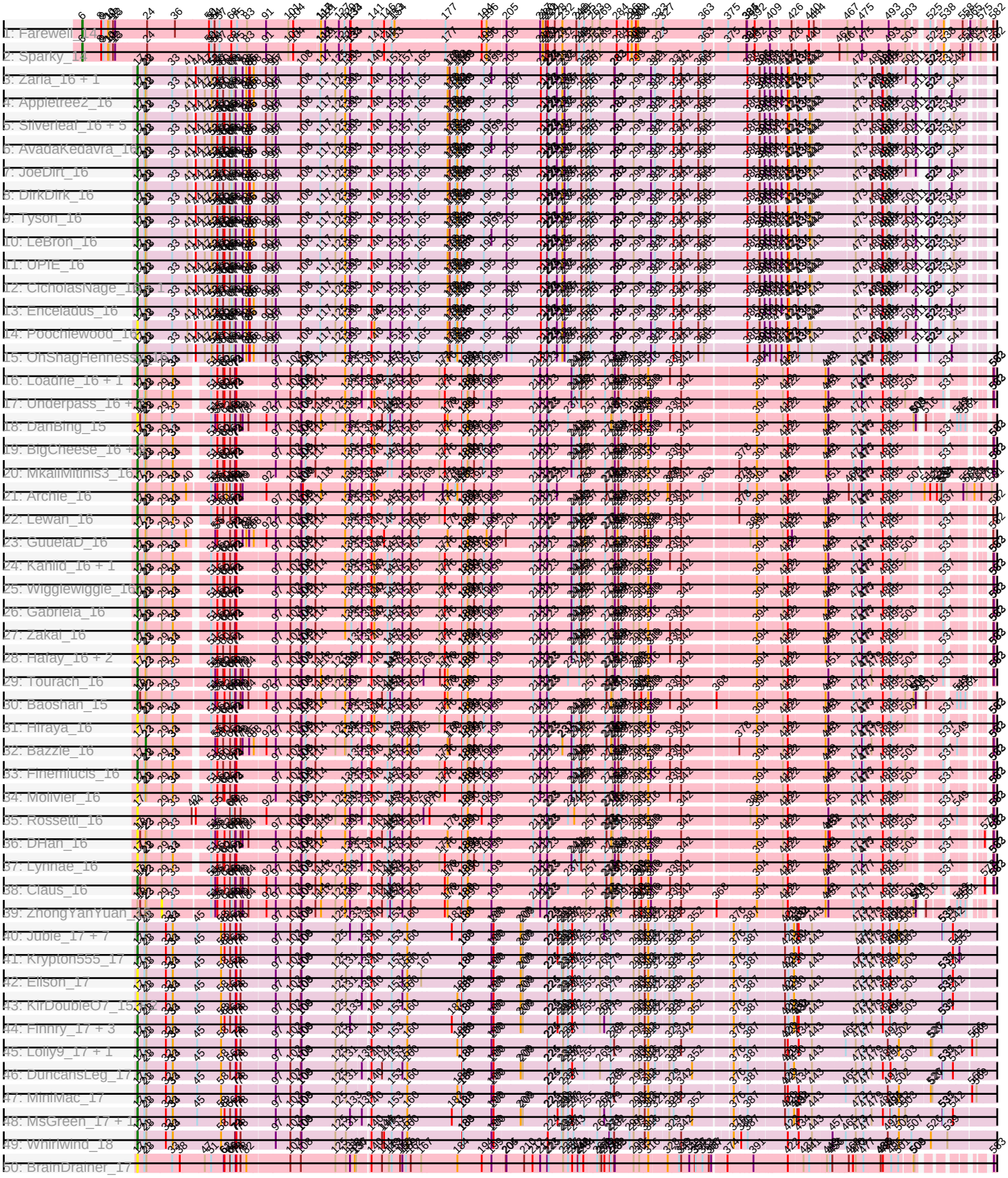
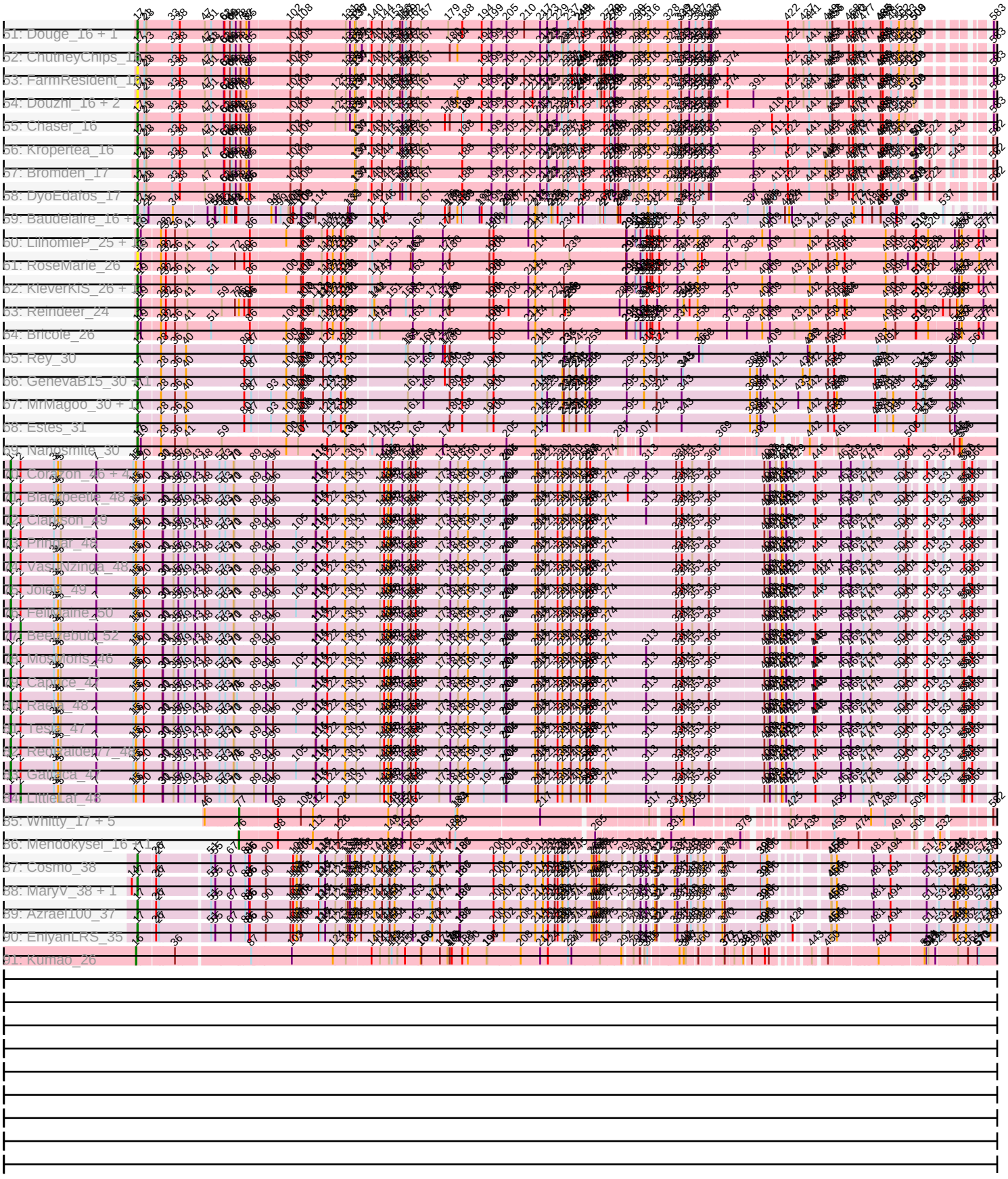
Zoomed Pham 341850



Zoomed Pham 341850



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 341850 Report

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

Pham number 341850 has 163 members, 28 are drafts.

Phages represented in each track:
- Track 1 : Farewell_14
- Track 2 : Sparky_14
- Track 3 : Zaria_16, Calm_16
- Track 4 : Appletree2_16
- Track 5 : Silverleaf_16, Rose5_16, Acquire49_16, Wyatt2_16, Halena_16, MAckerman_16
- Track 6 : AvadaKedavra_16
- Track 7 : JoeDirt_16
- Track 8 : DirkDirk_16
- Track 9 : Tyson_16
- Track 10 : LeBron_16
- Track 11 : UPIE_16
- Track 12 : CicholasNage_16, Wamburgrxpress_16
- Track 13 : Enceladus_16
- Track 14 : Poochiewood_16
- Track 15 : OhShagHennessy_16
- Track 16 : Loadrie_16, OverPar_16
- Track 17 : Underpass_16, LilDestine_16, Nicholasp3_16, Vetrix_16, Crossroads_16, ChengKai98_16, Gardann_16, Rumpelstiltskin_16
- Track 18 : DanBing_15
- Track 19 : BigCheese_16, Faith1_16, Miley16_16, BobsGarage_16, DrSeegs_16, SoJulia_16, Itos_16, Winky_16, Breezona_16, Netyap_16
- Track 20 : MkaliMitinis3_16
- Track 21 : Archie_16
- Track 22 : Lewan_16
- Track 23 : GuuelaD_16
- Track 24 : Kahlid_16, Wilder_16
- Track 25 : Wigglewiggle_16
- Track 26 : Gabriela_16
- Track 27 : Zakai_16
- Track 28 : Hafay_16, Soap141_16, Sarshaun_16
- Track 29 : Tourach_16
- Track 30 : Baoshan_15
- Track 31 : Hiraya_16
- Track 32 : Bazzle_16
- Track 33 : Finemlucis_16
- Track 34 : Molivier_16

• Track 35 : Rossetti_16
• Track 36 : DHan_16
• Track 37 : Lynnae_16
• Track 38 : Claus_16
• Track 39 : ZhongYanYuan_15
• Track 40 : Jubie_17, Kingsolomon_17, TriFive_17, Snenia_17, Jobypre_17, Nicholas_17, Red305_17, Lumos_17
• Track 41 : Krypton555_17
• Track 42 : Ellson_17
• Track 43 : KirDoubleO7_15, BourbonZero_16, LiyuLake_17
• Track 44 : Finnry_17, Moostard_17, Bellis_17, Samty_17
• Track 45 : Lolly9_17, MiniLon_17
• Track 46 : DuncansLeg_17
• Track 47 : MiniMac_17
• Track 48 : MsGreen_17, Clautastrophe_17
• Track 49 : Whirlwind_18
• Track 50 : BrainDrainer_17
• Track 51 : Douge_16, Quby_16
• Track 52 : ChutneyChips_16
• Track 53 : FarmResident_16
• Track 54 : Douzhi_16, Sheng711_16, PYPDinur_16
• Track 55 : Chaser_16
• Track 56 : Kropertea_16
• Track 57 : Bromden_17
• Track 58 : DyoEdafos_17
• Track 59 : Baudelaire_16, Aegeus_16
• Track 60 : LilhomieP_25, Auspice_26, TyDawg_26, IPhane7_26, Dulcita_27, Glaske16_27, Bongo_26, Skinny_27, Izel_27, PegLeg_26, TpudiCK_27, Diminimus_27, FreakyGoo_27
• Track 61 : RoseMarie_26
• Track 62 : KleverKiS_26, SlimJimmy_25
• Track 63 : Reindeer_24
• Track 64 : Bricole_26
• Track 65 : Rey_30
• Track 66 : GenevaB15_30, Aziz_30
• Track 67 : MrMagoo_30, GardenSalsa_30
• Track 68 : Estes_31
• Track 69 : Nanosmite_30
• Track 70 : Corazon_46, GoongGoong_47, Huphlepuff_50, Marvin_46, Lilbit_47
• Track 71 : Blackbeetle_48, Poise_48
• Track 72 : Clarkson_49
• Track 73 : Pringar_48
• Track 74 : VasuNzinga_48
• Track 75 : JoieB_49
• Track 76 : FeliMaine_50
• Track 77 : Beelzebub_52
• Track 78 : MosMoris_46
• Track 79 : Caprice_47
• Track 80 : Raela_48
• Track 81 : Tesla_47
• Track 82 : RedRaider77_48
• Track 83 : Gattaca_47
• Track 84 : LittleLaf_48

• Track 85 : Whitty_17, RonRayGun_17, Bernal13_17, ZenTime222_17, Nairb_17, Ibrahim_17
• Track 86 : Mendokysei_16, Nette_17
• Track 87 : Cosmo_38
• Track 88 : MaryV_38, Wildcat_38
• Track 89 : Azrael100_37
• Track 90 : EniyanLRS_35
• Track 91 : Kumao_26

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

The start number called the most often in the published annotations is 17, it was called in 104 of the 135 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_16, Aegeus_16, Appletree2_16, Archie_16, Auspice_26, AvadaKedavra_16, Aziz_30, Azrael100_37, Baoshan_15, Baudelaire_16, Bellis_17, BigCheese_16, BobsGarage_16, Bongo_26, BourbonZero_16, BrainDrainer_17, Breezona_16, Bricole_26, Bromden_17, Calm_16, Chaser_16, ChengKai98_16, ChutneyChips_16, CicholasNage_16, Claus_16, Clautastrophe_17, Cosmo_38, Crossroads_16, DHan_16, DanBing_15, Diminimus_27, DirkDirk_16, Douge_16, Douzhi_16, DrSeegs_16, Dulcita_27, DuncansLeg_17, DyoEdafos_17, Ellson_17, Enceladus_16, EniyanLRS_35, Estes_31, Faith1_16, FarmResident_16, Finemlucis_16, Finnry_17, FreakyGoo_27, Gabriela_16, Gardann_16, GardenSalsa_30, GenevaB15_30, Glaske16_27, GuuelaD_16, Hafay_16, Halena_16, Hiraya_16, IPhane7_26, Itos_16, Izel_27, Jobypre_17, JoeDirt_16, Jubie_17, Kahlid_16, Kingsolomon_17, KirDoubleO7_15, KleverKiS_26, Kropertea_16, Krypton555_17, LeBron_16, Lewan_16, LilDestine_16, LilhomieP_25, LiyuLake_17, Loadrie_16, Lolly9_17, Lumos_17, Lynnae_16, MAckerman_16, MaryV_38, Miley16_16, MiniLon_17, MiniMac_17, MkaliMitinis3_16, Molivier_16, Moostard_17, MrMagoo_30, MsGreen_17, Nanosmite_30, Netyap_16, Nicholas_17, Nicholasp3_16, OhShagHennessy_16, OverPar_16, PYPDinur_16, PegLeg_26, Poochiewood_16, Quby_16, Red305_17, Reindeer_24, Rey_30, Rose5_16, RoseMarie_26, Rossetti_16, Rumpelstiltskin_16, Samty_17, Sarshaun_16, Sheng711_16, Silverleaf_16, Skinny_27, SlimJimmy_25, Snenia_17, SoJulia_16, Soap141_16, Tourach_16, TpudiCK_27, TriFive_17, TyDawg_26, Tyson_16, UPIE_16, Underpass_16, Vetrix_16, Wamburgrxpress_16, Whirlwind_18, Wigglewiggle_16, Wildcat_38, Wilder_16, Winky_16, Wyatt2_16, Zakai_16, Zaria_16,

Genes that have the "Most Annotated" start but do not call it:
• Bazzle_16, ZhongYanYuan_15,

Genes that do not have the "Most Annotated" start:
• Beelzebub_52, Bernal13_17, Blackbeetle_48, Caprice_47, Clarkson_49, Corazon_46, Farewell_14, FeliMaine_50, Gattaca_47, GoongGoong_47, Huphlepuff_50, Ibrahim_17, JoieB_49, Kumao_26, Lilbit_47, LittleLaf_48, Marvin_46, Mendokysei_16, MosMoris_46, Nairb_17, Nette_17, Poise_48, Pringar_48, Raela_48, RedRaider77_48, RonRayGun_17, Sparky_14, Tesla_47, VasuNzinga_48, Whitty_17, ZenTime222_17,

Summary by start number:

Start 1:
• Found in 20 of 163 (12.3%) of genes in pham
• Manual Annotations of this start: 18 of 135
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Blackbeetle_48 (S), Caprice_47 (S), Clarkson_49 (S), Corazon_46 (S), FeliMaine_50 (S), Gattaca_47 (S), GoongGoong_47 (S), Huphlepuff_50 (S), JoieB_49 (S), Lilbit_47 (S), Marvin_46 (S), MosMoris_46 (S), Poise_48 (S), Pringar_48 (S), Raela_48 (S), RedRaider77_48 (S), Tesla_47 (S), VasuNzinga_48 (S),

Start 2:
• Found in 20 of 163 (12.3%) of genes in pham
• Manual Annotations of this start: 2 of 135
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_52 (S), LittleLaf_48 (S),

Start 6:
• Found in 2 of 163 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 135
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_14 (AF), Sparky_14 (AF),

Start 16:
• Found in 21 of 163 (12.9%) of genes in pham
• Manual Annotations of this start: 1 of 135
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Kumao_26 (singleton),

Start 17:
• Found in 132 of 163 (81.0%) of genes in pham
• Manual Annotations of this start: 104 of 135
• Called 98.5% of time when present
• Phage (with cluster) where this start called: Acquire49_16 (L1), Aegeus_16 (L5), Appletree2_16 (L1), Archie_16 (L2), Auspice_26 (M1), AvadaKedavra_16 (L1), Aziz_30 (M2), Azrael100_37 (V), Baoshan_15 (L2), Baudelaire_16 (L5), Bellis_17 (L3), BigCheese_16 (L2), BobsGarage_16 (L2), Bongo_26 (M1), BourbonZero_16 (L3), BrainDrainer_17 (L4), Breezona_16 (L2), Bricole_26 (M1), Bromden_17 (L4), Calm_16 (L1), Chaser_16 (L4), ChengKai98_16 (L2), ChutneyChips_16 (L4), CicholasNage_16 (L1), Claus_16 (L2), Clautastrophe_17 (L3), Cosmo_38 (V), Crossroads_16 (L2), DHan_16 (L2), DanBing_15 (L2), Diminimus_27 (M1), DirkDirk_16 (L1), Douge_16 (L4), Douzhi_16 (L4), DrSeegs_16 (L2), Dulcita_27 (M1), DuncansLeg_17 (L3), DyoEdafos_17 (L4), Ellson_17 (L3), Enceladus_16 (L1), EniyanLRS_35 (V), Estes_31 (M2), Faith1_16 (L2), FarmResident_16 (L4), Finemlucis_16 (L2), Finnry_17 (L3), FreakyGoo_27 (M1), Gabriela_16 (L2), Gardann_16 (L2), GardenSalsa_30 (M2), GenevaB15_30 (M2), Glaske16_27 (M1), GuuelaD_16 (L2), Hafay_16 (L2), Halena_16 (L1), Hiraya_16 (L2), IPhane7_26 (M1), Itos_16 (L2), Izel_27 (M1), Jobypre_17 (L3), JoeDirt_16 (L1), Jubie_17 (L3), Kahlid_16 (L2), Kingsolomon_17 (L3), KirDoubleO7_15 (L3), KleverKiS_26 (M1), Kropertea_16 (L4), Krypton555_17 (L3), LeBron_16 (L1), Lewan_16 (L2), LilDestine_16 (L2), LilhomieP_25 (M1), LiyuLake_17 (L3), Loadrie_16 (L2), Lolly9_17 (L3), Lumos_17 (L3), Lynnae_16 (L2), MAckerman_16 (L1), MaryV_38 (V),

Miley16_16 (L2), MiniLon_17 (L3), MiniMac_17 (L3), MkaliMitinis3_16 (L2), Molivier_16 (L2), Moostard_17 (L3), MrMagoo_30 (M2), MsGreen_17 (L3), Nanosmite_30 (M3), Netyap_16 (L2), Nicholas_17 (L3), Nicholasp3_16 (L2), OhShagHennessy_16 (L1), OverPar_16 (L2), PYPDinur_16 (L4), PegLeg_26 (M1), Poochiewood_16 (L1), Quby_16 (L4), Red305_17 (L3), Reindeer_24 (M1), Rey_30 (M2), Rose5_16 (L1), RoseMarie_26 (M1), Rossetti_16 (L2), Rumpelstiltskin_16 (L2), Samty_17 (L3), Sarshaun_16 (L2), Sheng711_16 (L4), Silverleaf_16 (L1), Skinny_27 (M1), SlimJimmy_25 (M1), Snenia_17 (L3), SoJulia_16 (L2), Soap141_16 (L2), Tourach_16 (L2), TpudiCK_27 (M1), TriFive_17 (L3), TyDawg_26 (M1), Tyson_16 (L1), UPIE_16 (L1), Underpass_16 (L2), Vetrix_16 (L2), Wamburgrxpress_16 (L1), Whirlwind_18 (L3), Wigglewiggle_16 (L2), Wildcat_38 (V), Wilder_16 (L2), Winky_16 (L2), Wyatt2_16 (L1), Zakai_16 (L2), Zaria_16 (L1),

Start 22:
• Found in 63 of 163 (38.7%) of genes in pham
• Manual Annotations of this start: 1 of 135
• Called 1.6% of time when present
• Phage (with cluster) where this start called: Bazzle_16 (L2),

Start 29:
• Found in 44 of 163 (27.0%) of genes in pham
• No Manual Annotations of this start.
• Called 2.3% of time when present
• Phage (with cluster) where this start called: ZhongYanYuan_15 (L2),

Start 76:
• Found in 3 of 163 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 135
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Mendokysei_16 (T), Nette_17 (T),

Start 77:
• Found in 6 of 163 (3.7%) of genes in pham
• Manual Annotations of this start: 6 of 135
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bernal13_17 (T), Ibrahim_17 (T), Nairb_17 (T), RonRayGun_17 (T), Whitty_17 (T), ZenTime222_17 (T),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, AF, V, L4, S, L5, M1, L3, M3, L1, L2, M2, T,

Info for manual annotations of cluster AF:
•Start number 6 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster L1:
•Start number 17 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 17 was manually annotated 31 times for cluster L2.
•Start number 22 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:
•Start number 17 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 17 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 17 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:
•Start number 17 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 17 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 17 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:
•Start number 1 was manually annotated 18 times for cluster S.
•Start number 2 was manually annotated 2 times for cluster S.

Info for manual annotations of cluster T:
•Start number 76 was manually annotated 1 time for cluster T.
•Start number 77 was manually annotated 6 times for cluster T.

Info for manual annotations of cluster V:
•Start number 17 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Acquire49_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Acquire49_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Aegeus_16 Start: 10445, Stop: 15349, Start Num: 17
Candidate Starts for Aegeus_16:
(Start: 17 @10445 has 104 MA's), (21, 10475), (25, 10493), (34, 10583), (49, 10712), (54, 10739), (55, 10742), (57, 10760), (62, 10781), (64, 10790), (69, 10811), (72, 10826), (73, 10829), (74, 10832), (84, 10874), (94, 10961), (97, 10979), (99, 11000), (101, 11033), (102, 11042), (104, 11054), (108, 11087), (109, 11090), (114, 11150), (132, 11288), (133, 11297), (140, 11360), (146, 11411), (167, 11570), (176, 11669), (179, 11684), (180, 11690), (184, 11723), (188, 11744), (189, 11747), (193, 11819), (194, 11828), (199, 11870), (201, 11915), (203, 11918), (205, 11927), (207, 11948), (211, 12020), (214, 12050), (215, 12059), (225, 12107), (226, 12113), (227, 12116), (230, 12137), (231, 12155), (248, 12227), (253, 12245), (269, 12302), (272, 12320), (273, 12323), (286, 12371), (288, 12374), (290, 12383), (303, 12446), (316, 12494), (321, 12515), (338, 12605), (341, 12614), (354, 12662), (387, 12848), (401, 12911), (405, 12914), (409, 12923), (420, 12977), (424, 12995), (427, 13007), (449, 13130), (472, 13220), (476, 13250), (480, 13283), (485, 13316), (486, 13319), (499, 13385), (500, 13388), (537, 13454), (590, 13532), (607, 13592), (628, 13664), (634, 13676), (638, 13703), (655, 13754), (669, 13790), (678, 13823), (687, 13874), (689, 13880), (695, 13910), (697, 13919), (703, 13958), (714, 13991), (719, 14012), (724, 14030), (733, 14072), (736, 14084), (739, 14102), (744, 14120), (751, 14150), (768, 14225), (780, 14282), (787, 14321), (800, 14372), (814, 14453), (815, 14456), (822, 14489), (825, 14501), (826, 14537), (834, 14561), (838, 14585), (856, 14660), (864, 14756), (869, 14786), (872, 14807), (877, 14828), (889, 14951), (898, 14996), (899, 15002), (916, 15107), (921, 15131), (923, 15140), (924, 15143), (926, 15155), (931, 15194), (932, 15197), (937, 15242), (939, 15245), (945, 15335), (947, 15341),

Gene: Appletree2_16 Start: 10810, Stop: 15729, Start Num: 17
Candidate Starts for Appletree2_16:
(Start: 17 @10810 has 104 MA's), (21, 10840), (Start: 22 @10846 has 1 MA's), (23, 10849), (33, 10957), (41, 11017), (44, 11038), (47, 11074), (52, 11101), (53, 11104), (56, 11125), (57, 11134), (60, 11149), (65, 11176), (69, 11185), (71, 11197), (73, 11203), (79, 11227), (82, 11239), (85, 11251), (86, 11254), (88, 11269), (90, 11311), (95, 11338), (97, 11353), (108, 11461), (117, 11545), (125, 11608), (130, 11650), (133, 11671), (140, 11734), (151, 11812), (157, 11863), (165, 11932), (178, 12055), (180, 12064), (183, 12088), (184, 12097), (188, 12118), (189, 12121), (195, 12211), (205, 12301), (207, 12322), (218, 12448), (223, 12475), (224, 12478), (225, 12481), (229, 12508), (232, 12532), (235, 12541), (237, 12556), (252, 12613), (257, 12634), (261, 12646), (282, 12736), (283, 12739), (299, 12814), (319, 12886), (321, 12895), (332, 12964), (342, 12997), (360, 13066), (365, 13084), (386, 13237), (395, 13285), (396, 13288), (403, 13309), (409, 13330), (414, 13354), (415, 13378), (422, 13405), (424, 13411), (434, 13444), (435, 13447), (443, 13489), (473, 13639), (479, 13690), (480, 13693), (487, 13735), (488, 13738), (491, 13756), (495, 13774), (511, 13870), (523, 13882), (525, 13885), (541, 13930), (592, 14035), (596, 14053), (615, 14110), (616, 14119), (619, 14125), (626, 14161), (630, 14179), (637, 14209), (664, 14320), (675, 14380), (679, 14395), (686, 14437), (688, 14440), (713, 14560), (745, 14686), (746, 14689), (757, 14722), (765, 14758), (770, 14791), (771, 14794), (775, 14809), (778, 14821), (786, 14860), (809, 14947), (826, 15070), (836, 15103), (839, 15118), (844, 15124), (867, 15151), (875, 15193), (907, 15445), (923, 15523), (925, 15529), (931, 15577), (932, 15580), (937, 15622), (939, 15625), (947, 15721),

Gene: Archie_16 Start: 10805, Stop: 16201, Start Num: 17
Candidate Starts for Archie_16:
(Start: 17 @10805 has 104 MA's), (Start: 22 @10841 has 1 MA's), (23, 10844), (29, 10907), (33, 10952), (34, 10955), (40, 11006), (51, 11093), (55, 11111), (56, 11120), (60, 11144), (64, 11159), (66, 11174), (69, 11180), (72, 11195), (73, 11198), (74, 11201), (78, 11213), (79, 11222), (92, 11309), (102, 11411), (108, 11456), (109, 11459), (110, 11465), (118, 11543), (130, 11645), (133, 11666), (139, 11708), (140, 11729), (142, 11738), (157, 11858), (162, 11894), (169, 11948), (175, 12029), (178, 12050), (183, 12083), (184, 12092), (188, 12113), (189, 12116), (192, 12164), (199, 12239), (213, 12410), (217, 12440), (223, 12470), (225, 12476), (229, 12503), (252, 12608), (255, 12620), (273,

12695), (276, 12701), (281, 12725), (283, 12734), (288, 12749), (291, 12761), (299, 12809), (305, 12833), (316, 12869), (328, 12938), (330, 12947), (342, 12995), (363, 13079), (378, 13208), (387, 13238), (394, 13271), (417, 13355), (419, 13358), (422, 13379), (451, 13532), (468, 13610), (471, 13625), (475, 13655), (477, 13661), (488, 13742), (495, 13778), (507, 13865), (514, 13922), (524, 13946), (530, 13970), (533, 13985), (534, 13991), (537, 13997), (559, 14084), (563, 14099), (568, 14132), (576, 14162), (581, 14207), (586, 14243), (595, 14267), (623, 14390), (631, 14444), (638, 14498), (641, 14525), (647, 14537), (656, 14579), (665, 14606), (668, 14636), (670, 14645), (674, 14657), (676, 14666), (682, 14708), (683, 14711), (703, 14825), (720, 14879), (733, 14930), (736, 14942), (739, 14960), (750, 15005), (751, 15008), (770, 15101), (822, 15350), (826, 15398), (834, 15422), (846, 15485), (855, 15509), (883, 15698), (895, 15830), (901, 15860), (923, 15995), (925, 16001), (931, 16049), (937, 16094), (947, 16193),

Gene: Auspice_26 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for Auspice_26:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: AvadaKedavra_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for AvadaKedavra_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (199, 12270), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Aziz_30 Start: 15222, Stop: 22046, Start Num: 17
Candidate Starts for Aziz_30:

(Start: 17 @15222 has 104 MA's), (28, 15312), (36, 15372), (40, 15414), (80, 15654), (87, 15684), (100, 15822), (107, 15873), (108, 15885), (110, 15894), (120, 15981), (123, 16014), (130, 16074), (161, 16305), (169, 16371), (176, 16461), (180, 16482), (188, 16536), (197, 16644), (200, 16671), (214, 16848), (219, 16878), (232, 16965), (234, 16971), (239, 16995), (245, 17022), (246, 17025), (256, 17064), (259, 17082), (295, 17241), (310, 17316), (324, 17370), (343, 17478), (345, 17484), (388, 17766), (394, 17796), (397, 17811), (412, 17871), (436, 17985), (442, 18015), (450, 18093), (458, 18120), (482, 18297), (483, 18309), (491, 18348), (512, 18474), (513, 18504), (515, 18513), (540, 18618), (547, 18639), (584, 18822), (633, 19053), (635, 19056), (640, 19119), (658, 19194), (710, 19494), (760, 19731), (774, 19803), (777, 19815), (789, 19893), (804, 19980), (829, 20175), (843, 20250), (865, 20418), (868, 20430), (882, 20502), (884, 20511), (953, 21099), (958, 21189), (959, 21213), (963, 21282), (965, 21312), (971, 21384), (978, 21513), (983, 21594), (991, 21708), (992, 21720), (993, 21735), (1007, 21843), (1014, 21924), (1024, 22020),

Gene: Azrael100_37 Start: 17721, Stop: 23696, Start Num: 17
Candidate Starts for Azrael100_37:
(Start: 17 @17721 has 104 MA's), (26, 17790), (27, 17802), (51, 18003), (55, 18021), (67, 18087), (81, 18150), (85, 18165), (86, 18168), (90, 18237), (102, 18342), (104, 18354), (106, 18369), (108, 18387), (116, 18465), (117, 18471), (121, 18492), (125, 18534), (131, 18579), (132, 18588), (133, 18597), (136, 18618), (138, 18639), (142, 18684), (144, 18717), (147, 18741), (150, 18750), (154, 18771), (163, 18849), (171, 18921), (172, 18930), (174, 18963), (186, 19044), (187, 19047), (200, 19188), (202, 19233), (208, 19302), (214, 19365), (220, 19398), (224, 19419), (228, 19449), (230, 19461), (231, 19479), (232, 19482), (237, 19506), (245, 19539), (262, 19599), (264, 19605), (266, 19617), (268, 19629), (275, 19659), (293, 19713), (299, 19734), (307, 19764), (313, 19776), (322, 19800), (324, 19806), (334, 19860), (337, 19872), (348, 19914), (351, 19929), (359, 19947), (364, 19965), (370, 20019), (372, 20028), (398, 20145), (399, 20148), (406, 20172), (454, 20337), (455, 20340), (460, 20352), (481, 20493), (494, 20562), (517, 20688), (531, 20730), (544, 20784), (546, 20787), (550, 20802), (562, 20838), (573, 20892), (579, 20922), (580, 20937), (584, 20970), (604, 21042), (608, 21066), (620, 21105), (628, 21141), (644, 21216), (708, 21516), (729, 21609), (735, 21636), (759, 21744), (761, 21765), (766, 21783), (773, 21822), (801, 21951), (805, 21966), (819, 22053), (823, 22062), (831, 22107), (840, 22149), (845, 22173), (849, 22191), (854, 22206), (868, 22317), (870, 22329), (878, 22353), (893, 22446), (894, 22449), (899, 22464), (905, 22500), (906, 22509), (909, 22521), (928, 22605), (929, 22611), (930, 22614), (933, 22641), (940, 22677), (942, 22698), (943, 22701), (944, 22734), (949, 22767), (950, 22791), (951, 22812), (952, 22827), (954, 22842), (955, 22851), (961, 22917), (968, 23040), (970, 23064), (974, 23109), (975, 23130), (977, 23175), (982, 23205), (988, 23316), (999, 23430), (1003, 23481), (1005, 23490), (1009, 23535), (1015, 23577), (1017, 23583), (1019, 23595), (1022, 23649), (1023, 23652),

Gene: Baoshan_15 Start: 10684, Stop: 15810, Start Num: 17
Candidate Starts for Baoshan_15:
(Start: 17 @10684 has 104 MA's), (18, 10696), (Start: 22 @10720 has 1 MA's), (23, 10723), (29, 10786), (33, 10831), (51, 10972), (55, 10990), (56, 10999), (62, 11029), (66, 11053), (69, 11059), (72, 11074), (73, 11077), (78, 11092), (79, 11101), (84, 11122), (92, 11188), (97, 11227), (102, 11290), (108, 11335), (109, 11338), (114, 11398), (118, 11422), (125, 11482), (130, 11524), (133, 11545), (140, 11608), (144, 11650), (147, 11674), (151, 11686), (153, 11692), (157, 11737), (162, 11773), (176, 11917), (178, 11929), (188, 11992), (189, 11995), (190, 12016), (199, 12118), (213, 12289), (217, 12319), (223, 12349), (225, 12355), (257, 12508), (273, 12574), (276, 12580), (280, 12598), (281, 12604), (291, 12640), (299, 12688), (300, 12691), (305, 12712), (308, 12721), (316, 12748), (319, 12760), (330, 12826), (342, 12874), (368, 13003), (394, 13150), (419, 13237), (422, 13258), (448, 13399), (451, 13411), (471, 13504), (477, 13540), (488, 13621), (495, 13657), (503, 13717), (508, 13744), (509, 13747), (511, 13753), (516, 13765), (549, 13846), (555, 13861), (561, 13879), (586, 13939), (611, 14035), (623, 14071), (638, 14161), (647, 14197), (652, 14212), (668, 14251), (674, 14272), (678, 14290), (682, 14323), (683, 14326), (722, 14503), (733, 14545), (736, 14557), (739, 14575), (751, 14623), (754, 14629), (770, 14716), (822, 14965), (834, 15037), (846, 15100),

(848, 15106), (852, 15115), (855, 15124), (883, 15310), (889, 15409), (895, 15442), (897, 15451), (901, 15472), (923, 15604), (925, 15610), (931, 15658), (934, 15688), (937, 15703), (947, 15802),

Gene: Baudelaire_16 Start: 10445, Stop: 15349, Start Num: 17
Candidate Starts for Baudelaire_16:
(Start: 17 @10445 has 104 MA's), (21, 10475), (25, 10493), (34, 10583), (49, 10712), (54, 10739), (55, 10742), (57, 10760), (62, 10781), (64, 10790), (69, 10811), (72, 10826), (73, 10829), (74, 10832), (84, 10874), (94, 10961), (97, 10979), (99, 11000), (101, 11033), (102, 11042), (104, 11054), (108, 11087), (109, 11090), (114, 11150), (132, 11288), (133, 11297), (140, 11360), (146, 11411), (167, 11570), (176, 11669), (179, 11684), (180, 11690), (184, 11723), (188, 11744), (189, 11747), (193, 11819), (194, 11828), (199, 11870), (201, 11915), (203, 11918), (205, 11927), (207, 11948), (211, 12020), (214, 12050), (215, 12059), (225, 12107), (226, 12113), (227, 12116), (230, 12137), (231, 12155), (248, 12227), (253, 12245), (269, 12302), (272, 12320), (273, 12323), (286, 12371), (288, 12374), (290, 12383), (303, 12446), (316, 12494), (321, 12515), (338, 12605), (341, 12614), (354, 12662), (387, 12848), (401, 12911), (405, 12914), (409, 12923), (420, 12977), (424, 12995), (427, 13007), (449, 13130), (472, 13220), (476, 13250), (480, 13283), (485, 13316), (486, 13319), (499, 13385), (500, 13388), (537, 13454), (590, 13532), (607, 13592), (628, 13664), (634, 13676), (638, 13703), (655, 13754), (669, 13790), (678, 13823), (687, 13874), (689, 13880), (695, 13910), (697, 13919), (703, 13958), (714, 13991), (719, 14012), (724, 14030), (733, 14072), (736, 14084), (739, 14102), (744, 14120), (751, 14150), (768, 14225), (780, 14282), (787, 14321), (800, 14372), (814, 14453), (815, 14456), (822, 14489), (825, 14501), (826, 14537), (834, 14561), (838, 14585), (856, 14660), (864, 14756), (869, 14786), (872, 14807), (877, 14828), (889, 14951), (898, 14996), (899, 15002), (916, 15107), (921, 15131), (923, 15140), (924, 15143), (926, 15155), (931, 15194), (932, 15197), (937, 15242), (939, 15245), (945, 15335), (947, 15341),

Gene: Bazzle_16 Start: 10845, Stop: 15950, Start Num: 22
Candidate Starts for Bazzle_16:
(Start: 17 @10809 has 104 MA's), (Start: 22 @10845 has 1 MA's), (23, 10848), (29, 10911), (33, 10956), (34, 10959), (55, 11094), (56, 11103), (60, 11127), (66, 11157), (72, 11178), (73, 11181), (74, 11184), (78, 11196), (79, 11205), (85, 11229), (88, 11247), (92, 11292), (97, 11331), (102, 11394), (108, 11439), (109, 11442), (111, 11460), (114, 11502), (125, 11586), (130, 11628), (131, 11631), (135, 11655), (139, 11691), (140, 11712), (149, 11784), (153, 11796), (157, 11841), (160, 11862), (162, 11877), (165, 11910), (178, 12033), (180, 12042), (188, 12096), (189, 12099), (190, 12120), (191, 12123), (192, 12147), (199, 12222), (213, 12393), (217, 12423), (223, 12453), (225, 12459), (231, 12507), (232, 12510), (241, 12549), (243, 12558), (252, 12591), (257, 12612), (273, 12678), (276, 12684), (280, 12702), (281, 12708), (283, 12717), (288, 12732), (291, 12744), (299, 12792), (305, 12816), (316, 12852), (330, 12930), (342, 12978), (378, 13191), (394, 13254), (419, 13341), (422, 13362), (448, 13503), (451, 13515), (471, 13608), (475, 13638), (477, 13644), (479, 13677), (488, 13725), (495, 13761), (537, 13920), (549, 13950), (582, 14007), (583, 14010), (609, 14115), (623, 14163), (630, 14214), (638, 14253), (656, 14331), (667, 14382), (674, 14409), (678, 14427), (682, 14460), (683, 14463), (720, 14628), (733, 14682), (736, 14694), (739, 14712), (750, 14757), (751, 14760), (770, 14853), (812, 15042), (822, 15102), (841, 15210), (846, 15237), (848, 15243), (852, 15252), (875, 15414), (883, 15447), (889, 15546), (895, 15579), (897, 15588), (901, 15609), (923, 15744), (925, 15750), (931, 15798), (934, 15828), (937, 15843), (947, 15942),

Gene: Beelzebub_52 Start: 21230, Stop: 26710, Start Num: 2
Candidate Starts for Beelzebub_52:
(Start: 1 @21188 has 18 MA's), (Start: 2 @21230 has 2 MA's), (3, 21374), (4, 21392), (5, 21404), (7, 21557), (15, 21716), (Start: 16 @21728 has 1 MA's), (20, 21761), (30, 21842), (31, 21845), (35, 21890), (37, 21911), (39, 21938), (43, 21980), (48, 22022), (57, 22082), (63, 22106), (70, 22142), (71, 22145), (89, 22226), (91, 22274), (96, 22304), (114, 22484), (115, 22487), (122, 22535), (130, 22610), (137, 22658), (143, 22754), (146, 22772), (148, 22790), (152, 22802), (157, 22850), (161, 22874), (162, 22886), (164, 22907), (173, 23006), (181, 23054), (185, 23087), (190, 23129), (195, 23198),

(201, 23267), (204, 23276), (205, 23279), (214, 23399), (216, 23411), (221, 23441), (230, 23486), (232, 23507), (240, 23543), (250, 23570), (257, 23597), (258, 23600), (260, 23609), (274, 23666), (336, 23909), (344, 23930), (353, 23972), (366, 24032), (402, 24227), (407, 24242), (409, 24251), (413, 24275), (416, 24287), (418, 24290), (421, 24305), (429, 24338), (446, 24416), (463, 24503), (469, 24539), (477, 24587), (479, 24614), (501, 24728), (504, 24761), (518, 24806), (537, 24857), (560, 24914), (566, 24935), (591, 25016), (599, 25058), (617, 25136), (618, 25139), (634, 25205), (642, 25256), (673, 25388), (692, 25484), (698, 25523), (719, 25625), (723, 25637), (762, 25790), (764, 25793), (785, 25904), (790, 25922), (805, 25994), (816, 26060), (837, 26156), (844, 26183), (859, 26264), (870, 26342), (885, 26420), (890, 26498), (915, 26648), (917, 26654),

Gene: Bellis_17 Start: 10971, Stop: 16403, Start Num: 17
Candidate Starts for Bellis_17:
(Start: 17 @10971 has 104 MA's), (21, 11001), (23, 11010), (32, 11091), (33, 11118), (34, 11121), (45, 11220), (58, 11316), (62, 11331), (66, 11355), (73, 11379), (74, 11382), (78, 11394), (97, 11529), (102, 11592), (108, 11637), (109, 11640), (125, 11784), (133, 11847), (140, 11910), (153, 11994), (160, 12060), (182, 12249), (188, 12294), (189, 12297), (199, 12420), (200, 12429), (208, 12537), (209, 12546), (224, 12654), (225, 12657), (230, 12687), (231, 12705), (233, 12711), (237, 12732), (242, 12750), (255, 12801), (269, 12861), (271, 12879), (279, 12903), (299, 12996), (305, 13020), (312, 13041), (316, 13056), (321, 13077), (329, 13122), (333, 13137), (352, 13212), (376, 13350), (387, 13395), (420, 13521), (423, 13536), (430, 13560), (432, 13566), (434, 13572), (443, 13620), (473, 13776), (477, 13803), (479, 13830), (488, 13878), (494, 13911), (495, 13914), (503, 13971), (535, 14109), (537, 14112), (585, 14331), (593, 14349), (595, 14358), (610, 14433), (624, 14481), (626, 14508), (629, 14526), (661, 14682), (671, 14739), (677, 14775), (680, 14784), (684, 14820), (699, 14898), (701, 14919), (717, 15003), (721, 15030), (730, 15072), (731, 15078), (733, 15087), (740, 15132), (743, 15141), (752, 15186), (754, 15198), (793, 15423), (813, 15507), (826, 15609), (839, 15657), (841, 15669), (847, 15699), (850, 15705), (853, 15720), (858, 15774), (889, 16002), (895, 16035), (899, 16053), (903, 16071), (904, 16086), (913, 16146), (923, 16191), (931, 16251), (937, 16296), (939, 16299), (947, 16395),

Gene: Bernal13_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for Bernal13_17:
(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: BigCheese_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for BigCheese_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753),

(750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Blackbeetle_48 Start: 20207, Stop: 25756, Start Num: 1
Candidate Starts for Blackbeetle_48:
(Start: 1 @20207 has 18 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (15, 20735), (Start: 16 @20747 has 1 MA's), (20, 20780), (30, 20861), (31, 20864), (35, 20909), (37, 20930), (39, 20957), (43, 20999), (48, 21041), (57, 21101), (63, 21125), (70, 21161), (71, 21164), (89, 21245), (91, 21293), (96, 21323), (114, 21503), (115, 21506), (122, 21554), (130, 21629), (137, 21677), (143, 21773), (146, 21791), (148, 21809), (152, 21821), (157, 21869), (161, 21893), (162, 21905), (164, 21926), (173, 22025), (181, 22073), (185, 22106), (190, 22148), (195, 22217), (201, 22286), (204, 22295), (205, 22298), (214, 22418), (216, 22430), (221, 22460), (230, 22505), (232, 22526), (240, 22562), (250, 22589), (257, 22616), (258, 22619), (260, 22628), (274, 22685), (296, 22757), (313, 22814), (336, 22928), (344, 22949), (353, 22991), (366, 23051), (402, 23246), (407, 23261), (409, 23270), (413, 23294), (416, 23306), (418, 23309), (421, 23324), (429, 23357), (446, 23435), (463, 23522), (469, 23558), (477, 23606), (479, 23633), (501, 23747), (504, 23780), (518, 23825), (537, 23876), (557, 23924), (560, 23933), (566, 23954), (591, 24035), (599, 24077), (617, 24155), (618, 24158), (634, 24224), (642, 24275), (663, 24344), (692, 24500), (698, 24539), (719, 24641), (723, 24653), (762, 24806), (764, 24809), (785, 24920), (790, 24938), (794, 24968), (805, 25010), (811, 25049), (820, 25100), (859, 25310), (870, 25388), (885, 25466), (890, 25544), (915, 25694), (917, 25700),

Gene: BobsGarage_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for BobsGarage_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Bongo_26 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for Bongo_26:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727,

18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: BourbonZero_16 Start: 10979, Stop: 16399, Start Num: 17
Candidate Starts for BourbonZero_16:
(Start: 17 @10979 has 104 MA's), (21, 11009), (23, 11018), (32, 11099), (33, 11126), (34, 11129), (45, 11228), (58, 11324), (66, 11363), (73, 11387), (74, 11390), (78, 11402), (97, 11537), (102, 11600), (108, 11645), (109, 11648), (125, 11792), (131, 11837), (139, 11897), (140, 11918), (153, 12002), (157, 12047), (160, 12068), (184, 12281), (188, 12302), (189, 12305), (199, 12428), (200, 12437), (208, 12545), (209, 12554), (224, 12662), (225, 12665), (231, 12713), (233, 12719), (237, 12740), (242, 12758), (255, 12809), (269, 12869), (279, 12911), (299, 13004), (305, 13028), (312, 13049), (316, 13064), (321, 13085), (329, 13130), (333, 13145), (352, 13220), (376, 13358), (387, 13403), (420, 13529), (423, 13544), (430, 13568), (443, 13628), (473, 13784), (477, 13811), (479, 13838), (488, 13886), (494, 13919), (503, 13979), (535, 14117), (537, 14120), (542, 14162), (585, 14336), (593, 14354), (595, 14363), (610, 14435), (624, 14483), (626, 14510), (629, 14528), (661, 14687), (671, 14744), (677, 14780), (680, 14789), (684, 14825), (699, 14903), (701, 14924), (721, 15035), (730, 15077), (731, 15083), (733, 15092), (740, 15137), (743, 15146), (752, 15191), (754, 15203), (793, 15428), (797, 15440), (813, 15512), (826, 15614), (839, 15662), (841, 15674), (847, 15704), (850, 15710), (853, 15725), (858, 15779), (895, 16031), (899, 16049), (903, 16067), (904, 16082), (913, 16142), (923, 16187), (925, 16193), (931, 16247), (932, 16250), (937, 16292), (939, 16295), (947, 16391),

Gene: BrainDrainer_17 Start: 10651, Stop: 15741, Start Num: 17
Candidate Starts for BrainDrainer_17:
(Start: 17 @10651 has 104 MA's), (21, 10681), (23, 10690), (33, 10798), (38, 10828), (47, 10930), (51, 10954), (61, 11008), (62, 11011), (66, 11035), (69, 11041), (73, 11059), (74, 11062), (78, 11074), (82, 11095), (102, 11272), (108, 11317), (125, 11464), (131, 11509), (133, 11527), (136, 11548), (137, 11554), (140, 11590), (144, 11632), (149, 11662), (153, 11674), (156, 11710), (157, 11719), (159, 11734), (162, 11755), (167, 11800), (184, 11953), (194, 12058), (199, 12100), (204, 12154), (205, 12157), (210, 12232), (212, 12268), (217, 12301), (223, 12331), (225, 12337), (233, 12391), (237, 12412), (242, 12430), (247, 12454), (248, 12457), (249, 12460), (254, 12478), (267, 12529), (269, 12541), (270, 12547), (272, 12559), (278, 12580), (279, 12583), (282, 12598), (283, 12601), (299, 12676), (305, 12700), (316, 12736), (328, 12805), (339, 12850), (342, 12859), (349, 12892), (356, 12916), (357, 12919), (363, 12943), (366, 12970), (367, 12979), (374, 13033), (391, 13129), (422, 13255), (437, 13309), (441, 13333), (449, 13399), (453, 13411), (456, 13420), (468, 13474), (470, 13486), (473, 13498), (477, 13525), (485, 13591), (486, 13594), (488, 13603), (495, 13639), (501, 13669), (508, 13711), (509, 13714), (583, 13873), (586, 13894), (602, 13951), (623, 14026), (630, 14077), (638, 14116), (645, 14140), (665, 14191), (667, 14215), (678, 14260), (703, 14392), (708, 14404), (733, 14506), (736, 14518), (751, 14584), (754, 14590), (755, 14593), (770, 14677), (780, 14716), (781, 14722), (822, 14926), (833, 14995), (836, 15007), (841, 15034), (842, 15037), (853, 15076), (875, 15205), (876, 15214), (879, 15220), (889, 15337), (899, 15388), (903, 15406), (904, 15421), (916, 15496), (919, 15511), (923, 15529), (925, 15535), (931, 15589), (932, 15592), (937, 15634), (947, 15733),

Gene: Breezona_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Breezona_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825),

(153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Bricole_26 Start: 14622, Stop: 21443, Start Num: 17
Candidate Starts for Bricole_26:
(Start: 17 @14622 has 104 MA's), (19, 14637), (28, 14712), (32, 14733), (36, 14772), (41, 14820), (51, 14922), (86, 15078), (100, 15222), (108, 15285), (110, 15294), (119, 15375), (122, 15399), (124, 15423), (128, 15456), (130, 15474), (131, 15477), (141, 15558), (143, 15591), (163, 15732), (175, 15858), (198, 16059), (200, 16077), (211, 16224), (214, 16254), (234, 16377), (294, 16632), (295, 16635), (301, 16668), (303, 16671), (307, 16689), (309, 16698), (314, 16713), (318, 16728), (320, 16737), (326, 16764), (337, 16842), (358, 16923), (373, 17043), (385, 17121), (400, 17184), (409, 17217), (431, 17316), (442, 17382), (450, 17457), (464, 17529), (490, 17706), (498, 17748), (510, 17835), (512, 17838), (520, 17889), (547, 17994), (552, 18012), (556, 18024), (572, 18096), (577, 18117), (598, 18234), (605, 18270), (613, 18315), (633, 18420), (647, 18498), (651, 18513), (706, 18825), (727, 18921), (736, 18969), (742, 19005), (748, 19038), (760, 19083), (762, 19101), (779, 19188), (782, 19209), (784, 19236), (817, 19458), (832, 19557), (835, 19566), (838, 19587), (849, 19641), (851, 19653), (874, 19821), (884, 19866), (917, 20124), (935, 20268), (936, 20277), (972, 20805), (978, 20922), (984, 20991), (986, 21009), (996, 21123), (998, 21153), (1007, 21237), (1011, 21285), (1016, 21330), (1024, 21417),

Gene: Bromden_17 Start: 10976, Stop: 16069, Start Num: 17
Candidate Starts for Bromden_17:
(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (33, 11123), (38, 11153), (47, 11255), (61, 11333), (62, 11336), (66, 11360), (69, 11366), (73, 11384), (78, 11399), (82, 11420), (85, 11432), (102, 11597), (108, 11642), (136, 11873), (137, 11879), (140, 11915), (144, 11957), (156, 12035), (157, 12044), (159, 12059), (162, 12080), (167, 12125), (188, 12299), (199, 12425), (205, 12482), (210, 12557), (217, 12626), (223, 12656), (225, 12662), (229, 12689), (233, 12716), (237, 12737), (249, 12785), (254, 12803), (272, 12884), (278, 12905), (279, 12908), (283, 12926), (288, 12941), (299, 13001), (305, 13025), (316, 13061), (328, 13130), (335, 13157), (339, 13175), (342, 13184), (349, 13217), (356, 13241), (357, 13244), (363, 13268), (367, 13304), (391, 13454), (422, 13580), (441, 13658), (448, 13718), (449, 13724), (456, 13745), (468, 13799), (470, 13811), (473, 13823), (477, 13850), (485, 13916), (486, 13919), (488, 13928), (495, 13964), (501, 13994), (508, 14036), (509, 14039), (511, 14045), (522, 14072), (543, 14126), (582, 14192), (586, 14216), (623, 14348), (630, 14399), (638, 14438), (654, 14486), (665, 14513), (670, 14552), (676, 14573), (678, 14582), (708, 14732), (733, 14834), (736, 14846), (750, 14909), (751, 14912), (770, 15005), (781, 15050), (822, 15254), (836, 15335), (841, 15362), (842, 15365), (855, 15410), (872, 15521), (875, 15533), (876, 15542), (879, 15548), (889, 15665), (899, 15716), (903, 15734), (916, 15824), (919, 15839), (923, 15857), (925, 15863), (931, 15917), (932, 15920), (937, 15962),

Gene: Calm_16 Start: 10837, Stop: 15789, Start Num: 17
Candidate Starts for Calm_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60,

11176), (65, 11203), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14158), (616, 14167), (619, 14173), (626, 14209), (630, 14227), (637, 14257), (664, 14368), (675, 14428), (679, 14443), (686, 14485), (688, 14488), (713, 14608), (745, 14734), (746, 14737), (757, 14770), (765, 14806), (771, 14842), (775, 14857), (778, 14869), (786, 14908), (809, 14995), (826, 15118), (836, 15151), (867, 15211), (875, 15253), (907, 15505), (923, 15583), (925, 15589), (931, 15637), (932, 15640), (937, 15682), (939, 15685), (947, 15781),

Gene: Caprice_47 Start: 20277, Stop: 25826, Start Num: 1
Candidate Starts for Caprice_47:
(Start: 1 @20277 has 18 MA's), (Start: 2 @20319 has 2 MA's), (3, 20463), (4, 20481), (5, 20493), (7, 20646), (15, 20805), (Start: 16 @20817 has 1 MA's), (20, 20850), (30, 20931), (31, 20934), (35, 20979), (37, 21000), (39, 21027), (43, 21069), (48, 21111), (57, 21171), (63, 21195), (70, 21231), (71, 21234), (89, 21315), (91, 21363), (96, 21393), (105, 21489), (114, 21573), (115, 21576), (122, 21624), (130, 21699), (137, 21747), (143, 21843), (146, 21861), (148, 21879), (152, 21891), (157, 21939), (161, 21963), (162, 21975), (164, 21996), (173, 22095), (181, 22143), (185, 22176), (190, 22218), (195, 22287), (201, 22356), (204, 22365), (205, 22368), (214, 22488), (216, 22500), (221, 22530), (230, 22575), (232, 22596), (240, 22632), (250, 22659), (257, 22686), (258, 22689), (260, 22698), (274, 22755), (313, 22884), (336, 22998), (344, 23019), (353, 23061), (366, 23121), (402, 23316), (407, 23331), (409, 23340), (413, 23364), (416, 23376), (418, 23379), (421, 23394), (429, 23427), (445, 23499), (446, 23505), (463, 23592), (469, 23628), (477, 23676), (479, 23703), (501, 23817), (504, 23850), (518, 23895), (537, 23946), (557, 23994), (560, 24003), (566, 24024), (591, 24105), (599, 24147), (617, 24225), (618, 24228), (634, 24294), (642, 24345), (692, 24570), (698, 24609), (719, 24711), (723, 24723), (762, 24876), (764, 24879), (785, 24990), (790, 25008), (805, 25080), (811, 25119), (820, 25170), (859, 25380), (870, 25458), (885, 25536), (890, 25614), (915, 25764), (917, 25770),

Gene: Chaser_16 Start: 10567, Stop: 15669, Start Num: 17
Candidate Starts for Chaser_16:
(Start: 17 @10567 has 104 MA's), (21, 10597), (23, 10606), (33, 10714), (38, 10744), (47, 10846), (51, 10870), (61, 10924), (62, 10927), (66, 10951), (69, 10957), (73, 10975), (74, 10978), (78, 10990), (82, 11011), (85, 11023), (102, 11188), (108, 11233), (125, 11380), (131, 11425), (133, 11443), (136, 11464), (137, 11470), (140, 11506), (144, 11548), (153, 11590), (157, 11635), (159, 11650), (162, 11671), (167, 11716), (176, 11815), (180, 11836), (188, 11890), (189, 11893), (194, 11974), (199, 12016), (205, 12073), (210, 12148), (215, 12205), (217, 12217), (223, 12247), (229, 12280), (231, 12301), (237, 12328), (254, 12394), (272, 12475), (278, 12496), (279, 12499), (283, 12517), (299, 12592), (305, 12616), (316, 12652), (328, 12721), (339, 12766), (342, 12775), (349, 12808), (356, 12832), (357, 12835), (363, 12859), (366, 12886), (367, 12895), (410, 13105), (422, 13171), (441, 13249), (453, 13327), (456, 13336), (470, 13402), (473, 13414), (477, 13441), (485, 13507), (486, 13510), (488, 13519), (495, 13555), (502, 13588), (503, 13615), (583, 13801), (586, 13822), (623, 13954), (630, 14005), (645, 14068), (665, 14119), (667, 14143), (678, 14188), (682, 14221), (703, 14320), (708, 14332), (725, 14398), (733, 14434), (736, 14446), (751, 14512), (754, 14518), (755, 14521), (770, 14605), (780, 14644), (781, 14650), (787, 14683), (822, 14854), (833, 14923), (836, 14935), (841, 14962), (842, 14965), (862, 15070), (875, 15133), (876, 15142), (879, 15148), (889,

15265), (899, 15316), (903, 15334), (904, 15349), (916, 15424), (919, 15439), (923, 15457), (925, 15463), (931, 15517), (932, 15520), (937, 15562), (947, 15661),

Gene: ChengKai98_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for ChengKai98_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: ChutneyChips_16 Start: 10555, Stop: 15663, Start Num: 17
Candidate Starts for ChutneyChips_16:
(Start: 17 @10555 has 104 MA's), (23, 10594), (33, 10702), (38, 10732), (47, 10834), (51, 10858), (53, 10864), (61, 10912), (62, 10915), (66, 10939), (69, 10945), (73, 10963), (78, 10978), (85, 11011), (102, 11176), (108, 11221), (131, 11413), (133, 11431), (136, 11452), (137, 11458), (139, 11473), (140, 11494), (144, 11536), (149, 11566), (153, 11578), (156, 11614), (157, 11623), (159, 11638), (162, 11659), (167, 11704), (180, 11824), (184, 11857), (194, 11962), (199, 12004), (205, 12061), (217, 12205), (223, 12235), (225, 12241), (231, 12289), (233, 12295), (237, 12316), (249, 12364), (254, 12382), (270, 12451), (272, 12463), (278, 12484), (279, 12487), (283, 12505), (299, 12580), (305, 12604), (316, 12640), (328, 12709), (339, 12754), (342, 12763), (349, 12796), (356, 12820), (357, 12823), (363, 12847), (366, 12874), (367, 12883), (422, 13159), (441, 13237), (449, 13303), (453, 13315), (456, 13324), (468, 13378), (470, 13390), (473, 13402), (477, 13429), (485, 13495), (486, 13498), (488, 13507), (495, 13543), (502, 13576), (503, 13603), (508, 13630), (509, 13633), (583, 13789), (623, 13942), (630, 13993), (645, 14056), (654, 14080), (665, 14107), (667, 14131), (678, 14176), (682, 14209), (703, 14314), (708, 14326), (720, 14371), (733, 14428), (736, 14440), (750, 14503), (751, 14506), (754, 14512), (770, 14599), (780, 14638), (781, 14644), (822, 14848), (833, 14917), (836, 14929), (841, 14956), (842, 14959), (876, 15136), (879, 15142), (889, 15259), (899, 15310), (903, 15328), (904, 15343), (916, 15418), (919, 15433), (923, 15451), (925, 15457), (931, 15511), (932, 15514), (937, 15556), (947, 15655),

Gene: CicholasNage_16 Start: 10837, Stop: 15777, Start Num: 17
Candidate Starts for CicholasNage_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841),

(319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14146), (616, 14155), (619, 14161), (626, 14197), (630, 14215), (637, 14245), (664, 14356), (675, 14416), (679, 14431), (686, 14473), (688, 14476), (713, 14596), (745, 14722), (746, 14725), (757, 14758), (765, 14794), (771, 14830), (775, 14845), (778, 14857), (809, 14983), (826, 15106), (836, 15139), (867, 15199), (875, 15241), (907, 15493), (923, 15571), (925, 15577), (931, 15625), (932, 15628), (937, 15670), (939, 15673), (947, 15769),

Gene: Clarkson_49 Start: 20889, Stop: 26438, Start Num: 1
Candidate Starts for Clarkson_49:
(Start: 1 @20889 has 18 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (15, 21417), (Start: 16 @21429 has 1 MA's), (20, 21462), (30, 21543), (31, 21546), (35, 21591), (37, 21612), (39, 21639), (43, 21681), (48, 21723), (57, 21783), (63, 21807), (70, 21843), (71, 21846), (89, 21927), (91, 21975), (96, 22005), (114, 22185), (115, 22188), (122, 22236), (130, 22311), (137, 22359), (143, 22455), (146, 22473), (148, 22491), (152, 22503), (157, 22551), (161, 22575), (162, 22587), (164, 22608), (173, 22707), (181, 22755), (185, 22788), (190, 22830), (195, 22899), (201, 22968), (204, 22977), (205, 22980), (214, 23100), (216, 23112), (221, 23142), (230, 23187), (232, 23208), (240, 23244), (250, 23271), (257, 23298), (258, 23301), (260, 23310), (274, 23367), (313, 23496), (336, 23610), (344, 23631), (353, 23673), (366, 23733), (402, 23928), (407, 23943), (409, 23952), (413, 23976), (416, 23988), (418, 23991), (421, 24006), (429, 24039), (446, 24117), (463, 24204), (469, 24240), (479, 24315), (501, 24429), (504, 24462), (518, 24507), (537, 24558), (557, 24606), (560, 24615), (566, 24636), (591, 24717), (599, 24759), (617, 24837), (618, 24840), (634, 24906), (642, 24957), (663, 25026), (692, 25182), (698, 25221), (719, 25323), (723, 25335), (762, 25488), (764, 25491), (785, 25602), (790, 25620), (794, 25650), (805, 25692), (811, 25731), (820, 25782), (859, 25992), (870, 26070), (885, 26148), (890, 26226), (915, 26376), (917, 26382),

Gene: Claus_16 Start: 10864, Stop: 15966, Start Num: 17
Candidate Starts for Claus_16:
(Start: 17 @10864 has 104 MA's), (18, 10876), (Start: 22 @10900 has 1 MA's), (23, 10903), (29, 10966), (33, 11011), (51, 11152), (55, 11170), (56, 11179), (62, 11209), (66, 11233), (69, 11239), (72, 11254), (73, 11257), (78, 11272), (79, 11281), (84, 11302), (92, 11368), (97, 11407), (102, 11470), (108, 11515), (109, 11518), (114, 11578), (118, 11602), (125, 11662), (130, 11704), (133, 11725), (140, 11788), (144, 11830), (147, 11854), (151, 11866), (153, 11872), (157, 11917), (162, 11953), (176, 12097), (178, 12109), (188, 12172), (189, 12175), (190, 12196), (199, 12298), (213, 12469), (217, 12499), (223, 12529), (225, 12535), (237, 12610), (257, 12688), (273, 12754), (276, 12760), (280, 12778), (281, 12784), (291, 12820), (299, 12868), (300, 12871), (305, 12892), (308, 12901), (316, 12928), (319, 12940), (330, 13006), (342, 13054), (394, 13330), (419, 13417), (422, 13438), (448, 13579), (451, 13591), (471, 13684), (477, 13720), (488, 13801), (495, 13837), (537, 13993), (578, 14074), (582, 14080), (583, 14083), (586, 14098), (623, 14230), (638, 14320), (647, 14356), (652, 14371), (668, 14410), (674, 14431), (678, 14449), (682, 14482), (683, 14485), (722, 14662), (733, 14704), (736, 14716), (739, 14734), (751, 14782), (754, 14788), (770, 14875), (822, 15124), (834, 15196), (846, 15259), (848, 15265), (852, 15274), (855, 15283), (883, 15466), (889, 15565), (895, 15598), (897, 15607), (901, 15628), (923, 15760), (925, 15766), (931, 15814), (934, 15844), (937, 15859), (947, 15958),

Gene: Clautastrophe_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for Clautastrophe_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153,

11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Corazon_46 Start: 20842, Stop: 26391, Start Num: 1
Candidate Starts for Corazon_46:
(Start: 1 @20842 has 18 MA's), (Start: 2 @20884 has 2 MA's), (3, 21028), (4, 21046), (5, 21058), (7, 21211), (15, 21370), (Start: 16 @21382 has 1 MA's), (20, 21415), (30, 21496), (31, 21499), (35, 21544), (37, 21565), (39, 21592), (43, 21634), (48, 21676), (57, 21736), (63, 21760), (70, 21796), (71, 21799), (89, 21880), (91, 21928), (96, 21958), (114, 22138), (115, 22141), (122, 22189), (130, 22264), (137, 22312), (143, 22408), (146, 22426), (148, 22444), (152, 22456), (157, 22504), (161, 22528), (162, 22540), (164, 22561), (173, 22660), (181, 22708), (185, 22741), (190, 22783), (195, 22852), (201, 22921), (204, 22930), (205, 22933), (214, 23053), (216, 23065), (221, 23095), (230, 23140), (232, 23161), (240, 23197), (250, 23224), (257, 23251), (258, 23254), (260, 23263), (274, 23320), (313, 23449), (336, 23563), (344, 23584), (353, 23626), (366, 23686), (402, 23881), (407, 23896), (409, 23905), (413, 23929), (416, 23941), (418, 23944), (421, 23959), (429, 23992), (446, 24070), (463, 24157), (469, 24193), (477, 24241), (479, 24268), (501, 24382), (504, 24415), (518, 24460), (537, 24511), (557, 24559), (560, 24568), (566, 24589), (591, 24670), (599, 24712), (617, 24790), (618, 24793), (634, 24859), (642, 24910), (663, 24979), (692, 25135), (698, 25174), (719, 25276), (723, 25288), (762, 25441), (764, 25444), (785, 25555), (790, 25573), (794, 25603), (805, 25645), (811, 25684), (820, 25735), (859, 25945), (870, 26023), (885, 26101), (890, 26179), (915, 26329), (917, 26335),

Gene: Cosmo_38 Start: 17728, Stop: 23703, Start Num: 17
Candidate Starts for Cosmo_38:
(Start: 17 @17728 has 104 MA's), (26, 17797), (27, 17809), (51, 18010), (55, 18028), (67, 18094), (81, 18157), (85, 18172), (86, 18175), (90, 18244), (104, 18361), (106, 18376), (108, 18394), (116, 18472), (117, 18478), (121, 18499), (125, 18541), (131, 18586), (132, 18595), (133, 18604), (136, 18625), (138, 18646), (142, 18691), (144, 18724), (147, 18748), (150, 18757), (154, 18778), (163, 18856), (171, 18928), (172, 18937), (174, 18970), (186, 19051), (187, 19054), (200, 19195), (202, 19240), (208, 19309), (214, 19372), (220, 19405), (224, 19426), (228, 19456), (230, 19468), (231, 19486), (232, 19489), (237, 19513), (245, 19546), (262, 19606), (264, 19612), (266, 19624), (268, 19636), (275, 19666), (293, 19720), (299, 19741), (307, 19771), (313, 19783), (322, 19807), (324, 19813), (334, 19867), (337, 19879), (348, 19921), (351, 19936), (359, 19954), (364, 19972), (370, 20026), (372, 20035), (398, 20152), (399, 20155), (406, 20179), (454, 20344), (455, 20347), (460, 20359), (481, 20500), (494, 20569), (517, 20695), (531, 20737), (544, 20791), (546, 20794), (550, 20809), (562, 20845), (573, 20899), (579, 20929), (580, 20944), (584, 20977), (604, 21049), (608, 21073), (620, 21112), (628, 21148), (644, 21223), (708, 21523), (729, 21616), (735, 21643), (759, 21751), (761, 21772), (766, 21790), (773, 21829), (801, 21958), (805, 21973), (819, 22060), (823, 22069), (831, 22114), (840, 22156), (845, 22180), (849, 22198), (854, 22213), (868, 22324), (870, 22336), (878, 22360), (893, 22453), (894, 22456), (899, 22471), (905, 22507), (906, 22516), (909, 22528), (928, 22612), (929, 22618), (930, 22621), (933, 22648), (940, 22684), (942, 22705), (943, 22708), (944, 22741), (949, 22774), (950, 22798), (951, 22819), (952, 22834), (954, 22849), (955, 22858),

(961, 22924), (968, 23047), (970, 23071), (974, 23116), (975, 23137), (977, 23182), (982, 23212), (988, 23323), (999, 23437), (1003, 23488), (1005, 23497), (1009, 23542), (1015, 23584), (1017, 23590), (1019, 23602), (1022, 23656), (1023, 23659),

Gene: Crossroads_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Crossroads_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: DHan_16 Start: 10800, Stop: 15902, Start Num: 17
Candidate Starts for DHan_16:
(Start: 17 @10800 has 104 MA's), (18, 10812), (Start: 22 @10836 has 1 MA's), (23, 10839), (29, 10902), (33, 10947), (51, 11088), (55, 11106), (56, 11115), (62, 11145), (66, 11169), (69, 11175), (72, 11190), (73, 11193), (78, 11208), (79, 11217), (84, 11238), (97, 11343), (102, 11406), (108, 11451), (109, 11454), (114, 11514), (118, 11538), (130, 11640), (133, 11661), (140, 11724), (144, 11766), (147, 11790), (151, 11802), (153, 11808), (157, 11853), (162, 11889), (178, 12045), (188, 12108), (189, 12111), (190, 12132), (199, 12234), (213, 12405), (217, 12435), (223, 12465), (225, 12471), (257, 12624), (273, 12690), (276, 12696), (280, 12714), (281, 12720), (291, 12756), (299, 12804), (305, 12828), (316, 12864), (319, 12876), (342, 12990), (394, 13266), (419, 13353), (422, 13374), (448, 13515), (451, 13527), (452, 13533), (471, 13620), (477, 13656), (488, 13737), (495, 13773), (503, 13833), (537, 13929), (578, 14010), (582, 14016), (583, 14019), (586, 14034), (623, 14166), (638, 14256), (647, 14292), (652, 14307), (667, 14340), (668, 14346), (674, 14367), (678, 14385), (682, 14418), (720, 14589), (722, 14598), (733, 14640), (736, 14652), (739, 14670), (751, 14718), (754, 14724), (770, 14811), (822, 15060), (834, 15132), (846, 15195), (848, 15201), (852, 15210), (855, 15219), (883, 15402), (889, 15501), (895, 15534), (897, 15543), (901, 15564), (923, 15696), (925, 15702), (931, 15750), (934, 15780), (937, 15795), (947, 15894),

Gene: DanBing_15 Start: 10683, Stop: 15806, Start Num: 17
Candidate Starts for DanBing_15:
(Start: 17 @10683 has 104 MA's), (18, 10695), (21, 10713), (Start: 22 @10719 has 1 MA's), (23, 10722), (29, 10785), (33, 10830), (51, 10971), (55, 10989), (56, 10998), (62, 11028), (66, 11052), (69, 11058), (72, 11073), (73, 11076), (78, 11091), (79, 11100), (84, 11121), (92, 11187), (97, 11226), (102, 11289), (108, 11334), (109, 11337), (114, 11397), (118, 11421), (125, 11481), (130, 11523), (133, 11544), (140, 11607), (144, 11649), (147, 11673), (151, 11685), (153, 11691), (157, 11736), (162, 11772), (176, 11916), (178, 11928), (188, 11991), (189, 11994), (190, 12015), (199, 12117), (213, 12288), (217, 12318), (223, 12348), (225, 12354), (237, 12429), (257, 12507), (273, 12573), (280, 12597), (281, 12603), (291, 12639), (299, 12687), (300, 12690), (305, 12711), (308, 12720), (316, 12747), (319, 12759), (330, 12825), (342, 12873), (394, 13149), (419, 13236), (422, 13257), (448,

13398), (451, 13410), (471, 13503), (477, 13539), (488, 13620), (495, 13656), (508, 13743), (509, 13746), (511, 13752), (516, 13764), (549, 13845), (555, 13860), (561, 13878), (586, 13938), (611, 14034), (623, 14070), (647, 14196), (652, 14211), (668, 14250), (674, 14271), (678, 14289), (682, 14322), (683, 14325), (722, 14502), (733, 14544), (736, 14556), (739, 14574), (751, 14622), (754, 14628), (770, 14715), (822, 14964), (834, 15036), (846, 15099), (848, 15105), (852, 15114), (855, 15123), (883, 15306), (889, 15405), (895, 15438), (897, 15447), (901, 15468), (923, 15600), (925, 15606), (931, 15654), (934, 15684), (937, 15699), (947, 15798),

Gene: Diminimus_27 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for Diminimus_27:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: DirkDirk_16 Start: 10838, Stop: 15769, Start Num: 17
Candidate Starts for DirkDirk_16:
(Start: 17 @10838 has 104 MA's), (21, 10868), (Start: 22 @10874 has 1 MA's), (23, 10877), (33, 10985), (41, 11045), (44, 11066), (47, 11102), (52, 11129), (53, 11132), (56, 11153), (57, 11162), (60, 11177), (65, 11204), (69, 11213), (71, 11225), (73, 11231), (79, 11255), (82, 11267), (85, 11279), (86, 11282), (88, 11297), (90, 11339), (95, 11366), (97, 11381), (108, 11489), (117, 11573), (125, 11636), (130, 11678), (133, 11699), (140, 11762), (151, 11840), (157, 11891), (165, 11960), (178, 12083), (180, 12092), (183, 12116), (184, 12125), (188, 12146), (189, 12149), (195, 12239), (205, 12329), (207, 12350), (218, 12476), (223, 12503), (224, 12506), (225, 12509), (229, 12536), (232, 12560), (235, 12569), (237, 12584), (252, 12641), (257, 12662), (261, 12674), (282, 12764), (283, 12767), (299, 12842), (319, 12914), (321, 12923), (332, 12992), (342, 13025), (360, 13094), (365, 13112), (386, 13265), (395, 13313), (396, 13316), (403, 13337), (409, 13358), (414, 13382), (415, 13406), (422, 13433), (424, 13439), (434, 13472), (435, 13475), (443, 13517), (473, 13667), (479, 13718), (480, 13721), (487, 13763), (488, 13766), (491, 13784), (495, 13802), (523, 13910), (525, 13913), (541, 13958), (592, 14063), (596, 14081), (615, 14150), (616, 14159), (619, 14165), (626, 14201), (630, 14219), (637, 14249), (638, 14258), (664, 14360), (675, 14420), (679, 14435), (686, 14477), (688, 14480), (713, 14600), (745, 14726), (746, 14729), (757, 14762), (765, 14798), (770, 14831), (771, 14834), (775, 14849), (778, 14861), (786, 14900), (809, 14987), (826, 15110), (836, 15143), (839, 15158), (844, 15164), (867, 15191), (875, 15233), (907, 15485), (923, 15563), (925, 15569), (931, 15617), (932, 15620), (937, 15662), (939, 15665), (947, 15761),

Gene: Douge_16 Start: 10512, Stop: 15611, Start Num: 17
Candidate Starts for Douge_16:
(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (78, 10935), (82, 10956), (85, 10968), (102, 11133), (108, 11178), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (179, 11775), (188, 11835), (194, 11919), (199, 11961), (205, 12018), (210, 12093), (217,

12162), (223, 12192), (229, 12225), (237, 12273), (248, 12318), (249, 12321), (254, 12339), (272, 12420), (278, 12441), (279, 12444), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (502, 13533), (503, 13560), (508, 13587), (509, 13590), (583, 13743), (586, 13764), (623, 13896), (630, 13947), (645, 14010), (665, 14061), (667, 14085), (678, 14130), (682, 14163), (703, 14262), (708, 14274), (733, 14376), (736, 14388), (751, 14454), (754, 14460), (755, 14463), (770, 14547), (780, 14586), (781, 14592), (787, 14625), (822, 14796), (833, 14865), (836, 14877), (841, 14904), (842, 14907), (875, 15075), (876, 15084), (879, 15090), (889, 15207), (899, 15258), (903, 15276), (904, 15291), (916, 15366), (919, 15381), (923, 15399), (925, 15405), (931, 15459), (932, 15462), (937, 15504), (947, 15603),

Gene: Douzhi_16 Start: 10512, Stop: 15602, Start Num: 17
Candidate Starts for Douzhi_16:
(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: DrSeegs_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for DrSeegs_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Dulcita_27 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for Dulcita_27:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: DuncansLeg_17 Start: 10981, Stop: 16401, Start Num: 17
Candidate Starts for DuncansLeg_17:
(Start: 17 @10981 has 104 MA's), (21, 11011), (23, 11020), (32, 11101), (33, 11128), (34, 11131), (45, 11230), (58, 11326), (66, 11365), (73, 11389), (74, 11392), (78, 11404), (97, 11539), (102, 11602), (108, 11647), (109, 11650), (125, 11794), (131, 11839), (139, 11899), (140, 11920), (144, 11962), (153, 12004), (157, 12049), (160, 12070), (188, 12304), (189, 12307), (199, 12430), (200, 12439), (208, 12547), (209, 12556), (224, 12664), (225, 12667), (231, 12715), (233, 12721), (237, 12742), (242, 12760), (255, 12811), (269, 12871), (279, 12913), (299, 13006), (305, 13030), (312, 13051), (316, 13066), (321, 13087), (329, 13132), (333, 13147), (352, 13222), (376, 13360), (387, 13405), (420, 13531), (423, 13546), (430, 13570), (443, 13630), (473, 13786), (477, 13813), (479, 13840), (488, 13888), (494, 13921), (503, 13981), (535, 14119), (537, 14122), (542, 14164), (585, 14338), (593, 14356), (595, 14365), (610, 14437), (624, 14485), (626, 14512), (629, 14530), (661, 14689), (671, 14746), (677, 14782), (680, 14791), (684, 14827), (699, 14905), (701, 14926), (721, 15037), (730, 15079), (731, 15085), (733, 15094), (740, 15139), (743, 15148), (752, 15193), (754, 15205), (793, 15430), (797, 15442), (813, 15514), (826, 15616), (841, 15676), (847, 15706), (850, 15712), (853, 15727), (858, 15781), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (925, 16195), (931, 16249), (932, 16252), (937, 16294), (939, 16297), (947, 16393),

Gene: DyoEdafos_17 Start: 10725, Stop: 15818, Start Num: 17
Candidate Starts for DyoEdafos_17:
(Start: 17 @10725 has 104 MA's), (21, 10755), (23, 10764), (33, 10872), (38, 10902), (47, 11004), (61, 11082), (62, 11085), (66, 11109), (69, 11115), (73, 11133), (78, 11148), (82, 11169), (85, 11181), (86, 11184), (102, 11346), (108, 11391), (136, 11622), (137, 11628), (140, 11664), (144, 11706), (153, 11748), (156, 11784), (157, 11793), (159, 11808), (162, 11829), (167, 11874), (188, 12048), (199, 12174), (205, 12231), (210, 12306), (217, 12375), (223, 12405), (225, 12411), (233, 12465), (237, 12486), (249, 12534), (254, 12552), (272, 12633), (278, 12654), (279, 12657), (283, 12675), (288, 12690), (297, 12732), (299, 12750), (305, 12774), (316, 12810), (328, 12879), (335, 12906), (339, 12924), (342, 12933), (349, 12966), (356, 12990), (357, 12993), (363, 13017), (366, 13044), (367, 13053), (391, 13203), (411, 13272), (422, 13329), (441, 13407), (449, 13473), (456, 13494), (468, 13548), (470, 13560), (473, 13572), (477, 13599), (485, 13665), (486, 13668), (488, 13677), (495, 13713), (501, 13743), (508, 13785), (509, 13788), (511, 13794), (522, 13821), (582, 13941), (586, 13965), (623, 14097), (630, 14148), (665, 14262), (667, 14286), (670, 14301), (676, 14322), (678, 14331), (682, 14364), (703, 14463), (708, 14475), (733, 14577), (736, 14589), (750, 14652), (751, 14655), (770, 14748), (780, 14787), (781, 14793), (822, 14997), (836, 15078), (841, 15105), (842, 15108), (855, 15153), (876, 15285), (879, 15291), (889, 15408), (899, 15459), (903, 15477), (904,

15492), (916, 15573), (919, 15588), (923, 15606), (925, 15612), (931, 15666), (932, 15669), (937, 15711),

Gene: Ellson_17 Start: 10989, Stop: 16409, Start Num: 17
Candidate Starts for Ellson_17:
(Start: 17 @10989 has 104 MA's), (21, 11019), (23, 11028), (32, 11109), (33, 11136), (34, 11139), (45, 11238), (58, 11334), (66, 11373), (73, 11397), (74, 11400), (78, 11412), (97, 11547), (102, 11610), (108, 11655), (109, 11658), (125, 11802), (131, 11847), (139, 11907), (140, 11928), (153, 12012), (157, 12057), (160, 12078), (167, 12138), (188, 12312), (189, 12315), (199, 12438), (200, 12447), (208, 12555), (209, 12564), (224, 12672), (225, 12675), (231, 12723), (233, 12729), (237, 12750), (242, 12768), (255, 12819), (269, 12879), (279, 12921), (299, 13014), (305, 13038), (312, 13059), (316, 13074), (321, 13095), (329, 13140), (333, 13155), (352, 13230), (376, 13368), (387, 13413), (420, 13539), (423, 13554), (430, 13578), (443, 13638), (473, 13794), (477, 13821), (479, 13848), (488, 13896), (494, 13929), (503, 13989), (535, 14127), (537, 14130), (542, 14172), (585, 14346), (593, 14364), (595, 14373), (610, 14445), (624, 14493), (626, 14520), (629, 14538), (661, 14697), (671, 14754), (677, 14790), (680, 14799), (684, 14835), (699, 14913), (701, 14934), (721, 15045), (730, 15087), (731, 15093), (733, 15102), (740, 15147), (743, 15156), (752, 15201), (754, 15213), (793, 15438), (797, 15450), (813, 15522), (826, 15624), (839, 15672), (841, 15684), (847, 15714), (850, 15720), (853, 15735), (858, 15789), (895, 16041), (899, 16059), (903, 16077), (904, 16092), (913, 16152), (923, 16197), (925, 16203), (931, 16257), (932, 16260), (937, 16302), (939, 16305), (947, 16401),

Gene: Enceladus_16 Start: 10839, Stop: 15770, Start Num: 17
Candidate Starts for Enceladus_16:
(Start: 17 @10839 has 104 MA's), (21, 10869), (Start: 22 @10875 has 1 MA's), (23, 10878), (33, 10986), (41, 11046), (44, 11067), (47, 11103), (52, 11130), (53, 11133), (56, 11154), (57, 11163), (60, 11178), (65, 11205), (69, 11214), (71, 11226), (73, 11232), (79, 11256), (82, 11268), (85, 11280), (86, 11283), (88, 11298), (90, 11340), (95, 11367), (97, 11382), (108, 11490), (117, 11574), (125, 11637), (130, 11679), (133, 11700), (140, 11763), (151, 11841), (157, 11892), (165, 11961), (178, 12084), (180, 12093), (183, 12117), (184, 12126), (188, 12147), (189, 12150), (195, 12240), (205, 12330), (207, 12351), (218, 12477), (223, 12504), (224, 12507), (225, 12510), (229, 12537), (232, 12561), (235, 12570), (237, 12585), (252, 12642), (257, 12663), (261, 12675), (282, 12765), (283, 12768), (299, 12843), (319, 12915), (321, 12924), (332, 12993), (342, 13026), (360, 13095), (365, 13113), (386, 13266), (395, 13314), (396, 13317), (403, 13338), (409, 13359), (414, 13383), (415, 13407), (422, 13434), (424, 13440), (434, 13473), (435, 13476), (443, 13518), (473, 13668), (479, 13719), (480, 13722), (487, 13764), (488, 13767), (491, 13785), (495, 13803), (511, 13899), (523, 13911), (525, 13914), (541, 13959), (592, 14064), (596, 14082), (615, 14151), (616, 14160), (619, 14166), (626, 14202), (630, 14220), (637, 14250), (638, 14259), (664, 14361), (675, 14421), (679, 14436), (686, 14478), (688, 14481), (713, 14601), (745, 14727), (746, 14730), (757, 14763), (765, 14799), (770, 14832), (771, 14835), (775, 14850), (778, 14862), (786, 14901), (809, 14988), (826, 15111), (836, 15144), (839, 15159), (844, 15165), (867, 15192), (875, 15234), (907, 15486), (923, 15564), (925, 15570), (931, 15618), (932, 15621), (937, 15663), (939, 15666), (947, 15762),

Gene: EniyanLRS_35 Start: 17426, Stop: 23401, Start Num: 17
Candidate Starts for EniyanLRS_35:
(Start: 17 @17426 has 104 MA's), (26, 17495), (27, 17507), (51, 17708), (55, 17726), (67, 17792), (81, 17855), (85, 17870), (86, 17873), (90, 17942), (102, 18047), (104, 18059), (106, 18074), (108, 18092), (116, 18170), (117, 18176), (121, 18197), (125, 18239), (131, 18284), (132, 18293), (133, 18302), (136, 18323), (138, 18344), (142, 18389), (144, 18422), (147, 18446), (150, 18455), (154, 18476), (163, 18554), (171, 18626), (172, 18635), (174, 18668), (186, 18749), (187, 18752), (200, 18893), (202, 18938), (208, 19007), (214, 19070), (220, 19103), (224, 19124), (228, 19154), (230, 19166), (231, 19184), (232, 19187), (237, 19211), (245, 19244), (262, 19304), (264, 19310), (266, 19322), (268, 19334), (275, 19364), (293, 19418), (299, 19439), (307, 19469), (313, 19481), (322, 19505),

(324, 19511), (334, 19565), (337, 19577), (348, 19619), (351, 19634), (359, 19652), (364, 19670), (370, 19724), (372, 19733), (398, 19850), (399, 19853), (406, 19877), (428, 19943), (454, 20042), (455, 20045), (460, 20057), (481, 20198), (494, 20267), (517, 20393), (531, 20435), (544, 20489), (546, 20492), (550, 20507), (562, 20543), (573, 20597), (579, 20627), (580, 20642), (584, 20675), (604, 20747), (608, 20771), (620, 20810), (628, 20846), (644, 20921), (708, 21221), (729, 21314), (735, 21341), (759, 21449), (761, 21470), (766, 21488), (773, 21527), (801, 21656), (805, 21671), (819, 21758), (823, 21767), (831, 21812), (840, 21854), (845, 21878), (849, 21896), (854, 21911), (868, 22022), (870, 22034), (878, 22058), (893, 22151), (894, 22154), (899, 22169), (905, 22205), (906, 22214), (909, 22226), (928, 22310), (929, 22316), (930, 22319), (933, 22346), (940, 22382), (942, 22403), (943, 22406), (944, 22439), (949, 22472), (950, 22496), (951, 22517), (952, 22532), (954, 22547), (955, 22556), (961, 22622), (968, 22745), (970, 22769), (974, 22814), (975, 22835), (977, 22880), (982, 22910), (988, 23021), (999, 23135), (1003, 23186), (1005, 23195), (1009, 23240), (1015, 23282), (1017, 23288), (1019, 23300), (1022, 23354), (1023, 23357),

Gene: Estes_31 Start: 15359, Stop: 22177, Start Num: 17
Candidate Starts for Estes_31:
(Start: 17 @15359 has 104 MA's), (28, 15449), (36, 15509), (40, 15551), (80, 15791), (87, 15821), (93, 15893), (100, 15959), (107, 16010), (108, 16022), (110, 16031), (120, 16118), (123, 16151), (128, 16193), (130, 16211), (161, 16442), (180, 16619), (188, 16673), (197, 16781), (200, 16808), (214, 16985), (219, 17015), (223, 17036), (232, 17102), (234, 17108), (239, 17132), (245, 17159), (246, 17162), (256, 17201), (259, 17219), (295, 17378), (324, 17507), (343, 17615), (388, 17903), (394, 17933), (397, 17948), (412, 18008), (442, 18152), (450, 18230), (458, 18257), (482, 18434), (483, 18446), (491, 18485), (496, 18512), (512, 18611), (513, 18641), (515, 18650), (540, 18755), (547, 18776), (584, 18959), (633, 19190), (635, 19193), (640, 19256), (658, 19331), (660, 19346), (710, 19631), (720, 19676), (734, 19739), (760, 19862), (774, 19934), (777, 19946), (789, 20024), (804, 20111), (829, 20306), (843, 20381), (865, 20549), (868, 20561), (882, 20633), (884, 20642), (953, 21230), (958, 21320), (963, 21413), (965, 21443), (971, 21515), (978, 21644), (983, 21725), (991, 21839), (992, 21851), (1007, 21974), (1010, 22016), (1014, 22055), (1024, 22151),

Gene: Faith1_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Faith1_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Farewell_14 Start: 9733, Stop: 15126, Start Num: 6
Candidate Starts for Farewell_14:
(Start: 6 @9733 has 2 MA's), (8, 9814), (9, 9823), (10, 9844), (11, 9850), (12, 9865), (13, 9874), (24, 10006), (36, 10126), (50, 10270), (51, 10279), (54, 10294), (57, 10315), (68, 10366), (75, 10390), (83, 10429), (91, 10507), (101, 10600), (104, 10621), (117, 10729), (118, 10732), (121, 10750), (127,

10807), (129, 10831), (133, 10855), (134, 10858), (141, 10951), (146, 11002), (153, 11035), (154, 11047), (177, 11263), (194, 11419), (196, 11440), (205, 11512), (217, 11656), (220, 11668), (222, 11680), (224, 11689), (228, 11710), (232, 11743), (246, 11803), (249, 11815), (255, 11836), (263, 11866), (269, 11890), (284, 11962), (296, 12004), (298, 12016), (302, 12034), (304, 12043), (323, 12109), (327, 12136), (363, 12301), (375, 12388), (384, 12445), (385, 12448), (392, 12481), (409, 12547), (426, 12619), (440, 12679), (444, 12700), (467, 12823), (475, 12880), (493, 12991), (503, 13060), (525, 13120), (538, 13159), (558, 13213), (565, 13231), (575, 13264), (582, 13288), (586, 13306), (599, 13357), (601, 13366), (612, 13420), (639, 13552), (643, 13582), (666, 13672), (681, 13750), (683, 13771), (691, 13810), (693, 13819), (700, 13867), (741, 14050), (747, 14083), (755, 14107), (772, 14200), (792, 14296), (796, 14323), (805, 14362), (813, 14407), (818, 14455), (827, 14515), (842, 14581), (873, 14770), (886, 14839), (888, 14896), (892, 14920), (896, 14947), (902, 14971), (910, 15031), (912, 15058), (914, 15061),

Gene: FarmResident_16 Start: 10556, Stop: 15655, Start Num: 17
Candidate Starts for FarmResident_16:
(Start: 17 @10556 has 104 MA's), (21, 10586), (23, 10595), (33, 10703), (38, 10733), (47, 10835), (51, 10859), (61, 10913), (62, 10916), (66, 10940), (69, 10946), (73, 10964), (78, 10979), (82, 11000), (85, 11012), (102, 11177), (108, 11222), (131, 11414), (133, 11432), (136, 11453), (137, 11459), (140, 11495), (144, 11537), (153, 11579), (156, 11615), (157, 11624), (159, 11639), (162, 11660), (167, 11705), (194, 11963), (199, 12005), (205, 12062), (210, 12137), (217, 12206), (223, 12236), (233, 12296), (237, 12317), (242, 12335), (247, 12359), (248, 12362), (249, 12365), (254, 12383), (267, 12434), (269, 12446), (270, 12452), (272, 12464), (278, 12485), (279, 12488), (282, 12503), (283, 12506), (299, 12581), (305, 12605), (316, 12641), (328, 12710), (339, 12755), (342, 12764), (349, 12797), (356, 12821), (357, 12824), (363, 12848), (366, 12875), (367, 12884), (374, 12938), (422, 13160), (437, 13214), (441, 13238), (449, 13304), (453, 13316), (456, 13325), (468, 13379), (470, 13391), (473, 13403), (477, 13430), (485, 13496), (486, 13499), (488, 13508), (495, 13544), (502, 13577), (503, 13604), (508, 13631), (509, 13634), (583, 13787), (586, 13808), (623, 13940), (630, 13991), (645, 14054), (665, 14105), (667, 14129), (678, 14174), (682, 14207), (703, 14306), (708, 14318), (733, 14420), (736, 14432), (751, 14498), (754, 14504), (755, 14507), (770, 14591), (780, 14630), (781, 14636), (787, 14669), (822, 14840), (833, 14909), (836, 14921), (841, 14948), (842, 14951), (875, 15119), (876, 15128), (879, 15134), (889, 15251), (899, 15302), (903, 15320), (904, 15335), (916, 15410), (919, 15425), (923, 15443), (925, 15449), (931, 15503), (932, 15506), (937, 15548), (947, 15647),

Gene: FeliMaine_50 Start: 20890, Stop: 26439, Start Num: 1
Candidate Starts for FeliMaine_50:
(Start: 1 @20890 has 18 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (15, 21418), (Start: 16 @21430 has 1 MA's), (20, 21463), (30, 21544), (31, 21547), (35, 21592), (37, 21613), (39, 21640), (43, 21682), (48, 21724), (57, 21784), (63, 21808), (70, 21844), (71, 21847), (89, 21928), (91, 21976), (96, 22006), (105, 22102), (114, 22186), (115, 22189), (122, 22237), (130, 22312), (137, 22360), (143, 22456), (146, 22474), (148, 22492), (152, 22504), (157, 22552), (161, 22576), (162, 22588), (164, 22609), (173, 22708), (181, 22756), (185, 22789), (190, 22831), (195, 22900), (201, 22969), (204, 22978), (205, 22981), (214, 23101), (216, 23113), (221, 23143), (230, 23188), (232, 23209), (240, 23245), (250, 23272), (257, 23299), (258, 23302), (260, 23311), (274, 23368), (336, 23611), (344, 23632), (353, 23674), (366, 23734), (402, 23929), (407, 23944), (409, 23953), (413, 23977), (416, 23989), (418, 23992), (421, 24007), (429, 24040), (446, 24118), (463, 24205), (469, 24241), (477, 24289), (479, 24316), (501, 24430), (504, 24463), (518, 24508), (537, 24559), (557, 24607), (560, 24616), (566, 24637), (591, 24718), (599, 24760), (617, 24838), (618, 24841), (634, 24907), (642, 24958), (663, 25027), (692, 25183), (698, 25222), (719, 25324), (723, 25336), (762, 25489), (764, 25492), (785, 25603), (790, 25621), (794, 25651), (805, 25693), (811, 25732), (820, 25783), (859, 25993), (870, 26071), (885, 26149), (890, 26227), (915, 26377), (917, 26383),

Gene: Finemlucis_16 Start: 10856, Stop: 15991, Start Num: 17
Candidate Starts for Finemlucis_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (330, 12977), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839), (934, 15869), (937, 15884), (947, 15983),

Gene: Finnry_17 Start: 10973, Stop: 16405, Start Num: 17
Candidate Starts for Finnry_17:
(Start: 17 @10973 has 104 MA's), (21, 11003), (23, 11012), (32, 11093), (33, 11120), (34, 11123), (45, 11222), (58, 11318), (62, 11333), (66, 11357), (73, 11381), (74, 11384), (78, 11396), (97, 11531), (102, 11594), (108, 11639), (109, 11642), (125, 11786), (133, 11849), (140, 11912), (153, 11996), (160, 12062), (182, 12251), (188, 12296), (189, 12299), (199, 12422), (200, 12431), (208, 12539), (209, 12548), (224, 12656), (225, 12659), (230, 12689), (231, 12707), (233, 12713), (237, 12734), (242, 12752), (255, 12803), (269, 12863), (271, 12881), (279, 12905), (299, 12998), (305, 13022), (312, 13043), (316, 13058), (321, 13079), (329, 13124), (333, 13139), (352, 13214), (376, 13352), (387, 13397), (420, 13523), (423, 13538), (430, 13562), (432, 13568), (434, 13574), (443, 13622), (473, 13778), (477, 13805), (479, 13832), (488, 13880), (494, 13913), (495, 13916), (503, 13973), (535, 14111), (537, 14114), (585, 14333), (593, 14351), (595, 14360), (610, 14435), (624, 14483), (626, 14510), (629, 14528), (661, 14684), (671, 14741), (677, 14777), (680, 14786), (684, 14822), (699, 14900), (701, 14921), (717, 15005), (721, 15032), (730, 15074), (731, 15080), (733, 15089), (740, 15134), (743, 15143), (752, 15188), (754, 15200), (793, 15425), (813, 15509), (826, 15611), (839, 15659), (841, 15671), (847, 15701), (850, 15707), (853, 15722), (858, 15776), (889, 16004), (895, 16037), (899, 16055), (903, 16073), (904, 16088), (913, 16148), (923, 16193), (931, 16253), (937, 16298), (939, 16301), (947, 16397),

Gene: FreakyGoo_27 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for FreakyGoo_27:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972,

20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Gabriela_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Gabriela_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Gardann_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for Gardann_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: GardenSalsa_30 Start: 15195, Stop: 22001, Start Num: 17
Candidate Starts for GardenSalsa_30:
(Start: 17 @15195 has 104 MA's), (28, 15285), (36, 15345), (40, 15387), (80, 15627), (87, 15657), (93, 15729), (100, 15795), (107, 15846), (108, 15858), (110, 15867), (120, 15954), (123, 15987), (128, 16029), (130, 16047), (161, 16278), (169, 16344), (180, 16455), (188, 16509), (197, 16617), (200, 16644), (214, 16821), (219, 16851), (223, 16872), (232, 16938), (234, 16944), (239, 16968), (245, 16995), (246, 16998), (256, 17037), (259, 17055), (295, 17214), (310, 17289), (324, 17343), (343, 17451), (388, 17739), (394, 17769), (397, 17784), (412, 17844), (433, 17940), (442, 17988), (450, 18066), (458, 18093), (460, 18105), (482, 18270), (483, 18282), (491, 18321), (496, 18348), (512, 18447), (513, 18477), (515, 18486), (540, 18591), (547, 18612), (584, 18795), (633, 19026), (635,

19029), (640, 19092), (658, 19167), (660, 19182), (710, 19467), (734, 19563), (760, 19686), (774, 19758), (777, 19770), (789, 19848), (804, 19935), (829, 20130), (830, 20142), (843, 20205), (865, 20373), (868, 20385), (882, 20457), (884, 20466), (953, 21054), (958, 21144), (963, 21237), (965, 21267), (971, 21339), (978, 21468), (983, 21549), (991, 21663), (992, 21675), (1004, 21783), (1007, 21798), (1014, 21879), (1024, 21975),

Gene: Gattaca_47 Start: 20069, Stop: 25618, Start Num: 1
Candidate Starts for Gattaca_47:
(Start: 1 @20069 has 18 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (15, 20597), (Start: 16 @20609 has 1 MA's), (20, 20642), (30, 20723), (31, 20726), (35, 20771), (37, 20792), (39, 20819), (43, 20861), (48, 20903), (57, 20963), (63, 20987), (70, 21023), (71, 21026), (75, 21038), (89, 21107), (91, 21155), (96, 21185), (105, 21281), (114, 21365), (115, 21368), (122, 21416), (130, 21491), (137, 21539), (143, 21635), (146, 21653), (148, 21671), (152, 21683), (157, 21731), (161, 21755), (162, 21767), (164, 21788), (173, 21887), (181, 21935), (185, 21968), (190, 22010), (195, 22079), (201, 22148), (204, 22157), (205, 22160), (214, 22280), (216, 22292), (221, 22322), (230, 22367), (232, 22388), (240, 22424), (250, 22451), (257, 22478), (258, 22481), (260, 22490), (274, 22547), (313, 22676), (336, 22790), (344, 22811), (353, 22853), (366, 22913), (402, 23108), (407, 23123), (409, 23132), (413, 23156), (416, 23168), (418, 23171), (421, 23186), (429, 23219), (446, 23297), (463, 23384), (469, 23420), (477, 23468), (479, 23495), (501, 23609), (504, 23642), (518, 23687), (537, 23738), (557, 23786), (560, 23795), (566, 23816), (591, 23897), (599, 23939), (617, 24017), (618, 24020), (634, 24086), (642, 24137), (663, 24206), (692, 24362), (698, 24401), (719, 24503), (723, 24515), (762, 24668), (764, 24671), (785, 24782), (794, 24830), (805, 24872), (811, 24911), (820, 24962), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: GenevaB15_30 Start: 15222, Stop: 22046, Start Num: 17
Candidate Starts for GenevaB15_30:
(Start: 17 @15222 has 104 MA's), (28, 15312), (36, 15372), (40, 15414), (80, 15654), (87, 15684), (100, 15822), (107, 15873), (108, 15885), (110, 15894), (120, 15981), (123, 16014), (130, 16074), (161, 16305), (169, 16371), (176, 16461), (180, 16482), (188, 16536), (197, 16644), (200, 16671), (214, 16848), (219, 16878), (232, 16965), (234, 16971), (239, 16995), (245, 17022), (246, 17025), (256, 17064), (259, 17082), (295, 17241), (310, 17316), (324, 17370), (343, 17478), (345, 17484), (388, 17766), (394, 17796), (397, 17811), (412, 17871), (436, 17985), (442, 18015), (450, 18093), (458, 18120), (482, 18297), (483, 18309), (491, 18348), (512, 18474), (513, 18504), (515, 18513), (540, 18618), (547, 18639), (584, 18822), (633, 19053), (635, 19056), (640, 19119), (658, 19194), (710, 19494), (760, 19731), (774, 19803), (777, 19815), (789, 19893), (804, 19980), (829, 20175), (843, 20250), (865, 20418), (868, 20430), (882, 20502), (884, 20511), (953, 21099), (958, 21189), (959, 21213), (963, 21282), (965, 21312), (971, 21384), (978, 21513), (983, 21594), (991, 21708), (992, 21720), (993, 21735), (1007, 21843), (1014, 21924), (1024, 22020),

Gene: Glaske16_27 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for Glaske16_27:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851,

19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: GoongGoong_47 Start: 20109, Stop: 25658, Start Num: 1
Candidate Starts for GoongGoong_47:
(Start: 1 @20109 has 18 MA's), (Start: 2 @20151 has 2 MA's), (3, 20295), (4, 20313), (5, 20325), (7, 20478), (15, 20637), (Start: 16 @20649 has 1 MA's), (20, 20682), (30, 20763), (31, 20766), (35, 20811), (37, 20832), (39, 20859), (43, 20901), (48, 20943), (57, 21003), (63, 21027), (70, 21063), (71, 21066), (89, 21147), (91, 21195), (96, 21225), (114, 21405), (115, 21408), (122, 21456), (130, 21531), (137, 21579), (143, 21675), (146, 21693), (148, 21711), (152, 21723), (157, 21771), (161, 21795), (162, 21807), (164, 21828), (173, 21927), (181, 21975), (185, 22008), (190, 22050), (195, 22119), (201, 22188), (204, 22197), (205, 22200), (214, 22320), (216, 22332), (221, 22362), (230, 22407), (232, 22428), (240, 22464), (250, 22491), (257, 22518), (258, 22521), (260, 22530), (274, 22587), (313, 22716), (336, 22830), (344, 22851), (353, 22893), (366, 22953), (402, 23148), (407, 23163), (409, 23172), (413, 23196), (416, 23208), (418, 23211), (421, 23226), (429, 23259), (446, 23337), (463, 23424), (469, 23460), (477, 23508), (479, 23535), (501, 23649), (504, 23682), (518, 23727), (537, 23778), (557, 23826), (560, 23835), (566, 23856), (591, 23937), (599, 23979), (617, 24057), (618, 24060), (634, 24126), (642, 24177), (663, 24246), (692, 24402), (698, 24441), (719, 24543), (723, 24555), (762, 24708), (764, 24711), (785, 24822), (790, 24840), (794, 24870), (805, 24912), (811, 24951), (820, 25002), (859, 25212), (870, 25290), (885, 25368), (890, 25446), (915, 25596), (917, 25602),

Gene: GuuelaD_16 Start: 10890, Stop: 16019, Start Num: 17
Candidate Starts for GuuelaD_16:
(Start: 17 @10890 has 104 MA's), (Start: 22 @10926 has 1 MA's), (23, 10929), (29, 10992), (33, 11037), (40, 11091), (55, 11175), (56, 11184), (66, 11238), (72, 11259), (73, 11262), (74, 11265), (79, 11286), (82, 11298), (85, 11310), (88, 11328), (92, 11373), (97, 11412), (102, 11475), (108, 11520), (109, 11523), (111, 11541), (114, 11583), (130, 11709), (135, 11736), (139, 11772), (140, 11793), (146, 11844), (157, 11922), (162, 11958), (165, 11991), (178, 12114), (188, 12177), (189, 12180), (190, 12201), (196, 12282), (199, 12303), (204, 12357), (213, 12474), (217, 12504), (223, 12534), (225, 12540), (241, 12630), (243, 12639), (251, 12669), (252, 12672), (256, 12690), (257, 12693), (273, 12759), (276, 12765), (281, 12789), (283, 12798), (286, 12810), (291, 12825), (299, 12873), (305, 12897), (312, 12918), (316, 12933), (319, 12945), (330, 13011), (342, 13059), (389, 13314), (394, 13335), (419, 13422), (422, 13443), (427, 13461), (448, 13584), (451, 13596), (477, 13725), (488, 13806), (495, 13842), (537, 13998), (582, 14085), (586, 14103), (597, 14139), (623, 14235), (638, 14319), (641, 14346), (650, 14367), (656, 14400), (667, 14451), (668, 14457), (674, 14478), (678, 14496), (682, 14529), (683, 14532), (715, 14679), (720, 14700), (728, 14724), (733, 14754), (736, 14766), (739, 14784), (750, 14829), (751, 14832), (770, 14925), (812, 15114), (822, 15174), (841, 15282), (846, 15309), (848, 15315), (855, 15333), (883, 15516), (889, 15615), (895, 15648), (897, 15657), (901, 15678), (923, 15813), (925, 15819), (931, 15867), (932, 15870), (937, 15912), (947, 16011),

Gene: Hafay_16 Start: 10889, Stop: 16018, Start Num: 17
Candidate Starts for Hafay_16:
(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394,

13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Halena_16 Start: 10837, Stop: 15777, Start Num: 17
Candidate Starts for Halena_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14146), (616, 14155), (619, 14161), (626, 14197), (630, 14215), (637, 14245), (664, 14356), (675, 14416), (679, 14431), (686, 14473), (688, 14476), (713, 14596), (745, 14722), (746, 14725), (757, 14758), (765, 14794), (771, 14830), (775, 14845), (778, 14857), (809, 14983), (826, 15106), (836, 15139), (867, 15199), (875, 15241), (907, 15493), (923, 15571), (925, 15577), (931, 15625), (932, 15628), (937, 15670), (939, 15673), (947, 15769),

Gene: Hiraya_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Hiraya_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Huphlepuff_50 Start: 20694, Stop: 26243, Start Num: 1
Candidate Starts for Huphlepuff_50:

(Start: 1 @20694 has 18 MA's), (Start: 2 @20736 has 2 MA's), (3, 20880), (4, 20898), (5, 20910), (7, 21063), (15, 21222), (Start: 16 @21234 has 1 MA's), (20, 21267), (30, 21348), (31, 21351), (35, 21396), (37, 21417), (39, 21444), (43, 21486), (48, 21528), (57, 21588), (63, 21612), (70, 21648), (71, 21651), (89, 21732), (91, 21780), (96, 21810), (114, 21990), (115, 21993), (122, 22041), (130, 22116), (137, 22164), (143, 22260), (146, 22278), (148, 22296), (152, 22308), (157, 22356), (161, 22380), (162, 22392), (164, 22413), (173, 22512), (181, 22560), (185, 22593), (190, 22635), (195, 22704), (201, 22773), (204, 22782), (205, 22785), (214, 22905), (216, 22917), (221, 22947), (230, 22992), (232, 23013), (240, 23049), (250, 23076), (257, 23103), (258, 23106), (260, 23115), (274, 23172), (313, 23301), (336, 23415), (344, 23436), (353, 23478), (366, 23538), (402, 23733), (407, 23748), (409, 23757), (413, 23781), (416, 23793), (418, 23796), (421, 23811), (429, 23844), (446, 23922), (463, 24009), (469, 24045), (477, 24093), (479, 24120), (501, 24234), (504, 24267), (518, 24312), (537, 24363), (557, 24411), (560, 24420), (566, 24441), (591, 24522), (599, 24564), (617, 24642), (618, 24645), (634, 24711), (642, 24762), (663, 24831), (692, 24987), (698, 25026), (719, 25128), (723, 25140), (762, 25293), (764, 25296), (785, 25407), (790, 25425), (794, 25455), (805, 25497), (811, 25536), (820, 25587), (859, 25797), (870, 25875), (885, 25953), (890, 26031), (915, 26181), (917, 26187),

Gene: IPhane7_26 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for IPhane7_26:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Ibrahim_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for Ibrahim_17:
(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Itos_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Itos_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899),

(319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Izel_27 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for Izel_27:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: Jobypre_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for Jobypre_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: JoeDirt_16 Start: 10837, Stop: 15768, Start Num: 17
Candidate Starts for JoeDirt_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959),

(178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (541, 13957), (592, 14062), (596, 14080), (615, 14149), (616, 14158), (619, 14164), (626, 14200), (630, 14218), (637, 14248), (664, 14359), (675, 14419), (679, 14434), (686, 14476), (688, 14479), (713, 14599), (745, 14725), (746, 14728), (757, 14761), (765, 14797), (770, 14830), (771, 14833), (775, 14848), (778, 14860), (786, 14899), (809, 14986), (826, 15109), (836, 15142), (839, 15157), (844, 15163), (867, 15190), (875, 15232), (907, 15484), (923, 15562), (925, 15568), (931, 15616), (932, 15619), (937, 15661), (939, 15664), (947, 15760),

Gene: JoieB_49 Start: 20913, Stop: 26435, Start Num: 1
Candidate Starts for JoieB_49:
(Start: 1 @20913 has 18 MA's), (Start: 2 @20955 has 2 MA's), (3, 21099), (4, 21117), (5, 21129), (7, 21282), (15, 21441), (Start: 16 @21453 has 1 MA's), (20, 21486), (30, 21567), (31, 21570), (35, 21615), (37, 21636), (39, 21663), (43, 21705), (48, 21747), (57, 21807), (63, 21831), (70, 21867), (71, 21870), (89, 21951), (91, 21999), (96, 22029), (105, 22125), (114, 22209), (115, 22212), (122, 22260), (130, 22335), (137, 22383), (143, 22479), (146, 22497), (148, 22515), (152, 22527), (157, 22575), (161, 22599), (162, 22611), (164, 22632), (173, 22731), (181, 22779), (185, 22812), (190, 22854), (195, 22923), (201, 22992), (204, 23001), (205, 23004), (214, 23124), (216, 23136), (221, 23166), (230, 23211), (232, 23232), (240, 23268), (250, 23295), (257, 23322), (258, 23325), (260, 23334), (274, 23391), (336, 23634), (344, 23655), (353, 23697), (366, 23757), (402, 23952), (407, 23967), (409, 23976), (413, 24000), (416, 24012), (418, 24015), (421, 24030), (429, 24063), (446, 24141), (447, 24162), (463, 24228), (469, 24264), (477, 24312), (479, 24339), (501, 24453), (504, 24486), (518, 24531), (537, 24582), (560, 24639), (566, 24660), (591, 24741), (599, 24783), (617, 24861), (618, 24864), (634, 24930), (642, 24981), (673, 25113), (692, 25209), (698, 25248), (719, 25350), (723, 25362), (762, 25515), (764, 25518), (785, 25629), (790, 25647), (805, 25719), (816, 25785), (837, 25881), (844, 25908), (859, 25989), (870, 26067), (885, 26145), (890, 26223), (915, 26373), (917, 26379),

Gene: Jubie_17 Start: 10976, Stop: 16402, Start Num: 17
Candidate Starts for Jubie_17:
(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (62, 11336), (66, 11360), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (133, 11852), (139, 11894), (140, 11915), (153, 11999), (160, 12065), (182, 12254), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (208, 12542), (209, 12551), (224, 12659), (225, 12662), (230, 12692), (231, 12710), (233, 12716), (237, 12737), (242, 12755), (255, 12806), (269, 12866), (271, 12884), (279, 12908), (299, 13001), (305, 13025), (312, 13046), (316, 13061), (321, 13082), (329, 13127), (333, 13142), (352, 13217), (376, 13355), (387, 13400), (420, 13526), (423, 13541), (430, 13565), (432, 13571), (434, 13577), (443, 13625), (473, 13781), (477, 13808), (479, 13835), (488, 13883), (494, 13916), (495, 13919), (502, 13949), (503, 13976), (535, 14114), (537, 14117), (542, 14153), (585, 14330), (593, 14348), (595, 14357), (603, 14399), (610, 14429), (621, 14465), (624, 14477), (626, 14504), (629, 14522), (661, 14681), (671, 14738), (677, 14774), (680, 14783), (684, 14819), (699, 14897), (701, 14918), (717, 15002), (721, 15029), (730, 15071), (731, 15077), (733, 15086), (740, 15131), (743, 15140), (752, 15185), (754, 15197), (793, 15422), (797, 15434), (813, 15506), (826, 15608), (841, 15668), (847, 15698), (850, 15704), (853, 15719), (858, 15773), (889, 16001), (895, 16034), (899, 16052), (903, 16070), (904, 16085), (913, 16145), (923, 16190), (931, 16250), (937, 16295), (939, 16298), (947, 16394),

Gene: Kahlid_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for Kahlid_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (330, 12976), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: Kingsolomon_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for Kingsolomon_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: KirDoubleO7_15 Start: 10990, Stop: 16410, Start Num: 17
Candidate Starts for KirDoubleO7_15:
(Start: 17 @10990 has 104 MA's), (21, 11020), (23, 11029), (32, 11110), (33, 11137), (34, 11140), (45, 11239), (58, 11335), (66, 11374), (73, 11398), (74, 11401), (78, 11413), (97, 11548), (102, 11611), (108, 11656), (109, 11659), (125, 11803), (131, 11848), (139, 11908), (140, 11929), (153, 12013), (157, 12058), (160, 12079), (184, 12292), (188, 12313), (189, 12316), (199, 12439), (200, 12448), (208, 12556), (209, 12565), (224, 12673), (225, 12676), (231, 12724), (233, 12730), (237, 12751), (242, 12769), (255, 12820), (269, 12880), (279, 12922), (299, 13015), (305, 13039), (312, 13060), (316, 13075), (321, 13096), (329, 13141), (333, 13156), (352, 13231), (376, 13369), (387, 13414), (420, 13540), (423, 13555), (430, 13579), (443, 13639), (473, 13795), (477, 13822), (479, 13849), (488, 13897), (494, 13930), (503, 13990), (535, 14128), (537, 14131), (542, 14173), (585, 14347), (593, 14365), (595, 14374), (610, 14446), (624, 14494), (626, 14521), (629, 14539), (661, 14698), (671, 14755), (677, 14791), (680, 14800), (684, 14836), (699, 14914), (701, 14935), (721, 15046),

(730, 15088), (731, 15094), (733, 15103), (740, 15148), (743, 15157), (752, 15202), (754, 15214), (793, 15439), (797, 15451), (813, 15523), (826, 15625), (839, 15673), (841, 15685), (847, 15715), (850, 15721), (853, 15736), (858, 15790), (895, 16042), (899, 16060), (903, 16078), (904, 16093), (913, 16153), (923, 16198), (925, 16204), (931, 16258), (932, 16261), (937, 16303), (939, 16306), (947, 16402),

Gene: KleverKiS_26 Start: 14619, Stop: 21440, Start Num: 17
Candidate Starts for KleverKiS_26:
(Start: 17 @14619 has 104 MA's), (19, 14634), (28, 14709), (32, 14730), (36, 14769), (41, 14817), (51, 14919), (86, 15075), (100, 15219), (108, 15282), (110, 15291), (119, 15372), (122, 15396), (124, 15420), (128, 15453), (130, 15471), (131, 15474), (141, 15555), (143, 15588), (163, 15729), (175, 15855), (198, 16056), (200, 16074), (211, 16221), (214, 16251), (234, 16374), (294, 16629), (295, 16632), (301, 16665), (303, 16668), (307, 16686), (309, 16695), (314, 16710), (318, 16725), (320, 16734), (326, 16761), (337, 16839), (358, 16920), (373, 17040), (400, 17181), (409, 17214), (431, 17313), (442, 17379), (450, 17454), (464, 17526), (490, 17703), (498, 17745), (510, 17832), (512, 17835), (520, 17886), (547, 17991), (552, 18009), (556, 18021), (572, 18093), (577, 18114), (598, 18231), (605, 18267), (613, 18312), (633, 18417), (647, 18495), (651, 18510), (706, 18822), (727, 18918), (736, 18966), (742, 19002), (748, 19035), (760, 19080), (762, 19098), (779, 19185), (782, 19206), (784, 19233), (817, 19455), (832, 19554), (835, 19563), (838, 19584), (849, 19638), (851, 19650), (874, 19818), (884, 19863), (917, 20121), (935, 20265), (936, 20274), (972, 20802), (978, 20919), (984, 20988), (986, 21006), (996, 21120), (998, 21150), (1007, 21234), (1011, 21282), (1016, 21327), (1024, 21414),

Gene: Kropertea_16 Start: 10531, Stop: 15624, Start Num: 17
Candidate Starts for Kropertea_16:
(Start: 17 @10531 has 104 MA's), (21, 10561), (23, 10570), (33, 10678), (38, 10708), (47, 10810), (51, 10834), (61, 10888), (62, 10891), (66, 10915), (69, 10921), (73, 10939), (78, 10954), (82, 10975), (85, 10987), (102, 11152), (108, 11197), (136, 11428), (137, 11434), (140, 11470), (144, 11512), (153, 11554), (156, 11590), (157, 11599), (159, 11614), (162, 11635), (167, 11680), (188, 11854), (199, 11980), (205, 12037), (210, 12112), (217, 12181), (223, 12211), (225, 12217), (233, 12271), (237, 12292), (249, 12340), (254, 12358), (272, 12439), (278, 12460), (279, 12463), (283, 12481), (288, 12496), (299, 12556), (305, 12580), (316, 12616), (328, 12685), (335, 12712), (339, 12730), (342, 12739), (349, 12772), (356, 12796), (357, 12799), (363, 12823), (367, 12859), (391, 13009), (411, 13078), (422, 13135), (441, 13213), (449, 13279), (456, 13300), (468, 13354), (470, 13366), (473, 13378), (477, 13405), (485, 13471), (486, 13474), (488, 13483), (495, 13519), (501, 13549), (508, 13591), (509, 13594), (511, 13600), (522, 13627), (543, 13681), (582, 13747), (586, 13771), (623, 13903), (630, 13954), (638, 13993), (665, 14068), (667, 14092), (670, 14107), (676, 14128), (678, 14137), (682, 14170), (703, 14269), (708, 14281), (733, 14383), (736, 14395), (750, 14458), (751, 14461), (770, 14554), (780, 14593), (781, 14599), (822, 14803), (836, 14884), (841, 14911), (842, 14914), (855, 14959), (876, 15091), (879, 15097), (889, 15214), (895, 15247), (899, 15265), (903, 15283), (904, 15298), (916, 15379), (919, 15394), (923, 15412), (925, 15418), (931, 15472), (932, 15475), (937, 15517),

Gene: Krypton555_17 Start: 10964, Stop: 16339, Start Num: 17
Candidate Starts for Krypton555_17:
(Start: 17 @10964 has 104 MA's), (21, 10994), (23, 11003), (32, 11084), (33, 11111), (34, 11114), (45, 11213), (58, 11309), (62, 11324), (66, 11348), (73, 11372), (74, 11375), (78, 11387), (97, 11522), (102, 11585), (108, 11630), (109, 11633), (125, 11777), (139, 11882), (140, 11903), (153, 11987), (160, 12053), (188, 12287), (189, 12290), (199, 12413), (200, 12422), (208, 12530), (209, 12539), (224, 12647), (225, 12650), (230, 12680), (231, 12698), (233, 12704), (237, 12725), (242, 12743), (255, 12794), (269, 12854), (279, 12896), (299, 12989), (305, 13013), (312, 13034), (316, 13049), (321, 13070), (329, 13115), (333, 13130), (352, 13205), (376, 13343), (387, 13388), (420, 13514), (430, 13553), (434, 13565), (443, 13613), (474, 13781), (477, 13796), (479, 13823), (488, 13871), (494,

13904), (495, 13907), (502, 13937), (503, 13964), (542, 14147), (553, 14165), (585, 14324), (593, 14342), (595, 14351), (624, 14423), (626, 14450), (629, 14468), (661, 14627), (671, 14684), (675, 14711), (677, 14720), (680, 14729), (684, 14765), (699, 14843), (701, 14864), (721, 14975), (730, 15017), (731, 15023), (733, 15032), (740, 15077), (743, 15086), (752, 15131), (754, 15143), (793, 15368), (797, 15380), (813, 15452), (826, 15554), (841, 15614), (847, 15644), (850, 15650), (853, 15665), (858, 15719), (889, 15938), (895, 15971), (899, 15989), (903, 16007), (904, 16022), (913, 16082), (923, 16127), (931, 16187), (937, 16232), (939, 16235), (947, 16331),

Gene: Kumao_26 Start: 14486, Stop: 20476, Start Num: 16
Candidate Starts for Kumao_26:
(Start: 16 @14486 has 1 MA's), (36, 14636), (87, 14927), (103, 15089), (124, 15266), (131, 15320), (140, 15410), (143, 15443), (149, 15482), (153, 15494), (155, 15518), (158, 15551), (166, 15617), (168, 15620), (174, 15698), (178, 15731), (179, 15734), (180, 15740), (182, 15749), (188, 15794), (190, 15818), (196, 15899), (197, 15902), (208, 16043), (217, 16127), (224, 16160), (237, 16247), (241, 16262), (269, 16379), (292, 16463), (299, 16490), (306, 16517), (311, 16526), (315, 16538), (340, 16640), (346, 16658), (347, 16667), (360, 16700), (371, 16769), (372, 16772), (377, 16799), (381, 16829), (382, 16832), (390, 16856), (404, 16907), (408, 16922), (443, 17018), (450, 17060), (484, 17225), (514, 17399), (517, 17408), (519, 17411), (521, 17414), (529, 17444), (551, 17525), (564, 17567), (570, 17600), (571, 17603), (573, 17606), (589, 17702), (606, 17762), (614, 17798), (622, 17822), (627, 17843), (684, 18095), (702, 18194), (704, 18203), (709, 18227), (712, 18239), (716, 18251), (732, 18311), (737, 18332), (742, 18362), (753, 18413), (769, 18494), (788, 18587), (806, 18668), (810, 18689), (845, 18878), (846, 18887), (865, 19019), (871, 19049), (880, 19091), (882, 19100), (887, 19148), (891, 19187), (893, 19202), (894, 19205), (909, 19277), (911, 19283), (927, 19358), (928, 19361), (944, 19496), (946, 19505), (950, 19577), (952, 19613), (957, 19655), (960, 19697), (962, 19721), (964, 19784), (976, 19946), (987, 20066), (991, 20117), (994, 20153), (1000, 20219), (1001, 20234), (1006, 20270), (1008, 20282), (1010, 20315), (1013, 20351), (1015, 20357), (1021, 20429), (1024, 20447),

Gene: LeBron_16 Start: 10837, Stop: 15801, Start Num: 17
Candidate Starts for LeBron_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (62, 11182), (65, 11203), (66, 11206), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14170), (616, 14179), (619, 14185), (626, 14221), (630, 14239), (637, 14269), (664, 14380), (675, 14440), (679, 14455), (686, 14497), (688, 14500), (713, 14620), (745, 14746), (746, 14749), (757, 14782), (765, 14818), (771, 14854), (775, 14869), (778, 14881), (809, 15007), (826, 15130), (836, 15163), (867, 15223), (875, 15265), (907, 15517), (923, 15595), (925, 15601), (931, 15649), (932, 15652), (937, 15694), (939, 15697), (947, 15793),

Gene: Lewan_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Lewan_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (66, 11204), (72, 11225), (73,

11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (330, 12977), (342, 13025), (378, 13238), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: LilDestine_16 Start: 10855, Stop: 15984, Start Num: 17
Candidate Starts for LilDestine_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13966), (582, 14053), (583, 14056), (586, 14071), (597, 14107), (623, 14203), (630, 14254), (638, 14293), (647, 14329), (650, 14338), (656, 14371), (665, 14398), (667, 14422), (668, 14428), (674, 14449), (676, 14458), (678, 14467), (682, 14500), (683, 14503), (720, 14668), (728, 14692), (733, 14722), (736, 14734), (739, 14752), (750, 14797), (751, 14800), (770, 14893), (822, 15142), (826, 15190), (841, 15250), (846, 15277), (848, 15283), (852, 15292), (855, 15301), (875, 15451), (883, 15484), (889, 15583), (895, 15616), (897, 15625), (901, 15646), (923, 15778), (925, 15784), (931, 15832), (934, 15862), (937, 15877), (947, 15976),

Gene: Lilbit_47 Start: 20890, Stop: 26439, Start Num: 1
Candidate Starts for Lilbit_47:
(Start: 1 @20890 has 18 MA's), (Start: 2 @20932 has 2 MA's), (3, 21076), (4, 21094), (5, 21106), (7, 21259), (15, 21418), (Start: 16 @21430 has 1 MA's), (20, 21463), (30, 21544), (31, 21547), (35, 21592), (37, 21613), (39, 21640), (43, 21682), (48, 21724), (57, 21784), (63, 21808), (70, 21844), (71, 21847), (89, 21928), (91, 21976), (96, 22006), (114, 22186), (115, 22189), (122, 22237), (130, 22312), (137, 22360), (143, 22456), (146, 22474), (148, 22492), (152, 22504), (157, 22552), (161, 22576), (162, 22588), (164, 22609), (173, 22708), (181, 22756), (185, 22789), (190, 22831), (195, 22900), (201, 22969), (204, 22978), (205, 22981), (214, 23101), (216, 23113), (221, 23143), (230, 23188), (232, 23209), (240, 23245), (250, 23272), (257, 23299), (258, 23302), (260, 23311), (274, 23368), (313, 23497), (336, 23611), (344, 23632), (353, 23674), (366, 23734), (402, 23929), (407, 23944), (409, 23953), (413, 23977), (416, 23989), (418, 23992), (421, 24007), (429, 24040), (446, 24118), (463, 24205), (469, 24241), (477, 24289), (479, 24316), (501, 24430), (504, 24463), (518, 24508), (537, 24559), (557, 24607), (560, 24616), (566, 24637), (591, 24718), (599, 24760), (617, 24838), (618, 24841), (634, 24907), (642, 24958), (663, 25027), (692, 25183), (698, 25222), (719, 25324), (723, 25336), (762, 25489), (764, 25492), (785, 25603), (790, 25621), (794, 25651), (805, 25693), (811, 25732), (820, 25783), (859, 25993), (870, 26071), (885, 26149), (890, 26227), (915, 26377),

(917, 26383),

Gene: LilhomieP_25 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for LilhomieP_25:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: LittleLaf_48 Start: 20661, Stop: 26168, Start Num: 2
Candidate Starts for LittleLaf_48:
(Start: 1 @20619 has 18 MA's), (Start: 2 @20661 has 2 MA's), (3, 20805), (4, 20823), (5, 20835), (7, 20988), (15, 21147), (Start: 16 @21159 has 1 MA's), (20, 21192), (30, 21273), (31, 21276), (35, 21321), (37, 21342), (39, 21369), (43, 21411), (48, 21453), (57, 21513), (63, 21537), (70, 21573), (71, 21576), (89, 21657), (91, 21705), (96, 21735), (114, 21915), (115, 21918), (122, 21966), (130, 22041), (137, 22089), (143, 22185), (146, 22203), (148, 22221), (152, 22233), (157, 22281), (161, 22305), (162, 22317), (164, 22338), (173, 22437), (181, 22485), (185, 22518), (190, 22560), (195, 22629), (201, 22698), (204, 22707), (205, 22710), (214, 22830), (216, 22842), (221, 22872), (230, 22917), (232, 22938), (240, 22974), (250, 23001), (257, 23028), (258, 23031), (260, 23040), (274, 23097), (313, 23226), (336, 23340), (344, 23361), (353, 23403), (366, 23463), (402, 23658), (407, 23673), (409, 23682), (413, 23706), (416, 23718), (418, 23721), (421, 23736), (429, 23769), (446, 23847), (463, 23934), (469, 23970), (477, 24018), (479, 24045), (501, 24159), (504, 24192), (518, 24237), (537, 24288), (557, 24336), (560, 24345), (566, 24366), (591, 24447), (599, 24489), (617, 24567), (618, 24570), (634, 24636), (642, 24687), (663, 24756), (692, 24912), (698, 24951), (719, 25053), (723, 25065), (762, 25218), (764, 25221), (785, 25332), (790, 25350), (794, 25380), (805, 25422), (811, 25461), (820, 25512), (859, 25722), (870, 25800), (885, 25878), (890, 25956), (915, 26106), (917, 26112),

Gene: LiyuLake_17 Start: 10981, Stop: 16401, Start Num: 17
Candidate Starts for LiyuLake_17:
(Start: 17 @10981 has 104 MA's), (21, 11011), (23, 11020), (32, 11101), (33, 11128), (34, 11131), (45, 11230), (58, 11326), (66, 11365), (73, 11389), (74, 11392), (78, 11404), (97, 11539), (102, 11602), (108, 11647), (109, 11650), (125, 11794), (131, 11839), (139, 11899), (140, 11920), (153, 12004), (157, 12049), (160, 12070), (184, 12283), (188, 12304), (189, 12307), (199, 12430), (200, 12439), (208, 12547), (209, 12556), (224, 12664), (225, 12667), (231, 12715), (233, 12721), (237, 12742), (242, 12760), (255, 12811), (269, 12871), (279, 12913), (299, 13006), (305, 13030), (312, 13051), (316, 13066), (321, 13087), (329, 13132), (333, 13147), (352, 13222), (376, 13360), (387, 13405), (420, 13531), (423, 13546), (430, 13570), (443, 13630), (473, 13786), (477, 13813), (479, 13840), (488, 13888), (494, 13921), (503, 13981), (535, 14119), (537, 14122), (542, 14164), (585, 14338), (593, 14356), (595, 14365), (610, 14437), (624, 14485), (626, 14512), (629, 14530), (661, 14689), (671, 14746), (677, 14782), (680, 14791), (684, 14827), (699, 14905), (701, 14926), (721, 15037), (730, 15079), (731, 15085), (733, 15094), (740, 15139), (743, 15148), (752, 15193), (754, 15205), (793, 15430), (797, 15442), (813, 15514), (826, 15616), (839, 15664), (841, 15676), (847, 15706),

(850, 15712), (853, 15727), (858, 15781), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (925, 16195), (931, 16249), (932, 16252), (937, 16294), (939, 16297), (947, 16393),

Gene: Loadrie_16 Start: 10888, Stop: 16017, Start Num: 17
Candidate Starts for Loadrie_16:
(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (330, 13009), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: Lolly9_17 Start: 10976, Stop: 16219, Start Num: 17
Candidate Starts for Lolly9_17:
(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (131, 11834), (140, 11915), (153, 11999), (160, 12065), (184, 12278), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (224, 12659), (225, 12662), (233, 12716), (237, 12737), (279, 12908), (282, 12923), (299, 13001), (312, 13046), (316, 13061), (329, 13127), (342, 13172), (376, 13355), (387, 13400), (420, 13529), (422, 13541), (434, 13580), (443, 13628), (465, 13754), (473, 13784), (477, 13811), (492, 13913), (502, 13961), (526, 14081), (527, 14087), (566, 14228), (569, 14246), (602, 14396), (648, 14576), (653, 14585), (659, 14618), (674, 14693), (676, 14702), (678, 14711), (708, 14873), (717, 14903), (724, 14927), (726, 14933), (733, 14969), (736, 14981), (739, 14999), (749, 15041), (751, 15047), (758, 15068), (770, 15140), (814, 15353), (825, 15401), (826, 15434), (828, 15437), (841, 15494), (847, 15524), (850, 15530), (853, 15545), (858, 15599), (866, 15650), (895, 15851), (899, 15869), (904, 15902), (913, 15962), (923, 16007), (925, 16013), (937, 16112), (947, 16211),

Gene: Lumos_17 Start: 10975, Stop: 16398, Start Num: 17
Candidate Starts for Lumos_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661,

14677), (671, 14734), (677, 14770), (680, 14779), (684, 14815), (699, 14893), (701, 14914), (717, 14998), (721, 15025), (730, 15067), (731, 15073), (733, 15082), (740, 15127), (743, 15136), (752, 15181), (754, 15193), (793, 15418), (797, 15430), (813, 15502), (826, 15604), (841, 15664), (847, 15694), (850, 15700), (853, 15715), (858, 15769), (889, 15997), (895, 16030), (899, 16048), (903, 16066), (904, 16081), (913, 16141), (923, 16186), (931, 16246), (937, 16291), (939, 16294), (947, 16390),

Gene: Lynnae_16 Start: 10856, Stop: 15973, Start Num: 17
Candidate Starts for Lynnae_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (855, 15290), (875, 15440), (883, 15473), (889, 15572), (895, 15605), (897, 15614), (901, 15635), (923, 15767), (925, 15773), (931, 15821), (934, 15851), (937, 15866), (947, 15965),

Gene: MAckerman_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for MAckerman_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Marvin_46 Start: 20889, Stop: 26438, Start Num: 1
Candidate Starts for Marvin_46:
(Start: 1 @20889 has 18 MA's), (Start: 2 @20931 has 2 MA's), (3, 21075), (4, 21093), (5, 21105), (7, 21258), (15, 21417), (Start: 16 @21429 has 1 MA's), (20, 21462), (30, 21543), (31, 21546), (35, 21591), (37, 21612), (39, 21639), (43, 21681), (48, 21723), (57, 21783), (63, 21807), (70, 21843), (71, 21846), (89, 21927), (91, 21975), (96, 22005), (114, 22185), (115, 22188), (122, 22236), (130, 22311),

(137, 22359), (143, 22455), (146, 22473), (148, 22491), (152, 22503), (157, 22551), (161, 22575), (162, 22587), (164, 22608), (173, 22707), (181, 22755), (185, 22788), (190, 22830), (195, 22899), (201, 22968), (204, 22977), (205, 22980), (214, 23100), (216, 23112), (221, 23142), (230, 23187), (232, 23208), (240, 23244), (250, 23271), (257, 23298), (258, 23301), (260, 23310), (274, 23367), (313, 23496), (336, 23610), (344, 23631), (353, 23673), (366, 23733), (402, 23928), (407, 23943), (409, 23952), (413, 23976), (416, 23988), (418, 23991), (421, 24006), (429, 24039), (446, 24117), (463, 24204), (469, 24240), (477, 24288), (479, 24315), (501, 24429), (504, 24462), (518, 24507), (537, 24558), (557, 24606), (560, 24615), (566, 24636), (591, 24717), (599, 24759), (617, 24837), (618, 24840), (634, 24906), (642, 24957), (663, 25026), (692, 25182), (698, 25221), (719, 25323), (723, 25335), (762, 25488), (764, 25491), (785, 25602), (790, 25620), (794, 25650), (805, 25692), (811, 25731), (820, 25782), (859, 25992), (870, 26070), (885, 26148), (890, 26226), (915, 26376), (917, 26382),

Gene: MaryV_38 Start: 17698, Stop: 23649, Start Num: 17
Candidate Starts for MaryV_38:
(14, 17674), (Start: 17 @17698 has 104 MA's), (26, 17767), (27, 17779), (51, 17980), (55, 17998), (67, 18064), (81, 18127), (85, 18142), (86, 18145), (90, 18214), (102, 18319), (104, 18331), (106, 18346), (108, 18364), (116, 18442), (117, 18448), (121, 18469), (125, 18511), (131, 18556), (132, 18565), (133, 18574), (136, 18595), (138, 18616), (142, 18661), (144, 18694), (147, 18718), (150, 18727), (154, 18748), (163, 18826), (171, 18898), (172, 18907), (174, 18940), (186, 19021), (187, 19024), (200, 19165), (202, 19210), (208, 19279), (214, 19342), (220, 19375), (224, 19396), (228, 19426), (230, 19438), (231, 19456), (232, 19459), (237, 19483), (245, 19516), (262, 19576), (264, 19582), (266, 19594), (268, 19606), (275, 19636), (293, 19690), (299, 19711), (307, 19741), (313, 19753), (322, 19777), (324, 19783), (334, 19837), (337, 19849), (348, 19891), (351, 19906), (359, 19924), (364, 19942), (370, 19996), (372, 20005), (398, 20122), (399, 20125), (406, 20149), (454, 20314), (455, 20317), (460, 20329), (481, 20470), (494, 20539), (517, 20665), (531, 20707), (544, 20761), (546, 20764), (550, 20779), (562, 20815), (573, 20869), (579, 20899), (580, 20914), (584, 20947), (604, 21019), (608, 21043), (620, 21082), (628, 21118), (644, 21193), (708, 21493), (729, 21586), (735, 21613), (759, 21721), (761, 21742), (766, 21760), (773, 21799), (801, 21928), (803, 21940), (805, 21943), (819, 22030), (823, 22039), (831, 22084), (840, 22126), (845, 22150), (849, 22168), (854, 22183), (868, 22294), (870, 22306), (878, 22330), (893, 22423), (894, 22426), (899, 22441), (905, 22477), (906, 22486), (909, 22498), (928, 22582), (929, 22588), (930, 22591), (933, 22618), (940, 22654), (942, 22675), (943, 22678), (944, 22711), (949, 22744), (950, 22768), (951, 22789), (952, 22804), (954, 22819), (955, 22828), (961, 22894), (968, 23017), (974, 23062), (975, 23083), (977, 23128), (982, 23158), (988, 23269), (999, 23383), (1003, 23434), (1005, 23443), (1009, 23488), (1015, 23530), (1017, 23536), (1019, 23548), (1022, 23602), (1023, 23605),

Gene: Mendokysei_16 Start: 11901, Stop: 15827, Start Num: 76
Candidate Starts for Mendokysei_16:
(Start: 76 @11901 has 1 MA's), (98, 12051), (112, 12192), (126, 12291), (148, 12498), (157, 12552), (162, 12588), (180, 12753), (183, 12777), (265, 13299), (331, 13494), (379, 13686), (425, 13788), (438, 13839), (459, 13911), (474, 13992), (497, 14109), (509, 14175), (532, 14232), (685, 14631), (705, 14748), (747, 14901), (756, 14928), (763, 14958), (783, 15045), (832, 15273), (861, 15429), (870, 15483), (900, 15678), (908, 15732),

Gene: Miley16_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Miley16_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470),

(223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: MiniLon_17 Start: 10976, Stop: 16219, Start Num: 17
Candidate Starts for MiniLon_17:
(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (131, 11834), (140, 11915), (153, 11999), (160, 12065), (184, 12278), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (224, 12659), (225, 12662), (233, 12716), (237, 12737), (279, 12908), (282, 12923), (299, 13001), (312, 13046), (316, 13061), (329, 13127), (342, 13172), (376, 13355), (387, 13400), (420, 13529), (422, 13541), (434, 13580), (443, 13628), (465, 13754), (473, 13784), (477, 13811), (492, 13913), (502, 13961), (526, 14081), (527, 14087), (566, 14228), (569, 14246), (602, 14396), (648, 14576), (653, 14585), (659, 14618), (674, 14693), (676, 14702), (678, 14711), (708, 14873), (717, 14903), (724, 14927), (726, 14933), (733, 14969), (736, 14981), (739, 14999), (749, 15041), (751, 15047), (758, 15068), (770, 15140), (814, 15353), (825, 15401), (826, 15434), (828, 15437), (841, 15494), (847, 15524), (850, 15530), (853, 15545), (858, 15599), (866, 15650), (895, 15851), (899, 15869), (904, 15902), (913, 15962), (923, 16007), (925, 16013), (937, 16112), (947, 16211),

Gene: MiniMac_17 Start: 10977, Stop: 16220, Start Num: 17
Candidate Starts for MiniMac_17:
(Start: 17 @10977 has 104 MA's), (21, 11007), (23, 11016), (32, 11097), (33, 11124), (34, 11127), (45, 11226), (58, 11322), (73, 11385), (74, 11388), (78, 11400), (97, 11535), (102, 11598), (108, 11643), (109, 11646), (125, 11790), (131, 11835), (140, 11916), (153, 12000), (160, 12066), (184, 12279), (188, 12300), (189, 12303), (199, 12426), (200, 12435), (224, 12660), (225, 12663), (233, 12717), (237, 12738), (279, 12909), (282, 12924), (299, 13002), (312, 13047), (316, 13062), (329, 13128), (342, 13173), (376, 13356), (387, 13401), (420, 13530), (422, 13542), (434, 13581), (443, 13629), (465, 13755), (473, 13785), (477, 13812), (492, 13914), (502, 13962), (526, 14082), (527, 14088), (566, 14229), (569, 14247), (602, 14397), (648, 14577), (653, 14586), (659, 14619), (674, 14694), (676, 14703), (678, 14712), (708, 14874), (717, 14904), (724, 14928), (726, 14934), (733, 14970), (736, 14982), (739, 15000), (749, 15042), (751, 15048), (758, 15069), (770, 15141), (814, 15354), (825, 15402), (826, 15435), (828, 15438), (841, 15495), (847, 15525), (850, 15531), (853, 15546), (858, 15600), (866, 15651), (895, 15852), (899, 15870), (904, 15903), (913, 15963), (923, 16008), (925, 16014), (931, 16068), (937, 16113), (947, 16212),

Gene: MkaliMitinis3_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for MkaliMitinis3_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (330, 12977),

(342, 13025), (378, 13238), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (728, 14693), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (897, 15626), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Molivier_16 Start: 10862, Stop: 15991, Start Num: 17
Candidate Starts for Molivier_16:
(Start: 17 @10862 has 104 MA's), (21, 10892), (Start: 22 @10898 has 1 MA's), (23, 10901), (29, 10964), (33, 11009), (34, 11012), (51, 11129), (56, 11156), (60, 11180), (62, 11186), (66, 11210), (72, 11231), (73, 11234), (74, 11237), (97, 11384), (102, 11447), (108, 11492), (109, 11495), (111, 11513), (114, 11555), (130, 11681), (135, 11708), (139, 11744), (140, 11765), (147, 11831), (153, 11849), (157, 11894), (162, 11930), (173, 12050), (176, 12074), (188, 12149), (189, 12152), (190, 12173), (191, 12176), (192, 12200), (195, 12242), (199, 12275), (213, 12446), (217, 12476), (223, 12506), (241, 12602), (243, 12611), (249, 12635), (252, 12644), (257, 12665), (273, 12731), (281, 12761), (283, 12770), (288, 12785), (291, 12797), (299, 12845), (305, 12869), (316, 12905), (330, 12983), (342, 13031), (394, 13307), (419, 13394), (422, 13415), (448, 13556), (451, 13568), (471, 13661), (475, 13691), (477, 13697), (488, 13778), (495, 13814), (503, 13874), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839), (934, 15869), (937, 15884), (947, 15983),

Gene: Moostard_17 Start: 10972, Stop: 16404, Start Num: 17
Candidate Starts for Moostard_17:
(Start: 17 @10972 has 104 MA's), (21, 11002), (23, 11011), (32, 11092), (33, 11119), (34, 11122), (45, 11221), (58, 11317), (62, 11332), (66, 11356), (73, 11380), (74, 11383), (78, 11395), (97, 11530), (102, 11593), (108, 11638), (109, 11641), (125, 11785), (133, 11848), (140, 11911), (153, 11995), (160, 12061), (182, 12250), (188, 12295), (189, 12298), (199, 12421), (200, 12430), (208, 12538), (209, 12547), (224, 12655), (225, 12658), (230, 12688), (231, 12706), (233, 12712), (237, 12733), (242, 12751), (255, 12802), (269, 12862), (271, 12880), (279, 12904), (299, 12997), (305, 13021), (312, 13042), (316, 13057), (321, 13078), (329, 13123), (333, 13138), (352, 13213), (376, 13351), (387, 13396), (420, 13522), (423, 13537), (430, 13561), (432, 13567), (434, 13573), (443, 13621), (473, 13777), (477, 13804), (479, 13831), (488, 13879), (494, 13912), (495, 13915), (503, 13972), (535, 14110), (537, 14113), (585, 14332), (593, 14350), (595, 14359), (610, 14434), (624, 14482), (626, 14509), (629, 14527), (661, 14683), (671, 14740), (677, 14776), (680, 14785), (684, 14821), (699, 14899), (701, 14920), (717, 15004), (721, 15031), (730, 15073), (731, 15079), (733, 15088), (740, 15133), (743, 15142), (752, 15187), (754, 15199), (793, 15424), (813, 15508), (826, 15610), (839, 15658), (841, 15670), (847, 15700), (850, 15706), (853, 15721), (858, 15775), (889, 16003), (895, 16036), (899, 16054), (903, 16072), (904, 16087), (913, 16147), (923, 16192), (931, 16252), (937, 16297), (939, 16300), (947, 16396),

Gene: MosMoris_46 Start: 20069, Stop: 25618, Start Num: 1
Candidate Starts for MosMoris_46:
(Start: 1 @20069 has 18 MA's), (Start: 2 @20111 has 2 MA's), (3, 20255), (4, 20273), (5, 20285), (7, 20438), (15, 20597), (Start: 16 @20609 has 1 MA's), (20, 20642), (30, 20723), (31, 20726), (35,

20771), (37, 20792), (39, 20819), (43, 20861), (48, 20903), (57, 20963), (63, 20987), (70, 21023), (71, 21026), (89, 21107), (91, 21155), (96, 21185), (114, 21365), (115, 21368), (122, 21416), (130, 21491), (137, 21539), (143, 21635), (146, 21653), (148, 21671), (152, 21683), (157, 21731), (161, 21755), (162, 21767), (164, 21788), (173, 21887), (181, 21935), (185, 21968), (190, 22010), (195, 22079), (201, 22148), (204, 22157), (205, 22160), (214, 22280), (216, 22292), (221, 22322), (230, 22367), (232, 22388), (240, 22424), (250, 22451), (257, 22478), (258, 22481), (260, 22490), (274, 22547), (313, 22676), (336, 22790), (344, 22811), (353, 22853), (366, 22913), (402, 23108), (407, 23123), (409, 23132), (413, 23156), (416, 23168), (418, 23171), (421, 23186), (429, 23219), (445, 23291), (446, 23297), (463, 23384), (469, 23420), (477, 23468), (479, 23495), (501, 23609), (504, 23642), (518, 23687), (537, 23738), (557, 23786), (560, 23795), (566, 23816), (591, 23897), (599, 23939), (617, 24017), (618, 24020), (634, 24086), (642, 24137), (663, 24206), (692, 24362), (698, 24401), (719, 24503), (723, 24515), (762, 24668), (764, 24671), (785, 24782), (790, 24800), (794, 24830), (805, 24872), (811, 24911), (820, 24962), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: MrMagoo_30 Start: 15195, Stop: 22001, Start Num: 17
Candidate Starts for MrMagoo_30:
(Start: 17 @15195 has 104 MA's), (28, 15285), (36, 15345), (40, 15387), (80, 15627), (87, 15657), (93, 15729), (100, 15795), (107, 15846), (108, 15858), (110, 15867), (120, 15954), (123, 15987), (128, 16029), (130, 16047), (161, 16278), (169, 16344), (180, 16455), (188, 16509), (197, 16617), (200, 16644), (214, 16821), (219, 16851), (223, 16872), (232, 16938), (234, 16944), (239, 16968), (245, 16995), (246, 16998), (256, 17037), (259, 17055), (295, 17214), (310, 17289), (324, 17343), (343, 17451), (388, 17739), (394, 17769), (397, 17784), (412, 17844), (433, 17940), (442, 17988), (450, 18066), (458, 18093), (460, 18105), (482, 18270), (483, 18282), (491, 18321), (496, 18348), (512, 18447), (513, 18477), (515, 18486), (540, 18591), (547, 18612), (584, 18795), (633, 19026), (635, 19029), (640, 19092), (658, 19167), (660, 19182), (710, 19467), (734, 19563), (760, 19686), (774, 19758), (777, 19770), (789, 19848), (804, 19935), (829, 20130), (830, 20142), (843, 20205), (865, 20373), (868, 20385), (882, 20457), (884, 20466), (953, 21054), (958, 21144), (963, 21237), (965, 21267), (971, 21339), (978, 21468), (983, 21549), (991, 21663), (992, 21675), (1004, 21783), (1007, 21798), (1014, 21879), (1024, 21975),

Gene: MsGreen_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for MsGreen_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Nairb_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for Nairb_17:

(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Nanosmite_30 Start: 15409, Stop: 21873, Start Num: 17
Candidate Starts for Nanosmite_30:
(Start: 17 @15409 has 104 MA's), (19, 15424), (28, 15499), (36, 15559), (41, 15607), (59, 15754), (100, 16009), (107, 16060), (122, 16186), (130, 16261), (131, 16264), (141, 16345), (145, 16390), (153, 16429), (163, 16519), (175, 16645), (205, 16918), (214, 17041), (287, 17371), (307, 17410), (369, 17683), (393, 17791), (442, 17911), (461, 17989), (506, 18238), (546, 18394), (554, 18418), (556, 18427), (600, 18631), (632, 18799), (636, 18817), (649, 18901), (657, 18937), (662, 18964), (711, 19240), (727, 19306), (728, 19309), (742, 19390), (776, 19558), (782, 19591), (791, 19645), (802, 19699), (835, 19936), (867, 20149), (868, 20155), (874, 20182), (882, 20218), (920, 20497), (922, 20509), (933, 20617), (935, 20626), (938, 20638), (941, 20665), (956, 20929), (978, 21322), (979, 21340), (984, 21424), (986, 21442), (989, 21502), (992, 21532), (995, 21553), (997, 21559), (1002, 21643), (1006, 21664), (1014, 21748), (1015, 21757), (1016, 21760), (1020, 21826), (1021, 21829), (1024, 21847),

Gene: Nette_17 Start: 11910, Stop: 15836, Start Num: 76
Candidate Starts for Nette_17:
(Start: 76 @11910 has 1 MA's), (98, 12060), (112, 12201), (126, 12300), (148, 12507), (157, 12561), (162, 12597), (180, 12762), (183, 12786), (265, 13308), (331, 13503), (379, 13695), (425, 13797), (438, 13848), (459, 13920), (474, 14001), (497, 14118), (509, 14184), (532, 14241), (685, 14640), (705, 14757), (747, 14910), (756, 14937), (763, 14967), (783, 15054), (832, 15282), (861, 15438), (870, 15492), (900, 15687), (908, 15741),

Gene: Netyap_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Netyap_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Nicholas_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for Nicholas_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153,

11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: Nicholasp3_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for Nicholasp3_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: OhShagHennessy_16 Start: 10810, Stop: 15741, Start Num: 17
Candidate Starts for OhShagHennessy_16:
(Start: 17 @10810 has 104 MA's), (21, 10840), (Start: 22 @10846 has 1 MA's), (23, 10849), (33, 10957), (41, 11017), (44, 11038), (47, 11074), (52, 11101), (53, 11104), (56, 11125), (57, 11134), (60, 11149), (65, 11176), (69, 11185), (71, 11197), (73, 11203), (79, 11227), (82, 11239), (85, 11251), (86, 11254), (88, 11269), (90, 11311), (95, 11338), (97, 11353), (108, 11461), (117, 11545), (125, 11608), (130, 11650), (133, 11671), (140, 11734), (151, 11812), (157, 11863), (165, 11932), (178, 12055), (180, 12064), (183, 12088), (184, 12097), (188, 12118), (189, 12121), (195, 12211), (205, 12301), (207, 12322), (218, 12448), (223, 12475), (224, 12478), (225, 12481), (229, 12508), (232, 12532), (235, 12541), (237, 12556), (252, 12613), (257, 12634), (261, 12646), (282, 12736), (283, 12739), (299, 12814), (319, 12886), (321, 12895), (332, 12964), (342, 12997), (360, 13066), (365, 13084), (386, 13237), (395, 13285), (396, 13288), (403, 13309), (409, 13330), (414, 13354), (415, 13378), (422, 13405), (424, 13411), (434, 13444), (435, 13447), (443, 13489), (473, 13639), (479, 13690), (480, 13693), (487, 13735), (488, 13738), (491, 13756), (495, 13774), (511, 13870), (523, 13882), (525, 13885), (541, 13930), (592, 14035), (596, 14053), (615, 14122), (619, 14137), (626, 14173), (630, 14191), (637, 14221), (664, 14332), (675, 14392), (679, 14407), (686, 14449), (688, 14452), (713, 14572), (745, 14698), (746, 14701), (757, 14734), (765, 14770), (770, 14803), (771, 14806), (775, 14821), (778, 14833), (809, 14959), (826, 15082), (836, 15115), (839, 15130), (844, 15136),

(867, 15163), (875, 15205), (907, 15457), (923, 15535), (925, 15541), (931, 15589), (932, 15592), (937, 15634), (939, 15637), (947, 15733),

Gene: OverPar_16 Start: 10888, Stop: 16017, Start Num: 17
Candidate Starts for OverPar_16:
(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (330, 13009), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: PYPDinur_16 Start: 10512, Stop: 15602, Start Num: 17
Candidate Starts for PYPDinur_16:
(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470, 13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: PegLeg_26 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for PegLeg_26:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431,

17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: Poise_48 Start: 20207, Stop: 25756, Start Num: 1
Candidate Starts for Poise_48:
(Start: 1 @20207 has 18 MA's), (Start: 2 @20249 has 2 MA's), (3, 20393), (4, 20411), (5, 20423), (7, 20576), (15, 20735), (Start: 16 @20747 has 1 MA's), (20, 20780), (30, 20861), (31, 20864), (35, 20909), (37, 20930), (39, 20957), (43, 20999), (48, 21041), (57, 21101), (63, 21125), (70, 21161), (71, 21164), (89, 21245), (91, 21293), (96, 21323), (114, 21503), (115, 21506), (122, 21554), (130, 21629), (137, 21677), (143, 21773), (146, 21791), (148, 21809), (152, 21821), (157, 21869), (161, 21893), (162, 21905), (164, 21926), (173, 22025), (181, 22073), (185, 22106), (190, 22148), (195, 22217), (201, 22286), (204, 22295), (205, 22298), (214, 22418), (216, 22430), (221, 22460), (230, 22505), (232, 22526), (240, 22562), (250, 22589), (257, 22616), (258, 22619), (260, 22628), (274, 22685), (296, 22757), (313, 22814), (336, 22928), (344, 22949), (353, 22991), (366, 23051), (402, 23246), (407, 23261), (409, 23270), (413, 23294), (416, 23306), (418, 23309), (421, 23324), (429, 23357), (446, 23435), (463, 23522), (469, 23558), (477, 23606), (479, 23633), (501, 23747), (504, 23780), (518, 23825), (537, 23876), (557, 23924), (560, 23933), (566, 23954), (591, 24035), (599, 24077), (617, 24155), (618, 24158), (634, 24224), (642, 24275), (663, 24344), (692, 24500), (698, 24539), (719, 24641), (723, 24653), (762, 24806), (764, 24809), (785, 24920), (790, 24938), (794, 24968), (805, 25010), (811, 25049), (820, 25100), (859, 25310), (870, 25388), (885, 25466), (890, 25544), (915, 25694), (917, 25700),

Gene: Poochiewood_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Poochiewood_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (142, 11769), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Pringar_48 Start: 20522, Stop: 26044, Start Num: 1
Candidate Starts for Pringar_48:
(Start: 1 @20522 has 18 MA's), (Start: 2 @20564 has 2 MA's), (3, 20708), (5, 20738), (7, 20891), (15, 21050), (Start: 16 @21062 has 1 MA's), (20, 21095), (30, 21176), (31, 21179), (35, 21224), (37,

21245), (39, 21272), (43, 21314), (48, 21356), (57, 21416), (63, 21440), (70, 21476), (71, 21479), (89, 21560), (91, 21608), (96, 21638), (105, 21734), (114, 21818), (115, 21821), (122, 21869), (130, 21944), (137, 21992), (143, 22088), (146, 22106), (148, 22124), (152, 22136), (157, 22184), (161, 22208), (162, 22220), (164, 22241), (173, 22340), (181, 22388), (185, 22421), (190, 22463), (195, 22532), (201, 22601), (204, 22610), (205, 22613), (214, 22733), (216, 22745), (221, 22775), (230, 22820), (232, 22841), (240, 22877), (250, 22904), (257, 22931), (258, 22934), (260, 22943), (274, 23000), (336, 23243), (344, 23264), (353, 23306), (366, 23366), (402, 23561), (407, 23576), (409, 23585), (413, 23609), (416, 23621), (418, 23624), (421, 23639), (429, 23672), (446, 23750), (463, 23837), (469, 23873), (477, 23921), (479, 23948), (501, 24062), (504, 24095), (518, 24140), (537, 24191), (560, 24248), (566, 24269), (591, 24350), (599, 24392), (617, 24470), (618, 24473), (625, 24494), (634, 24539), (642, 24590), (673, 24722), (692, 24818), (698, 24857), (719, 24959), (723, 24971), (762, 25124), (764, 25127), (785, 25238), (790, 25256), (805, 25328), (816, 25394), (837, 25490), (844, 25517), (859, 25598), (870, 25676), (885, 25754), (890, 25832), (915, 25982), (917, 25988),

Gene: Quby_16 Start: 10511, Stop: 15610, Start Num: 17
Candidate Starts for Quby_16:
(Start: 17 @10511 has 104 MA's), (21, 10541), (23, 10550), (33, 10658), (38, 10688), (47, 10790), (51, 10814), (61, 10868), (62, 10871), (66, 10895), (69, 10901), (73, 10919), (78, 10934), (82, 10955), (85, 10967), (102, 11132), (108, 11177), (131, 11369), (133, 11387), (136, 11408), (137, 11414), (140, 11450), (144, 11492), (153, 11534), (156, 11570), (157, 11579), (159, 11594), (162, 11615), (167, 11660), (179, 11774), (188, 11834), (194, 11918), (199, 11960), (205, 12017), (210, 12092), (217, 12161), (223, 12191), (229, 12224), (237, 12272), (248, 12317), (249, 12320), (254, 12338), (272, 12419), (278, 12440), (279, 12443), (283, 12461), (299, 12536), (305, 12560), (316, 12596), (328, 12665), (339, 12710), (342, 12719), (349, 12752), (357, 12779), (363, 12803), (366, 12830), (367, 12839), (422, 13115), (437, 13169), (441, 13193), (449, 13259), (453, 13271), (456, 13280), (468, 13334), (470, 13346), (473, 13358), (477, 13385), (485, 13451), (486, 13454), (488, 13463), (495, 13499), (502, 13532), (503, 13559), (508, 13586), (509, 13589), (583, 13742), (586, 13763), (623, 13895), (630, 13946), (645, 14009), (665, 14060), (667, 14084), (678, 14129), (682, 14162), (703, 14261), (708, 14273), (733, 14375), (736, 14387), (751, 14453), (754, 14459), (755, 14462), (770, 14546), (780, 14585), (781, 14591), (787, 14624), (822, 14795), (833, 14864), (836, 14876), (841, 14903), (842, 14906), (875, 15074), (876, 15083), (879, 15089), (889, 15206), (899, 15257), (903, 15275), (904, 15290), (916, 15365), (919, 15380), (923, 15398), (925, 15404), (931, 15458), (932, 15461), (937, 15503), (947, 15602),

Gene: Raela_48 Start: 20762, Stop: 26311, Start Num: 1
Candidate Starts for Raela_48:
(Start: 1 @20762 has 18 MA's), (Start: 2 @20804 has 2 MA's), (3, 20948), (4, 20966), (5, 20978), (7, 21131), (15, 21290), (Start: 16 @21302 has 1 MA's), (20, 21335), (30, 21416), (31, 21419), (35, 21464), (37, 21485), (39, 21512), (43, 21554), (48, 21596), (57, 21656), (63, 21680), (70, 21716), (71, 21719), (75, 21731), (89, 21800), (91, 21848), (96, 21878), (114, 22058), (115, 22061), (122, 22109), (130, 22184), (137, 22232), (143, 22328), (146, 22346), (148, 22364), (152, 22376), (157, 22424), (161, 22448), (162, 22460), (164, 22481), (173, 22580), (181, 22628), (185, 22661), (190, 22703), (195, 22772), (201, 22841), (204, 22850), (205, 22853), (214, 22973), (216, 22985), (221, 23015), (230, 23060), (232, 23081), (240, 23117), (250, 23144), (257, 23171), (258, 23174), (260, 23183), (274, 23240), (313, 23369), (336, 23483), (344, 23504), (353, 23546), (366, 23606), (402, 23801), (407, 23816), (409, 23825), (413, 23849), (416, 23861), (418, 23864), (421, 23879), (429, 23912), (445, 23984), (446, 23990), (463, 24077), (469, 24113), (477, 24161), (479, 24188), (501, 24302), (504, 24335), (518, 24380), (537, 24431), (557, 24479), (560, 24488), (566, 24509), (591, 24590), (599, 24632), (617, 24710), (618, 24713), (634, 24779), (642, 24830), (663, 24899), (692, 25055), (698, 25094), (719, 25196), (723, 25208), (762, 25361), (764, 25364), (785, 25475), (790, 25493), (794, 25523), (805, 25565), (811, 25604), (820, 25655), (859, 25865), (870, 25943), (885, 26021), (890, 26099), (915, 26249), (917, 26255),

Gene: Red305_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for Red305_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847, 15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: RedRaider77_48 Start: 20663, Stop: 26212, Start Num: 1
Candidate Starts for RedRaider77_48:
(Start: 1 @20663 has 18 MA's), (Start: 2 @20705 has 2 MA's), (3, 20849), (4, 20867), (5, 20879), (7, 21032), (15, 21191), (Start: 16 @21203 has 1 MA's), (20, 21236), (30, 21317), (31, 21320), (35, 21365), (37, 21386), (39, 21413), (43, 21455), (48, 21497), (57, 21557), (63, 21581), (70, 21617), (71, 21620), (89, 21701), (91, 21749), (96, 21779), (114, 21959), (115, 21962), (122, 22010), (130, 22085), (137, 22133), (143, 22229), (146, 22247), (148, 22265), (152, 22277), (157, 22325), (161, 22349), (162, 22361), (164, 22382), (173, 22481), (181, 22529), (185, 22562), (190, 22604), (195, 22673), (201, 22742), (204, 22751), (205, 22754), (214, 22874), (216, 22886), (221, 22916), (230, 22961), (232, 22982), (240, 23018), (250, 23045), (257, 23072), (258, 23075), (260, 23084), (274, 23141), (313, 23270), (336, 23384), (344, 23405), (353, 23447), (366, 23507), (402, 23702), (407, 23717), (409, 23726), (413, 23750), (416, 23762), (418, 23765), (421, 23780), (429, 23813), (446, 23891), (463, 23978), (469, 24014), (477, 24062), (479, 24089), (501, 24203), (504, 24236), (518, 24281), (537, 24332), (557, 24380), (560, 24389), (566, 24410), (591, 24491), (599, 24533), (617, 24611), (618, 24614), (634, 24680), (642, 24731), (692, 24956), (698, 24995), (719, 25097), (723, 25109), (762, 25262), (764, 25265), (785, 25376), (790, 25394), (794, 25424), (805, 25466), (811, 25505), (820, 25556), (859, 25766), (870, 25844), (885, 25922), (890, 26000), (915, 26150), (917, 26156),

Gene: Reindeer_24 Start: 14476, Stop: 21279, Start Num: 17
Candidate Starts for Reindeer_24:
(Start: 17 @14476 has 104 MA's), (19, 14491), (28, 14566), (32, 14587), (36, 14626), (41, 14674), (59, 14821), (72, 14878), (Start: 76 @14893 has 1 MA's), (80, 14908), (84, 14926), (86, 14932), (108, 15139), (110, 15148), (113, 15193), (117, 15223), (119, 15229), (122, 15253), (124, 15277), (128, 15310), (130, 15328), (131, 15331), (141, 15412), (142, 15421), (151, 15490), (159, 15556), (163, 15586), (171, 15658), (175, 15712), (179, 15736), (180, 15742), (198, 15913), (200, 15931), (206, 15994), (211, 16078), (214, 16108), (227, 16183), (234, 16231), (236, 16237), (238, 16252), (239, 16255), (289, 16459), (295, 16489), (307, 16543), (309, 16552), (314, 16567), (325, 16612), (337, 16690), (345, 16714), (346, 16717), (350, 16741), (358, 16768), (373, 16879), (400, 17020), (409, 17053), (442, 17215), (450, 17290), (460, 17329), (464, 17362), (466, 17371), (490, 17539), (498, 17581), (510, 17668), (512, 17671), (515, 17710), (536, 17776), (540, 17806), (548, 17836), (550, 17839), (556, 17857), (577, 17950), (584, 18013), (598, 18067), (604, 18100), (605, 18103), (633, 18253), (647, 18331), (655, 18361), (690, 18553), (701, 18625), (742, 18835), (779, 19021), (782,

19042), (784, 19069), (795, 19126), (798, 19144), (799, 19153), (807, 19210), (808, 19222), (817, 19285), (832, 19384), (835, 19393), (838, 19414), (851, 19480), (861, 19558), (863, 19576), (874, 19648), (917, 19945), (918, 19954), (922, 19972), (931, 20035), (933, 20080), (948, 20248), (956, 20392), (966, 20587), (969, 20605), (972, 20635), (973, 20647), (980, 20773), (984, 20827), (985, 20830), (986, 20845), (987, 20872), (990, 20914), (998, 20989), (1002, 21049), (1007, 21073), (1010, 21115), (1015, 21163), (1016, 21166), (1018, 21175), (1020, 21232), (1024, 21253),

Gene: Rey_30 Start: 15430, Stop: 22233, Start Num: 17
Candidate Starts for Rey_30:
(Start: 17 @15430 has 104 MA's), (28, 15520), (36, 15580), (40, 15622), (80, 15862), (87, 15892), (100, 16030), (107, 16081), (108, 16093), (110, 16102), (120, 16189), (128, 16264), (130, 16282), (159, 16504), (161, 16513), (169, 16579), (171, 16606), (175, 16660), (176, 16669), (180, 16690), (200, 16879), (214, 17056), (219, 17086), (234, 17179), (235, 17182), (245, 17230), (259, 17290), (310, 17524), (324, 17578), (361, 17758), (363, 17773), (409, 18061), (439, 18217), (442, 18226), (450, 18304), (458, 18331), (483, 18520), (491, 18559), (540, 18829), (547, 18850), (567, 18928), (584, 19033), (588, 19048), (594, 19063), (635, 19267), (640, 19330), (658, 19405), (720, 19747), (734, 19810), (760, 19933), (767, 19972), (782, 20029), (789, 20077), (804, 20164), (829, 20359), (843, 20434), (865, 20602), (868, 20614), (882, 20686), (884, 20695), (918, 20965), (953, 21289), (971, 21574), (978, 21703), (987, 21847), (991, 21898), (992, 21910), (1007, 22033), (1012, 22102), (1014, 22114), (1024, 22210),

Gene: RonRayGun_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for RonRayGun_17:
(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Rose5_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Rose5_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: RoseMarie_26 Start: 14865, Stop: 21674, Start Num: 17
Candidate Starts for RoseMarie_26:

(Start: 17 @14865 has 104 MA's), (19, 14880), (28, 14955), (32, 14976), (36, 15015), (41, 15063), (51, 15165), (72, 15267), (80, 15297), (86, 15321), (108, 15528), (110, 15537), (119, 15618), (122, 15642), (124, 15666), (128, 15699), (130, 15717), (131, 15720), (141, 15801), (151, 15879), (162, 15966), (163, 15975), (175, 16101), (180, 16131), (198, 16302), (200, 16320), (214, 16497), (239, 16644), (294, 16875), (295, 16878), (307, 16932), (309, 16941), (314, 16956), (318, 16971), (320, 16980), (326, 17007), (337, 17085), (345, 17109), (358, 17163), (362, 17181), (373, 17283), (383, 17355), (409, 17457), (442, 17622), (450, 17697), (460, 17736), (464, 17769), (490, 17946), (498, 17988), (505, 18042), (510, 18075), (512, 18078), (520, 18129), (528, 18150), (547, 18228), (556, 18258), (574, 18333), (584, 18414), (598, 18468), (613, 18549), (633, 18654), (647, 18732), (655, 18762), (694, 18981), (701, 19026), (727, 19152), (728, 19155), (738, 19206), (742, 19236), (770, 19380), (779, 19419), (782, 19440), (784, 19467), (798, 19545), (799, 19554), (804, 19578), (807, 19611), (808, 19623), (817, 19686), (821, 19713), (832, 19785), (835, 19794), (838, 19815), (851, 19881), (867, 20007), (874, 20049), (884, 20091), (917, 20349), (918, 20358), (922, 20376), (931, 20439), (956, 20796), (967, 20988), (972, 21033), (973, 21045), (978, 21153), (981, 21174), (984, 21222), (986, 21240), (996, 21354), (998, 21384), (1002, 21444), (1007, 21468), (1015, 21558), (1016, 21561), (1018, 21570), (1020, 21627), (1024, 21648),

Gene: Rossetti_16 Start: 10855, Stop: 16005, Start Num: 17
Candidate Starts for Rossetti_16:
(Start: 17 @10855 has 104 MA's), (29, 10957), (33, 11002), (42, 11080), (44, 11083), (55, 11161), (66, 11224), (69, 11230), (72, 11245), (78, 11263), (92, 11359), (102, 11461), (108, 11506), (109, 11509), (114, 11569), (125, 11653), (130, 11695), (133, 11716), (139, 11758), (140, 11779), (149, 11851), (153, 11863), (157, 11908), (162, 11944), (169, 11998), (170, 12022), (188, 12163), (189, 12166), (190, 12187), (194, 12247), (199, 12289), (213, 12460), (223, 12520), (225, 12526), (237, 12601), (244, 12628), (257, 12679), (273, 12745), (276, 12751), (281, 12775), (285, 12793), (291, 12811), (299, 12859), (305, 12883), (316, 12919), (342, 13045), (389, 13300), (394, 13321), (419, 13408), (422, 13429), (451, 13582), (471, 13675), (477, 13711), (488, 13792), (495, 13828), (537, 13987), (549, 14017), (582, 14074), (583, 14077), (586, 14092), (597, 14128), (623, 14224), (626, 14257), (630, 14275), (638, 14314), (647, 14347), (656, 14389), (667, 14440), (674, 14467), (676, 14476), (678, 14485), (682, 14518), (683, 14521), (720, 14689), (728, 14713), (733, 14743), (736, 14755), (739, 14773), (750, 14818), (751, 14821), (770, 14914), (822, 15163), (824, 15166), (834, 15235), (841, 15271), (846, 15298), (848, 15304), (852, 15313), (883, 15505), (889, 15604), (895, 15637), (897, 15646), (901, 15667), (923, 15799), (925, 15805), (931, 15853), (932, 15856), (937, 15898), (947, 15997),

Gene: Rumpelstiltskin_16 Start: 10856, Stop: 15991, Start Num: 17
Candidate Starts for Rumpelstiltskin_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839),

(934, 15869), (937, 15884), (947, 15983),

Gene: Samty_17 Start: 10972, Stop: 16404, Start Num: 17
Candidate Starts for Samty_17:
(Start: 17 @10972 has 104 MA's), (21, 11002), (23, 11011), (32, 11092), (33, 11119), (34, 11122), (45, 11221), (58, 11317), (62, 11332), (66, 11356), (73, 11380), (74, 11383), (78, 11395), (97, 11530), (102, 11593), (108, 11638), (109, 11641), (125, 11785), (133, 11848), (140, 11911), (153, 11995), (160, 12061), (182, 12250), (188, 12295), (189, 12298), (199, 12421), (200, 12430), (208, 12538), (209, 12547), (224, 12655), (225, 12658), (230, 12688), (231, 12706), (233, 12712), (237, 12733), (242, 12751), (255, 12802), (269, 12862), (271, 12880), (279, 12904), (299, 12997), (305, 13021), (312, 13042), (316, 13057), (321, 13078), (329, 13123), (333, 13138), (352, 13213), (376, 13351), (387, 13396), (420, 13522), (423, 13537), (430, 13561), (432, 13567), (434, 13573), (443, 13621), (473, 13777), (477, 13804), (479, 13831), (488, 13879), (494, 13912), (495, 13915), (503, 13972), (535, 14110), (537, 14113), (585, 14332), (593, 14350), (595, 14359), (610, 14434), (624, 14482), (626, 14509), (629, 14527), (661, 14683), (671, 14740), (677, 14776), (680, 14785), (684, 14821), (699, 14899), (701, 14920), (717, 15004), (721, 15031), (730, 15073), (731, 15079), (733, 15088), (740, 15133), (743, 15142), (752, 15187), (754, 15199), (793, 15424), (813, 15508), (826, 15610), (839, 15658), (841, 15670), (847, 15700), (850, 15706), (853, 15721), (858, 15775), (889, 16003), (895, 16036), (899, 16054), (903, 16072), (904, 16087), (913, 16147), (923, 16192), (931, 16252), (937, 16297), (939, 16300), (947, 16396),

Gene: Sarshaun_16 Start: 10889, Stop: 16018, Start Num: 17
Candidate Starts for Sarshaun_16:
(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394, 13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Sheng711_16 Start: 10512, Stop: 15602, Start Num: 17
Candidate Starts for Sheng711_16:
(Start: 17 @10512 has 104 MA's), (21, 10542), (23, 10551), (33, 10659), (38, 10689), (47, 10791), (51, 10815), (61, 10869), (62, 10872), (66, 10896), (69, 10902), (73, 10920), (74, 10923), (78, 10935), (82, 10956), (102, 11133), (108, 11178), (125, 11325), (131, 11370), (133, 11388), (136, 11409), (137, 11415), (140, 11451), (144, 11493), (149, 11523), (153, 11535), (156, 11571), (157, 11580), (159, 11595), (162, 11616), (167, 11661), (184, 11814), (194, 11919), (199, 11961), (204, 12015), (205, 12018), (210, 12093), (212, 12129), (217, 12162), (223, 12192), (225, 12198), (233, 12252), (237, 12273), (242, 12291), (247, 12315), (248, 12318), (249, 12321), (254, 12339), (267, 12390), (269, 12402), (270, 12408), (272, 12420), (278, 12441), (279, 12444), (282, 12459), (283, 12462), (299, 12537), (305, 12561), (316, 12597), (328, 12666), (339, 12711), (342, 12720), (349, 12753), (356, 12777), (357, 12780), (363, 12804), (366, 12831), (367, 12840), (374, 12894), (391, 12990), (422, 13116), (437, 13170), (441, 13194), (449, 13260), (453, 13272), (456, 13281), (468, 13335), (470,

13347), (473, 13359), (477, 13386), (485, 13452), (486, 13455), (488, 13464), (495, 13500), (501, 13530), (508, 13572), (509, 13575), (583, 13734), (586, 13755), (623, 13887), (630, 13938), (638, 13977), (645, 14001), (654, 14025), (665, 14052), (667, 14076), (678, 14121), (703, 14253), (708, 14265), (733, 14367), (736, 14379), (751, 14445), (754, 14451), (755, 14454), (770, 14538), (780, 14577), (781, 14583), (822, 14787), (833, 14856), (836, 14868), (841, 14895), (842, 14898), (875, 15066), (876, 15075), (879, 15081), (889, 15198), (899, 15249), (903, 15267), (904, 15282), (916, 15357), (919, 15372), (923, 15390), (925, 15396), (931, 15450), (932, 15453), (937, 15495), (947, 15594),

Gene: Silverleaf_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Silverleaf_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Skinny_27 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for Skinny_27:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: SlimJimmy_25 Start: 14622, Stop: 21443, Start Num: 17
Candidate Starts for SlimJimmy_25:
(Start: 17 @14622 has 104 MA's), (19, 14637), (28, 14712), (32, 14733), (36, 14772), (41, 14820), (51, 14922), (86, 15078), (100, 15222), (108, 15285), (110, 15294), (119, 15375), (122, 15399), (124, 15423), (128, 15456), (130, 15474), (131, 15477), (141, 15558), (143, 15591), (163, 15732), (175, 15858), (198, 16059), (200, 16077), (211, 16224), (214, 16254), (234, 16377), (294, 16632), (295,

16635), (301, 16668), (303, 16671), (307, 16689), (309, 16698), (314, 16713), (318, 16728), (320, 16737), (326, 16764), (337, 16842), (358, 16923), (373, 17043), (400, 17184), (409, 17217), (431, 17316), (442, 17382), (450, 17457), (464, 17529), (490, 17706), (498, 17748), (510, 17835), (512, 17838), (520, 17889), (547, 17994), (552, 18012), (556, 18024), (572, 18096), (577, 18117), (598, 18234), (605, 18270), (613, 18315), (633, 18420), (647, 18498), (651, 18513), (706, 18825), (727, 18921), (736, 18969), (742, 19005), (748, 19038), (760, 19083), (762, 19101), (779, 19188), (782, 19209), (784, 19236), (817, 19458), (832, 19557), (835, 19566), (838, 19587), (849, 19641), (851, 19653), (874, 19821), (884, 19866), (917, 20124), (935, 20268), (936, 20277), (972, 20805), (978, 20922), (984, 20991), (986, 21009), (996, 21123), (998, 21153), (1007, 21237), (1011, 21285), (1016, 21330), (1024, 21417),

Gene: Snenia_17 Start: 10976, Stop: 16402, Start Num: 17
Candidate Starts for Snenia_17:
(Start: 17 @10976 has 104 MA's), (21, 11006), (23, 11015), (32, 11096), (33, 11123), (34, 11126), (45, 11225), (58, 11321), (62, 11336), (66, 11360), (73, 11384), (74, 11387), (78, 11399), (97, 11534), (102, 11597), (108, 11642), (109, 11645), (125, 11789), (133, 11852), (139, 11894), (140, 11915), (153, 11999), (160, 12065), (182, 12254), (188, 12299), (189, 12302), (199, 12425), (200, 12434), (208, 12542), (209, 12551), (224, 12659), (225, 12662), (230, 12692), (231, 12710), (233, 12716), (237, 12737), (242, 12755), (255, 12806), (269, 12866), (271, 12884), (279, 12908), (299, 13001), (305, 13025), (312, 13046), (316, 13061), (321, 13082), (329, 13127), (333, 13142), (352, 13217), (376, 13355), (387, 13400), (420, 13526), (423, 13541), (430, 13565), (432, 13571), (434, 13577), (443, 13625), (473, 13781), (477, 13808), (479, 13835), (488, 13883), (494, 13916), (495, 13919), (502, 13949), (503, 13976), (535, 14114), (537, 14117), (542, 14153), (585, 14330), (593, 14348), (595, 14357), (603, 14399), (610, 14429), (621, 14465), (624, 14477), (626, 14504), (629, 14522), (661, 14681), (671, 14738), (677, 14774), (680, 14783), (684, 14819), (699, 14897), (701, 14918), (717, 15002), (721, 15029), (730, 15071), (731, 15077), (733, 15086), (740, 15131), (743, 15140), (752, 15185), (754, 15197), (793, 15422), (797, 15434), (813, 15506), (826, 15608), (841, 15668), (847, 15698), (850, 15704), (853, 15719), (858, 15773), (889, 16001), (895, 16034), (899, 16052), (903, 16070), (904, 16085), (913, 16145), (923, 16190), (931, 16250), (937, 16295), (939, 16298), (947, 16394),

Gene: SoJulia_16 Start: 10855, Stop: 15984, Start Num: 17
Candidate Starts for SoJulia_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (537, 13966), (582, 14053), (583, 14056), (586, 14071), (597, 14107), (623, 14203), (630, 14254), (638, 14293), (647, 14329), (650, 14338), (656, 14371), (665, 14398), (667, 14422), (668, 14428), (674, 14449), (676, 14458), (678, 14467), (682, 14500), (683, 14503), (720, 14668), (733, 14722), (736, 14734), (739, 14752), (750, 14797), (751, 14800), (770, 14893), (822, 15142), (826, 15190), (841, 15250), (846, 15277), (848, 15283), (852, 15292), (855, 15301), (875, 15451), (883, 15484), (889, 15583), (895, 15616), (901, 15646), (923, 15778), (925, 15784), (931, 15832), (934, 15862), (937, 15877), (947, 15976),

Gene: Soap141_16 Start: 10889, Stop: 16018, Start Num: 17
Candidate Starts for Soap141_16:

(Start: 17 @10889 has 104 MA's), (21, 10919), (Start: 22 @10925 has 1 MA's), (23, 10928), (29, 10991), (33, 11036), (34, 11039), (51, 11156), (56, 11183), (60, 11207), (66, 11237), (72, 11258), (74, 11264), (97, 11411), (102, 11474), (108, 11519), (109, 11522), (111, 11540), (114, 11582), (135, 11735), (139, 11771), (140, 11792), (147, 11858), (153, 11876), (157, 11921), (162, 11957), (173, 12077), (176, 12101), (188, 12176), (189, 12179), (190, 12200), (191, 12203), (192, 12227), (195, 12269), (199, 12302), (213, 12473), (217, 12503), (223, 12533), (241, 12629), (243, 12638), (249, 12662), (252, 12671), (257, 12692), (273, 12758), (281, 12788), (283, 12797), (288, 12812), (291, 12824), (299, 12872), (305, 12896), (316, 12932), (319, 12944), (330, 13010), (342, 13058), (394, 13334), (419, 13421), (422, 13442), (448, 13583), (451, 13595), (471, 13688), (475, 13718), (477, 13724), (488, 13805), (495, 13841), (537, 14000), (582, 14087), (583, 14090), (586, 14105), (597, 14141), (623, 14237), (630, 14288), (638, 14327), (647, 14363), (650, 14372), (656, 14405), (665, 14432), (667, 14456), (668, 14462), (674, 14483), (676, 14492), (678, 14501), (682, 14534), (683, 14537), (720, 14702), (728, 14726), (733, 14756), (736, 14768), (739, 14786), (750, 14831), (751, 14834), (770, 14927), (822, 15176), (826, 15224), (841, 15284), (846, 15311), (848, 15317), (852, 15326), (855, 15335), (875, 15485), (883, 15518), (889, 15617), (895, 15650), (897, 15659), (901, 15680), (923, 15812), (925, 15818), (931, 15866), (934, 15896), (937, 15911), (947, 16010),

Gene: Sparky_14 Start: 9734, Stop: 15127, Start Num: 6
Candidate Starts for Sparky_14:
(Start: 6 @9734 has 2 MA's), (8, 9815), (9, 9824), (10, 9845), (11, 9851), (12, 9866), (13, 9875), (24, 10007), (50, 10271), (51, 10280), (54, 10295), (57, 10316), (68, 10367), (75, 10391), (83, 10430), (91, 10508), (101, 10601), (104, 10622), (117, 10730), (118, 10733), (121, 10751), (127, 10808), (129, 10832), (133, 10856), (134, 10859), (141, 10952), (146, 11003), (153, 11036), (177, 11264), (194, 11420), (196, 11441), (205, 11513), (217, 11657), (220, 11669), (222, 11681), (224, 11690), (228, 11711), (232, 11744), (246, 11804), (249, 11816), (255, 11837), (263, 11867), (269, 11891), (284, 11963), (296, 12005), (298, 12017), (302, 12035), (304, 12044), (323, 12110), (363, 12302), (375, 12389), (384, 12446), (385, 12449), (392, 12482), (409, 12548), (426, 12620), (440, 12680), (462, 12794), (467, 12824), (475, 12881), (493, 12992), (503, 13061), (525, 13121), (538, 13160), (558, 13214), (565, 13232), (575, 13265), (582, 13289), (586, 13307), (599, 13358), (601, 13367), (612, 13421), (639, 13553), (643, 13583), (666, 13673), (681, 13751), (683, 13772), (691, 13811), (693, 13820), (700, 13868), (741, 14051), (747, 14084), (755, 14108), (772, 14201), (792, 14297), (796, 14324), (805, 14363), (813, 14408), (818, 14456), (827, 14516), (842, 14582), (873, 14771), (881, 14804), (886, 14840), (888, 14897), (892, 14921), (896, 14948), (902, 14972), (910, 15032), (912, 15059), (914, 15062),

Gene: Tesla_47 Start: 20512, Stop: 26061, Start Num: 1
Candidate Starts for Tesla_47:
(Start: 1 @20512 has 18 MA's), (Start: 2 @20554 has 2 MA's), (3, 20698), (4, 20716), (5, 20728), (7, 20881), (15, 21040), (Start: 16 @21052 has 1 MA's), (20, 21085), (30, 21166), (31, 21169), (35, 21214), (37, 21235), (39, 21262), (43, 21304), (48, 21346), (57, 21406), (63, 21430), (70, 21466), (71, 21469), (89, 21550), (91, 21598), (96, 21628), (105, 21724), (114, 21808), (115, 21811), (122, 21859), (130, 21934), (137, 21982), (143, 22078), (146, 22096), (148, 22114), (152, 22126), (157, 22174), (161, 22198), (162, 22210), (164, 22231), (173, 22330), (181, 22378), (185, 22411), (190, 22453), (195, 22522), (201, 22591), (204, 22600), (205, 22603), (214, 22723), (216, 22735), (221, 22765), (230, 22810), (232, 22831), (240, 22867), (250, 22894), (257, 22921), (258, 22924), (260, 22933), (274, 22990), (313, 23119), (336, 23233), (344, 23254), (353, 23296), (366, 23356), (402, 23551), (407, 23566), (409, 23575), (413, 23599), (416, 23611), (418, 23614), (421, 23629), (429, 23662), (445, 23734), (446, 23740), (463, 23827), (469, 23863), (477, 23911), (479, 23938), (501, 24052), (504, 24085), (518, 24130), (537, 24181), (557, 24229), (560, 24238), (566, 24259), (591, 24340), (599, 24382), (617, 24460), (618, 24463), (634, 24529), (642, 24580), (663, 24649), (692, 24805), (698, 24844), (719, 24946), (723, 24958), (762, 25111), (764, 25114), (785, 25225), (790, 25243), (794, 25273), (805, 25315), (811, 25354), (820, 25405), (859, 25615), (870, 25693), (885, 25771), (890, 25849), (915, 25999), (917, 26005),

Gene: Tourach_16 Start: 10871, Stop: 15982, Start Num: 17
Candidate Starts for Tourach_16:
(Start: 17 @10871 has 104 MA's), (Start: 22 @10907 has 1 MA's), (23, 10910), (29, 10973), (33, 11018), (51, 11159), (55, 11177), (56, 11186), (60, 11210), (62, 11216), (66, 11240), (69, 11246), (72, 11261), (73, 11264), (78, 11279), (79, 11288), (84, 11309), (97, 11414), (102, 11477), (108, 11522), (109, 11525), (114, 11585), (118, 11609), (125, 11669), (130, 11711), (131, 11714), (133, 11732), (140, 11795), (147, 11861), (149, 11867), (153, 11879), (157, 11924), (162, 11960), (169, 12014), (174, 12083), (176, 12104), (178, 12116), (188, 12179), (189, 12182), (190, 12203), (199, 12305), (213, 12476), (217, 12506), (223, 12536), (225, 12542), (237, 12617), (249, 12665), (257, 12695), (273, 12761), (276, 12767), (281, 12791), (283, 12800), (291, 12827), (299, 12875), (303, 12887), (305, 12899), (316, 12935), (342, 13061), (394, 13337), (419, 13424), (422, 13445), (451, 13598), (471, 13691), (475, 13721), (477, 13727), (479, 13760), (488, 13808), (495, 13844), (503, 13904), (537, 14003), (582, 14090), (583, 14093), (586, 14114), (590, 14123), (623, 14246), (630, 14297), (638, 14336), (647, 14372), (652, 14387), (667, 14420), (674, 14447), (678, 14465), (683, 14501), (733, 14720), (736, 14732), (739, 14750), (751, 14798), (754, 14804), (770, 14891), (822, 15140), (834, 15212), (842, 15251), (846, 15275), (848, 15281), (852, 15290), (855, 15299), (883, 15482), (889, 15581), (895, 15614), (897, 15623), (901, 15644), (923, 15776), (925, 15782), (931, 15830), (934, 15860), (937, 15875), (947, 15974),

Gene: TpudiCK_27 Start: 14635, Stop: 21456, Start Num: 17
Candidate Starts for TpudiCK_27:
(Start: 17 @14635 has 104 MA's), (19, 14650), (28, 14725), (32, 14746), (36, 14785), (41, 14833), (51, 14935), (86, 15091), (100, 15235), (108, 15298), (110, 15307), (119, 15388), (122, 15412), (124, 15436), (128, 15469), (130, 15487), (131, 15490), (141, 15571), (143, 15604), (163, 15745), (175, 15871), (198, 16072), (200, 16090), (211, 16237), (214, 16267), (234, 16390), (294, 16645), (295, 16648), (301, 16681), (303, 16684), (307, 16702), (309, 16711), (314, 16726), (318, 16741), (320, 16750), (326, 16777), (337, 16855), (358, 16936), (373, 17056), (400, 17197), (409, 17230), (431, 17329), (442, 17395), (450, 17470), (464, 17542), (490, 17719), (498, 17761), (510, 17848), (512, 17851), (520, 17902), (547, 18007), (552, 18025), (556, 18037), (572, 18109), (577, 18130), (598, 18247), (605, 18283), (613, 18328), (633, 18433), (647, 18511), (651, 18526), (706, 18838), (727, 18934), (736, 18982), (742, 19018), (748, 19051), (760, 19096), (762, 19114), (779, 19201), (782, 19222), (784, 19249), (817, 19471), (832, 19570), (835, 19579), (838, 19600), (849, 19654), (851, 19666), (863, 19762), (874, 19834), (884, 19879), (917, 20137), (935, 20281), (936, 20290), (972, 20818), (978, 20935), (984, 21004), (986, 21022), (996, 21136), (998, 21166), (1007, 21250), (1011, 21298), (1016, 21343), (1024, 21430),

Gene: TriFive_17 Start: 10975, Stop: 16401, Start Num: 17
Candidate Starts for TriFive_17:
(Start: 17 @10975 has 104 MA's), (21, 11005), (23, 11014), (32, 11095), (33, 11122), (34, 11125), (45, 11224), (58, 11320), (62, 11335), (66, 11359), (73, 11383), (74, 11386), (78, 11398), (97, 11533), (102, 11596), (108, 11641), (109, 11644), (125, 11788), (133, 11851), (139, 11893), (140, 11914), (153, 11998), (160, 12064), (182, 12253), (188, 12298), (189, 12301), (199, 12424), (200, 12433), (208, 12541), (209, 12550), (224, 12658), (225, 12661), (230, 12691), (231, 12709), (233, 12715), (237, 12736), (242, 12754), (255, 12805), (269, 12865), (271, 12883), (279, 12907), (299, 13000), (305, 13024), (312, 13045), (316, 13060), (321, 13081), (329, 13126), (333, 13141), (352, 13216), (376, 13354), (387, 13399), (420, 13525), (423, 13540), (430, 13564), (432, 13570), (434, 13576), (443, 13624), (473, 13780), (477, 13807), (479, 13834), (488, 13882), (494, 13915), (495, 13918), (502, 13948), (503, 13975), (535, 14113), (537, 14116), (542, 14152), (585, 14329), (593, 14347), (595, 14356), (603, 14398), (610, 14428), (621, 14464), (624, 14476), (626, 14503), (629, 14521), (661, 14680), (671, 14737), (677, 14773), (680, 14782), (684, 14818), (699, 14896), (701, 14917), (717, 15001), (721, 15028), (730, 15070), (731, 15076), (733, 15085), (740, 15130), (743, 15139), (752, 15184), (754, 15196), (793, 15421), (797, 15433), (813, 15505), (826, 15607), (841, 15667), (847,

15697), (850, 15703), (853, 15718), (858, 15772), (889, 16000), (895, 16033), (899, 16051), (903, 16069), (904, 16084), (913, 16144), (923, 16189), (931, 16249), (937, 16294), (939, 16297), (947, 16393),

Gene: TyDawg_26 Start: 14636, Stop: 21457, Start Num: 17
Candidate Starts for TyDawg_26:
(Start: 17 @14636 has 104 MA's), (19, 14651), (28, 14726), (32, 14747), (36, 14786), (41, 14834), (51, 14936), (86, 15092), (100, 15236), (108, 15299), (110, 15308), (119, 15389), (122, 15413), (124, 15437), (128, 15470), (130, 15488), (131, 15491), (141, 15572), (143, 15605), (163, 15746), (175, 15872), (198, 16073), (200, 16091), (211, 16238), (214, 16268), (234, 16391), (294, 16646), (295, 16649), (301, 16682), (303, 16685), (307, 16703), (309, 16712), (314, 16727), (318, 16742), (320, 16751), (326, 16778), (337, 16856), (358, 16937), (373, 17057), (400, 17198), (409, 17231), (431, 17330), (442, 17396), (450, 17471), (464, 17543), (490, 17720), (498, 17762), (510, 17849), (512, 17852), (520, 17903), (547, 18008), (552, 18026), (556, 18038), (572, 18110), (577, 18131), (598, 18248), (605, 18284), (613, 18329), (633, 18434), (647, 18512), (651, 18527), (706, 18839), (727, 18935), (736, 18983), (742, 19019), (748, 19052), (760, 19097), (762, 19115), (779, 19202), (782, 19223), (784, 19250), (817, 19472), (832, 19571), (835, 19580), (838, 19601), (849, 19655), (851, 19667), (863, 19763), (874, 19835), (884, 19880), (917, 20138), (935, 20282), (936, 20291), (972, 20819), (978, 20936), (984, 21005), (986, 21023), (996, 21137), (998, 21167), (1007, 21251), (1011, 21299), (1016, 21344), (1024, 21431),

Gene: Tyson_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Tyson_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (786, 14895), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: UPIE_16 Start: 10834, Stop: 15774, Start Num: 17
Candidate Starts for UPIE_16:
(Start: 17 @10834 has 104 MA's), (21, 10864), (Start: 22 @10870 has 1 MA's), (23, 10873), (33, 10981), (41, 11041), (44, 11062), (47, 11098), (52, 11125), (53, 11128), (56, 11149), (57, 11158), (60, 11173), (62, 11179), (65, 11200), (66, 11203), (69, 11209), (71, 11221), (73, 11227), (79, 11251), (82, 11263), (85, 11275), (86, 11278), (90, 11335), (95, 11362), (97, 11377), (108, 11485), (117, 11569), (125, 11632), (130, 11674), (133, 11695), (140, 11758), (151, 11836), (157, 11887), (165, 11956), (178, 12079), (180, 12088), (183, 12112), (184, 12121), (188, 12142), (189, 12145), (195, 12235), (205, 12325), (218, 12472), (223, 12499), (224, 12502), (225, 12505), (229, 12532), (232, 12556), (235, 12565), (252, 12637), (257, 12658), (261, 12670), (282, 12760), (283, 12763), (299, 12838), (319, 12910), (321, 12919), (332, 12988), (342, 13021), (360, 13090), (365, 13108), (386, 13261),

(395, 13309), (396, 13312), (403, 13333), (409, 13354), (414, 13378), (415, 13402), (422, 13429), (424, 13435), (434, 13468), (435, 13471), (443, 13513), (473, 13663), (480, 13717), (487, 13759), (488, 13762), (491, 13780), (495, 13798), (504, 13861), (511, 13894), (523, 13906), (525, 13909), (537, 13945), (545, 13963), (587, 14050), (592, 14059), (596, 14077), (615, 14143), (616, 14152), (619, 14158), (626, 14194), (630, 14212), (637, 14242), (664, 14353), (675, 14413), (679, 14428), (686, 14470), (688, 14473), (713, 14593), (745, 14719), (746, 14722), (757, 14755), (765, 14791), (771, 14827), (775, 14842), (778, 14854), (809, 14980), (826, 15103), (836, 15136), (867, 15196), (875, 15238), (907, 15490), (923, 15568), (925, 15574), (931, 15622), (932, 15625), (937, 15667), (939, 15670), (947, 15766),

Gene: Underpass_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for Underpass_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: VasuNzinga_48 Start: 20096, Stop: 25618, Start Num: 1
Candidate Starts for VasuNzinga_48:
(Start: 1 @20096 has 18 MA's), (Start: 2 @20138 has 2 MA's), (3, 20282), (4, 20300), (5, 20312), (7, 20465), (15, 20624), (Start: 16 @20636 has 1 MA's), (20, 20669), (30, 20750), (31, 20753), (35, 20798), (37, 20819), (39, 20846), (43, 20888), (48, 20930), (57, 20990), (63, 21014), (70, 21050), (71, 21053), (89, 21134), (91, 21182), (96, 21212), (105, 21308), (114, 21392), (115, 21395), (122, 21443), (130, 21518), (137, 21566), (143, 21662), (146, 21680), (148, 21698), (152, 21710), (157, 21758), (161, 21782), (162, 21794), (164, 21815), (173, 21914), (181, 21962), (185, 21995), (190, 22037), (195, 22106), (201, 22175), (204, 22184), (205, 22187), (214, 22307), (216, 22319), (221, 22349), (230, 22394), (232, 22415), (240, 22451), (250, 22478), (257, 22505), (258, 22508), (260, 22517), (274, 22574), (336, 22817), (344, 22838), (353, 22880), (366, 22940), (402, 23135), (407, 23150), (409, 23159), (413, 23183), (416, 23195), (418, 23198), (421, 23213), (429, 23246), (446, 23324), (463, 23411), (469, 23447), (477, 23495), (479, 23522), (501, 23636), (504, 23669), (518, 23714), (537, 23765), (560, 23822), (566, 23843), (591, 23924), (599, 23966), (617, 24044), (618, 24047), (634, 24113), (642, 24164), (673, 24296), (692, 24392), (698, 24431), (719, 24533), (723, 24545), (762, 24698), (764, 24701), (785, 24812), (790, 24830), (805, 24902), (816, 24968), (837, 25064), (844, 25091), (859, 25172), (870, 25250), (885, 25328), (890, 25406), (915, 25556), (917, 25562),

Gene: Vetrix_16 Start: 10856, Stop: 15991, Start Num: 17
Candidate Starts for Vetrix_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507),

(114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (503, 13868), (537, 13973), (582, 14060), (583, 14063), (586, 14078), (597, 14114), (623, 14210), (630, 14261), (638, 14300), (647, 14336), (650, 14345), (656, 14378), (665, 14405), (667, 14429), (668, 14435), (674, 14456), (676, 14465), (678, 14474), (682, 14507), (683, 14510), (720, 14675), (728, 14699), (733, 14729), (736, 14741), (739, 14759), (750, 14804), (751, 14807), (770, 14900), (822, 15149), (826, 15197), (841, 15257), (846, 15284), (848, 15290), (852, 15299), (855, 15308), (875, 15458), (883, 15491), (889, 15590), (895, 15623), (897, 15632), (901, 15653), (923, 15785), (925, 15791), (931, 15839), (934, 15869), (937, 15884), (947, 15983),

Gene: Wamburgrxpress_16 Start: 10836, Stop: 15788, Start Num: 17
Candidate Starts for Wamburgrxpress_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (415, 13404), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911), (537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14157), (616, 14166), (619, 14172), (626, 14208), (630, 14226), (637, 14256), (664, 14367), (675, 14427), (679, 14442), (686, 14484), (688, 14487), (713, 14607), (745, 14733), (746, 14736), (757, 14769), (765, 14805), (771, 14841), (775, 14856), (778, 14868), (809, 14994), (826, 15117), (836, 15150), (867, 15210), (875, 15252), (907, 15504), (923, 15582), (925, 15588), (931, 15636), (932, 15639), (937, 15681), (939, 15684), (947, 15780),

Gene: Whirlwind_18 Start: 10963, Stop: 16158, Start Num: 17
Candidate Starts for Whirlwind_18:
(Start: 17 @10963 has 104 MA's), (21, 10993), (23, 11002), (32, 11083), (33, 11110), (34, 11113), (58, 11308), (72, 11368), (73, 11371), (74, 11374), (78, 11386), (97, 11521), (102, 11584), (108, 11629), (109, 11632), (125, 11776), (131, 11821), (140, 11902), (144, 11944), (146, 11953), (153, 11986), (157, 12031), (160, 12052), (188, 12286), (189, 12289), (199, 12412), (200, 12421), (224, 12646), (231, 12697), (233, 12703), (237, 12724), (243, 12748), (267, 12841), (277, 12889), (279, 12895), (282, 12910), (297, 12970), (299, 12988), (312, 13033), (316, 13048), (329, 13114), (342, 13159), (376, 13330), (380, 13351), (387, 13375), (422, 13513), (434, 13552), (443, 13600), (457, 13678), (465, 13726), (473, 13756), (477, 13783), (492, 13885), (502, 13933), (507, 13987), (526, 14065), (539, 14131), (602, 14374), (653, 14563), (674, 14623), (676, 14632), (678, 14641), (708, 14800), (717, 14830), (718, 14836), (724, 14854), (726, 14860), (733, 14896), (736, 14908), (739, 14926), (749, 14968), (751, 14974), (758, 14995), (770, 15067), (814, 15280), (825, 15328), (826, 15361), (828, 15364), (841, 15421), (850, 15457), (853, 15472), (858, 15526), (870, 15601), (874, 15622), (879, 15640), (895, 15790), (899, 15808), (903, 15826), (904, 15841), (913, 15901), (923, 15946), (925, 15952), (937, 16051), (947, 16150),

Gene: Whitty_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for Whitty_17:
(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056), (489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: Wigglewiggle_16 Start: 10888, Stop: 16017, Start Num: 17
Candidate Starts for Wigglewiggle_16:
(Start: 17 @10888 has 104 MA's), (21, 10918), (Start: 22 @10924 has 1 MA's), (23, 10927), (29, 10990), (33, 11035), (34, 11038), (51, 11155), (56, 11182), (60, 11206), (62, 11212), (66, 11236), (72, 11257), (73, 11260), (74, 11263), (97, 11410), (102, 11473), (108, 11518), (109, 11521), (111, 11539), (114, 11581), (130, 11707), (135, 11734), (139, 11770), (140, 11791), (142, 11800), (147, 11857), (153, 11875), (157, 11920), (162, 11956), (173, 12076), (176, 12100), (188, 12175), (189, 12178), (190, 12199), (191, 12202), (192, 12226), (195, 12268), (199, 12301), (213, 12472), (217, 12502), (223, 12532), (241, 12628), (243, 12637), (249, 12661), (252, 12670), (257, 12691), (273, 12757), (281, 12787), (283, 12796), (288, 12811), (291, 12823), (299, 12871), (305, 12895), (316, 12931), (319, 12943), (342, 13057), (394, 13333), (419, 13420), (422, 13441), (448, 13582), (451, 13594), (471, 13687), (475, 13717), (477, 13723), (488, 13804), (495, 13840), (537, 13999), (582, 14086), (583, 14089), (586, 14104), (597, 14140), (623, 14236), (630, 14287), (638, 14326), (647, 14362), (650, 14371), (656, 14404), (665, 14431), (667, 14455), (668, 14461), (670, 14470), (674, 14482), (676, 14491), (678, 14500), (682, 14533), (683, 14536), (720, 14701), (728, 14725), (733, 14755), (736, 14767), (739, 14785), (750, 14830), (751, 14833), (770, 14926), (822, 15175), (826, 15223), (841, 15283), (846, 15310), (848, 15316), (852, 15325), (855, 15334), (875, 15484), (883, 15517), (889, 15616), (895, 15649), (897, 15658), (901, 15679), (923, 15811), (925, 15817), (931, 15865), (934, 15895), (937, 15910), (947, 16009),

Gene: Wildcat_38 Start: 17708, Stop: 23659, Start Num: 17
Candidate Starts for Wildcat_38:
(14, 17684), (Start: 17 @17708 has 104 MA's), (26, 17777), (27, 17789), (51, 17990), (55, 18008), (67, 18074), (81, 18137), (85, 18152), (86, 18155), (90, 18224), (102, 18329), (104, 18341), (106, 18356), (108, 18374), (116, 18452), (117, 18458), (121, 18479), (125, 18521), (131, 18566), (132, 18575), (133, 18584), (136, 18605), (138, 18626), (142, 18671), (144, 18704), (147, 18728), (150, 18737), (154, 18758), (163, 18836), (171, 18908), (172, 18917), (174, 18950), (186, 19031), (187, 19034), (200, 19175), (202, 19220), (208, 19289), (214, 19352), (220, 19385), (224, 19406), (228, 19436), (230, 19448), (231, 19466), (232, 19469), (237, 19493), (245, 19526), (262, 19586), (264, 19592), (266, 19604), (268, 19616), (275, 19646), (293, 19700), (299, 19721), (307, 19751), (313, 19763), (322, 19787), (324, 19793), (334, 19847), (337, 19859), (348, 19901), (351, 19916), (359, 19934), (364, 19952), (370, 20006), (372, 20015), (398, 20132), (399, 20135), (406, 20159), (454, 20324), (455, 20327), (460, 20339), (481, 20480), (494, 20549), (517, 20675), (531, 20717), (544, 20771), (546, 20774), (550, 20789), (562, 20825), (573, 20879), (579, 20909), (580, 20924), (584, 20957), (604, 21029), (608, 21053), (620, 21092), (628, 21128), (644, 21203), (708, 21503), (729, 21596), (735, 21623), (759, 21731), (761, 21752), (766, 21770), (773, 21809), (801, 21938), (803, 21950), (805, 21953), (819, 22040), (823, 22049), (831, 22094), (840, 22136), (845, 22160), (849, 22178), (854, 22193), (868, 22304), (870, 22316), (878, 22340), (893, 22433), (894, 22436), (899, 22451), (905, 22487), (906, 22496), (909, 22508), (928, 22592), (929, 22598), (930, 22601), (933, 22628), (940, 22664), (942, 22685), (943, 22688), (944, 22721), (949, 22754), (950, 22778), (951, 22799), (952, 22814), (954, 22829), (955, 22838), (961, 22904), (968, 23027), (974, 23072), (975, 23093), (977, 23138), (982, 23168), (988, 23279), (999, 23393), (1003, 23444), (1005, 23453), (1009, 23498), (1015, 23540), (1017, 23546), (1019, 23558), (1022, 23612), (1023, 23615),

Gene: Wilder_16 Start: 10855, Stop: 15990, Start Num: 17
Candidate Starts for Wilder_16:
(Start: 17 @10855 has 104 MA's), (21, 10885), (Start: 22 @10891 has 1 MA's), (23, 10894), (29, 10957), (33, 11002), (34, 11005), (51, 11122), (56, 11149), (60, 11173), (62, 11179), (66, 11203), (72, 11224), (73, 11227), (74, 11230), (97, 11377), (102, 11440), (108, 11485), (109, 11488), (111, 11506), (114, 11548), (130, 11674), (135, 11701), (139, 11737), (140, 11758), (142, 11767), (147, 11824), (153, 11842), (157, 11887), (162, 11923), (173, 12043), (176, 12067), (188, 12142), (189, 12145), (190, 12166), (191, 12169), (192, 12193), (195, 12235), (199, 12268), (213, 12439), (217, 12469), (223, 12499), (241, 12595), (243, 12604), (249, 12628), (252, 12637), (257, 12658), (273, 12724), (281, 12754), (283, 12763), (288, 12778), (291, 12790), (299, 12838), (305, 12862), (316, 12898), (319, 12910), (330, 12976), (342, 13024), (394, 13300), (419, 13387), (422, 13408), (448, 13549), (451, 13561), (471, 13654), (475, 13684), (477, 13690), (488, 13771), (495, 13807), (503, 13867), (537, 13972), (582, 14059), (583, 14062), (586, 14077), (597, 14113), (623, 14209), (630, 14260), (638, 14299), (647, 14335), (650, 14344), (656, 14377), (665, 14404), (667, 14428), (668, 14434), (674, 14455), (676, 14464), (678, 14473), (682, 14506), (683, 14509), (720, 14674), (728, 14698), (733, 14728), (736, 14740), (739, 14758), (750, 14803), (751, 14806), (770, 14899), (822, 15148), (826, 15196), (841, 15256), (846, 15283), (848, 15289), (852, 15298), (855, 15307), (875, 15457), (883, 15490), (889, 15589), (895, 15622), (897, 15631), (901, 15652), (923, 15784), (925, 15790), (931, 15838), (934, 15868), (937, 15883), (947, 15982),

Gene: Winky_16 Start: 10856, Stop: 15985, Start Num: 17
Candidate Starts for Winky_16:
(Start: 17 @10856 has 104 MA's), (21, 10886), (Start: 22 @10892 has 1 MA's), (23, 10895), (29, 10958), (33, 11003), (34, 11006), (51, 11123), (56, 11150), (60, 11174), (62, 11180), (66, 11204), (72, 11225), (73, 11228), (74, 11231), (97, 11378), (102, 11441), (108, 11486), (109, 11489), (111, 11507), (114, 11549), (130, 11675), (135, 11702), (139, 11738), (140, 11759), (142, 11768), (147, 11825), (153, 11843), (157, 11888), (162, 11924), (173, 12044), (176, 12068), (188, 12143), (189, 12146), (190, 12167), (191, 12170), (192, 12194), (195, 12236), (199, 12269), (213, 12440), (217, 12470), (223, 12500), (241, 12596), (243, 12605), (249, 12629), (252, 12638), (257, 12659), (273, 12725), (281, 12755), (283, 12764), (288, 12779), (291, 12791), (299, 12839), (305, 12863), (316, 12899), (319, 12911), (342, 13025), (394, 13301), (419, 13388), (422, 13409), (448, 13550), (451, 13562), (471, 13655), (475, 13685), (477, 13691), (488, 13772), (495, 13808), (537, 13967), (582, 14054), (583, 14057), (586, 14072), (597, 14108), (623, 14204), (630, 14255), (638, 14294), (647, 14330), (650, 14339), (656, 14372), (665, 14399), (667, 14423), (668, 14429), (674, 14450), (676, 14459), (678, 14468), (682, 14501), (683, 14504), (720, 14669), (733, 14723), (736, 14735), (739, 14753), (750, 14798), (751, 14801), (770, 14894), (822, 15143), (826, 15191), (841, 15251), (846, 15278), (848, 15284), (852, 15293), (855, 15302), (875, 15452), (883, 15485), (889, 15584), (895, 15617), (901, 15647), (923, 15779), (925, 15785), (931, 15833), (934, 15863), (937, 15878), (947, 15977),

Gene: Wyatt2_16 Start: 10836, Stop: 15776, Start Num: 17
Candidate Starts for Wyatt2_16:
(Start: 17 @10836 has 104 MA's), (21, 10866), (Start: 22 @10872 has 1 MA's), (23, 10875), (33, 10983), (41, 11043), (44, 11064), (47, 11100), (52, 11127), (53, 11130), (56, 11151), (57, 11160), (60, 11175), (62, 11181), (65, 11202), (66, 11205), (69, 11211), (71, 11223), (73, 11229), (79, 11253), (82, 11265), (85, 11277), (86, 11280), (90, 11337), (95, 11364), (97, 11379), (108, 11487), (117, 11571), (125, 11634), (130, 11676), (133, 11697), (140, 11760), (151, 11838), (157, 11889), (165, 11958), (178, 12081), (180, 12090), (183, 12114), (184, 12123), (188, 12144), (189, 12147), (195, 12237), (205, 12327), (218, 12474), (223, 12501), (224, 12504), (225, 12507), (229, 12534), (232, 12558), (235, 12567), (252, 12639), (257, 12660), (261, 12672), (282, 12762), (283, 12765), (299, 12840), (319, 12912), (321, 12921), (332, 12990), (342, 13023), (360, 13092), (365, 13110), (386, 13263), (395, 13311), (396, 13314), (403, 13335), (409, 13356), (414, 13380), (422, 13431), (424, 13437), (434, 13470), (435, 13473), (442, 13506), (443, 13515), (473, 13665), (480, 13719), (487, 13761), (488, 13764), (491, 13782), (495, 13800), (504, 13863), (511, 13896), (523, 13908), (525, 13911),

(537, 13947), (545, 13965), (587, 14052), (592, 14061), (596, 14079), (615, 14145), (616, 14154), (619, 14160), (626, 14196), (630, 14214), (637, 14244), (664, 14355), (675, 14415), (679, 14430), (686, 14472), (688, 14475), (713, 14595), (745, 14721), (746, 14724), (757, 14757), (765, 14793), (771, 14829), (775, 14844), (778, 14856), (809, 14982), (826, 15105), (836, 15138), (867, 15198), (875, 15240), (907, 15492), (923, 15570), (925, 15576), (931, 15624), (932, 15627), (937, 15669), (939, 15672), (947, 15768),

Gene: Zakai_16 Start: 10844, Stop: 15979, Start Num: 17
Candidate Starts for Zakai_16:
(Start: 17 @10844 has 104 MA's), (21, 10874), (Start: 22 @10880 has 1 MA's), (23, 10883), (29, 10946), (33, 10991), (34, 10994), (51, 11111), (56, 11138), (60, 11162), (62, 11168), (66, 11192), (72, 11213), (73, 11216), (74, 11219), (97, 11366), (102, 11429), (108, 11474), (109, 11477), (111, 11495), (114, 11537), (130, 11663), (135, 11690), (139, 11726), (140, 11747), (142, 11756), (147, 11813), (153, 11831), (157, 11876), (162, 11912), (173, 12032), (176, 12056), (188, 12131), (189, 12134), (190, 12155), (191, 12158), (192, 12182), (195, 12224), (199, 12257), (213, 12428), (217, 12458), (223, 12488), (241, 12584), (243, 12593), (249, 12617), (252, 12626), (257, 12647), (273, 12713), (281, 12743), (283, 12752), (288, 12767), (291, 12779), (299, 12827), (305, 12851), (316, 12887), (330, 12965), (342, 13013), (394, 13289), (419, 13376), (422, 13397), (448, 13538), (451, 13550), (471, 13643), (475, 13673), (477, 13679), (488, 13760), (495, 13796), (503, 13856), (537, 13961), (582, 14048), (583, 14051), (586, 14066), (597, 14102), (623, 14198), (630, 14249), (638, 14288), (647, 14324), (650, 14333), (656, 14366), (665, 14393), (667, 14417), (668, 14423), (674, 14444), (676, 14453), (678, 14462), (682, 14495), (683, 14498), (720, 14663), (728, 14687), (733, 14717), (736, 14729), (739, 14747), (750, 14792), (751, 14795), (770, 14888), (822, 15137), (826, 15185), (841, 15245), (846, 15272), (848, 15278), (852, 15287), (855, 15296), (875, 15446), (883, 15479), (889, 15578), (895, 15611), (897, 15620), (901, 15641), (923, 15773), (925, 15779), (931, 15827), (934, 15857), (937, 15872), (947, 15971),

Gene: Zaria_16 Start: 10837, Stop: 15789, Start Num: 17
Candidate Starts for Zaria_16:
(Start: 17 @10837 has 104 MA's), (21, 10867), (Start: 22 @10873 has 1 MA's), (23, 10876), (33, 10984), (41, 11044), (44, 11065), (47, 11101), (52, 11128), (53, 11131), (56, 11152), (57, 11161), (60, 11176), (65, 11203), (69, 11212), (71, 11224), (73, 11230), (79, 11254), (82, 11266), (85, 11278), (86, 11281), (88, 11296), (90, 11338), (95, 11365), (97, 11380), (108, 11488), (117, 11572), (125, 11635), (130, 11677), (133, 11698), (140, 11761), (151, 11839), (157, 11890), (165, 11959), (178, 12082), (180, 12091), (183, 12115), (184, 12124), (188, 12145), (189, 12148), (195, 12238), (199, 12271), (205, 12328), (218, 12475), (223, 12502), (224, 12505), (225, 12508), (229, 12535), (232, 12559), (235, 12568), (252, 12640), (257, 12661), (261, 12673), (282, 12763), (283, 12766), (299, 12841), (319, 12913), (321, 12922), (332, 12991), (342, 13024), (360, 13093), (365, 13111), (386, 13264), (395, 13312), (396, 13315), (403, 13336), (409, 13357), (414, 13381), (415, 13405), (422, 13432), (424, 13438), (434, 13471), (435, 13474), (442, 13507), (443, 13516), (473, 13666), (480, 13720), (487, 13762), (488, 13765), (491, 13783), (495, 13801), (504, 13864), (511, 13897), (523, 13909), (525, 13912), (537, 13948), (545, 13966), (587, 14053), (592, 14062), (596, 14080), (615, 14158), (616, 14167), (619, 14173), (626, 14209), (630, 14227), (637, 14257), (664, 14368), (675, 14428), (679, 14443), (686, 14485), (688, 14488), (713, 14608), (745, 14734), (746, 14737), (757, 14770), (765, 14806), (771, 14842), (775, 14857), (778, 14869), (786, 14908), (809, 14995), (826, 15118), (836, 15151), (867, 15211), (875, 15253), (907, 15505), (923, 15583), (925, 15589), (931, 15637), (932, 15640), (937, 15682), (939, 15685), (947, 15781),

Gene: ZenTime222_17 Start: 11932, Stop: 16017, Start Num: 77
Candidate Starts for ZenTime222_17:
(46, 11794), (Start: 77 @11932 has 6 MA's), (98, 12082), (108, 12175), (112, 12223), (126, 12322), (148, 12529), (155, 12562), (157, 12583), (162, 12619), (183, 12808), (184, 12817), (217, 13156), (317, 13471), (331, 13525), (346, 13567), (355, 13603), (425, 13819), (459, 13942), (478, 14056),

(489, 14104), (509, 14206), (582, 14392), (618, 14518), (646, 14638), (672, 14746), (696, 14875), (705, 14932), (707, 14935), (756, 15112), (763, 15142), (783, 15229), (803, 15310), (805, 15313), (857, 15583), (860, 15607), (892, 15829), (900, 15868), (908, 15922),

Gene: ZhongYanYuan_15 Start: 10786, Stop: 15810, Start Num: 29
Candidate Starts for ZhongYanYuan_15:
(Start: 17 @10684 has 104 MA's), (18, 10696), (Start: 22 @10720 has 1 MA's), (23, 10723), (29, 10786), (33, 10831), (51, 10972), (55, 10990), (56, 10999), (62, 11029), (66, 11053), (69, 11059), (72, 11074), (73, 11077), (78, 11092), (79, 11101), (84, 11122), (92, 11188), (97, 11227), (102, 11290), (108, 11335), (109, 11338), (114, 11398), (118, 11422), (125, 11482), (130, 11524), (133, 11545), (140, 11608), (144, 11650), (147, 11674), (151, 11686), (153, 11692), (157, 11737), (162, 11773), (176, 11917), (178, 11929), (188, 11992), (189, 11995), (190, 12016), (199, 12118), (213, 12289), (217, 12319), (223, 12349), (225, 12355), (257, 12508), (273, 12574), (276, 12580), (280, 12598), (281, 12604), (291, 12640), (299, 12688), (300, 12691), (305, 12712), (308, 12721), (316, 12748), (319, 12760), (330, 12826), (342, 12874), (368, 13003), (394, 13150), (419, 13237), (422, 13258), (448, 13399), (451, 13411), (471, 13504), (477, 13540), (488, 13621), (495, 13657), (503, 13717), (508, 13744), (509, 13747), (511, 13753), (516, 13765), (549, 13846), (555, 13861), (561, 13879), (586, 13939), (623, 14071), (638, 14161), (647, 14197), (652, 14212), (668, 14251), (674, 14272), (678, 14290), (682, 14323), (683, 14326), (722, 14503), (733, 14545), (736, 14557), (739, 14575), (751, 14623), (754, 14629), (770, 14716), (822, 14965), (834, 15037), (846, 15100), (848, 15106), (852, 15115), (855, 15124), (883, 15310), (889, 15409), (895, 15442), (897, 15451), (901, 15472), (923, 15604), (925, 15610), (931, 15658), (934, 15688), (937, 15703), (947, 15802),