, 10412), (125, 10433), (127, 10454), (140, 10535), (141, 10538), (142, 10547), (144, 10559), (168, 10679), (174, 10709), (183, 10751), (211, 10877), (218, 10901), (224, 10922), (246, 10994), (254, 11030), (264, 11066), (266, 11078), (268, 11090), (274, 11111), (282, 11138), (286, 11159), (343, 11324), (410, 11471), (411, 11480), (427, 11543), (430, 11555), (444, 11618), (468, 11741), (484, 11801), (488, 11807), (492, 11828), (507, 11903), (546, 12119),

Gene: Babushka_15 Start: 9836, Stop: 12124, Start Num: 12
Candidate Starts for Babushka_15:
(Start: 12 @9836 has 52 MA's), (14, 9848), (16, 9869), (18, 9878), (Start: 20 @9887 has 23 MA's), (40, 9989), (51, 10031), (52, 10034), (70, 10169), (72, 10190), (81, 10223), (105, 10355), (107, 10367), (112, 10385), (120, 10409), (125, 10430), (127, 10451), (140, 10532), (141, 10535), (142, 10544), (144, 10556), (168, 10676), (174, 10706), (183, 10748), (211, 10874), (218, 10898), (224, 10919), (239, 10967), (246, 10991), (254, 11027), (264, 11063), (266, 11075), (268, 11087), (274, 11108), (282, 11135), (410, 11468), (411, 11477), (427, 11540), (444, 11615), (492, 11825), (507, 11900), (546, 12116),

Gene: BadWillHunting_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for BadWillHunting_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: Basilisk_16 Start: 10798, Stop: 13203, Start Num: 12
Candidate Starts for Basilisk_16:
(Start: 12 @10798 has 52 MA's), (16, 10834), (Start: 20 @10852 has 23 MA's), (29, 10888), (39, 10963), (49, 11008), (64, 11095), (66, 11107), (91, 11266), (92, 11275), (117, 11383), (118, 11389), (132, 11470), (140, 11524), (148, 11563), (182, 11764), (188, 11800), (200, 11854), (212, 11914), (213, 11917), (220, 11944), (229, 11974), (245, 12028), (254, 12067), (258, 12085), (264, 12103), (274, 12151), (286, 12196), (301, 12256), (304, 12268), (310, 12289), (311, 12292), (329, 12325), (331, 12328), (335, 12334), (339, 12343), (342, 12355), (344, 12361), (348, 12376), (351, 12385), (372, 12439), (377, 12457), (384, 12490), (410, 12559), (411, 12568), (412, 12571), (417, 12592), (426, 12628), (439, 12688), (444, 12706), (492, 12916), (531, 13081), (540, 13138),

Gene: Bedetta_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Bedetta_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: Benry_19 Start: 11509, Stop: 13800, Start Num: 33
Candidate Starts for Benry_19:
(Start: 33 @11509 has 21 MA's), (55, 11626), (60, 11659), (82, 11800), (100, 11878), (104, 11902), (141, 12034), (151, 12085), (158, 12136), (163, 12157), (177, 12235), (184, 12271), (185, 12274), (187, 12295), (199, 12352), (217, 12436), (231, 12481), (233, 12484), (236, 12502), (242, 12520), (248, 12544), (290, 12706), (307, 12772), (318, 12805), (323, 12826), (332, 12859), (333, 12862), (378, 13030), (381, 13048), (388, 13069), (403, 13147), (409, 13180), (431, 13279), (439, 13315), (441, 13321), (448, 13348), (455, 13387), (462, 13432), (465, 13444), (467, 13456), (470, 13465), (471, 13468), (496, 13582), (503, 13633), (504, 13639), (506, 13648),

Gene: Bibble12_17 Start: 10378, Stop: 12513, Start Num: 12
Candidate Starts for Bibble12_17:
(Start: 12 @10378 has 52 MA's), (16, 10411), (17, 10417), (Start: 20 @10429 has 23 MA's), (42, 10534), (53, 10567), (70, 10699), (72, 10720), (95, 10834), (107, 10897), (120, 10939), (125, 10960), (127, 10981), (140, 11062), (141, 11065), (142, 11074), (144, 11086), (145, 11089), (168, 11206), (174, 11236), (183, 11278), (186, 11287), (211, 11404), (220, 11437), (228, 11464), (236, 11488), (240, 11500), (243, 11509), (245, 11518), (254, 11557), (264, 11593), (266, 11605), (268, 11617), (274, 11638), (282, 11665), (289, 11698), (292, 11713), (411, 11875), (417, 11899), (427, 11938), (434, 11974), (457, 12082), (468, 12136), (488, 12202), (492, 12223), (531, 12394), (538, 12427), (539, 12439), (544, 12484), (546, 12505),

Gene: Bioscum_16 Start: 9816, Stop: 12233, Start Num: 3
Candidate Starts for Bioscum_16:
(Start: 3 @9816 has 9 MA's), (5, 9828), (7, 9882), (9, 9903), (52, 10077), (55, 10098), (64, 10155), (69, 10188), (83, 10290), (92, 10332), (100, 10374), (101, 10377), (103, 10389), (123, 10467), (132, 10530), (142, 10593), (146, 10611), (150, 10623), (157, 10677), (159, 10686), (166, 10731), (167, 10734), (185, 10815), (201, 10902), (202, 10905), (212, 10953), (217, 10971), (222, 10989), (225, 11001), (257, 11112), (269, 11169), (279, 11205), (284, 11226), (291, 11259), (293, 11265), (309, 11319), (319, 11352), (338, 11376), (403, 11574), (458, 11832), (463, 11853), (472, 11877), (476, 11898), (493, 11952), (507, 12018), (510, 12030), (521, 12075),

Gene: Blett_22 Start: 11520, Stop: 13718, Start Num: 20
Candidate Starts for Blett_22:
(Start: 20 @11520 has 23 MA's), (Start: 33 @11595 has 21 MA's), (45, 11646), (51, 11673), (66, 11766), (71, 11823), (80, 11865), (84, 11898), (87, 11910), (96, 11961), (97, 11964), (100, 11973), (101, 11976), (107, 12012), (109, 12018), (110, 12021), (113, 12033), (116, 12042), (122, 12066), (138, 12165), (150, 12225), (155, 12264), (157, 12279), (167, 12336), (195, 12474), (200, 12504), (202, 12516), (208, 12540), (209, 12549), (214, 12570), (215, 12573), (218, 12585), (223, 12603), (236, 12645), (245, 12675), (278, 12804), (294, 12873), (312, 12939), (346, 12999), (349, 13008), (374, 13071), (407, 13137), (424, 13170), (504, 13488), (510, 13512), (519, 13551), (523, 13572),

Gene: Bramble_30 Start: 14765, Stop: 17584, Start Num: 1
Candidate Starts for Bramble_30:
(Start: 1 @14765 has 44 MA's), (6, 14885), (10, 14945), (18, 14999), (28, 15041), (35, 15116), (45, 15155), (61, 15245), (71, 15329), (73, 15344), (76, 15350), (89, 15422), (98, 15473), (100, 15479), (107, 15518), (139, 15632), (150, 15686), (158, 15749), (165, 15788), (166, 15797), (175, 15842), (185, 15887), (210, 16022), (238, 16127), (243, 16142), (245, 16148), (246, 16151), (249, 16169), (250, 16172), (261, 16190), (303, 16343), (318, 16394), (322, 16412), (327, 16427), (328, 16439), (330, 16442), (356, 16535), (361, 16559), (366, 16574), (369, 16583), (372, 16592), (373, 16595), (376, 16607), (386, 16652), (403, 16736), (404, 16739), (425, 16838), (431, 16868), (446, 16931), (447, 16934), (450, 16946), (487, 17132), (495, 17168), (502, 17219), (512, 17261), (521, 17300), (528, 17330), (536, 17363), (539, 17393), (545, 17432), (552, 17531), (553, 17537), (555, 17561),

Gene: Brynnie_16 Start: 10610, Stop: 13015, Start Num: 12
Candidate Starts for Brynnie_16:
(Start: 12 @10610 has 52 MA's), (16, 10646), (Start: 20 @10664 has 23 MA's), (29, 10700), (39, 10775), (49, 10820), (64, 10907), (66, 10919), (91, 11078), (92, 11087), (117, 11195), (118, 11201), (132, 11282), (140, 11336), (148, 11375), (164, 11468), (182, 11576), (188, 11612), (200, 11666), (212, 11726), (213, 11729), (220, 11756), (229, 11786), (245, 11840), (254, 11879), (258, 11897), (264, 11915), (274, 11963), (286, 12008), (300, 12065), (301, 12068), (304, 12080), (310, 12101), (311, 12104), (329, 12137), (331, 12140), (335, 12146), (339, 12155), (342, 12167), (344, 12173), (348, 12188), (351, 12197), (372, 12251), (377, 12269), (384, 12302), (410, 12371), (411, 12380), (412, 12383), (417, 12404), (426, 12440), (439, 12500), (444, 12518), (492, 12728), (531, 12893), (540, 12950),

Gene: Bush_22 Start: 11501, Stop: 13699, Start Num: 20
Candidate Starts for Bush_22:
(Start: 20 @11501 has 23 MA's), (Start: 33 @11576 has 21 MA's), (45, 11627), (51, 11654), (66, 11747), (71, 11804), (80, 11846), (84, 11879), (87, 11891), (96, 11942), (97, 11945), (100, 11954), (101, 11957), (107, 11993), (109, 11999), (110, 12002), (113, 12014), (116, 12023), (122, 12047), (138, 12146), (150, 12206), (155, 12245), (157, 12260), (182, 12398), (185, 12404), (195, 12455), (200, 12485), (202, 12497), (208, 12521), (209, 12530), (214, 12551), (215, 12554), (218, 12566), (223, 12584), (236, 12626), (245, 12656), (281, 12797), (294, 12854), (312, 12920), (346, 12980), (349, 12989), (374, 13052), (407, 13118), (424, 13151), (504, 13469), (510, 13493), (519, 13532), (523, 13553),

Gene: Camara_15 Start: 9789, Stop: 12077, Start Num: 12
Candidate Starts for Camara_15:
(Start: 12 @9789 has 52 MA's), (14, 9801), (16, 9822), (18, 9831), (Start: 20 @9840 has 23 MA's), (40, 9942), (51, 9984), (70, 10122), (81, 10176), (84, 10206), (105, 10308), (107, 10320), (112, 10338), (120, 10362), (125, 10383), (127, 10404), (140, 10485), (141, 10488), (142, 10497), (144, 10509), (168, 10629), (174, 10659), (183, 10701), (211, 10827), (218, 10851), (224, 10872), (239, 10920), (243, 10932), (246, 10944), (248, 10953), (254, 10980), (264, 11016), (266, 11028), (267, 11031), (268, 11040), (282, 11088), (286, 11109), (343, 11274), (410, 11421), (411, 11430), (427, 11493), (430, 11505), (444, 11568), (454, 11616), (468, 11691), (484, 11751), (488, 11757), (492, 11778), (507, 11853), (546, 12069),

Gene: Carrillo_23 Start: 11474, Stop: 13672, Start Num: 20
Candidate Starts for Carrillo_23:
(Start: 20 @11474 has 23 MA's), (Start: 33 @11549 has 21 MA's), (45, 11600), (51, 11627), (66, 11720), (71, 11777), (80, 11819), (84, 11852), (87, 11864), (96, 11915), (97, 11918), (100, 11927), (101, 11930), (107, 11966), (109, 11972), (110, 11975), (113, 11987), (116, 11996), (122, 12020), (138, 12119), (150, 12179), (155, 12218), (157, 12233), (167, 12290), (195, 12428), (200, 12458), (202, 12470), (208, 12494), (209, 12503), (214, 12524), (215, 12527), (218, 12539), (223, 12557),

(236, 12599), (245, 12629), (281, 12770), (294, 12827), (312, 12893), (346, 12953), (349, 12962), (374, 13025), (407, 13091), (439, 13172), (504, 13442), (510, 13466), (519, 13505), (523, 13526),

Gene: Chickaboom_15 Start: 10149, Stop: 12554, Start Num: 12
Candidate Starts for Chickaboom_15:
(Start: 12 @10149 has 52 MA's), (16, 10185), (Start: 20 @10203 has 23 MA's), (29, 10239), (39, 10314), (49, 10359), (64, 10446), (66, 10458), (91, 10617), (92, 10626), (117, 10734), (132, 10821), (140, 10875), (148, 10914), (153, 10953), (188, 11151), (200, 11205), (213, 11268), (214, 11271), (220, 11295), (246, 11382), (254, 11418), (286, 11547), (300, 11604), (301, 11607), (311, 11643), (317, 11661), (329, 11676), (331, 11679), (335, 11685), (339, 11694), (342, 11706), (344, 11712), (348, 11727), (351, 11736), (355, 11754), (365, 11778), (372, 11790), (377, 11808), (384, 11841), (410, 11910), (411, 11919), (412, 11922), (417, 11943), (426, 11979), (439, 12039), (444, 12057), (492, 12267), (531, 12432),

Gene: Chicken_16 Start: 10182, Stop: 12410, Start Num: 12
Candidate Starts for Chicken_16:
(Start: 12 @10182 has 52 MA's), (14, 10197), (16, 10218), (29, 10272), (36, 10347), (42, 10377), (43, 10380), (55, 10434), (71, 10560), (76, 10584), (78, 10593), (80, 10602), (93, 10674), (94, 10680), (100, 10710), (101, 10713), (107, 10749), (113, 10770), (119, 10791), (125, 10815), (132, 10869), (133, 10875), (135, 10881), (139, 10911), (140, 10920), (150, 10962), (157, 11016), (165, 11061), (192, 11199), (200, 11241), (206, 11271), (216, 11313), (224, 11343), (246, 11415), (248, 11424), (252, 11445), (268, 11511), (282, 11559), (283, 11562), (290, 11595), (347, 11673), (406, 11742), (434, 11868), (439, 11889), (442, 11898), (484, 12090), (486, 12093), (492, 12117), (531, 12288), (540, 12345), (546, 12399),

Gene: Chivey_28 Start: 14072, Stop: 16948, Start Num: 1
Candidate Starts for Chivey_28:
(Start: 1 @14072 has 44 MA's), (11, 14255), (18, 14306), (22, 14324), (28, 14348), (35, 14423), (41, 14447), (45, 14462), (66, 14582), (69, 14603), (73, 14651), (86, 14717), (130, 14888), (131, 14897), (138, 14930), (139, 14939), (143, 14972), (166, 15104), (169, 15116), (172, 15128), (181, 15179), (190, 15227), (212, 15341), (248, 15470), (251, 15485), (258, 15518), (261, 15527), (303, 15713), (324, 15788), (327, 15797), (330, 15812), (336, 15830), (337, 15833), (343, 15854), (345, 15857), (349, 15875), (358, 15917), (359, 15920), (360, 15923), (366, 15944), (376, 15977), (386, 16022), (394, 16052), (407, 16127), (418, 16184), (432, 16241), (434, 16253), (446, 16301), (447, 16304), (473, 16436), (502, 16589), (505, 16604), (512, 16631), (521, 16670), (528, 16700), (536, 16733), (539, 16763), (549, 16838), (551, 16895), (552, 16898), (553, 16904), (556, 16940),

Gene: Chymera_17 Start: 10951, Stop: 12987, Start Num: 23
Candidate Starts for Chymera_17:
(8, 10852), (Start: 23 @10951 has 1 MA's), (30, 10987), (50, 11086), (53, 11095), (55, 11113), (69, 11203), (74, 11260), (77, 11272), (83, 11305), (84, 11314), (92, 11347), (119, 11470), (122, 11482), (124, 11491), (125, 11494), (133, 11554), (134, 11557), (137, 11569), (157, 11695), (177, 11803), (180, 11821), (187, 11854), (195, 11887), (202, 11929), (208, 11953), (210, 11965), (213, 11980), (223, 12019), (240, 12061), (241, 12064), (251, 12103), (257, 12124), (259, 12136), (260, 12139), (280, 12208), (385, 12475), (409, 12574), (429, 12661), (436, 12691), (453, 12763), (468, 12841), (480, 12883), (482, 12886),

Gene: Cicada_21 Start: 13577, Stop: 15565, Start Num: 33
Candidate Starts for Cicada_21:
(Start: 33 @13577 has 21 MA's), (38, 13616), (60, 13727), (62, 13742), (65, 13754), (100, 13946), (104, 13970), (126, 14012), (141, 14102), (151, 14153), (162, 14219), (176, 14300), (179, 14315), (184, 14339), (196, 14402), (200, 14426), (223, 14528), (233, 14552), (249, 14621), (261, 14654), (343, 14852), (378, 14879), (381, 14897), (401, 14951), (410, 14999), (412, 15011), (413, 15017),

(429, 15083), (431, 15095), (475, 15272), (481, 15308), (490, 15338), (500, 15398), (536, 15539),

Gene: Colusalem_16 Start: 10214, Stop: 12349, Start Num: 12
Candidate Starts for Colusalem_16:
(Start: 12 @10214 has 52 MA's), (16, 10247), (17, 10253), (Start: 20 @10265 has 23 MA's), (42, 10370), (70, 10535), (72, 10556), (95, 10670), (107, 10733), (120, 10775), (125, 10796), (127, 10817), (140, 10898), (141, 10901), (142, 10910), (144, 10922), (145, 10925), (168, 11042), (174, 11072), (183, 11114), (186, 11123), (211, 11240), (220, 11273), (228, 11300), (236, 11324), (240, 11336), (243, 11345), (245, 11354), (254, 11393), (264, 11429), (266, 11441), (268, 11453), (274, 11474), (282, 11501), (289, 11534), (292, 11549), (411, 11711), (417, 11735), (427, 11774), (434, 11810), (457, 11918), (468, 11972), (488, 12038), (492, 12059), (531, 12230), (538, 12263), (539, 12275), (544, 12320), (546, 12341),

Gene: CookieDog_22 Start: 11501, Stop: 13699, Start Num: 20
Candidate Starts for CookieDog_22:
(Start: 20 @11501 has 23 MA's), (Start: 33 @11576 has 21 MA's), (45, 11627), (51, 11654), (66, 11747), (80, 11846), (84, 11879), (87, 11891), (96, 11942), (97, 11945), (100, 11954), (101, 11957), (107, 11993), (109, 11999), (110, 12002), (113, 12014), (116, 12023), (122, 12047), (138, 12146), (150, 12206), (155, 12245), (157, 12260), (182, 12398), (185, 12404), (195, 12455), (200, 12485), (202, 12497), (208, 12521), (209, 12530), (214, 12551), (215, 12554), (218, 12566), (223, 12584), (236, 12626), (245, 12656), (281, 12797), (294, 12854), (312, 12920), (346, 12980), (349, 12989), (374, 13052), (407, 13118), (439, 13199), (504, 13469), (510, 13493), (519, 13532), (523, 13553),

Gene: CoolCookie_29 Start: 14917, Stop: 17793, Start Num: 1
Candidate Starts for CoolCookie_29:
(Start: 1 @14917 has 44 MA's), (11, 15100), (18, 15151), (22, 15169), (28, 15193), (35, 15268), (41, 15292), (45, 15307), (66, 15427), (69, 15448), (73, 15496), (86, 15562), (130, 15733), (131, 15742), (138, 15775), (139, 15784), (143, 15817), (166, 15949), (169, 15961), (172, 15973), (184, 16036), (190, 16072), (212, 16186), (248, 16315), (251, 16330), (258, 16363), (261, 16372), (303, 16558), (321, 16624), (327, 16642), (330, 16657), (336, 16675), (337, 16678), (343, 16699), (345, 16702), (356, 16750), (365, 16786), (366, 16789), (376, 16822), (386, 16867), (400, 16933), (402, 16942), (432, 17086), (434, 17098), (446, 17146), (447, 17149), (473, 17281), (502, 17434), (505, 17449), (512, 17476), (521, 17515), (528, 17545), (536, 17578), (539, 17608), (549, 17683), (552, 17743), (553, 17749), (555, 17773), (556, 17785),

Gene: Coral_16 Start: 10214, Stop: 12349, Start Num: 12
Candidate Starts for Coral_16:
(Start: 12 @10214 has 52 MA's), (16, 10247), (17, 10253), (Start: 20 @10265 has 23 MA's), (42, 10370), (70, 10535), (72, 10556), (95, 10670), (107, 10733), (120, 10775), (125, 10796), (127, 10817), (140, 10898), (141, 10901), (142, 10910), (144, 10922), (145, 10925), (168, 11042), (174, 11072), (183, 11114), (186, 11123), (211, 11240), (220, 11273), (228, 11300), (236, 11324), (240, 11336), (243, 11345), (245, 11354), (254, 11393), (264, 11429), (266, 11441), (268, 11453), (274, 11474), (282, 11501), (289, 11534), (292, 11549), (411, 11711), (417, 11735), (427, 11774), (434, 11810), (457, 11918), (468, 11972), (488, 12038), (492, 12059), (531, 12230), (538, 12263), (539, 12275), (544, 12320), (546, 12341),

Gene: Cote_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Cote_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635),

(282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: Crestdrop_28 Start: 13981, Stop: 16857, Start Num: 1
Candidate Starts for Crestdrop_28:
(Start: 1 @13981 has 44 MA's), (11, 14164), (18, 14215), (22, 14233), (28, 14257), (35, 14332), (45, 14371), (66, 14491), (68, 14500), (69, 14512), (73, 14560), (86, 14626), (130, 14797), (131, 14806), (139, 14848), (150, 14902), (166, 15013), (169, 15025), (172, 15037), (181, 15088), (184, 15100), (185, 15103), (248, 15379), (251, 15394), (258, 15427), (261, 15436), (303, 15622), (311, 15652), (314, 15664), (324, 15697), (327, 15706), (330, 15721), (336, 15739), (337, 15742), (343, 15763), (345, 15766), (349, 15784), (358, 15826), (359, 15829), (360, 15832), (366, 15853), (376, 15886), (386, 15931), (394, 15961), (407, 16036), (432, 16150), (446, 16210), (447, 16213), (473, 16345), (502, 16498), (505, 16513), (512, 16540), (521, 16579), (528, 16609), (536, 16642), (539, 16672), (549, 16747), (551, 16804), (552, 16807), (553, 16813), (556, 16849),

Gene: Cybele_29 Start: 14887, Stop: 17763, Start Num: 1
Candidate Starts for Cybele_29:
(Start: 1 @14887 has 44 MA's), (11, 15070), (18, 15121), (22, 15139), (28, 15163), (35, 15238), (41, 15262), (45, 15277), (66, 15397), (69, 15418), (73, 15466), (86, 15532), (130, 15703), (131, 15712), (138, 15745), (139, 15754), (143, 15787), (166, 15919), (169, 15931), (172, 15943), (184, 16006), (190, 16042), (212, 16156), (248, 16285), (251, 16300), (258, 16333), (261, 16342), (303, 16528), (321, 16594), (327, 16612), (330, 16627), (336, 16645), (337, 16648), (343, 16669), (345, 16672), (356, 16720), (365, 16756), (366, 16759), (376, 16792), (386, 16837), (400, 16903), (402, 16912), (423, 17020), (432, 17056), (434, 17068), (446, 17116), (447, 17119), (473, 17251), (502, 17404), (505, 17419), (512, 17446), (521, 17485), (528, 17515), (536, 17548), (539, 17578), (549, 17653), (552, 17713), (553, 17719), (555, 17743), (556, 17755),

Gene: Cygnet_16 Start: 10164, Stop: 12530, Start Num: 12
Candidate Starts for Cygnet_16:
(Start: 12 @10164 has 52 MA's), (14, 10179), (16, 10200), (37, 10332), (52, 10395), (61, 10455), (68, 10494), (70, 10533), (72, 10554), (76, 10566), (78, 10575), (80, 10584), (93, 10656), (94, 10662), (101, 10695), (107, 10731), (109, 10737), (113, 10752), (125, 10797), (132, 10851), (133, 10857), (139, 10893), (140, 10902), (150, 10944), (157, 10998), (165, 11043), (188, 11169), (192, 11181), (200, 11223), (206, 11253), (211, 11280), (236, 11364), (243, 11385), (247, 11403), (259, 11454), (264, 11469), (266, 11481), (268, 11493), (272, 11502), (282, 11541), (289, 11574), (290, 11577), (305, 11640), (343, 11727), (368, 11805), (405, 11853), (427, 11946), (431, 11967), (434, 11982), (448, 12036), (480, 12198), (488, 12210), (492, 12231), (499, 12264), (504, 12294), (520, 12354), (540, 12465), (544, 12498),

Gene: DaRealMyers_16 Start: 10050, Stop: 12278, Start Num: 3
Candidate Starts for DaRealMyers_16:
(Start: 3 @10050 has 9 MA's), (4, 10056), (5, 10062), (29, 10239), (31, 10260), (52, 10377), (69, 10488), (76, 10548), (100, 10674), (116, 10743), (128, 10806), (134, 10839), (147, 10914), (157, 10977), (169, 11043), (185, 11115), (200, 11193), (212, 11253), (262, 11319), (287, 11373), (293, 11382), (319, 11427), (336, 11445), (338, 11451), (387, 11586), (410, 11685), (422, 11742), (437, 11808), (442, 11820), (463, 11928), (472, 11952), (493, 12027), (510, 12108), (528, 12159), (534, 12189),

Gene: Damocles_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Damocles_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978),

(140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: DanHam62_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for DanHam62_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (444, 11567), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: DannyDe_28 Start: 14064, Stop: 16940, Start Num: 1
Candidate Starts for DannyDe_28:
(Start: 1 @14064 has 44 MA's), (11, 14247), (18, 14298), (22, 14316), (28, 14340), (35, 14415), (41, 14439), (45, 14454), (66, 14574), (69, 14595), (73, 14643), (86, 14709), (130, 14880), (131, 14889), (138, 14922), (139, 14931), (143, 14964), (166, 15096), (169, 15108), (172, 15120), (181, 15171), (190, 15219), (212, 15333), (248, 15462), (251, 15477), (258, 15510), (261, 15519), (303, 15705), (324, 15780), (327, 15789), (330, 15804), (336, 15822), (337, 15825), (343, 15846), (345, 15849), (349, 15867), (358, 15909), (359, 15912), (360, 15915), (366, 15936), (376, 15969), (386, 16014), (394, 16044), (407, 16119), (432, 16233), (434, 16245), (446, 16293), (447, 16296), (473, 16428), (502, 16581), (505, 16596), (512, 16623), (521, 16662), (528, 16692), (536, 16725), (539, 16755), (549, 16830), (551, 16887), (552, 16890), (553, 16896), (556, 16932),

Gene: Daob_17 Start: 10378, Stop: 12513, Start Num: 12
Candidate Starts for Daob_17:
(Start: 12 @10378 has 52 MA's), (16, 10411), (17, 10417), (Start: 20 @10429 has 23 MA's), (42, 10534), (70, 10699), (72, 10720), (95, 10834), (107, 10897), (120, 10939), (125, 10960), (127, 10981), (140, 11062), (141, 11065), (142, 11074), (144, 11086), (145, 11089), (168, 11206), (174, 11236), (183, 11278), (186, 11287), (211, 11404), (220, 11437), (228, 11464), (236, 11488), (240, 11500), (243, 11509), (245, 11518), (254, 11557), (264, 11593), (266, 11605), (268, 11617), (274, 11638), (282, 11665), (289, 11698), (292, 11713), (411, 11875), (417, 11899), (427, 11938), (434, 11974), (457, 12082), (468, 12136), (488, 12202), (492, 12223), (531, 12394), (538, 12427), (539, 12439), (544, 12484), (546, 12505),

Gene: Dauntless_28 Start: 14624, Stop: 17500, Start Num: 1
Candidate Starts for Dauntless_28:
(Start: 1 @14624 has 44 MA's), (11, 14807), (18, 14858), (22, 14876), (28, 14900), (35, 14975), (45, 15014), (66, 15134), (68, 15143), (69, 15155), (73, 15203), (86, 15269), (130, 15440), (131, 15449), (139, 15491), (166, 15656), (169, 15668), (172, 15680), (181, 15731), (184, 15743), (185, 15746), (248, 16022), (251, 16037), (258, 16070), (261, 16079), (303, 16265), (311, 16295), (324, 16340), (327, 16349), (330, 16364), (336, 16382), (337, 16385), (343, 16406), (345, 16409), (349, 16427), (358, 16469), (359, 16472), (360, 16475), (366, 16496), (376, 16529), (386, 16574), (407, 16679), (432, 16793), (434, 16805), (446, 16853), (473, 16988), (502, 17141), (505, 17156), (512, 17183), (521, 17222), (528, 17252), (536, 17285), (539, 17315), (549, 17390), (551, 17447), (552, 17450), (553, 17456), (556, 17492),

Gene: DelaGarza_20 Start: 12031, Stop: 14265, Start Num: 20

Candidate Starts for DelaGarza_20:
(Start: 20 @12031 has 23 MA's), (21, 12037), (34, 12118), (38, 12130), (43, 12148), (46, 12157), (55, 12199), (56, 12205), (80, 12367), (82, 12382), (85, 12403), (87, 12412), (100, 12475), (119, 12556), (122, 12568), (129, 12616), (132, 12634), (138, 12667), (150, 12727), (157, 12781), (167, 12838), (195, 12976), (200, 13006), (202, 13018), (211, 13063), (234, 13132), (244, 13171), (249, 13195), (255, 13216), (272, 13282), (295, 13372), (298, 13381), (299, 13384), (316, 13435), (395, 13579), (411, 13675), (420, 13711), (425, 13732), (435, 13783), (439, 13798), (477, 13963), (479, 13972), (494, 14008), (504, 14065), (509, 14083), (513, 14098), (516, 14107),

Gene: Dropshot_21 Start: 11367, Stop: 13565, Start Num: 20
Candidate Starts for Dropshot_21:
(Start: 20 @11367 has 23 MA's), (Start: 33 @11442 has 21 MA's), (45, 11493), (51, 11520), (66, 11613), (71, 11670), (80, 11712), (84, 11745), (87, 11757), (96, 11808), (97, 11811), (100, 11820), (101, 11823), (107, 11859), (109, 11865), (110, 11868), (113, 11880), (116, 11889), (122, 11913), (138, 12012), (150, 12072), (155, 12111), (157, 12126), (167, 12183), (195, 12321), (200, 12351), (202, 12363), (208, 12387), (209, 12396), (214, 12417), (215, 12420), (218, 12432), (223, 12450), (236, 12492), (245, 12522), (281, 12663), (294, 12720), (312, 12786), (346, 12846), (349, 12855), (374, 12918), (407, 12984), (424, 13017), (504, 13335), (510, 13359), (519, 13398), (523, 13419),

Gene: Eesa_16 Start: 10396, Stop: 12624, Start Num: 12
Candidate Starts for Eesa_16:
(Start: 12 @10396 has 52 MA's), (14, 10411), (16, 10432), (29, 10486), (36, 10561), (42, 10591), (48, 10612), (55, 10648), (71, 10774), (76, 10798), (78, 10807), (80, 10816), (93, 10888), (101, 10927), (107, 10963), (113, 10984), (119, 11005), (125, 11029), (132, 11083), (133, 11089), (135, 11095), (139, 11125), (140, 11134), (150, 11176), (157, 11230), (165, 11275), (192, 11413), (200, 11455), (206, 11485), (216, 11527), (224, 11557), (243, 11617), (246, 11629), (248, 11638), (252, 11659), (268, 11725), (282, 11773), (286, 11794), (290, 11809), (294, 11827), (347, 11887), (442, 12112), (492, 12331), (531, 12502), (540, 12559), (546, 12613),

Gene: Erudite_28 Start: 14624, Stop: 17500, Start Num: 1
Candidate Starts for Erudite_28:
(Start: 1 @14624 has 44 MA's), (11, 14807), (18, 14858), (22, 14876), (28, 14900), (35, 14975), (45, 15014), (66, 15134), (68, 15143), (69, 15155), (73, 15203), (86, 15269), (130, 15440), (131, 15449), (139, 15491), (166, 15656), (169, 15668), (172, 15680), (181, 15731), (184, 15743), (185, 15746), (248, 16022), (251, 16037), (258, 16070), (261, 16079), (303, 16265), (311, 16295), (324, 16340), (327, 16349), (330, 16364), (336, 16382), (337, 16385), (343, 16406), (345, 16409), (349, 16427), (358, 16469), (359, 16472), (360, 16475), (366, 16496), (376, 16529), (386, 16574), (407, 16679), (432, 16793), (434, 16805), (446, 16853), (473, 16988), (502, 17141), (505, 17156), (512, 17183), (521, 17222), (528, 17252), (536, 17285), (539, 17315), (549, 17390), (551, 17447), (552, 17450), (553, 17456), (556, 17492),

Gene: Euratis_12 Start: 8185, Stop: 10374, Start Num: 19
Candidate Starts for Euratis_12:
(Start: 19 @8185 has 9 MA's), (26, 8212), (32, 8242), (61, 8392), (69, 8443), (70, 8470), (79, 8518), (83, 8545), (88, 8569), (99, 8626), (100, 8629), (103, 8644), (123, 8722), (132, 8785), (140, 8836), (154, 8911), (157, 8932), (185, 9070), (196, 9127), (202, 9160), (216, 9220), (237, 9295), (253, 9355), (257, 9367), (269, 9424), (272, 9430), (273, 9439), (279, 9460), (284, 9481), (297, 9538), (306, 9568), (309, 9574), (313, 9589), (319, 9607), (338, 9631), (347, 9664), (350, 9673), (352, 9679), (353, 9685), (381, 9748), (392, 9778), (409, 9862), (416, 9895), (419, 9907), (451, 10048), (457, 10081), (459, 10093), (467, 10132), (480, 10177), (497, 10231), (501, 10255), (523, 10342),

Gene: Fingolfin_15 Start: 9789, Stop: 12077, Start Num: 12
Candidate Starts for Fingolfin_15:

(Start: 12 @9789 has 52 MA's), (14, 9801), (16, 9822), (18, 9831), (Start: 20 @9840 has 23 MA's), (40, 9942), (51, 9984), (70, 10122), (81, 10176), (84, 10206), (105, 10308), (107, 10320), (112, 10338), (120, 10362), (125, 10383), (127, 10404), (140, 10485), (141, 10488), (142, 10497), (144, 10509), (168, 10629), (174, 10659), (183, 10701), (211, 10827), (218, 10851), (224, 10872), (239, 10920), (243, 10932), (246, 10944), (248, 10953), (254, 10980), (264, 11016), (266, 11028), (267, 11031), (268, 11040), (282, 11088), (286, 11109), (343, 11274), (410, 11421), (411, 11430), (427, 11493), (444, 11568), (468, 11691), (484, 11751), (488, 11757), (492, 11778), (507, 11853), (546, 12069),

Gene: FireCastle_19 Start: 13235, Stop: 15373, Start Num: 33
Candidate Starts for FireCastle_19:
(Start: 33 @13235 has 21 MA's), (60, 13385), (100, 13604), (103, 13619), (126, 13670), (151, 13811), (157, 13856), (162, 13877), (165, 13901), (179, 13973), (184, 13997), (185, 14000), (198, 14069), (199, 14078), (200, 14084), (217, 14162), (219, 14168), (233, 14210), (249, 14279), (253, 14294), (261, 14312), (277, 14345), (285, 14378), (326, 14477), (333, 14501), (343, 14534), (404, 14756), (411, 14798), (413, 14807), (429, 14873), (465, 15017), (475, 15062), (478, 15083), (481, 15098), (490, 15128), (500, 15188), (504, 15212),

Gene: FountainFog_28 Start: 14229, Stop: 17105, Start Num: 1
Candidate Starts for FountainFog_28:
(Start: 1 @14229 has 44 MA's), (18, 14463), (22, 14481), (28, 14505), (35, 14580), (41, 14604), (45, 14619), (66, 14739), (69, 14760), (73, 14808), (86, 14874), (130, 15045), (131, 15054), (138, 15087), (139, 15096), (143, 15129), (166, 15261), (169, 15273), (172, 15285), (181, 15336), (190, 15384), (196, 15414), (201, 15447), (212, 15498), (248, 15627), (251, 15642), (258, 15675), (261, 15684), (303, 15870), (311, 15900), (324, 15945), (330, 15969), (336, 15987), (337, 15990), (343, 16011), (345, 16014), (356, 16062), (366, 16101), (376, 16134), (386, 16179), (394, 16209), (398, 16230), (402, 16254), (403, 16263), (404, 16266), (423, 16362), (432, 16398), (434, 16410), (446, 16458), (447, 16461), (457, 16518), (467, 16572), (502, 16746), (505, 16761), (512, 16788), (521, 16827), (528, 16857), (536, 16890), (539, 16920), (549, 16995), (552, 17055), (553, 17061), (555, 17085), (556, 17097),

Gene: FreddieHg_28 Start: 14088, Stop: 16964, Start Num: 1
Candidate Starts for FreddieHg_28:
(Start: 1 @14088 has 44 MA's), (11, 14271), (18, 14322), (22, 14340), (28, 14364), (35, 14439), (41, 14463), (45, 14478), (66, 14598), (69, 14619), (73, 14667), (86, 14733), (130, 14904), (131, 14913), (138, 14946), (139, 14955), (143, 14988), (166, 15120), (169, 15132), (172, 15144), (181, 15195), (190, 15243), (212, 15357), (248, 15486), (251, 15501), (258, 15534), (261, 15543), (303, 15729), (324, 15804), (327, 15813), (330, 15828), (336, 15846), (337, 15849), (343, 15870), (345, 15873), (349, 15891), (358, 15933), (359, 15936), (360, 15939), (366, 15960), (376, 15993), (386, 16038), (394, 16068), (407, 16143), (418, 16200), (432, 16257), (434, 16269), (446, 16317), (447, 16320), (473, 16452), (502, 16605), (505, 16620), (512, 16647), (521, 16686), (528, 16716), (536, 16749), (539, 16779), (549, 16854), (551, 16911), (552, 16914), (553, 16920), (556, 16956),

Gene: Gilda_29 Start: 14911, Stop: 17787, Start Num: 1
Candidate Starts for Gilda_29:
(Start: 1 @14911 has 44 MA's), (11, 15094), (18, 15145), (22, 15163), (28, 15187), (35, 15262), (41, 15286), (45, 15301), (66, 15421), (69, 15442), (73, 15490), (86, 15556), (130, 15727), (131, 15736), (138, 15769), (139, 15778), (143, 15811), (166, 15943), (169, 15955), (172, 15967), (184, 16030), (190, 16066), (212, 16180), (248, 16309), (251, 16324), (258, 16357), (261, 16366), (303, 16552), (321, 16618), (327, 16636), (330, 16651), (336, 16669), (337, 16672), (343, 16693), (345, 16696), (356, 16744), (365, 16780), (366, 16783), (376, 16816), (386, 16861), (400, 16927), (402, 16936), (432, 17080), (434, 17092), (446, 17140), (447, 17143), (473, 17275), (502, 17428), (505, 17443), (512, 17470), (521, 17509), (528, 17539), (536, 17572), (539, 17602), (549, 17677), (552, 17737), (553, 17743), (555, 17767), (556, 17779),

Gene: Gingerbug_18 Start: 11192, Stop: 13474, Start Num: 20
Candidate Starts for Gingerbug_18:
(Start: 20 @11192 has 23 MA's), (34, 11273), (38, 11285), (61, 11393), (70, 11471), (71, 11480), (75, 11501), (80, 11522), (82, 11537), (85, 11558), (100, 11630), (103, 11645), (119, 11711), (123, 11726), (125, 11735), (129, 11771), (132, 11789), (138, 11822), (150, 11882), (157, 11936), (166, 11990), (173, 12023), (185, 12080), (196, 12140), (200, 12161), (202, 12173), (204, 12185), (213, 12224), (215, 12230), (220, 12251), (223, 12260), (236, 12302), (240, 12314), (245, 12332), (268, 12428), (274, 12449), (281, 12473), (282, 12476), (286, 12497), (295, 12533), (312, 12596), (320, 12620), (367, 12752), (380, 12761), (411, 12884), (420, 12920), (433, 12983), (446, 13034), (449, 13046), (456, 13091), (483, 13190), (494, 13217), (513, 13307), (530, 13376),

Gene: Glotell_15 Start: 9786, Stop: 12074, Start Num: 12
Candidate Starts for Glotell_15:
(Start: 12 @9786 has 52 MA's), (14, 9798), (16, 9819), (18, 9828), (Start: 20 @9837 has 23 MA's), (40, 9939), (51, 9981), (70, 10119), (81, 10173), (84, 10203), (105, 10305), (107, 10317), (112, 10335), (120, 10359), (125, 10380), (127, 10401), (140, 10482), (141, 10485), (142, 10494), (144, 10506), (168, 10626), (174, 10656), (183, 10698), (211, 10824), (218, 10848), (224, 10869), (239, 10917), (243, 10929), (246, 10941), (248, 10950), (254, 10977), (264, 11013), (266, 11025), (267, 11028), (268, 11037), (282, 11085), (286, 11106), (343, 11271), (410, 11418), (411, 11427), (427, 11490), (430, 11502), (444, 11565), (468, 11688), (484, 11748), (488, 11754), (492, 11775), (507, 11850), (546, 12066),

Gene: Goodman_20 Start: 13490, Stop: 15478, Start Num: 33
Candidate Starts for Goodman_20:
(15, 13391), (Start: 33 @13490 has 21 MA's), (60, 13640), (62, 13655), (65, 13667), (100, 13859), (104, 13883), (126, 13925), (141, 14015), (151, 14066), (162, 14132), (176, 14213), (179, 14228), (184, 14252), (200, 14339), (223, 14441), (233, 14465), (249, 14534), (261, 14567), (343, 14765), (378, 14792), (381, 14810), (401, 14864), (410, 14912), (412, 14924), (413, 14930), (429, 14996), (431, 15008), (432, 15011), (475, 15185), (481, 15221), (490, 15251), (500, 15311), (536, 15452),

Gene: GramZayde_16 Start: 10214, Stop: 12349, Start Num: 12
Candidate Starts for GramZayde_16:
(Start: 12 @10214 has 52 MA's), (16, 10247), (17, 10253), (Start: 20 @10265 has 23 MA's), (42, 10370), (70, 10535), (72, 10556), (95, 10670), (107, 10733), (120, 10775), (125, 10796), (127, 10817), (140, 10898), (141, 10901), (142, 10910), (144, 10922), (145, 10925), (168, 11042), (174, 11072), (183, 11114), (186, 11123), (211, 11240), (220, 11273), (228, 11300), (236, 11324), (240, 11336), (243, 11345), (245, 11354), (254, 11393), (264, 11429), (266, 11441), (268, 11453), (274, 11474), (282, 11501), (289, 11534), (292, 11549), (411, 11711), (417, 11735), (427, 11774), (434, 11810), (457, 11918), (468, 11972), (488, 12038), (492, 12059), (531, 12230), (538, 12263), (539, 12275), (544, 12320), (546, 12341),

Gene: Gravel_17 Start: 10380, Stop: 12530, Start Num: 12
Candidate Starts for Gravel_17:
(Start: 12 @10380 has 52 MA's), (16, 10416), (Start: 20 @10434 has 23 MA's), (24, 10455), (51, 10575), (59, 10626), (76, 10746), (94, 10842), (107, 10911), (112, 10929), (120, 10953), (127, 10995), (140, 11076), (141, 11079), (142, 11088), (144, 11100), (168, 11220), (174, 11250), (183, 11292), (209, 11406), (211, 11418), (222, 11454), (245, 11532), (247, 11541), (268, 11631), (282, 11679), (286, 11700), (294, 11733), (311, 11793), (406, 11862), (409, 11877), (442, 12018), (492, 12237), (510, 12324), (531, 12408), (540, 12465), (546, 12519),

Gene: Guzman_23 Start: 11782, Stop: 13980, Start Num: 20
Candidate Starts for Guzman_23:

(Start: 20 @11782 has 23 MA's), (Start: 33 @11857 has 21 MA's), (45, 11908), (51, 11935), (66, 12028), (71, 12085), (80, 12127), (84, 12160), (87, 12172), (96, 12223), (97, 12226), (100, 12235), (101, 12238), (107, 12274), (109, 12280), (110, 12283), (113, 12295), (116, 12304), (122, 12328), (138, 12427), (150, 12487), (155, 12526), (157, 12541), (167, 12598), (195, 12736), (200, 12766), (202, 12778), (208, 12802), (209, 12811), (214, 12832), (215, 12835), (218, 12847), (223, 12865), (236, 12907), (245, 12937), (281, 13078), (294, 13135), (312, 13201), (346, 13261), (349, 13270), (374, 13333), (407, 13399), (439, 13480), (494, 13693), (504, 13750), (510, 13774), (519, 13813), (523, 13834),

Gene: Hager_30 Start: 14473, Stop: 17349, Start Num: 1
Candidate Starts for Hager_30:
(Start: 1 @14473 has 44 MA's), (18, 14707), (22, 14725), (28, 14749), (35, 14824), (45, 14863), (66, 14983), (69, 15004), (73, 15052), (86, 15118), (130, 15289), (131, 15298), (138, 15331), (139, 15340), (166, 15505), (169, 15517), (172, 15529), (184, 15592), (190, 15628), (248, 15871), (251, 15886), (258, 15919), (261, 15928), (303, 16114), (311, 16144), (324, 16189), (330, 16213), (336, 16231), (337, 16234), (343, 16255), (345, 16258), (356, 16306), (366, 16345), (376, 16378), (386, 16423), (398, 16474), (402, 16498), (403, 16507), (432, 16642), (434, 16654), (446, 16702), (447, 16705), (457, 16762), (461, 16786), (467, 16816), (502, 16990), (505, 17005), (512, 17032), (521, 17071), (528, 17101), (532, 17122), (536, 17134), (539, 17164), (549, 17239), (552, 17299), (553, 17305), (555, 17329), (556, 17341),

Gene: HamCheese_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for HamCheese_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (430, 11504), (444, 11567), (454, 11615), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: HannahPhantana_17 Start: 10378, Stop: 12513, Start Num: 12
Candidate Starts for HannahPhantana_17:
(Start: 12 @10378 has 52 MA's), (16, 10411), (17, 10417), (Start: 20 @10429 has 23 MA's), (42, 10534), (53, 10567), (70, 10699), (72, 10720), (95, 10834), (107, 10897), (120, 10939), (125, 10960), (127, 10981), (140, 11062), (141, 11065), (142, 11074), (144, 11086), (145, 11089), (168, 11206), (174, 11236), (183, 11278), (186, 11287), (211, 11404), (220, 11437), (228, 11464), (236, 11488), (240, 11500), (243, 11509), (245, 11518), (254, 11557), (264, 11593), (266, 11605), (268, 11617), (274, 11638), (282, 11665), (289, 11698), (292, 11713), (411, 11875), (417, 11899), (427, 11938), (434, 11974), (457, 12082), (468, 12136), (488, 12202), (492, 12223), (531, 12394), (538, 12427), (539, 12439), (544, 12484), (546, 12505),

Gene: Haunter_29 Start: 14324, Stop: 17200, Start Num: 1
Candidate Starts for Haunter_29:
(Start: 1 @14324 has 44 MA's), (18, 14558), (22, 14576), (28, 14600), (35, 14675), (41, 14699), (45, 14714), (66, 14834), (69, 14855), (73, 14903), (86, 14969), (130, 15140), (131, 15149), (138, 15182), (139, 15191), (143, 15224), (166, 15356), (169, 15368), (172, 15380), (184, 15443), (190, 15479), (212, 15593), (248, 15722), (251, 15737), (258, 15770), (261, 15779), (303, 15965), (311, 15995), (330, 16064), (336, 16082), (337, 16085), (343, 16106), (345, 16109), (356, 16157), (366, 16196), (376, 16229), (386, 16274), (398, 16325), (402, 16349), (403, 16358), (423, 16457), (432, 16493), (434, 16505), (446, 16553), (447, 16556), (457, 16613), (461, 16637), (467, 16667), (502, 16841), (505, 16856), (512, 16883), (528, 16952), (536, 16985), (539, 17015), (549, 17090), (552, 17150),

(553, 17156), (555, 17180), (556, 17192),

Gene: Heather_12 Start: 8215, Stop: 10404, Start Num: 19
Candidate Starts for Heather_12:
(Start: 19 @8215 has 9 MA's), (53, 8365), (55, 8383), (61, 8422), (69, 8473), (70, 8500), (83, 8575), (88, 8599), (100, 8659), (123, 8752), (132, 8815), (140, 8866), (142, 8878), (157, 8962), (171, 9037), (177, 9070), (185, 9100), (196, 9157), (202, 9190), (301, 9580), (309, 9604), (319, 9637), (338, 9661), (347, 9694), (351, 9706), (419, 9937), (446, 10045), (451, 10078), (457, 10111), (480, 10207), (489, 10228), (511, 10324),

Gene: Hiddenleaf_28 Start: 14072, Stop: 16948, Start Num: 1
Candidate Starts for Hiddenleaf_28:
(Start: 1 @14072 has 44 MA's), (11, 14255), (18, 14306), (22, 14324), (28, 14348), (35, 14423), (41, 14447), (45, 14462), (66, 14582), (69, 14603), (73, 14651), (86, 14717), (130, 14888), (131, 14897), (138, 14930), (139, 14939), (143, 14972), (166, 15104), (169, 15116), (172, 15128), (181, 15179), (190, 15227), (212, 15341), (248, 15470), (251, 15485), (258, 15518), (261, 15527), (303, 15713), (324, 15788), (327, 15797), (330, 15812), (336, 15830), (337, 15833), (343, 15854), (345, 15857), (349, 15875), (358, 15917), (359, 15920), (360, 15923), (366, 15944), (376, 15977), (386, 16022), (394, 16052), (407, 16127), (418, 16184), (432, 16241), (434, 16253), (446, 16301), (447, 16304), (473, 16436), (502, 16589), (505, 16604), (512, 16631), (521, 16670), (528, 16700), (536, 16733), (539, 16763), (549, 16838), (551, 16895), (552, 16898), (553, 16904), (556, 16940),

Gene: Htur_19 Start: 13514, Stop: 15508, Start Num: 33
Candidate Starts for Htur_19:
(Start: 33 @13514 has 21 MA's), (38, 13553), (60, 13664), (62, 13679), (65, 13691), (82, 13805), (100, 13883), (104, 13907), (141, 14039), (151, 14090), (162, 14156), (179, 14252), (200, 14363), (233, 14489), (248, 14549), (253, 14573), (261, 14591), (277, 14624), (330, 14771), (343, 14789), (379, 14822), (383, 14837), (404, 14903), (446, 15062), (448, 15068), (449, 15074), (462, 15152), (466, 15167), (475, 15209), (490, 15275), (501, 15344), (536, 15482),

Gene: Ididsumtinwong_16 Start: 9816, Stop: 12233, Start Num: 3
Candidate Starts for Ididsumtinwong_16:
(Start: 3 @9816 has 9 MA's), (5, 9828), (7, 9882), (9, 9903), (52, 10077), (55, 10098), (64, 10155), (69, 10188), (83, 10290), (92, 10332), (100, 10374), (101, 10377), (103, 10389), (123, 10467), (132, 10530), (142, 10593), (146, 10611), (150, 10623), (157, 10677), (159, 10686), (166, 10731), (167, 10734), (185, 10815), (201, 10902), (202, 10905), (212, 10953), (217, 10971), (222, 10989), (225, 11001), (257, 11112), (269, 11169), (279, 11205), (284, 11226), (291, 11259), (293, 11265), (309, 11319), (319, 11352), (338, 11376), (403, 11574), (458, 11832), (463, 11853), (472, 11877), (476, 11898), (493, 11952), (507, 12018), (510, 12030), (521, 12075),

Gene: IndiRoo_19 Start: 11519, Stop: 13810, Start Num: 33
Candidate Starts for IndiRoo_19:
(Start: 33 @11519 has 21 MA's), (55, 11636), (60, 11669), (82, 11810), (100, 11888), (104, 11912), (141, 12044), (151, 12095), (158, 12146), (177, 12245), (185, 12284), (193, 12332), (199, 12362), (217, 12446), (233, 12494), (236, 12512), (249, 12563), (270, 12629), (290, 12716), (307, 12782), (311, 12797), (318, 12815), (323, 12836), (332, 12869), (381, 13058), (388, 13079), (391, 13091), (393, 13100), (403, 13157), (409, 13190), (413, 13211), (431, 13289), (433, 13301), (441, 13331), (448, 13358), (462, 13442), (465, 13454), (470, 13475), (471, 13478), (496, 13592), (503, 13643), (506, 13658),

Gene: JDawG_28 Start: 14654, Stop: 17530, Start Num: 1
Candidate Starts for JDawG_28:

(Start: 1 @14654 has 44 MA's), (11, 14837), (18, 14888), (22, 14906), (28, 14930), (35, 15005), (45, 15044), (66, 15164), (68, 15173), (69, 15185), (73, 15233), (86, 15299), (130, 15470), (131, 15479), (139, 15521), (166, 15686), (169, 15698), (172, 15710), (181, 15761), (184, 15773), (185, 15776), (248, 16052), (251, 16067), (258, 16100), (261, 16109), (303, 16295), (311, 16325), (324, 16370), (327, 16379), (330, 16394), (336, 16412), (337, 16415), (343, 16436), (345, 16439), (349, 16457), (358, 16499), (359, 16502), (360, 16505), (366, 16526), (376, 16559), (386, 16604), (394, 16634), (418, 16766), (432, 16823), (434, 16835), (446, 16883), (447, 16886), (473, 17018), (502, 17171), (505, 17186), (512, 17213), (521, 17252), (528, 17282), (536, 17315), (539, 17345), (549, 17420), (551, 17477), (552, 17480), (553, 17486), (556, 17522),

Gene: Jakelyne_23 Start: 11520, Stop: 13781, Start Num: 20
Candidate Starts for Jakelyne_23:
(Start: 20 @11520 has 23 MA's), (Start: 33 @11595 has 21 MA's), (45, 11646), (51, 11673), (66, 11766), (71, 11823), (80, 11865), (84, 11898), (87, 11910), (96, 11961), (97, 11964), (100, 11973), (101, 11976), (107, 12012), (109, 12018), (110, 12021), (113, 12033), (116, 12042), (122, 12066), (138, 12165), (150, 12225), (155, 12264), (157, 12279), (167, 12336), (195, 12474), (200, 12504), (202, 12516), (208, 12540), (209, 12549), (214, 12570), (215, 12573), (218, 12585), (223, 12603), (236, 12645), (245, 12675), (278, 12804), (294, 12873), (303, 12906), (312, 12939), (346, 12999), (349, 13008), (361, 13038), (386, 13098), (424, 13170), (439, 13218), (448, 13251), (456, 13302), (462, 13335), (469, 13368), (470, 13371), (483, 13446), (503, 13545), (504, 13551), (510, 13575), (519, 13614), (523, 13635),

Gene: Jamun_16 Start: 10816, Stop: 13221, Start Num: 12
Candidate Starts for Jamun_16:
(Start: 12 @10816 has 52 MA's), (16, 10852), (Start: 20 @10870 has 23 MA's), (29, 10906), (39, 10981), (49, 11026), (64, 11113), (66, 11125), (91, 11284), (92, 11293), (102, 11344), (117, 11401), (118, 11407), (132, 11488), (140, 11542), (148, 11581), (153, 11620), (188, 11818), (200, 11872), (212, 11932), (213, 11935), (220, 11962), (245, 12046), (254, 12085), (258, 12103), (264, 12121), (274, 12169), (286, 12214), (301, 12274), (304, 12286), (310, 12307), (311, 12310), (317, 12328), (329, 12343), (331, 12346), (335, 12352), (339, 12361), (342, 12373), (344, 12379), (348, 12394), (351, 12403), (355, 12421), (365, 12445), (372, 12457), (377, 12475), (384, 12508), (410, 12577), (411, 12586), (412, 12589), (417, 12610), (426, 12646), (439, 12706), (444, 12724), (492, 12934), (517, 13042), (531, 13099), (540, 13156),

Gene: Jera_20 Start: 12587, Stop: 14575, Start Num: 33
Candidate Starts for Jera_20:
(Start: 33 @12587 has 21 MA's), (38, 12626), (60, 12737), (62, 12752), (65, 12764), (100, 12956), (104, 12980), (151, 13163), (162, 13229), (179, 13325), (184, 13349), (200, 13436), (223, 13538), (233, 13562), (249, 13631), (261, 13664), (277, 13697), (326, 13829), (378, 13889), (398, 13940), (410, 14009), (412, 14021), (413, 14027), (475, 14282), (490, 14348), (500, 14408), (536, 14549),

Gene: Jerole_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Jerole_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: JingleBells_28 Start: 14188, Stop: 17064, Start Num: 1

Candidate Starts for JingleBells_28:
(Start: 1 @14188 has 44 MA's), (11, 14371), (18, 14422), (22, 14440), (28, 14464), (35, 14539), (45, 14578), (66, 14698), (68, 14707), (69, 14719), (73, 14767), (86, 14833), (130, 15004), (131, 15013), (139, 15055), (166, 15220), (169, 15232), (172, 15244), (181, 15295), (184, 15307), (185, 15310), (210, 15445), (248, 15586), (251, 15601), (258, 15634), (261, 15643), (303, 15829), (324, 15904), (327, 15913), (330, 15928), (336, 15946), (337, 15949), (343, 15970), (345, 15973), (349, 15991), (358, 16033), (359, 16036), (360, 16039), (366, 16060), (376, 16093), (386, 16138), (394, 16168), (407, 16243), (418, 16300), (434, 16369), (446, 16417), (447, 16420), (473, 16552), (502, 16705), (505, 16720), (512, 16747), (521, 16786), (528, 16816), (536, 16849), (539, 16879), (549, 16954), (551, 17011), (552, 17014), (553, 17020), (556, 17056),

Gene: Johann_20 Start: 13490, Stop: 15478, Start Num: 33
Candidate Starts for Johann_20:
(15, 13391), (Start: 33 @13490 has 21 MA's), (60, 13640), (62, 13655), (65, 13667), (100, 13859), (104, 13883), (126, 13925), (141, 14015), (151, 14066), (162, 14132), (176, 14213), (179, 14228), (184, 14252), (200, 14339), (223, 14441), (233, 14465), (249, 14534), (261, 14567), (343, 14765), (378, 14792), (381, 14810), (401, 14864), (410, 14912), (412, 14924), (413, 14930), (429, 14996), (431, 15008), (432, 15011), (475, 15185), (481, 15221), (490, 15251), (500, 15311), (536, 15452),

Gene: Juno112_15 Start: 9789, Stop: 12077, Start Num: 12
Candidate Starts for Juno112_15:
(Start: 12 @9789 has 52 MA's), (14, 9801), (16, 9822), (18, 9831), (Start: 20 @9840 has 23 MA's), (40, 9942), (51, 9984), (70, 10122), (81, 10176), (84, 10206), (105, 10308), (107, 10320), (112, 10338), (120, 10362), (125, 10383), (127, 10404), (140, 10485), (141, 10488), (142, 10497), (144, 10509), (168, 10629), (174, 10659), (183, 10701), (211, 10827), (218, 10851), (224, 10872), (239, 10920), (243, 10932), (246, 10944), (248, 10953), (254, 10980), (264, 11016), (266, 11028), (267, 11031), (268, 11040), (282, 11088), (286, 11109), (343, 11274), (410, 11421), (411, 11430), (427, 11493), (444, 11568), (468, 11691), (484, 11751), (488, 11757), (492, 11778), (507, 11853), (546, 12069),

Gene: KHumphrey_15 Start: 9786, Stop: 12074, Start Num: 12
Candidate Starts for KHumphrey_15:
(Start: 12 @9786 has 52 MA's), (14, 9798), (16, 9819), (18, 9828), (Start: 20 @9837 has 23 MA's), (40, 9939), (51, 9981), (70, 10119), (81, 10173), (84, 10203), (105, 10305), (107, 10317), (112, 10335), (120, 10359), (125, 10380), (127, 10401), (140, 10482), (141, 10485), (142, 10494), (144, 10506), (168, 10626), (174, 10656), (183, 10698), (211, 10824), (218, 10848), (224, 10869), (239, 10917), (243, 10929), (246, 10941), (248, 10950), (254, 10977), (264, 11013), (266, 11025), (267, 11028), (268, 11037), (282, 11085), (286, 11106), (343, 11271), (410, 11418), (411, 11427), (427, 11490), (430, 11502), (444, 11565), (468, 11688), (484, 11748), (488, 11754), (492, 11775), (507, 11850), (546, 12066),

Gene: Karate_28 Start: 14323, Stop: 17199, Start Num: 1
Candidate Starts for Karate_28:
(Start: 1 @14323 has 44 MA's), (18, 14557), (22, 14575), (28, 14599), (35, 14674), (41, 14698), (45, 14713), (66, 14833), (69, 14854), (73, 14902), (86, 14968), (130, 15139), (131, 15148), (138, 15181), (139, 15190), (166, 15355), (169, 15367), (172, 15379), (184, 15442), (190, 15478), (212, 15592), (248, 15721), (251, 15736), (258, 15769), (261, 15778), (303, 15964), (311, 15994), (324, 16039), (327, 16048), (330, 16063), (336, 16081), (337, 16084), (343, 16105), (345, 16108), (356, 16156), (366, 16195), (376, 16228), (386, 16273), (398, 16324), (402, 16348), (403, 16357), (423, 16456), (432, 16492), (434, 16504), (446, 16552), (447, 16555), (457, 16612), (466, 16657), (467, 16666), (502, 16840), (505, 16855), (512, 16882), (521, 16921), (528, 16951), (536, 16984), (539, 17014), (549, 17089), (552, 17149), (553, 17155), (555, 17179), (556, 17191),

Gene: Kate_29 Start: 14919, Stop: 17795, Start Num: 1

Candidate Starts for Kate_29:
(Start: 1 @14919 has 44 MA's), (11, 15102), (18, 15153), (22, 15171), (28, 15195), (35, 15270), (41, 15294), (45, 15309), (66, 15429), (69, 15450), (73, 15498), (86, 15564), (130, 15735), (131, 15744), (138, 15777), (139, 15786), (143, 15819), (166, 15951), (169, 15963), (172, 15975), (184, 16038), (190, 16074), (212, 16188), (248, 16317), (251, 16332), (258, 16365), (261, 16374), (303, 16560), (321, 16626), (327, 16644), (330, 16659), (336, 16677), (337, 16680), (343, 16701), (345, 16704), (356, 16752), (365, 16788), (366, 16791), (376, 16824), (386, 16869), (400, 16935), (402, 16944), (423, 17052), (432, 17088), (434, 17100), (446, 17148), (447, 17151), (473, 17283), (502, 17436), (505, 17451), (512, 17478), (521, 17517), (528, 17547), (536, 17580), (539, 17610), (549, 17685), (552, 17745), (553, 17751), (555, 17775), (556, 17787),

Gene: KendraB23_17 Start: 10381, Stop: 12531, Start Num: 12
Candidate Starts for KendraB23_17:
(Start: 12 @10381 has 52 MA's), (16, 10417), (Start: 20 @10435 has 23 MA's), (24, 10456), (51, 10576), (59, 10627), (76, 10747), (94, 10843), (107, 10912), (112, 10930), (120, 10954), (127, 10996), (140, 11077), (141, 11080), (142, 11089), (144, 11101), (168, 11221), (174, 11251), (183, 11293), (209, 11407), (211, 11419), (222, 11455), (245, 11533), (247, 11542), (268, 11632), (282, 11680), (286, 11701), (294, 11734), (311, 11794), (406, 11863), (409, 11878), (442, 12019), (492, 12238), (510, 12325), (531, 12409), (540, 12466), (546, 12520),

Gene: Kepler_16 Start: 10213, Stop: 12348, Start Num: 12
Candidate Starts for Kepler_16:
(Start: 12 @10213 has 52 MA's), (16, 10246), (17, 10252), (Start: 20 @10264 has 23 MA's), (42, 10369), (70, 10534), (72, 10555), (95, 10669), (107, 10732), (120, 10774), (125, 10795), (127, 10816), (140, 10897), (141, 10900), (142, 10909), (144, 10921), (145, 10924), (168, 11041), (174, 11071), (183, 11113), (186, 11122), (211, 11239), (220, 11272), (228, 11299), (236, 11323), (240, 11335), (243, 11344), (245, 11353), (254, 11392), (264, 11428), (266, 11440), (268, 11452), (274, 11473), (282, 11500), (289, 11533), (292, 11548), (411, 11710), (417, 11734), (427, 11773), (434, 11809), (457, 11917), (468, 11971), (488, 12037), (492, 12058), (531, 12229), (538, 12262), (539, 12274), (544, 12319), (546, 12340),

Gene: Kors_30 Start: 14845, Stop: 17664, Start Num: 1
Candidate Starts for Kors_30:
(Start: 1 @14845 has 44 MA's), (6, 14965), (10, 15025), (18, 15079), (28, 15121), (35, 15196), (45, 15235), (61, 15325), (71, 15409), (73, 15424), (76, 15430), (89, 15502), (98, 15553), (100, 15559), (107, 15598), (139, 15712), (150, 15766), (158, 15829), (165, 15868), (166, 15877), (175, 15922), (185, 15967), (210, 16102), (238, 16207), (243, 16222), (245, 16228), (246, 16231), (249, 16249), (250, 16252), (261, 16270), (303, 16423), (318, 16474), (322, 16492), (327, 16507), (328, 16519), (330, 16522), (356, 16615), (359, 16630), (361, 16639), (366, 16654), (372, 16672), (373, 16675), (376, 16687), (386, 16732), (403, 16816), (404, 16819), (425, 16918), (431, 16948), (446, 17011), (447, 17014), (450, 17026), (487, 17212), (495, 17248), (502, 17299), (512, 17341), (521, 17380), (528, 17410), (536, 17443), (539, 17473), (545, 17512), (552, 17611), (553, 17617), (555, 17641),

Gene: Krampus_29 Start: 14917, Stop: 17793, Start Num: 1
Candidate Starts for Krampus_29:
(Start: 1 @14917 has 44 MA's), (11, 15100), (18, 15151), (22, 15169), (28, 15193), (35, 15268), (41, 15292), (45, 15307), (66, 15427), (69, 15448), (73, 15496), (86, 15562), (130, 15733), (131, 15742), (138, 15775), (139, 15784), (143, 15817), (166, 15949), (169, 15961), (172, 15973), (184, 16036), (190, 16072), (212, 16186), (248, 16315), (251, 16330), (258, 16363), (261, 16372), (303, 16558), (321, 16624), (327, 16642), (330, 16657), (336, 16675), (337, 16678), (343, 16699), (345, 16702), (356, 16750), (365, 16786), (366, 16789), (376, 16822), (386, 16867), (400, 16933), (402, 16942), (423, 17050), (432, 17086), (434, 17098), (446, 17146), (447, 17149), (473, 17281), (502, 17434), (505, 17449), (512, 17476), (521, 17515), (528, 17545), (536, 17578), (539, 17608), (549, 17683),

(552, 17743), (553, 17749), (555, 17773), (556, 17785),

Gene: Kuleana_16 Start: 10172, Stop: 12535, Start Num: 13
Candidate Starts for Kuleana_16:
(Start: 13 @10172 has 2 MA's), (16, 10205), (36, 10334), (48, 10385), (61, 10460), (71, 10547), (76, 10571), (80, 10589), (94, 10667), (107, 10736), (109, 10742), (113, 10757), (125, 10802), (132, 10856), (133, 10862), (135, 10868), (139, 10898), (140, 10907), (150, 10949), (157, 11003), (165, 11048), (169, 11069), (188, 11174), (189, 11177), (192, 11186), (202, 11240), (206, 11258), (211, 11285), (216, 11300), (224, 11330), (239, 11378), (243, 11390), (254, 11438), (268, 11498), (272, 11507), (282, 11546), (289, 11579), (290, 11582), (292, 11594), (294, 11600), (343, 11732), (405, 11858), (427, 11951), (448, 12041), (480, 12203), (492, 12236), (499, 12269), (515, 12338), (517, 12344), (531, 12413), (544, 12503), (546, 12524),

Gene: Labella_21 Start: 13470, Stop: 15458, Start Num: 33
Candidate Starts for Labella_21:
(Start: 33 @13470 has 21 MA's), (38, 13509), (60, 13620), (62, 13635), (65, 13647), (100, 13839), (104, 13863), (126, 13905), (151, 14046), (162, 14112), (179, 14208), (200, 14319), (223, 14421), (233, 14445), (249, 14514), (261, 14547), (326, 14712), (343, 14745), (376, 14760), (378, 14772), (381, 14790), (412, 14904), (413, 14910), (475, 15165), (490, 15231), (500, 15291), (536, 15432),

Gene: Laphuphu24k_14 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for Laphuphu24k_14:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (430, 11504), (444, 11567), (454, 11615), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: Leona_15 Start: 9839, Stop: 12127, Start Num: 12
Candidate Starts for Leona_15:
(Start: 12 @9839 has 52 MA's), (14, 9851), (16, 9872), (18, 9881), (Start: 20 @9890 has 23 MA's), (40, 9992), (51, 10034), (70, 10172), (81, 10226), (84, 10256), (107, 10370), (112, 10388), (120, 10412), (125, 10433), (127, 10454), (140, 10535), (141, 10538), (142, 10547), (144, 10559), (168, 10679), (174, 10709), (183, 10751), (211, 10877), (218, 10901), (224, 10922), (246, 10994), (254, 11030), (264, 11066), (266, 11078), (268, 11090), (274, 11111), (282, 11138), (286, 11159), (343, 11324), (410, 11471), (411, 11480), (427, 11543), (430, 11555), (444, 11618), (468, 11741), (484, 11801), (488, 11807), (492, 11828), (507, 11903), (546, 12119),

Gene: Lesiram_21 Start: 12001, Stop: 14235, Start Num: 20
Candidate Starts for Lesiram_21:
(Start: 20 @12001 has 23 MA's), (21, 12007), (34, 12088), (38, 12100), (43, 12118), (46, 12127), (55, 12169), (56, 12175), (80, 12337), (82, 12352), (85, 12373), (87, 12382), (100, 12445), (119, 12526), (122, 12538), (129, 12586), (132, 12604), (138, 12637), (150, 12697), (157, 12751), (167, 12808), (195, 12946), (200, 12976), (202, 12988), (211, 13033), (234, 13102), (244, 13141), (249, 13165), (255, 13186), (272, 13252), (295, 13342), (299, 13354), (316, 13405), (325, 13438), (411, 13645), (420, 13681), (425, 13702), (435, 13753), (439, 13768), (477, 13933), (479, 13942), (494, 13978), (504, 14035), (509, 14053), (513, 14068), (516, 14077),

Gene: Lilbooboo_12 Start: 8195, Stop: 10384, Start Num: 19
Candidate Starts for Lilbooboo_12:

(Start: 19 @8195 has 9 MA's), (26, 8222), (31, 8240), (55, 8363), (61, 8402), (69, 8453), (79, 8528), (83, 8555), (88, 8579), (90, 8585), (99, 8636), (100, 8639), (103, 8654), (123, 8732), (132, 8795), (140, 8846), (147, 8879), (151, 8900), (154, 8921), (157, 8942), (185, 9080), (202, 9170), (215, 9227), (221, 9251), (223, 9260), (237, 9305), (244, 9326), (269, 9434), (279, 9470), (284, 9491), (308, 9581), (309, 9584), (319, 9617), (338, 9641), (349, 9680), (351, 9686), (398, 9815), (409, 9872), (416, 9905), (417, 9908), (421, 9926), (429, 9959), (457, 10091), (480, 10187), (497, 10241), (523, 10352),

Gene: Linayshia_19 Start: 13506, Stop: 15500, Start Num: 33
Candidate Starts for Linayshia_19:
(Start: 33 @13506 has 21 MA's), (38, 13545), (60, 13656), (62, 13671), (65, 13683), (82, 13797), (100, 13875), (104, 13899), (141, 14031), (151, 14082), (162, 14148), (179, 14244), (200, 14355), (233, 14481), (248, 14541), (253, 14565), (261, 14583), (277, 14616), (330, 14763), (343, 14781), (379, 14814), (383, 14829), (404, 14895), (446, 15054), (448, 15060), (449, 15066), (462, 15144), (466, 15159), (475, 15201), (490, 15267), (501, 15336), (536, 15474),

Gene: Lishka_16 Start: 9780, Stop: 12197, Start Num: 3
Candidate Starts for Lishka_16:
(Start: 3 @9780 has 9 MA's), (5, 9792), (7, 9846), (9, 9867), (52, 10041), (55, 10062), (64, 10119), (69, 10152), (83, 10254), (92, 10296), (100, 10338), (101, 10341), (103, 10353), (123, 10431), (132, 10494), (142, 10557), (146, 10575), (150, 10587), (157, 10641), (159, 10650), (166, 10695), (167, 10698), (185, 10779), (201, 10866), (202, 10869), (212, 10917), (217, 10935), (222, 10953), (225, 10965), (257, 11076), (269, 11133), (279, 11169), (284, 11190), (291, 11223), (293, 11229), (302, 11262), (309, 11283), (319, 11316), (338, 11340), (403, 11538), (458, 11796), (463, 11817), (472, 11841), (476, 11862), (493, 11916), (507, 11982), (510, 11994), (521, 12039),

Gene: LittleTokyo_16 Start: 10123, Stop: 12486, Start Num: 12
Candidate Starts for LittleTokyo_16:
(Start: 12 @10123 has 52 MA's), (14, 10138), (16, 10159), (18, 10168), (47, 10336), (51, 10351), (61, 10414), (68, 10453), (70, 10492), (71, 10501), (72, 10513), (76, 10525), (78, 10534), (80, 10543), (94, 10621), (101, 10654), (107, 10690), (113, 10711), (124, 10753), (125, 10756), (132, 10810), (133, 10816), (135, 10822), (139, 10852), (140, 10861), (150, 10903), (157, 10957), (165, 11002), (188, 11128), (192, 11140), (200, 11182), (206, 11212), (209, 11227), (211, 11239), (222, 11275), (237, 11326), (243, 11344), (247, 11362), (249, 11374), (259, 11413), (264, 11428), (265, 11437), (267, 11443), (268, 11452), (282, 11500), (289, 11533), (290, 11536), (343, 11686), (405, 11812), (411, 11842), (417, 11866), (427, 11905), (444, 11980), (453, 12025), (466, 12091), (480, 12157), (488, 12169), (492, 12190), (499, 12223), (504, 12253), (515, 12292), (517, 12298), (538, 12397), (544, 12454), (546, 12475),

Gene: LordBart_30 Start: 14761, Stop: 17580, Start Num: 1
Candidate Starts for LordBart_30:
(Start: 1 @14761 has 44 MA's), (6, 14881), (10, 14941), (18, 14995), (28, 15037), (35, 15112), (45, 15151), (61, 15241), (71, 15325), (73, 15340), (76, 15346), (89, 15418), (98, 15469), (100, 15475), (107, 15514), (139, 15628), (150, 15682), (158, 15745), (165, 15784), (166, 15793), (175, 15838), (185, 15883), (210, 16018), (238, 16123), (243, 16138), (245, 16144), (246, 16147), (249, 16165), (250, 16168), (261, 16186), (303, 16339), (318, 16390), (322, 16408), (327, 16423), (328, 16435), (330, 16438), (356, 16531), (359, 16546), (361, 16555), (366, 16570), (372, 16588), (373, 16591), (376, 16603), (386, 16648), (403, 16732), (404, 16735), (425, 16834), (431, 16864), (446, 16927), (447, 16930), (450, 16942), (487, 17128), (495, 17164), (502, 17215), (512, 17257), (521, 17296), (528, 17326), (536, 17359), (539, 17389), (545, 17428), (552, 17527), (553, 17533), (555, 17557),

Gene: Losacky_23 Start: 11647, Stop: 13845, Start Num: 20
Candidate Starts for Losacky_23:

(Start: 20 @11647 has 23 MA's), (Start: 33 @11722 has 21 MA's), (45, 11773), (51, 11800), (66, 11893), (71, 11950), (80, 11992), (84, 12025), (87, 12037), (96, 12088), (97, 12091), (100, 12100), (101, 12103), (107, 12139), (109, 12145), (110, 12148), (113, 12160), (116, 12169), (122, 12193), (138, 12292), (150, 12352), (155, 12391), (157, 12406), (167, 12463), (195, 12601), (200, 12631), (202, 12643), (208, 12667), (209, 12676), (214, 12697), (215, 12700), (218, 12712), (223, 12730), (236, 12772), (245, 12802), (281, 12943), (294, 13000), (312, 13066), (346, 13126), (349, 13135), (374, 13198), (407, 13264), (504, 13615), (510, 13639), (519, 13678), (523, 13699),

Gene: Lunar_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Lunar_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: Mariel_23 Start: 11675, Stop: 14137, Start Num: 20
Candidate Starts for Mariel_23:
(Start: 20 @11675 has 23 MA's), (Start: 33 @11750 has 21 MA's), (39, 11780), (51, 11828), (61, 11891), (66, 11921), (69, 11942), (80, 12020), (84, 12053), (87, 12065), (96, 12116), (97, 12119), (101, 12131), (107, 12167), (109, 12173), (110, 12176), (113, 12188), (116, 12197), (122, 12221), (135, 12299), (138, 12320), (150, 12380), (155, 12419), (157, 12434), (167, 12491), (171, 12509), (182, 12572), (185, 12578), (195, 12629), (200, 12659), (202, 12671), (208, 12695), (209, 12704), (214, 12725), (215, 12728), (218, 12740), (236, 12800), (248, 12839), (249, 12848), (254, 12866), (274, 12947), (276, 12956), (282, 12974), (341, 13190), (350, 13223), (371, 13298), (390, 13400), (434, 13616), (457, 13724), (494, 13850), (504, 13907), (510, 13931), (519, 13970),

Gene: Melons_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Melons_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: MenE_22 Start: 11635, Stop: 13833, Start Num: 20
Candidate Starts for MenE_22:
(Start: 20 @11635 has 23 MA's), (Start: 33 @11710 has 21 MA's), (45, 11761), (51, 11788), (66, 11881), (71, 11938), (80, 11980), (84, 12013), (87, 12025), (96, 12076), (97, 12079), (100, 12088), (101, 12091), (107, 12127), (109, 12133), (110, 12136), (113, 12148), (116, 12157), (122, 12181), (138, 12280), (150, 12340), (155, 12379), (157, 12394), (167, 12451), (195, 12589), (200, 12619), (202, 12631), (208, 12655), (209, 12664), (214, 12685), (215, 12688), (218, 12700), (223, 12718), (236, 12760), (245, 12790), (281, 12931), (294, 12988), (312, 13054), (346, 13114), (349, 13123), (374, 13186), (407, 13252), (504, 13603), (510, 13627), (519, 13666), (523, 13687),

Gene: Milani_20 Start: 12168, Stop: 14459, Start Num: 33
Candidate Starts for Milani_20:

(Start: 33 @12168 has 21 MA's), (55, 12285), (60, 12318), (65, 12345), (100, 12537), (141, 12693), (151, 12744), (158, 12795), (163, 12816), (173, 12873), (184, 12930), (200, 13017), (205, 13044), (210, 13065), (217, 13095), (218, 13098), (249, 13212), (288, 13356), (318, 13464), (332, 13518), (361, 13629), (381, 13707), (388, 13728), (391, 13740), (396, 13761), (403, 13806), (416, 13872), (431, 13938), (439, 13974), (441, 13980), (448, 14007), (455, 14046), (462, 14091), (463, 14094), (465, 14103), (467, 14115), (470, 14124), (471, 14127), (496, 14241), (503, 14292), (504, 14298),

Gene: MortySmith_27 Start: 14047, Stop: 16923, Start Num: 1
Candidate Starts for MortySmith_27:
(Start: 1 @14047 has 44 MA's), (11, 14230), (18, 14281), (22, 14299), (28, 14323), (35, 14398), (42, 14428), (61, 14527), (66, 14557), (67, 14560), (68, 14566), (69, 14578), (86, 14692), (130, 14863), (131, 14872), (139, 14914), (166, 15079), (169, 15091), (172, 15103), (181, 15154), (196, 15232), (248, 15445), (251, 15460), (258, 15493), (261, 15502), (303, 15688), (311, 15718), (327, 15772), (330, 15787), (336, 15805), (337, 15808), (343, 15829), (345, 15832), (349, 15850), (358, 15892), (359, 15895), (360, 15898), (366, 15919), (376, 15952), (386, 15997), (394, 16027), (407, 16102), (432, 16216), (434, 16228), (446, 16276), (447, 16279), (473, 16411), (502, 16564), (505, 16579), (512, 16606), (521, 16645), (528, 16675), (536, 16708), (539, 16738), (549, 16813), (551, 16870), (552, 16873), (553, 16879), (556, 16915),

Gene: NCRodriguez_23 Start: 11633, Stop: 13894, Start Num: 20
Candidate Starts for NCRodriguez_23:
(Start: 20 @11633 has 23 MA's), (Start: 33 @11708 has 21 MA's), (45, 11759), (51, 11786), (66, 11879), (71, 11936), (80, 11978), (84, 12011), (87, 12023), (96, 12074), (97, 12077), (100, 12086), (101, 12089), (107, 12125), (109, 12131), (110, 12134), (113, 12146), (116, 12155), (122, 12179), (138, 12278), (150, 12338), (155, 12377), (157, 12392), (185, 12536), (195, 12587), (200, 12617), (202, 12629), (208, 12653), (209, 12662), (214, 12683), (215, 12686), (218, 12698), (223, 12716), (236, 12758), (245, 12788), (278, 12917), (294, 12986), (303, 13019), (312, 13052), (346, 13112), (349, 13121), (361, 13151), (386, 13211), (424, 13283), (439, 13331), (448, 13364), (456, 13415), (462, 13448), (469, 13481), (470, 13484), (483, 13559), (503, 13658), (504, 13664), (510, 13688), (519, 13727), (523, 13748),

Gene: NarutoRun_29 Start: 14910, Stop: 17786, Start Num: 1
Candidate Starts for NarutoRun_29:
(Start: 1 @14910 has 44 MA's), (11, 15093), (18, 15144), (22, 15162), (28, 15186), (35, 15261), (41, 15285), (45, 15300), (66, 15420), (69, 15441), (73, 15489), (86, 15555), (130, 15726), (131, 15735), (138, 15768), (139, 15777), (143, 15810), (166, 15942), (169, 15954), (172, 15966), (184, 16029), (190, 16065), (212, 16179), (248, 16308), (251, 16323), (258, 16356), (261, 16365), (303, 16551), (321, 16617), (327, 16635), (330, 16650), (336, 16668), (337, 16671), (343, 16692), (345, 16695), (356, 16743), (365, 16779), (366, 16782), (376, 16815), (386, 16860), (400, 16926), (402, 16935), (423, 17043), (432, 17079), (434, 17091), (446, 17139), (447, 17142), (473, 17274), (502, 17427), (505, 17442), (512, 17469), (521, 17508), (528, 17538), (536, 17571), (539, 17601), (549, 17676), (552, 17736), (553, 17742), (555, 17766), (556, 17778),

Gene: Neptune_29 Start: 14887, Stop: 17763, Start Num: 1
Candidate Starts for Neptune_29:
(Start: 1 @14887 has 44 MA's), (11, 15070), (18, 15121), (22, 15139), (28, 15163), (35, 15238), (41, 15262), (45, 15277), (66, 15397), (69, 15418), (73, 15466), (86, 15532), (130, 15703), (131, 15712), (138, 15745), (139, 15754), (143, 15787), (166, 15919), (169, 15931), (172, 15943), (184, 16006), (190, 16042), (212, 16156), (248, 16285), (251, 16300), (258, 16333), (261, 16342), (303, 16528), (321, 16594), (327, 16612), (330, 16627), (336, 16645), (337, 16648), (343, 16669), (345, 16672), (356, 16720), (365, 16756), (366, 16759), (376, 16792), (386, 16837), (400, 16903), (402, 16912), (423, 17020), (432, 17056), (434, 17068), (446, 17116), (447, 17119), (473, 17251), (502, 17404), (505, 17419), (512, 17446), (521, 17485), (528, 17515), (536, 17548), (539, 17578), (549, 17653),

(552, 17713), (553, 17719), (555, 17743), (556, 17755),

Gene: Niblet_16 Start: 10182, Stop: 12410, Start Num: 12
Candidate Starts for Niblet_16:
(Start: 12 @10182 has 52 MA's), (14, 10197), (16, 10218), (29, 10272), (36, 10347), (42, 10377), (43, 10380), (55, 10434), (71, 10560), (76, 10584), (78, 10593), (80, 10602), (93, 10674), (94, 10680), (100, 10710), (101, 10713), (107, 10749), (113, 10770), (119, 10791), (125, 10815), (132, 10869), (133, 10875), (135, 10881), (139, 10911), (140, 10920), (150, 10962), (157, 11016), (165, 11061), (192, 11199), (200, 11241), (206, 11271), (216, 11313), (224, 11343), (246, 11415), (248, 11424), (252, 11445), (268, 11511), (282, 11559), (283, 11562), (290, 11595), (347, 11673), (406, 11742), (434, 11868), (439, 11889), (442, 11898), (484, 12090), (486, 12093), (492, 12117), (531, 12288), (540, 12345), (546, 12399),

Gene: OhDear_29 Start: 14916, Stop: 17792, Start Num: 1
Candidate Starts for OhDear_29:
(Start: 1 @14916 has 44 MA's), (11, 15099), (18, 15150), (22, 15168), (28, 15192), (35, 15267), (41, 15291), (45, 15306), (66, 15426), (69, 15447), (73, 15495), (86, 15561), (130, 15732), (131, 15741), (138, 15774), (139, 15783), (143, 15816), (166, 15948), (169, 15960), (172, 15972), (184, 16035), (190, 16071), (212, 16185), (248, 16314), (251, 16329), (258, 16362), (261, 16371), (303, 16557), (321, 16623), (327, 16641), (330, 16656), (336, 16674), (337, 16677), (343, 16698), (345, 16701), (356, 16749), (365, 16785), (366, 16788), (376, 16821), (386, 16866), (400, 16932), (402, 16941), (432, 17085), (434, 17097), (446, 17145), (447, 17148), (473, 17280), (502, 17433), (505, 17448), (512, 17475), (521, 17514), (528, 17544), (536, 17577), (539, 17607), (549, 17682), (552, 17742), (553, 17748), (555, 17772), (556, 17784),

Gene: Olympi_21 Start: 13480, Stop: 15465, Start Num: 33
Candidate Starts for Olympi_21:
(15, 13381), (Start: 33 @13480 has 21 MA's), (60, 13630), (62, 13645), (65, 13657), (100, 13849), (104, 13873), (126, 13915), (141, 14005), (151, 14056), (162, 14122), (176, 14203), (193, 14293), (198, 14314), (200, 14329), (233, 14455), (249, 14524), (261, 14557), (343, 14755), (378, 14782), (381, 14800), (401, 14854), (410, 14902), (412, 14914), (413, 14920), (429, 14986), (431, 14998), (432, 15001), (475, 15175), (481, 15211), (490, 15241), (500, 15301), (536, 15439),

Gene: Oppalora_15 Start: 9786, Stop: 12074, Start Num: 12
Candidate Starts for Oppalora_15:
(Start: 12 @9786 has 52 MA's), (14, 9798), (16, 9819), (18, 9828), (Start: 20 @9837 has 23 MA's), (40, 9939), (51, 9981), (70, 10119), (81, 10173), (84, 10203), (105, 10305), (107, 10317), (112, 10335), (120, 10359), (125, 10380), (127, 10401), (140, 10482), (141, 10485), (142, 10494), (144, 10506), (168, 10626), (174, 10656), (183, 10698), (211, 10824), (218, 10848), (224, 10869), (239, 10917), (243, 10929), (246, 10941), (248, 10950), (254, 10977), (264, 11013), (266, 11025), (267, 11028), (268, 11037), (282, 11085), (286, 11106), (343, 11271), (410, 11418), (411, 11427), (427, 11490), (430, 11502), (444, 11565), (468, 11688), (484, 11748), (488, 11754), (492, 11775), (507, 11850), (546, 12066),

Gene: Orcanus_16 Start: 10174, Stop: 12324, Start Num: 12
Candidate Starts for Orcanus_16:
(Start: 12 @10174 has 52 MA's), (16, 10210), (Start: 20 @10228 has 23 MA's), (24, 10249), (51, 10369), (59, 10420), (76, 10540), (81, 10561), (94, 10636), (107, 10705), (112, 10723), (120, 10747), (127, 10789), (140, 10870), (141, 10873), (142, 10882), (144, 10894), (168, 11014), (183, 11086), (209, 11200), (211, 11212), (222, 11248), (245, 11326), (247, 11335), (268, 11425), (282, 11473), (286, 11494), (294, 11527), (311, 11587), (406, 11656), (409, 11671), (442, 11812), (468, 11944), (480, 11998), (484, 12004), (486, 12007), (492, 12031), (510, 12118), (531, 12202), (540, 12259), (546, 12313),

Gene: OtsoOtso_16 Start: 10214, Stop: 12352, Start Num: 12
Candidate Starts for OtsoOtso_16:
(Start: 12 @10214 has 52 MA's), (16, 10250), (17, 10256), (Start: 20 @10268 has 23 MA's), (42, 10373), (70, 10538), (72, 10559), (95, 10673), (107, 10736), (120, 10778), (125, 10799), (127, 10820), (140, 10901), (141, 10904), (142, 10913), (144, 10925), (145, 10928), (168, 11045), (174, 11075), (183, 11117), (186, 11126), (211, 11243), (220, 11276), (228, 11303), (236, 11327), (240, 11339), (243, 11348), (245, 11357), (254, 11396), (264, 11432), (266, 11444), (268, 11456), (274, 11477), (282, 11504), (289, 11537), (292, 11552), (411, 11714), (417, 11738), (427, 11777), (434, 11813), (457, 11921), (468, 11975), (488, 12041), (492, 12062), (531, 12233), (538, 12266), (539, 12278), (544, 12323), (546, 12344),

Gene: OverHedge_29 Start: 14877, Stop: 17753, Start Num: 1
Candidate Starts for OverHedge_29:
(Start: 1 @14877 has 44 MA's), (11, 15060), (18, 15111), (22, 15129), (28, 15153), (35, 15228), (41, 15252), (45, 15267), (66, 15387), (69, 15408), (73, 15456), (86, 15522), (130, 15693), (131, 15702), (138, 15735), (139, 15744), (143, 15777), (166, 15909), (169, 15921), (172, 15933), (184, 15996), (190, 16032), (212, 16146), (248, 16275), (251, 16290), (258, 16323), (261, 16332), (303, 16518), (321, 16584), (327, 16602), (330, 16617), (336, 16635), (337, 16638), (343, 16659), (345, 16662), (356, 16710), (365, 16746), (366, 16749), (376, 16782), (386, 16827), (400, 16893), (402, 16902), (423, 17010), (432, 17046), (434, 17058), (446, 17106), (447, 17109), (473, 17241), (502, 17394), (505, 17409), (512, 17436), (521, 17475), (528, 17505), (536, 17538), (539, 17568), (549, 17643), (552, 17703), (553, 17709), (555, 17733), (556, 17745),

Gene: PapayaSalad_16 Start: 9786, Stop: 12203, Start Num: 3
Candidate Starts for PapayaSalad_16:
(Start: 3 @9786 has 9 MA's), (5, 9798), (7, 9852), (9, 9873), (52, 10047), (55, 10068), (64, 10125), (83, 10260), (92, 10302), (100, 10344), (101, 10347), (103, 10359), (123, 10437), (132, 10500), (142, 10563), (146, 10581), (150, 10593), (157, 10647), (159, 10656), (166, 10701), (167, 10704), (185, 10785), (201, 10872), (202, 10875), (212, 10923), (217, 10941), (222, 10959), (225, 10971), (257, 11082), (269, 11139), (279, 11175), (284, 11196), (291, 11229), (293, 11235), (302, 11268), (309, 11289), (319, 11322), (338, 11346), (363, 11421), (463, 11823), (472, 11847), (476, 11868), (493, 11922), (506, 11985), (510, 12000), (521, 12045),

Gene: Parvaparticeps_35 Start: 26694, Stop: 24370, Start Num: 20
Candidate Starts for Parvaparticeps_35:
(Start: 20 @26694 has 23 MA's), (44, 26571), (45, 26568), (55, 26517), (59, 26490), (61, 26478), (72, 26379), (75, 26370), (80, 26349), (87, 26304), (100, 26241), (101, 26238), (110, 26193), (125, 26136), (126, 26118), (132, 26082), (142, 26019), (150, 25989), (157, 25935), (206, 25680), (216, 25638), (218, 25629), (237, 25566), (240, 25557), (242, 25551), (243, 25548), (257, 25494), (276, 25401), (286, 25362), (289, 25350), (294, 25329), (310, 25269), (316, 25248), (350, 25185), (362, 25158), (393, 25074), (403, 25020), (416, 24954), (457, 24765), (474, 24702), (477, 24687), (483, 24669), (485, 24666), (494, 24642), (507, 24573), (513, 24552), (530, 24468), (537, 24435), (541, 24402),

Gene: Pelletreau_17 Start: 10380, Stop: 12530, Start Num: 12
Candidate Starts for Pelletreau_17:
(Start: 12 @10380 has 52 MA's), (16, 10416), (Start: 20 @10434 has 23 MA's), (24, 10455), (51, 10575), (59, 10626), (76, 10746), (94, 10842), (107, 10911), (112, 10929), (120, 10953), (127, 10995), (140, 11076), (141, 11079), (142, 11088), (144, 11100), (168, 11220), (174, 11250), (183, 11292), (209, 11406), (211, 11418), (222, 11454), (245, 11532), (247, 11541), (268, 11631), (282, 11679), (286, 11700), (294, 11733), (311, 11793), (406, 11862), (409, 11877), (442, 12018), (492, 12237), (510, 12324), (531, 12408), (540, 12465), (546, 12519),

Gene: PermaG_20 Start: 13551, Stop: 15539, Start Num: 33
Candidate Starts for PermaG_20:
(Start: 33 @13551 has 21 MA's), (38, 13590), (60, 13701), (62, 13716), (65, 13728), (100, 13920), (104, 13944), (126, 13986), (141, 14076), (142, 14085), (151, 14127), (162, 14193), (176, 14274), (179, 14289), (184, 14313), (198, 14385), (200, 14400), (223, 14502), (233, 14526), (249, 14595), (261, 14628), (285, 14694), (343, 14826), (378, 14853), (401, 14925), (407, 14958), (412, 14985), (413, 14991), (421, 15024), (475, 15246), (481, 15282), (490, 15312), (500, 15372), (536, 15513),

Gene: Pharpay_29 Start: 14932, Stop: 17808, Start Num: 1
Candidate Starts for Pharpay_29:
(Start: 1 @14932 has 44 MA's), (11, 15115), (18, 15166), (22, 15184), (28, 15208), (35, 15283), (41, 15307), (45, 15322), (66, 15442), (69, 15463), (73, 15511), (86, 15577), (130, 15748), (131, 15757), (138, 15790), (139, 15799), (143, 15832), (166, 15964), (169, 15976), (172, 15988), (184, 16051), (190, 16087), (212, 16201), (248, 16330), (251, 16345), (258, 16378), (261, 16387), (303, 16573), (321, 16639), (327, 16657), (330, 16672), (336, 16690), (337, 16693), (343, 16714), (345, 16717), (356, 16765), (365, 16801), (366, 16804), (376, 16837), (386, 16882), (400, 16948), (402, 16957), (432, 17101), (434, 17113), (446, 17161), (447, 17164), (473, 17296), (502, 17449), (505, 17464), (512, 17491), (521, 17530), (528, 17560), (536, 17593), (539, 17623), (549, 17698), (552, 17758), (553, 17764), (555, 17788), (556, 17800),

Gene: PhillyJawn_22 Start: 11367, Stop: 13565, Start Num: 20
Candidate Starts for PhillyJawn_22:
(Start: 20 @11367 has 23 MA's), (Start: 33 @11442 has 21 MA's), (45, 11493), (51, 11520), (66, 11613), (71, 11670), (80, 11712), (84, 11745), (87, 11757), (96, 11808), (97, 11811), (100, 11820), (101, 11823), (107, 11859), (109, 11865), (110, 11868), (113, 11880), (116, 11889), (122, 11913), (138, 12012), (150, 12072), (155, 12111), (157, 12126), (167, 12183), (195, 12321), (200, 12351), (202, 12363), (208, 12387), (209, 12396), (214, 12417), (215, 12420), (218, 12432), (223, 12450), (281, 12663), (294, 12720), (312, 12786), (346, 12846), (349, 12855), (374, 12918), (407, 12984), (424, 13017), (504, 13335), (510, 13359), (519, 13398), (523, 13419),

Gene: Phingu_24 Start: 11523, Stop: 13784, Start Num: 20
Candidate Starts for Phingu_24:
(Start: 20 @11523 has 23 MA's), (Start: 33 @11598 has 21 MA's), (45, 11649), (51, 11676), (66, 11769), (71, 11826), (80, 11868), (84, 11901), (87, 11913), (96, 11964), (97, 11967), (100, 11976), (101, 11979), (107, 12015), (109, 12021), (110, 12024), (113, 12036), (116, 12045), (122, 12069), (138, 12168), (150, 12228), (155, 12267), (157, 12282), (167, 12339), (195, 12477), (200, 12507), (202, 12519), (208, 12543), (209, 12552), (214, 12573), (215, 12576), (218, 12588), (223, 12606), (236, 12648), (245, 12678), (282, 12822), (294, 12876), (312, 12942), (346, 13002), (349, 13011), (374, 13074), (386, 13101), (424, 13173), (439, 13221), (448, 13254), (456, 13305), (462, 13338), (469, 13371), (470, 13374), (483, 13449), (503, 13548), (504, 13554), (510, 13578), (519, 13617), (523, 13638),

Gene: PhirstandPhine_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for PhirstandPhine_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233), (183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: PhluffyCoco_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for PhluffyCoco_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (430, 11504), (444, 11567), (454, 11615), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: Phonegingi_21 Start: 11365, Stop: 13626, Start Num: 20
Candidate Starts for Phonegingi_21:
(Start: 20 @11365 has 23 MA's), (Start: 33 @11440 has 21 MA's), (45, 11491), (51, 11518), (66, 11611), (72, 11680), (80, 11710), (84, 11743), (87, 11755), (96, 11806), (97, 11809), (100, 11818), (101, 11821), (107, 11857), (109, 11863), (110, 11866), (113, 11878), (116, 11887), (138, 12010), (150, 12070), (155, 12109), (157, 12124), (167, 12181), (185, 12268), (195, 12319), (200, 12349), (202, 12361), (208, 12385), (209, 12394), (211, 12406), (214, 12415), (215, 12418), (218, 12430), (235, 12487), (236, 12490), (245, 12520), (278, 12649), (294, 12718), (303, 12751), (312, 12784), (316, 12799), (346, 12844), (349, 12853), (386, 12943), (424, 13015), (439, 13063), (448, 13096), (456, 13147), (462, 13180), (469, 13213), (470, 13216), (483, 13291), (504, 13396), (510, 13420), (519, 13459),

Gene: PhunaPhoke_29 Start: 14905, Stop: 17781, Start Num: 1
Candidate Starts for PhunaPhoke_29:
(Start: 1 @14905 has 44 MA's), (11, 15088), (18, 15139), (22, 15157), (28, 15181), (35, 15256), (41, 15280), (45, 15295), (66, 15415), (69, 15436), (73, 15484), (86, 15550), (130, 15721), (131, 15730), (138, 15763), (139, 15772), (143, 15805), (166, 15937), (169, 15949), (172, 15961), (184, 16024), (190, 16060), (212, 16174), (248, 16303), (251, 16318), (258, 16351), (261, 16360), (303, 16546), (321, 16612), (327, 16630), (330, 16645), (336, 16663), (337, 16666), (343, 16687), (345, 16690), (356, 16738), (365, 16774), (366, 16777), (376, 16810), (386, 16855), (400, 16921), (402, 16930), (432, 17074), (434, 17086), (446, 17134), (447, 17137), (473, 17269), (502, 17422), (505, 17437), (512, 17464), (521, 17503), (528, 17533), (536, 17566), (539, 17596), (549, 17671), (552, 17731), (553, 17737), (555, 17761), (556, 17773),

Gene: Pickles13_21 Start: 11528, Stop: 13990, Start Num: 20
Candidate Starts for Pickles13_21:
(Start: 20 @11528 has 23 MA's), (Start: 33 @11603 has 21 MA's), (39, 11633), (47, 11666), (51, 11681), (61, 11744), (66, 11774), (69, 11795), (71, 11831), (80, 11873), (84, 11906), (87, 11918), (96, 11969), (97, 11972), (101, 11984), (107, 12020), (109, 12026), (110, 12029), (113, 12041), (116, 12050), (122, 12074), (135, 12152), (150, 12233), (155, 12272), (157, 12287), (160, 12299), (167, 12344), (171, 12362), (182, 12425), (185, 12431), (195, 12482), (200, 12512), (202, 12524), (208, 12548), (209, 12557), (214, 12578), (215, 12581), (218, 12593), (223, 12611), (226, 12623), (236, 12653), (249, 12701), (254, 12719), (274, 12800), (276, 12809), (282, 12827), (341, 13043), (350, 13076), (371, 13151), (390, 13253), (395, 13271), (403, 13322), (405, 13337), (415, 13385), (434, 13469), (457, 13577), (504, 13760), (510, 13784), (519, 13823), (522, 13838), (533, 13886), (543, 13964),

Gene: Pineda_17 Start: 10375, Stop: 12510, Start Num: 12
Candidate Starts for Pineda_17:
(Start: 12 @10375 has 52 MA's), (16, 10408), (17, 10414), (Start: 20 @10426 has 23 MA's), (42, 10531), (70, 10696), (72, 10717), (95, 10831), (107, 10894), (120, 10936), (125, 10957), (127, 10978), (140, 11059), (141, 11062), (142, 11071), (144, 11083), (145, 11086), (168, 11203), (174, 11233),

(183, 11275), (186, 11284), (211, 11401), (220, 11434), (228, 11461), (236, 11485), (240, 11497), (243, 11506), (245, 11515), (254, 11554), (264, 11590), (266, 11602), (268, 11614), (274, 11635), (282, 11662), (289, 11695), (292, 11710), (411, 11872), (417, 11896), (427, 11935), (434, 11971), (457, 12079), (468, 12133), (488, 12199), (492, 12220), (531, 12391), (538, 12424), (539, 12436), (544, 12481), (546, 12502),

Gene: Polka_16 Start: 10214, Stop: 12352, Start Num: 12
Candidate Starts for Polka_16:
(Start: 12 @10214 has 52 MA's), (16, 10250), (17, 10256), (Start: 20 @10268 has 23 MA's), (42, 10373), (70, 10538), (72, 10559), (95, 10673), (107, 10736), (120, 10778), (125, 10799), (127, 10820), (140, 10901), (141, 10904), (142, 10913), (144, 10925), (145, 10928), (168, 11045), (174, 11075), (183, 11117), (186, 11126), (211, 11243), (220, 11276), (228, 11303), (236, 11327), (240, 11339), (243, 11348), (245, 11357), (254, 11396), (264, 11432), (266, 11444), (268, 11456), (274, 11477), (282, 11504), (289, 11537), (292, 11552), (411, 11714), (417, 11738), (427, 11777), (434, 11813), (457, 11921), (468, 11975), (488, 12041), (492, 12062), (531, 12233), (538, 12266), (539, 12278), (544, 12323), (546, 12344),

Gene: Potty_29 Start: 14910, Stop: 17786, Start Num: 1
Candidate Starts for Potty_29:
(Start: 1 @14910 has 44 MA's), (11, 15093), (18, 15144), (22, 15162), (28, 15186), (35, 15261), (41, 15285), (45, 15300), (66, 15420), (69, 15441), (73, 15489), (86, 15555), (130, 15726), (131, 15735), (138, 15768), (139, 15777), (143, 15810), (166, 15942), (169, 15954), (172, 15966), (184, 16029), (190, 16065), (212, 16179), (248, 16308), (251, 16323), (258, 16356), (261, 16365), (303, 16551), (321, 16617), (327, 16635), (330, 16650), (336, 16668), (337, 16671), (343, 16692), (345, 16695), (356, 16743), (365, 16779), (366, 16782), (376, 16815), (386, 16860), (400, 16926), (402, 16935), (423, 17043), (432, 17079), (434, 17091), (446, 17139), (447, 17142), (473, 17274), (502, 17427), (505, 17442), (512, 17469), (521, 17508), (528, 17538), (536, 17571), (539, 17601), (549, 17676), (552, 17736), (553, 17742), (555, 17766), (556, 17778),

Gene: Poultress_28 Start: 14674, Stop: 17550, Start Num: 1
Candidate Starts for Poultress_28:
(Start: 1 @14674 has 44 MA's), (11, 14857), (18, 14908), (22, 14926), (28, 14950), (35, 15025), (41, 15049), (45, 15064), (66, 15184), (69, 15205), (73, 15253), (86, 15319), (130, 15490), (131, 15499), (138, 15532), (139, 15541), (143, 15574), (166, 15706), (169, 15718), (172, 15730), (184, 15793), (190, 15829), (212, 15943), (248, 16072), (251, 16087), (258, 16120), (261, 16129), (303, 16315), (311, 16345), (330, 16414), (336, 16432), (337, 16435), (343, 16456), (345, 16459), (356, 16507), (366, 16546), (376, 16579), (386, 16624), (398, 16675), (402, 16699), (403, 16708), (423, 16807), (432, 16843), (434, 16855), (447, 16906), (466, 17008), (502, 17191), (505, 17206), (512, 17233), (521, 17272), (528, 17302), (536, 17335), (539, 17365), (549, 17440), (552, 17500), (553, 17506), (555, 17530), (556, 17542),

Gene: Rachella_29 Start: 14913, Stop: 17789, Start Num: 1
Candidate Starts for Rachella_29:
(Start: 1 @14913 has 44 MA's), (11, 15096), (18, 15147), (22, 15165), (28, 15189), (35, 15264), (41, 15288), (45, 15303), (66, 15423), (69, 15444), (73, 15492), (86, 15558), (130, 15729), (131, 15738), (138, 15771), (139, 15780), (143, 15813), (166, 15945), (169, 15957), (172, 15969), (184, 16032), (190, 16068), (212, 16182), (248, 16311), (251, 16326), (258, 16359), (261, 16368), (303, 16554), (321, 16620), (327, 16638), (330, 16653), (336, 16671), (337, 16674), (343, 16695), (345, 16698), (356, 16746), (365, 16782), (366, 16785), (376, 16818), (386, 16863), (400, 16929), (402, 16938), (423, 17046), (432, 17082), (434, 17094), (446, 17142), (447, 17145), (473, 17277), (502, 17430), (505, 17445), (512, 17472), (521, 17511), (528, 17541), (536, 17574), (539, 17604), (549, 17679), (552, 17739), (553, 17745), (555, 17769), (556, 17781),

Gene: Rasovi_19 Start: 13514, Stop: 15508, Start Num: 33
Candidate Starts for Rasovi_19:
(Start: 33 @13514 has 21 MA's), (38, 13553), (60, 13664), (62, 13679), (65, 13691), (82, 13805), (100, 13883), (104, 13907), (141, 14039), (151, 14090), (162, 14156), (179, 14252), (200, 14363), (233, 14489), (248, 14549), (253, 14573), (261, 14591), (277, 14624), (330, 14771), (343, 14789), (379, 14822), (383, 14837), (404, 14903), (446, 15062), (448, 15068), (449, 15074), (462, 15152), (466, 15167), (475, 15209), (490, 15275), (501, 15344), (536, 15482),

Gene: Rattail_15 Start: 9839, Stop: 12127, Start Num: 12
Candidate Starts for Rattail_15:
(Start: 12 @9839 has 52 MA's), (14, 9851), (16, 9872), (18, 9881), (Start: 20 @9890 has 23 MA's), (40, 9992), (51, 10034), (70, 10172), (81, 10226), (84, 10256), (107, 10370), (112, 10388), (120, 10412), (125, 10433), (127, 10454), (140, 10535), (141, 10538), (142, 10547), (144, 10559), (168, 10679), (174, 10709), (183, 10751), (211, 10877), (218, 10901), (224, 10922), (246, 10994), (254, 11030), (264, 11066), (266, 11078), (268, 11090), (274, 11111), (282, 11138), (286, 11159), (343, 11324), (410, 11471), (411, 11480), (427, 11543), (430, 11555), (444, 11618), (468, 11741), (484, 11801), (488, 11807), (492, 11828), (507, 11903), (546, 12119),

Gene: RedFox_15 Start: 9788, Stop: 12076, Start Num: 12
Candidate Starts for RedFox_15:
(Start: 12 @9788 has 52 MA's), (14, 9800), (16, 9821), (18, 9830), (Start: 20 @9839 has 23 MA's), (40, 9941), (51, 9983), (70, 10121), (81, 10175), (84, 10205), (105, 10307), (107, 10319), (112, 10337), (120, 10361), (125, 10382), (127, 10403), (140, 10484), (141, 10487), (142, 10496), (144, 10508), (168, 10628), (174, 10658), (183, 10700), (211, 10826), (218, 10850), (224, 10871), (239, 10919), (243, 10931), (246, 10943), (248, 10952), (254, 10979), (264, 11015), (266, 11027), (267, 11030), (268, 11039), (282, 11087), (286, 11108), (343, 11273), (410, 11420), (411, 11429), (427, 11492), (444, 11567), (468, 11690), (484, 11750), (488, 11756), (492, 11777), (507, 11852), (546, 12068),

Gene: RemusLoopin_12 Start: 8193, Stop: 10382, Start Num: 19
Candidate Starts for RemusLoopin_12:
(Start: 19 @8193 has 9 MA's), (53, 8343), (55, 8361), (61, 8400), (69, 8451), (70, 8478), (83, 8553), (88, 8577), (100, 8637), (103, 8652), (122, 8727), (132, 8793), (140, 8844), (157, 8940), (177, 9048), (185, 9078), (202, 9168), (264, 9405), (269, 9432), (284, 9489), (297, 9546), (301, 9558), (309, 9582), (319, 9615), (338, 9639), (398, 9813), (419, 9915), (457, 10089), (480, 10185), (489, 10206), (514, 10311),

Gene: Renna12_16 Start: 9997, Stop: 12417, Start Num: 12
Candidate Starts for Renna12_16:
(Start: 12 @9997 has 52 MA's), (14, 10009), (16, 10030), (18, 10039), (Start: 20 @10048 has 23 MA's), (40, 10150), (51, 10192), (70, 10330), (81, 10384), (84, 10414), (107, 10528), (112, 10546), (120, 10570), (125, 10591), (127, 10612), (140, 10693), (141, 10696), (142, 10705), (144, 10717), (174, 10867), (183, 10909), (211, 11035), (218, 11059), (222, 11071), (224, 11080), (239, 11128), (246, 11152), (248, 11161), (254, 11188), (264, 11224), (266, 11236), (282, 11296), (305, 11395), (382, 11614), (427, 11833), (444, 11908), (488, 12097), (492, 12118), (507, 12193), (531, 12298), (546, 12409),

Gene: Rie18_29 Start: 14255, Stop: 17302, Start Num: 1
Candidate Starts for Rie18_29:
(Start: 1 @14255 has 44 MA's), (11, 14438), (18, 14489), (22, 14507), (28, 14531), (35, 14606), (41, 14630), (45, 14645), (69, 14786), (73, 14834), (86, 14900), (114, 15047), (115, 15095), (121, 15131), (130, 15242), (131, 15251), (136, 15269), (138, 15284), (166, 15458), (169, 15470), (172, 15482), (194, 15599), (197, 15614), (203, 15650), (212, 15695), (248, 15824), (251, 15839), (258, 15872), (261, 15881), (303, 16067), (311, 16097), (321, 16133), (330, 16166), (336, 16184), (345, 16211),

(356, 16259), (365, 16295), (366, 16298), (373, 16319), (376, 16331), (386, 16376), (398, 16427), (402, 16451), (403, 16460), (432, 16595), (434, 16607), (446, 16655), (447, 16658), (457, 16715), (461, 16739), (467, 16769), (502, 16943), (505, 16958), (512, 16985), (521, 17024), (528, 17054), (536, 17087), (539, 17117), (549, 17192), (552, 17252), (553, 17258), (555, 17282), (556, 17294),

Gene: RikSengupta_30 Start: 14882, Stop: 17701, Start Num: 1
Candidate Starts for RikSengupta_30:
(Start: 1 @14882 has 44 MA's), (6, 15002), (10, 15062), (18, 15116), (22, 15134), (28, 15158), (35, 15233), (45, 15272), (61, 15362), (71, 15446), (73, 15461), (76, 15467), (89, 15539), (98, 15590), (100, 15596), (107, 15635), (139, 15749), (150, 15803), (158, 15866), (165, 15905), (166, 15914), (175, 15959), (185, 16004), (210, 16139), (238, 16244), (243, 16259), (245, 16265), (246, 16268), (249, 16286), (250, 16289), (261, 16307), (303, 16460), (318, 16511), (322, 16529), (327, 16544), (328, 16556), (330, 16559), (356, 16652), (359, 16667), (361, 16676), (366, 16691), (372, 16709), (373, 16712), (376, 16724), (386, 16769), (403, 16853), (404, 16856), (425, 16955), (431, 16985), (446, 17048), (447, 17051), (450, 17063), (487, 17249), (495, 17285), (502, 17336), (512, 17378), (521, 17417), (528, 17447), (536, 17480), (539, 17510), (545, 17549), (552, 17648), (553, 17654), (555, 17678),

Gene: Rootkit7_19 Start: 13340, Stop: 15328, Start Num: 33
Candidate Starts for Rootkit7_19:
(Start: 33 @13340 has 21 MA's), (38, 13379), (60, 13490), (62, 13505), (65, 13517), (100, 13709), (104, 13733), (151, 13916), (162, 13982), (179, 14078), (184, 14102), (200, 14189), (223, 14291), (233, 14315), (249, 14384), (261, 14417), (326, 14582), (343, 14615), (378, 14642), (381, 14660), (410, 14762), (412, 14774), (413, 14780), (432, 14861), (475, 15035), (490, 15101), (500, 15161), (501, 15170), (536, 15302),

Gene: Ruchi_16 Start: 10744, Stop: 13149, Start Num: 12
Candidate Starts for Ruchi_16:
(Start: 12 @10744 has 52 MA's), (16, 10780), (Start: 20 @10798 has 23 MA's), (29, 10834), (39, 10909), (49, 10954), (64, 11041), (66, 11053), (91, 11212), (92, 11221), (117, 11329), (118, 11335), (132, 11416), (140, 11470), (148, 11509), (182, 11710), (188, 11746), (200, 11800), (212, 11860), (213, 11863), (220, 11890), (229, 11920), (245, 11974), (254, 12013), (258, 12031), (264, 12049), (274, 12097), (286, 12142), (301, 12202), (304, 12214), (310, 12235), (311, 12238), (317, 12256), (329, 12271), (331, 12274), (335, 12280), (339, 12289), (342, 12301), (344, 12307), (348, 12322), (351, 12331), (365, 12373), (372, 12385), (377, 12403), (384, 12436), (410, 12505), (411, 12514), (412, 12517), (417, 12538), (426, 12574), (439, 12634), (444, 12652), (492, 12862), (531, 13027), (540, 13084),

Gene: SBlackberry_19 Start: 13346, Stop: 15334, Start Num: 33
Candidate Starts for SBlackberry_19:
(Start: 33 @13346 has 21 MA's), (38, 13385), (60, 13496), (62, 13511), (65, 13523), (100, 13715), (104, 13739), (151, 13922), (162, 13988), (179, 14084), (184, 14108), (200, 14195), (223, 14297), (233, 14321), (249, 14390), (261, 14423), (326, 14588), (343, 14621), (378, 14648), (381, 14666), (410, 14768), (412, 14780), (413, 14786), (432, 14867), (475, 15041), (490, 15107), (500, 15167), (501, 15176), (536, 15308),

Gene: SV1_16 Start: 10022, Stop: 12439, Start Num: 3
Candidate Starts for SV1_16:
(Start: 3 @10022 has 9 MA's), (5, 10034), (7, 10088), (9, 10109), (52, 10283), (55, 10304), (61, 10343), (69, 10394), (83, 10496), (92, 10538), (99, 10577), (100, 10580), (101, 10583), (123, 10673), (132, 10736), (142, 10799), (146, 10817), (150, 10829), (157, 10883), (167, 10940), (185, 11021), (201, 11108), (202, 11111), (212, 11159), (217, 11177), (225, 11207), (284, 11432), (293, 11471), (296, 11486), (309, 11525), (319, 11558), (338, 11582), (385, 11708), (403, 11780), (452, 12002), (458,

12038), (463, 12059), (472, 12083), (476, 12104), (484, 12131), (492, 12155), (493, 12158), (506, 12221), (507, 12224), (510, 12236), (521, 12281),

Gene: SafetyGuy_29 Start: 14916, Stop: 17792, Start Num: 1
Candidate Starts for SafetyGuy_29:
(Start: 1 @14916 has 44 MA's), (11, 15099), (18, 15150), (22, 15168), (28, 15192), (35, 15267), (41, 15291), (45, 15306), (66, 15426), (69, 15447), (73, 15495), (86, 15561), (130, 15732), (131, 15741), (138, 15774), (139, 15783), (143, 15816), (166, 15948), (169, 15960), (172, 15972), (184, 16035), (190, 16071), (212, 16185), (248, 16314), (251, 16329), (258, 16362), (261, 16371), (303, 16557), (321, 16623), (327, 16641), (330, 16656), (336, 16674), (337, 16677), (343, 16698), (345, 16701), (356, 16749), (365, 16785), (366, 16788), (376, 16821), (386, 16866), (400, 16932), (402, 16941), (423, 17049), (432, 17085), (434, 17097), (446, 17145), (447, 17148), (473, 17280), (502, 17433), (505, 17448), (512, 17475), (521, 17514), (528, 17544), (536, 17577), (539, 17607), (549, 17682), (552, 17742), (553, 17748), (555, 17772), (556, 17784),

Gene: Samora_12 Start: 8227, Stop: 10419, Start Num: 19
Candidate Starts for Samora_12:
(Start: 19 @8227 has 9 MA's), (26, 8254), (31, 8272), (69, 8485), (70, 8512), (79, 8560), (83, 8587), (88, 8611), (100, 8671), (101, 8674), (103, 8686), (123, 8764), (132, 8827), (140, 8878), (151, 8932), (154, 8953), (157, 8974), (177, 9082), (185, 9112), (202, 9202), (279, 9502), (309, 9616), (319, 9649), (338, 9673), (349, 9712), (351, 9718), (398, 9847), (409, 9904), (416, 9937), (457, 10123), (480, 10219), (497, 10273), (501, 10297),

Gene: ScoobySnack_20 Start: 11232, Stop: 13694, Start Num: 20
Candidate Starts for ScoobySnack_20:
(Start: 20 @11232 has 23 MA's), (Start: 33 @11307 has 21 MA's), (45, 11358), (51, 11385), (69, 11499), (80, 11577), (84, 11610), (87, 11622), (96, 11673), (97, 11676), (100, 11685), (101, 11688), (107, 11724), (109, 11730), (110, 11733), (113, 11745), (116, 11754), (122, 11778), (138, 11877), (150, 11937), (155, 11976), (157, 11991), (195, 12186), (200, 12216), (202, 12228), (208, 12252), (209, 12261), (213, 12279), (214, 12282), (215, 12285), (218, 12297), (223, 12315), (226, 12327), (249, 12405), (254, 12423), (276, 12513), (282, 12531), (315, 12663), (341, 12747), (350, 12780), (361, 12828), (390, 12957), (416, 13092), (434, 13173), (448, 13227), (455, 13266), (457, 13281), (494, 13407), (504, 13464), (510, 13488), (516, 13506),

Gene: Sebastisaurus_12 Start: 8219, Stop: 10408, Start Num: 19
Candidate Starts for Sebastisaurus_12:
(Start: 19 @8219 has 9 MA's), (53, 8369), (55, 8387), (61, 8426), (66, 8456), (69, 8477), (70, 8504), (83, 8579), (88, 8603), (100, 8663), (103, 8678), (122, 8753), (132, 8819), (157, 8966), (177, 9074), (185, 9104), (196, 9161), (202, 9194), (264, 9431), (269, 9458), (284, 9515), (297, 9572), (301, 9584), (309, 9608), (319, 9641), (338, 9665), (398, 9839), (416, 9929), (419, 9941), (446, 10049), (451, 10082), (457, 10115), (464, 10151), (480, 10211), (491, 10235), (511, 10328), (514, 10337),

Gene: Shawty_12 Start: 8222, Stop: 10411, Start Num: 19
Candidate Starts for Shawty_12:
(Start: 19 @8222 has 9 MA's), (26, 8249), (58, 8414), (61, 8429), (69, 8480), (70, 8507), (83, 8582), (88, 8606), (100, 8666), (103, 8681), (111, 8717), (122, 8756), (132, 8822), (140, 8873), (154, 8948), (157, 8969), (169, 9035), (178, 9083), (185, 9107), (196, 9164), (202, 9197), (237, 9332), (271, 9464), (273, 9476), (279, 9497), (306, 9605), (309, 9611), (313, 9626), (319, 9644), (338, 9668), (350, 9710), (353, 9722), (392, 9815), (398, 9842), (416, 9932), (451, 10085), (457, 10118), (480, 10214),

Gene: Shen_17 Start: 10381, Stop: 12531, Start Num: 12
Candidate Starts for Shen_17:

(Start: 12 @10381 has 52 MA's), (16, 10417), (Start: 20 @10435 has 23 MA's), (24, 10456), (51, 10576), (59, 10627), (76, 10747), (94, 10843), (107, 10912), (112, 10930), (120, 10954), (127, 10996), (140, 11077), (141, 11080), (142, 11089), (144, 11101), (168, 11221), (174, 11251), (183, 11293), (209, 11407), (211, 11419), (222, 11455), (245, 11533), (247, 11542), (268, 11632), (282, 11680), (286, 11701), (294, 11734), (311, 11794), (406, 11863), (409, 11878), (442, 12019), (466, 12139), (492, 12238), (510, 12325), (531, 12409), (540, 12466), (546, 12520),

Gene: Shrew_62 Start: 29859, Stop: 32717, Start Num: 2
Candidate Starts for Shrew_62:
(Start: 2 @29859 has 1 MA's), (11, 30030), (28, 30126), (63, 30345), (68, 30369), (98, 30558), (100, 30564), (108, 30606), (139, 30717), (149, 30771), (156, 30822), (174, 30924), (185, 30972), (201, 31068), (207, 31092), (248, 31233), (263, 31281), (315, 31461), (333, 31521), (340, 31542), (353, 31581), (366, 31635), (379, 31686), (397, 31761), (399, 31767), (413, 31851), (414, 31854), (427, 31908), (428, 31911), (433, 31941), (438, 31962), (440, 31965), (443, 31974), (445, 31986), (457, 32052), (460, 32070), (466, 32097), (475, 32139), (478, 32160), (502, 32280), (504, 32292), (525, 32385), (528, 32391), (529, 32403), (535, 32421), (542, 32475), (548, 32532), (550, 32577), (554, 32613), (557, 32709),

Gene: SilentWarrior_28 Start: 14080, Stop: 16956, Start Num: 1
Candidate Starts for SilentWarrior_28:
(Start: 1 @14080 has 44 MA's), (11, 14263), (18, 14314), (22, 14332), (28, 14356), (35, 14431), (41, 14455), (45, 14470), (66, 14590), (69, 14611), (73, 14659), (86, 14725), (130, 14896), (131, 14905), (138, 14938), (139, 14947), (143, 14980), (166, 15112), (169, 15124), (172, 15136), (181, 15187), (190, 15235), (212, 15349), (248, 15478), (251, 15493), (258, 15526), (261, 15535), (303, 15721), (324, 15796), (327, 15805), (330, 15820), (336, 15838), (337, 15841), (343, 15862), (345, 15865), (349, 15883), (358, 15925), (359, 15928), (360, 15931), (366, 15952), (376, 15985), (386, 16030), (394, 16060), (407, 16135), (432, 16249), (434, 16261), (446, 16309), (447, 16312), (473, 16444), (502, 16597), (505, 16612), (512, 16639), (521, 16678), (528, 16708), (536, 16741), (539, 16771), (549, 16846), (551, 16903), (552, 16906), (553, 16912), (556, 16948),

Gene: Snakehole_29 Start: 14169, Stop: 17045, Start Num: 1
Candidate Starts for Snakehole_29:
(Start: 1 @14169 has 44 MA's), (11, 14352), (18, 14403), (22, 14421), (28, 14445), (35, 14520), (41, 14544), (45, 14559), (66, 14679), (69, 14700), (73, 14748), (86, 14814), (130, 14985), (131, 14994), (138, 15027), (139, 15036), (143, 15069), (166, 15201), (169, 15213), (172, 15225), (184, 15288), (190, 15324), (212, 15438), (248, 15567), (251, 15582), (258, 15615), (261, 15624), (303, 15810), (324, 15885), (327, 15894), (330, 15909), (336, 15927), (337, 15930), (343, 15951), (345, 15954), (349, 15972), (358, 16014), (359, 16017), (360, 16020), (366, 16041), (376, 16074), (386, 16119), (394, 16149), (407, 16224), (418, 16281), (432, 16338), (434, 16350), (446, 16398), (447, 16401), (473, 16533), (502, 16686), (505, 16701), (512, 16728), (521, 16767), (528, 16797), (536, 16830), (539, 16860), (549, 16935), (551, 16992), (552, 16995), (553, 17001), (556, 17037),

Gene: SoJo_16 Start: 10050, Stop: 12278, Start Num: 3
Candidate Starts for SoJo_16:
(Start: 3 @10050 has 9 MA's), (4, 10056), (5, 10062), (29, 10239), (31, 10260), (52, 10377), (69, 10488), (76, 10548), (100, 10674), (116, 10743), (134, 10839), (147, 10914), (157, 10977), (169, 11043), (185, 11115), (200, 11193), (212, 11253), (262, 11319), (287, 11373), (293, 11382), (319, 11427), (336, 11445), (338, 11451), (387, 11586), (410, 11685), (422, 11742), (437, 11808), (442, 11820), (463, 11928), (472, 11952), (493, 12027), (510, 12108), (528, 12159), (534, 12189),

Gene: Sparcetus_30 Start: 14761, Stop: 17580, Start Num: 1
Candidate Starts for Sparcetus_30:

(Start: 1 @14761 has 44 MA's), (6, 14881), (10, 14941), (18, 14995), (28, 15037), (35, 15112), (45, 15151), (61, 15241), (71, 15325), (73, 15340), (76, 15346), (89, 15418), (98, 15469), (100, 15475), (107, 15514), (139, 15628), (150, 15682), (158, 15745), (165, 15784), (166, 15793), (175, 15838), (185, 15883), (210, 16018), (238, 16123), (243, 16138), (245, 16144), (246, 16147), (249, 16165), (250, 16168), (261, 16186), (303, 16339), (318, 16390), (322, 16408), (327, 16423), (328, 16435), (330, 16438), (356, 16531), (359, 16546), (361, 16555), (366, 16570), (372, 16588), (373, 16591), (376, 16603), (386, 16648), (403, 16732), (404, 16735), (425, 16834), (431, 16864), (446, 16927), (447, 16930), (450, 16942), (487, 17128), (495, 17164), (502, 17215), (512, 17257), (521, 17296), (528, 17326), (536, 17359), (539, 17389), (545, 17428), (552, 17527), (553, 17533), (555, 17557),

Gene: StuartMinion_15 Start: 9820, Stop: 12108, Start Num: 12
Candidate Starts for StuartMinion_15:
(Start: 12 @9820 has 52 MA's), (16, 9853), (18, 9862), (Start: 20 @9871 has 23 MA's), (40, 9973), (51, 10015), (70, 10153), (81, 10207), (107, 10351), (112, 10369), (120, 10393), (127, 10435), (140, 10516), (141, 10519), (142, 10528), (144, 10540), (147, 10549), (168, 10660), (174, 10690), (182, 10729), (211, 10858), (218, 10882), (224, 10903), (246, 10975), (247, 10981), (252, 11005), (266, 11059), (267, 11062), (268, 11071), (282, 11119), (286, 11140), (343, 11305), (427, 11524), (430, 11536), (444, 11599), (466, 11710), (480, 11776), (488, 11788), (492, 11809), (506, 11881), (507, 11884), (531, 11986), (540, 12043), (546, 12097), (547, 12100),

Gene: Sucha_16 Start: 10506, Stop: 12797, Start Num: 33
Candidate Starts for Sucha_16:
(Start: 33 @10506 has 21 MA's), (55, 10623), (60, 10656), (82, 10797), (100, 10875), (141, 11031), (151, 11082), (158, 11133), (163, 11154), (184, 11268), (185, 11271), (187, 11292), (199, 11349), (231, 11478), (233, 11481), (236, 11499), (242, 11517), (248, 11541), (290, 11703), (311, 11784), (318, 11802), (323, 11823), (332, 11856), (333, 11859), (362, 11964), (370, 11988), (388, 12066), (389, 12069), (396, 12099), (403, 12144), (409, 12177), (431, 12276), (439, 12312), (441, 12318), (448, 12345), (455, 12384), (462, 12429), (465, 12441), (467, 12453), (470, 12462), (471, 12465), (496, 12579), (503, 12630), (506, 12645),

Gene: Sweetums_22 Start: 12109, Stop: 14346, Start Num: 20
Candidate Starts for Sweetums_22:
(Start: 20 @12109 has 23 MA's), (21, 12115), (25, 12133), (27, 12139), (55, 12280), (56, 12286), (61, 12319), (71, 12406), (80, 12448), (82, 12463), (85, 12484), (87, 12493), (100, 12556), (119, 12637), (122, 12649), (129, 12697), (132, 12715), (138, 12748), (150, 12808), (157, 12862), (167, 12919), (195, 13057), (196, 13066), (200, 13087), (211, 13144), (244, 13252), (249, 13276), (255, 13297), (272, 13363), (295, 13453), (298, 13462), (299, 13465), (316, 13516), (395, 13660), (411, 13756), (420, 13792), (425, 13813), (435, 13864), (439, 13879), (477, 14044), (479, 14053), (494, 14089), (504, 14146), (509, 14164), (513, 14179), (516, 14188),

Gene: TG1_12 Start: 8190, Stop: 10379, Start Num: 19
Candidate Starts for TG1_12:
(Start: 19 @8190 has 9 MA's), (26, 8217), (53, 8340), (57, 8370), (59, 8385), (61, 8397), (69, 8448), (88, 8574), (100, 8634), (123, 8727), (132, 8790), (133, 8796), (151, 8895), (157, 8937), (171, 9012), (177, 9045), (185, 9075), (202, 9165), (230, 9276), (232, 9279), (237, 9300), (250, 9348), (273, 9444), (291, 9519), (296, 9540), (309, 9579), (313, 9594), (319, 9612), (334, 9627), (338, 9636), (354, 9693), (375, 9741), (419, 9912), (426, 9942), (429, 9954), (457, 10086), (459, 10098), (480, 10182), (502, 10263), (510, 10299), (527, 10362),

Gene: TaylorSipht_16 Start: 10274, Stop: 12499, Start Num: 12
Candidate Starts for TaylorSipht_16:
(Start: 12 @10274 has 52 MA's), (14, 10289), (16, 10310), (42, 10469), (55, 10526), (61, 10565), (71, 10652), (72, 10664), (76, 10676), (78, 10685), (80, 10694), (88, 10742), (93, 10766), (94, 10772), (107,

10841), (113, 10862), (124, 10904), (125, 10907), (132, 10961), (133, 10967), (135, 10973), (139, 11003), (140, 11012), (150, 11054), (157, 11108), (165, 11153), (192, 11291), (200, 11333), (206, 11363), (216, 11405), (224, 11435), (246, 11507), (248, 11516), (252, 11537), (267, 11594), (268, 11603), (282, 11651), (286, 11672), (294, 11705), (347, 11765), (349, 11771), (405, 11831), (408, 11846), (430, 11936), (431, 11945), (439, 11981), (466, 12110), (468, 12122), (492, 12209), (510, 12296), (515, 12311), (524, 12353), (531, 12380), (540, 12437), (546, 12491),

Gene: Tedro_29 Start: 14383, Stop: 17259, Start Num: 1
Candidate Starts for Tedro_29:
(Start: 1 @14383 has 44 MA's), (11, 14566), (18, 14617), (22, 14635), (28, 14659), (35, 14734), (41, 14758), (45, 14773), (66, 14893), (69, 14914), (73, 14962), (86, 15028), (130, 15199), (131, 15208), (138, 15241), (139, 15250), (143, 15283), (166, 15415), (169, 15427), (172, 15439), (184, 15502), (190, 15538), (212, 15652), (248, 15781), (251, 15796), (258, 15829), (261, 15838), (303, 16024), (321, 16090), (327, 16108), (330, 16123), (336, 16141), (337, 16144), (343, 16165), (345, 16168), (356, 16216), (365, 16252), (366, 16255), (376, 16288), (386, 16333), (400, 16399), (402, 16408), (423, 16516), (432, 16552), (434, 16564), (446, 16612), (447, 16615), (473, 16747), (502, 16900), (505, 16915), (512, 16942), (521, 16981), (528, 17011), (536, 17044), (539, 17074), (549, 17149), (552, 17209), (553, 17215), (555, 17239), (556, 17251),

Gene: Teng_21 Start: 12028, Stop: 14262, Start Num: 20
Candidate Starts for Teng_21:
(Start: 20 @12028 has 23 MA's), (21, 12034), (34, 12115), (38, 12127), (43, 12145), (46, 12154), (55, 12196), (56, 12202), (80, 12364), (82, 12379), (85, 12400), (87, 12409), (100, 12472), (119, 12553), (122, 12565), (129, 12613), (132, 12631), (138, 12664), (150, 12724), (157, 12778), (167, 12835), (195, 12973), (200, 13003), (202, 13015), (234, 13129), (244, 13168), (249, 13192), (255, 13213), (272, 13279), (295, 13369), (299, 13381), (316, 13432), (420, 13708), (425, 13729), (435, 13780), (439, 13795), (477, 13960), (479, 13969), (494, 14005), (504, 14062), (509, 14080), (513, 14095), (516, 14104),

Gene: Tiggy93_29 Start: 14916, Stop: 17792, Start Num: 1
Candidate Starts for Tiggy93_29:
(Start: 1 @14916 has 44 MA's), (11, 15099), (18, 15150), (22, 15168), (28, 15192), (35, 15267), (41, 15291), (45, 15306), (66, 15426), (69, 15447), (73, 15495), (86, 15561), (130, 15732), (131, 15741), (138, 15774), (139, 15783), (143, 15816), (166, 15948), (169, 15960), (172, 15972), (184, 16035), (190, 16071), (212, 16185), (248, 16314), (251, 16329), (258, 16362), (261, 16371), (303, 16557), (321, 16623), (327, 16641), (330, 16656), (336, 16674), (337, 16677), (343, 16698), (345, 16701), (356, 16749), (365, 16785), (366, 16788), (376, 16821), (386, 16866), (400, 16932), (402, 16941), (423, 17049), (432, 17085), (434, 17097), (446, 17145), (447, 17148), (473, 17280), (502, 17433), (505, 17448), (512, 17475), (521, 17514), (528, 17544), (536, 17577), (539, 17607), (549, 17682), (552, 17742), (553, 17748), (555, 17772), (556, 17784),

Gene: TinyMiny_30 Start: 14780, Stop: 17599, Start Num: 1
Candidate Starts for TinyMiny_30:
(Start: 1 @14780 has 44 MA's), (6, 14900), (10, 14960), (18, 15014), (22, 15032), (28, 15056), (35, 15131), (45, 15170), (61, 15260), (71, 15344), (73, 15359), (76, 15365), (89, 15437), (98, 15488), (100, 15494), (106, 15530), (107, 15533), (139, 15647), (150, 15701), (158, 15764), (165, 15803), (166, 15812), (175, 15857), (185, 15902), (210, 16037), (238, 16142), (243, 16157), (245, 16163), (246, 16166), (249, 16184), (250, 16187), (261, 16205), (303, 16358), (318, 16409), (322, 16427), (327, 16442), (328, 16454), (330, 16457), (356, 16550), (359, 16565), (361, 16574), (366, 16589), (372, 16607), (373, 16610), (376, 16622), (386, 16667), (403, 16751), (404, 16754), (425, 16853), (431, 16883), (446, 16946), (447, 16949), (450, 16961), (487, 17147), (495, 17183), (502, 17234), (512, 17276), (521, 17315), (528, 17345), (536, 17378), (539, 17408), (545, 17447), (552, 17546), (553, 17552), (555, 17576),

Gene: Toad24_17 Start: 10381, Stop: 12531, Start Num: 12
Candidate Starts for Toad24_17:
(Start: 12 @10381 has 52 MA's), (16, 10417), (Start: 20 @10435 has 23 MA's), (24, 10456), (51, 10576), (59, 10627), (76, 10747), (94, 10843), (107, 10912), (112, 10930), (120, 10954), (127, 10996), (140, 11077), (141, 11080), (142, 11089), (144, 11101), (168, 11221), (174, 11251), (183, 11293), (209, 11407), (211, 11419), (222, 11455), (245, 11533), (247, 11542), (268, 11632), (282, 11680), (286, 11701), (294, 11734), (311, 11794), (406, 11863), (409, 11878), (442, 12019), (492, 12238), (510, 12325), (531, 12409), (540, 12466), (546, 12520),

Gene: Tongui_28 Start: 14247, Stop: 17294, Start Num: 1
Candidate Starts for Tongui_28:
(Start: 1 @14247 has 44 MA's), (11, 14430), (18, 14481), (22, 14499), (28, 14523), (35, 14598), (41, 14622), (45, 14637), (69, 14778), (71, 14811), (73, 14826), (86, 14892), (106, 14997), (114, 15039), (115, 15087), (121, 15123), (130, 15234), (131, 15243), (138, 15276), (166, 15450), (169, 15462), (172, 15474), (194, 15591), (197, 15606), (203, 15642), (212, 15687), (248, 15816), (251, 15831), (258, 15864), (261, 15873), (303, 16059), (311, 16089), (324, 16134), (327, 16143), (330, 16158), (343, 16200), (345, 16203), (349, 16221), (356, 16251), (365, 16287), (366, 16290), (372, 16308), (376, 16323), (386, 16368), (400, 16434), (402, 16443), (407, 16473), (432, 16587), (434, 16599), (446, 16647), (467, 16761), (502, 16935), (505, 16950), (512, 16977), (521, 17016), (528, 17046), (532, 17067), (536, 17079), (539, 17109), (552, 17244), (553, 17250), (555, 17274), (556, 17286),

Gene: Tubberson_16 Start: 10050, Stop: 12278, Start Num: 3
Candidate Starts for Tubberson_16:
(Start: 3 @10050 has 9 MA's), (4, 10056), (5, 10062), (29, 10239), (31, 10260), (52, 10377), (69, 10488), (76, 10548), (100, 10674), (116, 10743), (128, 10806), (134, 10839), (147, 10914), (157, 10977), (169, 11043), (185, 11115), (200, 11193), (212, 11253), (262, 11319), (287, 11373), (293, 11382), (319, 11427), (336, 11445), (338, 11451), (387, 11586), (410, 11685), (422, 11742), (437, 11808), (442, 11820), (463, 11928), (472, 11952), (493, 12027), (510, 12108), (528, 12159), (534, 12189),

Gene: TurboVicky_19 Start: 13340, Stop: 15328, Start Num: 33
Candidate Starts for TurboVicky_19:
(Start: 33 @13340 has 21 MA's), (38, 13379), (60, 13490), (62, 13505), (65, 13517), (100, 13709), (104, 13733), (126, 13775), (151, 13916), (162, 13982), (179, 14078), (200, 14189), (223, 14291), (233, 14315), (249, 14384), (261, 14417), (326, 14582), (376, 14630), (378, 14642), (381, 14660), (410, 14762), (412, 14774), (413, 14780), (475, 15035), (490, 15101), (500, 15161), (536, 15302),

Gene: Typher_21 Start: 13470, Stop: 15458, Start Num: 33
Candidate Starts for Typher_21:
(Start: 33 @13470 has 21 MA's), (38, 13509), (60, 13620), (62, 13635), (65, 13647), (100, 13839), (104, 13863), (126, 13905), (151, 14046), (162, 14112), (179, 14208), (200, 14319), (223, 14421), (233, 14445), (249, 14514), (261, 14547), (326, 14712), (343, 14745), (376, 14760), (378, 14772), (381, 14790), (412, 14904), (413, 14910), (475, 15165), (490, 15231), (500, 15291), (536, 15432),

Gene: Vash_12 Start: 8200, Stop: 10392, Start Num: 19
Candidate Starts for Vash_12:
(Start: 19 @8200 has 9 MA's), (26, 8227), (55, 8368), (61, 8407), (69, 8458), (79, 8533), (83, 8560), (88, 8584), (90, 8590), (99, 8641), (100, 8644), (103, 8659), (123, 8737), (132, 8800), (140, 8851), (147, 8884), (154, 8926), (157, 8947), (169, 9013), (185, 9085), (202, 9175), (215, 9232), (223, 9265), (232, 9289), (237, 9310), (244, 9331), (269, 9439), (279, 9475), (301, 9565), (303, 9571), (308, 9586), (309, 9589), (319, 9622), (338, 9646), (349, 9685), (398, 9820), (409, 9877), (416, 9910), (419, 9922), (457, 10096), (480, 10192), (497, 10246), (501, 10270), (510, 10309), (512, 10315), (523, 10360),

Gene: Violeta_23 Start: 11465, Stop: 13663, Start Num: 20
Candidate Starts for Violeta_23:
(Start: 20 @11465 has 23 MA's), (Start: 33 @11540 has 21 MA's), (45, 11591), (51, 11618), (66, 11711), (71, 11768), (80, 11810), (84, 11843), (87, 11855), (96, 11906), (97, 11909), (100, 11918), (101, 11921), (107, 11957), (109, 11963), (110, 11966), (113, 11978), (116, 11987), (122, 12011), (138, 12110), (150, 12170), (155, 12209), (157, 12224), (167, 12281), (195, 12419), (200, 12449), (202, 12461), (208, 12485), (209, 12494), (214, 12515), (215, 12518), (218, 12530), (223, 12548), (236, 12590), (245, 12620), (281, 12761), (294, 12818), (312, 12884), (346, 12944), (349, 12953), (374, 13016), (407, 13082), (504, 13433), (510, 13457), (519, 13496), (523, 13517),

Gene: Vulpecula_16 Start: 10814, Stop: 13219, Start Num: 12
Candidate Starts for Vulpecula_16:
(Start: 12 @10814 has 52 MA's), (16, 10850), (Start: 20 @10868 has 23 MA's), (29, 10904), (39, 10979), (49, 11024), (64, 11111), (66, 11123), (91, 11282), (92, 11291), (102, 11342), (117, 11399), (118, 11405), (132, 11486), (140, 11540), (148, 11579), (188, 11816), (200, 11870), (212, 11930), (213, 11933), (220, 11960), (229, 11990), (254, 12083), (258, 12101), (264, 12119), (286, 12212), (301, 12272), (304, 12284), (310, 12305), (311, 12308), (317, 12326), (329, 12341), (331, 12344), (335, 12350), (339, 12359), (342, 12371), (344, 12377), (348, 12392), (351, 12401), (355, 12419), (365, 12443), (372, 12455), (377, 12473), (384, 12506), (411, 12584), (412, 12587), (417, 12608), (422, 12626), (426, 12644), (439, 12704), (444, 12722), (492, 12932), (517, 13040), (531, 13097), (540, 13154),

Gene: Warren_22 Start: 11565, Stop: 13763, Start Num: 20
Candidate Starts for Warren_22:
(Start: 20 @11565 has 23 MA's), (Start: 33 @11640 has 21 MA's), (45, 11691), (51, 11718), (66, 11811), (80, 11910), (84, 11943), (87, 11955), (96, 12006), (97, 12009), (100, 12018), (101, 12021), (107, 12057), (109, 12063), (110, 12066), (113, 12078), (116, 12087), (122, 12111), (138, 12210), (150, 12270), (155, 12309), (157, 12324), (167, 12381), (195, 12519), (200, 12549), (202, 12561), (208, 12585), (209, 12594), (214, 12615), (215, 12618), (218, 12630), (223, 12648), (236, 12690), (245, 12720), (251, 12744), (278, 12849), (294, 12918), (303, 12951), (312, 12984), (346, 13044), (349, 13053), (374, 13116), (407, 13182), (424, 13215), (485, 13452), (504, 13533), (510, 13557), (519, 13596), (523, 13617),

Gene: Westrich_17 Start: 10369, Stop: 12519, Start Num: 12
Candidate Starts for Westrich_17:
(Start: 12 @10369 has 52 MA's), (16, 10405), (Start: 20 @10423 has 23 MA's), (24, 10444), (51, 10564), (59, 10615), (76, 10735), (94, 10831), (107, 10900), (112, 10918), (120, 10942), (125, 10963), (127, 10984), (140, 11065), (141, 11068), (142, 11077), (144, 11089), (145, 11092), (168, 11209), (183, 11281), (209, 11395), (211, 11407), (222, 11443), (245, 11521), (247, 11530), (268, 11620), (282, 11668), (286, 11689), (294, 11722), (311, 11782), (406, 11851), (409, 11866), (442, 12007), (468, 12139), (480, 12193), (484, 12199), (486, 12202), (492, 12226), (510, 12313), (531, 12397), (540, 12454), (546, 12508),

Gene: WileyE_15 Start: 10149, Stop: 12554, Start Num: 12
Candidate Starts for WileyE_15:
(Start: 12 @10149 has 52 MA's), (16, 10185), (Start: 20 @10203 has 23 MA's), (29, 10239), (39, 10314), (49, 10359), (64, 10446), (66, 10458), (91, 10617), (92, 10626), (117, 10734), (132, 10821), (140, 10875), (148, 10914), (153, 10953), (188, 11151), (200, 11205), (213, 11268), (214, 11271), (220, 11295), (246, 11382), (254, 11418), (286, 11547), (300, 11604), (301, 11607), (311, 11643), (317, 11661), (329, 11676), (331, 11679), (335, 11685), (339, 11694), (342, 11706), (344, 11712), (348, 11727), (351, 11736), (355, 11754), (365, 11778), (372, 11790), (377, 11808), (384, 11841), (410, 11910), (411, 11919), (412, 11922), (417, 11943), (426, 11979), (439, 12039), (444, 12057),

(492, 12267), (531, 12432),

Gene: Winchester007_23 Start: 11508, Stop: 13706, Start Num: 20
Candidate Starts for Winchester007_23:
(Start: 20 @11508 has 23 MA's), (Start: 33 @11583 has 21 MA's), (45, 11634), (51, 11661), (66, 11754), (80, 11853), (84, 11886), (87, 11898), (96, 11949), (97, 11952), (100, 11961), (101, 11964), (107, 12000), (109, 12006), (110, 12009), (113, 12021), (116, 12030), (122, 12054), (138, 12153), (150, 12213), (155, 12252), (157, 12267), (167, 12324), (195, 12462), (200, 12492), (202, 12504), (208, 12528), (209, 12537), (214, 12558), (215, 12561), (218, 12573), (223, 12591), (245, 12663), (281, 12804), (294, 12861), (312, 12927), (346, 12987), (349, 12996), (374, 13059), (407, 13125), (504, 13476), (510, 13500), (519, 13539), (523, 13560),

Gene: WinnieLou_30 Start: 14542, Stop: 17418, Start Num: 1
Candidate Starts for WinnieLou_30:
(Start: 1 @14542 has 44 MA's), (18, 14776), (22, 14794), (28, 14818), (35, 14893), (45, 14932), (66, 15052), (69, 15073), (73, 15121), (86, 15187), (130, 15358), (131, 15367), (138, 15400), (139, 15409), (143, 15442), (166, 15574), (169, 15586), (172, 15598), (184, 15661), (190, 15697), (201, 15760), (248, 15940), (251, 15955), (258, 15988), (261, 15997), (303, 16183), (311, 16213), (324, 16258), (330, 16282), (336, 16300), (337, 16303), (343, 16324), (345, 16327), (356, 16375), (366, 16414), (376, 16447), (386, 16492), (398, 16543), (402, 16567), (403, 16576), (432, 16711), (434, 16723), (446, 16771), (447, 16774), (457, 16831), (461, 16855), (467, 16885), (502, 17059), (505, 17074), (512, 17101), (521, 17140), (528, 17170), (536, 17203), (539, 17233), (549, 17308), (552, 17368), (553, 17374), (555, 17398), (556, 17410),

Gene: Wrackline_26 Start: 12677, Stop: 15094, Start Num: 20
Candidate Starts for Wrackline_26:
(Start: 20 @12677 has 23 MA's), (25, 12695), (34, 12758), (38, 12770), (56, 12845), (59, 12866), (61, 12878), (70, 12956), (80, 13007), (82, 13022), (85, 13043), (87, 13052), (93, 13079), (96, 13103), (97, 13106), (100, 13115), (116, 13184), (119, 13196), (129, 13256), (132, 13274), (135, 13286), (138, 13307), (142, 13337), (150, 13367), (152, 13382), (157, 13421), (170, 13490), (173, 13508), (191, 13598), (192, 13604), (196, 13625), (200, 13646), (202, 13658), (211, 13703), (213, 13709), (214, 13712), (220, 13736), (223, 13745), (227, 13760), (240, 13799), (245, 13817), (252, 13847), (272, 13922), (274, 13934), (281, 13958), (282, 13961), (283, 13964), (286, 13982), (303, 14048), (321, 14114), (336, 14159), (357, 14237), (359, 14246), (364, 14261), (369, 14279), (386, 14372), (429, 14576), (431, 14588), (444, 14642), (446, 14651), (448, 14657), (456, 14708), (483, 14807), (497, 14852), (504, 14891), (508, 14906), (513, 14924), (516, 14933),

Gene: Zanella_19 Start: 13343, Stop: 15331, Start Num: 33
Candidate Starts for Zanella_19:
(Start: 33 @13343 has 21 MA's), (38, 13382), (60, 13493), (62, 13508), (65, 13520), (100, 13712), (104, 13736), (151, 13919), (162, 13985), (179, 14081), (184, 14105), (200, 14192), (223, 14294), (233, 14318), (249, 14387), (261, 14420), (326, 14585), (376, 14633), (378, 14645), (381, 14663), (410, 14765), (412, 14777), (413, 14783), (475, 15038), (490, 15104), (500, 15164), (536, 15305),

Gene: Zhuangyuan_17 Start: 10550, Stop: 12916, Start Num: 12
Candidate Starts for Zhuangyuan_17:
(Start: 12 @10550 has 52 MA's), (14, 10565), (16, 10586), (18, 10595), (43, 10748), (52, 10781), (61, 10841), (68, 10880), (70, 10919), (72, 10940), (76, 10952), (78, 10961), (80, 10970), (93, 11042), (101, 11081), (107, 11117), (113, 11138), (116, 11147), (119, 11159), (125, 11183), (132, 11237), (133, 11243), (135, 11249), (139, 11279), (140, 11288), (150, 11330), (157, 11384), (165, 11429), (188, 11555), (192, 11567), (200, 11609), (206, 11639), (211, 11666), (246, 11783), (247, 11789), (249, 11801), (264, 11855), (267, 11870), (268, 11879), (272, 11888), (282, 11927), (289, 11960), (290, 11963), (343, 12113), (405, 12239), (411, 12269), (417, 12293), (427, 12332), (444, 12407), (468,

12530), (480, 12584), (488, 12596), (492, 12617), (499, 12650), (504, 12680), (515, 12719), (531, 12794), (544, 12884),

Gene: Zixiang_16 Start: 10182, Stop: 12410, Start Num: 12
Candidate Starts for Zixiang_16:
(Start: 12 @10182 has 52 MA's), (14, 10197), (16, 10218), (29, 10272), (36, 10347), (42, 10377), (43, 10380), (55, 10434), (71, 10560), (76, 10584), (78, 10593), (80, 10602), (93, 10674), (94, 10680), (100, 10710), (101, 10713), (107, 10749), (113, 10770), (119, 10791), (125, 10815), (132, 10869), (133, 10875), (135, 10881), (139, 10911), (140, 10920), (150, 10962), (157, 11016), (165, 11061), (192, 11199), (200, 11241), (206, 11271), (216, 11313), (224, 11343), (246, 11415), (248, 11424), (252, 11445), (268, 11511), (282, 11559), (283, 11562), (290, 11595), (347, 11673), (406, 11742), (434, 11868), (439, 11889), (442, 11898), (484, 12090), (486, 12093), (492, 12117), (531, 12288), (540, 12345), (546, 12399),

Gene: phiBT1_43 Start: 8225, Stop: 10414, Start Num: 19
Candidate Starts for phiBT1_43:
(Start: 19 @8225 has 9 MA's), (26, 8252), (61, 8432), (69, 8483), (70, 8510), (79, 8558), (83, 8585), (88, 8609), (100, 8669), (103, 8684), (123, 8762), (132, 8825), (134, 8834), (140, 8876), (151, 8930), (154, 8951), (157, 8972), (177, 9080), (185, 9110), (202, 9200), (221, 9281), (230, 9311), (237, 9335), (244, 9356), (260, 9425), (264, 9437), (271, 9467), (273, 9479), (280, 9503), (302, 9593), (306, 9608), (309, 9614), (319, 9647), (334, 9662), (338, 9671), (349, 9710), (351, 9716), (353, 9725), (392, 9818), (409, 9902), (417, 9938), (419, 9947), (451, 10088), (457, 10121), (464, 10157), (480, 10217), (497, 10271), (498, 10277), (514, 10343),