(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 October 2010 (28.10.2010)

PCT

(10) International Publication Number
WO 2010/124101 A2

(51) **International Patent Classification**:
C12Q 1/68 (2006.01) ***C40B 40/08*** (2006.01)
C12N 15/12 (2006.01)

(21) **International Application Number**:
PCT/US2010/032067

(22) **International Filing Date**:
22 April 2010 (22.04.2010)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
61/171,717 22 April 2009 (22.04.2009) US
61/245,808 25 September 2009 (25.09.2009) US

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(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

— *with sequence listing part of description (Rule 5.2(a))*

WO 2010/124101 A2

(54) **Title**: GENETIC MARKERS ASSOCIATED WITH ENDOMETRIOSIS AND USE THEREOF

(57) **Abstract**: The present invention relates to novel genetic markers associated with endometriosis and risk of developing endometriosis, and methods and materials for determining whether a human subject has endometriosis or is at risk of developing endometriosis and the use of such risk information in selectively administering a treatment that at least partially prevents or compensates for an endometriosis related symptom.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INTERNATIONAL APPLICATION

FOR

GENETIC MARKERS ASSOCIATED WITH ENDOMETRIOSIS AND USE THEREOF

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April 22, 2010

Docket No. JBL-0014

GENETIC MARKERS ASSOCIATED WITH ENDOMETRIOSIS AND USE THEREOF

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This nonprovisional utility patent application claims the benefit under 35 U.S.C. § 119(e) of U.S. provisional application No. 61/171,717, filed April 22, 2009 and U.S. provisional application No. 61/245,808, filed September 25, 2009, and claims the benefit under 35 U.S.C. § 120 to co-pending U.S. application No. 12/056,754 filed March 27, 2008, which claims the benefit under 35 U.S.C. § 119(e) of U.S. Provisional Patent Application No. 60/943,193, filed June 11, 2007, all of which are incorporated herein in their entirety by this reference.

FIELD OF THE INVENTION

[0002] The present invention relates to endometriosis diagnosis and therapy. In particular, the present invention relates to specific single nucleotide polymorphisms (SNPs) in the human genome, and their association with endometriosis and related pathologies.

BACKGROUND OF THE INVENTION

[0003] Endometriosis in one instance refers to autoimmune endometriosis, mild endometriosis, moderate endometriosis or severe endometriosis. For the purpose of this invention the term endometriosis is used to describe any of these conditions.

[0004] Endometriosis is most generally defined as the presence of endometrium (glands and stroma) at sites outside of the uterus (ectopic endometrial tissues rather than eutopic or within the uterus). The most common sites are the ovaries, pelvic peritoneum, uterosacral ligaments, pouch of Douglas, and rectovaginal septum although implants have been identified on the peritoneal surfaces of the abdomen (these may grow into the intestines, ureters or bladder), in the thorax, at the umbilicus, and at incision sites of prior surgeries (Child TJ, Tan SL (2001) Endometriosis: aetiology, pathogenesis and treatment. Drugs 61:1735-1750; Giudice et al. (1998) Status of current research on endometriosis. The Journal of reproductive medicine 43:252-262).

[0005] Endometriosis is a common gynecologic disorder. The prevalence is difficult to know. It has been estimated that it affects approximately 14% of all women (range 1-43%), 40-60% of women with pelvic pain and 30%-50% of infertile women (Di

Blasio et al. (2005) Genetics of endometriosis. Minerva ginecologica 57:225-236; Schindler AE (2004) Pathophysiology, diagnosis and treatment of endometriosis. Minerva ginecologica 56:419-435).

[0006] Studies of the inheritance of endometriosis have been hampered by methodological problems related to disease definition and control selection. General population incidence during the 1970s in this country has been suggested to be 1.6 per 1000 white females aged 15-49, while a more current study based upon hospital discharges finds endometriosis as a first listed diagnosis in 1.3 per 1000 discharges in women aged 15-44. There is a clinical impression that blacks have lower rates of endometriosis and Orientals have higher rates than whites. Separate work has suggested a polygenic/multifactorial inheritance (Vigano P, Somigliana E, Vignali M, Busacca M, Blasio AM (2007) Genetics of endometriosis: current status and prospects. Front Biosci 12:3247-3255). Affected sib-pair studies have also performed (Kennedy et al. (2001) Affected sib-pair analysis in endometriosis. Human reproduction update 7:411-418; Treloar et al. (2005) Genomewide linkage study in 1,176 affected sister pair families identifies a significant susceptibility locus for endometriosis on chromosome 10q26. Am J Hum Genet 77:365-376).

[0007] Specific genes with polymorphisms have been investigated for an association with endometriosis. Some association studies implicated GALT (a gene involved in galactose metabolism), and GSTM1 and NAT2 (genes encoding for the detoxification enzymes) as possible disease susceptibility genes. Recent findings have added to the evidence for the involvement of GSTM1 and NAT2, but have cast doubt on the role of GALT. The CDKN1A gene codon 31 arginine/serine polymorphism is not associated with endometriosis.

[0008] Polymorphisms of the arylhydrocarbon receptor (AHR) gene and related genes were examined, and in at least one study, no association was found. However, the design of many genetic and epidemiological studies has been inadequate with respect to sample size, consistency in phenotype definition, and the choice of control populations. To identify genomic changes involved in the development of endometriosis (Gogusevet al. (1999). "Detection of DNA copy number changes in human endometriosis by comparative genomic hybridization." Hum Genet 105(5): 444-51) examined endometriotic tissues by comparative genomic hybridization and detected losses of 1p and 22q in 50% of the cases. Additional common losses included 7p (22%). Dual-color FISH using probes for the deleted regions on chromosomes 1, 7, and 22 supported the

CGH data. Treloar et al. (Treloar et al. (2005). "Genomewide linkage study in 1,176 affected sister pair families identifies a significant susceptibility locus for endometriosis on chromosome 10q26." Am J Hum Genet 77(3): 365-76) conducted a linkage study of 1,176 families (931 Australian and 245 from the U.K.), each with at least 2 affected family members, usually affected sister pairs, with surgically diagnosed disease. They identified a region of significant linkage on 10q26 (maximum lod score = 3.09; genomewide P = 0.047) and another region of suggestive linkage on 20p13; minor peaks were found on 8 other chromosomes.

[0009] Endometriosis is a genetically inherited disease. Genetic variation in DNA sequences is often associated with heritable phenotypes, such as an individual's propensity towards complex disorders. Single nucleotide polymorphisms are the most common form of genetic sequence variations. Detection and analysis of specific genetic mutations, such as single nucleotide polymorphisms (SNPs), which are associated with endometriosis risk, may therefore be used to determine risk of endometriosis, the presence of endometriosis or the progression of endometriosis. Genetic markers that are prognostic for endometriosis can be genotyped early in life and could predict individual response to various risk factors and treatment. Genetic predisposition revealed by genetic analysis of susceptibility genes can provide an integrated assessment of the interaction between genotypes and environmental factors, resulting in synergistically increased prognostic value of diagnostic tests. Thus, pre-symptomatic and early symptomatic genetic testing is expected to be the cornerstone of the paradigmatic shift from late surgical interventions to earlier preventative therapies.

[0010] Thus, there is an urgent need for novel genetic markers that are predictive of endometriosis and endometriosis progression, particularly in treatment decisions for individuals who are recognized as having endometriosis. Such genetic markers may enable prognosis of endometriosis in much larger populations compared with the populations which can currently be evaluated by using existing risk factors and biomarkers. The availability of a genetic test may allow, for example, early diagnosis and prognosis of endometriosis, as well as early clinical intervention to mitigate progression of the disease. The use of these genetic markers will also allow selection of subjects for clinical trials involving novel treatment methods. The discovery of genetic markers associated with endometriosis will further provide novel targets for therapeutic intervention or preventive treatments of endometriosis and enable the development of new therapeutic agents for treating endometriosis.

SUMMARY OF THE INVENTION

[0011] The present invention relates to the identification of novel SNPs, unique combinations of such SNPs, and haplotypes of SNPs that are associated with endometriosis and related pathologies. The polymorphisms disclosed herein are directly useful as targets for the design of diagnostic reagents and the development of therapeutic agents for use in the diagnosis and treatment of endometriosis and related pathologies.

[0012] Based on the identification of SNPs associated with endometriosis, the present invention also provides methods of detecting these variants as well as the design and preparation of detection reagents needed to accomplish this task. The invention specifically provides novel SNPs in genetic sequences involved in endometriosis, methods of detecting these SNPs in a test sample, methods of identifying individuals who have an altered risk of developing endometriosis and for suggesting treatment options for endometriosis based on the presence of a SNP(s) disclosed herein or its encoded product and methods of identifying individuals who are more or less likely to respond to a treatment.

[0013] In one embodiment of the invention, the present invention provides SNPs, as set forth in Table 1 having significant allelic association with endometriosis or by being co-located within the same LD blocks as the SNPs listed in Tables 1, and such as set forth in Tables 2-528. Tables 2-528 provide information identifying SNPs of the present invention, including SNP "rs" identification numbers (a reference SNP or RefSNP accession ID number) or "SNP-A" identification numbers (a reference SNP or RefSNP accession ID number), chromosome number, and base position number of the SNP.

[0014] In a specific embodiment of the present invention, naturally-occurring SNPs in the human genome are provided that are associated with endometriosis. Such SNPs can have a variety of uses in the diagnosis and/or treatment of endometriosis. One aspect of the present invention relates to an isolated nucleic acid molecule comprising a nucleotide sequence in which at least one nucleotide is a SNP disclosed in Table 1. In an alternative embodiment, a nucleic acid of the invention is an amplified polynucleotide, which is produced by amplification of a SNP-containing nucleic acid template.

[0015] In yet another embodiment of the invention, a reagent for detecting a SNP in the context of its naturally-occurring flanking nucleotide sequences (which can be, e.g., either DNA or mRNA) is provided. In particular, such a reagent may be in the

form of, for example, a hybridization probe or an amplification primer that is useful in the specific detection of a SNP of interest.

[0016] Also provided in the invention are kits comprising SNP detection reagents and methods for detecting the SNPs disclosed herein by employing detection reagents. In a specific embodiment, the present invention provides for a method of identifying an individual having an increased or decreased risk of developing endometriosis by detecting the presence or absence of a SNP allele disclosed herein. In another embodiment, a method for diagnosis of endometriosis by detecting the presence or absence of a SNP allele disclosed herein is provided. In yet another embodiment a method for predicting endometriosis sub-classification by detecting the presence or absence of a SNP allele disclosed herein is provided.

[0017] In yet another embodiment, the invention also provides a kit comprising SNP detection reagents, and methods for detecting the SNPs disclosed herein by employing detection reagents and a questionnaire of non-genetic clinical factors. In one embodiment, the questionnaire would be completed by a medical professional based on medical history physical exam or other clinical findings. In yet another embodiment, the questionnaire would include any other non-genetic clinical factors known to be associated with the risk of developing endometriosis.

[0018] Many other uses and advantages of the present invention will be apparent to those skilled in the art upon review of the detailed description of the preferred embodiments herein. Solely for clarity of discussion, the invention is described in the sections below by way of non-limiting examples.

DETAILED DESCRIPTION OF THE INVENTION

[0019] Definitions

[0020] The term "haplotype" means a combination of genotypes on the same chromosome occurring in a linkage disequilibrium block. Haplotypes serve as markers for linkage disequilibrium blocks, and at the same time provide information about the arrangement of genotypes within the blocks. Typing of only certain SNPs which serve as tags can, therefore, with a high level of precision reveal all genotypes for SNPs located within a block. Thus, the use of haplotypes greatly facilitates identification of candidate genes associated with diseases and drug sensitivity.

[0021] The term "linkage disequilibrium" or "LD" means that a particular combination of alleles (alternative nucleotides) or genetic markers at two or more

different SNP sites within a given chromosomal region are non-randomly co-inherited, meaning that the combination of alleles at the different SNP sites occurs more or less frequently in a population than the separate frequencies of occurrence of each allele or the frequency of a random formation of haplotypes from alleles in a given population. "LD" differs from "linkage," which describes the association of two or more loci on a chromosome with limited recombination between them. LD is also used to refer to any non-random genetic association between allele(s) at two or more different SNP sites. Therefore, when a SNP is in LD with other SNPs, the particular allele of the first SNP often predicts which alleles will be present in those SNPs in LD. LD is generally due to the physical proximity of the two loci along a chromosome. Hence, genotyping one of the SNP sites will give almost the same information as genotyping the other SNP site that is in LD. LD is caused by fitness interactions between genes or by such non-adaptive processes as population structure, inbreeding, and stochastic effects.

[0022] Various degrees of LD can be encountered between two or more SNPs with the result being that some SNPs are more closely associated (i.e., in stronger LD) than others. Furthermore, the physical distance over which LD extends along a chromosome differs between different regions of the genome, and therefore the degree of physical separation between two or more SNP sites necessary for LD to occur can differ between different regions of the genome. The average LD block size in Caucasians has been estimated to 16.3 kb occasionally extending across several hundred kb. LD blocks may also vary in size between ethnic groups (The International HapMap Consortium. A haplotype map of the human genome. Nature. Oct 27 2005;437(7063):1299-1320). Conservatively, LD can be defined as SNPs that have a D prime value of 1 and a LOD score greater than 2.0 or an r-squared value greater than 0.8.

[0023] "Linkage disequilibrium block" or "LD block" means a region of the genome that contains multiple SNPs located in proximity to each other and that are transmitted as a block.

[0024] "D prime" or "D'" (also referred to as the "linkage disequilibrium measure" or "linkage disequilibrium parameter") means the deviation of the observed allele frequencies from the expected, and is a statistical measure of how well a biometric system can discriminate between different individuals. The larger the D' value, the better a biometric system is at discriminating between individuals.

[0025] "LOD score" is the "logarithm of the odd" score, which is a statistical estimate of whether two genetic loci are physically near enough to each other (or

"linked") on a particular chromosome that they are likely to be inherited together. A LOD score of three or more is generally considered statistically significant evidence of linkage.

[0026] "R-squared" or "r^2" (also referred to as the "correlation coefficient") is a statistical measure of the degree to which two markers are related. The nearer to 1.0 the r^2 value is, the more closely the markers are related to each other. R^2 cannot exceed 1.0. D prime and LOD scores generally follow the above definition for SNPs in LD. R^2, however, displays a more complex pattern and can vary between about 0.0003 and 1.0 in SNPs that are in LD.

[0027] The present invention provides SNPs associated with endometriosis, nucleic acid molecules containing SNPs, methods and reagents for the detection of the SNPs disclosed herein, uses of these SNPs for the development of detection reagents, and assays or kits that utilize such reagents. The SNPs disclosed herein are useful for diagnosing, screening for, and evaluating predisposition to endometriosis and progression of endometriosis. Additionally, such SNPs are useful in the determining individual subject treatment plans and design of clinical trials of devices for possible use in the treatment of endometriosis. Furthermore, such SNPs and their encoded products are useful targets for the development of therapeutic agents. Furthermore, such SNPs combined with other non-genetic clinical factors are useful for diagnosing, screening, evaluating predisposition to endometriosis, assessing risk of progression of endometriosis, determining individual subject treatment plans and design of clinical trials of devices for possible use in the treatment of endometriosis.

[0028] SNPs

[0029] As used herein, the term "SNP" refers to single nucleotide polymorphisms in DNA. SNPs are usually preceded and followed by highly conserved sequences that vary in less than 1/100 or 1/1000 members of the population. An individual may be homozygous or heterozygous for an allele at each SNP position. A SNP may, in some instances, be referred to as a "cSNP" to denote that the nucleotide sequence containing the SNP is an amino acid "coding" sequence.

[0030] A SNP may arise from a substitution of one nucleotide for another at the polymorphic site. Substitutions can be transitions or transversions. A transition is the replacement of one purine nucleotide by another purine nucleotide, or one pyrimidine by

another pyrimidine. A transversion is the replacement of a purine by a pyrimidine, or vice versa. A SNP may also be a single base insertion or deletion variant referred to as an "indel".

[0031] A synonymous codon change, or silent mutation SNP (terms such as "SNP," "polymorphism," "mutation," "mutant," "variation," and "variant" are used herein interchangeably), is one that does not result in a change of amino acid due to the degeneracy of the genetic code. A substitution that changes a codon coding for one amino acid to a codon coding for a different amino acid (i.e., a non-synonymous codon change) is referred to as a missense mutation. A nonsense mutation results in a type of non-synonymous codon change in which a stop codon is formed, thereby leading to premature termination of a polypeptide chain and a truncated protein. A read-through mutation is another type of non-synonymous codon change that causes the destruction of a stop codon, thereby resulting in an extended polypeptide product. An indel that occur in a coding DNA segment gives rise to a frameshift mutation. While SNPs can be bi-, tri-, or tetra-allelic, the vast majority of the SNPs are bi-allelic, and are thus often referred to as "bi-allelic markers," or "di-allelic markers".

[0032] As used herein, references to SNPs and SNP genotypes include individual SNPs and/or haplotypes, which are groups of SNPs that are generally inherited together. Haplotypes can have stronger correlations with diseases or other phenotypic effects compared with individual SNPs, and therefore may provide increased diagnostic accuracy in some cases.

[0033] Causative SNPs are those SNPs that produce alterations in gene expression or in the structure and/or function of a gene product, and therefore are predictive of a possible clinical phenotype. One such class includes SNPs falling within regions of genes encoding a polypeptide product, i.e. cSNPs. These SNPs may result in an alteration of the amino acid sequence of the polypeptide product (i.e., non-synonymous codon changes) and give rise to the expression of a defective or other variant protein. Furthermore, in the case of nonsense mutations, a SNP may lead to premature termination of a polypeptide product. Such variant products can result in a pathological condition, e.g., genetic endometriosis.

[0034] Causative SNPs do not necessarily have to occur in coding regions; causative SNPs can occur in, for example, any genetic region that can ultimately affect the expression, structure, and/or activity of the protein encoded by a nucleic acid. Such genetic regions include, for example, those involved in transcription, such as SNPs in

transcription factor binding domains, SNPs in promoter regions, in areas involved in transcript processing, such as SNPs at intron-exon boundaries that may cause defective splicing, or SNPs in mRNA processing signal sequences such as polyadenylation signal regions and miRNA recognition sites. Some SNPs that are not causative SNPs nevertheless are in close association with, and therefore segregate with, a disease-causing sequence. In this situation, the presence of a SNP correlates with the presence of, or predisposition to, or an increased risk in developing the endometriosis. These SNPs, although not causative, are nonetheless also useful for diagnostics, endometriosis predisposition screening, endometriosis progression risk and other uses.

[0035] Methods

[0036] An association study of a SNP and a specific disorder involves determining the presence or frequency of the SNP allele in biological samples from individuals with the disorder of interest, such as endometriosis, and comparing the information to that of controls (i.e., individuals who do not have the disorder; controls may be also referred to as "healthy" or "normal" individuals) who are preferably of similar age and race. The appropriate selection of patients and controls is important to the success of SNP association studies. Therefore, a pool of individuals with well-characterized phenotypes is extremely desirable.

[0037] A SNP may be screened in tissue samples or any biological sample obtained from an affected individual, and compared to control samples, and selected for its increased (or decreased) occurrence in a specific pathological condition, such as pathologies related to endometriosis. Once a statistically significant association is established between one or more SNP(s) and a pathological condition (or other phenotype) of interest, then the region around the SNP can optionally be thoroughly screened to identify the causative genetic locus/sequence(s) (e.g., causative SNP/mutation, gene, regulatory region, etc.) that influences the pathological condition or phenotype. Association studies may be conducted within the general population and are not limited to studies performed on related individuals in affected families (linkage studies). For diagnostic and prognostic purposes, if a particular SNP site is found to be useful for diagnosing a disease, such as endometriosis, other SNP sites which are in LD with this SNP site would also be expected to be useful for diagnosing the condition. Linkage disequilibrium is described in the human genome as blocks of SNPs along a chromosome segment that do not segregate independently (i.e., that are non-randomly co-inherited). The starting (5' end) and ending (3' end) of these blocks can vary depending

on the criteria used for linkage disequilibrium in a given database, such as the value of D' or r^2 used to determine linkage disequilibrium.

[0038] Table 1 discloses SNPs that have been shown in case-control studies to be associated with endometriosis. Table 1 specifically shows SNPs from the Affymetrix 6.0 GeneChip that all showed significant association with endometriosis and identifying information regarding each SNP in columns labeled "Name" (the NCBI reference SNP identifier, "Chr" (the Chromosome where the SNP is located; note that the chromosome numbered "23" is used interchangeably for chromosome "X"), "Position" (the basepair position on the chromosome indicated), "P-Value" (the "Trend" p-value calculated by PLINK), "OR" (the Odds Ratio for the SNP in question), "F_A" (the minor allele frequency observed in the endometriosis affected cases), "F_U" (the minor allele frequency observed in the control individuals), MA (the Minor Allele of the two allelic variants observed for the SNP), and "FlankSequence" (the DNA sequence surrounding the SNP in question). The two allelic variants observed for the SNP are indicated in square brackets in the middle of the sequence.

[0039] Tables 2-528 define the linkage disequilibrium blocks surrounding each of the SNPs identified in Table 1. The linkage disequilibrium blocks were ascertained based upon the criteria set forth by the Haploview (ver. 4.1) computer algorithm under default settings using the HapMap dataset release 22 (Barrett JC et al. "Haploview: analysis and visualization of LD and haplotype maps." Bioinformatics, vol. 21, pp 263-265, 2005). It is noted however, that there may be other SNPs located in the regions covered by the LD blocks but not specifically listed in the LD block tables herein that due to their being located in the same region as SNPs in the LD blocks, have an association with endometriosis and are likewise valuable in determining predisposition to endometriosis.

[0040] Each of Tables 2-528 is prefaced by one or more SNPs from Table 1, and includes a list of one or more SNPs that correspond to a linkage disequilibrium block, including the SNPs from Table 1, which are highlighted in bold character within the table. Occasionally, an original SNP marker may not itself be present in the Hapmap SNP list but its presence is inferred based on its chromosomal location and basepair position. Also indicated in the tables is the chromosome, physical position in basepairs, minor allele frequency and observed alleles for each SNP. On rare occasions, a SNP falls outside of a linkage disequilibrium block, in which case no LD block is presented.

[0041] The SNPs shown in Tables 1-528 may be useful individually, in combination with one of the other SNPs or in a haplotype involving one of the other SNPs in Tables 1-528. Linkage disequilibrium blocks can be determined from genomewide genetic population studies which results are accessible in private and public databases, and can be visualized or tabularized using, for example, the Haploview software (Barrett JC et al. Haploview: analysis and visualization of LD and haplotype maps. *Bioinformatics*. 2005 Jan 15). The linkage disequilibrium blocks described in Tables 1-528 were identified using Haploview version 4.1 based on the International HapMap Consortium data release 22.

[0042] In accordance with the present invention, SNPs have been identified in a study using a whole-genome case-control approach to identify single nucleotide polymorphisms that were closely associated with the development of endometriosis, as well as SNPs found to be in linkage disequilibrium with (i.e., within the same linkage disequilibrium block as) the endometriosis-associated SNPs, which can provide haplotypes (i.e., groups of SNPs that are co-inherited) to be readily inferred. Thus, the present invention provides individual SNPs associated with endometriosis, as well as combinations of SNPs and haplotypes in genetic regions associated with endometriosis, methods of detecting these polymorphisms in a test sample, methods of determining the risk of an individual of having or developing endometriosis and for clinical sub-classification of endometriosis.

[0043] The present invention also provides SNPs associated with endometriosis, as well as SNPs that were previously known in the art, but were not previously known to be associated with endometriosis. Accordingly, the present invention provides novel compositions and methods based on the SNPs disclosed herein, and also provides novel methods of using the known but previously unassociated SNPs in methods relating to endometriosis (e.g., for diagnosing endometriosis. etc.).

[0044] Particular SNP alleles of the present invention can be associated with either an increased risk of having or developing endometriosis, or a decreased risk of having or developing endometriosis. SNP alleles that are associated with a decreased risk may be referred to as "protective" alleles, and SNP alleles that are associated with an increased risk may be referred to as "susceptibility" alleles, "risk factors", or "high-risk" alleles. Thus, whereas certain SNPs can be assayed to determine whether an individual possesses a SNP allele that is indicative of an increased risk of having or developing endometriosis (i.e., a susceptibility allele), other SNPs can be assayed to determine

whether an individual possesses a SNP allele that is indicative of a decreased risk of having or developing endometriosis (i.e., a protective allele). Similarly, particular SNP alleles of the present invention can be associated with either an increased or decreased likelihood of responding to a particular treatment. The term "altered" may be used herein to encompass either of these two possibilities (e.g., an increased or a decreased risk/likelihood).

[0045] Those skilled in the art will readily recognize that nucleic acid molecules may be double-stranded molecules and that reference to a particular site on one strand refers, as well, to the corresponding site on a complementary strand. In defining a SNP position, SNP allele, or nucleotide sequence, reference to an adenine, a thymine (uridine), a cytosine, or a guanine at a particular site on one strand of a nucleic acid molecule also defines the complementary thymine (uridine), adenine, guanine, or cytosine (respectively) at the corresponding site on a complementary strand of the nucleic acid molecule. Thus, reference may be made to either strand in order to refer to a particular SNP position, SNP allele, or nucleotide sequence. Probes and primers may be designed to hybridize to either strand and SNP genotyping methods disclosed herein may generally target either strand. Throughout the specification, in identifying a SNP position, reference is generally made to the forward or "sense" strand, solely for the purpose of convenience. Since endogenous nucleic acid sequences exist in the form of a double helix (a duplex comprising two complementary nucleic acid strands), it is understood that the SNPs disclosed herein will have counterpart nucleic acid sequences and SNPs associated with the complementary "reverse" or "antisense" nucleic acid strand. Such complementary nucleic acid sequences, and the complementary SNPs present in those sequences, are also included within the scope of the present invention.

[0046] Isolated Nucleic Acid Molecules

[0047] The present invention provides isolated nucleic acid molecules that contain one or more SNPs disclosed in Tables 1-528. Table 1 provides context nucleic acid sequences. Tables 2-528 provide only rs identification numbers; however, the context sequences for such SNPs are known and disclosed in the art, and are not therefore shown in the tables. Isolated nucleic acid molecules contain one or more SNPs identified in Tables 1-528. Isolated nucleic acid molecules containing one or more SNPs disclosed in Tables 1-528 may be interchangeably referred to throughout the present text as "SNP-

containing nucleic acid molecules." The isolated nucleic acid molecules of the present invention also include probes and primers (which are described in greater detail below in the section entitled "SNP Detection Reagents"), which may be used for assaying the disclosed SNPs, and isolated full-length genes, transcripts, cDNA molecules, and fragments thereof, which may be used for such purposes as expressing an encoded protein.

[0048] As used herein, an "isolated nucleic acid molecule" generally is one that contains a SNP of the present invention or one that hybridizes to such molecule such as a nucleic acid with a complementary sequence, and is separated from most other nucleic acids present in the natural source of the nucleic acid molecule. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule containing a SNP of the present invention, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or chemical precursors or other chemicals when chemically synthesized. A nucleic acid molecule can be fused to other coding or regulatory sequences and still be considered "isolated." Nucleic acid molecules present in non-human transgenic animals, which do not naturally occur in the animal, are also considered "isolated". For example, recombinant DNA molecules contained in a vector are considered "isolated". Further examples of "isolated" DNA molecules include recombinant DNA molecules maintained in heterologous host cells, and purified (partially or substantially) DNA molecules in solution. Isolated RNA molecules include in vivo or in vitro RNA transcripts of the isolated SNP-containing DNA molecules of the present invention. Isolated nucleic acid molecules according to the present invention further include such molecules produced synthetically.

[0049] Generally, an isolated SNP-containing nucleic acid molecule comprises one or more SNP positions disclosed by the present invention with flanking nucleotide sequences on either side of the SNP positions. A flanking sequence can include nucleotide residues that are naturally associated with the SNP site and/or heterologous nucleotide sequences. The flanking sequence may be up to about 100, 60, 50, 30, 25, 20, 15, 10, 8, or 4 nucleotides (or any other length in-between) on either side of a SNP position.

[0050] For full-length genes and entire protein-coding sequences, a SNP flanking sequence can be, for example, up to, but not limited to, about 5 KB, 4 KB, 3 KB, 2 KB, 1 KB on either side of the SNP. Furthermore, in such instances, the isolated nucleic acid molecule comprises exonic sequences (including protein-coding and/or non-

coding exonic sequences), but may also include intronic sequences. Thus, any protein coding sequence may be either contiguous or separated by introns. The important point is that the nucleic acid is isolated from remote and unimportant flanking sequences and is of appropriate length such that it can be subjected to the specific manipulations or uses described herein such as recombinant protein expression, preparation of probes and primers for assaying the SNP position, and other uses specific to the SNP-containing nucleic acid sequences.

[0051] An isolated SNP-containing nucleic acid molecule can comprise, for example, a full-length gene or transcript, such as a gene isolated from genomic DNA (e.g., by cloning or PCR amplification), a cDNA molecule, or an mRNA transcript molecule. Furthermore, fragments of such full-length genes and transcripts that contain one or more SNPs disclosed herein are also encompassed by the present invention, and such fragments may be used, for example, to express any part of a protein, such as a particular functional domain or an antigenic epitope.

[0052] Thus, the present invention also encompasses fragments of the nucleic acid sequences contiguous to the SNPs disclosed in Tables 1-528, contiguous nucleotide sequence at least about 8 or more nucleotides, more preferably at least about 12 or more nucleotides, and even more preferably at least about 16 or more nucleotides. Further, a fragment could comprise at least about 18, 20, 22, 25, 30, 40, 50, 60, 100, 250 or 500 (or any other number in-between) nucleotides in length. The length of the fragment will be based on its intended use. For example, the fragment can be useful as a polynucleotide probe or primer. Such fragments can be isolated using nucleotide sequences comprising one of the SNPs in Tables 1-528 for the synthesis of a polynucleotide probe. A labeled probe can then be used, for example, to screen a cDNA library, genomic DNA library, or mRNA to isolate nucleic acid corresponding to the coding region. Further, primers can be used in amplification reactions, such as for purposes of assaying one or more SNPs sites or for cloning specific regions of a gene.

[0053] An isolated nucleic acid molecule of the present invention further encompasses a SNP-containing polynucleotide that is the product of any one of a variety of nucleic acid amplification methods, which are used to increase the copy numbers of a polynucleotide of interest in a nucleic acid sample. Such amplification methods are well known in the art, and they include but are not limited to, polymerase chain reaction (PCR) (U.S. Pat. Nos. 4,683,195; and 4,683,202; PCR Technology: Principles and Applications for DNA Amplification, ed. H. A. Erlich, Freeman Press, NY, N.Y., 1992), ligase chain

reaction (LCR) (Wu and Wallace, Genomics 4:560, 1989; Landegren et al., Science 241:1077, 1988), strand displacement amplification (SDA) (U.S. Pat. Nos. 5,270,184; and 5,422,252), transcription-mediated amplification (TMA) (U.S. Pat. No. 5,399,491), linked linear amplification (LLA) (U.S. Pat. No. 6,027,923), and the like, and isothermal amplification methods such as nucleic acid sequence based amplification (NASBA), and self-sustained sequence replication (Guatelli et al., Proc. Natl. Acad. Sci. USA 87: 1874, 1990). Based on such methodologies, a person skilled in the art can readily design primers in any suitable regions 5' and 3' to a SNP disclosed herein. Such primers may be used to amplify DNA of any length so long that it contains the SNP of interest in its sequence.

[0054] As used herein, an "amplified polynucleotide" of the invention is a SNP-containing nucleic acid molecule whose amount has been increased at least two fold by any nucleic acid amplification method performed in vitro as compared to its starting amount in a test sample. In other preferred embodiments, an amplified polynucleotide is the result of at least ten fold, fifty fold, one hundred fold, one thousand fold, or even ten thousand fold increase as compared to its starting amount in a test sample. In a typical PCR amplification, a polynucleotide of interest is often amplified at least fifty thousand fold in amount over the unamplified genomic DNA, but the precise amount of amplification needed for an assay depends on the sensitivity of the subsequent detection method used.

[0055] Generally, an amplified polynucleotide is at least about 16 nucleotides in length. More typically, an amplified polynucleotide is at least about 20 nucleotides in length. In a preferred embodiment of the invention, an amplified polynucleotide is at least about 30 nucleotides in length. In a more preferred embodiment of the invention, an amplified polynucleotide is at least about 32, 40, 45, 50, or 60 nucleotides in length. In yet another preferred embodiment of the invention, an amplified polynucleotide is at least about 100, 200, or 300 nucleotides in length. While the total length of an amplified polynucleotide of the invention can be as long as an exon, an intron or the entire gene where the SNP of interest resides, an amplified product is typically no greater than about 1,000 nucleotides in length (although certain amplification methods may generate amplified products greater than 1000 nucleotides in length). More preferably, an amplified polynucleotide is not greater than about 600 nucleotides in length. It is understood that irrespective of the length of an amplified polynucleotide, a SNP of interest may be located anywhere along its sequence.

[0056] In a specific embodiment of the invention, the amplified product is at least about 201 nucleotides in length, comprises one of the nucleotide sequences shown in Tables 1-528. Such a product may have additional sequences on its 5' end or 3' end or both. In another embodiment, the amplified product is about 101 nucleotides in length, and it contains a SNP disclosed herein. Generally, the SNP is located at the middle of the amplified product (e.g., at position 101 in an amplified product that is 201 nucleotides in length, or at position 51 in an amplified product that is 101 nucleotides in length), or within 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, or 20 nucleotides from the middle of the amplified product (however, as indicated above, the SNP of interest may be located anywhere along the length of the amplified product).

[0057] The present invention provides isolated nucleic acid molecules that comprise, consist of, or consist essentially of one or more SNPs disclosed herein, complements thereof, and SNP-containing fragments thereof.

[0058] Accordingly, the present invention provides nucleic acid molecules that consist of any of the nucleotide sequences comprising one of the SNPs shown in Tables 1-528. A nucleic acid molecule consists of a nucleotide sequence when the nucleotide sequence is the complete nucleotide sequence of the nucleic acid molecule.

[0059] The present invention further provides nucleic acid molecules that consist essentially of any of the SNPs shown in Tables 1-528. A nucleic acid molecule consists essentially of a nucleotide sequence when such a nucleotide sequence includes only one of the SNPs disclosed in Tables 1-528, and no other SNPs associated with endometriosis, although additional nucleotide sequence may be included that does not include any additional SNPs associated with endometriosis.

[0060] The present invention further provides nucleic acid molecules that comprise any of the SNPs shown in Tables 1-528. A nucleic acid molecule comprises a nucleotide sequence when the nucleotide sequence is at least part of the final nucleotide sequence of the nucleic acid molecule. In such a fashion, the nucleic acid molecule can be only the nucleotide sequence or have additional nucleotide residues, such as residues that are naturally associated with it or heterologous nucleotide sequences. Such a nucleic acid molecule can have one to a few additional nucleotides or can comprise many more additional nucleotides. A brief description of how various types of these nucleic acid molecules can be readily made and isolated are well known to those of ordinary skill in the art (Sambrook and Russell, 2000, Molecular Cloning: A Laboratory Manual, Third ed. Woodbury, NY: CSHL Press; 2001).

[0061] Isolated nucleic acid molecules can be in the form of RNA, such as mRNA, or in the form DNA, including cDNA and genomic DNA, which may be obtained, for example, by molecular cloning or produced by chemical synthetic techniques or by a combination thereof (Sambrook and Russell, 2000, Molecular Cloning: A Laboratory Manual, Third ed. Woodbury, NY: CSHL Press; 2001). Furthermore, isolated nucleic acid molecules, particularly SNP detection reagents such as probes and primers, can also be partially or completely in the form of one or more types of nucleic acid analogs, such as peptide nucleic acid (PNA) (U.S. Pat. Nos. 5,539,082; 5,527,675; 5,623,049; 5,714,331). The nucleic acid, especially DNA, can be double-stranded or single-stranded. Single-stranded nucleic acid can be the coding strand (sense strand) or the complementary non-coding strand (anti-sense strand). DNA, RNA, or PNA segments can be assembled, for example, from fragments of the human genome (in the case of DNA or RNA) or single nucleotides, short oligonucleotide linkers, or from a series of oligonucleotides, to provide a synthetic nucleic acid molecule. Nucleic acid molecules can be readily synthesized using the sequences provided herein as a reference; oligonucleotide and PNA oligomer synthesis techniques are well known in the art (see, Corey DR. Peptide nucleic acids: expanding the scope of nucleic acid recognition. Trends Biotechnol. Jun 1997;15(6):224-229 and Hyrup B, Nielsen PE. Peptide nucleic acids (PNA): synthesis, properties and potential applications. Bioorg Med Chem. Jan 1996;4(1):5-23).

[0062] The present invention encompasses nucleic acid analogs that contain modified, synthetic, or non-naturally occurring nucleotides or structural elements or other alternative/modified nucleic acid chemistries known in the art. Such nucleic acid analogs are useful, for example, as detection reagents (e.g., primers/probes) for detecting one or more SNPs identified in Tables 1-528. Furthermore, kits/systems (such as beads, arrays, etc.) that include these analogs are also encompassed by the present invention.

[0063] Additional examples of nucleic acid modifications that improve the binding properties and/or stability of a nucleic acid include the use of base analogs such as inosine, intercalators (U.S. Pat. No. 4,835,263) and the minor groove binders (U.S. Pat. No. 5,801,115). Thus, references herein to nucleic acid molecules, SNP-containing nucleic acid molecules, SNP detection reagents (e.g., probes and primers), oligonucleotides/polynucleotides include PNA oligomers and other nucleic acid analogs. Other examples of nucleic acid analogs and alternative/modified nucleic acid chemistries

known in the art are described in Beaucage et al. (Current Protocols in Nucleic Acid Chemistry. New York: John Wiley and Sons; 2007).

[0064] Further variants of the SNPs disclosed in Tables 1-528, such as naturally occurring allelic variants (as well as orthologs and paralogs) and synthetic variants produced by mutagenesis techniques, can be identified and/or produced using methods well known in the art. Such further variants can comprise a nucleotide sequence that shares at least 70-80%, 80-85%, 85-90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, or 99% sequence identity with a nucleic acid sequence contiguous to the SNPs disclosed in Tables 1-528 (or a fragment thereof) and that includes a novel SNP allele disclosed in Tables 1-528. Thus, the present invention specifically contemplates isolated nucleic acid molecule that have a certain degree of sequence variation compared with the sequences shown in Tables 1-528, but that contain a novel SNP allele disclosed herein. In other words, as long as an isolated nucleic acid molecule contains a novel SNP allele disclosed herein, other portions of the nucleic acid molecule that flank the novel SNP allele can vary to some degree from the specific genomic and context sequences surrounding the SNPs listed in Tables 1-528.

[0065] The present invention further provides non-coding fragments of the nucleic acid molecules disclosed in Tables 1-528. Preferred non-coding fragments include, but are not limited to, promoter sequences, enhancer sequences, intronic sequences, 5' untranslated regions (UTRs), 3' untranslated regions, gene modulating sequences and gene termination sequences. Such fragments are useful, for example, in controlling heterologous gene expression and in developing screens to identify gene-modulating agents.

[0066] SNP Detection Reagents

[0067] In a specific aspect of the present invention, the SNPs disclosed herein can be used for the design of SNP detection reagents. As used herein, a "SNP detection reagent" is a reagent that specifically detects a specific target SNP position disclosed herein, and that is preferably specific for a particular nucleotide (allele) of the target SNP position (i.e., the detection reagent preferably can differentiate between different alternative nucleotides at a target SNP position, thereby allowing the identity of the nucleotide present at the target SNP position to be determined). Typically, such detection reagent hybridizes to a target SNP-containing nucleic acid molecule by complementary

base-pairing in a sequence specific manner, and discriminates the target variant sequence from other nucleic acid sequences such as an art-known form in a test sample. An example of a detection reagent is a probe that hybridizes to a target nucleic acid containing one or more of the SNPs disclosed herein. In a preferred embodiment, such a probe can differentiate between nucleic acids having a particular nucleotide (allele) at a target SNP position from other nucleic acids that have a different nucleotide at the same target SNP position. In addition, a detection reagent may hybridize to a specific region 5' and/or 3' to a SNP position, particularly a region corresponding to the context sequences provided in the SNPs disclosed herein. Another example of a detection reagent is a primer which acts as an initiation point of nucleotide extension along a complementary strand of a target polynucleotide. The SNP sequence information provided herein is also useful for designing primers, e.g. allele-specific primers, to amplify (e.g., using PCR) any SNP of the present invention.

[0068] In one preferred embodiment of the invention, a SNP detection reagent is a synthetic polynucleotide molecule, such as an isolated or synthetic DNA or RNA polynucleotide probe or primer or PNA oligomer, or a combination of DNA, RNA and/or PNA that hybridizes to a segment of a target nucleic acid molecule containing a SNP identified herein. A detection reagent in the form of a polynucleotide may optionally contain modified base analogs, intercalators or minor groove binders. Multiple detection reagents such as probes may be, for example, affixed to a solid support (e.g., arrays or beads) or supplied in solution (e.g., probe/primer sets for enzymatic reactions such as PCR, RT-PCR, TaqMan assays, or primer-extension reactions) to form a SNP detection kit.

[0069] A probe or primer typically is a substantially purified oligonucleotide. Such oligonucleotide typically comprises a region of complementary nucleotide sequence that hybridizes under stringent conditions to at least about 8, 10, 12, 16, 18, 20, 22, 25, 30, 40, 50, 60, 100 (or any other number in-between) or more consecutive nucleotides in a target nucleic acid molecule. Depending on the particular assay, the consecutive nucleotides can either include the target SNP position, or be a specific region in close enough proximity 5' and/or 3' to the SNP position to carry out the desired assay.

[0070] Other preferred primer and probe sequences can readily be determined using the nucleotide sequences disclosed herein. It will be apparent to one of skill in the art that such primers and probes are directly useful as reagents for genotyping the SNPs of the present invention, and can be incorporated into any kit/system format.

[0071] In order to produce a probe or primer specific for a target SNP-containing sequence, the gene/transcript and/or context sequence surrounding the SNP of interest is typically examined using a computer algorithm which starts at the 5' or at the 3' end of the nucleotide sequence. Typical algorithms will then identify oligomers of defined length that are unique to the gene/SNP context sequence, have a GC content within a range suitable for hybridization, lack predicted secondary structure that may interfere with hybridization, and/or possess other desired characteristics or that lack other undesired characteristics.

[0072] A primer or probe of the present invention is typically at least about 8 nucleotides in length. In one embodiment of the invention, a primer or a probe is at least about 10 nucleotides in length. In a preferred embodiment, a primer or a probe is at least about 12 nucleotides in length. In a more preferred embodiment, a primer or probe is at least about 16, 17, 18, 19, 20, 21, 22, 23, 24 or 25 nucleotides in length. While the maximal length of a probe can be as long as the target sequence to be detected, depending on the type of assay in which it is employed, it is typically less than about 50, 60, 65, or 70 nucleotides in length. In the case of a primer, it is typically less than about 30 nucleotides in length. In a specific preferred embodiment of the invention, a primer or a probe is within the length of about 18 and about 28 nucleotides. However, in other embodiments, such as nucleic acid arrays and other embodiments in which probes are affixed to a substrate, the probes can be longer, such as on the order of 30-70, 75, 80, 90, 100, or more nucleotides in length (see the section below entitled "SNP Detection Kits and Systems").

[0073] For analyzing SNPs, it may be appropriate to use oligonucleotides specific for alternative SNP alleles. Such oligonucleotides which detect single nucleotide variations in target sequences may be referred to by such terms as "allele-specific oligonucleotides", "allele-specific probes", or "allele-specific primers". The design and use of allele-specific probes for analyzing polymorphisms is described in, e.g., Cotton RGH, et al., eds. Mutation Detection: A Practical Approach. New York: Oxford University Press; 1998. Harnes BD, ed. The Practical Approach Series and Saiki RK, et al. Analysis of enzymatically amplified beta-globin and HLA-DQ alpha DNA with allele-specific oligonucleotide probes. Nature. Nov 13-19 1986;324(6093):163-166.

[0074] While the design of each allele-specific primer or probe depends on variables such as the precise composition of the nucleotide sequences flanking a SNP position in a target nucleic acid molecule, and the length of the primer or probe, another

factor in the use of primers and probes is the stringency of the condition under which the hybridization between the probe or primer and the target sequence is performed. Higher stringency conditions utilize buffers with lower ionic strength and/or a higher reaction temperature, and tend to require a more perfect match between probe/primer and a target sequence in order to form a stable duplex. If the stringency is too high, however, hybridization may not occur at all. In contrast, lower stringency conditions utilize buffers with higher ionic strength and/or a lower reaction temperature, and permit the formation of stable duplexes with more mismatched bases between a probe/primer and a target sequence. By way of example and not limitation, exemplary conditions for high stringency hybridization conditions using an allele-specific probe are as follows: Prehybridization with a solution containing 5× standard saline phosphate EDTA (SSPE), 0.5% $NaDodSO_4$ (SDS) at 55°C, and incubating probe with target nucleic acid molecules in the same solution at the same temperature, followed by washing with a solution containing 2×SSPE, and 0.1% SDS at 55°C or room temperature.

[0075] Moderate stringency hybridization conditions may be used for allele-specific primer extension reactions with a solution containing, e.g., about 50 mM KCl at about 46°C. Alternatively, the reaction may be carried out at an elevated temperature such as 60°C. In another embodiment, a moderately stringent hybridization condition suitable for oligonucleotide ligation assay (OLA) reactions wherein two probes are ligated if they are completely complementary to the target sequence may utilize a solution of about 100 mM KCl at a temperature of 46°C.

[0076] In a hybridization-based assay, allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms (e.g., alternative SNP alleles/nucleotides) in the respective DNA segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant detectable difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe hybridizes to only one of the alleles or significantly more strongly to one allele. While a probe may be designed to hybridize to a target sequence that contains a SNP site such that the SNP site aligns anywhere along the sequence of the probe, the probe is preferably designed to hybridize to a segment of the target sequence such that the SNP site aligns with a central position of the probe (e.g., a position within the probe that is at least three nucleotides

from either end of the probe). This design of probe generally achieves good discrimination in hybridization between different allelic forms.

[0077] In another embodiment, a probe or primer may be designed to hybridize to a segment of target DNA such that the SNP aligns with either the 5' most end or the 3' most end of the probe or primer. In a specific preferred embodiment which is particularly suitable for use in a oligonucleotide ligation assay (U.S. Pat. No. 4,988,617), the most 3'nucleotide of the probe aligns with the SNP position in the target sequence.

[0078] Oligonucleotide probes and primers may be prepared by methods well known in the art. Chemical synthetic methods include, but are limited to, the phosphotriester method described by Narang et al. (Improved phosphotriester method for the synthesis of gene fragments. Methods Enzymol. 1979;68:90-98); the phosphodiester method described by Brown et al., (Chemical synthesis and cloning of a tyrosine tRNA gene. Methods Enzymol. 1979;68:109-151), the diethylphosphoamidate method described by Beaucage and Caruthers (Deoxynucleoside phosphoramidites—A new class of key intermediates for deoxypolynucleotide synthesis. Tetrahedron Letters. 1981;22(20):1859-1862); and the solid support method described in U.S. Pat. No. 4,458,066.

[0079] Allele-specific probes are often used in pairs (or, less commonly, in sets of 3 or 4, such as if a SNP position is known to have 3 or 4 alleles, respectively, or to assay both strands of a nucleic acid molecule for a target SNP allele), and such pairs may be identical except for a one nucleotide mismatch that represents the allelic variants at the SNP position. Commonly, one member of a pair perfectly matches a reference form of a target sequence that has a more common SNP allele (i.e., the allele that is more frequent in the target population) and the other member of the pair perfectly matches a form of the target sequence that has a less common SNP allele (i.e., the allele that is rarer in the target population). In the case of an array, multiple pairs of probes can be immobilized on the same support for simultaneous analysis of multiple different polymorphisms.

[0080] In one type of PCR-based assay, an allele-specific primer hybridizes to a region on a target nucleic acid molecule that overlaps a SNP position and only primes amplification of one allelic form to which the primer exhibits perfect complementarity (Gibbs RA, et al. Detection of single DNA base differences by competitive oligonucleotide priming. Nucleic Acids Res. Apr 11 1989;17(7):2437-2448). Typically, the primer's 3'-most nucleotide is aligned with and complementary to the SNP position of the target nucleic acid molecule. This primer is used in conjunction with a second primer that hybridizes at a distal site. Amplification proceeds from the two primers, producing a

detectable product that indicates which allelic form is present in the test sample. A control is usually performed with a second pair of primers, one of which shows a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification or substantially reduces amplification efficiency, so that either no detectable product is formed or it is formed in lower amounts or at a slower pace. The method generally works most effectively when the mismatch is at the 3'-most position of the oligonucleotide (i.e., the 3'-most position of the oligonucleotide aligns with the target SNP position) because this position is most destabilizing to elongation from the primer (see, e.g., WIPO patent WO/1993/022456). This PCR-based assay can be utilized as part of the TaqMan assay, described below.

[0081] In a specific embodiment of the invention, a primer of the invention contains a sequence substantially complementary to a segment of a target SNP-containing nucleic acid molecule except that the primer has a mismatched nucleotide in one of the three nucleotide positions at the 3'-most end of the primer, such that the mismatched nucleotide does not base pair with a particular allele at the SNP site. In a preferred embodiment, the mismatched nucleotide in the primer is the second from the last nucleotide at the 3'-most position of the primer. In a more preferred embodiment, the mismatched nucleotide in the primer is the last nucleotide at the 3'-most position of the primer.

[0082] In another embodiment of the invention, a SNP detection reagent of the invention is labeled with a fluorogenic reporter dye that emits a detectable signal. While the preferred reporter dye is a fluorescent dye, any reporter dye that can be attached to a detection reagent such as an oligonucleotide probe or primer is suitable for use in the invention. Such dyes include, but are not limited to, Acridine, AMCA, BODIPY, Cascade Blue, Cy2, Cy3, Cy5, Cy7, Dabcyl, Edans, Eosin, Erythrosin, Fluorescein, 6-Fam, Tet, Joe, Hex, Oregon Green, Rhodamine, Rhodol Green, Tamra, Rox, and Texas Red.

[0083] In yet another embodiment of the invention, the detection reagent may be further labeled with a quencher dye such as Tamra, especially when the reagent is used as a self-quenching probe such as a TaqMan (U.S. Pat. Nos. 5,210,015 and 5,538,848) or Molecular Beacon probe (U.S. Pat. Nos. 5,118,801 and 5,312,728), or other stemless or linear beacon probe (Livak KJ, et al. Oligonucleotides with fluorescent dyes at opposite ends provide a quenched probe system useful for detecting PCR product and nucleic acid

hybridization. PCR Methods Appl. Jun 1995;4(6):357-362. Tyagi S, Kramer FR. Molecular beacons: probes that fluoresce upon hybridization. Nat Biotechnol. Mar 1996;14(3):303-308. Nazarenko IA, et al. A closed tube format for amplification and detection of DNA based on energy transfer. Nucleic Acids Res. Jun 15 1997;25(12):2516-2521).

[0084] The detection reagents of the invention may also contain other labels, including but not limited to, biotin for streptavidin binding and oligonucleotide for binding to another complementary oligonucleotide such as pairs of zipcodes.

[0085] The present invention also contemplates reagents that do not contain (or that are complementary to) a SNP nucleotide identified herein but that are used to assay one or more SNPs disclosed herein. For example, primers that flank, but do not hybridize directly to a target SNP position provided herein are useful in primer extension reactions in which the primers hybridize to a region adjacent to the target SNP position (i.e., within one or more nucleotides from the target SNP site). During the primer extension reaction, a primer is typically not able to extend past a target SNP site if a particular nucleotide (allele) is present at that target SNP site, and the primer extension product can readily be detected in order to determine which SNP allele is present at the target SNP site. For example, particular ddNTPs are typically used in the primer extension reaction to terminate primer extension once a ddNTP is incorporated into the extension product (a primer extension product which includes a ddNTP at the 3'-most end of the primer extension product, and in which the ddNTP corresponds to a SNP disclosed herein, is a composition that is encompassed by the present invention). Thus, reagents that bind to a nucleic acid molecule in a region adjacent to a SNP site, even though the bound sequences do not necessarily include the SNP site itself, are also encompassed by the present invention.

[0086] SNP Detection Kits and Systems

[0087] A person skilled in the art will recognize that, based on the SNP and associated sequence information disclosed herein, detection reagents can be developed and used to assay any SNP of the present invention individually or in combination, and such detection reagents can be readily incorporated into one of the established kit or system formats which are well known in the art. The terms “kits” and “systems”, as used herein in the context of SNP detection reagents, are intended to refer to such things as

combinations of multiple SNP detection reagents, or one or more SNP detection reagents in combination with one or more other types of elements or components (e.g., other types of biochemical reagents, containers, packages such as packaging intended for commercial sale, substrates to which SNP detection reagents are attached, electronic hardware components, etc.). Accordingly, the present invention further provides SNP detection kits and systems, including but not limited to, packaged probe and primer sets (e.g., TaqMan probe/primer sets), arrays/microarrays of nucleic acid molecules, and beads that contain one or more probes, primers, or other detection reagents for detecting one or more SNPs of the present invention. The kits/systems can optionally include various electronic hardware components; for example, arrays ("DNA chips") and microfluidic systems ("lab-on-a-chip" systems) provided by various manufacturers typically comprise hardware components. Other kits/systems (e.g., probe/primer sets) may not include electronic hardware components, but may be comprised of, for example, one or more SNP detection reagents (along with, optionally, other biochemical reagents) packaged in one or more containers.

[0088] In some embodiments, a SNP detection kit typically contains one or more detection reagents and other components (e.g., a buffer, enzymes such as DNA polymerases or ligases, chain extension nucleotides such as deoxynucleotide triphosphates, and in the case of Sanger-type DNA sequencing reactions, chain terminating nucleotides, positive control sequences, negative control sequences, and the like) necessary to carry out an assay or reaction, such as amplification and/or detection of a SNP-containing nucleic acid molecule. A kit may further contain means for determining the amount of a target nucleic acid, and means for comparing the amount with a standard, and can comprise instructions for using the kit to detect the SNP-containing nucleic acid molecule of interest. In one embodiment of the present invention, kits are provided which contain the necessary reagents to carry out one or more assays to detect one or more SNPs disclosed herein. In a preferred embodiment of the present invention, SNP detection kits/systems are in the form of nucleic acid arrays, or compartmentalized kits, including microfluidic/lab-on-a-chip systems.

[0089] SNP detection kits/systems may contain, for example, one or more probes, or pairs of probes, that hybridize to a nucleic acid molecule at or near each target SNP position. Multiple pairs of allele-specific probes may be included in the kit/system to simultaneously assay large numbers of SNPs, at least one of which is a SNP of the present invention. In some kits/systems, the allele-specific probes are immobilized to a

substrate such as an array or bead. For example, the same substrate can comprise allele-specific probes for detecting at least 1; 10; 100; 1000; 10,000; 100,000; 500,000 (or any other number in-between) or substantially all of the SNPs disclosed herein.

[0090] The terms "arrays," "microarrays," and "DNA chips" are used herein interchangeably to refer to an array of distinct polynucleotides affixed to a substrate, such as glass, plastic, paper, nylon or other type of membrane, filter, chip, or any other suitable solid support. The polynucleotides can be synthesized directly on the substrate, or synthesized separate from the substrate and then affixed to the substrate. In one embodiment, the microarray is prepared and used according to the methods described in U.S. Pat. No. 5,837,832 (to Chee et al.), PCT application WO1995/011995 (to Chee et al.), Lockhart et al. (Expression monitoring by hybridization to high-density oligonucleotide arrays. Nat Biotechnol. Dec 1996;14(13):1675-1680); and Schena et al. (Parallel human genome analysis: microarray-based expression monitoring of 1000 genes. Proc Natl Acad Sci U S A. Oct 1 1996;93(20):10614-10619), all of which are incorporated herein in their entirety by reference. In other embodiments, such arrays are produced by the methods described in U.S. Pat. No. 5,807,522 (to Brown et al.).

[0091] Nucleic acid arrays are reviewed in the following references: Zammatteo et al. (New chips for molecular biology and diagnostics. Biotechnol Annu Rev. 2002;8:85-101); Sosnowski et al. (Active microelectronic array system for DNA hybridization, genotyping and pharmacogenomic applications. Psychiatr Genet. Dec 2002;12(4):181-192); Heller (DNA microarray technology: devices, systems, and applications. Annu Rev Biomed Eng. 2002;4:129-153); Kolchinsky and Mirzabekov (Analysis of SNPs and other genomic variations using gel-based chips. Hum Mutat. Apr 2002;19(4):343-360); and McGall and Christians (High-density genechip oligonucleotide probe arrays. Adv Biochem Eng Biotechnol. 2002;77:21-42).

[0092] Any number of probes, such as allele-specific probes, may be implemented in an array, and each probe or pair of probes can hybridize to a different SNP position. In the case of polynucleotide probes, they can be synthesized at designated areas (or synthesized separately and then affixed to designated areas) on a substrate using a light-directed chemical process. Each DNA chip can contain, for example, thousands to millions of individual synthetic polynucleotide probes arranged in a grid-like pattern and miniaturized (e.g., to the size of a dime). Preferably, probes are attached to a solid support in an ordered, addressable array.

[0093] A microarray can be composed of a large number of unique, single-stranded polynucleotides fixed to a solid support. Typical polynucleotides are preferably about 6-60 nucleotides in length, more preferably about 15-30 nucleotides in length, and most preferably about 18-25 nucleotides in length. For certain types of microarrays or other detection kits/systems, it may be preferable to use oligonucleotides that are only about 7-20 nucleotides in length. In other types of arrays, such as arrays used in conjunction with chemiluminescent detection technology, preferred probe lengths can be, for example, about 15-80 nucleotides in length, preferably about 50-70 nucleotides in length, more preferably about 55-65 nucleotides in length, and most preferably about 60 nucleotides in length. The microarray or detection kit can contain polynucleotides that cover the known 5' or 3' sequence of the target SNP site, sequential polynucleotides that cover the full-length sequence of a gene/transcript; or unique polynucleotides selected from particular areas along the length of a target gene/transcript sequence, particularly areas corresponding to one or more SNPs disclosed herein. Polynucleotides used in the microarray or detection kit can be specific to a SNP or SNPs of interest (e.g., specific to a particular SNP allele at a target SNP site, or specific to particular SNP alleles at multiple different SNP sites), or specific to a polymorphic gene/transcript or genes/transcripts of interest.

[0094] Hybridization assays based on polynucleotide arrays rely on the differences in hybridization stability of the probes to perfectly matched and mismatched target sequence variants. For SNP genotyping, it is generally preferable that stringency conditions used in hybridization assays are high enough such that nucleic acid molecules that differ from one another at as little as a single SNP position can be differentiated (e.g., typical SNP hybridization assays are designed so that hybridization will occur only if one particular nucleotide is present at a SNP position, but will not occur if an alternative nucleotide is present at that SNP position). Such high stringency conditions may be preferable when using, for example, nucleic acid arrays of allele-specific probes for SNP detection. Such high stringency conditions are described in the preceding section, and are well known to those skilled in the art and can be found in, for example, Ausubel et al. (Current Protocols in Molecular Biology. New York: John Wiley and Sons; 2007).

[0095] In other embodiments, the arrays are used in conjunction with chemiluminescent detection technology. The following patents and patent applications, which are all hereby incorporated by reference, provide additional information pertaining to chemiluminescent detection: U.S. patent application Ser. Nos. 10/620,332 and

10/620,333 describe chemiluminescent approaches for microarray detection; U.S. Pat. Nos. 6,124,478, 6,107,024, 5994073, 5981768, 5871958, 5843681, 5800999, and 5773628 describe methods and compositions of dioxetane for performing chemiluminescent detection; and U.S. published application US2002/0110828 discloses methods and compositions for microarray controls.

[0096] In one embodiment of the invention, a nucleic acid array can comprise an array of probes of about 15-25 nucleotides in length. In a further embodiment, a nucleic acid array can comprise an array of probes of about 15-75 nucleotides in length. In yet further embodiments, a nucleic acid array can comprise any number of probes, in which at least one probe is capable of detecting one or more SNPs disclosed in Table 1 and/or at least one probe comprises a fragment of one of the sequences selected from the group consisting of those disclosed herein, and sequences complementary thereto, said fragment comprising at least about 8 consecutive nucleotides, preferably 10, 12, 15, 16, 18, 20, more preferably 22, 25, 30, 40, 47, 50, 55, 60, 65, 70, 80, 90, 100, or more consecutive nucleotides (or any other number in-between) and containing (or being complementary to) a SNP. In some embodiments, the nucleotide complementary to the SNP site is within 5, 4, 3, 2, or 1 nucleotide from the center of the probe, more preferably at the center of said probe.

[0097] A polynucleotide probe can be synthesized on the surface of the substrate by using a chemical coupling procedure and an ink jet application apparatus, as described in PCT application WO95/251116 (to Baldeschweiler et al.) which is incorporated herein in its entirety by reference. In another aspect, a "gridded" array analogous to a dot (or slot) blot may be used to arrange and link cDNA fragments or oligonucleotides to the surface of a substrate using a vacuum system, thermal, UV, mechanical or chemical bonding procedures. An array, such as those described above, may be produced by hand or by using available devices (slot blot or dot blot apparatus), materials (any suitable solid support), and machines (including robotic instruments), and may contain 8, 24, 96, 384, 1536, 6144 or more polynucleotides, or any other number which lends itself to the efficient use of commercially available instrumentation.

[0098] Using such arrays or other kits/systems, the present invention provides methods of identifying the SNPs disclosed herein in a test sample. Such methods typically involve incubating a test sample of nucleic acids with an array comprising one or more probes corresponding to at least one SNP position of the present invention, and assaying for binding of a nucleic acid from the test sample with one or more of the

probes. Conditions for incubating a SNP detection reagent (or a kit/system that employs one or more such SNP detection reagents) with a test sample vary. Incubation conditions depend on such factors as the format employed in the assay, the detection methods employed, and the type and nature of the detection reagents used in the assay. One skilled in the art will recognize that any one of the commonly available hybridization, amplification and array assay formats can readily be adapted to detect the SNPs disclosed herein.

[0099] A SNP detection kit/system of the present invention may include components that are used to prepare nucleic acids from a test sample for the subsequent amplification and/or detection of a SNP-containing nucleic acid molecule. Such sample preparation components can be used to produce nucleic acid extracts, including DNA and/or RNA, extracts from any bodily fluids. In a preferred embodiment of the invention, the bodily fluid is blood, saliva or buccal swabs. The test samples used in the above-described methods will vary based on such factors as the assay format, nature of the detection method, and the specific tissues, cells or extracts used as the test sample to be assayed. Methods of preparing nucleic acids are well known in the art and can be readily adapted to obtain a sample that is compatible with the system utilized.

[00100] In yet another form of the kit in addition to reagents for preparation of nucleic acids and reagents for detection of one of the SNPs of this invention, the kit may include a questionnaire inquiring about non-genetic clinical factors such as age, gender, BMI, pelvic pain, infertility or any other non-genetic clinical factors known to be associated with endometriosis.

[00101] Another form of kit contemplated by the present invention is a compartmentalized kit. A compartmentalized kit includes any kit in which reagents are contained in separate containers. Such containers include, for example, small glass containers, plastic containers, strips of plastic, glass or paper, or arraying material such as silica. Such containers allow one to efficiently transfer reagents from one compartment to another compartment such that the test samples and reagents are not cross-contaminated, or from one container to another vessel not included in the kit, and the agents or solutions of each container can be added in a quantitative fashion from one compartment to another or to another vessel. Such containers may include, for example, one or more containers which will accept the test sample, one or more containers which contain at least one probe or other SNP detection reagent for detecting one or more SNPs of the present invention, one or more containers which contain wash reagents (such as phosphate buffered saline,

Tris-buffers, etc.), and one or more containers which contain the reagents used to reveal the presence of the bound probe or other SNP detection reagents. The kit can optionally further comprise compartments and/or reagents for, for example, nucleic acid amplification or other enzymatic reactions such as primer extension reactions, hybridization, ligation, electrophoresis (preferably capillary electrophoresis), mass spectrometry, and/or laser-induced fluorescent detection. The kit may also include instructions for using the kit. Exemplary compartmentalized kits include microfluidic devices known in the art (see, e.g., Weigl BH, et al. Lab-on-a-chip for drug development. Adv Drug Deliv Rev. Feb 24 2003;55(3):349-377). In such microfluidic devices, the containers may be referred to as, for example, microfluidic "compartments", "chambers", or "channels".

[00102] Microfluidic devices, which may also be referred to as "lab-on-a-chip" systems, biomedical micro-electro-mechanical systems (bioMEMs), or multicomponent integrated systems, are exemplary kits/systems of the present invention for analyzing SNPs. Such systems miniaturize and compartmentalize processes such as probe/target hybridization, nucleic acid amplification, and capillary electrophoresis reactions in a single functional device. Such microfluidic devices typically utilize detection reagents in at least one aspect of the system, and such detection reagents may be used to detect one or more SNPs of the present invention. One example of a microfluidic system is disclosed in U.S. Pat. No. 5,589,136, which describes the integration of PCR amplification and capillary electrophoresis in chips. Exemplary microfluidic systems comprise a pattern of microchannels designed onto a glass, silicon, quartz, or plastic wafer included on a microchip. The movements of the samples may be controlled by electric, electroosmotic or hydrostatic forces applied across different areas of the microchip to create functional microscopic valves and pumps with no moving parts. Varying the voltage can be used as a means to control the liquid flow at intersections between the micro-machined channels and to change the liquid flow rate for pumping across different sections of the microchip. See, for example, U.S. Pat. No. 6,153,073 (to Dubrow et al.), and U.S. Pat. No. 6,156,181 (to Parce et al).

[00103] For genotyping SNPs, a microfluidic system may integrate, for example, nucleic acid amplification, primer extension, capillary electrophoresis, and a detection method such as laser induced fluorescence detection.

[00104] Uses of Nucleic Acid Molecules

[00105] The nucleic acid molecules of the present invention have a variety of uses, especially in the diagnosis and treatment of endometriosis. For example, the nucleic acid molecules are useful as hybridization probes, such as for genotyping SNPs in messenger RNA, transcript, cDNA, genomic DNA, amplified DNA or other nucleic acid molecules comprising one of the SNPs disclosed in Tables 1-528, as well as their orthologs.

[00106] A probe can hybridize to any nucleotide sequence along the entire length of a nucleic acid molecule encompassing a SNP of the present invention. Preferably, a probe of the present invention hybridizes to a region of a target sequence that encompasses a SNP. More preferably, a probe hybridizes to a SNP-containing target sequence in a sequence-specific manner such that it distinguishes the target sequence from other nucleotide sequences which vary from the target sequence only by which nucleotide is present at the SNP site. Such a probe is particularly useful for detecting the presence of a SNP-containing nucleic acid in a test sample, or for determining which nucleotide (allele) is present at a particular SNP site (i.e., genotyping the SNP site).

[00107] A nucleic acid hybridization probe may be used for determining the presence, level, form, and/or distribution of nucleic acid expression. The nucleic acid whose level is determined can be DNA or RNA. Accordingly, probes specific for the SNPs described herein can be used to assess the presence, expression and/or gene copy number in a given cell, tissue, or organism. These uses are relevant for diagnosis of disorders involving an increase or decrease in gene expression relative to normal levels. In vitro techniques for detection of mRNA include, for example, Northern blot hybridizations and in situ hybridizations. In vitro techniques for detecting DNA include Southern blot hybridizations and in situ hybridizations (Sambrook J, Russell DW. Molecular Cloning: A Laboratory Manual. Third ed. Woodbury, NY: CSHL Press; 2001).

[00108] Probes can be used as part of a diagnostic test kit for identifying cells or tissues in which a variant protein is expressed, such as by measuring the level of a variant protein-encoding nucleic acid (e.g., mRNA) in a sample of cells from a subject or determining if a polynucleotide contains a SNP of interest.

[00109] Thus, the nucleic acid molecules of the invention can be used as hybridization probes to detect the SNPs disclosed herein, thereby determining whether an individual with the polymorphisms is at risk for endometriosis or has developed early stage endometriosis. Detection of a SNP associated with an endometriosis phenotype

provides a diagnostic and/or a prognostic tool for an active endometriosis and/or genetic predisposition to the endometriosis.

[00110] The nucleic acid molecules of the invention are also useful as primers to amplify any given region of a nucleic acid molecule, particularly a region containing a SNP of the present invention.

[00111] The nucleic acid molecules of the invention are also useful for constructing vectors containing a gene regulatory region of the nucleic acid molecules of the present invention. Further, the nucleic acid molecules of the invention also have therapeutic use in the form of siRNA (small interfering RNA).

[00112] SNP Genotyping Methods

[00113] The process of determining which specific nucleotide (i.e., allele) is present at each of one or more SNP positions, such as a SNP position in a nucleic acid molecule characterized by a SNP of the present invention, is referred to as SNP genotyping. The present invention provides methods of SNP genotyping, such as for use in screening for endometriosis or related pathologies, or determining predisposition thereto, or determining responsiveness to a form of treatment, or in genome mapping or SNP association analysis, etc.

[00114] Nucleic acid samples can be genotyped to determine which allele(s) is/are present at any given genetic region (e.g., SNP position) of interest by methods well known in the art. The neighboring sequence can be used to design SNP detection reagents such as oligonucleotide probes, which may optionally be implemented in a kit format. Exemplary SNP genotyping methods are described in Chen et al. (Single nucleotide polymorphism genotyping: biochemistry, protocol, cost and throughput. Pharmacogenomics J. 2003;3(2):77-96); Kwok et al., (Detection of single nucleotide polymorphisms. Curr Issues Mol Biol. Apr 2003;5(2):43-60); Shi, (Technologies for individual genotyping: detection of genetic polymorphisms in drug targets and disease genes. Am J Pharmacogenomics. 2002;2(3):197-205); and Kwok, (Methods for genotyping single nucleotide polymorphisms. Annu Rev Genomics Hum Genet. 2001;2:235-258). Exemplary techniques for high-throughput SNP genotyping are described in Marnellos, (High-throughput SNP analysis for genetic association studies. Curr Opin Drug Discov Devel. May 2003;6(3):317-321). Common SNP genotyping methods include, but are not limited to, TaqMan assays, molecular beacon assays, nucleic

acid arrays, allele-specific primer extension, allele-specific PCR, arrayed primer extension, homogeneous primer extension assays, primer extension with detection by mass spectrometry, mass spectrometry with or with monoisotopic dNTPs (U.S. Pat. No. 6,734,294), pyrosequencing, multiplex primer extension sorted on genetic arrays, ligation with rolling circle amplification, homogeneous ligation, OLA (U.S. Pat. No. 4,988,167), multiplex ligation reaction sorted on genetic arrays, restriction-fragment length polymorphism, single base extension-tag assays, and the Invader assay. Such methods may be used in combination with detection mechanisms such as, for example, luminescence or chemiluminescence detection, fluorescence detection, time-resolved fluorescence detection, fluorescence resonance energy transfer, fluorescence polarization, mass spectrometry, electrospray mass spectrometry, and electrical detection.

[00115] Various methods for detecting polymorphisms include, but are not limited to, methods in which protection from cleavage agents is used to detect mismatched bases in RNA/RNA or RNA/DNA duplexes (Myers RM, et al. A general method for saturation mutagenesis of cloned DNA fragments. Science. Jul 19 1985;229(4710):242-247. Cotton RGH, et al. Reactivity of Cytosine and Thymine in Single-Base-Pair Mismatches with Hydroxylamine and Osmium Tetroxide and Its Application to the Study of Mutations. PNAS. June 15 1988;85(12):4397-4401. Saleeba JA, Cotton RG. Chemical cleavage of mismatch to detect mutations. Methods Enzymol. 1993;217:286-295), comparison of the electrophoretic mobility of variant and wild type nucleic acid molecules (Orita M, et al. Detection of polymorphisms of human DNA by gel electrophoresis as single-strand conformation polymorphisms. Proc Natl Acad Sci U S A. Apr 1989;86(8):2766-2770. Cotton RGH. Current methods of mutation detection. Mutation Research. 1993;285:125-144. Hayashi K. PCR-SSCP: a method for detection of mutations. Genet Anal Tech Appl. Jun 1992;9(3):73-79), and assaying the movement of polymorphic or wild-type fragments in polyacrylamide gels containing a gradient of denaturant using denaturing gradient gel electrophoresis (DGGE) (Myers RM, et al. Detection of single base substitutions in total genomic DNA. Nature. Feb 7-13 1985;313(6002):495-498). Sequence variations at specific locations can also be assessed by nuclease protection assays such as RNase and S1 protection or chemical cleavage methods.

[00116] In a preferred embodiment, SNP genotyping is performed using the TaqMan assay, which is also known as the 5' nuclease assay (U.S. Pat. Nos. 5,210,015 and 5,538,848). The TaqMan assay detects the accumulation of a specific amplified

product during PCR. The TaqMan assay utilizes an oligonucleotide probe labeled with a fluorescent reporter dye and a quencher dye. The reporter dye is excited by irradiation at an appropriate wavelength, it transfers energy to the quencher dye in the same probe via a process called fluorescence resonance energy transfer (FRET). When attached to the probe, the excited reporter dye does not emit a signal. The proximity of the quencher dye to the reporter dye in the intact probe maintains a reduced fluorescence for the reporter. The reporter dye and quencher dye may be at the 5' most and the 3' most ends, respectively, or vice versa. Alternatively, the reporter dye may be at the 5' or 3' most end while the quencher dye is attached to an internal nucleotide, or vice versa. In yet another embodiment, both the reporter and the quencher may be attached to internal nucleotides at a distance from each other such that fluorescence of the reporter is reduced.

[00117] During PCR, the 5' nuclease activity of DNA polymerase cleaves the probe, thereby separating the reporter dye and the quencher dye and resulting in increased fluorescence of the reporter. Accumulation of PCR product is detected directly by monitoring the increase in fluorescence of the reporter dye. The DNA polymerase cleaves the probe between the reporter dye and the quencher dye only if the probe hybridizes to the target SNP-containing template which is amplified during PCR, and the probe is designed to hybridize to the target SNP site only if a particular SNP allele is present.

[00118] Preferred TaqMan primer and probe sequences can readily be determined using the SNP and associated nucleic acid sequence information provided herein. A number of computer programs, such as Primer Express (Applied Biosystems, Foster City, Calif.), can be used to rapidly obtain optimal primer/probe sets. It will be apparent to one of skill in the art that such primers and probes for detecting the SNPs of the present invention are useful in diagnostic assays for endometriosis and related pathologies, and can be readily incorporated into a kit format. The present invention also includes modifications of the Taqman assay well known in the art such as the use of Molecular Beacon probes (U.S. Pat. Nos. 5,118,801 and 5,312,728) and other variant formats (U.S. Pat. Nos. 5,866,336 and 6,117,635).

[00119] Another preferred method for genotyping the SNPs of the present invention is the use of two oligonucleotide probes in an OLA (see, e.g., U.S. Pat. No. 4,988,617). In this method, one probe hybridizes to a segment of a target nucleic acid with its 3' most end aligned with the SNP site. A second probe hybridizes to an adjacent segment of the target nucleic acid molecule directly 3' to the first probe. The two

juxtaposed probes hybridize to the target nucleic acid molecule, and are ligated in the presence of a linking agent such as a ligase if there is perfect complementarity between the 3' most nucleotide of the first probe with the SNP site. If there is a mismatch, ligation would not occur. After the reaction, the ligated probes are separated from the target nucleic acid molecule, and detected as indicators of the presence of a SNP.

[00120] The following patents, patent applications, and published international patent applications, which are all hereby incorporated by reference, provide additional information pertaining to techniques for carrying out various types of OLA: U.S. Pat. Nos. 6,027,889, 6,268,148, 5494810, 5830711, and 6054564 describe OLA strategies for performing SNP detection; WIPO patents WO/1997/031256 and WO/2000/056927 describe OLA strategies for performing SNP detection using universal arrays, wherein a zipcode sequence can be introduced into one of the hybridization probes, and the resulting product, or amplified product, hybridized to a universal zip code array; WIPO patent WO/2001/092579 (and US application 09/584,905) describes OLA (or LDR) followed by PCR, wherein zipcodes are incorporated into OLA probes, and amplified PCR products are determined by electrophoretic or universal zipcode array readout; U.S. application 60/427,818, 60/445,636, and 60/445,494 describe SNPlex methods and software for multiplexed SNP detection using OLA followed by PCR, wherein zipcodes are incorporated into OLA probes, and amplified PCR products are hybridized with a zipchute reagent, and the identity of the SNP determined from electrophoretic readout of the zipchute. In some embodiments, OLA is carried out prior to PCR (or another method of nucleic acid amplification). In other embodiments, PCR (or another method of nucleic acid amplification) is carried out prior to OLA.

[00121] Another method for SNP genotyping is based on mass spectrometry. Mass spectrometry takes advantage of the unique mass of each of the four nucleotides of DNA. SNPs can be unambiguously genotyped by mass spectrometry by measuring the differences in the mass of nucleic acids having alternative SNP alleles. MALDI-TOF (Matrix Assisted Laser Desorption Ionization-Time of Flight) mass spectrometry technology is preferred for extremely precise determinations of molecular mass, such as SNPs. Numerous approaches to SNP analysis have been developed based on mass spectrometry. Preferred mass spectrometry-based methods of SNP genotyping include primer extension assays, which can also be utilized in combination with other approaches, such as traditional gel-based formats and microarrays.

[00122] The following references provide further information describing mass spectrometry-based methods for SNP genotyping: Bocker (SNP and mutation discovery using base-specific cleavage and MALDI-TOF mass spectrometry. Bioinformatics. 2003;19 Suppl 1:i44-53), Storm et al. (MALDI-TOF mass spectrometry-based SNP genotyping. Methods Mol Biol. 2003;212:241-262), Jurinke et al. (The use of MassARRAY technology for high throughput genotyping. Adv Biochem Eng Biotechnol. 2002;77:57-74), and Jurinke et al. (Automated genotyping using the DNA MassArray technology. Methods Mol Biol. 2002;187:179-192).

[00123] An even more preferred method for genotyping the SNPs of the present invention is the use of electrospray mass spectrometry for direct analysis of an amplified nucleic acid (see, e.g., U.S. Pat. No. 6,734,294). In this method, in one aspect, an amplified nucleic acid product may be isotopically enriched in an isotope of oxygen (O), carbon (C), nitrogen (N) or any combination of those elements. In a preferred embodiment the amplified nucleic acid is isotopically enriched to a level of greater than 99.9% in the elements of O^{16} , C^{12} and N^{14} The amplified isotopically enriched product can then be analyzed by electrospray mass spectrometry to determine the nucleic acid composition and the corresponding SNP genotyping. Isotopically enriched amplified products result in a corresponding increase in sensitivity and accuracy in the mass spectrum. In another aspect of this method an amplified nucleic acid that is not isotopically enriched can also have composition and SNP genotype determined by electrospray mass spectrometry.

[00124] SNPs can also be scored by direct DNA sequencing. A variety of automated sequencing procedures can be utilized (Naeve CW, et al. Accuracy of automated DNA sequencing: a multi-laboratory comparison of sequencing results. Biotechniques. Sep 1995;19(3):448-453), including sequencing by mass spectrometry (see, e.g., WIPO patent WO/1994/016101; Cohen AS, et al. Emerging technologies for sequencing antisense oligonucleotides: capillary electrophoresis and mass spectrometry. Adv Chromatogr. 1996;36:127-162; and Griffin HG, Griffin AM. DNA sequencing. Recent innovations and future trends. Appl Biochem Biotechnol. Jan-Feb 1993;38(1-2):147-159). The nucleic acid sequences of the present invention enable one of ordinary skill in the art to readily design sequencing primers for such automated sequencing procedures. Commercial instrumentation, such as the Applied Biosystems 377, 3100, 3700, 3730, and 3730x1 DNA Analyzers (Foster City, Calif.), is commonly used in the art for automated sequencing.

[00125] SNP genotyping can include the steps of, for example, collecting a biological sample from a human subject (e.g., sample of tissues, cells, fluids, secretions, etc.), isolating nucleic acids (e.g., genomic DNA, mRNA or both) from the cells of the sample, contacting the nucleic acids with one or more primers which specifically hybridize to a region of the isolated nucleic acid containing a target SNP under conditions such that hybridization and amplification of the target nucleic acid region occurs, and determining the nucleotide present at the SNP position of interest, or, in some assays, detecting the presence or absence of an amplification product (assays can be designed so that hybridization and/or amplification will only occur if a particular SNP allele is present or absent). In some assays, the size of the amplification product is detected and compared to the length of a control sample; for example, deletions and insertions can be detected by a change in size of the amplified product compared to a normal genotype.

[00126] SNP genotyping is useful for numerous practical applications, as described below. Examples of such applications include, but are not limited to, SNP-endometriosis association analysis, endometriosis predisposition screening, endometriosis diagnosis, endometriosis prognosis, endometriosis progression monitoring, determining therapeutic strategies based on an individual's genotype, and stratifying a patient population for clinical trials for a treatment such as minimally invasive device for the treatment of endometriosis.

[00127] Analysis of Genetic Association between SNPs and Phenotypic Traits

[00128] SNP genotyping for endometriosis diagnosis, endometriosis predisposition screening, endometriosis prognosis and endometriosis treatment and other uses described herein, typically relies on initially establishing a genetic association between one or more specific SNPs and the particular phenotypic traits of interest.

[00129] In a genetic association study, the cause of interest to be tested is a certain allele or a SNP or a combination of alleles or a haplotype from several SNPs. Thus, tissue specimens (e.g., saliva) from the sampled individuals may be collected and genomic DNA genotyped for the SNP(s) of interest. In addition to the phenotypic trait of interest, other information such as demographic (e.g., age, gender, ethnicity, etc.), clinical, and environmental information that may influence the outcome of the trait can be collected to further characterize and define the sample set. Specifically, in an endometriosis genetic association study, clinical information such as body mass index,

age and diet may be collected. In many cases, these factors are known to be associated with diseases and/or SNP allele frequencies. There are likely gene-environment and/or gene-gene interactions as well. Analysis methods to address gene-environment and gene-gene interactions (for example, the effects of the presence of both susceptibility alleles at two different genes can be greater than the effects of the individual alleles at two genes combined) are discussed below.

[00130] After all the relevant phenotypic and genotypic information has been obtained, statistical analyses are carried out to determine if there is any significant correlation between the presence of an allele or a genotype with the phenotypic characteristics of an individual. Preferably, data inspection and cleaning are first performed before carrying out statistical tests for genetic association. Epidemiological and clinical data of the samples can be summarized by descriptive statistics with tables and graphs. Data validation is preferably performed to check for data completion, inconsistent entries, and outliers. Chi-squared tests may then be used to check for significant differences between cases and controls for discrete and continuous variables, respectively. To ensure genotyping quality, Hardy-Weinberg disequilibrium tests can be performed on cases and controls separately. Significant deviation from Hardy-Weinberg equilibrium (HWE) in both cases and controls for individual markers can be indicative of genotyping errors. If HWE is violated in a majority of markers, it is indicative of population substructure that should be further investigated. Moreover, Hardy-Weinberg disequilibrium in cases only can indicate genetic association of the markers with the disease of interest. (Weir BS. Genetic Data Analysis: Methods for Discrete Population Genetic Data. Sunderland, MA: Sinauer Associates; 1990).

[00131] To test whether an allele of a single SNP is associated with the case or control status of a phenotypic trait, one skilled in the art can compare allele frequencies in cases and controls. Standard chi-squared tests and Fisher exact tests can be carried out on a 2×2 table (2 SNP alleles×2 outcomes in the categorical trait of interest). To test whether genotypes of a SNP are associated, chi-squared tests can be carried out on a 3×2 table (3 genotypes×2 outcomes). Score tests are also carried out for genotypic association to contrast the three genotypic frequencies (major homozygotes, heterozygotes and minor homozygotes) in cases and controls, and to look for trends using 3 different modes of inheritance, namely dominant (with contrast coefficients 2, -1, -1), additive (with contrast coefficients 1, 0, -1) and recessive (with contrast coefficients 1, 1, -2). Odds ratios for minor versus major alleles, and odds ratios for heterozygote and homozygote variants

versus the wild type genotypes are calculated with the desired confidence limits, usually 95%. In the present study a software algorithm, PLINK, has been applied to automate the calculation of Hardy-Weinberg equilibrium, chi-square, p-values and odds-ratios for very large numbers of SNPs and Case-Control individuals simultaneously (Purcell S, et al. PLINK: a tool set for whole-genome association and population-based linkage analyses. Am J Hum Genet. Sep 2007;81(3):559-575).

[00132] In order to control for confounding effects and to test for interactions a stepwise multiple logistic regression analysis using statistical packages such as SAS or R may be performed. Logistic regression is a model-building technique in which the best fitting and most parsimonious model is built to describe the relation between the dichotomous outcome (for instance, getting a certain endometriosis or not) and a set of independent variables (for instance, genotypes of different associated genes, and the associated demographic and environmental factors). The most common model is one in which the logit transformation of the odds ratios is expressed as a linear combination of the variables (main effects) and their cross-product terms (interactions) (Hosmer DW, Lemeshow S. Applied Logistic Regression. Second ed. Hoboken, NJ: Wiley-Interscience; 2000). To test whether a certain variable or interaction is significantly associated with the outcome, coefficients in the model are first estimated and then tested for statistical significance of their departure from zero.

[00133] In addition to performing association tests one marker at a time, haplotype association analysis may also be performed to study a number of markers that are closely linked together. Haplotype association tests can have better power than genotypic or allelic association tests when the tested markers are not the disease-causing mutations themselves but are in linkage disequilibrium with such mutations. In order to perform haplotype association effectively, marker-marker linkage disequilibrium measures, both D' and r^2, are typically calculated for the markers within a gene to elucidate the haplotype structure. Recent studies (Daly MJ, et al. High-resolution haplotype structure in the human genome. Nat Genet. Oct 2001;29(2):229-232) in linkage disequilibrium indicate that SNPs within a gene are organized in block pattern, and a high degree of linkage disequilibrium exists within blocks and very little linkage disequilibrium exists between blocks. Haplotype association with the endometriosis status can be performed using such blocks once they have been elucidated.

[00134] Haplotype association tests can be carried out in a similar fashion as the allelic and genotypic association tests. Each haplotype is analogous to an allele in a

multi-allelic marker. One skilled in the art can either compare the haplotype frequencies in cases and controls or test genetic association with different pairs of haplotypes. It has been proposed (Schaid DJ, et al. Score tests for association between traits and haplotypes when linkage phase is ambiguous. Am J Hum Genet. Feb 2002;70(2):425-434) that score tests can be done on haplotypes using the program "haplo.score". In that method, haplotypes are first inferred by EM algorithm and score tests are carried out with a generalized linear model (GLM) framework that allows the adjustment of other factors.

[00135] An important decision in the performance of genetic association tests is the determination of the significance level at which significant association can be declared when the p-value of the tests reaches that level. In an exploratory analysis where positive hits will be followed up in subsequent confirmatory testing, an unadjusted p-value <0.1 (a significance level on the lenient side) may be used for generating hypotheses for significant association of a SNP with certain phenotypic characteristics of endometriosis. It is preferred that a p-value <0.05 (a significance level traditionally used in the art) is achieved in order for a SNP to be considered to have an association with endometriosis. It is more preferred that a p-value <0.01 (a significance level on the stringent side) is achieved for an association to be declared. Permutation tests to control for the false discovery rates, FDR, can further be employed (Schaid DJ, et al. Score tests for association between traits and haplotypes when linkage phase is ambiguous. Am J Hum Genet. Feb 2002;70(2):425-434). Such methods to control for multiplicity would be preferred when the tests are dependent and controlling for false discovery rates is sufficient as opposed to controlling for the experiment-wise error rates.

[00136] In replication studies using samples from different populations after statistically significant markers have been identified in the exploratory stage, meta-analyses can then be performed by combining evidence of different studies, such as the original study and the replication study (Rothman KJ, Greenland S, eds. Modern Epidemiology. Second ed. Philadelphia, PA: Lippincott Williams & Wilkins; 1998, 643-673). If available, association results known in the art for the same SNPs can be included in the meta-analyses.

[00137] Since both genotyping and endometriosis status classification can involve errors, sensitivity analyses may be performed to see how odds ratios and p-values would change upon various estimates on genotyping and endometriosis classification error rates.

[00138] Once individual risk factors, genetic or non-genetic, have been found for the predisposition to endometriosis, the next step is to set up a classification/prediction scheme to predict the category (for instance, endometriosis or no endometriosis) that an individual will be in depending on his genotypes of associated SNPs and other non-genetic risk factors. Logistic regression for discrete trait and linear regression for continuous trait are standard techniques for such tasks (Draper NR, Smith H. Applied Regression Analysis. Third ed. Hoboken, NJ: Wiley-Interscience; 1998). Moreover, other techniques can also be used for setting up classification. Such techniques include, but are not limited to, MART, CART, neural network, and discriminant analyses that are suitable for use in comparing the performance of different methods (Hastie T, et al. The Elements of Statistical Learning: Data Mining, Inference, and Prediction. New York: Springer; 2001).

[00139] Endometriosis Diagnosis and Predisposition Screening

[00140] Information on association/correlation between genotypes and endometriosis-related phenotypes can be exploited in several ways. For example, in the case of a highly statistically significant association between one or more SNPs with predisposition to a disease for which treatment is available, detection of such a genotype pattern in an individual may justify particular treatment, or at least the institution of regular monitoring of the individual. In the case of a weaker but still statistically significant association between a SNP and a human disease, immediate therapeutic intervention or monitoring may not be justified after detecting the susceptibility allele or SNP.

[00141] The SNPs of the invention may contribute to endometriosis in an individual in different ways. Some polymorphisms occur within a protein coding sequence and contribute to endometriosis phenotype by affecting protein structure. Other polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on, for example, replication, transcription, and/or translation. A single SNP may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by multiple SNPs in different genes.

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polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on, for example, replication, transcription, and/or translation. A single SNP may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by multiple SNPs in different genes.

[00143] Haplotypes are particularly useful in that, for example, fewer SNPs can be genotyped to determine if a particular genomic region harbors a locus that influences a particular phenotype, such as in linkage disequilibrium-based SNP association analysis.

[00144] Linkage disequilibrium (LD) refers to the co-inheritance of alleles (e.g., alternative nucleotides) at two or more different SNP sites at frequencies greater than would be expected from the separate frequencies of occurrence of each allele in a given population. The expected frequency of co-occurrence of two alleles that are inherited independently is the frequency of the first allele multiplied by the frequency of the second allele. Alleles that co-occur at expected frequencies are said to be in "linkage equilibrium". In contrast, LD refers to any non-random genetic association between allele(s) at two or more different SNP sites, which is generally due to the physical proximity of the two loci along a chromosome. LD can occur when two or more SNPs sites are in close physical proximity to each other on a given chromosome and therefore alleles at these SNP sites will tend to remain unseparated for multiple generations with the consequence that a particular nucleotide (allele) at one SNP site will show a non-random association with a particular nucleotide (allele) at a different SNP site located nearby. Hence, genotyping one of the SNP sites will give almost the same information as genotyping the other SNP site that is in LD.

[00145] For diagnostic purposes, if a particular SNP site is found to be useful for diagnosing endometriosis, then the skilled artisan would recognize that other SNP sites which are in LD with this SNP site would also be useful for diagnosing the condition. Various degrees of LD can be encountered between two or more SNPs with the result being that some SNPs are more closely associated (i.e., in stronger LD) than others. Furthermore, the physical distance over which LD extends along a chromosome differs between different regions of the genome, and therefore the degree of physical separation between two or more SNP sites necessary for LD to occur can differ between different regions of the genome.

[00146] For diagnostic applications, polymorphisms (e.g., SNPs and/or haplotypes) that are not the actual disease-causing (causative) polymorphisms, but are in LD with such causative polymorphisms, are also useful. In such instances, the genotype

of the polymorphism(s) that is/are in LD with the causative polymorphism is predictive of the genotype of the causative polymorphism and, consequently, predictive of the phenotype (e.g., endometriosis) that is influenced by the causative SNP(s). Thus, polymorphic markers that are in LD with causative polymorphisms are useful as diagnostic markers, and are particularly useful when the actual causative polymorphism(s) is/are unknown.

[00147] Linkage disequilibrium in the human genome is reviewed in: International HapMap Consortium, (A haplotype map of the human genome. Nature. Oct 27 2005;437(7063):1299-1320); Wall and Pritchard (Haplotype blocks and linkage disequilibrium in the human genome. Nat Rev Genet. Aug 2003;4(8):587-597); Garner and Slatkin (On selecting markers for association studies: patterns of linkage disequilibrium between two and three diallelic loci. Genet Epidemiol. Jan 2003;24(1):57-67); Ardlie et al. (Patterns of linkage disequilibrium in the human genome. Nat Rev Genet. Apr 2002;3(4):299-309); and Remm and Metspalu (High-density genotyping and linkage disequilibrium in the human genome using chromosome 22 as a model. Curr Opin Chem Biol. Feb 2002;6(1):24-30).

[00148] The contribution or association of particular SNPs and/or SNP haplotypes with endometriosis phenotypes, such as endometriosis, enables the SNPs of the present invention to be used to develop superior diagnostic tests capable of identifying individuals who express a detectable trait, such as endometriosis as the result of a specific genotype, or individuals whose genotype places them at an increased or decreased risk of developing a detectable trait at a subsequent time as compared to individuals who do not have that genotype. As described herein, diagnostics may be based on a single SNP or a group of SNPs. Combined detection of a plurality of SNPs (for example, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 24, 25, 30, 32, 48, 50, 64, 96, 100, or any other number in-between, or more, of the SNPs provided in Tables 1-528 typically increases the probability of an accurate diagnosis. For example, the presence of a single SNP known to correlate with endometriosis might indicate a odds ratio of 1.5 that an individual has or is at risk of developing endometriosis, whereas detection of five SNPs, each of which correlates with endometriosis, might indicate an odds ratio of 9.5 that an individual has or is at risk of developing endometriosis. To further increase the accuracy of diagnosis or predisposition screening, analysis of the SNPs of the present invention can be combined with that of other polymorphisms or other risk factors of endometriosis, such as gender and age.

[00149] It will, of course, be understood by practitioners skilled in the treatment or diagnosis of endometriosis that the present invention generally does not intend to provide an absolute identification of individuals who are at risk (or less at risk) of developing endometriosis and/or pathologies related to endometriosis, but rather to indicate a certain increased (or decreased) degree or likelihood of developing the endometriosis based on statistically significant association results. However, this information is extremely valuable as it can be used to, for example, initiate earlier preventive treatments or to allow an individual carrying one or more significant SNPs or SNP haplotypes to regularly scheduled physical exams to monitor for the appearance or change of their endometriosis in order to identify and begin treatment of the endometriosis at an early stage.

[00150] The diagnostic techniques of the present invention may employ a variety of methodologies to determine whether a test subject has a SNP or a SNP pattern associated with an increased or decreased risk of developing a detectable trait or whether the individual suffers from a detectable trait as a result of a particular polymorphism/mutation, including, for example, methods which enable the analysis of individual chromosomes for haplotyping, family studies, single sperm DNA analysis, or somatic hybrids. The trait analyzed using the diagnostics of the invention may be any detectable trait that is commonly observed in pathologies and disorders related to endometriosis.

[00151] Another aspect of the present invention relates to a method of determining whether an individual is at risk (or less at risk) of developing one or more traits or whether an individual expresses one or more traits as a consequence of possessing a particular trait-causing or trait-influencing allele. These methods generally involve obtaining a nucleic acid sample from an individual and assaying the nucleic acid sample to determine which nucleotide(s) is/are present at one or more SNP positions, wherein the assayed nucleotide(s) is/are indicative of an increased or decreased risk of developing the trait or indicative that the individual expresses the trait as a result of possessing a particular trait-causing or trait-influencing allele.

[00152] The SNPs of the present invention also can be used to identify novel therapeutic targets for endometriosis. For example, genes containing the disease-associated variants ("variant genes") or their products, as well as genes or their products that are directly or indirectly regulated by or interacting with these variant genes or their products, can be targeted for the development of therapeutics that, for example, treat the

endometriosis or prevent or delay endometriosis onset. The therapeutics may be composed of, for example, small molecules, proteins, protein fragments or peptides, antibodies, nucleic acids, or their derivatives or mimetics which modulate the functions or levels of the target genes or gene products.

[00153] The SNPs/haplotypes of the present invention are also useful for improving many different aspects of the drug development process. For example, individuals can be selected for clinical trials based on their SNP genotype. Individuals with SNP genotypes that indicate that they are most likely to respond to or most likely to benefit from a device or a drug can be included in the trials and those individuals whose SNP genotypes indicate that they are less likely to or would not respond to a device or a drug, or suffer adverse reactions, can be eliminated from the clinical trials. This not only improves the safety of clinical trials, but also will enhance the chances that the trial will demonstrate statistically significant efficacy. Furthermore, the SNPs of the present invention may explain why certain previously developed devices or drugs performed poorly in clinical trials and may help identify a subset of the population that would benefit from a drug that had previously performed poorly in clinical trials, thereby "rescuing" previously developed therapeutic treatment methods or drugs, and enabling the methods or drug to be made available to a particular endometriosis patient population that can benefit from it.

[00154] Pharmaceutical Compositions

[00155] Any of the endometriosis-associated proteins, and encoding nucleic acid molecules, disclosed herein can be used as therapeutic targets (or directly used themselves as therapeutic compounds) for treating endometriosis and related pathologies, and the present disclosure enables therapeutic compounds (e.g., small molecules, antibodies, therapeutic proteins, RNAi and antisense molecules, etc.) to be developed that target (or are comprised of) any of these therapeutic targets.

[00156] Variant Proteins Encoded by SNP-Containing Nucleic Acid Molecules

[00157] The present invention provides SNP-containing nucleic acid molecules, some of which encode proteins having variant amino acid sequences as compared to the art-known (i.e., wild-type) proteins. These variants will generally be referred to herein as variant proteins/peptides/polypeptides, or polymorphic

proteins/peptides/polypeptides of the present invention. The terms "protein", "peptide", and "polypeptide" are used herein interchangeably.

[00158] A variant protein of the present invention may be encoded by, for example, a nonsynonymous nucleotide substitution at any one of the cSNP positions disclosed herein. In addition, variant proteins may also include proteins whose expression, structure, and/or function is altered by a SNP disclosed herein, such as a SNP that creates or destroys a stop codon, a SNP that affects splicing, and a SNP in control/regulatory elements, e.g. promoters, enhancers, or transcription factor binding domains.

[00159] Uses of Variant Proteins

[00160] The variant proteins of the present invention can be used in a variety of ways, including but not limited to, in assays to determine the biological activity of a variant protein, such as in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another type of immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the variant protein (or its binding partner) in biological fluids; as a marker for cells or tissues in which it is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a endometriosis state); as a target for screening for a therapeutic agent; and as a direct therapeutic agent to be administered into a human subject. Any of the variant proteins disclosed herein may be developed into reagent grade or kit format for commercialization as research products. Methods for performing the uses listed above are well known to those skilled in the art (see, e.g., Sambrook J, Russell DW. Molecular Cloning: A Laboratory Manual. Third ed. Woodbury, NY: CSHL Press; 2001 and Berger SL, Kimmel AR, eds. Guide to Molecular Cloning Techniques. New York: Academic Press; 1987. Methods in Enzymology; No. 152).

[00161] Computer-Related Embodiments

[00162] The SNPs provided in the present invention may be "provided" in a variety of mediums to facilitate use thereof. As used in this section, "provided" refers to a manufacture, other than an isolated nucleic acid molecule, that contains SNP information of the present invention. Such a manufacture provides the SNP information in a form that allows a skilled artisan to examine the manufacture using means not

directly applicable to examining the SNPs or a subset thereof as they exist in nature or in purified form. The SNP information that may be provided in such a form includes any of the SNP information provided by the present invention such as, for example, polymorphic nucleic acid and/or amino acid sequence information, information about observed SNP alleles, alternative codons, populations, allele frequencies, SNP types, and/or affected proteins, or any other information provided by the present invention in Table 1 or in Tables 2-528.

[00163] In one application of this embodiment, the SNPs of the present invention can be recorded on a computer readable medium. As used herein, "computer readable medium" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. A skilled artisan can readily appreciate how any of the presently known computer readable media can be used to create a manufacture comprising computer readable medium having recorded thereon a nucleotide sequence of the present invention. One such medium is provided with the present application, namely, the present application contains computer readable medium (CD-R) that has nucleic acid sequences (and encoded protein sequences) containing SNPs provided/recorded thereon in ASCII text format in a Sequence Listing along with accompanying Tables that contain detailed SNP and sequence information.

[00164] As used herein, "recorded" refers to a process for storing information on computer readable medium. A skilled artisan can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the SNP information of the present invention.

[00165] A variety of data storage structures are available to a skilled artisan for creating a computer readable medium having recorded thereon a nucleotide or amino acid sequence of the present invention. The choice of the data storage structure will generally be based on the means chosen to access the stored information. In addition, a variety of data processor programs and formats can be used to store the nucleotide/amino acid sequence information of the present invention on computer readable medium. For example, the sequence information can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and Microsoft Word, represented in the form of an ASCII file, or stored in a database application, such as OB2,

Sybase, Oracle, or the like. A skilled artisan can readily adapt any number of data processor structuring formats (e.g., text file or database) in order to obtain computer readable medium having recorded thereon the SNP information of the present invention.

[00166] By providing the SNPs of the present invention in computer readable form, a skilled artisan can routinely access the SNP information for a variety of purposes. Computer software is publicly available which allows a skilled artisan to access sequence information provided in a computer readable medium. Examples of publicly available computer software include BLAST (Altschul SF, et al. Basic local alignment search tool. J Mol Biol. Oct 5 1990;215(3):403-410) and BLAZE (Brutlag DL, et al. BLAZE: An implementation of the Smith-Waterman comparison algorithm on a massively parallel computer. Computers and Chemistry. 1993;17:203-207) search algorithms.

[00167] The present invention further provides systems, particularly computer-based systems, which contain the SNP information described herein. Such systems may be designed to store and/or analyze information on, for example, a large number of SNP positions, or information on SNP genotypes from a large number of individuals. The SNP information of the present invention represents a valuable information source. The SNP information of the present invention stored/analyzed in a computer-based system may be used for such computer-intensive applications as determining or analyzing SNP allele frequencies in a population, mapping endometriosis genes, genotype-phenotype association studies, grouping SNPs into haplotypes, correlating SNP haplotypes with response to particular treatments or for various other bioinformatic, pharmacogenomic or drug development.

[00168] As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the SNP information of the present invention. The minimum hardware means of the computer-based systems of the present invention typically comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based systems are suitable for use in the present invention. Such a system can be changed into a system of the present invention by utilizing the SNP information provided on the CD-R, or a subset thereof, without any experimentation.

[00169] As stated above, the computer-based systems of the present invention comprise a data storage means having stored therein SNPs of the present invention and the necessary hardware means and software means for supporting and implementing a

search means. As used herein, "data storage means" refers to memory which can store SNP information of the present invention, or a memory access means which can access manufactures having recorded thereon the SNP information of the present invention.

[00170] As used herein, "search means" refers to one or more programs or algorithms that are implemented on the computer-based system to identify or analyze SNPs in a target sequence based on the SNP information stored within the data storage means. Search means can be used to determine which nucleotide is present at a particular SNP position in the target sequence. As used herein, a "target sequence" can be any DNA sequence containing the SNP position(s) to be searched or queried.

[00171] As used herein, "a target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences containing a SNP position in which the sequence(s) is chosen based on a three-dimensional configuration that is formed upon the folding of the target motif. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzymatic active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, promoter sequences, hairpin structures, and inducible expression elements (protein binding sequences).

[00172] A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. An exemplary format for an output means is a display that depicts the presence or absence of specified nucleotides (alleles) at particular SNP positions of interest. Such presentation can provide a rapid, binary scoring system for many SNPs simultaneously.

[00173] EXAMPLES

[00174] Overview of Association Study

[00175] Endometriosis is a debilitating disease, characterized by the presence of endometrium (glands and stroma) at sites outside of the uterus, which is estimated to affect approximately 14% of all women. Endometrioses often leads to pain, local inflammation, scarring and decreased fertility. This example identifies genetic loci in the form of SNPs associated with endometriosis.

[00176] A Genome Wide Association study was performed to identify SNPs associated with Endometriosis. The Affymetrix 6.0 GeneChip technology platform was

employed in the study to ascertain genotypic information across a total of 906,600 individual SNPs. In all, 588 individuals diagnosed with Endometriosis were tested and compared to 1535 control individuals. All individuals were of Caucasian decent as determined by Principal Component Analysis implemented in the computer algorithm EIGENSTRAT (Nature Genetics 38, 904 - 909 (2006) Published online: 23 July 2006; | doi:10.1038/ng1847 Principal components analysis corrects for stratification in genome-wide association studies Alkes L Price1, 2, Nick J Patterson2, Robert M Plenge2, 3, Michael E Weinblatt3, Nancy A Shadick3 & David Reich1, 2.

[00177] A statistical software tool, PLINK, specifically developed to test for genetic association, was used to calculate p values for each SNP, enabling identification of a set of candidate SNPs that showed statistically significant association to Endometriosis. All members in the study (cases and controls), were collected from the same geographical region, with participants from different ethnic groups being analyzed separately.

[00178] Scanning the entire genome

[00179] The Affymetrix GeneChip 6.0 mapping array was used to scan the whole genome. Briefly, 250ng of genomic DNA was digested with either NspI or StyI restriction endonuclease and digested fragments were ligated to adapters that contained a universal sequence. The ligated products were then amplified using the polymerase chain reaction (PCR) to amplify fragments between 250-2000bp in length. The PCR products were purified and diluted to a standard concentration. Furthermore, the PCR products were then fragmented with a DNase enzyme to approximately 25-150bp in length. This fragmentation process further reduced the complexity of the genomic sample. The fragmented PCR products were then labeled with a biotin/streptavidin system and allowed to hybridize to the microarray. After hybridization the arrays were stained and non-specific binding was removed through a series of increasingly stringent washes. The genotypes were determined by fluorescent signal detection in an Affymetrix GCS 3000 scanner. Finally, genotypes were called using the BIRDSEED algorithm which is integrated into Affymetrix PowerTool software.

[00180] Selection of SNPs for quality and association

[00181] A SNP is a DNA sequence variation, occurring when a single nucleotide - adenine (A), thymine (T), cytosine (C) or guanine (G) - in the genome differs between individuals. A variation must occur in at least 1% of the population to be considered a SNP. Variations that occur in less than 1% of the population are, by definition considered to be mutations whether they cause disease or not. SNPs make up 90% of all human genetic variations, and occur every 300 to 1000 bases along the human genome. On average, two of every three SNPs substitute cytosine (C) with thymine (T). For the data to be considered valid for an individual chip, two internal quality control measures were used: SNP genotypes must have exceeded an overall call rate of >93% and any SNP that did not have at least a 96% call rate across all subjects was eliminated as having possible genotyping errors. SNPs that were monomorphic, having less than 1% apparent variation in both cases and controls, were also eliminated from analysis. In addition, SNPs that failed a Hardy-Weinberg equilibrium test in the control population only, using a p-value threshold of 0.001, were also eliminated. After filtering, about 640,000 SNPs were available for analysis. Genotypes were analyzed for significance using PLINK and LD blocks were identified using Haploview 4.1 software using the HapMap dataset release 22 as a reference.

[00182] GeneChip microarrays consist of small DNA fragments (referred to as probes), chemically synthesized at specific locations on a coated quartz surface. The precise location where each probe is synthesized is called a feature, and millions of features can be contained on one array. The probes which represent a sequence known to contain a human SNP were selected by Affymetrix based on reliability, sensitivity and specificity. In addition to these criteria, the probes were selected to cover the human genome at approximately equal intervals.

[00183] Identification of endometriosis affected individuals.

[00184] Individuals were determined to have endometriosis after medical record review by a single physician. In this study, only patients with visually confirmed disease (either by laparoscopy or other surgical intervention) were included as cases. The controls included individuals without prior history of endometriosis.

[00185] Endometriosis Associated SNPs

[00186] After sorting all remaining candidate SNPs by p-value, 663 SNPs with p-values less than or equal to 0.001 were selected as Primary SNPs.

[00187] Linkage Disequilibrium Blocks

[00188] As described above, the human genome includes extensive regions of linkage disequilibrium that undergo very minimal recombination. As a result, any SNP located within the same LD blocks as any of the primary SNPs listed in Table 1 contributes haplotype information for refined diagnostic discrimination and to the further identification of the causative mutation. Therefore, by virtue of linkage disequilibrium, a set of additional SNPs that have been determined to be in linkage disequilibrium with any of the primary SNPs are listed in Tables 2-528. Specifically, by using the Haploview software package in conjunction with the Caucasian population of the HapMap data set (release 22) LD blocks were identified around all SNPs listed in Table 1. Each of the Tables 2-528 represent SNPs located within the LD block(s) surrounding all SNPs from Table 1.

[00189] TABLES

Table 001 Anchor Group SNPs

Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
01	002	rs6675661	1	7144001	7.58E-04	0.6523	0.462	0.404	A	(SEQ ID No:001) tcacgccacccaggaa[A/G]ccttctgtgatctgtt
	002	rs6678950	1	7144629	5.41E-04	1.273	0.458	0.399	C	(SEQ ID No:002) aacgtcagatcctctc[C/G]cctgagaatatctgaa
	003	rs7534624	1	22367214	2.95E-04	1.291	0.433	0.372	C	(SEQ ID No:003) ctaatcctattttgca[C/G]ataaagaagcaggtta
	004	rs6678085	1	22381386	2.59E-04	1.293	0.425	0.364	T	(SEQ ID No:004) ccttcctgccttcttc[C/T]agcctacaatgacatc
	005	rs6667290	1	54389126	8.52E-04	0.7364	0.151	0.195	C	(SEQ ID No:005) aaatccctataagaga[A/C]gacacattcgctaaac
	006	rs11208013	1	62983488	7.40E-04	1.263	0.455	0.398	G	(SEQ ID No:006) tgactcttggaagaac[G/T]gttctgtggagaagag
	006	rs6656747	1	63002723	1.64E-04	1.297	0.462	0.398	T	(SEQ ID No:007) tttactggaatcgagg[C/T]agtggcaccaaactgt
	006	rs10889376	1	63004437	2.66E-04	1.287	0.464	0.402	G	(SEQ ID No:008) ctttcagctcacatac[C/G]gtaaacaagtgtccct
	007	rs2658407	1	63945397	4.06E-04	0.7589	0.249	0.304	C	(SEQ ID No:009) caattatcatagtaac[A/C]ataggaatgataagat
	008	rs12563550	1	66269176	7.56E-04	2.002	0.034	0.017	A	(SEQ ID No:010) tataagtgggggctaa[A/G]catttaatactcatga
02	009	rs12145172	1	67960263	9.98E-04	1.522	0.09	0.061	T	(SEQ ID No:011) tgacaaagcagaagaa[C/T]acagaaagaacaacag
	010	rs12132065	1	68819730	6.81E-04	0.6611	0.081	0.118	G	(SEQ ID No:012) tattctgcctatgaag[G/T]atgtaaacctttttat
	011	rs1417888	1	74597625	8.79E-04	0.6635	0.076	0.11	G	(SEQ ID No:013) agattcaatcgaatcc[A/G]cataactcccaaattt
	012	rs6693806	1	74634355	8.13E-04	0.7716	0.242	0.293	C	(SEQ ID No:014) agaaggctatttatta[C/T]gctctttttcttcctc
	013	rs2657206	1	75567126	9.90E-04	1.26	0.393	0.34	A	(SEQ ID No:015) tcacgtgctgtgatcc[A/G]catgaaaaagctccac
	014	rs10493605	1	77642912	5.01E-04	0.6675	0.087	0.125	T	(SEQ ID No:016) catttcacttctacaa[C/T]tccagagtggcatggg
	015	rs12405120	1	84329111	5.91E-04	0.7881	0.423	0.482	C	(SEQ ID No:017) agattctgcactttga[C/T]ggaaggagttagaaaa
	016	rs2791465	1	86681286	4.45E-04	1.336	0.234	0.186	C	(SEQ ID No:018) attatttagccattca[C/T]aataagccacgtgtgt
	017	rs11165689	1	96873214	5.71E-04	0.7552	0.212	0.263	G	(SEQ ID No:019) cacaagtgctcttcaa[A/G]tgagtcatttttatca
	018	rs11166276	1	99817827	6.14E-04	0.7946	0.444	0.501	G	(SEQ ID No:020) agtactttgatttcaa[A/G]tacttccattaaaaaa
03	018	rs6702619	1	99818834	2.08E-04	0.7797	0.441	0.503	A	(SEQ ID No:021) ggactgagagaatgga[A/C]aaactgatccacagga
	019	rs17016630	1	106390188	1.71E-04	0.6308	0.075	0.114	G	(SEQ ID No:022) cgtatgaacattcaaa[A/G]tggtaagtgataattt
	020	rs860792	1	119693142	9.41E-04	1.345	0.19	0.148	G	(SEQ ID No:023) acttcctgaagctgta[G/T]gaggaactggcacatc
	021	rs12134798	1	119916907	8.60E-04	1.325	0.228	0.182	T	(SEQ ID No:024) gaaacttgttcaccat[C/T]acactaatgattagtg
	022	rs7545253	1	151962605	2.41E-04	0.7745	0.425	0.488	C	(SEQ ID No:025) ctcagaatatagattg[C/T]attgattagatgtttg
	022	rs6427183	1	151973323	3.79E-04	0.7803	0.434	0.496	T	(SEQ ID No:026) tctgaacctatgattc[G/T]atctttactaagagac

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	023	rs11807461	1	152099392	6.20E-04	1.538	0.095	0.064	T	(SEQ ID No:027) tgacttctgggtgctc[A/T]cagttttctaagggaa
	024	rs5018567	1	152746942	8.83E-04	1.27	0.41	0.354	A	(SEQ ID No:028) caggacatggagatac[A/G]aaaaagctgagcacat
	025	rs9427097	1	152835307	1.61E-04	1.363	0.24	0.188	G	(SEQ ID No:029) aagtctgagacggaaa[G/T]gagacttttcattgaa
	026	rs10918985	1	167022584	1.62E-04	1.296	0.455	0.392	A	(SEQ ID No:030) gtggggctttagagaa[A/C]ggcttcatgttacaca
04	026	rs16828155	1	167051924	7.83E-04	1.32	0.234	0.188	C	(SEQ ID No:031) gaatataatcttctca[C/T]atcctggtatgtcaat
	027	rs12146094	1	168319161	9.27E-04	0.6629	0.071	0.104	G	(SEQ ID No:032) caccacagaataatgc[A/G]agtccaagtgctgaat
	027	rs12144057	1	168323644	5.95E-04	0.5307	0.03	0.055	C	(SEQ ID No:033) tgtcaactactatatc[C/T]atgaggaatactatca
	027	rs12122794	1	168334087	4.23E-04	0.5227	0.03	0.056	T	(SEQ ID No:034) gtatttctgtaaatga[G/T]agtggcattaagatct
	028	rs10800570	1	169144030	6.56E-04	1.372	0.168	0.129	G	(SEQ ID No:035) atttatacagctttca[G/T]acattatggtgctatg
	029	rs9425433	1	172131503	8.69E-04	1.402	0.142	0.106	A	(SEQ ID No:036) ctgttattttaaatga[A/G]agaggctggtaacaac
	030	rs1951627	1	172158440	5.23E-04	1.303	0.283	0.233	T	(SEQ ID No:037) tgtgttacaaaaagca[C/T]agcatactataaacac
	031	rs10912722	1	172283397	2.56E-04	1.375	0.205	0.158	G	(SEQ ID No:038) gatactgttctctttc[A/G]aataggatccatttt
	032	rs12564848	1	172542992	9.58E-04	1.417	0.133	0.097	C	(SEQ ID No:039) tttgtacttgtaacta[C/T]gacattattcggtcaa
	032	rs12565430	1	172667160	7.53E-04	1.436	0.13	0.095	T	(SEQ ID No:040) atttcaacgtttctta[C/T]atttcccatggcttac
05	033	rs4610965	1	176038518	5.27E-04	0.7717	0.283	0.339	T	(SEQ ID No:041) ccaccaactgactgtg[C/T]agccttggctggtcac
	034	rs12058015	1	182326904	5.23E-04	0.7264	0.149	0.195	A	(SEQ ID No:042) gggtaggaaggattca[A/G]gacaatgactcaagct
	N/A	rs413713	1	196204297	4.26E-04	0.7749	0.325	0.383	C	(SEQ ID No:043) tctgccctcttataaa[C/T]tatcatgtgttacctg
	035	rs1927247	1	196583570	6.27E-05	0.6424	0.1	0.148	G	(SEQ ID No:044) atgccaggaggcccca[A/G]atgagcttcacctagc
	036	rs2821218	1	201805093	7.45E-04	0.7731	0.282	0.337	A	(SEQ ID No:045) attgaatgttcttccc[A/G]aacatcacataggcac
	036	rs2821217	1	201805109	7.23E-04	0.7727	0.282	0.337	T	(SEQ ID No:046) tgggaagaacattcaa[G/T]agtagacaaatggcca
	037	rs2271424	1	202669934	4.67E-04	0.7099	0.128	0.172	G	(SEQ ID No:047) aactgtagcaaaaagg[A/G]atgcaatcagatatcc
	037	rs3747634	1	202677686	7.22E-04	0.7167	0.13	0.173	C	(SEQ ID No:048) agttgtgaagatgaaa[C/T]gccataaccaacatta
	037	rs2999494	1	202683647	9.25E-04	0.7463	0.167	0.211	G	(SEQ ID No:049) cacccagctgaaacac[A/G]gggtgcatccaggctg
	038	rs898388	1	202766880	8.97E-04	0.7403	0.165	0.211	T	(SEQ ID No:050) ttcttgacctctaaca[C/T]tctaaatcccacccac
06	039	rs3789044	1	202855724	8.67E-04	0.7529	0.189	0.237	T	(SEQ ID No:051) aggcttctcgtggccc[C/T]actcttgctagcttgg
	N/A	rs11118965	1	206208826	4.89E-04	1.282	0.352	0.297	A	(SEQ ID No:052) ttctctcttggtagaa[A/G]gtggggcctgaataaa
	040	rs7544212	1	226858407	7.20E-04	0.6526	0.075	0.111	C	(SEQ ID No:053) ttgatctttgtagcca[A/C]tgataatgatttcaaa
	041	rs12028618	1	231923474	3.52E-04	0.6133	0.06	0.094	C	(SEQ ID No:054) tgggcatatgaataaa[C/G]agaagagcctgatttg

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	N/A	rs6737578	2	2227534	3.67E-04	1.842	0.049	0.027	A	(SEQ ID No:055) tcagtcaccctatgga[A/G]gtatcgtgtcttgcca
	042	rs6738683	2	3720031	5.57E-04	1.292	0.316	0.263	A	(SEQ ID No:056) ttcactttcaacagac[A/G]aatatcttctatgcca
	043	rs6724621	2	7330593	9.23E-04	1.257	0.523	0.466	T	(SEQ ID No:057) aaagtgatttgtccta[C/T]cgcgcagaaaaacaat
	043	rs10197609	2	7333686	6.42E-04	1.266	0.53	0.471	A	(SEQ ID No:058) ggtcattcccagcata[A/T]gcatttcaccttcact
	043	rs10205728	2	7333712	3.95E-04	0.7682	0.291	0.348	T	(SEQ ID No:059) aatgacctggataata[G/T]ctgggtgaaagaaaaa
	043	rs10200485	2	7334345	7.24E-04	1.266	0.53	0.471	A	(SEQ ID No:060) catcttctatgatgag[A/G]actccctttattatg
07	044	rs3111424	2	8404110	2.34E-04	0.6719	0.106	0.15	C	(SEQ ID No:061) caccttctcagagaaa[C/T]gagctttggctttggg
	045	rs746335	2	12213918	1.95E-04	1.291	0.508	0.444	T	(SEQ ID No:062) gtcaaagaaaatagag[G/T]cgaaagatcaaaatga
	045	rs6733006	2	12233521	3.41E-04	1.278	0.509	0.448	A	(SEQ ID No:063) cctgaagagggttaag[A/G]aagagtgatcagattt
	046	rs13420742	2	18947148	6.47E-04	1.82	0.048	0.027	A	(SEQ ID No:064) aactggatttgagcag[A/G]aacatgtaaaaaagtg
	046	rs12993616	2	18968899	4.07E-04	1.877	0.047	0.025	T	(SEQ ID No:065) caggtctgttgtatag[C/T]ccacctcaatgtggag
	047	rs12619827	2	20619380	1.92E-04	1.465	0.143	0.103	T	(SEQ ID No:066) accatagttctgaata[C/T]gcttagatctttattt
	047	rs1435849	2	20626094	3.89E-04	1.426	0.145	0.107	T	(SEQ ID No:067) gtttttctttctctca[C/T]acacagctcaacacaa
	048	rs6714261	2	34862152	3.04E-04	0.7531	0.247	0.303	C	(SEQ ID No:068) caatctccagaagaaa[C/T]gaagaccaaaagtgtt
	049	rs2034273	2	43107063	3.14E-04	0.74	0.211	0.265	A	(SEQ ID No:069) agacagactggcaaaa[A/G]ggggtgacattcctat
	050	rs11889205	2	61301997	6.23E-04	0.6906	0.1	0.138	A	(SEQ ID No:070) actaggagactagcta[A/G]gaactcttttcctccc
08	051	rs2028884	2	63665652	3.48E-04	1.415	0.158	0.117	C	(SEQ ID No:071) ttaatcatgatcatta[C/T]gtagtcaagttgcttt
	052	rs1004630	2	76357764	1.65E-04	1.295	0.507	0.443	G	(SEQ ID No:072) actgtgttttcacttc[A/G]atgctcccagaattct
	053	rs12991550	2	76377756	8.34E-04	1.26	0.437	0.381	A	(SEQ ID No:073) ccaaattctgatagta[A/T]aacagtccaagttatc
	054	rs4852403	2	76435416	1.68E-04	1.297	0.489	0.424	T	(SEQ ID No:074) taatgtatataactta[C/T]agagcctgtctatcta
	054	rs17515858	2	76439840	5.78E-05	0.7095	0.196	0.255	G	(SEQ ID No:075) aacagaaaatggatcc[A/G]cctgaggtaaggggat
	055	rs6547260	2	79779477	4.22E-05	0.5223	0.05	0.091	A	(SEQ ID No:076) aacagaaaattaagat[A/C]agattggctaacaaga
	056	rs994984	2	79863883	4.15E-04	0.7472	0.203	0.254	G	(SEQ ID No:077) tctaattaactagaaa[A/G]ctctctaagactctga
	057	rs10166591	2	79887715	4.23E-04	0.7424	0.191	0.242	T	(SEQ ID No:078) ctcttacacttccagg[C/T]caccttttctttactgt
	057	rs868032	2	79888078	9.44E-04	0.6602	0.073	0.107	G	(SEQ ID No:079) cttaaaattaagatgc[A/G]gaaatatgtttttaat
	058	rs12470539	2	81899633	8.17E-04	0.6913	0.101	0.139	T	(SEQ ID No:080) cccttcactttaatca[G/T]gcaacccttttatagaa
09	059	rs315920	2	113589489	4.90E-04	0.7373	0.176	0.225	A	(SEQ ID No:081) aggcatcaggaatgga[A/G]gagcaagatattgagg
	060	rs17452532	2	115533084	1.84E-04	0.6726	0.106	0.15	G	(SEQ ID No:082) gattaccaagatagac[A/G]cgaatggattcctagt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	060	rs1509742	2	115538756	1.05E-04	0.6708	0.114	0.16	C	(SEQ ID No:083) gcaacctcaccctcac[A/C]gaatcttacttcaatg
	061	rs10460462	2	122316276	9.06E-04	0.656	0.071	0.105	T	(SEQ ID No:084) cttaatatttggtaaa[G/T]gcaagatacattgtag
	061	rs6724570	2	122316381	8.15E-04	0.6537	0.071	0.105	T	(SEQ ID No:085) tgaatggtgaaaatac[C/T]aatggcgatgacaatg
	061	rs10460453	2	122317772	9.06E-04	0.656	0.071	0.105	G	(SEQ ID No:086) tgctgatggatcatga[A/G]ggatggtaagcagaaa
	062	rs13029963	2	122601190	8.05E-04	0.6931	0.102	0.141	A	(SEQ ID No:087) ttgtgttaagtaacaa[A/G]gaggtgactgttaaca
	063	rs974625	2	133362363	3.61E-04	1.284	0.436	0.376	T	(SEQ ID No:088) aaatgagaaattaaac[C/T]agtgataaccaacttt
	064	rs2966393	2	140612165	5.58E-04	0.7606	0.223	0.274	A	(SEQ ID No:089) tttcagatctgataaa[A/G]cccatgacattgtgaa
	065	rs2052807	2	145012733	7.21E-04	0.7872	0.346	0.402	G	(SEQ ID No:090) aaaaggtaaacaatga[G/T]cttatgtctattaggt
10	066	rs2444264	2	152019174	5.63E-04	1.274	0.445	0.386	G	(SEQ ID No:091) ctcagctttgtatctc[G/T]gacttgttcaatgtta
	067	rs13009580	2	153088751	7.24E-04	0.5231	0.027	0.051	A	(SEQ ID No:092) ctgcttagtcttccag[A/G]ccacctctttcaactg
	068	rs1900833	2	168292227	4.27E-04	0.7077	0.132	0.177	A	(SEQ ID No:093) cactgtttagcctacc[A/G]cagtccatcttctgat
	069	rs10497642	2	184536677	3.27E-04	1.454	0.144	0.104	C	(SEQ ID No:094) agaggtcattgaaata[C/T]aagtgattattgatag
	070	rs17508671	2	185200092	3.16E-04	0.7016	0.131	0.177	C	(SEQ ID No:095) tggcattattccagac[C/T]agtttgctaacattaa
	070	rs17430621	2	185200714	5.63E-04	0.7084	0.13	0.175	A	(SEQ ID No:096) tctaatgtctcttagc[A/T]acctatgcaatctaaa
	071	rs10497657	2	185354085	1.92E-04	0.5883	0.053	0.086	G	(SEQ ID No:097) gctcactgatatttaa[A/G]tcttgccaatcaaaat
	071	rs10497661	2	185477444	1.56E-04	0.5819	0.052	0.086	C	(SEQ ID No:098) tataattaaggtctaa[C/T]gccatgccacaattga
	071	rs1114248	2	185482384	2.19E-04	0.589	0.053	0.086	A	(SEQ ID No:099) aaatccaattgacaaa[A/C]taacacaaacaaaata
	072	rs17509873	2	185505653	2.00E-04	0.5831	0.051	0.084	C	(SEQ ID No:100) tttccctaatggttca[C/T]gttattatgcaattgt
11	N/A	rs4674015	2	200962416	9.95E-04	0.776	0.262	0.314	T	(SEQ ID No:101) acatgctttcagtaaa[C/T]gttacttatgattctt
	N/A	rs6722649	2	201020908	9.51E-04	0.7346	0.145	0.187	T	(SEQ ID No:102) ctccagctggccaaac[C/T]cttgatttttgtcttc
	073	rs10190966	2	203501061	9.11E-04	1.656	0.065	0.04	G	(SEQ ID No:103) ggttgatggttacaaa[A/G]gtacagctaggacaga
	073	rs12616799	2	203520092	3.02E-04	1.732	0.064	0.038	A	(SEQ ID No:104) cctttgggtatacaca[A/G]agtaatgagattgctg
	073	rs7603031	2	203569111	7.75E-04	1.681	0.061	0.037	C	(SEQ ID No:105) cagagaggattacaaa[C/G]aaggtgcttcatatta
	073	rs6733394	2	203613420	5.61E-04	1.699	0.062	0.037	C	(SEQ ID No:106) caaagacaccactaaa[A/C]attttcttcaggcgaa
	N/A	rs4673241	2	203629515	6.46E-04	1.705	0.06	0.036	A	(SEQ ID No:107) tgtcactttactgaga[A/G]caactaggttttactt
	074	rs6730171	2	204140849	2.16E-04	0.7466	0.256	0.315	C	(SEQ ID No:108) catcaatcatcattac[C/T]gcacagcctgtctgca
	074	rs7609267	2	204148227	2.52E-04	0.7467	0.251	0.31	C	(SEQ ID No:109) taccaatgactgaaaa[C/T]gtgggccacacacaca
	074	rs7595502	2	204148326	1.70E-04	0.7412	0.25	0.31	T	(SEQ ID No:110) aaattatacgtcacct[C/T]aatactctggggaaaa

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
12	074	rs16839922	2	204148590	2.62E-04	0.7474	0.251	0.31	G	(SEQ ID No:111) tatgtgccatgccagg[G/T]agatatgttccacacc
	074	rs13032082	2	204149750	1.72E-04	0.7419	0.25	0.31	A	(SEQ ID No:112) cagccactccattatc[A/T]caaagaagggtttaca
	074	rs13032680	2	204149802	2.86E-04	0.7488	0.251	0.31	T	(SEQ ID No:113) acacttttaatacaa[G/T]ggaatagcaaccaggt
	N/A	rs4365462	2	215067149	9.72E-04	0.3984	0.012	0.029	T	(SEQ ID No:114) cagtgtttcctgttta[G/T]gtgggaataaagttat
	075	rs1898536	2	216005476	8.40E-04	0.7621	0.213	0.263	C	(SEQ ID No:115) tagattgtaaacacta[C/T]ggacccttgcctcttg
	076	rs17740964	3	3821581	7.47E-04	1.77	0.052	0.03	C	(SEQ ID No:116) tggctccggaatacaa[C/T]ggcagactaatttatg
	077	rs7649754	3	3852049	9.93E-04	1.427	0.125	0.091	G	(SEQ ID No:117) tgacagtgaaaaatag[A/G]atgctatcatataggt
	078	rs778041	3	10247181	1.50E-04	1.308	0.413	0.35	A	(SEQ ID No:118) atttaaccttcaataa[A/C]cctgtcagatgccagg
	079	rs708035	3	10251163	7.23E-05	1.323	0.413	0.347	T	(SEQ ID No:119) acttactcctcagtga[A/T]attccaagcagcaccg
	080	rs982953	3	24486257	4.83E-04	0.7906	0.444	0.503	G	(SEQ ID No:120) gcaacaaactatgagc[A/G]cgtggtaaagagtgag
13	N/A	rs2196427	3	24508282	3.95E-04	0.7863	0.435	0.495	C	(SEQ ID No:121) agttccagaagcattg[C/T]cagtgctaagagtgaa
	081	rs4858119	3	24514110	4.08E-04	0.7835	0.388	0.448	A	(SEQ ID No:122) tcattcattttcttac[A/C]ccagtagttgctaaat
	N/A	rs6788339	3	24536535	7.60E-04	0.7926	0.396	0.453	G	(SEQ ID No:123) taactagaagtgagaa[A/G]tattggttcaagtggt
	082	rs6763146	3	27627430	6.34E-04	0.7816	0.327	0.383	T	(SEQ ID No:124) tgatgccttttgggta[C/T]gtagttgatgtgaaac
	083	rs16756	3	31515992	9.26E-04	0.7447	0.173	0.219	G	(SEQ ID No:125) cctgggacaaaaggac[C/G]aaaaacactcttctgt
	083	rs4390968	3	31526784	4.85E-04	0.7431	0.192	0.243	A	(SEQ ID No:126) gtgatcattcttctac[A/G]ctcacaacgctatatg
	084	rs28350	3	42393450	7.60E-04	1.332	0.218	0.173	T	(SEQ ID No:127) ccttgcttttgctgaa[C/T]gatttaatatgccatt
	085	rs9857128	3	59249029	9.03E-04	0.7916	0.363	0.419	T	(SEQ ID No:128) cctatctaaagtagac[C/T]cctatcctagtaattg
	085	rs9819913	3	59249498	7.95E-04	0.7897	0.36	0.415	G	(SEQ ID No:129) agcagtacaaactcaa[A/G]cagttctggttggttg
	N/A	rs9845353	3	59675947	4.77E-04	1.391	0.167	0.126	C	(SEQ ID No:130) cccagtagaggacaga[C/T]aggtacaactgaagcc
14	086	rs7373248	3	59686057	4.11E-04	1.375	0.189	0.145	A	(SEQ ID No:131) gtactgatgacattcc[A/G]aagaagattctcccgt
	087	rs780369	3	59737850	3.99E-05	1.448	0.207	0.153	A	(SEQ ID No:132) gcaactacaagtgcac[A/G]gggcctagacatggac
	088	rs10212430	3	96259849	1.07E-05	0.7092	0.308	0.386	A	(SEQ ID No:133) acaagttgcttaccac[A/G]aagaatgtagtgaaga
	089	rs9871235	3	108977035	4.23E-04	1.277	0.425	0.366	G	(SEQ ID No:134) agtattttgttagtta[A/G]gagatccaatacttta
	N/A	rs16823111	3	115909138	7.65E-04	0.541	0.032	0.057	A	(SEQ ID No:135) aggtcagggtccttca[A/T]gtggtagctttgagtt
	090	rs16837189	3	127368251	6.58E-04	1.317	0.242	0.195	C	(SEQ ID No:136) agtgggtatgagtgaa[C/T]gatttacttagtacat
	N/A	rs16844437	3	138238243	6.18E-04	1.551	0.088	0.058	G	(SEQ ID No:137) gcaaaattgaggcaga[A/G]tcataacagacagtat
	091	rs4683495	3	141611217	9.64E-04	1.262	0.514	0.456	A	(SEQ ID No:138) tggttacttactgaca[A/G]tatattgtgttgcttt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	092	rs347338	3	141635511	4.60E-04	0.7867	0.424	0.484	T	(SEQ ID No:139) acatgtgtaagaggcc[C/T]ggcaaagtgcctgtta
	092	rs347341	3	141638888	5.05E-04	0.7885	0.419	0.478	G	(SEQ ID No:140) gaggctgttattaacc[A/G]aacctcctggctgggc
15	092	rs10804674	3	141642763	9.88E-04	1.274	0.331	0.279	C	(SEQ ID No:141) accttcagtaagtgac[C/T]cactctctccccagtc
	N/A	rs875870	3	142350628	7.96E-04	1.466	0.111	0.079	G	(SEQ ID No:142) tctgggtaaggactgg[A/G]atagcattcattcagc
	N/A	rs2581625	3	144116650	4.39E-04	1.272	0.443	0.385	G	(SEQ ID No:143) aaaagcaaagccaaca[A/G]aactctccagtctatt
	093	rs800078	3	145832701	4.34E-04	0.781	0.411	0.472	A	(SEQ ID No:144) attctgggcagttaga[A/T]catcaataggtgagta
	094	rs16858222	3	147483271	7.01E-04	1.55	0.083	0.055	A	(SEQ ID No:145) atgaaggacttacgca[A/T]ctattttggagattca
	094	rs7647333	3	147534580	9.05E-04	1.531	0.083	0.056	A	(SEQ ID No:146) tccctgtgtcacttcc[A/G]atgcctcctgaataac
	095	rs13083177	3	163769051	6.29E-04	0.5996	0.048	0.077	C	(SEQ ID No:147) ttttgaggagaaaaaa[C/T]ttagtacagagcaaat
	096	rs10460797	3	173607677	4.32E-04	0.6624	0.084	0.122	C	(SEQ ID No:148) caacactttacttaga[C/T]gctttgcccaggttac
	097	rs12631737	3	173629596	4.14E-04	0.6572	0.08	0.117	A	(SEQ ID No:149) agagaattctcaatga[A/G]cagcttcttattccct
	097	rs507759	3	173636035	5.24E-04	0.7544	0.215	0.267	C	(SEQ ID No:150) caacagcaaaacctta[C/T]agattatgtacatatg
16	098	rs7692006	4	1481157	3.10E-04	1.286	0.423	0.363	C	(SEQ ID No:151) tacagtgactaaagat[C/G]agtggttgccgggctc
	099	rs1393865	4	5396559	5.94E-04	1.336	0.218	0.172	T	(SEQ ID No:152) aatcatgactacataa[C/T]ggagtagaatgcaaaa
	099	rs1393867	4	5396850	7.26E-04	1.337	0.204	0.161	C	(SEQ ID No:153) tgttcactgttttgaa[C/T]aaagcactgatctaaa
	099	rs17183	4	5398944	4.98E-04	1.349	0.228	0.18	C	(SEQ ID No:154) ctcttacattccttca[C/T]gtacactgctattaaa
	099	rs10034982	4	5401251	4.46E-04	1.336	0.231	0.184	G	(SEQ ID No:155) gcggcagcagctgtaa[G/T]caggcaacttgggggt
	100	rs11729138	4	11206417	2.53E-04	0.6304	0.07	0.106	G	(SEQ ID No:156) gtgatactctgtcaca[A/G]aattaacaacagattg
	100	rs16884475	4	11215023	4.76E-04	0.6444	0.071	0.105	A	(SEQ ID No:157) ctacacgtttcactca[A/G]cttctgcatttgtgaa
	100	rs41489550	4	11215053	9.56E-04	0.6616	0.071	0.103	G	(SEQ ID No:158) tgaatgaatgaatgca[C/G]aaatccccatcatttc
	100	rs41411346	4	11215354	4.76E-04	0.6444	0.071	0.105	A	(SEQ ID No:159) aggaggctagtgtcaa[A/G]tagcgctgccaagtgt
	100	rs10488990	4	11216599	7.27E-04	0.6549	0.072	0.105	G	(SEQ ID No:160) tttcctgcaatgaaga[C/G]agattgattcagaaat
17	101	rs10938824	4	20640494	5.85E-04	0.7747	0.3	0.356	C	(SEQ ID No:161) tgtaggagcataaagg[C/T]caacatgggccactca
	101	rs10032561	4	20665911	1.69E-04	0.7555	0.298	0.36	G	(SEQ ID No:162) catcatatgtaattac[A/G]ggagtataaattaaaa
	102	rs7680373	4	20697260	5.81E-04	0.7829	0.375	0.434	G	(SEQ ID No:163) atacttcatgagaaaa[A/G]gtacagtaagcagccc
	103	rs16870493	4	20766290	8.69E-04	0.72	0.135	0.178	C	(SEQ ID No:164) ttcattagttaataaa[C/G]agctattggacgttct
	N/A	rs7688470	4	21781096	9.94E-04	0.7483	0.187	0.235	T	(SEQ ID No:165) ttttaaggagtcacaa[C/T]tcaagagaagttcaca
	104	rs184360	4	24971199	8.41E-04	1.311	0.257	0.208	C	(SEQ ID No:166) ggcagcatatgagtta[C/T]gaactgcttctttatc

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	104	rs188819	4	24971216	1.81E-04	1.351	0.264	0.21	G	(SEQ ID No:167) ctctcatgaatctgaa[C/G]ggcagcatatgagtta
	105	rs4697572	4	25055885	3.75E-04	1.308	0.303	0.249	T	(SEQ ID No:168) aagatggcagagccaa[C/T]tggaaaccagatcacg
	106	rs7665474	4	27233504	4.99E-04	0.7736	0.298	0.355	A	(SEQ ID No:169) gcccatgaatacccaa[A/T]gtttatcttccactta
	107	rs2889346	4	36706094	9.33E-04	1.264	0.37	0.317	G	(SEQ ID No:170) cagagaatacaaggta[A/G]aaaaaccagctgagct
18	108	rs4645195	4	46780074	7.94E-05	0.7595	0.424	0.492	A	(SEQ ID No:171) gtctaaaatatgtaat[A/G]agaagcataggtcagt
	109	rs2354946	4	48576428	1.22E-04	1.554	0.117	0.078	G	(SEQ ID No:172) gaggacaccacaggcc[A/G]aaagctatcccaagac
	109	rs2572336	4	48628367	6.18E-05	1.586	0.121	0.08	T	(SEQ ID No:173) tctagcaaagctgagc[C/T]ctctgccggcaaaagc
	110	rs7683984	4	53829489	3.36E-04	0.7763	0.366	0.427	C	(SEQ ID No:174) ctctgacactttatgc[C/T]gagttgctaccatttc
	111	rs1481823	4	53932766	9.99E-04	0.7278	0.135	0.176	G	(SEQ ID No:175) ctgtcttttcttatga[A/G]agtccaaacccctctc
	112	rs10015634	4	57057584	8.30E-04	1.278	0.329	0.277	T	(SEQ ID No:176) tacactctttaggcca[C/T]tctataatgatagata
	113	rs1513534	4	60118350	4.05E-05	1.355	0.327	0.264	C	(SEQ ID No:177) gcatatgatgatcctg[C/T]atgaaggagaatcaac
	114	rs4314260	4	72497294	9.58E-04	1.356	0.182	0.141	C	(SEQ ID No:178) tgtcctagcacagaaa[C/T]ggagtatgaattttgt
	114	rs4130912	4	72541637	3.54E-04	1.395	0.177	0.134	T	(SEQ ID No:179) tcaggctacaaataga[C/T]atgggtgctgggtaga
	115	rs4693809	4	82199990	9.54E-04	1.255	0.491	0.435	A	(SEQ ID No:180) aataaaatgtaggtat[A/G]aaaagtagaagagtct
19	116	rs11729944	4	83754904	2.12E-04	1.582	0.091	0.06	A	(SEQ ID No:181) atagcaactttacaca[A/C]aaatggggcctgattt
	N/A	rs17013995	4	89446118	7.25E-04	0.6091	0.051	0.081	C	(SEQ ID No:182) ttgtcttactgatgga[C/T]gctttttgatgttttc
	117	rs4693352	4	95050594	5.50E-04	0.7761	0.304	0.36	C	(SEQ ID No:183) gtaaaacccaaagcta[C/T]acaaaccttagaagaa
	N/A	rs3017684	4	105693133	9.68E-04	0.7867	0.361	0.418	C	(SEQ ID No:184) ttttccactcaaaata[C/T]gcaagagttctgttac
	N/A	rs1425261	4	107802630	3.52E-04	0.5936	0.05	0.081	G	(SEQ ID No:185) tgattaagaaacactg[A/G]caattgaaagggaata
	118	rs2553207	4	107829144	5.19E-04	0.6356	0.064	0.097	C	(SEQ ID No:186) atctatgtgagtcatg[A/C]aaggaaatagaggaga
	N/A	rs966112	4	117115399	5.04E-04	1.284	0.391	0.333	C	(SEQ ID No:187) tagagatgactgaatg[C/T]caaaatagaaggtcaa
	119	rs9790431	4	121045411	2.16E-04	1.304	0.376	0.316	A	(SEQ ID No:188) tgccaacaccatagaa[A/G]gtacttacacaaacct
	120	rs13134800	4	121119730	3.56E-04	1.292	0.349	0.294	T	(SEQ ID No:189) gcattatcccatgacc[C/T]ccaaacagaacacaca
	121	rs1364968	4	129873577	2.07E-05	1.41	0.255	0.195	T	(SEQ ID No:190) gactcataaaacccac[C/T]gtaaggacaatgttaa
20	122	rs1355962	4	130380301	9.42E-04	0.7566	0.209	0.259	A	(SEQ ID No:191) gaagagtcatactaac[A/G]catctaaagtctatgc
	123	rs6827999	4	134923358	1.07E-04	0.755	0.365	0.432	T	(SEQ ID No:192) tcctttgtaaatgaaa[C/T]gacagtgtagatatat
	124	rs12649565	4	142233285	9.86E-04	0.7662	0.244	0.297	C	(SEQ ID No:193) tttggaattagaagac[C/T]ctgcattaccatttac
	125	rs3936168	4	145249337	8.83E-04	1.483	0.1	0.069	C	(SEQ ID No:194) ttttgtagcattacta[C/T]gatctgaattccatac

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	126	rs1968783	4	156974416	5.09E-04	1.426	0.14	0.102	T	(SEQ ID No:195) aggcagttgttttgtc[C/T]aatcatttgggtctca
	127	rs10857287	4	157043230	7.00E-04	1.416	0.14	0.103	T	(SEQ ID No:196) tactcactaagaacta[C/T]aggcagaaacagcact
	128	rs7438099	4	162484222	2.68E-04	0.7643	0.291	0.349	T	(SEQ ID No:197) ccagatgggtctgtta[C/T]gatttcagccaccttg
	128	rs7689071	4	162486652	4.49E-04	0.7706	0.29	0.346	A	(SEQ ID No:198) gcagctcattgcagta[A/G]gacagatttaaacaac
	129	rs10007083	4	162491709	9.40E-06	0.7243	0.325	0.4	A	(SEQ ID No:199) tccctgcacttcacag[A/G]ctattacgtgggacat
	130	rs7663974	4	164003608	8.96E-04	1.265	0.393	0.338	T	(SEQ ID No:200) aactcagcctccatac[A/T]caagtgaggcagaaaa
21	130	rs7685750	4	164003648	9.04E-04	0.7949	0.456	0.514	T	(SEQ ID No:201) tttatattattgatca[C/T]gtaaataaaaatgcat
	131	rs11728993	4	176421742	5.76E-04	0.7682	0.262	0.316	C	(SEQ ID No:202) gatccaaaattactca[C/T]atatttggcagttgtg
	132	rs6844359	4	177467166	3.18E-04	1.32	0.298	0.243	C	(SEQ ID No:203) gcttattagtcaaaca[C/T]catttttatcatagct
	132	rs7693236	4	177468245	2.13E-04	1.329	0.298	0.242	G	(SEQ ID No:204) acataaggtgcttagg[A/G]aaaaaagtgtaaccat
	132	rs723820	4	177471900	5.68E-04	1.305	0.296	0.243	C	(SEQ ID No:205) aacctaggttgtaatt[C/T]gtatcactgcattttc
	132	rs723819	4	177471940	3.64E-04	1.315	0.299	0.245	G	(SEQ ID No:206) atatctctaatatgct[A/G]tcgtgaacatctggtc
	132	rs9992247	4	177472280	3.23E-04	1.322	0.293	0.238	G	(SEQ ID No:207) ttattgtgcatcgtta[A/G]gagcagaaccagatag
	132	rs6811405	4	177472794	3.41E-04	1.32	0.292	0.238	T	(SEQ ID No:208) aatgtttttaaactac[C/T]gcaacaggcctgagat
	N/A	rs2061148	4	180543912	3.28E-04	0.779	0.408	0.47	G	(SEQ ID No:209) ggcaccagcatctgaa[A/G]ttaaatgtgataacat
	133	rs903083	5	4145209	8.67E-04	0.7328	0.15	0.193	T	(SEQ ID No:210) actccagccttgcaca[C/T]ctggtcttttcccaca
22	134	rs350430	5	51925473	5.11E-04	1.343	0.215	0.17	G	(SEQ ID No:211) gtgaaagaagacagac[A/G]gaaagacttcatattg
	135	rs10471407	5	54377104	8.22E-05	0.4817	0.029	0.058	C	(SEQ ID No:212) tctcatgttgaaatcc[A/C]agctcttaaggacaaa
	136	rs831790	5	56385455	6.73E-04	1.259	0.454	0.397	A	(SEQ ID No:213) attggcaaatactaca[A/G]ccaaaatagccctcct
	136	rs831793	5	56385936	9.02E-04	1.253	0.452	0.397	G	(SEQ ID No:214) cagtacatttattgca[A/G]gtttattttatgctta
	136	rs10940524	5	56386623	5.20E-04	0.7897	0.43	0.489	A	(SEQ ID No:215) gtagggaagacaaaaa[A/G]ggtatgaaagttagag
	N/A	rs9292195	5	58511874	6.90E-04	0.7032	0.116	0.157	A	(SEQ ID No:216) atgttactttcaagtc[A/G]cttcccattctggttc
	137	rs1019457	5	71798910	3.47E-04	1.318	0.29	0.236	A	(SEQ ID No:217) ctatttctataaccaa[A/C]tcttatggataatagc
	137	rs246571	5	71840906	2.77E-04	1.353	0.223	0.175	T	(SEQ ID No:218) acccaaggaacaagac[G/T]ctcatggtaccaactc
	137	rs246562	5	71846002	6.26E-04	1.325	0.224	0.179	A	(SEQ ID No:219) atcacaactggcttgc[A/G]gacttaaccaccaagg
	137	rs246579	5	71852774	5.55E-05	1.399	0.226	0.173	T	(SEQ ID No:220) tcctagaaccctgaga[C/T]atttatgtgaaaaagt
23	137	rs33417	5	71860142	1.02E-04	1.375	0.232	0.18	C	(SEQ ID No:221) attgtgtttgtattca[C/T]aggctattgtagctta
	137	rs453701	5	71869795	4.57E-06	1.438	0.276	0.209	G	(SEQ ID No:222) ttatggaccatgtcaa[A/G]ggattattttcttcat

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	137	rs406813	5	71873362	4.43E-05	1.377	0.274	0.215	A	(SEQ ID No:223) gagctgccaatcacct[A/G]aacaatcaccttctaa
	138	rs427274	5	71873523	4.25E-05	1.381	0.272	0.213	A	(SEQ ID No:224) gaaagtgaagggaatg[A/G]aagtttgtgctgagcc
	138	rs420024	5	71880674	2.49E-05	1.397	0.271	0.21	G	(SEQ ID No:225) tcttaaacaattcaac[G/T]aagcaagtgttataaa
	138	rs417407	5	71880756	1.45E-05	1.412	0.276	0.213	C	(SEQ ID No:226) caaaataccatagctc[C/T]cttaaccattctttac
	138	rs33419	5	71882477	1.92E-05	1.396	0.286	0.223	G	(SEQ ID No:227) gtagccccagcccaaa[A/G]agaagagcaaactgga
	139	rs1232834	5	71886316	3.53E-05	1.396	0.259	0.201	G	(SEQ ID No:228) tgaagcttatttgggc[A/G]cagggtgtttgttgtt
	140	rs17164450	5	71990682	5.73E-04	1.399	0.156	0.116	A	(SEQ ID No:229) tccaaggaccttgttc[A/G]aaggtaagactcatgc
	141	rs1220627	5	72906819	3.55E-04	0.7445	0.2	0.251	C	(SEQ ID No:230) aaattgccgagtaaca[C/T]gatttcagtaacatgt
24	141	rs343113	5	72915289	9.34E-04	0.7606	0.199	0.246	C	(SEQ ID No:231) acgtggtgctaaatga[C/G]atggagaccaatcagg
	142	rs17633565	5	72986653	4.08E-04	0.7483	0.21	0.262	C	(SEQ ID No:232) atggtgacaattaaca[C/T]tgaagtgaataggcca
	142	rs16870666	5	73003705	3.02E-04	0.743	0.205	0.257	C	(SEQ ID No:233) caataacactcttaat[C/T]acacatttccttttag
	142	rs16870681	5	73016593	7.85E-04	0.7595	0.213	0.263	T	(SEQ ID No:234) ttgaactagacagtaa[C/T]gctcagtgtgttgttt
	142	rs17552213	5	73017626	9.11E-04	0.76	0.208	0.256	C	(SEQ ID No:235) gtcttcctccagagaa[C/G]tatgtgtcatgtgtag
	142	rs7703624	5	73024193	1.53E-04	0.7452	0.242	0.299	G	(SEQ ID No:236) aaaaggctgaatagga[G/T]agagtttcccccacta
	142	rs1501675	5	73026963	4.49E-04	0.7482	0.208	0.26	C	(SEQ ID No:237) gtctaaataacaagaa[C/T]agatgagctcgcgaga
	142	rs6860763	5	73039875	1.76E-04	0.7281	0.196	0.251	A	(SEQ ID No:238) gggcacaattgatctc[A/G]ctacccagacactgag
	143	rs440342	5	95003264	5.54E-04	1.267	0.454	0.396	G	(SEQ ID No:239) gctgctccttgaccttt[C/G]aacaacattcagaaca
	144	rs17133261	5	100579903	3.75E-04	1.751	0.06	0.035	T	(SEQ ID No:240) aaacatctctctacgt[G/T]aaggtaatattctgca
25	145	rs4582267	5	114245934	6.80E-04	0.7904	0.456	0.515	C	(SEQ ID No:241) catgtgtacacctata[C/T]aataaacctgcacgtt
	146	rs156089	5	139502512	9.13E-04	1.261	0.387	0.333	G	(SEQ ID No:242) tcttcaagttctccga[A/G]gctagggccagagtag
	147	rs6866292	5	145693357	1.16E-05	1.4	0.306	0.239	G	(SEQ ID No:243) gaagacataatgaaca[A/G]cacaggcaaaagccct
	147	rs11952119	5	145695938	7.75E-04	1.308	0.261	0.213	G	(SEQ ID No:244) tgacctctatgctggc[C/G]agtatctcccagaccc
	147	rs1368402	5	145697478	1.34E-04	1.359	0.265	0.21	G	(SEQ ID No:245) tggggaatcctggacc[G/T]cgactacgctgcactc
	148	rs12110175	5	147160955	6.74E-04	0.7654	0.235	0.287	T	(SEQ ID No:246) ttctcttacacataaa[G/T]tgatctcttcaagttc
	149	rs1862213	5	149890718	2.32E-04	1.291	0.452	0.39	G	(SEQ ID No:247) accaaaaatacaaata[A/G]aggcaccctctttcac
	150	rs7715379	5	154760454	8.20E-04	1.253	0.479	0.423	C	(SEQ ID No:248) ttctctacccctttgat[C/T]actcctctgaagaaaa
	151	rs873190	5	154774385	8.43E-04	1.254	0.429	0.375	G	(SEQ ID No:249) cagacatcccatctcg[C/G]cagccatatctttttc
	152	rs17117712	5	154846914	4.38E-04	1.634	0.073	0.046	A	(SEQ ID No:250) agcaccaaagacattc[A/G]ctgtgacttcaaatgt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
26	152	rs17117822	5	154868507	6.70E-04	1.605	0.072	0.046	C	(SEQ ID No:2551) tctggcatttcagtaa[C/T]acaccttatggttagc
	153	rs1296136	5	154881273	9.80E-04	1.25	0.43	0.377	C	(SEQ ID No:252) accatatgttgggtca[C/T]aaaataagtcttaaaa
	N/A	rs4958834	5	155024431	6.20E-04	1.307	0.274	0.224	G	(SEQ ID No:253) agattttcatccatgg[A/G]actcacttaaattgag
	154	rs4518375	5	155134495	2.15E-04	1.419	0.171	0.127	C	(SEQ ID No:254) cagagctgctgccacc[A/C]aagtttatggatgcat
	155	rs2339140	5	170122350	4.42E-04	0.7829	0.391	0.451	T	(SEQ ID No:255) gaattgaagaactaaa[C/T]ggagtaagagaaggag
	156	rs11955428	5	171732473	1.67E-04	1.299	0.427	0.364	T	(SEQ ID No:256) gccaatgtggacttcg[G/T]aacttccagaatccag
	157	rs6894903	5	172054606	7.26E-04	1.294	0.317	0.264	C	(SEQ ID No:257) agaagccaagactgag[A/C]aggaatcagtaacttt
	158	rs2517861	6	29929961	1.24E-06	1.449	0.312	0.239	T	(SEQ ID No:258) ccttaccattgtatca[C/T]ggagaccatcccatga
	159	rs1264702	6	30173554	9.75E-04	1.298	0.275	0.226	C	(SEQ ID No:259) tgaaggaatgggtcga[C/T]ggaaacatatttgata
	160	rs2517549	6	31116577	8.68E-05	1.324	0.39	0.325	T	(SEQ ID No:260) tggaatatttgttaac[G/T]gaagcccagaattgga
27	161	rs2253907	6	31444849	2.27E-05	0.7465	0.418	0.491	G	(SEQ ID No:261) actcgttcattcatgc[A/G]ctattggacatcattt
	162	rs2844558	6	31448412	2.39E-05	0.746	0.396	0.468	G	(SEQ ID No:262) tttgtctttgactttc[A/G]acagtttcaatataat
	162	rs2523638	6	31452252	1.24E-04	0.7685	0.408	0.473	A	(SEQ ID No:263) caaccacatttggcga[A/G]gttaatccagctttcc
	163	rs9461799	6	32797507	3.46E-04	1.281	0.444	0.384	C	(SEQ ID No:264) actgagtcccaatggg[C/T]aactgattgcctcttt
	163	rs28420297	6	32822738	8.79E-04	1.256	0.525	0.468	C	(SEQ ID No:265) atgatctggggaatga[C/T]atgaaattggcctaaa
	164	rs9296042	6	32843983	8.21E-04	1.261	0.435	0.379	A	(SEQ ID No:266) atgtagatttactgag[A/G]ctaatcagactcacaa
	165	rs831481	6	37110160	4.46E-04	0.7878	0.449	0.508	G	(SEQ ID No:267) ctccattgtacagaat[A/G]agaacagagaggcaca
	165	rs6939869	6	37111337	2.21E-04	0.772	0.367	0.428	T	(SEQ ID No:268) cggctctaatttctca[C/T]gtctttcaaggagact
	165	rs6457974	6	37129238	9.88E-04	0.7907	0.341	0.395	T	(SEQ ID No:269) aaacgtgaatttaagg[A/T]cagcacaacaatccag
	166	rs9366927	6	37135210	8.56E-05	0.7662	0.447	0.514	G	(SEQ ID No:270) tcagggaaattcacaa[A/G]gacacagggaacaccc
28	166	rs6457980	6	37158614	9.09E-04	1.256	0.517	0.46	G	(SEQ ID No:271) catcagtctcgccccc[C/G]acaggtaatcgctgtt
	166	rs10223823	6	37161822	5.18E-04	1.267	0.525	0.466	T	(SEQ ID No:272) tggacagctgagttgg[G/T]atgagttggagaacag
	167	rs7740037	6	40805603	8.25E-04	1.274	0.349	0.296	T	(SEQ ID No:273) ttgtatgatacctaca[G/T]tgagtctctcctaagc
	167	rs9471414	6	40806396	8.36E-04	1.273	0.348	0.296	T	(SEQ ID No:274) gcctcaggaactcaga[C/T]gtccaatttacatgta
	N/A	rs2268702	6	52555239	6.87E-04	1.272	0.372	0.318	A	(SEQ ID No:275) gtaatgaggggtaaaa[A/T]tcatagacaaacacac
	168	rs3734435	6	52563447	7.95E-04	1.265	0.392	0.338	C	(SEQ ID No:276) aacctgagctccttac[C/T]aaaataaagctgtctt
	169	rs9353436	6	64783032	2.25E-04	1.297	0.382	0.323	G	(SEQ ID No:277) tcttacaatagagata[A/G]taattcctggagttgt
	170	rs9360084	6	65594889	9.22E-04	1.26	0.432	0.376	C	(SEQ ID No:278) tgcaagtcagttagaa[A/C]ctttgatattattcta

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	170	rs2812792	6	65607294	7.14E-04	1.264	0.43	0.374	A	(SEQ ID No:279) aaagccactggtatca[A/G]atattttactataaga
	170	rs9453089	6	65614799	2.52E-04	1.286	0.431	0.37	C	(SEQ ID No:280) aaaatgattttgatta[C/T]gacagctttcaataga
29	171	rs581633	6	102163163	7.84E-04	1.29	0.319	0.266	T	(SEQ ID No:281) ttaactgagtgtaaca[C/T]agtaggtgctcaataa
	171	rs9404125	6	102163517	4.36E-04	1.3	0.322	0.268	G	(SEQ ID No:282) aaagcaggtcactgac[C/G]aaaatgtttacagtga
	172	rs7740161	6	134464868	6.00E-04	0.7759	0.313	0.37	T	(SEQ ID No:283) aaatacaaataattga[A/T]gtgatagctatcctga
	173	rs7740601	6	134465122	5.73E-04	0.7738	0.304	0.361	C	(SEQ ID No:284) tctttccttggcaaca[C/G]tgaggatttgttatgg
	174	rs374522	6	134690107	3.60E-04	1.29	0.408	0.348	T	(SEQ ID No:285) tgcagaataacaaaaa[C/T]gtacgcaaataaatat
	175	rs203695	6	137905309	9.38E-04	1.263	0.396	0.342	C	(SEQ ID No:286) ggagataaaatggata[C/T]gtgaatttagtcatca
	175	rs9389516	6	137910590	5.23E-04	1.327	0.242	0.194	A	(SEQ ID No:287) ataatttctcaattgc[A/T]atttcaggccttttaa
	176	rs13190842	6	145649414	8.18E-04	1.333	0.228	0.182	G	(SEQ ID No:288) tgtcctctcccccaac[A/G]aagagaaatgcattag
	177	rs9371823	6	155070602	7.63E-04	0.7921	0.432	0.49	G	(SEQ ID No:289) agactgttgagtctgc[A/G]cgtccttgttcctgcg
	178	rs1555375	6	155276160	3.55E-04	0.7562	0.237	0.291	C	(SEQ ID No:290) aaaaactggagatcca[C/T]tggaaaaacctcaagc
30	179	rs3778422	6	166847154	3.39E-04	0.6146	0.062	0.097	T	(SEQ ID No:291) tggcacagaagacaaa[C/T]gctggggaggaaaagg
	180	rs3778418	6	166848694	2.54E-04	0.6085	0.061	0.097	A	(SEQ ID No:292) gaagtgtttggtggca[A/G]cagatgctcaagacag
	N/A	rs10945498	6	168450284	8.09E-04	1.289	0.31	0.259	G	(SEQ ID No:293) ttagtataaaaagtaa[A/G]gcataggccgggcgtg
	181	rs10499519	7	20994618	4.81E-05	1.52	0.15	0.104	C	(SEQ ID No:294) tttattcatggactaa[A/C]atccttgtctgacttt
	181	rs2390407	7	20996264	3.16E-04	1.437	0.154	0.113	G	(SEQ ID No:295) tgtctccagtgtggag[A/G]atatacttcaacaatt
	182	rs17796758	7	23316543	3.28E-04	0.6235	0.063	0.097	C	(SEQ ID No:296) ttctagcctttagta[C/T]ggcaaatcatatttta
	183	rs200717	7	23358796	6.89E-04	1.266	0.489	0.431	G	(SEQ ID No:297) tgtgaaaattcactga[A/G]atttatgctcaagatt
	184	rs798645	7	23584551	8.24E-04	0.7834	0.326	0.381	C	(SEQ ID No:298) aagaccaatgcagaca[A/C]acgttttcgagtggtt
	185	rs7802177	7	23973997	1.44E-04	0.7499	0.298	0.361	A	(SEQ ID No:299) attactctttcagatg[A/G]cagtatgcttttctct
	185	rs10232965	7	23975628	3.52E-04	0.7651	0.311	0.371	C	(SEQ ID No:300) tttttgcatttacata[C/T]atcaagttaaagaagt
31	185	rs918972	7	23986287	3.87E-04	0.7614	0.283	0.341	T	(SEQ ID No:301) ttccagtcttcacaga[G/T]taactttgtctggaaa
	185	rs10241472	7	23998832	8.80E-04	0.78	0.316	0.371	A	(SEQ ID No:302) tttcaaaaacattcct[A/T]aacctttatctagcta
	186	rs272674	7	24099195	3.79E-04	0.7544	0.225	0.278	G	(SEQ ID No:303) tattatagagagcccg[C/G]aaataaattcatgcac
	187	rs17148836	7	24131243	3.23E-05	1.936	0.06	0.032	G	(SEQ ID No:304) cttatcagattaatgc[A/G]accctgatagatcccc
	188	rs2016535	7	26589541	1.99E-04	0.7323	0.202	0.257	G	(SEQ ID No:305) aataggtttgtaagtg[C/G]atttattaccatctcc
	N/A	rs10229018	7	29810495	2.67E-04	1.287	0.416	0.357	C	(SEQ ID No:306) tggaaatgaatccctc[C/T]ctaatgtccgtaggaa

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	189	rs2708906	7	47990279	7.97E-04	0.7857	0.346	0.403	G	(SEQ ID No:307) aggatatattcatctc[A/G]atttttatagataggc
	190	rs10264244	7	53351436	5.75E-04	1.266	0.463	0.405	G	(SEQ ID No:308) ttttgttactaaagaa[G/T]agctgccctgttactc
	191	rs2058059	7	71949753	8.96E-04	1.299	0.267	0.219	C	(SEQ ID No:309) tgttaggccattatga[C/T]agatgaggggtcccgc
	192	rs3763432	7	72612805	3.71E-04	0.7745	0.353	0.413	A	(SEQ ID No:310) tatgggcagaactgga[A/G]aagtctcaagggctgg
32	192	rs12539316	7	72615834	5.02E-06	1.395	0.337	0.267	C	(SEQ ID No:311) tcctaatccttggaac[C/T]caggaatttgttgggt
	192	rs17145738	7	72620810	9.82E-04	1.397	0.145	0.108	T	(SEQ ID No:312) accettcacacattta[C/T]ggtgcccatctgacat
	192	rs2286276	7	72625290	6.24E-06	1.387	0.34	0.271	T	(SEQ ID No:313) acctgaccaactgtca[C/T]tctccaaagacactta
	193	rs941299	7	72763115	6.72E-04	0.7825	0.305	0.359	C	(SEQ ID No:314) gggctgagagaactga[C/T]gggactcatcaggctg
	194	rs12672098	7	76693809	8.96E-04	0.4912	0.022	0.044	G	(SEQ ID No:315) catccatgaatcatga[A/G]ctcttttttaaacttta
	195	rs2068892	7	77835370	3.07E-04	0.7746	0.34	0.399	T	(SEQ ID No:316) gaaaatgatgggtgaa[A/T]gtagttaagacaagtg
	196	rs7810778	7	77856639	7.13E-04	0.7863	0.345	0.401	T	(SEQ ID No:317) gaagacagaaaacaga[C/T]ggtcataatatattct
	196	rs7795420	7	77857005	8.16E-04	0.7886	0.348	0.403	G	(SEQ ID No:318) ggggtagaggagagaa[C/G]aaaaagttgacattgg
	196	rs6466179	7	77857855	7.04E-04	0.7863	0.344	0.4	T	(SEQ ID No:319) gtaaagattgccaaca[C/T]tctaatccctgctgta
	N/A	rs12540640	7	77933463	5.78E-04	0.7736	0.296	0.352	A	(SEQ ID No:320) gagcaaatagcagatc[A/G]gaaaaggggctcaata
33	N/A	rs7794063	7	78027425	4.18E-04	1.309	0.291	0.239	C	(SEQ ID No:321) aaggaaaatgaagatc[A/C]acattaataattgaac
	197	rs10259889	7	88676377	3.42E-04	0.5018	0.027	0.053	C	(SEQ ID No:322) tttaattgtttcttca[C/T]gtacagaaatgtagtc
	198	rs6957987	7	98736085	1.77E-04	0.6263	0.078	0.118	G	(SEQ ID No:323) gacaagacaatgctgg[A/G]cacatttggtgttcac
	199	rs9649371	7	114215549	1.78E-06	1.855	0.093	0.052	G	(SEQ ID No:324) catctctacaaatatg[A/G]aaacaaaaatagcagg
	200	rs2034380	7	114239333	4.01E-04	1.547	0.095	0.063	A	(SEQ ID No:325) atatctgtatgcatta[A/T]ggaatggctaaatcag
	200	rs10241162	7	114239582	6.90E-04	1.508	0.097	0.066	G	(SEQ ID No:326) tccctacacaggcaca[A/G]cctcttacattatcaa
	200	rs289194	7	114242030	8.39E-05	1.627	0.095	0.06	T	(SEQ ID No:327) cctaccccatcactca[C/T]ggcagaaactaaggcc
	200	rs2007801	7	114260776	9.32E-04	1.498	0.095	0.066	C	(SEQ ID No:328) gcaaaacctgaaactc[C/T]atgtaggaagctatgt
	200	rs7796836	7	114261787	7.55E-04	1.511	0.095	0.065	A	(SEQ ID No:329) acagtttctttttggc[A/G]ataggagaggaggtag
	200	rs6961343	7	114353505	8.75E-04	1.501	0.095	0.065	T	(SEQ ID No:330) ctagttacaaatccca[A/T]acttatgaaagaagca
34	201	rs41632	7	120230421	8.19E-04	0.7669	0.239	0.29	C	(SEQ ID No:331) aatgagtgtctcatca[C/T]taaaaatattgaagtc
	202	rs12706310	7	120486413	9.20E-04	0.757	0.195	0.242	G	(SEQ ID No:332) tgtctacttgcggtga[A/G]atacagccccaattac
	203	rs2040931	7	123766337	1.78E-04	1.873	0.052	0.029	A	(SEQ ID No:333) aatgaataatttatga[A/G]tcaagagtcttccttg
	N/A	rs11975493	7	128561006	5.90E-04	0.5111	0.026	0.05	A	(SEQ ID No:334) aaccactgctatagag[A/G]aaagtttccaaagttt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	204	rs7800870	7	129539737	6.36E-04	0.789	0.386	0.444	C	(SEQ ID No:335) gtctccgtggcattaa[C/T]ccagacagacaattcc
	N/A	rs901799	7	129718638	8.86E-05	0.6943	0.14	0.19	A	(SEQ ID No:336) tgtcctctcaacactt[A/C]aactgaattcctacac
	205	rs2021779	7	131778503	9.52E-04	0.6532	0.071	0.104	A	(SEQ ID No:337) aggaaggaaaacctcc[A/G]aacatcagcaaaggaa
	205	rs2241733	7	131780573	2.34E-04	0.6384	0.078	0.117	A	(SEQ ID No:338) tcgagaaatcacatag[A/G]aggaggagcaggtggc
	206	rs10081378	7	131823589	7.66E-04	0.6617	0.078	0.113	T	(SEQ ID No:339) ttggatggtaaaatag[G/T]catagtcctctaaata
	207	rs11764626	7	141793948	5.72E-04	0.7852	0.397	0.457	T	(SEQ ID No:340) cctctctgcacggaaa[C/T]ggcagttagaaaaact
35	208	rs10272083	7	143790396	4.77E-04	0.7361	0.17	0.218	A	(SEQ ID No:341) tgaaaatggtaagagc[A/G]agacttattgttatgc
	209	rs1202461	7	148506565	8.28E-04	1.396	0.144	0.107	T	(SEQ ID No:342) ttgcagccttctgctg[A/T]atttctgatctgagct
	210	rs1202390	7	148545055	6.65E-04	1.301	0.27	0.221	G	(SEQ ID No:343) gctaaaaggtgcttcc[A/G]gagtgagaggtggtaa
	211	rs11978239	7	150191255	9.34E-04	0.7778	0.255	0.305	C	(SEQ ID No:344) tcaaacaacaccattg[C/T]attctcttaccatctg
	212	rs11974501	7	154361934	3.63E-04	1.276	0.46	0.4	C	(SEQ ID No:345) tctatatctaaggtca[C/G]catttttcattatcag
	212	rs2293263	7	154385359	5.67E-04	1.265	0.457	0.399	A	(SEQ ID No:346) tttcagtcatcactga[A/G]gttatttttaaggttg
	212	rs306273	7	154422111	7.96E-04	1.256	0.461	0.405	T	(SEQ ID No:347) ctcttgtctttagtca[C/T]ctagccaaccaaacac
	212	rs306290	7	154431488	3.14E-04	0.754	0.286	0.347	T	(SEQ ID No:348) atgtggtcttcttaca[C/T]gtccaagaaaagaaaa
	213	rs306287	7	154450217	4.66E-04	1.283	0.397	0.34	G	(SEQ ID No:349) gtttaggaagctgcct[A/G]aaaggtgacattcaat
	214	rs2698497	7	154477460	2.45E-04	0.6976	0.134	0.182	A	(SEQ ID No:350) tctggttcttctaagc[A/G]cagatattgtgattat
36	215	rs10488370	8	271424	9.75E-04	1.365	0.173	0.133	G	(SEQ ID No:351) atctgatgatacaaac[A/G]gagaattgtagtacaa
	216	rs13269383	8	2023883	9.76E-04	0.6506	0.075	0.11	A	(SEQ ID No:352) acagcactgttctcaa[A/G]agtaaagacatggact
	217	rs2100021	8	8950115	5.23E-04	0.751	0.206	0.257	A	(SEQ ID No:353) caaacactaacctata[A/C]ccaatctgcctgtttc
	218	rs13257313	8	10199791	7.74E-04	0.7637	0.231	0.282	G	(SEQ ID No:354) acctggagtggactac[G/T]gcctcacagatcagaa
	219	rs11783091	8	10221504	4.80E-04	0.7621	0.251	0.306	C	(SEQ ID No:355) accaaagatatgaagc[A/C]gctgtcaaattctgta
	220	rs11787043	8	15469238	6.13E-04	1.29	0.322	0.269	T	(SEQ ID No:356) tctagcacagtagttt[A/T]aaacgttttctcatca
	220	rs35349964	8	15470788	1.10E-04	1.371	0.239	0.186	C	(SEQ ID No:357) aaaaccatgaggttaa[A/C]gcttagaatgaaatat
	220	rs1429088	8	15471526	2.29E-04	1.352	0.24	0.19	T	(SEQ ID No:358) tagcccagggaaagtc[C/T]cagtttactcctgtca
	220	rs4831746	8	15471759	1.10E-04	1.379	0.233	0.18	T	(SEQ ID No:359) taagcagcactaaagc[C/T]accaaagcaacatgtt
	221	rs1441777	8	19877851	3.22E-04	0.6965	0.122	0.166	G	(SEQ ID No:360) ccttggacttgaggtc[A/G]ccttgaaataatgagt
37	221	rs12545984	8	19891539	4.99E-04	0.7087	0.128	0.171	A	(SEQ ID No:361) accaagccaagtagaa[A/G]gttgtagtgctgtgtt
	N/A	rs12544393	8	19980635	2.91E-04	1.327	0.274	0.222	C	(SEQ ID No:362) catctgatttcccaaa[C/T]ggacactcctagcaga

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	222	rs1996396	8	26918290	9.30E-04	1.325	0.211	0.168	C	(SEQ ID No:363) tgatctgtgaagaata[C/T]ggaagcatcttggaag
	223	rs11781163	8	31728374	5.13E-04	0.7585	0.231	0.283	G	(SEQ ID No:364) tgaaggaaggtttcat[G/T]aaataaatggcccttg
	224	rs7820923	8	31770211	7.70E-04	0.766	0.231	0.282	C	(SEQ ID No:365) tacattttgaaaaaac[A/C]gaccttgagttattgc
	225	rs1995467	8	31816063	8.48E-04	0.766	0.23	0.28	T	(SEQ ID No:366) gacttttcccttgaaa[C/T]gtagtgctggcattta
	226	rs418362	8	31908993	9.51E-04	1.455	0.115	0.082	G	(SEQ ID No:367) taaaacaaagctggaa[A/G]acagggaggcaattgc
	227	rs4320537	8	52628759	8.19E-04	1.331	0.224	0.178	A	(SEQ ID No:368) tacagtgaattgaacc[A/G]cttcccaaacaatgaa
	N/A	rs16922400	8	56990293	6.39E-04	0.4021	0.013	0.032	T	(SEQ ID No:369) tgttgcagctgtccaa[C/T]ctctctggcattctag
	228	rs16920884	8	57705466	4.80E-04	1.734	0.061	0.036	A	(SEQ ID No:370) gacataggagccttca[A/T]aaggaaacgaagaccc
38	229	rs16908315	8	82078655	3.80E-04	1.422	0.151	0.112	A	(SEQ ID No:371) catcaggtttgcctct[A/G]aattactaagactgtg
	230	rs1402849	8	84379883	5.04E-06	0.4845	0.039	0.077	C	(SEQ ID No:372) catcttttcagcaaag[C/T]caaaatccttatcata
	231	rs1991352	8	85995067	9.35E-04	0.768	0.234	0.285	C	(SEQ ID No:373) aataatgcaagactca[A/C]tcagtggggaaaatta
	231	rs3937521	8	85995409	5.39E-04	0.7597	0.233	0.286	A	(SEQ ID No:374) cctcctttgacttgga[A/C]aagagctcaggttgaa
	231	rs12604	8	85996372	6.53E-04	0.7626	0.233	0.285	T	(SEQ ID No:375) tccatggaatctcata[C/T]ccagactgaagtaata
	232	rs4739700	8	86370922	6.30E-04	0.7654	0.243	0.296	A	(SEQ ID No:376) caatgagtgactctga[A/G]agagaaaaatggactt
	233	rs2645049	8	86459807	4.66E-04	0.7492	0.208	0.26	A	(SEQ ID No:377) cttttagattgacagg[A/G]aaaggtcagcagtgcc
	234	rs16870474	8	104606752	7.77E-04	1.395	0.154	0.115	C	(SEQ ID No:378) taaggaatagctctta[C/G]aaaagttgactagtcc
	234	rs16870636	8	104762861	8.42E-04	1.392	0.154	0.116	A	(SEQ ID No:379) aaatagttaattagaa[A/C]aagaaccaagcgtgga
	235	rs10505052	8	104976309	1.51E-04	1.406	0.194	0.146	C	(SEQ ID No:380) ataactttatcgaaaa[C/T]gaacaatgcatactgt
39	236	rs9297731	8	127308707	7.55E-04	1.26	0.476	0.419	T	(SEQ ID No:381) tagattgaaggaaaga[C/T]ggggcagaatcttggc
	236	rs11992750	8	127360841	4.31E-04	1.301	0.325	0.27	T	(SEQ ID No:382) tgagaataggcactcc[A/T]attttcaagctcaaat
	237	rs6470447	8	127575964	9.90E-05	1.584	0.099	0.065	A	(SEQ ID No:383) attcacattcgagggg[A/T]cccagaaatatgtgaa
	238	rs923792	8	137406662	2.69E-04	1.369	0.212	0.164	G	(SEQ ID No:384) ggcatattaatgacag[A/G]ctggaagactctttag
	238	rs16905619	8	137406986	3.16E-04	1.364	0.212	0.165	A	(SEQ ID No:385) cactgctatggtgaaa[A/G]gtcatctgagacccat
	239	rs7845253	8	144470711	5.98E-05	0.7547	0.408	0.477	C	(SEQ ID No:386) gtccgggcagattgga[c/t]gcacagactgtccaga
	N/A	rs7862414	9	2221044	6.59E-04	1.45	0.129	0.093	A	(SEQ ID No:387) gaacatagaatgatta[A/G]cagaaaagctttgaac
	240	rs12342908	9	4506255	7.62E-04	1.278	0.316	0.265	T	(SEQ ID No:388) attgtgttcagttgtt[C/T]aaatgttcaggcccgt
	N/A	rs10511480	9	7505713	4.42E-04	0.7774	0.32	0.377	G	(SEQ ID No:389) ttacttccttctagga[C/G]caagctgtgatttcag
	241	rs12552574	9	8272958	6.52E-04	0.732	0.159	0.205	G	(SEQ ID No:390) gtttttgctaatgtca[A/G]gcttggagaatgatta

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
40	241	rs7864876	9	8275015	9.77E-05	0.6974	0.16	0.215	C	(SEQ ID No:391) aattcagggcagagtc[C/T]cagaagcattttgctg
	242	rs598768	9	9579682	5.18E-04	1.288	0.383	0.325	A	(SEQ ID No:392) aatctaaaatgccatg[A/G]attataagacaaccca
	243	rs7855342	9	13636219	1.56E-08	0.0553	0.002	0.03	C	(SEQ ID No:393) caagtgcaagacgcag[C/G]ctgccaaaaggccatt
	244	rs1547761	9	16908196	4.61E-04	0.7562	0.235	0.289	T	(SEQ ID No:394) gccttttgtttaagc[C/T]cacgttatattaatat
	245	rs2772577	9	24537232	4.00E-04	1.321	0.277	0.224	T	(SEQ ID No:395) ttcccgcacaacattc[C/T]actgtgatcaccccat
	245	rs2772575	9	24545849	4.88E-05	0.7532	0.415	0.485	A	(SEQ ID No:396) cagcatttgatgataa[A/T]ggttagcataaatctg
	245	rs2844025	9	24545938	2.19E-04	1.321	0.334	0.275	C	(SEQ ID No:397) ggcctaaatatgtgtc[C/G]agactcatccaatctt
	245	rs2805063	9	24554198	2.47E-04	1.303	0.38	0.32	C	(SEQ ID No:398) cccctgctgttgccac[C/T]ggaaaaacatagcata
	245	rs1888108	9	24562490	2.83E-04	1.298	0.389	0.329	C	(SEQ ID No:399) aatggccattatataa[C/T]agttaccgcatgtgag
	245	rs1157849	9	24563250	1.59E-04	1.316	0.355	0.294	A	(SEQ ID No:400) tgtaagaaaccacgaa[A/T]gaacaattctagctat
41	246	rs10966371	9	24643566	1.61E-04	0.5857	0.056	0.092	C	(SEQ ID No:401) gagtataggttattca[C/T]tgaaaaaattatgtgc
	247	rs1058326	9	27437089	6.24E-04	1.272	0.438	0.38	T	(SEQ ID No:402) caagcttttccttcaa[C/T]gaacctttgtaggcat
	N/A	rs1547699	9	32265256	9.98E-04	0.5793	0.039	0.066	A	(SEQ ID No:403) tgagaacagaggaaac[A/G]attatgaacttgatca
	248	rs2800257	9	36795874	3.23E-04	0.7514	0.22	0.273	T	(SEQ ID No:404) aagcagtcagaggcca[G/T]gaaacagggcaaaagc
	248	rs4880015	9	36796356	6.82E-04	0.7641	0.229	0.28	T	(SEQ ID No:405) cagggagtttaaacca[A/T]ctttgagcctctctct
	249	rs11138425	9	81762443	2.48E-04	1.422	0.161	0.119	C	(SEQ ID No:406) agaaaggtacacgcca[C/T]aaatgccgacattcaa
	N/A	rs2277192	9	86763797	2.79E-04	1.393	0.187	0.142	C	(SEQ ID No:407) accccagctatggtga[C/T]agagaagttgaagaga
	250	rs11140959	9	87209877	4.82E-06	0.4586	0.035	0.072	T	(SEQ ID No:408) ctgcataggtcactga[C/T]gctgaatggagtttgt
	251	rs12347890	9	100086832	3.30E-04	1.532	0.101	0.068	G	(SEQ ID No:409) gatgcttaatgaagaa[A/G]tgacaatagcctgtga
	252	rs12001151	9	111629022	1.08E-04	1.899	0.058	0.031	C	(SEQ ID No:410) tcaatcaggagaacca[C/T]atctttgagaaggcag
42	253	rs10122701	9	118066783	5.16E-05	0.7455	0.311	0.378	C	(SEQ ID No:411) atgaaatcccccccaa[C/T]gctggaatctgacagg
	253	rs10817866	9	118066897	1.99E-04	1.287	0.506	0.443	T	(SEQ ID No:412) agaggtagatgaaaga[C/T]aggaataacatcttca
	254	rs7854428	9	118070597	2.34E-06	0.7142	0.323	0.401	G	(SEQ ID No:413) gcagtcactggtgata[A/G]ctcataattgtgattt
	255	rs1332447	9	121078315	3.74E-04	1.31	0.308	0.254	G	(SEQ ID No:414) caaaacaaggcccata[A/G]gtatatatcatatttc
	255	rs10760031	9	121078681	4.19E-04	1.306	0.309	0.255	T	(SEQ ID No:415) caggttacatatccac[C/T]gatgggttaatgcata
	256	rs11250787	10	1821994	7.46E-04	1.263	0.476	0.418	C	(SEQ ID No:416) tcctttgaccaaggag[C/T]aacaaaaagggagtgg
	257	rs11259742	10	5687084	9.39E-04	0.7743	0.276	0.329	T	(SEQ ID No:417) atcgagtgtaggaaaa[C/T]gaaagacaggtgcagg
	257	rs4747358	10	5690199	9.74E-04	0.7767	0.271	0.324	A	(SEQ ID No:418) acaccaaggaagttca[A/G]gcatctgggttgattt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	258	rs1317516	10	5712726	9.37E-04	0.7652	0.234	0.286	A	(SEQ ID No:419) agcagtgcttgctgaa[A/G]gtgtgtggagcagcaa
	N/A	rs2482052	10	12850576	2.45E-04	1.354	0.235	0.185	G	(SEQ ID No:420) ggataatcctcaccca[A/G]tgaatgaggaatcgtt
43	259	rs7073480	10	13254166	2.33E-04	0.6462	0.083	0.123	T	(SEQ ID No:421) tttataactagtttga[C/T]tattgggtgcttcgtt
	260	rs7085600	10	20556744	4.99E-04	1.266	0.517	0.458	G	(SEQ ID No:422) ggagtaagactgagag[A/G]ccagaaaatctagtta
	261	rs17522290	10	25237886	6.07E-04	0.6234	0.06	0.092	C	(SEQ ID No:423) gctcagaaaggttgga[C/T]gccttgtttagagctg
	262	rs2776938	10	33716916	8.12E-04	0.7654	0.245	0.298	T	(SEQ ID No:424) cctcccaaagtgctgg[A/T]aatccgggaatgaacc
	263	rs2785262	10	33727661	4.04E-04	0.7538	0.242	0.297	T	(SEQ ID No:425) ccaagagaggtcagaa[G/T]aattcaatctgatgtg
	264	rs6479917	10	65182345	6.79E-04	1.389	0.16	0.12	C	(SEQ ID No:426) ttgtataaagccaaaa[C/G]aatttggtaacacccc
	N/A	rs4746864	10	71011206	6.03E-04	1.278	0.388	0.332	A	(SEQ ID No:427) gggtgacagagcataa[A/G]tctggagtgtgggcag
	265	rs7087789	10	91391093	6.63E-04	0.7546	0.206	0.256	G	(SEQ ID No:428) gccttatactttcaca[A/G]tgatggctaaaactgg
	265	rs7076259	10	91402582	9.17E-05	0.7213	0.197	0.254	T	(SEQ ID No:429) ttctttcaatcaacaa[G/T]tatttatgaattacct
	265	rs11185831	10	91409604	4.86E-04	0.7465	0.197	0.247	C	(SEQ ID No:430) ccatgctacctaatta[C/T]caaaatctttattgag
44	265	rs10881618	10	91412609	2.56E-04	0.7331	0.194	0.247	T	(SEQ ID No:431) attcctagcctctgta[A/T]ctgtgagaaataaatt
	265	rs7100603	10	91415745	2.21E-04	0.7331	0.198	0.252	G	(SEQ ID No:432) cttagtcttctaaaca[A/G]tcccataaggtagata
	265	rs1409358	10	91417813	5.80E-05	0.7114	0.187	0.244	A	(SEQ ID No:433) atggcttgcccaatat[A/C]atagagctgccaagta
	265	rs9325443	10	91451052	9.89E-05	0.7214	0.197	0.254	C	(SEQ ID No:434) catctttattgcctca[A/C]ggacagaattggagat
	265	rs10430645	10	91470906	5.28E-04	0.7452	0.19	0.24	T	(SEQ ID No:435) cagaagtataagtaga[A/T]cgatgatgtattaggc
	265	rs7096466	10	91472900	1.88E-04	0.7296	0.192	0.246	C	(SEQ ID No:436) agtttcaaagtctgga[C/T]agctgtagaactattt
	265	rs7895379	10	91486687	7.63E-04	0.7519	0.192	0.24	G	(SEQ ID No:437) ttgcctattgctaata[G/T]agtaaaagccacaata
	265	rs962524	10	91518838	6.54E-04	0.7492	0.191	0.239	T	(SEQ ID No:438) gcttgtatttaagtaa[C/T]tgatccagagcaggct
	265	rs7095818	10	91519465	4.58E-04	0.7446	0.192	0.242	A	(SEQ ID No:439) ttttaacacaggtgga[A/G]tatcagaaaaatgtag
	265	rs11185884	10	91545206	3.34E-04	0.7349	0.183	0.233	A	(SEQ ID No:440) ttcccccatttgccaa[A/T]tcagttctctccagtt
45	266	rs17482340	10	95215147	3.87E-04	1.324	0.272	0.22	A	(SEQ ID No:441) taagtgtgattactag[A/G]cggctttaatgattaa
	266	rs17391661	10	95225923	3.54E-04	1.321	0.28	0.228	T	(SEQ ID No:442) ggctctctgtggggaa[C/T]gcaccaagtgcctgga
	266	rs7921092	10	95233798	6.32E-05	1.314	0.515	0.447	C	(SEQ ID No:443) atgcatactacataaa[C/T]gtgacagtttaacaag
	N/A	rs1935960	10	95772915	5.48E-04	1.363	0.192	0.149	C	(SEQ ID No:444) tggcatttaagctgaa[C/T]gatggagtcaacagag
	N/A	rs11189552	10	100073394	4.13E-04	1.275	0.461	0.401	C	(SEQ ID No:445) ggtttctatactgaat[A/C]agttaactgtcactac
	267	rs12251811	10	123094664	8.77E-04	1.264	0.417	0.361	C	(SEQ ID No:446) attttcccggtgtcaa[C/T]gtagctctcccttgtt

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	N/A	rs7893305	10	123099589	2.74E-04	1.316	0.315	0.259	C	(SEQ ID No:447) atatcctaggggccaa[C/T]gccattctcaaacttt
	268	rs4962731	10	126006478	1.76E-04	0.5835	0.051	0.084	T	(SEQ ID No:448) tccattctatggagcg[A/T]ccacattttgcttatt
	269	rs4751472	10	129385999	3.13E-04	0.7073	0.141	0.188	G	(SEQ ID No:449) agaaattagatgcaca[A/G]agtaaaaaacgttaag
	269	rs1936887	10	129386876	6.44E-04	0.717	0.137	0.181	C	(SEQ ID No:450) ccaatcatttgaattc[C/T]attcttgaggtaagtg
46	269	rs7921461	10	129402158	4.79E-04	0.7137	0.147	0.195	C	(SEQ ID No:451) gtgccgtggagataca[C/T]agatgattgccatatt
	269	rs1936860	10	129404647	8.30E-04	0.7248	0.141	0.185	G	(SEQ ID No:452) taactgacaggactag[C/G]attcttgcctgagtca
	269	rs7083606	10	129409122	7.91E-04	0.7227	0.142	0.186	T	(SEQ ID No:453) aacagtgatactcagg[C/T]actacatcagggtctt
	N/A	rs12411336	10	130744197	8.72E-04	1.662	0.063	0.039	C	(SEQ ID No:454) gtggacaggagggaaa[C/G]agtgaaaccaggtctc
	N/A	rs4751058	10	130764115	6.15E-04	1.369	0.185	0.142	A	(SEQ ID No:455) tcttgctctgggctcc[A/G]caatgtcaggggtggc
	N/A	rs6560688	10	133966344	8.70E-04	1.303	0.263	0.215	A	(SEQ ID No:456) ttatggtgttgccgga[A/G]ctcatggagcagagaa
	N/A	rs11146323	10	133966761	4.95E-05	1.369	0.287	0.227	A	(SEQ ID No:457) gcccgtagggagtatc[A/G]cttgacggagagtgag
	N/A	rs11592559	10	133974916	2.57E-04	1.321	0.32	0.263	A	(SEQ ID No:458) gacagatggccgtggc[A/G]ccctcagattcagccc
	270	rs4481949	10	134040724	2.41E-04	1.341	0.27	0.216	G	(SEQ ID No:459) tgtgagggccaaacac[G/T]gtaactgaaacacaga
	N/A	rs11146352	10	134045961	5.72E-04	1.297	0.319	0.265	A	(SEQ ID No:460) cttcccagcattgatg[A/G]cagccaattacggaaa
47	N/A	rs11246089	11	334351	9.71E-04	1.711	0.052	0.031	G	(SEQ ID No:461) cacaggcgtccacacc[A/G]gattcttcattgctgc
	271	rs10839691	11	6995027	1.13E-04	0.5044	0.032	0.061	C	(SEQ ID No:462) tgagcctttgccagca[C/T]tgagtattaagtttta
	N/A	rs721067	11	19169302	9.14E-05	0.6161	0.076	0.118	T	(SEQ ID No:463) tgccatgtactcactg[A/T]gattttgggcaggtca
	272	rs7936953	11	23585866	7.69E-04	0.654	0.07	0.104	A	(SEQ ID No:464) tgttggaactcctcaa[A/T]ctgccattctgtacat
	273	rs10835218	11	27736226	4.80E-04	1.28	0.394	0.337	C	(SEQ ID No:465) ttttgccagcataaaa[C/G]gggaaaaaaataccac
	273	rs10501091	11	27744359	3.95E-04	1.284	0.394	0.336	C	(SEQ ID No:466) cttgtgctaaacccca[C/T]gagaggtgttgtatgc
	N/A	rs4996144	11	33949859	7.60E-04	1.26	0.496	0.438	A	(SEQ ID No:467) tgtccaaatctgtgaa[A/G]ctctgcacactgcatt
	274	rs10768377	11	38386001	6.64E-05	0.7457	0.346	0.415	T	(SEQ ID No:468) atctattataaggaaa[G/T]atgagtcagagtaggc
	275	rs1792325	11	70790952	2.56E-04	0.7731	0.371	0.432	T	(SEQ ID No:469) agtcaattaagcccac[C/T]ggcaggaatgcatttc
	276	rs506396	11	78735898	6.08E-04	1.32	0.25	0.202	A	(SEQ ID No:470) gcaggccacgtcaaaa[A/G]tgtgtctgctacataa
48	277	rs536962	11	78746092	7.38E-04	1.315	0.253	0.205	A	(SEQ ID No:471) agagcattctgtttgt[A/G]aaacctaacctgggga
	N/A	rs2512994	11	86105652	5.72E-04	1.3	0.275	0.226	A	(SEQ ID No:472) aaaattgtgaagaccc[A/C]ctaagttacccaccca
	278	rs496321	11	94526280	9.54E-04	0.788	0.353	0.409	A	(SEQ ID No:473) ttattttgtctcacca[A/G]tcctactttcctcgtc
	279	rs658899	11	100211415	8.09E-04	1.301	0.272	0.223	T	(SEQ ID No:474) agaaaagttacaatgc[A/T]aggcagtatttaagaa

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	279	rs667504	11	100221671	4.39E-04	1.318	0.274	0.223	G	(SEQ ID No:475) gcaaaaaggtgaaaac[A/G]agggcaagactatgta
	280	rs10750596	11	100248072	3.31E-04	1.326	0.269	0.217	T	(SEQ ID No:476) ttcagtgttcttgttg[A/T]aatttagcaatcaaaa
	281	rs17119713	11	115843885	4.22E-04	0.6196	0.061	0.095	C	(SEQ ID No:477) cattacaatattaccc[A/C]gacgattacccaagac
	282	rs2155857	11	117479969	5.38E-04	1.719	0.061	0.036	T	(SEQ ID No:478) ccagcccaagagagaa[C/T]gtggattttatgctca
	282	rs10502229	11	117485180	4.41E-04	1.81	0.052	0.029	A	(SEQ ID No:479) aatctgatcttggata[A/C]ctgagctgattgtgac
	283	rs2725438	11	132223406	9.16E-04	0.7463	0.177	0.224	A	(SEQ ID No:480) tccctgctgtgaacac[A/G]atttctacaatcctag
49	N/A	rs10771045	12	24010552	4.51E-05	1.334	0.443	0.374	T	(SEQ ID No:481) tgtttatgatgacagt[C/T]actgaacaaaatttcc
	N/A	rs569033	12	24409245	2.91E-04	1.506	0.12	0.083	T	(SEQ ID No:482) tcaagtttaatatacc[C/T]aagttgtggagaaata
	N/A	rs11050249	12	29522091	5.41E-05	0.7554	0.415	0.484	T	(SEQ ID No:483) tatatatcatagcagg[A/T]actggacgtttttga
	284	rs1920024	12	52507715	9.23E-04	1.85	0.041	0.023	T	(SEQ ID No:484) ataaatcaaaccagaa[C/T]agctataaagataagc
	285	rs1882174	12	65503175	4.68E-04	0.7761	0.321	0.378	C	(SEQ ID No:485) ttatagatcagaaaac[A/C]agtctagagaggttaa
	285	rs905696	12	65531066	9.72E-04	0.7851	0.324	0.379	G	(SEQ ID No:486) atcacttttggaatga[A/G]gtcagtataaatcatt
	286	rs2464269	12	65565271	1.67E-04	1.297	0.509	0.444	C	(SEQ ID No:487) tggtgcctcacgccca[C/T]gaaagaaggctgccac
	N/A	rs1566828	12	65581227	7.01E-04	1.27	0.439	0.381	G	(SEQ ID No:488) ttcaaactgaaatgta[C/G]agctttgttttgaaaa
	N/A	rs10506555	12	66195617	8.23E-04	1.285	0.325	0.272	G	(SEQ ID No:489) agctggaagtattcac[A/G]gaacataggaggaaac
	287	rs10878985	12	68116910	6.45E-04	0.7662	0.244	0.296	G	(SEQ ID No:490) atgggaggaggaaatc[A/G]aaggtttagaaaagga
50	288	rs1980064	12	69672607	4.94E-04	1.271	0.524	0.464	T	(SEQ ID No:491) tccccatgccaagctt[C/T]aaaggaaaatactctc
	289	rs2658728	12	94327614	6.54E-04	1.41	0.145	0.107	T	(SEQ ID No:492) agtagaggcaagccag[C/T]cagtctatgcagatat
	290	rs301016	12	94336737	9.63E-04	1.393	0.147	0.11	A	(SEQ ID No:493) acccccttatatgctc[A/G]ctacagattccaaaac
	291	rs11108663	12	95653988	4.94E-04	0.4763	0.023	0.047	A	(SEQ ID No:494) atttggcttaagttgc[A/G]attctgtcacttgcaa
	292	rs11112964	12	105305403	3.54E-04	1.562	0.099	0.066	C	(SEQ ID No:495) cgtttcaggaaaataa[C/T]tggcaacatgcaccaa
	293	rs2075383	12	105438453	2.95E-04	1.583	0.092	0.06	G	(SEQ ID No:496) cgttcctagaagagac[A/G]gagagcgctgactgaa
	294	rs11066827	12	112857428	8.97E-04	0.7264	0.143	0.186	G	(SEQ ID No:497) ggaagaggcctccacc[A/G]atttgttttcagtgcc
	295	rs10773630	12	128342797	6.82E-04	0.7814	0.354	0.412	G	(SEQ ID No:498) attgtttctctgctga[C/G]cacattaggactacat
	296	rs1513199	12	128897217	4.57E-04	1.435	0.135	0.098	T	(SEQ ID No:499) cctgtattccagttca[C/T]tcattctaatattctc
	296	rs1513201	12	128900924	4.59E-04	1.428	0.138	0.101	T	(SEQ ID No:500) acgggaaacttggcca[C/T]gcaaagatgaaacatg
51	297	rs10847961	12	128920302	8.89E-04	1.426	0.13	0.095	C	(SEQ ID No:501) atactgtgcaatgacc[C/T]attggcagaacggtta
	297	rs11060599	12	128926024	7.33E-04	1.462	0.112	0.08	C	(SEQ ID No:502) aatcctctctaaatgg[C/G]actcaggatagcacca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	N/A	rs6490494	13	19391020	1.32E-04	0.7224	0.187	0.242	C	(SEQ ID No:503) agcaggcacaatgtac[C/T]gataccaattttctgg
	N/A	rs7318572	13	22576935	5.85E-08	0.238	0.011	0.045	T	(SEQ ID No:504) cttcatgttctcttct[A/T]aacagggtgagttgct
	298	rs581971	13	32542398	4.01E-04	0.7845	0.431	0.491	A	(SEQ ID No:505) caagaggactgatgaa[A/G]gagaagccagccgttg
	299	rs41438051	13	44322861	4.91E-04	1.697	0.063	0.038	A	(SEQ ID No:506) aacaaatgtaaggtga[A/C]aacaaaaagcagtaat
	300	rs1932745	13	58831501	7.06E-04	0.7791	0.302	0.358	A	(SEQ ID No:507) ctttcagagtcctaca[A/G]catacaagcttctcgt
	300	rs9597999	13	58839683	1.58E-05	0.7274	0.301	0.372	T	(SEQ ID No:508) atcaccaacataaaaa[C/T]atgcgactaagaacaa
	301	rs7993004	13	68245902	9.03E-04	1.271	0.369	0.315	C	(SEQ ID No:509) cacagtattcataaaa[C/T]gtttgcattatgtaga
	302	rs2265849	13	71493937	8.28E-04	1.274	0.383	0.328	C	(SEQ ID No:510) tttggcagcagcacga[C/T]gtagtctacccgccac
52	302	rs2810128	13	71494997	8.42E-04	1.292	0.304	0.253	C	(SEQ ID No:511) caaggcaagctgtcta[C/T]ggctgctgctggaagg
	N/A	rs17240498	13	71863308	7.81E-04	0.7523	0.194	0.243	G	(SEQ ID No:512) ttcggtattgccacat[A/G]atatctgttcattatc
	N/A	rs7985521	13	73161055	1.25E-04	1.361	0.253	0.199	G	(SEQ ID No:513) gaaatagtaaacggca[A/G]agtaggaaagtgaaac
	303	rs11843399	13	73176449	9.91E-05	1.576	0.111	0.074	C	(SEQ ID No:514) agcatcttcaatatga[C/G]caaaacttgctcagca
	303	rs11843962	13	73179408	1.20E-04	1.57	0.111	0.073	A	(SEQ ID No:515) ttacatgtgtgatgag[A/T]atatgtaaagcactcg
	304	rs9565035	13	73193466	5.19E-05	1.335	0.38	0.314	G	(SEQ ID No:516) ccaacatatgatagaa[G/T]gggaaaaagcaacaaa
	304	rs9543432	13	73197016	9.94E-05	1.318	0.383	0.32	C	(SEQ ID No:517) aagtaaaagtaccaca[C/G]agatctttctacaaca
	305	rs1329338	13	76107912	2.55E-04	1.291	0.527	0.464	G	(SEQ ID No:518) ttatggagaatgtcta[A/G]agtgagtacagtatgt
	305	rs913698	13	76109106	7.83E-06	1.368	0.535	0.457	G	(SEQ ID No:519) ctgcttgcagaaaaac[A/G]catacttttgtttata
	305	rs6562962	13	76111186	6.06E-04	1.269	0.531	0.471	T	(SEQ ID No:520) tctctcttcagactca[C/T]gaggtactctggtgac
53	N/A	rs4885690	13	79526176	7.59E-04	0.7503	0.2	0.25	G	(SEQ ID No:521) tttgtgataggtttta[A/G]attccaggatgcgtgt
	306	rs17078797	13	84398671	6.17E-05	1.713	0.078	0.047	C	(SEQ ID No:522) atgttttcattctcca[A/C]gagtgaattgaatgat
	307	rs7988667	13	95889997	6.27E-04	0.7711	0.266	0.32	T	(SEQ ID No:523) tgactgttagtgctaa[C/T]gcagtacatgtctaga
	308	rs6491307	13	96252811	6.72E-04	1.319	0.24	0.193	T	(SEQ ID No:524) gtcacagaccaaatga[C/T]ggataattaagcattc
	309	rs773319	13	104111876	9.29E-04	1.488	0.1	0.07	T	(SEQ ID No:525) gttacttaatcaaaca[C/T]ggatctagttgttttg
	310	rs672397	13	107012050	1.50E-04	0.7659	0.419	0.485	G	(SEQ ID No:526) actttcatacagagga[C/G]atggtaatcttaaaaa
	310	rs4142462	13	107012224	2.00E-04	0.768	0.41	0.475	C	(SEQ ID No:527) ttcttaacattgagca[C/T]gttaacggctagcaat
	311	rs4564440	13	107162928	3.25E-04	0.7079	0.136	0.182	A	(SEQ ID No:528) cagcatggggtcacgc[A/G]gatgcagaaaagcaga
	312	rs12875024	13	107196377	4.44E-05	0.5801	0.063	0.103	T	(SEQ ID No:529) tggagaaacaacactc[C/T]gaggaagtctccatag
	313	rs1865434	13	109206609	5.53E-04	0.706	0.121	0.163	G	(SEQ ID No:530) tgtcacatgtcagaga[A/G]tatcattaaaagaaga

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
54	N/A	rs7984010	13	109208774	6.60E-04	0.7035	0.119	0.161	T	(SEQ ID No:531) ttgaaaacagctaaac[A/T]agtaagttcttcagtt
	314	rs11164144	13	111795833	4.99E-04	1.298	0.33	0.275	C	(SEQ ID No:532) gctgccatgagggttg[C/T]agccctgtctcatatg
	315	rs8007549	14	25701670	4.02E-05	0.751	0.39	0.46	G	(SEQ ID No:533) aagaaggctgatgtta[G/T]cctgatggggttcact
	315	rs2144043	14	25705583	4.89E-05	0.7549	0.386	0.454	A	(SEQ ID No:534) aaacattgtctaatag[A/C]attttctgcactaaca
	316	rs7147094	14	38087239	4.98E-04	1.272	0.519	0.459	G	(SEQ ID No:535) aatggctgaatgagat[A/G]agattaggaggagtga
	317	rs1957276	14	43289463	5.09E-04	0.757	0.223	0.275	A	(SEQ ID No:536) ggttgcacaataatgc[A/G]ctaaaaagttgtttcc
	317	rs17114369	14	43293805	7.55E-05	1.434	0.191	0.141	C	(SEQ ID No:537) actctgcataccctca[C/T]agcctggctgaaagta
	317	rs1957260	14	43320843	3.08E-04	1.4	0.17	0.127	T	(SEQ ID No:538) gggagacactgtgtgg[C/T]catctttgaaaacaaa
	N/A	rs4900649	14	43347169	3.74E-04	1.34	0.227	0.18	A	(SEQ ID No:539) tacagccaactaagga[A/G]gcgaaaaatctctaca
	318	rs7147349	14	62299841	3.96E-05	0.4933	0.034	0.066	A	(SEQ ID No:540) aagagacaatataccc[A/G]aatctcacgcctaagg
55	319	rs11852029	14	82892479	5.74E-04	1.353	0.202	0.157	G	(SEQ ID No:541) ctaaaatgtgtacgct[A/G]agccatagaaatgcac
	320	rs12586747	14	84356082	2.50E-04	1.387	0.192	0.146	T	(SEQ ID No:542) tcagttcatggaaatc[C/T]attcagtggtagcctt
	321	rs17120944	14	84803077	6.18E-04	0.631	0.064	0.098	A	(SEQ ID No:543) ccacacatagcacaat[A/G]aagtgaatttcacagg
	322	rs8009268	14	85291479	3.58E-04	1.278	0.49	0.429	A	(SEQ ID No:544) taagacaagtagggtc[A/G]ctagaaaatgcagaga
	322	rs927604	14	85302214	7.53E-05	1.313	0.502	0.434	G	(SEQ ID No:545) tttcccagcaacctga[A/G]gataaggcacctctgg
	322	rs10220600	14	85304433	7.78E-04	1.26	0.499	0.442	C	(SEQ ID No:546) tacatgtgacttagaa[C/G]tgtttttttgtttttgt
	322	rs11159731	14	85308028	8.65E-04	1.258	0.502	0.445	G	(SEQ ID No:547) gtagattcccttgaca[A/G]gttgaggaacttcctt
	N/A	rs1125597	14	85336687	3.30E-04	1.288	0.408	0.349	T	(SEQ ID No:548) tcctctatctctatcc[C/T]actaccaccagtctgt
	N/A	rs4905296	14	94892457	7.89E-04	1.273	0.342	0.29	C	(SEQ ID No:549) ttggaaggcctcacac[A/C]ggcaactgggcccaac
	N/A	rs10873479	14	96626859	2.97E-04	1.286	0.436	0.376	A	(SEQ ID No:550) acaatgactccaagaa[A/G]taagtgtggtcccatt
56	N/A	rs2720214	14	101471139	9.96E-04	1.443	0.112	0.08	T	(SEQ ID No:551) caattcctggccccgc[A/T]cttgcgtcaatatggt
	N/A	rs11637483	15	43748189	8.34E-04	1.52	0.088	0.06	A	(SEQ ID No:552) agcaagcaacccgagc[A/G]aatcgcagttggagag
	323	rs7164126	15	61969444	2.03E-04	0.7615	0.305	0.366	C	(SEQ ID No:553) tgcttatctgactata[C/T]agaagtcaacatagca
	323	rs41472644	15	61969611	6.96E-04	0.7758	0.272	0.325	T	(SEQ ID No:554) ttttaggaatgtttca[C/T]agtctgaggcgccagg
	323	rs7177662	15	61971678	1.44E-04	0.7597	0.331	0.395	T	(SEQ ID No:555) aggtgatctcagtatc[C/T]cccagtttccctttgg
	324	rs1470003	15	65256389	5.90E-04	0.7902	0.448	0.507	G	(SEQ ID No:556) gtgtgtcaccttaccc[C/G]ccgtagtcattctcct
	325	rs907553	15	68457586	1.34E-04	0.7659	0.408	0.474	T	(SEQ ID No:557) tggcatcatggaaaag[C/T]accagcttggttttgg
	326	rs1027549	15	85589476	8.48E-04	0.7622	0.225	0.276	T	(SEQ ID No:558) ttgatcacacaggcca[G/T]catggaaggtgtagca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	327	rs8040262	15	95315054	1.09E-04	1.562	0.112	0.075	T	(SEQ ID No:559) tttggaaatatggtca[C/T]gctagatgtaactagt
	328	rs11077108	16	6900674	3.18E-04	1.317	0.288	0.235	C	(SEQ ID No:560) aagctgagaagggcca[C/T]gagcctcgtaatccag
57	329	rs11861905	16	17353902	7.15E-05	0.757	0.402	0.47	T	(SEQ ID No:561) gaacccagacatacta[C/T]gcaaaaaattcagaac
	329	rs6498692	16	17356398	6.36E-05	0.7567	0.399	0.467	A	(SEQ ID No:562) caatttgtctgcaaac[A/G]atgctccatcagtctc
	330	rs17811655	16	23930898	9.99E-04	0.6979	0.103	0.141	C	(SEQ ID No:563) agtggaatttgggaga[C/T]tcacagttaaggagtg
	331	rs17199641	16	25317311	6.68E-04	1.516	0.095	0.065	A	(SEQ ID No:564) ccttttggaatgctat[A/G]agtgacataaacactc
	332	rs3976455	16	29768948	1.53E-04	0.6802	0.119	0.165	T	(SEQ ID No:565) gagaagaaattgatgg[C/T]atatcagctgggtaca
	333	rs7203181	16	52540981	3.31E-04	1.285	0.405	0.346	A	(SEQ ID No:566) aaggaaccatttcatt[A/C]aaataagccaacattt
	N/A	rs16965037	16	55604665	1.77E-04	0.7722	0.429	0.494	T	(SEQ ID No:567) cacattcaatctttgg[C/T]actccaggattttgag
	334	rs1423881	16	59400646	3.45E-05	0.2916	0.01	0.033	G	(SEQ ID No:568) gtaaatgtgtgttagt[C/G]aatggagaaacccctt
	335	rs1369930	16	62624585	2.54E-04	0.7458	0.236	0.293	A	(SEQ ID No:569) agtcccttgatcttaa[A/T]tgtagccttattgtct
	N/A	rs16967999	16	63486525	3.82E-04	0.7336	0.179	0.229	A	(SEQ ID No:570) caaaccatatcactgg[A/G]cattgggaaatttaaa
58	N/A	rs2168608	16	69240195	4.83E-04	1.267	0.529	0.47	C	(SEQ ID No:571) cagaactgtgagacga[C/T]acattcctgttgctct
	336	rs7197835	16	81272197	4.11E-05	0.7505	0.346	0.414	G	(SEQ ID No:572) ttgcccagcactatca[C/G]caatctgcaaaaagat
	N/A	rs9930490	16	81284919	4.72E-04	0.7807	0.331	0.388	C	(SEQ ID No:573) tattgacccaaggtgc[C/T]atcagagtcatgaggt
	N/A	rs7188430	16	81303851	1.08E-04	0.6979	0.144	0.194	A	(SEQ ID No:574) ccaggaaaggctatgc[A/G]aacagtcaagaacata
	N/A	rs2665326	16	84917824	8.14E-04	0.7196	0.135	0.178	T	(SEQ ID No:575) tgaatacttaaaaata[C/T]accattcactttcata
	N/A	rs11871464	17	12807271	6.51E-04	1.391	0.159	0.12	G	(SEQ ID No:576) ctcagactcgaaggga[A/G]agcaatcagattccaa
	337	rs8077563	17	12983090	1.81E-04	1.305	0.39	0.329	T	(SEQ ID No:577) aggcagaagtctgctg[C/T]aaagtcaaagccctca
	N/A	rs317354	17	29249986	6.14E-04	1.301	0.301	0.249	C	(SEQ ID No:578) aaatgaagaaaataca[C/T]aggcttggcaggttac
	338	rs317338	17	29262573	1.80E-04	1.334	0.3	0.243	C	(SEQ ID No:579) agagttcattctggac[C/G]atgagaatacctcagc
	N/A	rs2857396	17	45624301	2.27E-04	0.7046	0.138	0.185	G	(SEQ ID No:580) agatagggccaagtac[A/G]acgcaccttgacggat
59	339	rs6505030	17	51504398	5.51E-04	1.331	0.236	0.188	G	(SEQ ID No:581) tgtgattggttgctgc[G/T]cccttgcaatcttagt
	340	rs8078180	17	51539114	7.05E-04	1.392	0.161	0.121	C	(SEQ ID No:582) aatccagagggagaaa[C/T]tggtaggactggacgg
	N/A	rs2526660	17	53495122	7.31E-05	0.6881	0.152	0.206	T	(SEQ ID No:583) aactgcagtgtggaca[C/T]ctcagaacaacactgt
	341	rs9635739	17	61106612	2.98E-04	1.292	0.398	0.339	T	(SEQ ID No:584) gaaaagacaccaaaaa[A/T]gtccttgatttttctc
	341	rs11079581	17	61111564	2.08E-04	1.303	0.398	0.337	G	(SEQ ID No:585) tttctctaatcaataa[A/G]cagcaatttaaaatca
	341	rs12952646	17	61119267	6.28E-04	1.276	0.395	0.339	G	(SEQ ID No:586) tgccctaatctataca[A/G]gagctaagtatggact

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	341	rs8182293	17	61131252	2.66E-04	1.297	0.401	0.34	G	(SEQ ID No:587) tccttcttagctgatg[A/G]aagagatactgcttga
	342	rs16960369	17	62326942	8.85E-04	1.346	0.194	0.152	A	(SEQ ID No:588) acagaatgggacaagc[A/G]attccatacatagttt
	343	rs7208724	17	74694916	4.93E-04	1.267	0.48	0.422	A	(SEQ ID No:589) ggcaaatcatagtaga[A/G]aggaagcaactccaca
	344	rs12948255	17	75490957	3.11E-04	1.277	0.489	0.429	C	(SEQ ID No:590) aggcagaatgcattga[C/T]ccaggaagcaggggt
60	345	rs764359	18	18351907	9.57E-04	1.284	0.292	0.243	C	(SEQ ID No:591) taaaaaatttctcaac[A/C]agttgaccgatattct
	346	rs10502662	18	32397429	9.44E-04	1.362	0.17	0.131	A	(SEQ ID No:592) gatgataccattgaag[A/T]ccagagaggttaatta
	347	rs1786793	18	33261753	9.39E-04	0.7718	0.253	0.305	C	(SEQ ID No:593) ctgaaggaagaacaaa[C/G]aggcctccagtcctgc
	348	rs11875624	18	41428939	1.19E-04	0.7013	0.15	0.201	A	(SEQ ID No:594) catccccttcagaaat[A/G]actgcttccttctccg
	349	rs3809962	18	42592243	4.23E-04	0.7038	0.124	0.168	G	(SEQ ID No:595) aagtgcccagactcca[A/G]tactctcgaccttggc
	350	rs12958504	18	45332827	1.78E-04	1.366	0.231	0.18	A	(SEQ ID No:596) cctgcatttatatagg[A/C]aagaagcaggtgaaaa
	351	rs2082347	18	47292109	3.66E-04	1.314	0.299	0.245	G	(SEQ ID No:597) aaaactttcagcatcc[C/G]atatagtaaaattctc
	351	rs1432396	18	47302450	1.26E-04	1.341	0.298	0.241	A	(SEQ ID No:598) tcaggagatggtcgca[A/G]agattttccaatacct
	352	rs2195850	18	47342984	5.84E-05	1.693	0.092	0.057	A	(SEQ ID No:599) gtgagggcatcagtac[A/C]catgcttctgtcctgg
	353	rs7242423	18	48445999	2.97E-04	0.4596	0.021	0.044	G	(SEQ ID No:600) atattttcagtgatgc[A/G]acattattgagtatag
61	354	rs4510110	18	50931907	9.33E-05	0.5151	0.038	0.072	C	(SEQ ID No:601) ggctgcctaccacata[C/T]actaatttcattaagg
	354	rs8099483	18	50963239	7.12E-04	0.5798	0.042	0.07	T	(SEQ ID No:602) aaaatagccatgtgag[A/T]aaaacaattttgtaga
	355	rs9953026	18	51028264	2.55E-04	1.447	0.145	0.105	T	(SEQ ID No:603) tttcctggttttatga[C/T]gccattttctagttct
	355	rs1261112	18	51035051	3.14E-04	1.438	0.146	0.106	T	(SEQ ID No:604) aacacatcttttccat[C/T]atctggattctgccta
	356	rs41515848	18	51060817	9.41E-05	1.656	0.085	0.053	T	(SEQ ID No:605) cctgcaaagtcataga[C/T]gtgtttatttttcctt
	357	rs17594526	18	51209236	1.77E-04	2.035	0.043	0.022	A	(SEQ ID No:606) aactgtctcagccaaa[A/G]agaaggcactaacatg
	358	rs1364417	18	51844947	3.98E-05	0.7205	0.245	0.311	A	(SEQ ID No:607) acacttcctttgatgc[A/C]caaatcacataagact
	359	rs17239149	18	66221239	1.05E-04	1.344	0.292	0.235	C	(SEQ ID No:608) cccagtggtaatctca[C/T]gtcttaaaaagttttc
	360	rs1905558	18	68646158	3.32E-04	0.779	0.448	0.51	A	(SEQ ID No:609) ttttggtcagatgtta[A/T]cttttgctacttgcag
	N/A	rs1256719	18	70224309	4.92E-04	0.7182	0.145	0.191	A	(SEQ ID No:610) aatgtttagtcaataa[A/G]aaaagtccagggttgt
62	361	rs1895364	19	8918687	7.98E-04	0.6557	0.076	0.111	T	(SEQ ID No:611) atgtcctctaatagaa[C/T]acacatccctgactct
	362	rs4808358	19	15642246	5.68E-04	1.262	0.531	0.473	A	(SEQ ID No:612) aggaatggcggccatc[A/G]acattgccaacatgag
	363	rs4807982	19	15732215	9.29E-04	1.316	0.215	0.172	C	(SEQ ID No:613) ggaactgcatcgggca[C/G]gcgttcgccatggcga
	363	rs4808375	19	15745273	7.83E-04	1.32	0.214	0.171	A	(SEQ ID No:614) ctcctctcagtttctc[A/G]gaacccagtctctgcc

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	363	rs4808376	19	15745417	7.62E-04	1.321	0.214	0.171	A	(SEQ ID No:615) tgaatgaactggacca[A/G]gatcagcaaagctgcc
	364	rs11668530	19	56693297	9.32E-05	0.7658	0.446	0.512	T	(SEQ ID No:616) ggagggccagtccctg[C/T]accttgtctgtgctgt
	N/A	rs8105279	19	56706239	6.30E-04	1.398	0.152	0.114	A	(SEQ ID No:617) aacctttcatatttc[A/G]catttcaaataggaca
	365	rs6509927	19	60370037	1.88E-04	1.384	0.213	0.164	T	(SEQ ID No:618) cctcccccattccaga[A/T]atttggaccgaccctg
	365	rs6509930	19	60372284	1.84E-04	1.38	0.218	0.168	G	(SEQ ID No:619) ggctgaggccggcgga[A/G]ctcttgaagtcaggag
	365	rs16986289	19	60374715	1.01E-04	1.406	0.21	0.159	A	(SEQ ID No:620) aactctctgagcagca[A/G]attaagtggagaatga
63	365	rs16986294	19	60374789	1.02E-04	1.406	0.22	0.167	C	(SEQ ID No:621) tctgtatgggatgaga[C/T]aaggtagaagccaatg
	366	rs2144151	20	831644	3.74E-05	1.374	0.272	0.214	G	(SEQ ID No:622) gctagattcctcctca[G/T]gtctactgatttggaa
	366	rs6118168	20	834002	1.28E-04	1.338	0.276	0.222	C	(SEQ ID No:623) tatgagaggtcctcga[C/T]aaatatttgtggaaag
	366	rs6118169	20	834050	8.10E-05	1.351	0.275	0.219	C	(SEQ ID No:624) tttgtgtaaggggcac[C/G]agatttccactgaata
	N/A	rs6139509	20	4582347	1.98E-05	0.2368	0.007	0.029	A	(SEQ ID No:625) ttgaacaaagaaaagt[A/C]aatccaatccaggtgt
	367	rs11908536	20	5006969	8.50E-04	0.6909	0.098	0.136	T	(SEQ ID No:626) caacagagtgaaggac[C/T]ggctacataacttgta
	368	rs16995365	20	8798035	2.76E-04	1.982	0.041	0.021	G	(SEQ ID No:627) tttatgtcagcactgg[A/G]atactttctccttatg
	369	rs16981268	20	19808352	6.57E-04	1.5	0.105	0.073	A	(SEQ ID No:628) agtcaacacatcagca[A/T]tgaagatcacacaatg
	370	rs6106149	20	19817540	5.88E-04	1.334	0.229	0.182	C	(SEQ ID No:629) agttctgaattctaac[C/T]gtagctttttgggctt
	N/A	rs208262	20	40912496	2.53E-04	0.7728	0.426	0.49	C	(SEQ ID No:630) gccacagtccatctca[C/T]gttaacaaatgcctttt
64	371	rs6126248	20	49575619	7.03E-04	1.344	0.196	0.153	A	(SEQ ID No:631) gactgctccactgtca[A/G]aacagaaactagattc
	N/A	rs13038437	20	53419771	3.98E-04	0.6409	0.071	0.106	A	(SEQ ID No:632) atatttatttttcaga[A/G]tagtgactgagttcag
	372	rs6024198	20	53565751	4.36E-04	1.328	0.253	0.203	C	(SEQ ID No:633) aacaaaaaaagttaaa[C/G]ctgtctgaaggtgaaa
	373	rs271951	20	57446795	9.63E-04	0.7907	0.397	0.454	A	(SEQ ID No:634) attataagattgagag[A/G]ccattgccccaggcag
	374	rs13042233	20	59826114	5.88E-05	0.7405	0.305	0.372	C	(SEQ ID No:635) ttcagagatgaacgcg[C/G]agacacctgtgacctc
	375	rs2822962	21	15149009	1.44E-05	0.6986	0.21	0.276	T	(SEQ ID No:636) ctgtactttgctgtca[A/T]ctatgaaaagaaaaag
	376	rs2837590	21	40671416	9.73E-04	0.7885	0.34	0.395	C	(SEQ ID No:637) caaaaaagtcaagctg[C/G]agacagggcgttggag
	N/A	rs1010146	21	40837815	3.58E-04	2.067	0.038	0.019	T	(SEQ ID No:638) actgactaagagttca[A/T]cttggcacttactgtc
	N/A	rs17759843	22	20604745	2.41E-04	1.494	0.124	0.087	A	(SEQ ID No:639) gctgggctggagaaag[A/G]attacaatttacagac
	N/A	rs5749473	22	31350619	6.78E-04	1.505	0.1	0.069	A	(SEQ ID No:640) ctcacagctccactcc[A/G]atcctggagtcatcgc
65	377	rs867128	22	32414846	3.87E-04	1.283	0.514	0.452	T	(SEQ ID No:641) ttccacttctgattgg[C/T]agggcacgctgattgg
	377	rs6518834	22	32419182	9.66E-04	1.259	0.518	0.46	C	(SEQ ID No:642) agtgagagctaaacta[c/t]ggttcgcaaaggcaga

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	N/A	rs5950350	X	20254777	9.70E-04	0.6977	0.1	0.138	A	(SEQ ID No:643) aggctgcactttggtc[A/G]cattaattccctgaca
	N/A	rs1523823	X	20564838	3.23E-04	1.554	0.101	0.068	G	(SEQ ID No:644) acttgaaaggctagac[G/T]attcactcaacacata
	N/A	rs6528239	X	22945906	5.32E-05	1.33	0.481	0.41	T	(SEQ ID No:645) gtcaccactctaaaca[C/T]agggctttgtgcatgc
	N/A	rs17265665	X	24504706	5.96E-06	2.476	0.04	0.017	A	(SEQ ID No:646) gaaggtttggaaggtc[A/G]aaatcaaggactcttt
	N/A	rs7059101	X	29160482	2.47E-05	0.5346	0.05	0.089	A	(SEQ ID No:647) actataattctttcac[A/G]ctatttctgcattctc
	N/A	rs17329860	X	31139834	3.15E-04	1.839	0.049	0.027	G	(SEQ ID No:648) tgtgtttaaccacatc[C/G]agttttagcagagcac
	N/A	rs1794576	X	75970909	5.65E-06	0.3669	0.02	0.052	A	(SEQ ID No:649) gtctctgcccaaaagc[A/G]cctagaacttataaat
	N/A	rs825541	X	82936504	1.03E-04	1.488	0.151	0.107	T	(SEQ ID No:650) tttctcaagcctggaa[C/T]atagtgcatagctctt
66	N/A	rs825552	X	82955582	1.33E-04	1.478	0.151	0.107	A	(SEQ ID No:651) agagagagcttgtgcc[A/G]agaaattcctgttttt
	N/A	rs1095323	X	82963263	3.87E-04	1.442	0.148	0.107	A	(SEQ ID No:652) tatgctgtcttcaaaa[A/G]aacaatctcacatgca
	N/A	rs1576904	X	83062507	4.39E-05	1.532	0.153	0.106	G	(SEQ ID No:653) tcatatcagccaaaac[A/G]aatctttcattttctt
	N/A	rs5968246	X	83063980	5.37E-05	1.5	0.157	0.11	G	(SEQ ID No:654) caataaattctgaaaa[A/G]tcaaaatcacatcgag
	N/A	rs9887469	X	83249790	3.72E-05	1.516	0.157	0.11	G	(SEQ ID No:655) atctgatacaagccta[A/G]acagtacatttaacgt
	N/A	rs2206858	X	83399705	4.01E-04	0.784	0.4	0.46	C	(SEQ ID No:656) caggtaagtcttcata[A/C]ccatcctacacaccct
	N/A	rs7065961	X	83411635	9.58E-04	0.7968	0.401	0.456	G	(SEQ ID No:657) tttgcagtttagcaca[A/G]taatacaaactttgta
	N/A	rs5924109	X	86889741	1.34E-07	0.5022	0.063	0.118	A	(SEQ ID No:658) tctgctttgcaaacaa[A/C]ggaaatgatagcaaag
	N/A	rs3126592	X	90832307	1.90E-04	1.297	0.461	0.397	A	(SEQ ID No:659) ctggctagccacgtgc[A/C]gaggaattaaagtgga
	N/A	rs7055631	X	94827735	2.03E-13	0.03494	0.002	0.047	C	(SEQ ID No:660) taggcagagagctacc[C/G]agtaaggttcaccttt
67	N/A	rs5957861	X	120909131	1.65E-09	0.1655	0.008	0.046	A	(SEQ ID No:661) tatgatgttaggtatc[A/G]cttttcatatatggcc
	N/A	rs176020	X	125998855	5.38E-04	1.425	0.155	0.114	C	(SEQ ID No:662) ttcactgaacttccca[A/C]agctttttgtcactct
	N/A	rs16995326	X	144102891	1.77E-13	0.06517	0.004	0.051	A	(SEQ ID No:663) tgtggcttacccttgc[A/G]aaacagattcactaag
	N/A	rs6697897	1	7540142	7.61E-05	0.5	0.027	0.052	C	(SEQ ID No:664) attctaggatccggta[C/T]gtttcatagccacttt
	378	rs2273298	1	10140964	3.99E-04	1.4	0.142	0.106	G	(SEQ ID No:665) tttggaaagcaagaaa[A/G]tacatatccctcagta
	379	rs7418410	1	10158989	4.79E-04	1.25	0.436	0.382	A	(SEQ ID No:666) caagtgtagacccaaa[A/G]taactgaaaacaggtg
	380	rs380149	1	25268346	3.88E-05	1.3	0.445	0.381	C	(SEQ ID No:667) ccttgtgaatgcgcca[C/T]ctgggaagaggaccct
	381	rs17123306	1	62506677	4.23E-04	1.67	0.059	0.036	A	(SEQ ID No:668) agagaagaagtgtgac[A/G]gcccagatcacaagca
	382	rs17097241	1	66725349	3.38E-04	1.5	0.097	0.066	A	(SEQ ID No:669) aaatttttatatggtc[A/G]agtctaccaaaccttg
	383	rs12058557	1	69121376	4.90E-04	1.26	0.349	0.298	A	(SEQ ID No:670) tgatggtggctggata[A/T]aaagactggagaaggc

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
68	384	rs9728717	1	85062997	4.60E-04	1.32	0.218	0.175	G	(SEQ ID No:671) agaaggacagcagagg[A/G]agtaaccaacactatc
	N/A	rs41529645	1	119957574	2.85E-04	1.27	0.402	0.346	C	(SEQ ID No:672) atgtctcctctagcta[C/T]gaatattgatggtgat
	385	rs12564925	1	151880169	4.95E-04	1.25	0.505	0.451	T	(SEQ ID No:673) gtgtaaccaaccgtaa[C/T]ggcctgtcctgttact
	385	rs3862047	1	151904241	2.53E-04	0.79	0.403	0.46	A	(SEQ ID No:674) tgtggaatagcaacaa[A/G]ctaagtaaactaaaca
	386	rs12565565	1	161748864	5.65E-04	1.32	0.202	0.16	G	(SEQ ID No:675) aggtagtctagccaca[A/G]aaactgcagttgctgg
	N/A	rs12239036	1	167202231	2.08E-04	1.28	0.382	0.326	G	(SEQ ID No:676) tcctgcatgattacaa[C/G]tgagtgagaactgccc
	387	rs12067790	1	167210444	4.14E-04	1.42	0.124	0.09	C	(SEQ ID No:677) atttaaataaagaaaa[A/C]gcatggagcctgaggg
	388	rs2421519	1	169115098	4.85E-04	1.35	0.171	0.132	C	(SEQ ID No:678) gcgtagagaataatca[C/T]attgttgttgagtaac
	388	rs16863716	1	169122832	5.34E-04	1.36	0.165	0.127	G	(SEQ ID No:679) tagacgtaaataacag[A/G]caatctaaatcaaact
	388	rs10489243	1	169125158	5.30E-04	1.35	0.17	0.132	C	(SEQ ID No:680) caggtaaggagttcaa[C/T]tggataaggccactta
69	388	rs10800572	1	169152187	4.66E-04	1.35	0.171	0.132	G	(SEQ ID No:681) tgagctttatgaagga[A/G]tatgcttccatagtgt
	389	rs12754916	1	176750688	4.36E-04	1.65	0.061	0.038	C	(SEQ ID No:682) attagaacaagggcta[C/T]agatgagtattgtctg
	390	rs6668819	1	176762864	6.53E-04	0.78	0.241	0.289	T	(SEQ ID No:683) ggtgccctggactaaa[C/T]atccctggaggaaacc
	391	rs12405448	1	189386015	5.80E-05	0.64	0.08	0.119	C	(SEQ ID No:684) ggcaaaataaacattc[C/T]agatcgactgagatgt
	N/A	rs7542523	1	229055347	2.25E-04	0.45	0.018	0.038	A	(SEQ ID No:685) gtaggcttccgttccc[A/G]cacacggatctctcca
	392	rs1597982	2	12281921	3.02E-04	0.77	0.256	0.308	A	(SEQ ID No:686) ctcagatgagacttcg[A/G]acatggacttttgagt
	N/A	rs163502	2	45051161	3.13E-04	1.58	0.076	0.05	G	(SEQ ID No:687) agtaattcaaataaca[A/G]tgatggctgggcacag
	393	rs17032926	2	45077075	1.52E-04	1.66	0.07	0.043	C	(SEQ ID No:688) ctgcctgtgagtcaaa[C/T]tggcgcctctgaccaa
	N/A	rs7592781	2	46352179	5.44E-04	1.39	0.137	0.102	G	(SEQ ID No:689) cctcaaggagtaaaac[A/G]gcaatcccacataagt
	N/A	rs17802111	2	46363161	5.96E-04	0.8	0.409	0.463	A	(SEQ ID No:690) ggaaatcagcaatcca[A/G]tcttctccttttttgt
70	394	rs1526645	2	76341430	2.40E-04	1.27	0.439	0.383	A	(SEQ ID No:691) gccttcagatgttata[A/T]gtgatgttttatcaac
	395	rs10194221	2	76348922	2.39E-04	0.79	0.438	0.495	A	(SEQ ID No:692) acaggtatatctcaag[A/C]ctggcacatagtaatt
	396	rs17019797	2	80952767	4.76E-04	0.77	0.207	0.254	T	(SEQ ID No:693) ttgtttgcagaagaca[A/T]ctagtatcaatgcaca
	397	rs1947463	2	84433004	3.90E-04	1.61	0.069	0.044	T	(SEQ ID No:694) ttttttttagcttgca[A/T]ggaagaacacactcca
	397	rs1947465	2	84471616	5.51E-04	1.57	0.072	0.047	C	(SEQ ID No:695) cctgaccagagcatta[C/T]atttcatgcattccca
	398	rs4832087	2	84578184	3.51E-04	1.6	0.072	0.047	G	(SEQ ID No:696) gattcagagaggtaaa[C/G]ttactcttccaaggct
	398	rs7559623	2	84639685	3.84E-04	1.6	0.07	0.045	T	(SEQ ID No:697) accatgacagttacaa[C/T]catatgttgatatgaa
	399	rs6705459	2	84664102	8.68E-05	1.69	0.07	0.043	A	(SEQ ID No:698) tacctgtattatagca[A/G]tgactatcatccagca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	399	rs1811537	2	84668747	4.79E-04	1.48	0.098	0.068	C	(SEQ ID No:699) gtgtcttgtgacttgg[C/T]atgatatgcagggaat
	400	rs1192296	2	84773552	1.69E-04	1.63	0.073	0.046	A	(SEQ ID No:700) attatctaatgcagaa[A/G]taatagattatcccca
71	401	rs1192340	2	84801532	1.31E-04	1.64	0.075	0.047	T	(SEQ ID No:701) gatgactccaaagcaa[C/T]tccttgcaaaacaaat
	402	rs17825681	2	102580313	4.47E-04	0.8	0.423	0.479	C	(SEQ ID No:702) tctctggcttccaaga[C/T]tagaaaaaataaagat
	403	rs4567955	2	106156548	4.26E-04	1.26	0.422	0.367	A	(SEQ ID No:703) caactctaccactgga[A/G]agtgaacacagctgaa
	404	rs17197688	2	137705560	1.06E-04	1.7	0.067	0.041	C	(SEQ ID No:704) aacccttcttagacaa[C/G]aaagcagaatttggtt
	405	rs10178021	2	139594892	6.03E-04	1.24	0.467	0.413	C	(SEQ ID No:705) tttctgctgaggtttc[A/C]cttggctcctaacatg
	406	rs355581	2	142097057	2.86E-04	0.45	0.016	0.035	A	(SEQ ID No:706) cacatatggttcagca[A/T]gacatcaacttgtcct
	407	rs16834415	2	201339638	3.60E-04	1.31	0.236	0.191	T	(SEQ ID No:707) atcaatgtttgataaa[C/T]tggacaaagggaaagg
	408	rs4675296	2	203401804	1.91E-04	1.68	0.064	0.039	G	(SEQ ID No:708) ttgaggtaaatttgag[C/G]attctatgtattgcat
	409	rs4675352	2	204176553	3.99E-04	0.5	0.022	0.043	C	(SEQ ID No:709) cctctgatgaagtgaa[A/C]gtatctactgctgatg
	410	rs341791	3	8999017	4.93E-04	1.27	0.329	0.279	A	(SEQ ID No:710) atcagtacggctttca[A/G]taatggtgatgaacaa
72	411	rs4684689	3	10423426	6.56E-04	1.24	0.511	0.457	A	(SEQ ID No:711) agtgtatgagtttctc[A/G]ctgtgcctggcccatt
	411	rs4684690	3	10423449	3.70E-04	1.25	0.511	0.455	C	(SEQ ID No:712) gaattagagtcacaca[C/T]gcaatgagtgtatgag
	412	rs17804919	3	20365671	3.87E-04	0.77	0.211	0.259	G	(SEQ ID No:713) agaacccaaactaaga[C/G]atcgattttggtagaa
	413	rs10490840	3	24529708	5.83E-04	1.24	0.512	0.457	A	(SEQ ID No:714) cacgagtaaattagaa[A/G]gagtctatgttatgtt
	414	rs9682482	3	26362867	2.85E-04	1.37	0.175	0.135	G	(SEQ ID No:715) ttatcatacgctgaaa[A/G]ccgtacacgtaacaat
	415	rs12485487	3	31516304	3.48E-04	0.75	0.178	0.224	A	(SEQ ID No:716) gcagacccccctaaaag[A/G]ccattcaatgccattc
	416	rs4681992	3	57464631	4.99E-04	1.25	0.496	0.441	G	(SEQ ID No:717) tctctttgaaaaagtc[G/T]cttgaaggctggagat
	417	rs2605436	3	59719703	7.33E-05	0.57	0.046	0.077	T	(SEQ ID No:718) gcatccatgaaaaatg[A/T]agctttctagaactca
	N/A	rs6804141	3	63767366	1.94E-04	2.07	0.035	0.017	A	(SEQ ID No:719) tcgttgcaattatccc[A/G]aacttctttccacttc
	418	rs704416	3	64226430	1.45E-04	1.41	0.163	0.122	C	(SEQ ID No:720) gctctgcaaacagctc[C/T]acaaagaccataaatg
73	419	rs7618768	3	80355420	8.19E-05	2.17	0.034	0.016	A	(SEQ ID No:721) ttgaccctagacatac[A/T]catattagcaggttgt
	419	rs7629235	3	80355605	1.40E-04	2.18	0.033	0.015	G	(SEQ ID No:722) aaatatatggaaacaa[A/G]ctatatgatttgatat
	420	rs2712447	3	107777118	4.22E-04	0.67	0.073	0.105	C	(SEQ ID No:723) aggccaacttctcaac[C/T]gttcctgttgctcctc
	421	rs1513167	3	118487491	1.97E-04	0.79	0.429	0.488	C	(SEQ ID No:724) tctcagtagacatcga[C/T]aaggcagtaaataaat
	422	rs11710724	3	143052984	2.09E-05	1.56	0.115	0.077	C	(SEQ ID No:725) atgcaatggagtgtta[C/T]aaggccctggaacagc
	423	rs16851892	3	143080228	6.27E-05	1.4	0.187	0.142	G	(SEQ ID No:726) ctgtaaaactagtaca[A/G]gtgaagttgggattca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	423	rs2068229	3	143105994	6.36E-05	1.32	0.31	0.254	C	(SEQ ID No:727) agtccaaagctctaac[C/T]gaagctagtgccaaaa
	N/A	rs745966	3	143135816	3.03E-06	1.56	0.146	0.099	G	(SEQ ID No:728) gggactgaattcctca[G/T]cctttgtagcacacga
	424	rs12494971	3	143147034	9.29E-06	1.52	0.144	0.1	G	(SEQ ID No:729) gaactcagtactgaaa[C/G]gtgatccccggagtgc
	425	rs11569218	3	143183993	1.51E-04	1.44	0.136	0.098	G	(SEQ ID No:730) cagttgaacacagatc[A/G]aactccttgttctaca
74	N/A	rs11569214	3	143194194	1.07E-04	1.46	0.134	0.096	A	(SEQ ID No:731) tgtatctgttgaaaac[A/G]attagcaccaagaagc
	426	rs11569193	3	143205117	1.27E-04	1.45	0.135	0.097	C	(SEQ ID No:732) cctaattgttgtaaga[C/T]tccattgctgtctctt
	427	rs11711550	3	143299875	3.78E-04	1.37	0.162	0.124	G	(SEQ ID No:733) ttttctagaccaaaaa[G/T]gcagttgtgttctaat
	427	rs11705932	3	143301540	3.98E-04	1.31	0.242	0.197	T	(SEQ ID No:734) tcttgatgactgtccc[C/T]aaatgataatgaagca
	428	rs3892035	3	185685725	4.06E-04	1.34	0.19	0.149	G	(SEQ ID No:735) ccttatccatgtgaac[A/G]ggagagcttcctcgtt
	429	rs16859825	3	186413707	3.35E-04	1.48	0.103	0.072	C	(SEQ ID No:736) tttcttacccttgttc[C/T]ctgtatatcaatggtt
	N/A	rs16863809	3	190162892	1.21E-04	1.31	0.318	0.263	T	(SEQ ID No:737) ttgagttctcaagata[C/T]gtgtacaaattgcggt
	N/A	rs16893838	4	16314260	2.25E-04	1.66	0.067	0.041	G	(SEQ ID No:738) agacagctgtgtctac[G/T]gccgattggctgtacg
	430	rs10034038	4	20800392	3.69E-04	0.77	0.251	0.302	T	(SEQ ID No:739) agaaaagttgagttaa[A/T]tgaacttcagaaggac
	431	rs2608819	4	39107826	5.31E-04	1.43	0.118	0.086	A	(SEQ ID No:740) agtaacaaggtaaaaa[A/G]ttttgctccaagatcg
75	432	rs6554071	4	53760266	2.50E-04	0.79	0.421	0.478	G	(SEQ ID No:741) atctcccctctcattc[A/G]atcagatagataaaga
	433	rs4864749	4	53885719	2.90E-04	0.79	0.374	0.43	G	(SEQ ID No:742) atatgcaaacttatca[A/G]tcagaactcacccctc
	434	rs12645716	4	70385056	2.15E-04	1.27	0.486	0.428	C	(SEQ ID No:743) atatatttggatttta[C/T]acttaaataggtcggt
	435	rs2575570	4	145768383	1.87E-04	2.08	0.035	0.017	A	(SEQ ID No:744) ttcacttcaccttatc[A/C]acctactactgagata
	436	rs6826142	4	157029976	1.30E-04	1.44	0.141	0.102	A	(SEQ ID No:745) aatatacattcaatgg[A/G]catgaaaaaatgcagc
	437	rs620703	5	3997907	2.86E-04	0.78	0.317	0.371	G	(SEQ ID No:746) tcagggtgactattag[A/G]agaggaaaaatctaaa
	437	rs7724049	5	4033081	2.74E-04	0.78	0.321	0.376	A	(SEQ ID No:747) ttccaaattctccaac[A/C]gaagagtctcctattc
	438	rs440292	5	67645164	2.92E-04	0.76	0.219	0.269	C	(SEQ ID No:748) gaccacatcaaagaaa[C/G]gaccatagacataaga
	439	rs11950190	5	94828575	4.98E-04	1.35	0.176	0.136	A	(SEQ ID No:749) tactgaggtttgtaaa[A/G]agttgcgaactgctga
	440	rs10060914	5	136861259	5.63E-04	0.8	0.359	0.412	A	(SEQ ID No:750) ttctgcgtgtccggga[A/G]taactttctccactcc
76	N/A	rs2269947	5	137804830	4.01E-04	1.26	0.454	0.399	A	(SEQ ID No:751) cagccatgttggaggc[A/G]ctgtgtgggacaccca
	N/A	rs2195442	5	154763919	4.57E-04	1.25	0.44	0.386	C	(SEQ ID No:752) taatgggaaatctcca[C/G]tgaaatagaaagcaaa
	441	rs721865	5	154770129	3.12E-04	1.26	0.48	0.424	A	(SEQ ID No:753) ggctggcttctgtcac[A/G]ggagaacctgtctaaa
	441	rs9324816	5	154770807	2.72E-04	1.26	0.479	0.422	A	(SEQ ID No:754) aggcaagagagagtcc[A/T]gagagaatgtactcac

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	441	rs873881	5	154773525	2.10E-04	1.27	0.49	0.432	C	(SEQ ID No:755) gaggatcaagtagaca[C/T]tctctagatcaagagc
	441	rs4958801	5	154774536	9.46E-05	1.28	0.481	0.42	T	(SEQ ID No:756) tctctacggtctgtcc[G/T]agaaattcatcaaaga
	441	rs4958803	5	154774673	2.02E-04	1.27	0.479	0.421	C	(SEQ ID No:757) tctgccatgttccagt[C/G]aaggggggcaaaggca
	442	rs1148124	5	154833654	4.70E-04	1.25	0.422	0.368	A	(SEQ ID No:758) tgcctcctggagttta[A/G]ggtaggatcaaatgag
	442	rs1295234	5	154838180	6.76E-04	1.25	0.424	0.371	T	(SEQ ID No:759) agaaagtcatataaga[C/T]gaatcacaactctgat
	442	rs1647600	5	154840865	6.13E-04	1.25	0.427	0.374	C	(SEQ ID No:760) gaggtctgcaagggaa[C/T]cctgctatggaaactt
77	442	rs1295223	5	154868336	1.52E-04	1.28	0.428	0.37	G	(SEQ ID No:761) gagagcctgcttacaa[G/T]ctagggatagagccca
	443	rs2569835	6	1491895	4.43E-04	1.25	0.467	0.412	T	(SEQ ID No:762) ccgacactgttcatga[C/T]gtcaaaggccacggtg
	444	rs199026	6	23551813	1.64E-04	0.69	0.109	0.149	A	(SEQ ID No:763) ccaagtaattgggatt[A/G]aagtgtgagaaagtga
	445	rs847785	6	40174655	3.26E-04	0.69	0.096	0.133	G	(SEQ ID No:764) agtgacaagtagaccc[A/G]gagataaacaactcga
	446	rs9453396	6	66528601	3.07E-04	0.79	0.353	0.408	C	(SEQ ID No:765) gacaatccggtgattg[A/C]aggtttgctgtacagt
	446	rs2802053	6	66545563	4.35E-04	0.8	0.397	0.452	G	(SEQ ID No:766) caataaaattttattc[A/G]caataagtgctataga
	447	rs13204707	6	68832431	3.52E-04	1.28	0.31	0.26	C	(SEQ ID No:767) aaattcacctcagagt[A/C]aaatatgttacagtag
	447	rs13216021	6	68859923	2.92E-04	1.31	0.269	0.22	A	(SEQ ID No:768) attttgggctttgta[A/G]gagggtaacaattatt
	448	rs3857501	6	92348639	1.64E-04	0.77	0.3	0.357	T	(SEQ ID No:769) tactcaagtcattcca[A/T]ctttcctgtcataagg
	449	rs11759974	6	102162880	4.08E-04	1.33	0.199	0.157	T	(SEQ ID No:770) ccagaggaatactgtg[C/T]aatcgttaaaatgcat
78	450	rs17076148	6	146993793	2.73E-04	1.48	0.109	0.077	C	(SEQ ID No:771) tcttctcaacacagga[C/T]taccctggaggaaaag
	451	rs9497801	6	147898205	6.31E-05	1.29	0.514	0.451	T	(SEQ ID No:772) gcttttaaaatcgaaa[A/T]ttgtactcctcatcct
	452	rs558044	6	149688793	3.59E-04	0.68	0.086	0.122	G	(SEQ ID No:773) aggctggtcttgagca[A/G]ctaggttcaaggaatc
	453	rs10254690	7	2639814	6.14E-04	1.24	0.479	0.425	G	(SEQ ID No:774) cctccagggacaagtg[A/G]caaagccatcagcatg
	454	rs17143625	7	20992683	2.96E-04	1.42	0.134	0.098	T	(SEQ ID No:775) tagagaacttggtgaa[C/T]gtaaaaatgtattttc
	454	rs4610629	7	20996157	3.01E-04	1.42	0.135	0.099	G	(SEQ ID No:776) gtaaaactatgtggct[G/T]aattttcttccatctc
	455	rs433395	7	23368480	3.40E-04	1.26	0.45	0.394	T	(SEQ ID No:777) acttcttttacagctc[G/T]aatggttcttacaaaa
	456	rs962059	7	31362074	3.27E-05	1.41	0.195	0.146	A	(SEQ ID No:778) tacattcttctcagta[A/G]gcccaccttcaggagt
	457	rs2074755	7	72515102	3.87E-04	1.39	0.145	0.108	C	(SEQ ID No:779) atttccaggagggtca[C/T]gttgggaagtcaagaa
	N/A	rs2107395	7	80705418	2.16E-04	0.79	0.378	0.436	T	(SEQ ID No:780) tggcctataagactat[G/T]agtgacttggcaatgg
79	458	rs2107396	7	80705505	1.26E-04	0.78	0.38	0.44	T	(SEQ ID No:781) atatagtgtgtgcaaa[C/T]gaaataaggtaagaac
	458	rs976328	7	80711534	2.72E-04	0.79	0.369	0.425	T	(SEQ ID No:782) aatgctgaaagataat[G/T]aacatgaaagatgcca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	458	rs1509913	7	80712158	2.17E-04	0.79	0.364	0.422	G	(SEQ ID No:783) ttattgaggagtaaat[A/G]acacaggtaaatttgg
	N/A	rs325966	7	80712322	3.50E-04	0.79	0.367	0.423	T	(SEQ ID No:784) gagtttataagttgta[C/T]gtaaacattcttgaac
	459	rs161837	7	80727157	1.59E-04	0.78	0.365	0.423	T	(SEQ ID No:785) taataaccaattttcc[C/T]atgtagcaaacccgca
	459	rs161843	7	80732898	2.78E-04	0.79	0.367	0.424	G	(SEQ ID No:786) tattttgcctgagaga[G/T]gtaacttacctctgtt
	459	rs161848	7	80736031	2.87E-04	0.79	0.369	0.425	G	(SEQ ID No:787) cttttcttggacccat[A/G]agagaattgatgttgc
	460	rs7777183	7	122103868	6.68E-04	0.78	0.23	0.278	G	(SEQ ID No:788) catgctgtgtgaagtg[G/T]atatttaattggggct
	N/A	rs7820910	8	9863750	2.00E-04	0.37	0.011	0.028	C	(SEQ ID No:789) ctctagaggatcagca[C/T]ggaatttggccaaaac
	461	rs13271017	8	13783440	6.46E-05	1.32	0.314	0.257	A	(SEQ ID No:790) aaaaggccaacagatc[A/C]gaagatgtttgccatt
80	462	rs6557971	8	26914907	3.52E-04	0.76	0.208	0.256	C	(SEQ ID No:791) aatgaacagaagcaaa[C/G]aggctatgatggggac
	463	rs6993559	8	31695557	9.78E-05	0.75	0.228	0.282	A	(SEQ ID No:792) ccaagtaaatccagaa[A/T]gtttgcaacaggattt
	464	rs10954811	8	31705995	1.16E-04	0.75	0.228	0.282	T	(SEQ ID No:793) gaatttacagacaaaa[C/T]atcatctttcctgttc
	464	rs7003184	8	31713684	1.74E-04	0.76	0.228	0.28	C	(SEQ ID No:794) agagatgttaaacacc[C/T]gcaaaaggaagtatgt
	464	rs11775125	8	31714461	1.31E-04	0.75	0.227	0.281	T	(SEQ ID No:795) ctgaacctctagagaa[C/T]acagtcaggtagatga
	465	rs10104297	8	31764867	1.96E-04	0.76	0.228	0.279	G	(SEQ ID No:796) accttgctgtaaaacc[A/G]catgaaattcatattt
	466	rs4733275	8	31768611	2.15E-04	0.76	0.231	0.282	T	(SEQ ID No:797) acctaatgctatctaa[C/T]gtattctgttcttaga
	467	rs1503487	8	31810130	3.37E-04	0.77	0.23	0.28	C	(SEQ ID No:798) ctgggcaatctgcttc[C/T]aaaggtaagaggtggt
	468	rs435904	8	31908643	1.12E-04	1.49	0.118	0.082	T	(SEQ ID No:799) catggtgtctagaacg[C/T]attatgtacttaataa
	468	rs369828	8	31908966	1.89E-04	1.47	0.118	0.083	G	(SEQ ID No:800) aatgtttcatgtgaag[A/G]agcactgctctaaaac
81	468	rs419874	8	31911163	3.01E-04	1.46	0.114	0.081	A	(SEQ ID No:801) tatatgcacacacatg[A/G]aggtacccacacacat
	N/A	rs385396	8	31927636	1.19E-04	1.49	0.118	0.082	C	(SEQ ID No:802) ttacttctgaataagc[A/C]aagttaagctacagtc
	468	rs35240565	8	31927661	4.53E-05	1.5	0.127	0.088	C	(SEQ ID No:803) agaatattagagaagc[C/G]gactagttgactgtag
	468	rs367830	8	31928146	1.83E-04	1.47	0.118	0.083	T	(SEQ ID No:804) aaaacaggaactacaa[C/T]attctcacacagtcct
	469	rs16938028	8	73182493	1.21E-04	1.38	0.187	0.143	C	(SEQ ID No:805) acttttgtggattcaa[C/G]tgacataataacatgc
	470	rs276648	8	73295900	2.23E-04	1.28	0.379	0.323	C	(SEQ ID No:806) tttggagcaggtctta[A/C]gtgaacattagaaaag
	471	rs7843034	8	120852044	1.59E-04	0.62	0.057	0.089	G	(SEQ ID No:807) gaaatgaaaggatgac[A/G]ctcaccaacataaaag
	472	rs10511478	9	7504442	4.57E-04	0.76	0.191	0.237	G	(SEQ ID No:808) atggaatacatttttc[A/G]aagttctaatccctta
	N/A	rs10972699	9	36021793	1.38E-04	1.47	0.123	0.087	C	(SEQ ID No:809) tatcccttcctgccg[A/C]atgactaaaactaaat
	473	rs17391260	9	36842316	5.71E-04	1.28	0.293	0.245	A	(SEQ ID No:810) tggaagtgacagaacc[A/G]gaagggattggtgaga

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
82	474	rs10123219	9	73346489	1.96E-04	1.79	0.052	0.03	A	(SEQ ID No:811) attaattgagtagaac[A/G]cagtcaaagcattgca
	475	rs4279668	9	73374683	3.77E-04	1.36	0.168	0.129	C	(SEQ ID No:812) ggttactgataataaa[C/T]tgagactgggtttatg
	475	rs1536864	9	73387245	4.48E-04	1.36	0.168	0.129	G	(SEQ ID No:813) tattgagtgatcatta[A/G]catctcacatcctgcc
	475	rs10869041	9	73387513	1.03E-05	1.42	0.215	0.162	C	(SEQ ID No:814) caccagtttgcccccca[C/T]tgaatgtcggtttagc
	475	rs10869042	9	73387559	1.75E-05	1.41	0.211	0.159	C	(SEQ ID No:815) tgacatttgcattatc[C/T]gaggggcacactggtc
	476	rs1825279	9	81650978	2.80E-04	1.26	0.507	0.45	A	(SEQ ID No:816) atcaaaatgtgacata[A/G]agaaacaaagtgagca
	476	rs7854198	9	81651735	2.64E-04	1.26	0.505	0.448	A	(SEQ ID No:817) gttttgttggacatag[A/G]attctcagtttagagt
	476	rs7862155	9	81653548	3.75E-04	1.25	0.505	0.449	C	(SEQ ID No:818) taagcaaagagaaaaa[C/T]tgtatttccagtcaca
	477	rs12248346	10	12731450	3.75E-04	1.28	0.325	0.274	T	(SEQ ID No:819) ctctgcgtccacggaa[A/T]ttccaccaagtagctg
83	478	rs827287	10	72378282	1.22E-04	0.78	0.422	0.483	T	(SEQ ID No:820) tggcagttattaaacc[A/T]gaaagtgaggtagtta
	479	rs7076174	10	87427975	5.65E-05	1.32	0.319	0.261	C	(SEQ ID No:821) cctggggcaccttgtc[C/G]agcaggaaggtgatca
	480	rs11018288	10	129416118	3.79E-05	0.66	0.102	0.146	G	(SEQ ID No:822) ttagatggatgccgaa[A/G]tgtttaagggtaaaaa
	481	rs4564353	11	127931094	2.36E-04	0.79	0.388	0.445	T	(SEQ ID No:823) gactctgtgactgcaa[A/T]acttctaggctctctg
	481	rs3948853	11	127938529	3.92E-04	0.8	0.391	0.446	G	(SEQ ID No:824) acaagactagaaatca[A/G]gcagcctgggttcaag
	N/A	rs10842249	12	24010223	8.47E-05	0.78	0.429	0.492	T	(SEQ ID No:825) gctgtccattgcttaa[C/T]gcaggttatttcatta
	N/A	rs7302717	12	93643947	2.73E-04	0.75	0.195	0.244	T	(SEQ ID No:826) cttcacagagaataga[C/T]gttcagcaaacaacag
	482	rs2769432	12	94328136	2.68E-04	1.41	0.143	0.106	T	(SEQ ID No:827) ctttactctatgtcca[C/T]attggaaatgcacaaa
	483	rs2769475	12	94347837	3.17E-04	1.39	0.149	0.112	G	(SEQ ID No:828) ttcatgttgacattta[A/G]aagacagaaagcccat
	484	rs10846753	12	123887414	3.25E-04	1.31	0.255	0.207	C	(SEQ ID No:829) tcaagactctgtgcca[A/C]cattgggtttgtgctc
	485	rs9578030	13	30297506	2.58E-04	0.78	0.271	0.324	T	(SEQ ID No:830) actctgacagtcatca[C/T]gtctggttctaagatc
84	486	rs7326514	13	64562776	4.85E-04	1.32	0.206	0.164	A	(SEQ ID No:831) catatcataaagacaa[A/C]cctgctaattcttctc
	487	rs1570541	13	74972866	1.92E-04	0.64	0.068	0.102	C	(SEQ ID No:832) attatttttaagcaaa[C/T]tgtattcctcatatcc
	488	rs1359660	13	104327958	2.38E-04	0.79	0.425	0.483	A	(SEQ ID No:833) ttcttccattgaaatc[A/G]aacagccaaattccac
	488	rs1326451	13	104328059	3.75E-04	0.8	0.424	0.48	A	(SEQ ID No:834) gagacatagaaataat[A/G]aaagcattgtgaaatt
	488	rs7139992	13	104341410	1.67E-04	0.79	0.449	0.508	C	(SEQ ID No:835) catagaatatggcaaa[C/T]tggacaagtgcttcac
	489	rs2251837	13	105434982	3.51E-04	0.8	0.444	0.5	C	(SEQ ID No:836) cattagtgaggcgtca[C/T]actgattctggaggcg
	490	rs2747105	14	57540518	5.30E-04	0.79	0.323	0.375	G	(SEQ ID No:837) ctatttaagacagcaa[A/G]cgtacattaagactaa
	491	rs2262779	14	61499495	8.31E-05	1.98	0.043	0.022	T	(SEQ ID No:838) tcaatttctagaactg[C/T]aatagtgtccatggaa

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	492	rs23219	14	71464976	1.89E-04	1.39	0.171	0.129	C	(SEQ ID No:839) ctccccaaagccacca[A/C]tatcaatacatgcacc
	493	rs12586968	14	71538158	3.59E-04	1.28	0.344	0.291	G	(SEQ ID No:840) tctagcatccatttca[C/G]aaaccatacaagactc
85	493	rs12586947	14	71538177	9.58E-05	1.3	0.353	0.295	T	(SEQ ID No:841) actcattcaagttatc[G/T]cttctagcatccattt
	493	rs12885938	14	71540089	2.54E-05	1.33	0.353	0.291	C	(SEQ ID No:842) aaggggcagttccata[C/T]agtaggtgacacaggt
	494	rs17120302	14	72292863	4.54E-04	1.68	0.057	0.034	C	(SEQ ID No:843) gcagactccagacaaa[C/T]acagctggttatgcac
	495	rs11623980	14	94069542	3.97E-04	1.35	0.183	0.143	C	(SEQ ID No:844) gttatgtgaaaaagca[C/G]aaccctctaatttgtt
	495	rs17091042	14	94081460	2.08E-04	1.37	0.183	0.141	G	(SEQ ID No:845) aggcaatgacttccac[C/G]aggaatacacgtcatt
	495	rs17826032	14	94081666	1.38E-04	1.38	0.186	0.142	T	(SEQ ID No:846) cgcacagctgaaatga[C/T]gggtttcactgcaggg
	495	rs11623932	14	94083138	3.59E-04	1.35	0.184	0.143	C	(SEQ ID No:847) acaaaaaggctaagca[C/T]aatgacggactaagat
	496	rs12905793	15	57424643	3.12E-04	0.69	0.09	0.126	T	(SEQ ID No:848) cagcagattaaacaca[C/T]tgagcccactggaagc
	496	rs6494101	15	57442824	1.89E-04	0.67	0.089	0.126	T	(SEQ ID No:849) ctttgggactttgcca[A/T]agagactagaagatgt
	497	rs8032989	15	60891649	4.54E-04	1.4	0.141	0.105	G	(SEQ ID No:850) gttaaatgactcacca[A/G]gggcaaaggtacagat
86	498	rs907552	15	68457742	2.97E-04	0.8	0.43	0.487	A	(SEQ ID No:851) ggctaagggttggtgc[A/G]cagaaagcacttagca
	N/A	rs12591597	15	82306850	2.90E-04	1.66	0.066	0.041	C	(SEQ ID No:852) tcaatctgcaaatgag[C/T]atcttcagcccttagc
	499	rs1558561	16	5001949	4.99E-04	0.8	0.402	0.457	C	(SEQ ID No:853) tctgtaaaagcactta[C/T]gattttgcaccctgct
	499	rs1558560	16	5001972	3.29E-04	0.79	0.4	0.457	C	(SEQ ID No:854) gcaccctgcttcatga[C/T]ggatctgcactggttt
	500	rs1019142	16	7652980	1.51E-04	0.7	0.113	0.154	G	(SEQ ID No:855) catccaaaagcagtga[C/G]atgaccattcaagagc
	500	rs3785216	16	7653352	1.59E-04	0.7	0.114	0.155	G	(SEQ ID No:856) aaggaggttggtagga[A/G]tagctttcagctgttg
	501	rs1423086	16	26467802	4.00E-04	1.29	0.267	0.22	T	(SEQ ID No:857) tctttcttcaagcaca[C/T]atagatacttcctaga
	502	rs3784901	16	56515660	5.02E-04	0.75	0.161	0.203	T	(SEQ ID No:858) ttggtttactgagaaa[C/T]gcaaaagcctgggaaa
	503	rs6498806	16	60344027	5.65E-04	1.32	0.201	0.159	A	(SEQ ID No:859) ccccatatcttgacag[A/T]ctgatgtatttttctt
	503	rs17248982	16	60344326	3.99E-04	1.33	0.201	0.159	A	(SEQ ID No:860) gcccacttacttacag[A/C]aacatagacagctttc
87	N/A	rs9921272	16	78429960	4.21E-04	1.43	0.123	0.089	C	(SEQ ID No:861) gttaaccatctgccac[C/T]aaactgttgctgcatt
	N/A	rs12932076	16	83669444	5.83E-04	0.63	0.05	0.078	G	(SEQ ID No:862) cccagtcccaccttag[A/G]agtgtagaacagcgtc
	N/A	rs7191577	16	85066808	5.62E-04	1.37	0.156	0.119	C	(SEQ ID No:863) ttatctgctcactgca[C/T]gagttttgccactcac
	N/A	rs17510939	17	11110498	1.63E-04	1.4	0.169	0.127	T	(SEQ ID No:864) caatgctcaagctttc[C/T]cagtgcttctcaaact
	504	rs11653900	17	67733339	2.59E-04	1.27	0.379	0.324	G	(SEQ ID No:865) ctgaacccggatcaac[G/T]gaagcttcagtgagtt
	505	rs2542151	18	12769947	1.88E-04	0.72	0.139	0.183	G	(SEQ ID No:866) atgccttggttcgggc[G/T]cttcctgagactctca

Table 001 Anchor Group SNPs										
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	N/A	rs17203433	18	20342282	4.82E-04	1.46	0.105	0.074	A	(SEQ ID No:867) gacctacagcagaaac[A/G]cttactttgttcaaca
	506	rs17594665	18	51214717	1.21E-04	1.95	0.043	0.022	A	(SEQ ID No:868) gctgatccctgatagc[A/G]cagcttcacagagcac
	507	rs9949988	18	64768478	1.71E-04	1.33	0.244	0.195	G	(SEQ ID No:869) cataactgtttcagcc[A/G]attcacatctatacat
	508	rs1369291	18	65861567	2.49E-04	1.74	0.055	0.032	T	(SEQ ID No:870) gaataggcagcgtgaa[C/T]ggtattaaatttatga
88	N/A	rs7234733	18	69579920	4.62E-04	1.43	0.117	0.085	C	(SEQ ID No:871) gtagggcccctcagga[A/C]gtgtagctgccctgcc
	509	rs6511253	19	21470638	4.15E-04	0.77	0.235	0.285	A	(SEQ ID No:872) tgtatgttgagtctga[A/G]tacacaagtcacaatc
	N/A	rs12975929	19	61084732	2.42E-04	0.75	0.198	0.247	T	(SEQ ID No:873) acctgaccatcacaga[C/T]gactgtgacacaatca
	510	rs12479791	20	176355	2.53E-04	0.67	0.084	0.119	T	(SEQ ID No:874) ctataattaagacgga[A/T]atctttaataggccat
	N/A	rs2011489	20	836523	1.73E-04	1.29	0.331	0.277	A	(SEQ ID No:875) gcctttctgcctgtac[A/G]actccagtgtgtacct
	511	rs6038047	20	4981341	1.28E-04	0.67	0.089	0.128	T	(SEQ ID No:876) gggaatgtgaggtagc[C/T]atccagtgatgtttaa
	511	rs8119332	20	4990015	5.71E-05	0.66	0.09	0.131	T	(SEQ ID No:877) ctgatgctgccagttc[G/T]gaaactacattttgag
	512	rs7260967	20	5010452	3.93E-04	0.69	0.095	0.131	A	(SEQ ID No:878) actctcattatgacga[A/G]gagtaaatttccatca
	513	rs6077841	20	10519493	5.23E-04	1.42	0.123	0.09	G	(SEQ ID No:879) ctctgccgaagacaca[C/G]aaaaaagaaattcaac
	514	rs11906812	20	19800478	4.48E-04	1.32	0.21	0.167	C	(SEQ ID No:880) catcattgaaataaac[C/T]ggggatccatttcagc
89	N/A	rs6119916	20	30653387	3.66E-04	1.49	0.098	0.068	C	(SEQ ID No:881) ggccaggccaagcaag[C/G]agcgtggactccagac
	515	rs4812218	20	58856241	4.51E-04	1.56	0.076	0.05	G	(SEQ ID No:882) gcgggcaggggcttgc[A/G]gaatcgctaccttctt
	516	rs17794052	20	58870361	2.84E-04	1.58	0.078	0.051	C	(SEQ ID No:883) ggcttcttaacaccgg[A/C]cattcctgagtctctg
	517	rs4549159	20	60778346	8.38E-05	1.29	0.386	0.327	G	(SEQ ID No:884) gtgggaaaatcttgag[C/G]atcttctcctgggctc
	517	rs2427381	20	60785230	1.83E-05	1.33	0.38	0.316	A	(SEQ ID No:885) ccgcagcttccgtccc[A/G]ccaagcgcccatggag
	518	rs3787521	20	60855171	4.08E-04	1.53	0.086	0.058	G	(SEQ ID No:886) gccacatggcctcaac[A/G]gtccaagtcaggatgg
	519	rs2830686	21	27394145	4.82E-05	1.29	0.489	0.426	A	(SEQ ID No:887) actaaaatatgcaaca[A/G]aacatgaaaaaggtac
	519	rs2830687	21	27394265	1.31E-04	1.27	0.486	0.426	T	(SEQ ID No:888) ttactgttggtcaaaa[C/T]tttgtacagtatctca
	520	rs2235161	22	43982792	1.15E-04	0.76	0.254	0.31	G	(SEQ ID No:889) tcaggcttctttctcc[C/G]catgtcatgtttgtga
	521	rs2283657	22	44288816	1.94E-04	1.27	0.518	0.459	G	(SEQ ID No:890) aacccaagttaatgac[A/G]caccttttcttgtgtg
90	522	rs5935465	23	12867214	1.67E-04	1.27	0.514	0.455	T	(SEQ ID No:891) tgctgcatgagggaac[C/T]aatacagtttctaata
	N/A	rs5950379	23	20267276	3.54E-04	0.71	0.116	0.155	A	(SEQ ID No:892) gcttgcttctgagaaa[A/T]tccagtctaagagagc
	523	rs5922023	23	83400810	2.91E-04	0.79	0.398	0.455	C	(SEQ ID No:893) ttggcaaaaaggccta[C/G]agagtgatacacttga
	524	rs7049756	23	121585161	1.80E-05	1.68	0.086	0.053	G	(SEQ ID No:894) gtctattgccctcaaa[A/G]tgttctcaacaggaaa

Table 001 Anchor Group SNPs									
Set	Tbl	Name	Chr	Position	p-value	OR	F_A	F_U	MA	Flank Sequence
	525	rs16997692	23	126391036	1.56E-06	0.2	0.006	0.028	A	(SEQ ID No:895) gagcagagggtagaac[A/G]gtgagagataaagaag
	526	rs5977484	23	130357028	7.73E-05	0.77	0.307	0.367	A	(SEQ ID No:896) ccctgaggcacctcta[A/C]agaaactcaagaacag
	527	rs707255	23	130571597	3.14E-04	1.27	0.395	0.34	A	(SEQ ID No:897) tgctgttcccttatgc[A/G]ccacagcttctacatc
	528	rs5908721	23	142524339	6.44E-04	0.8	0.439	0.493	A	(SEQ ID No:898) ttgtcataggtattca[A/G]gggtacattcaccaga

Table 002 – LD Block 001 – Chromosome 1					
rs6675661, rs6678950 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4908602	7143557	**rs6678950**	**7144629**	rs6577416	7154071
rs6675661	**7144001**	rs11120869	7144689	rs6577417	7155279
rs6667429	7144045	rs11579066	7146422	rs743981	7156398

Table 003 – LD Block 002 – Chromosome 1					
rs7534624 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2807355	22366564	rs17360017	22367802	rs909813	22369290
rs12117004	22366845	rs2807352	22367848		
rs7534624	**22367214**	rs2744698	22368188		

Table 004 – LD Block 003 – Chromosome 1					
rs6678085 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs742356	22374433	rs2982284	22378329	rs2807370	22381509
rs11799918	22374587	rs2982285	22378840	rs2807371	22381793
rs2744704	22376137	rs12023766	22379024	rs2744712	22381838
rs2744705	22376254	rs2807346	22380010	rs2744713	22383637
rs2982282	22376859	rs11803232	22380163		
rs12032458	22377152	**rs6678085**	**22381386**		

Table 005 – LD Block 004 – Chromosome 1					
rs6667290 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs585715	54387925	rs1999175	54389341	rs657783	54391925
rs6699826	54388146	rs9436480	54389844	rs7519887	54391992
rs9326026	54389187	rs7528345	54391023	rs644790	54392434
rs9326027	54389277	rs12096978	54391694		

5

Table 006 – LD Block 005 – Chromosome 1					
rs10889376, rs6656747, rs11208013 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11208011	62981887	rs11208033	63039297	rs11587081	63069703
rs11208012	62982533	rs10493328	63039308	rs12135672	63071354
rs11208013	**62983488**	rs10889381	63040819	rs2886770	63075374
rs12141183	62985267	rs11208034	63041374	rs17316576	63075883
rs12143139	62986735	rs17316337	63041577	rs12567999	63076187
rs12133507	62988506	rs1927484	63043146	rs10493327	63076433
rs11208014	62988959	rs943696	63044726	rs10889386	63078107
rs11208024	62998500	rs6587990	63045047	rs6683423	63079242
rs12085400	63001586	rs12122041	63045982	rs3737893	63079972
rs11208027	63003473	rs12752360	63046447	rs4448545	63081916
rs12138091	63003505	rs17316381	63046891	rs11208046	63082785
rs11807368	63003989	rs11208035	63047126	rs11208047	63084424
rs10889376	**63004437**	rs6683832	63049492	rs12097658	63085907
rs12121207	63004972	rs6686232	63049685	rs6699457	63089428
rs7543380	63007256	rs11582138	63050047	rs1333733	63095149
rs7546879	63011784	rs7539616	63055593	rs1981067	63095331
rs7513999	63012062	rs11208037	63056104	rs6676637	63098542
rs12080049	63012419	rs11208038	63056134	rs7521483	63098904
rs17123817	63019134	rs2366820	63056508	rs2184192	63099450
rs10889377	63019630	rs2366821	63056725	rs1333736	63100023
rs10889378	63019960	rs3737891	63057621	rs6670694	63100446
rs17123828	63020039	rs11208039	63058810	rs1360677	63101532
rs17123830	63020668	rs11208040	63060126	rs1360678	63101639
rs17388170	63020984	rs12090494	63060196	rs3211074	63102805
rs7540030	63022563	rs7513520	63061520	rs17388604	63103662
rs12067646	63022854	rs17123896	63061725	rs1413242	63104452
rs11208029	63025310	rs11208041	63062573	rs998096	63104493
rs6587988	63025354	rs11208042	63062640	rs12128286	63104783
rs11208030	63025417	rs7519205	63062716	rs2803245	63105798
rs11208031	63025602	rs10159426	63065458	rs12125986	63106019
rs10889379	63029753	rs17123899	63067623	rs11584363	63108651
rs17316247	63031137	rs6663454	63067960	rs12756081	63109922
rs4370785	63035510	rs6687943	63068357	rs2050248	63110706
rs4457613	63035570	rs6679582	63068859	rs6587997	63110774
rs11208032	63037753	rs10889383	63069349	rs11208052	63111385
rs12061691	63113869	rs1537496	63117028	rs11208055	63119791
rs6587998	63115057	rs7522726	63117094	rs11580642	63120686
rs12749904	63115933	rs11208054	63117248	rs7535496	63121144
rs12136636	63116225	rs12728111	63119160	rs11804568	63124189
rs12066108	63116762	rs12742537	63119564	rs11208056	63125297

Table 007 – LD Block 006 – Chromosome 1					
rs2658407 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2658407	**63945397**	rs2819159	63946974	rs12568516	63952813
rs1506399	63946072	rs4915914	63949887	rs10458570	63953602
rs937805	63946341	rs949831	63950352	rs12122526	63954891
rs10493351	63946731	rs1848024	63951900	rs2658404	63955392

Table 008 – LD Block 007 – Chromosome 1					
rs12563550 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2503209	66257240	rs6588179	66270866	rs17128314	66282008
rs6683044	66258324	rs6588180	66270887	rs7556303	66282052
rs2455021	66261892	rs2503220	66272145	rs11208787	66282360
rs2503215	66262601	rs7522003	66272886	rs7546256	66282536
rs7553522	66265072	rs2455033	66273054	rs11208788	66282873
rs2455031	66265216	rs17128274	66273212	rs1392811	66283119
rs7553844	66265372	rs2489904	66274305	rs1354060	66283992
rs7525758	66267343	rs12033425	66275695	rs10889594	66286921
rs7525943	66267569	rs1354062	66276065	rs12742079	66287069
rs12757542	66268696	rs1354064	66276307	rs11583733	66287147
rs12567351	66269048	rs10889593	66276964	rs2291980	66288394
rs12563550	**66269176**	rs1392812	66279675	rs1392810	66288727
rs11577275	66269650	rs2270866	66280856	rs2455013	66289145
rs11581168	66270028	rs2228693	66281602	rs12040042	66289638
rs937607	66270347	rs2228692	66281702	rs12747154	66289801
rs12040101	66289854	rs1500963	66302409	rs7415930	66315476
rs12753778	66291243	rs12043568	66302457	rs1909886	66315522
rs2503222	66291285	rs1500962	66302643	rs13376067	66315603
rs12759111	66292432	rs12722858	66304560	rs1500955	66315865
rs2455012	66293586	rs6588185	66305316	rs11208793	66317135
rs1500950	66294859	rs12028871	66305333	rs11208794	66317169
rs11208790	66294997	rs1392820	66306447	rs12118541	66317303
rs1909885	66295363	rs1392819	66306737	rs12048400	66317508
rs6588184	66297345	rs1392818	66306864	rs1392815	66317545
rs11208792	66297699	rs10493394	66307819	rs12049155	66317656
rs4394620	66298072	rs12041326	66310123	rs1392814	66317833
rs12049033	66298852	rs7552924	66310996	rs7548408	66318477
rs12049129	66299127	rs12134699	66311437	rs7539350	66318964
rs12037891	66299820	rs12119734	66311505	rs6661750	66319472
rs12133853	66300368	rs1500958	66311634	rs7551528	66319533
rs1463885	66300436	rs1392817	66312044	rs10493395	66319567
rs7512880	66300489	rs2455028	66312623	rs6588186	66319597

Table 008 – LD Block 007 – Chromosome 1					
rs12563550 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4492586	66301157	rs12027416	66313695	rs2503228	66319730
rs9436757	66301480	rs884712	66313893		

Table 009 – LD Block 008 – Chromosome 1					
rs12145172 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7414246	67933329	rs7419	67940079	rs11209143	67962553
rs12023587	67933349	rs506731	67940523	rs495639	67963258
rs511041	67934377	rs9549	67942843	rs604256	67964539
rs598602	67934425	rs2295942	67945852	rs2803461	67966613
rs12408005	67935883	rs603912	67946124	rs2803462	67966739
rs12065976	67936696	rs2198	67947680	rs2815264	67966864
rs663612	67937086	rs654513	67954303	rs3766263	67967099
rs12087922	67937899	rs1543859	67957822	rs3766264	67967457
rs621235	67939000	rs3766255	67959214	rs3753366	67967721
rs474384	67939336	**rs12145172**	**67960263**	rs3753367	67967867
rs12043551	67939374	rs12036629	67961754	rs7528997	67968329
rs17130228	67969838	rs17130233	67984458	rs3766271	67989728
rs632959	67970259	rs652947	67984677	rs17130237	67992064
rs12085997	67971678	rs655040	67985086	rs682876	67992259
rs525772	67980283	rs3766270	67988012	rs12753153	67992813
rs557986	67981534	rs17531865	67988359	rs3766272	67994059

Table 010 – LD Block 009 – Chromosome 1					
rs12132065 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17130742	68814535	**rs12132065**	**68819730**	rs2507189	68823722
rs7520382	68815812	rs10789267	68821832	rs2064375	68826525
rs7533054	68816497	rs2982525	68822997		
rs12406361	68817861	rs10518304	68823290		

Table 011 – LD Block 010 – Chromosome 1					
rs1417888 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1417892	74553239	rs1341577	74578753	rs12128081	74603473
rs1417891	74553318	rs6687072	74579925	rs1935127	74603581
rs516569	74554867	rs11581900	74585176	rs1358375	74604411
rs486784	74560235	rs12057537	74594141	rs1527682	74604589
rs699835	74560713	rs12120640	74594425	rs12141619	74608792

Table 011 – LD Block 010 – Chromosome 1					
rs1417888 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6424578	74566401	rs17601905	74595039	rs3765667	74608816
rs1333031	74566466	rs1527683	74595525	rs1341574	74609565
rs12135799	74568108	rs3765666	74595948	rs12122147	74611218
rs489990	74571633	rs3819942	74596136	rs12027334	74615375
rs512920	74571856	rs1417889	74597555	rs10789395	74616932
rs1341578	74573794	**rs1417888**	**74597625**	rs17095238	74623728
rs11210450	74574452	rs17095181	74598465	rs1361590	74625453
rs3765663	74577421	rs12750929	74599139	rs6424589	74628948

Table 012 – LD Block 011 – Chromosome 1					
rs6693806 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11210456	74632826	rs699838	74641761	rs17095265	74645121
rs6693806	**74634355**	rs699839	74641844	rs696684	74645727
rs6697607	74635714	rs699840	74642207	rs699843	74647059
rs792694	74636143	rs699841	74642881	rs792695	74649026

Table 013 – LD Block 012 – Chromosome 1					
rs2657206 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs623850	75538774	rs1249667	75552576	rs1249655	75565057
rs17096647	75540654	rs10493570	75552616	**rs2657206**	**75567126**
rs1004053	75541333	rs10493571	75553390	rs1700893	75567406
rs1249675	75543213	rs1262045	75553896	rs10493572	75568187
rs7548993	75546049	rs1249666	75554443	rs10493573	75568247
rs10493569	75546561	rs1249664	75557630	rs11163154	75573366
rs12744088	75547000	rs6656537	75558471	rs1249659	75573516
rs11163074	75547815	rs11163114	75559070	rs17097953	75574383
rs1876032	75551033	rs12030510	75560001	rs1505258	75575376
rs11163089	75551134	rs12404058	75561176	rs10493574	75575730
rs1249670	75551446	rs1249657	75562929	rs6658610	75579348
rs1505259	75551795	rs1249656	75562942	rs17096776	75580778
rs12127347	75551992	rs12562924	75562961	rs10518500	75581176
rs12122907	75552019	rs12726507	75564277		
rs1249668	75552397	rs12756704	75564460		

Table 014 – LD Block 013 – Chromosome 1					
rs10493605 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17100524	77642737	**rs10493605**	**77642912**		

Table 015 – LD Block 014 – Chromosome 1					
rs12405120 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10874427	84305720	rs648856	84306260	rs599686	84306347
rs12031680	84307885	rs953197	84313874	rs6703653	84328496
rs10782822	84311292	rs957828	84314304	**rs12405120**	**84329111**
rs6674038	84311837	rs6701486	84323437	rs7520283	84331490
rs12746741	84312164	rs12404263	84324324		

Table 016 – LD Block 015 – Chromosome 1					
rs2791465 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11161831	86677581	rs2390093	86680747	rs1413426	86682170
rs11161832	86677602	rs12096694	86681037	rs3820039	86682291
rs11161833	86677617	rs12091898	86681090	rs2249296	86682852
rs11800629	86677778	**rs2791465**	**86681286**	rs2275001	86685853
rs11161835	86678347	rs12087904	86681616	rs3765986	86686760
rs2390094	86680620	rs2390059	86682081	rs969786	86689355

Table 017 – LD Block 016 – Chromosome 1					
rs11165689 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2094124	96862089	rs4950005	96888356	rs12022396	96921706
rs1925834	96864095	rs6672133	96895983	rs1496116	96925147
rs6692249	96866584	rs12750228	96898063	rs996315	96927222
rs7537411	96868061	rs11165691	96902400	rs4949939	96928322
rs11165686	96871730	rs1575801	96908206	rs7524390	96928775
rs17115571	96873584	rs1575800	96909370	rs4949940	96930496
rs4950002	96876320	rs7517818	96914283	rs17115650	96931788
rs1409058	96878765	rs1339429	96914399	rs12069825	96934422
rs1325756	96879549	rs11165698	96915634	rs7544736	96936931
rs1325755	96879593	rs1409057	96919542	rs12031128	96938154
rs2220948	96883528	rs12735718	96920169	rs17525106	96938738
rs11165690	96886319	rs12071257	96920373	rs3945004	96940843
rs12071951	96886503	rs1155474	96920946	rs7525442	96941458
rs6673531	96887637	rs12024617	96921167	rs12073954	96943293
rs4950004	96888199	rs12032101	96921321	rs12073730	96945042

Table 017 – LD Block 016 – Chromosome 1					
rs11165689 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4950013	96948369	rs7513314	96975444	rs12083632	97022540
rs1591868	96949675	rs2088251	96976791	rs273874	97024337
rs3908925	96949764	rs605401	96982468	rs661203	97024664
rs1591866	96949797	rs273879	96986305	rs541461	97025529
rs1591865	96949832	rs273878	96988348	rs6699242	97031056
rs12087010	96954627	rs273877	96988924	rs3791010	97035304
rs4949941	96956441	rs12144961	96990742	rs273867	97036970
rs7531045	96961147	rs6666522	96992945	rs54790	97038329
rs3762411	96961679	rs7548031	96999361	rs6699932	97045044
rs3762410	96961876	rs7540478	97005753	rs273884	97045901
rs6661004	96969072	rs12354003	97006192	rs273883	97045920
rs10875031	96969266	rs12354163	97006296	rs3791004	97048888
rs10875032	96970919	rs3762409	97008718	rs273882	97049276
rs11165712	96971148	rs6698118	97012406	rs273885	97052280
rs12563538	96971911	rs10489797	97017788		
rs12563540	96971943	rs17115733	97022384		

Table 018 – LD Block 017 – Chromosome 1					
rs6702619, rs11166276 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2027357	99805115	**rs6702619**	**99818834**	rs10875238	99832188
rs7513849	99805424	rs7543039	99822236	rs6665212	99832285
rs4581299	99808648	rs1416889	99822280	rs6662233	99832322
rs7554955	99809622	rs7543130	99822373	rs1339864	99833117
rs1556947	99810538	rs6577383	99823377	rs6577387	99833137
rs10493912	99811660	rs17120729	99824168	rs7518931	99833976
rs1890753	99812107	rs2893418	99824256	rs6672117	99835005
rs1000792	99812688	rs2392042	99825710	rs2893417	99835358
rs952519	99813116	rs1339860	99827387	rs2392039	99835670
rs17120716	99814730	rs1339861	99828206	rs7530446	99836551
rs1339858	99815973	rs1890756	99828426	rs7526002	99836609
rs1339857	99816237	rs2392041	99828813	rs4445492	99836935
rs1339856	99816377	rs2392040	99828833	rs6577389	99837187
rs10783114	99817738	rs6702910	99831623		
rs11166276	**99817827**	rs1339863	99832047		

Table 019 – LD Block 018 – Chromosome 1					
rs17016630 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs498428	106371568	rs11184734	106391696	rs1482491	106400050
rs12072049	106376996	rs6697442	106392220	rs11184737	106400665
rs11184733	106377020	rs10494034	106392383	rs1360739	106402342
rs12076092	106379337	rs12121434	106394471	rs12071293	106404610
rs7517606	106379413	rs12140189	106394524	rs11184741	106407553
rs12130096	106379609	rs720962	106395360	rs12058715	106408734
rs13375120	106380036	rs12090319	106397335	rs10494035	106411328
rs10494033	106382662	rs969239	106397468	rs10785773	106411380
rs17016624	106388304	rs12724431	106399138	rs11184746	106413685
rs17016630	**106390188**	rs11184736	106399910	rs12061632	106414349
rs12407915	106391141	rs1482490	106400018		

Table 020 – LD Block 019 – Chromosome 1					
rs860792 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs838522	119685135	**rs860792**	**119693142**		
rs838535	119692627	rs838534	119695451		

Table 021 – LD Block 020 – Chromosome 1					
rs12134798 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6428831	119896098	rs2885796	119913185	rs10802114	119917177
rs7539280	119898404	rs1812822	119913782	rs6704100	119924945
rs4659200	119901503	rs3862258	119916402		
rs12032931	119912758	**rs12134798**	**119916907**		

Table 022 – LD Block 021 – Chromosome 1					
rs6427183, rs7545253 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4845353	151950364	rs7556155	151964693	rs7515716	151975530
rs6427085	151953851	rs6698058	151969637	rs6663988	151976595
rs7550138	151956637	rs4845568	151970658	rs11264342	151977892
rs7545253	**151962605**	**rs6427183**	**151973323**	rs12041194	151980876
rs7552428	151963289	rs11264336	151975257	rs9426891	151981042

Table 023 – LD Block 022 – Chromosome 1					
rs11807461 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12068175	152022815	rs6427306	152078743	rs7415816	152153043
rs10752613	152026728	rs6427310	152082394	rs12033835	152153497
rs6690619	152032023	rs12129468	152088568	rs12033532	152155444
rs12032791	152032305	rs4612664	152089297	rs6676863	152156842
rs10796953	152034803	rs4845576	152092028	rs11581644	152157612
rs9427228	152035075	rs12038577	152092793	rs10494303	152159647
rs12738361	152035364	rs9660089	152094243	rs4845357	152162836
rs11583896	152035606	rs4595397	152094704	rs10127484	152167604
rs9426935	152036024	rs4520447	152096013	rs3748848	152167926
rs6693773	152038724	rs4845578	152096617	rs1572788	152170507
rs12133923	152039864	rs6700451	152097870	rs2297895	152180308
rs16835600	152040053	rs11585416	152099728	rs1110165	152180323
rs4434872	152040900	rs12726350	152101163	rs2252508	152180394
rs4567311	152041307	rs11587151	152103805	rs6680140	152183993
rs4077168	152041641	rs12042989	152108912	rs946682	152186380
rs4341393	152043290	rs11590099	152114832	rs10127983	152189900
rs12139537	152043477	rs7414227	152115620	rs11264680	152192702
rs4451582	152044293	rs12041920	152117730	rs10908557	152193676
rs1139620	152044472	rs7522030	152120660	rs10908558	152193894
rs1127091	152046036	rs12043354	152121048	rs2072704	152202167
rs9426938	152046922	rs7537691	152125344	rs11264736	152205754
rs6700115	152048512	rs11264532	152132160	rs11264743	152208138
rs4363451	152057125	rs12401565	152136570	rs12403956	152209703
rs9427232	152059582	rs12022158	152137273	rs12564199	152215164
rs4596938	152061321	rs11589857	152138216	rs10908578	152221298
rs6427298	152061620	rs12022730	152139239	rs12564669	152232705
rs10796956	152062193	rs11264573	152143599	rs4845360	152233284
rs6690242	152067722	rs12028398	152149907	rs11264824	152239795
rs11264446	152072359	rs4845583	152150505		
rs7512766	152077188	rs4845584	152151885		

Table 024 – LD Block 023 – Chromosome 1					
rs5018567 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs14021	152718828	rs4845639	152756976	rs9427415	152775061
rs12568083	152722573	rs6674171	152758307	rs4639752	152775598
rs4474240	152724479	rs4288587	152758981	rs4390168	152775720
rs16836054	152728819	rs4518898	152759056	rs12136771	152778126
rs4478801	152731196	rs4269769	152760706	rs12408461	152779334
rs6684921	152731569	rs10908843	152761104	rs6672087	152782746

Table 024 – LD Block 023 – Chromosome 1					
rs5018567 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10047079	152734759	rs6670375	152761571	rs12750774	152783101
rs6700296	152740284	rs4584384	152762321	rs3811448	152783202
rs5018567	**152746942**	rs11265627	152762910	rs6681207	152783841
rs7513603	152747782	rs6691727	152763629	rs12144146	152791597
rs10752642	152748248	rs6687112	152763770	rs7539745	152793038
rs7518694	152751412	rs6427716	152763953	rs7543174	152794296
rs4845636	152752994	rs4131514	152766713	rs7553602	152796045
rs12128408	152755157	rs7556449	152772510	rs4845652	152804829
rs4845638	152756893	rs12037271	152774512	rs6660775	152805178

Table 025 – LD Block 024 – Chromosome 1					
rs9427097 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11264222	152820981	rs9426823	152835289	rs2335230	152856252
rs1127326	152822116	**rs9427097**	**152835307**	rs9426830	152861314
rs1127317	152822664	rs3738032	152840043	rs7531982	152862746
rs1127314	152822890	rs2229857	152840591	rs884617	152867622
rs1127313	152823049	rs3738029	152841945	rs884618	152867781
rs1127311	152823287	rs3766923	152843632	rs7533471	152867960
rs9427094	152824309	rs3766922	152843679	rs9427108	152874538
rs2131902	152826222	rs12125166	152848753	rs1552902	152875447
rs1127309	152828549	rs6699729	152849520	rs9426831	152876281
rs3766927	152830765	rs6699825	152849594	rs7523890	152888858
rs3766925	152831336	rs4845384	152854293	rs7541282	152891848
rs10908419	152834323	rs9427104	152855856		

Table 026 – LD Block 025 – Chromosome 1					
rs16828155, rs10918985 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7544863	167018922	rs2066895	167028799	rs12067471	167054987
rs926432	167019746	rs10800383	167031364	rs10918996	167062337
rs10918985	**167022584**	rs6699777	167038864	rs6704039	167064717
rs12564363	167024066	rs10918992	167039017	rs2056971	167066523
rs10800382	167024745	rs6659944	167046093		
rs3738241	167024930	rs12064316	167052709		

Table 027 – LD Block 026 – Chromosome 1					
rs12146094, rs12144057, rs12122794 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1330377	168317226	rs10800496	168331720	rs6676005	168348099
rs4656204	168320231	rs6657215	168332119	rs11805430	168350057
rs1330378	168320583	rs10919299	168333920	rs12134995	168350483
rs11800956	168320905	rs10494480	168335528	rs12135070	168350779
rs11799803	168320925	rs10494481	168335635	rs12131740	168350862
rs574053	168323094	rs16863023	168335948	rs12042109	168352077
rs10919298	168330968	rs16863031	168337451	rs542854	168353201
rs12132888	168331021	rs2421111	168338369	rs7513073	168353301
rs12128116	168331236	rs7515727	168338840	rs1330386	168353488
rs12117892	168331335	rs7540670	168342991	rs1330387	168353650
rs12120443	168331429	rs4656734	168343053	rs560584	168357136
rs12117197	168331599	rs7531152	168343178		

Table 028 – LD Block 027 – Chromosome 1					
rs10800570 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11589761	169037973	rs10737555	169062479	rs6664881	169072251
rs2143109	169039655	rs6677161	169063828	rs12031777	169073422
rs1004759	169043173	rs10753823	169065068	rs10919489	169073959
rs10919478	169043916	rs6658807	169065128	rs10800546	169074210
rs6660781	169044482	rs10919486	169065277	rs10753825	169074397
rs1033457	169057426	rs10753824	169065801	rs6661079	169074887
rs6683847	169058435	rs2143111	169067487	rs6699455	169075213
rs10800547	169079105	rs763736	169108880	rs10919521	169139757
rs7551838	169080944	rs2038111	169110501	rs10919524	169140013
rs7551763	169080984	rs4656810	169110574	rs12239620	169140187
rs10800548	169082877	rs10489238	169111036	rs12142351	169141146
rs6657519	169082976	rs926442	169111806	rs10919525	169142151
rs6657530	169083015	rs10800561	169112369	rs10800569	169143311
rs10919492	169083359	rs2421519	169115098	rs721756	169143708
rs6664433	169084963	rs3862938	169115692	**rs10800570**	**169144030**
rs2421501	169092103	rs7521802	169118757	rs10800571	169144622
rs12566091	169092159	rs10489239	169123476	rs10919527	169145358
rs12138160	169094706	rs4656811	169124238	rs12738997	169145728
rs983215	169097269	rs10489241	169124719	rs12730263	169147200
rs10489234	169097594	rs10489242	169124992	rs12566178	169147546
rs1022522	169098037	rs10489243	169125158	rs10919532	169150527
rs10489235	169099466	rs6667186	169125941	rs10800572	169152187
rs10442650	169099739	rs16863739	169126444	rs11810972	169152249
rs9287100	169099797	rs12038181	169127155	rs4483469	169152967

Table 028 – LD Block 027 – Chromosome 1					
rs10800570 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10442651	169099948	rs3980705	169128458	rs3980708	169153080
rs10489236	169099964	rs12029713	169129334	rs7514995	169153646
rs4656805	169100325	rs2038113	169132187	rs2206558	169156027
rs4656807	169100462	rs10919511	169133130	rs2206559	169156292
rs4656808	169100571	rs10919513	169133667	rs12060943	169157371
rs10800560	169100723	rs10800566	169133675	rs7533846	169158016
rs988340	169100893	rs10919514	169133748	rs12062677	169158969
rs926440	169100968	rs1008779	169134173	rs12094417	169159603
rs926441	169101080	rs1008778	169134265	rs12089701	169159632
rs6693346	169101626	rs10800567	169134950	rs10919533	169160279
rs4656809	169102386	rs10442652	169136992	rs2206561	169160915
rs10489237	169102926	rs10919516	169137301	rs6681815	169161546
rs3765377	169103665	rs10919517	169137407	rs6427274	169161745
rs3765378	169103917	rs12128956	169138247	rs6669479	169161895
rs12563179	169105376	rs10800568	169138335	rs9633327	169161994
rs3980702	169107486	rs4607948	169139055	rs6427275	169162422

Table 029 – LD Block 028 – Chromosome 1					
rs9425433 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs941987	172107422	rs4652298	172125147	rs9425436	172136987
rs9286895	172109090	rs1322777	172125723	rs2227612	172142024
rs9661233	172110674	rs16846546	172126805	rs2759328	172143328
rs2065170	172111855	rs4652328	172130122	rs5878	172145455
rs9425766	172119750	rs7525115	172131567	rs5877	172145485
rs4652283	172121282	rs1322780	172132209	rs2227607	172147375
rs1322775	172121921	rs10489894	172132647	rs941989	172148494
rs16846526	172122860	rs6691053	172135578	rs941988	172148516
rs16846529	172123235	rs16846561	172135734	rs2227589	172152839
rs9425768	172123755	rs2146372	172136192		
rs9425430	172123906	rs2295957	172136266		

Table 030 – LD Block 029 – Chromosome 1					
rs1951627 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2227588	172154066	rs767053	172170360	rs7413166	172196358
rs1951627	**172158440**	rs1407596	172171582	rs1407597	172196611
rs1951626	172158724	rs6703547	172174435	rs12066153	172204038
rs7528380	172162776	rs10912702	172184782	rs13375205	172213814

Table 030 – LD Block 029 – Chromosome 1					
rs1951627 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16846593	172164840	rs6698123	172185520	rs1884994	172216905
rs9425780	172169923	rs6695887	172193042		

Table 031 – LD Block 030 – Chromosome 1					
rs10912722 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6686083	172219162	rs12072602	172250428	rs6696163	172282254
rs7547880	172219767	rs12562588	172254083	**rs10912722**	**172283397**
rs12086826	172223236	rs10798302	172254421	rs965498	172286016
rs6685043	172224136	rs12071784	172262423	rs6689285	172286356
rs12566842	172224252	rs10494491	172269774	rs16846667	172307217
rs12089405	172230829	rs6665484	172272754	rs10127823	172308190
rs7523504	172236882	rs6684527	172276675	rs7511780	172315269
rs2009083	172244428	rs6677660	172281130	rs12563395	172317046
rs6699146	172326145	rs6696864	172333383	rs17350991	172350091
rs12563301	172326685	rs2145378	172338266	rs4650945	172350727
rs6695327	172328467	rs4652179	172342946	rs4233169	172354747
rs10912728	172328995	rs17353198	172343200	rs16846688	172354777
rs7553788	172329534	rs12079062	172346207	rs1407127	172355309
rs17350956	172329624	rs16828467	172346786		
rs4650939	172332584	rs16846683	172349962		

Table 032 – LD Block 031 – Chromosome 1					
rs12564848, rs12565430 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12085290	172360460	rs7537517	172442986	rs12072050	172505409
rs12085871	172361893	rs1890881	172443546	rs10798309	172505569
rs4652191	172371234	rs4607949	172447979	rs10912754	172509428
rs2901785	172371366	rs2103640	172454908	rs6670617	172513335
rs6676161	172374316	rs16846769	172457368	rs12066700	172517815
rs6668008	172374513	rs4650968	172459083	rs12060460	172520274
rs6670425	172379965	rs11802158	172459734	rs4650990	172525704
rs12079214	172385333	rs10912747	172460325	rs6425277	172531914
rs12065785	172387057	rs12081445	172462684	rs12074276	172537928
rs16846717	172387941	rs972361	172464031	rs2142864	172540685
rs16846718	172388543	rs10489254	172464424	rs6700482	172542460
rs6425275	172388711	rs12564858	172464962	rs7553317	172542943
rs10912735	172394763	rs12076453	172466199	**rs12564848**	**172542992**
rs3086	172402997	rs12079820	172476532	rs12074107	172543687

Table 032 – LD Block 031 – Chromosome 1					
rs12564848, rs12565430 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1417186	172406851	rs7535987	172476601	rs12097252	172554135
rs724889	172416087	rs6666588	172484733	rs10912765	172558573
rs724888	172416164	rs4652274	172485195	rs6678209	172561368
rs7547766	172416738	rs16846809	172486021	rs11801105	172569899
rs4652234	172417473	rs16846815	172487165	rs2064150	172575050
rs10912741	172425736	rs10912750	172489398	rs10489255	172577746
rs17300775	172427662	rs2064149	172491617	rs4651008	172578442
rs4442420	172435428	rs12085311	172491858	rs2860954	172580074
rs12691474	172436628	rs10912753	172500987	rs2049991	172592189
rs6684688	172592941	rs969472	172694323	rs6682070	172768566
rs10489256	172595424	rs12568655	172700955	rs12093966	172770881
rs12564876	172603655	rs10912789	172701377	rs7550472	172772203
rs7536987	172603739	rs6684141	172703066	rs6668096	172773104
rs12073751	172608938	rs10489261	172707306	rs10912807	172782989
rs10912773	172610328	rs7515116	172710277	rs12077529	172785635
rs12084119	172612899	rs12076548	172714766	rs2072758	172792540
rs12091056	172620231	rs10912791	172715059	rs7530265	172800364
rs4651019	172620840	rs12079334	172716576	rs3920486	172803475
rs10912774	172623467	rs2901818	172722000	rs1474575	172805324
rs2860955	172627141	rs6658315	172725722	rs7414200	172805581
rs2901815	172633165	rs12065454	172727987	rs12080535	172805593
rs1883262	172636865	rs4652494	172731622	rs12079879	172807638
rs7413513	172638924	rs727279	172731787	rs16847206	172807930
rs2860959	172639465	rs12064743	172732407	rs11805578	172808935
rs10912779	172640072	rs7522253	172732741	rs2038025	172810473
rs12090860	172640927	rs7521870	172733000	rs6691118	172813559
rs12064126	172641073	rs1013769	172734831	rs10489264	172820071
rs11810824	172643984	rs6425283	172735614	rs16847237	172821039
rs11799704	172649401	rs4652500	172736417	rs12082012	172824490
rs7523263	172650303	rs12071794	172736528	rs7555533	172825744
rs6425279	172654478	rs2901820	172740962	rs6672148	172839777
rs4652422	172655262	rs12564992	172744723	rs4451598	172842337
rs4233181	172655458	rs2281011	172745651	rs4615901	172845193
rs4652425	172655656	rs2281010	172745678	rs6683602	172853376
rs10489258	172656208	rs2281009	172746100	rs12060177	172854306
rs10798313	172656756	rs10912797	172746986	rs10912821	172859434
rs12565430	**172667160**	rs16847121	172749056	rs11804941	172859835
rs12077381	172675327	rs10912800	172749700	rs10912822	172860251
rs12078960	172676652	rs6668053	172750900	rs10912823	172861363
rs6425281	172685545	rs4652512	172751280	rs10912824	172861607
rs16847018	172686295	rs10798319	172752744	rs16847257	172861795

Table 032 – LD Block 031 – Chromosome 1					
rs12564848, rs12565430 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12083972	172690688	rs12092811	172764575	rs6677874	172864171
rs16847025	172692481	rs909533	172767189	rs6667107	172864428
rs10489260	172693079	rs6681970	172768459	rs10912828	172871462
rs10912829	172871655	rs3862941	172925179	rs333436	172974830
rs16847271	172871793	rs332764	172928817	rs2760057	172979145
rs395109	172876994	rs332763	172929243	rs7523516	172981506
rs2760058	172877081	rs332772	172931501	rs16847402	172981674
rs333454	172889700	rs333471	172940823	rs3117838	172984966
rs333453	172890393	rs398350	172941929	rs1923818	172985498
rs11806996	172890545	rs332786	172949345	rs10494493	172987060
rs333422	172899928	rs17842156	172950811	rs332801	172988953
rs333423	172902318	rs2146564	172951975	rs332800	172989228
rs2060158	172903140	rs332779	172952384	rs10158096	172991078
rs333438	172908543	rs332783	172955021	rs1813136	172992417
rs2771401	172914063	rs17842157	172955203	rs1793307	172994477
rs458242	172915508	rs332784	172955688	rs1754351	172998219
rs467437	172915622	rs170768	172956548	rs6673649	173000185
rs16847335	172918507	rs10494492	172959260	rs1622802	173001827
rs16847337	172918882	rs332795	172962546	rs6692753	173004080
rs7543502	172920324	rs459078	172969533	rs6696465	173005461
rs332767	172922147	rs162815	172974553		

Table 033 – LD Block 032 – Chromosome 1					
rs4610965 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12748436	176027732	rs4650975	176033722	rs4535964	176038237
rs12143741	176028437	rs4348685	176034251	rs4618929	176039338
rs6425445	176028684	rs12026179	176035528	rs4442331	176039438
rs12728890	176029455	rs4545298	176036122	rs12065872	176039517
rs7411090	176029563	rs4072161	176036310	rs4532784	176039722
rs6425446	176031200	rs4478775	176036720	rs4650976	176044073
rs6664268	176031329	rs10913424	176037213	rs4650977	176044231
rs3922648	176033076	rs11585009	176037491	rs12135579	176044714
rs3922649	176033239	rs4652267	176037601	rs10913431	176045593
rs3922650	176033317	rs11581129	176037754	rs12125768	176046099

Table 034 – LD Block 033 – Chromosome 1					
rs12058015 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10911506	182320392	rs12145284	182360443	rs1409814	182382513
rs7522626	182322092	rs12407763	182366073	rs6678499	182382923
rs1409813	182324982	rs10911517	182376313	rs10797941	182383603
rs12058015	**182326904**	rs11585756	182377343	rs4651171	182386601
rs12081004	182333462	rs10911518	182377988	rs12729638	182387273
rs971572	182335131	rs732812	182379868	rs4651172	182389997
rs1887296	182338873	rs2113795	182379934	rs4650654	182392352
rs12725276	182349253	rs890063	182380191	rs12086203	182393144
rs3845468	182352656	rs1034477	182380662	rs6424925	182394887

Table 035 – LD Block 034 – Chromosome 1					
rs1927247 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16842798	196561754	rs6660793	196578583	rs16842856	196583968
rs6672260	196562301	rs7547283	196581381	rs12080584	196583989
rs12145410	196563734	rs16842841	196581516	rs12065432	196584013
rs7544933	196564473	rs12562731	196582364	rs1556018	196584159
rs12725488	196564758	rs1556016	196582449	rs12239422	196585386
rs4525073	196565767	rs1556017	196582557	rs4915279	196585684
rs957389	196569112	rs4915278	196582821	rs7539570	196587607
rs957388	196569260	rs12079181	196583045	rs1998996	196587980
rs7555312	196571159	rs1927246	196583322		
rs7521967	196573483	rs1927248	196583640		

Table 036 – LD Block 035 – Chromosome 1					
rs2821218, rs2821217 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2802776	201795433	rs2798636	201805989		

Table 037 – LD Block 036 – Chromosome 1					
rs2999494, rs3747634, rs2271424 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2271424	**202669934**	rs3747636	202670282	rs16853666	202670479
rs16853668	202671534	rs12407668	202684540	rs1008833	202692918
rs1002779	202671721	rs3106366	202684595	rs2137255	202692996
rs3014629	202672657	rs3106367	202684609	rs16853742	202693984
rs1877394	202673604	rs2271426	202684768	rs3014601	202694240
rs4626956	202673921	rs2271427	202684821	rs2999488	202694556
rs9658849	202675009	rs6660789	202685294	rs2999486	202695075

Table 037 – LD Block 036 – Chromosome 1					
rs2999494, rs3747634, rs2271424 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs3747635	202677418	rs2999492	202685512	rs2271414	202696461
rs4553256	202677767	rs2942127	202686690	rs2942139	202696817
rs1107339	202678565	rs3014638	202687252	rs2999484	202697085
rs2292459	202679920	rs2942128	202687284	rs16853770	202698859
rs12077886	202680609	rs16853715	202687767	rs2271415	202699716
rs3014634	202681405	rs2942130	202688375	rs12092943	202701550
rs3747633	202682136	rs3014597	202689154	rs16853773	202702689
rs3122288	202682637	rs3765156	202691651	rs16853781	202704303
rs3827534	202683124	rs2942143	202692054		

Table 038 – LD Block 037 – Chromosome 1					
rs898388 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6692377	202715780	rs12039365	202755310	rs2369244	202781922
rs6594014	202716057	rs4951393	202756180	rs2290854	202782648
rs7519417	202716575	rs12041243	202757093	rs3789050	202783108
rs4951384	202719137	rs3789052	202760906	rs1563828	202783200
rs12402641	202719402	rs3789051	202761059	rs4245739	202785465
rs11240748	202719943	rs4252685	202763479	rs10900596	202789080
rs7556371	202723959	rs4252686	202763518	rs10900597	202789112
rs10494852	202724409	rs2169137	202764536	rs10900598	202792191
rs1398148	202724951	**rs898388**	**202766880**	rs1046874	202793683
rs11240751	202728673	rs4252697	202768006	rs16853958	202794967
rs10900594	202736752	rs10900595	202778225	rs11801299	202795707
rs4951389	202742457	rs2290853	202778327	rs12125533	202795925
rs12031912	202742736	rs4252717	202778723	rs12030639	202797547
rs12028476	202742984	rs4252718	202778818	rs16853967	202798246
rs1380576	202754901	rs4252725	202779879	rs12029692	202798946
rs4951080	202799907	rs6669246	202824184	rs10900601	202838673
rs6681905	202802412	rs4951407	202824693	rs12143943	202838694
rs4951401	202804271	rs12043569	202826627	rs16854043	202841840
rs930947	202807820	rs4951409	202827613	rs4950953	202842104
rs7541589	202809144	rs2169136	202830860	rs11584700	202843606
rs12039454	202809203	rs2887429	202831635	rs7541449	202844931
rs885012	202810624	rs6682208	202832806	rs1563827	202845762
rs12730457	202814755	rs11240761	202833323	rs898387	202845996
rs10793765	202815998	rs11240762	202833622	rs898386	202846320
rs10793766	202816119	rs2369246	202834385	rs898385	202846483
rs12038102	202818030	rs6594018	202834775	rs868097	202846762
rs16854023	202818453	rs6594019	202835233	rs2045624	202851008

Table 038 – LD Block 037 – Chromosome 1					
rs898388 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs12130686	202820680	rs11240764	202835999	rs3795567	202852361

Table 039 – LD Block 038 – Chromosome 1					
rs3789044 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs11588857	202853670	rs3747630	202854763	**rs3789044**	**202855724**

Table 040 – LD Block 039 – Chromosome 1					
rs7544212 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1925715	226770067	rs12563568	226787103	rs12046644	226850294
rs1925716	226774162	rs10916340	226787902	rs4344301	226850882
rs12026460	226779973	rs10916342	226789132	rs6672815	226851530
rs10916336	226781368	rs1925721	226795464	rs10916348	226852428
rs10916337	226781525	rs942851	226797291	rs4654723	226853203
rs11586639	226782328	rs744668	226798300	rs7516236	226855019
rs11588356	226782403	rs1011878	226807679	rs7355046	226859869
rs10916338	226782546	rs7415895	226807770	rs6658934	226862774
rs7520211	226783164	rs6426507	226849409	rs6661618	226862809
rs12062779	226784285	rs6426509	226849866		

Table 041 – LD Block 040 – Chromosome 1					
rs12028618 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs11806353	231903692	rs657931	231913386	rs675862	231921365
rs7523037	231905895	rs603932	231913499	rs633610	231921606
rs694701	231906847	rs9424536	231915027	rs600400	231922596
rs9424535	231907550	rs12409398	231915846	**rs12028618**	**231923474**
rs597911	231908388	rs16859441	231917643	rs9424538	231923545
rs596623	231908635	rs611978	231918010	rs16859461	231923740
rs12408780	231908870	rs12239284	231918272	rs6691257	231924157
rs542473	231909111	rs12239323	231918381	rs6659959	231925526
rs10910249	231909820	rs9424433	231918782	rs12144732	231925631
rs4142987	231910418	rs11799841	231920035	rs12757689	231925649
rs615925	231912308	rs12734057	231920498	rs9424437	231926965
rs12730679	231912882	rs12734282	231920659	rs525573	231928624

Table 042 – LD Block 041 – Chromosome 2					
rs6738683 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12618628	3707868	rs1594317	3711838	**rs6738683**	**3720031**
rs6732295	3708752	rs1594316	3712039	rs2303902	3722603
rs13022803	3709853	rs12994630	3713055	rs6730148	3726846
rs6743352	3710421	rs1367277	3713380		
rs11123612	3710462	rs872877	3713701		

Table 043 – LD Block 042 – Chromosome 2					
rs10197609, rs10200485, rs6724621, rs10205728 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16866052	7324914	rs4669173	7333128	rs13405590	7334707
rs17629326	7325299	**rs10205728**	**7333712**	rs1594314	7334973
rs16866054	7325314	rs10205823	7333809	rs11884070	7336308
rs7565817	7326920	rs10183292	7334185	rs11901709	7336478
rs2013746	7328173	rs13007576	7334228	rs12473073	7336812
rs16866055	7329195	**rs10200485**	**7334345**	rs12478133	7336994
rs1430298	7330523	rs11898813	7334460	rs12473199	7337153
rs6724621	**7330593**	rs11898847	7334522		
rs12990139	7330746	rs13013561	7334668		

Table 044 – LD Block 043 – Chromosome 2					
rs3111424 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2914424	8384366	rs2630736	8397404	rs3021387	8410374
rs3102956	8384895	rs2931136	8398750	rs3097277	8412243
rs3097269	8388553	rs3102948	8401041	rs1473232	8415630
rs7567352	8388687	rs379938	8402222	rs3097285	8418613
rs3111421	8390767	**rs3111424**	**8404110**	rs3097284	8418616
rs3097278	8393065	rs9287698	8404747	rs6431935	8418924
rs2562002	8393114	rs744337	8405195	rs3097283	8419189
rs3111422	8394626	rs3111425	8405236		
rs3102950	8395842	rs1807241	8405594		

Table 045 – LD Block 044 – Chromosome 2					
rs746335, rs6733006 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6760764	12212326	rs6760764	12212326	rs1347803	12233042
rs13399680	12213089	rs13399680	12213089	rs11673980	12233137
rs731395	12214033	rs731395	12214033	rs11674025	12233218
rs746324	12214089	rs746324	12214089	rs13417304	12233316

Table 045 – LD Block 044 – Chromosome 2					
rs746335, rs6733006 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11685897	12216450	rs11685897	12216450	**rs6733006**	**12233521**
rs748239	12218482	rs748239	12218482	rs13417546	12233577
rs12692468	12221040	rs12692468	12221040	rs13391518	12233732
rs6432266	12221838	rs6432266	12221838	rs10197563	12233752
rs3954862	12222204	rs3954862	12222204	rs13382759	12233820
rs3863945	12222294	rs3863945	12222294	rs13382777	12233871
rs3906769	12222474	rs3906769	12222474	rs10167975	12234419
rs3906767	12222673	rs3906767	12222673	rs10200477	12234513
rs13029219	12222925	rs13029219	12222925	rs6740824	12235404
rs6713081	12222940	rs6713081	12222940	rs6743976	12235537
rs4668748	12223520	rs4668748	12223520	rs6432267	12235917
rs6730691	12224195	rs6730691	12224195	rs13396826	12237602
rs10197240	12224656	rs10197240	12224656	rs4669822	12238082
rs4456673	12225251	rs4456673	12225251	rs4669824	12238145
rs12617169	12225261	rs12617169	12225261	rs11674749	12238427
rs12624105	12225399	rs12624105	12225399	rs4669825	12238520
rs11901005	12225737	rs11901005	12225737	rs11681932	12239137
rs12996777	12239560	rs7578731	12241138	rs6755003	12243487
rs10185097	12239839	rs7598791	12242027	rs17618039	12244288
rs10170534	12239933	rs1370931	12242193	rs6432268	12245425
rs7558139	12240055	rs4637077	12242597		

Table 046 – LD Block 045 – Chromosome 2					
rs13420742, rs12993616 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4482482	18939390	rs4832639	18952795	rs4131344	18969290
rs12473637	18940260	rs12615557	18953213	rs6531134	18973851
rs12474479	18940417	rs11686620	18953290	rs4131448	18974246
rs4263113	18941281	rs13421589	18955143	rs6531135	18975929
rs4485566	18941367	rs6761038	18958065	rs2346578	18977485
rs4077329	18941742	rs10174846	18958579	rs2346573	18979717
rs6531131	18942196	rs12464512	18959875	rs7599120	18980832
rs4832635	18943168	rs7560403	18960199	rs7597870	18985785
rs4832461	18944726	rs7602667	18960433	rs4377298	18989889
rs4832636	18944872	rs4605375	18963082	rs10167706	18992211
rs6531132	18946194	rs4476350	18963847	rs10194890	18992706
rs3900754	18946934	rs4240226	18964493	rs2881431	18992845
rs11096562	18947858	rs10201942	18965058	rs4571019	18992980
rs7603714	18948836	rs11096566	18965853	rs6710040	18994661
rs11689941	18949600	rs4832463	18967597	rs6753545	18995623

Table 046 – LD Block 045 – Chromosome 2					
rs13420742, rs12993616 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11691285	18949861	rs4832640	18967624	rs7369883	18996936
rs12710687	18950180	rs11674014	18968389	rs11326270	18997289
rs11096563	18951052	rs4586632	18968582		
rs4832637	18951685	rs4131345	18969221		

Table 047 – LD Block 046 – Chromosome 2					
rs1435849, rs12619827 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12052667	20618584	**rs12619827**	**20619380**	rs2060916	20620381
rs13019753	20619344	rs12620544	20619698	rs11680924	20622386
rs11682088	20622518	rs2117842	20624550	rs730480	20626393
rs6714202	20623270	**rs1435849**	**20626094**	rs12328382	20628451
rs7571940	20624374	rs730479	20626365		

Table 048 – LD Block 047 – Chromosome 2					
rs6714261 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6714231	34862073	rs13395024	34864173	rs1898667	34875923
rs6714261	**34862152**	rs7573294	34864543	rs4586610	34878726
rs6756796	34862357	rs3748925	34865934	rs4670100	34879308
rs13413387	34862369	rs3748926	34866002	rs11124400	34885163
rs7569098	34863155	rs17015647	34867355	rs4670103	34885466
rs13417129	34863547	rs12712404	34873191		

Table 049 – LD Block 048 – Chromosome 2					
rs2034273 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2034273	**43107063**	rs7593137	43107903	rs7588142	43117309
rs2034274	43107331	rs10175942	43112668		
rs7593009	43107797	rs7579915	43114626		

Table 050 – LD Block 049 – Chromosome 2					
rs11889205 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6545847	61298837	rs6545847	61298837	rs7591772	61315904
rs11889205	**61301997**	**rs11889205**	**61301997**	rs17007356	61319008
rs2290324	61302280	rs2290324	61302280	rs4672427	61322754
rs7570707	61305248	rs7570707	61305248		

Table 050 – LD Block 049 – Chromosome 2					
rs11889205 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6739427	61306383	rs6739427	61306383		

Table 051 – LD Block 050 – Chromosome 2					
rs2028884 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1022351	63503235	rs2421952	63603337	rs17618390	63684829
rs10171190	63504298	rs2421954	63607779	rs2604613	63686280
rs10209490	63505500	rs1023820	63618467	rs262472	63687120
rs1022353	63505702	rs6738190	63620703	rs262473	63687317
rs7598973	63505723	rs12713496	63621971	rs262490	63691155
rs10164844	63505907	rs4671515	63622421	rs262491	63694617
rs2421892	63506607	rs12470478	63622812	rs799329	63695216
rs4671061	63507320	rs12472865	63625273	rs4671522	63698421
rs2138791	63508228	rs6717031	63628044	rs262493	63698570
rs1109963	63511609	rs2422011	63628493	rs262494	63698988
rs2292793	63514784	rs1867847	63630659	rs262496	63702995
rs1878505	63520094	rs13025357	63630740	rs262498	63707480
rs1356390	63523129	rs11676682	63631262	rs196124	63707642
rs6736411	63527564	rs2166494	63632132	rs262500	63709511
rs12995715	63530182	rs2121350	63632423	rs174485	63710906
rs12464471	63539932	rs1550860	63633043	rs190519	63711929
rs2034270	63545951	rs2422008	63634109	rs262501	63712161
rs2166498	63547125	rs2422007	63634280	rs196125	63712772
rs2028887	63569727	rs17618045	63646759	rs262502	63713227
rs1446568	63571857	rs7584404	63647846	rs262503	63713941
rs2028886	63572241	rs959195	63657629	rs262504	63714739
rs6546007	63578299	rs6737621	63661125	rs187801	63720950
rs989527	63580295	rs3754540	63666962	rs185499	63721027
rs1867849	63580436	rs1109027	63668710	rs262476	63724111
rs10496102	63584743	rs2278718	63669305	rs262477	63724463
rs1446565	63585079	rs10469944	63670176	rs112194	63730376
rs6735907	63585108	rs10469945	63670280	rs262482	63730546
rs1446564	63585186	rs6546018	63670926	rs262483	63730750
rs10865338	63586013	rs6546019	63670944	rs262484	63731519
rs10168545	63587788	rs1446569	63671818	rs1869700	63733488
rs9789351	63594118	rs10200146	63672852	rs262487	63734021
rs7576316	63594626	rs11125979	63677810	rs262488	63735683
rs964903	63595052	rs1255	63679438	rs6751759	63736831
rs1031221	63596314	rs7606045	63680032	rs262507	63737116
rs6546009	63599246	rs964880	63680436	rs262508	63738784

Table 051 – LD Block 050 – Chromosome 2					
rs2028884 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs262510	63740216	rs171901	63755204	rs6723875	63765004
rs166385	63741527	rs171902	63756740	rs11125981	63765265
rs262517	63744765	rs262528	63756871	rs2168275	63765840
rs262521	63745989	rs262531	63758455	rs13417333	63767344
rs2592386	63747568	rs262534	63759879	rs6722981	63770226
rs1348804	63749176	rs262536	63760430	rs6723088	63770330
rs1348806	63749388	rs262537	63760835	rs10168461	63770725
rs2121353	63752834	rs6546020	63762636		
rs262527	63753796	rs7580520	63762682		

Table 052 – LD Block 051 – Chromosome 2					
rs1004630 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1004630	**76357764**	rs10519328	76360709	rs17012458	76363725
rs1949924	76358516	rs1526627	76362906	rs6743740	76364891
rs1526631	76359903	rs1526624	76363246	rs13025355	76365075
rs11126513	76359968	rs17754897	76363372	rs17012460	76366895
rs12991368	76360473	rs12468320	76363711	rs1526620	76369529

Table 053 – LD Block 052 – Chromosome 2					
rs12991550 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1609007	76372748	rs4852400	76383089	rs4853216	76390168
rs13393516	76375055	rs6760707	76386590	rs885187	76391112
rs7587052	76375620	rs6747714	76387022	rs17574634	76393873
rs13397174	76375971	rs6748106	76387304	rs12713866	76394415
rs13397093	76376027	rs12622814	76387610	rs13422380	76398701
rs13422561	76376089	rs12616451	76387964	rs13400755	76400013
rs12991550	**76377756**	rs10196032	76388462	rs6742995	76400531
rs13006506	76379828	rs6747727	76388982	rs1157512	76401169
rs7567520	76382920	rs17012485	76389267	rs10177279	76401849

Table 054 – LD Block 053 – Chromosome 2					
rs4852403, rs17515858 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2176760	76420280	rs6547075	76433333	**rs17515858**	**76439840**
rs2049548	76420715	rs6758293	76433578	rs10207494	76440627
rs2049547	76420766	rs12473793	76434073	rs10183878	76440708
rs1915005	76421076	rs6730042	76434109	rs12613843	76441241

Table 054 – LD Block 053 – Chromosome 2					
rs4852403, rs17515858 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs12463599	76423184	rs12465830	76434184	rs5003857	76442525
rs1568377	76423929	**rs4852403**	**76435416**	rs7605796	76444154
rs6758645	76424948	rs7420310	76436744	rs2203913	76444978
rs12622906	76424979	rs12477370	76437531	rs1526638	76445730
rs4853238	76432083	rs1121271	76438898	rs1526641	76450695
rs4853241	76433029	rs4569502	76439256	rs12622011	76452095

Table 055 – LD Block 054 – Chromosome 2					
rs6547260 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6732862	79772080	rs7565867	79780098	rs6547264	79785436
rs1511182	79774055	rs955749	79781820	rs7587882	79785684
rs11677290	79774669	rs13002542	79783694	rs7575601	79785745
rs13027289	79775219	rs13028762	79783777	rs6738702	79785802
rs11695685	79776310	rs17785176	79784450	rs6738834	79785937
rs6547259	79779235	rs17017611	79784647	rs11897380	79787060
rs6547260	**79779477**	rs1511191	79784705		

Table 056 – LD Block 055 – Chromosome 2					
rs994984 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6547277	79849473	rs1397688	79857487	rs17017866	79861235
rs1397695	79850074	rs17017857	79858320	rs960672	79861335
rs1397696	79850281	rs885603	79858915	rs6547280	79861764
rs1397694	79853908	rs6761480	79860050	rs6727867	79862406
rs1159457	79855782	rs4852519	79860775	rs4602245	79862751
rs11126742	79856031	rs4852521	79860850	rs994985	79863566
rs17040669	79856820	rs6736573	79861011	**rs994984**	**79863883**
rs10496232	79857271	rs2861911	79861225	rs1567531	79864348
rs972218	79864937	rs17017910	79869028	rs10174601	79877814
rs972217	79865124	rs11899110	79869204	rs7557521	79878355
rs2861907	79865260	rs10865444	79869480	rs7557595	79878381
rs7575453	79865546	rs7599937	79870026	rs12612000	79878743
rs7575462	79865564	rs7600023	79870102	rs12615043	79878884
rs975054	79866557	rs7587785	79870223	rs4284854	79879448
rs975053	79866669	rs6752029	79870455	rs11901747	79879578
rs975052	79866739	rs6755157	79870623	rs11886038	79879696
rs4350772	79867082	rs12996687	79871039	rs11886039	79879697
rs6733064	79867529	rs951641	79871300	rs11901772	79879849

Table 056 – LD Block 055 – Chromosome 2					
rs994984 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13402210	79868346	rs4852524	79872333	rs1160581	79879940
rs11897821	79868563	rs4852526	79872584	rs1160580	79879967
rs11893173	79868593	rs2048434	79875334	rs2063436	79881225
rs1397687	79868894	rs6751684	79877360	rs11886834	79884399

Table 057 – LD Block 056 – Chromosome 2					
rs10166591, rs868032 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10184283	79884508	**rs868032**	**79888078**	rs1877190	79888956
rs6708753	79885786	rs868031	79888123	rs10193840	79889053
rs10166591	**79887715**	rs7605056	79888880		

Table 058 – LD Block 057 – Chromosome 2					
rs12470539 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10188950	81874562	rs10186387	81877556	rs10198252	81878837
rs10202242	81874586	rs10209777	81877567	rs10174961	81878891
rs10178777	81874626	rs10171375	81877708	rs10175288	81879374
rs10178974	81874773	rs10183975	81877983	rs12232951	81879405
rs1897400	81876238	rs13390353	81878450	rs12233070	81879609
rs2862587	81876441	rs10195570	81878559	rs12233145	81879655
rs1821175	81876753	rs10174424	81878589	rs1368033	81879958
rs9309584	81877312	rs10174446	81878671	rs1368034	81880189
rs10191216	81880491	rs10183287	81893820	rs11126837	81928964
rs1864799	81880577	rs9309587	81894036	rs2862590	81931991
rs10181275	81880645	rs10207320	81894148	rs2862591	81932088
rs1368035	81880768	rs1347023	81894603	rs1432178	81932797
rs1368036	81880994	rs12479117	81895194	rs1432179	81933273
rs1368037	81881037	rs12467326	81895278	rs1432180	81933368
rs1368038	81881278	rs12467329	81895326	rs2862649	81938881
rs1368039	81881461	rs1432161	81895566	rs991869	81940391
rs1368040	81881543	rs1432164	81895843	rs7576203	81942101
rs1368041	81881606	rs10190286	81896035	rs1432186	81944457
rs4852626	81882449	rs1318877	81896325	rs11126840	81944664
rs4852627	81882744	rs10167089	81896360	rs10193667	81947604
rs4852628	81882914	rs1432165	81896724	rs6715448	81948077
rs12471501	81882964	rs12465257	81897026	rs10520310	81949618
rs9989827	81883386	rs13401844	81897198	rs4852646	81952011
rs9989828	81883571	rs7562053	81897994	rs10167171	81954374

Table 058 – LD Block 057 – Chromosome 2					
rs12470539 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1821176	81884938	rs12469654	81899431	rs10193768	81954730
rs1835791	81886215	**rs12470539**	**81899633**	rs1897406	81959003
rs1835793	81886286	rs10185894	81900021	rs10520309	81959604
rs4852629	81888163	rs10209893	81900423	rs12714060	81960468
rs10166510	81888727	rs10166031	81901226	rs1897407	81960977
rs10190986	81889383	rs7603865	81902112	rs1368046	81961520
rs13417202	81890603	rs10192924	81902372	rs1368047	81961988
rs12714045	81890626	rs10169468	81902414	rs11900849	81962688
rs1432158	81891951	rs1432170	81905623	rs4487109	81963691
rs1432159	81891998	rs755847	81908739	rs1897402	81963813
rs1432160	81892078	rs12467935	81909798	rs1897403	81964036
rs11900086	81892382	rs6547388	81912586	rs10185906	81964997
rs1968418	81892601	rs4852638	81916576	rs12714061	81966600
rs11126830	81892893	rs4852640	81920335	rs1835795	81966934
rs7604077	81893318	rs10170354	81927265	rs1368044	81967665
rs7590403	81893461	rs1432174	81927967	rs1319284	81967708
rs10206956	81893578	rs11885185	81928203	rs2116528	81969021
rs9309586	81893624	rs1432175	81928556	rs11694552	81969855
rs10183187	81893678	rs1432177	81928745	rs12617116	81970529
rs1432182	81972447	rs12995713	81996984	rs2711443	82023089
rs959534	81973181	rs4241240	81997228	rs2685710	82023773
rs1521896	81976144	rs7424494	82000057	rs2947959	82024484
rs1521897	81976239	rs4281925	82002348	rs10209091	82024578
rs9309591	81976636	rs10520308	82003125	rs2947960	82024791
rs12714062	81976856	rs10171713	82003247	rs2947961	82025336
rs12612985	81977597	rs10865458	82006888	rs2711458	82032275
rs4852651	81977854	rs12612962	82007871	rs2685727	82036809
rs10186308	81978997	rs7605217	82008006	rs1464474	82037704
rs2862650	81979914	rs7425838	82008452	rs1949678	82037831
rs10177447	81980285	rs4575748	82008651	rs1521899	82039614
rs10177541	81980376	rs2952964	82010545	rs2711431	82040292
rs10203673	81980694	rs2685711	82012587	rs2685729	82040863
rs6735863	81983383	rs2685713	82013423	rs2685695	82041430
rs6720811	81983454	rs2685714	82013676	rs2685696	82041522
rs4852205	81984149	rs2711469	82013842	rs1033329	82042953
rs6547396	81986451	rs2947953	82013969	rs1402883	82043126
rs12714065	81986562	rs2947954	82014046	rs2711425	82045728
rs6547397	81986837	rs2685726	82016224	rs1608008	82046160
rs1829689	81988166	rs2711474	82016771	rs2711452	82050456
rs1402882	81988610	rs2711475	82017128	rs2685717	82052137
rs10165636	81988884	rs2711476	82017288	rs909047	82054261

Table 058 – LD Block 057 – Chromosome 2					
rs12470539 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11895085	81989219	rs2685725	82017346	rs2685198	82057036
rs11900641	81989279	rs2711477	82017774	rs2711455	82057543
rs6752184	81989526	rs2711478	82018653	rs2711454	82057565
rs12612576	81989726	rs2711479	82019672	rs1521668	82058507
rs12714066	81991258	rs2685724	82020045	rs2685200	82059138
rs10164696	81991985	rs2685723	82020226	rs2685721	82060067
rs10199960	81992518	rs2952961	82020445	rs2711451	82060583
rs17021170	81993123	rs17640902	82021976	rs2711450	82060878
rs4852206	81993862	rs2685708	82022381		
rs12611774	81996289	rs2947958	82022957		

Table 059 – LD Block 058 – Chromosome 2					
rs315920 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17042917	113587134	rs1794066	113602821	rs432014	113605050
rs315920	**113589489**	rs1794067	113602855	rs454078	113605264
rs4251961	113590938	rs1794068	113602974	rs380092	113605371
rs4251967	113591439	rs419598	113603678	rs431726	113605477
rs315919	113592684	rs423904	113603733	rs452204	113605532
rs2637988	113593250	rs446433	113603744	rs3087266	113605571
rs4251984	113593697	rs495282	113603765	rs4252019	113605590
rs4251985	113593884	rs495410	113603809	rs973635	113605605
rs928940	113593966	rs442710	113603870	rs440286	113605940
rs3213448	113595768	rs408392	113603929	rs579543	113606102
rs315936	113597418	rs2071459	113603954	rs315952	113606775
rs4252001	113600154	rs447713	113604143	rs315951	113607057
rs444413	113602297	rs128964	113604274		
rs3181052	113602520	rs451578	113605028		

Table 060 – LD Block 059 – Chromosome 2					
rs17452532, rs1509742 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1912241	115477468	rs13000312	115506253	rs17043949	115534219
rs1396921	115484175	rs4578864	115508455	rs1024114	115534456
rs989036	115484431	rs17043916	115508890	rs17043951	115534766
rs989037	115484703	rs6711971	115509155	rs17043962	115534942
rs1396922	115485355	rs1949054	115509695	rs17043964	115535441
rs11688222	115485547	rs2175175	115510893	rs1033024	115535883
rs6716454	115486355	rs12328790	115512506	rs1033025	115536298

Table 060 – LD Block 059 – Chromosome 2					
rs17452532, rs1509742 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12611989	115487411	rs12328529	115512842	rs11897597	115538112
rs12618420	115488905	rs981899	115515591	rs17452616	115539225
rs6542239	115489626	rs11694256	115517079	rs17043967	115539312
rs1848759	115495216	rs1396925	115517195	rs13029654	115540092
rs4530379	115499039	rs13415710	115521420	rs11888908	115540148
rs7607251	115500172	rs6709267	115529748	rs11892585	115540185
rs1355224	115505063	rs8179808	115533100	rs2901277	115543031
rs10194214	115505757	rs17043946	115534005	rs7593500	115543782

Table 061 – LD Block 060 – Chromosome 2					
rs10460462, rs6724570, rs10460453 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4390770	122306788	rs6761482	122311250	rs6753114	122316586
rs7593218	122307161	rs12614797	122315053	**rs10460453**	**122317772**
rs9808536	122307541	**rs10460462**	**122316276**	rs13405696	122323106
rs4848729	122310625	**rs6724570**	**122316381**	rs6731977	122323715

Table 062 – LD Block 061 – Chromosome 2					
rs13029963 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4848739	122471772	rs908674	122555805	rs11122882	122606582
rs9646911	122472740	rs10864875	122569896	rs4848747	122608848
rs4430964	122478665	rs12623552	122571127	rs11675274	122613621
rs12053456	122485867	rs1922180	122574081	rs1432300	122614112
rs17779391	122492935	rs17007220	122584225	rs13005471	122614735
rs908676	122493681	rs17007222	122584523	rs4848748	122614852
rs1878592	122494139	rs2902342	122585219	rs11122883	122621645
rs17007114	122494730	rs1368106	122586925	rs4848750	122623290
rs6714807	122504304	rs7596715	122587784	rs1864824	122623589
rs6741948	122514148	rs1821184	122590048	rs11695432	122624578
rs4848168	122526319	rs2902343	122590384	rs11685781	122625481
rs1517711	122528585	rs12986470	122592824	rs17176479	122628848
rs4848741	122534861	rs2217582	122597201	rs2043237	122629542
rs6734612	122536830	rs1922181	122600588	rs17780857	122630047
rs908678	122549109	**rs13029963**	**122601190**	rs1982057	122632329
rs908677	122549787	rs11678278	122601369	rs17176605	122633541
rs874107	122552039	rs4848170	122603274	rs7601910	122634754
rs12616653	122552911	rs6746053	122605593		
rs1733820	122553663	rs737166	122605823		

Table 063 – LD Block 062 – Chromosome 2					
rs974625 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13420567	133361997	**rs974625**	**133362363**	rs1348960	133364627
rs13411777	133362067	rs6707526	133362792	rs1374743	133366756

Table 064 – LD Block 063 – Chromosome 2					
rs2966393 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4954669	140600616	rs4954821	140609145	rs13030972	140616995
rs13020557	140602206	**rs2966393**	**140612165**	rs2966395	140617074
rs12327998	140608313	rs1969503	140612550	rs1527843	140618731
rs6430872	140608609	rs2966394	140612594	rs2950611	140618853

Table 065 – LD Block 064 – Chromosome 2					
rs2052807 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17678683	145003029	rs13034331	145009567	rs17689809	145014436
rs10928220	145003493	rs13034360	145009624	rs17689833	145014793
rs1469346	145003549	rs17740744	145011832	rs16823846	145016414
rs16823835	145004811	**rs2052807**	**145012733**	rs13012279	145017365
rs4662375	145007448	rs4662376	145013486	rs13018460	145020046
rs10173242	145008967	rs4662377	145013557		

Table 066 – LD Block 065 – Chromosome 2					
rs2444264 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2432938	152005418	rs2444260	152023795	rs1047957	152042019
rs2444270	152009552	rs2444259	152024062	rs4500942	152042826
rs2432941	152011417	rs11690396	152025641	rs3815851	152044674
rs11689442	152012055	rs2123465	152028364	rs16830085	152044734
rs2432946	152015143	rs2444257	152030341	rs16830086	152047235
rs2444264	**152019174**	rs16830059	152031332	rs11680579	152048931
rs2444263	152019816	rs2444274	152033035	rs16830090	152050727
rs7422009	152021785	rs1065177	152039664		
rs16830047	152022631	rs16830067	152039991		

5

Table 067 – LD Block 066 – Chromosome 2					
rs13009580 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17399537	153082368	rs10182254	153083632	rs13404703	153084451
rs9967814	153082959	rs9967819	153083667	rs11686482	153086085
rs13427485	153086232	**rs13009580**	**153088751**	rs10180234	153095625
rs4664114	153086705	rs10497102	153089090	rs2678296	153095848
rs4664592	153086820	rs4664594	153090044	rs17327752	153096733
rs4664593	153086898	rs2678294	153091885	rs11678890	153096919
rs6760321	153087614	rs10209069	153092501	rs2346182	153097194
rs16831279	153087633	rs13031546	153093101	rs2346183	153097978
rs6706231	153087832	rs17399648	153094111	rs2577185	153098097
rs7421149	153088550	rs9288108	153095079	rs16831307	153099168

Table 068 – LD Block 067 – Chromosome 2					
rs1900833 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6710727	168291034	rs17582071	168293306	rs1448842	168295304
rs10199851	168291292	rs11676513	168293497	rs10180263	168296192
rs7589079	168291390	rs11687831	168293799	rs1375316	168296321
rs1900833	**168292227**	rs6752240	168294462	rs10173035	168297565

Table 069 – LD Block 068 – Chromosome 2					
rs10497642 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs12463971	184508858	rs10205814	184526488	rs10931109	184536552
rs2165172	184509228	rs11883645	184528266	**rs10497642**	**184536677**
rs12466174	184510854	rs6434051	184528948	rs10177727	184537519
rs6738267	184513500	rs7355621	184529311	rs1351909	184538629
rs7592719	184518655	rs9288100	184531578	rs16825306	184541390
rs1385373	184521184	rs1872375	184531767	rs11688891	184541495
rs4350706	184522872	rs1484932	184533839	rs16825318	184544743
rs4597475	184522906	rs10931108	184534306	rs6731685	184545901
rs10199461	184524763	rs12464511	184534682	rs4666951	184554290
rs10497641	184525992	rs11887867	184536203	rs4638756	184557354

Table 070 – LD Block 069 – Chromosome 2					
rs17430621, rs17508671 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2052794	185163996	rs6715977	185189460	rs12693385	185215474
rs1978573	185167789	rs359875	185189893	rs1021043	185215666
rs359894	185168425	rs17617356	185190400	rs10198049	185217087

Table 070 – LD Block 069 – Chromosome 2					
rs17430621, rs17508671 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11888068	185168540	rs17508595	185191353	rs994653	185218230
rs13026173	185169087	rs11900132	185192057	rs6434095	185221572
rs10497655	185170286	rs17617408	185193056	rs12469299	185221741
rs359895	185171430	rs359884	185194579	rs7608284	185223182
rs10203158	185175082	rs359885	185195718	rs7608194	185223234
rs12693381	185175154	rs12613195	185197466	rs6434096	185224969
rs12693382	185175906	rs359886	185197652	rs10197925	185226081
rs12693383	185177108	rs17617468	185197675	rs6738793	185230401
rs435822	185177547	rs359892	185205572	rs2369593	185232887
rs415350	185177748	rs6434092	185206248	rs899846	185234248
rs13393273	185185922	rs7557843	185206483	rs7581009	185235876
rs12693384	185186281	rs7591757	185208391	rs2035320	185237783
rs10202700	185187588	rs2054548	185210269	rs9288106	185237910
rs1427150	185188878	rs1480478	185213801		

Table 071 – LD Block 070 – Chromosome 2					
rs10497657, rs10497661, rs1114248 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17508713	185238409	rs10173509	185261505	rs1383309	185276157
rs899847	185238736	rs17508877	185264316	rs7583953	185276884
rs11891662	185239248	rs1038197	185265516	rs7586454	185282872
rs7597593	185241825	rs1038198	185265588	rs13389014	185285277
rs6742182	185243866	rs7588753	185265835	rs13389241	185285481
rs6728764	185247175	rs16826158	185266325	rs13414832	185285585
rs10184629	185252158	rs12104591	185267061	rs1480477	185288116
rs11892742	185252499	rs4308093	185267288	rs1480476	185288232
rs6755921	185253555	rs10186035	185270666	rs13383910	185288842
rs2199882	185254089	rs7568756	185272838	rs6747844	185290796
rs1480481	185255707	rs7585738	185273079	rs1600578	185294627
rs6723680	185256207	rs2199883	185273708	rs1600577	185294728
rs12693387	185256271	rs6730122	185275696	rs6742299	185296004
rs7582887	185297052	rs12693391	185363434	rs10199843	185444870
rs7569229	185297258	rs12693394	185369825	rs6709436	185446878
rs16826178	185299741	rs4294964	185372824	rs11902536	185446980
rs1383307	185301857	rs6751335	185377372	rs1366844	185447592
rs7568843	185302900	rs10211213	185378328	rs10210216	185448260
rs2170202	185307813	rs13012893	185378577	rs11892843	185449379
rs10167859	185312062	rs13012514	185380428	rs13411652	185451486
rs13026742	185313227	rs17431278	185386251	rs1429427	185452198
rs6434100	185314249	rs10201360	185389044	rs10206265	185452597

Table 071 – LD Block 070 – Chromosome 2					
rs10497657, rs10497661, rs1114248 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2170203	185317249	rs13408744	185389297	rs11904676	185458965
rs1480486	185318001	rs7608386	185389958	rs11899082	185462727
rs13384546	185324373	rs17584522	185389975	rs13429132	185464970
rs13417466	185326356	rs13386789	185390229	rs13428955	185464989
rs10190062	185329740	rs6749691	185390984	rs12693399	185465256
rs10172363	185331296	rs2369589	185392187	rs12693400	185466657
rs10206254	185334421	rs4544394	185397916	rs6715910	185467146
rs10206426	185334543	rs13424507	185399870	rs6718067	185469509
rs2369595	185334671	rs9973668	185400742	rs7584503	185470167
rs6712125	185338001	rs13028349	185401794	rs6722425	185470832
rs6728615	185340758	rs16826219	185404359	rs7562384	185471690
rs6732176	185341354	rs12693395	185404852	rs1344707	185474246
rs10174301	185344098	rs7605689	185414101	rs7603001	185475061
rs6759491	185344422	rs10180597	185416677	rs7590852	185475157
rs6716151	185344862	rs7603015	185417232	rs12693401	185475528
rs17617913	185347120	rs10187190	185418423	rs1366840	185476099
rs12693389	185349740	rs7578316	185426412	rs10931155	185476804
rs10176668	185349880	rs12693396	185427419	rs1835172	185478486
rs7603313	185350165	rs7585171	185433862	rs4666994	185479990
rs6434102	185350825	rs7558878	185437407	rs4666995	185480035
rs17431132	185352358	rs11890843	185437549	rs17431742	185481646
rs13017390	185354321	rs13398732	185438832	rs7594906	185485452
rs1987025	185355840	rs13388087	185442949	rs725617	185486507
rs1317210	185357800	rs13401381	185442994	rs1344706	185486673
rs1320080	185358250	rs7588907	185443844	rs13009002	185486847
rs6716235	185363337	rs7564941	185444058	rs7593816	185490557
rs1366839	185491911	rs11901504	185493855	rs2059923	185494219
rs1366838	185492141	rs2059924	185494192		

Table 072 – LD Block 071 – Chromosome 2					
rs17509873 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1583049	185501063	**rs17509873**	**185505653**	rs4667001	185509992
rs6751736	185504816	rs10931156	185505932	rs1366842	185510488
rs6726421	185505087	rs4667000	185506749	rs12477430	185510608
rs6755404	185505473	rs12476147	185509150		

Table 073 – LD Block 072 – Chromosome 2					
rs6733394, rs7603031, rs12616799, rs10190966 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6435169	203461261	rs10197426	203553891	rs7561636	203602472
rs7582720	203461317	rs1351826	203558753	**rs6733394**	**203613420**
rs7560547	203466161	rs1864465	203560873	rs6715752	203621797
rs3933629	203474612	rs1864466	203564702	rs13396160	203622187
rs6719001	203486148	**rs7603031**	**203569111**	**rs4673241**	**203629515**
rs17406900	203492447	rs6435171	203576602	rs10439267	203631692
rs13423520	203494519	rs11691351	203582157	rs7573079	203635796
rs10932004	203514184	rs7579328	203582378	rs7593917	203639257
rs12616799	**203520092**	rs7594048	203586397	rs1122253	203645420
rs6709618	203526820	rs4675310	203589079	rs10181715	203648214
rs3731695	203528520	rs2351524	203589237	rs7601146	203658837
rs7562701	203535894	rs10188105	203590803	rs6435172	203661479
rs10755020	203539041	rs1947983	203590838	rs6755230	203664384
rs2052944	203542646	rs1947984	203590943	rs12693978	203667582
rs1541853	203543422	rs10187018	203597103		

Table 074 – LD Block 073 – Chromosome 2					
rs13032680, rs7609267, rs7595502, rs13032082, rs6730171, rs16839922 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2469962	204064067	rs12622645	204125087	rs7592180	204147868
rs2259819	204065500	rs12616275	204125166	rs7594831	204147946
rs2305417	204068446	rs11901836	204130575	rs7568353	204148004
rs2247380	204072966	rs1174606	204132794	**rs7609267**	**204148227**
rs16839858	204075021	rs1174607	204132911	**rs7595502**	**204148326**
rs2258020	204075026	rs2443796	204133858	**rs16839922**	**204148590**
rs2012774	204078448	rs2222413	204135006	rs12989194	204148673
rs11683935	204086116	rs727361	204135492	rs13013366	204148736
rs2253968	204088736	rs10174652	204135585	**rs13032082**	**204149750**
rs2264235	204095922	rs6723390	204137021	**rs13032680**	**204149802**
rs2250111	204097423	rs4675344	204137803	rs4675348	204150692
rs2264234	204097650	rs11887555	204138338	rs12989998	204150801
rs2469961	204107580	**rs6730171**	**204140849**	rs952172	204150878
rs10176600	204111038	rs2030552	204141429	rs7572405	204152576
rs2245613	204112197	rs7557216	204145004		
rs12618230	204120666	rs1403239	204146443		

Table 075 – LD Block 074 – Chromosome 2					
rs1898536 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13004592	215985236	rs17517509	215993019	rs1250242	216004502
rs7588830	215985917	rs1250248	215995338	rs2577290	216007795
rs1437795	215986740	rs1250249	215995521	rs1250247	216007874
rs10207245	215988767	rs1250250	215997588	rs1250259	216008727
rs724617	215990726	rs2577289	215998392	rs1250229	216012629
rs10199059	215991219	rs1250238	216002908	rs1250233	216015348
rs1347694	215991803	rs1250240	216003259		
rs3796123	215992203	rs1250241	216003557		

Table 076 – LD Block 075 – Chromosome 3					
rs17740964 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1661577	3819692	rs1682914	3819751	rs1561800	3820371
rs998655	3820835	rs12634230	3822250	rs1561802	3825193
rs10510276	3820970	rs1017905	3823080	rs1561801	3825233
rs10510277	3821204	rs17037210	3823702	rs1976077	3825309
rs1682913	3821526	rs750944	3824086		
rs1488454	3821805	rs1372564	3824411		

Table 077 – LD Block 076 – Chromosome 3					
rs7649754 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6802168	3850436	rs17037475	3858521	rs3749351	3861180
rs6804154	3853646	rs13100776	3859057	rs3749350	3861721
rs13083087	3853883	rs17037482	3859459	rs3749349	3861847
rs2120606	3855499	rs2166070	3860463	rs3749348	3861919
rs7610133	3855784	rs17037518	3860609		

Table 078 – LD Block 077 – Chromosome 3					
rs778041 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3844283	10239480	rs779903	10244666	rs4684672	10247775
rs1642736	10240057	rs779902	10244758		
rs779905	10243017	**rs778041**	**10247181**		

Table 079 – LD Block 078 – Chromosome 3					
rs708035 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs708035	**10251163**	rs11717636	10252129	rs11706450	10252866

Table 080 – LD Block 079 – Chromosome 3					
rs982953 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2362186	24478758	rs3903470	24483025	rs982952	24486274
rs17194982	24480134	rs9852634	24485798	rs4353759	24487960
rs10865796	24482382	**rs982953**	**24486257**	rs11719769	24493138

Table 081 – LD Block 080 – Chromosome 3					
rs4858119 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs892940	24513842	rs755292	24521271	rs6550877	24526782

Table 082 – LD Block 081 – Chromosome 3					
rs6763146 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13320790	27626667	rs2642942	27627905	rs12635926	27632310
rs13317121	27626714	rs6761978	27629976	rs7652138	27633324
rs6763146	**27627430**	rs6798285	27630046		

Table 083 – LD Block 082 – Chromosome 3					
rs4390968, rs16756 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6793666	31515880	rs12485856	31518326	rs11918959	31526183
rs16756	**31515992**	rs11926676	31519225	**rs4390968**	**31526784**
rs12485487	31516304	rs4511935	31522700	rs6791590	31527257
rs7641067	31516873	rs12491561	31524957	rs4396931	31527844
rs9830894	31516980	rs7652669	31525512	rs7614942	31527932

5

Table 084 – LD Block 083 – Chromosome 3					
rs28350 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs28350	**42393450**	rs33491	42398594	rs12636553	42402040
rs10049242	42394688	rs33492	42399390	rs33498	42402095
rs33486	42394742	rs33493	42399426	rs33499	42402107
rs33487	42395246	rs33494	42400063	rs33500	42402195

Table 084 – LD Block 083 – Chromosome 3					
rs28350 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs33488	42396971	rs33495	42400890	rs33501	42402581
rs1442269	42398083	rs33496	42401389	rs33503	42402961

Table 085 – LD Block 084 – Chromosome 3					
rs9819913, rs9857128 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11712329	59215814	rs9861942	59216466	rs17060198	59216585
rs17060205	59221376	rs7635687	59236659	rs10780040	59250455
rs11130685	59221541	rs12630729	59236951	rs17060269	59252589
rs994556	59221639	rs2120467	59237230	rs10461039	59255113
rs1443936	59222205	rs2165999	59239357	rs7610119	59255834
rs1596456	59227816	rs17060235	59243524	rs12634846	59257705
rs6446018	59228036	rs17260169	59243929	rs12634854	59257970
rs6446020	59228711	rs10510805	59244082	rs11130692	59259203
rs7375089	59228981	rs17326080	59244130	rs4679586	59261783
rs6770491	59231114	rs17060242	59245379	rs7652341	59263255
rs6446021	59233072	rs11130688	59245754	rs9854717	59264180
rs17060223	59233350	rs11130689	59247279	rs11928900	59265278
rs6765591	59234011	rs11130691	59247677	rs11917063	59265298
rs6789380	59234083	rs2197311	59248213	rs6807244	59267599
rs6446023	59234576	rs722574	59248467	rs6804830	59267671
rs6446024	59234920	**rs9857128**	**59249029**	rs1010362	59269712
rs9811408	59235205	**rs9819913**	**59249498**	rs7646580	59270699
rs17060225	59235498	rs7431049	59249921	rs7613873	59270772

Table 086 – LD Block 085 – Chromosome 3					
rs7373248 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1563435	59680884	rs12496416	59689950	rs9311724	59693784
rs2366846	59680934	rs1947151	59691294	rs9311725	59693857
rs2366847	59680994	rs1947152	59691424	rs7372191	59693998
rs6446080	59682016	rs1456155	59691497	rs17359709	59694212
rs1349018	59682136	rs9866094	59692613	rs6770686	59694684
rs1447803	59683581	rs9810618	59692627	rs13100267	59696945
rs6446081	59683801	rs17293769	59693200	rs6810020	59699977
rs17359485	59684090	rs9311723	59693703	rs4343583	59700891
rs7373248	**59686057**	rs1456153	59693773	rs1155530	59702842

Table 087 – LD Block 086 – Chromosome 3					
rs780369 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17061197	59736582	rs517644	59737073	rs9817691	59737718
rs780365	59736829	rs9813457	59737358	rs780370	59737949

Table 088 – LD Block 087 – Chromosome 3					
rs780369 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs300068	96097023	rs6437531	96164960	rs300303	96206985
rs9851690	96098983	rs1897462	96165662	rs300305	96209517
rs441713	96103435	rs1120672	96166242	rs6807717	96211986
rs12496927	96115685	rs991552	96169727	rs300070	96220828
rs300092	96115852	rs1368193	96170458	rs13084392	96228120
rs300091	96119942	rs1529653	96172009	rs9873892	96242115
rs300090	96121998	rs9861234	96172989	rs8180036	96242194
rs380053	96123451	rs11918258	96174053	rs9865118	96244132
rs300089	96124447	rs9871759	96174943	rs11720623	96246688
rs11718065	96126597	rs1432473	96178801	rs16853213	96248812
rs11919926	96132952	rs9809325	96179092	rs3905886	96254895
rs7627012	96133787	rs11710300	96179699	rs7615302	96255973
rs1991752	96134688	rs11706789	96179779	rs13061750	96256215
rs9857434	96136871	rs1432474	96185162	rs9850418	96257160
rs6437515	96140510	rs7619762	96188569	rs13067978	96257363
rs9714169	96141346	rs7432922	96189959	rs9830733	96257687
rs7640921	96148424	rs13080566	96192215	rs9830753	96257724
rs1432468	96151410	rs1432475	96193061	rs9830901	96257804
rs7626615	96156257	rs4527380	96197165	rs9827377	96258134
rs9790140	96158387	rs6775003	96197722	rs9813195	96258991
rs9790160	96158544	rs6790126	96199074	rs7627313	96259303
rs7625912	96159330	rs6789217	96201961	rs7635097	96259385
rs9849782	96161525	rs300299	96202423	**rs10212430**	**96259849**
rs9854077	96161870	rs300300	96202454	rs11707669	96259893
rs10933820	96162438	rs7644748	96202512	rs9838383	96260367
rs11718955	96163088	rs49698	96204191	rs9842896	96269551
rs7626749	96163603	rs300301	96204928	rs9866641	96269821
rs1432470	96164555	rs6784091	96205162	rs11706063	96271199
rs12638115	96271777	rs9820122	96276389	rs4106688	96282564
rs9288830	96273803	rs9880867	96277042	rs9850945	96283844
rs9809081	96274040	rs9825134	96277091	rs10933879	96285743
rs9809231	96274137	rs7427763	96278192	rs9867528	96287258
rs9809691	96274434	rs2310768	96280516	rs2871586	96287557
rs9830860	96274742	rs2310767	96280548	rs9821031	96291175

Table 089 – LD Block 088 – Chromosome 3					
rs9871235 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9288853	108965483	**rs9871235**	**108977035**	rs6437745	108993147
rs10933913	108970397	rs9834673	108985637	rs9844996	108994687
rs6802705	108972089	rs1389795	108985753	rs963110	108998000
rs13324371	108972444	rs9839178	108990466	rs7634587	108999537

Table 090 – LD Block 089 – Chromosome 3					
rs16837189 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1823213	127361763	rs7650684	127364822	rs4679102	127367886
rs4646701	127362146	rs4518075	127365296	rs4646700	127369013
rs4679208	127363812	rs2364370	127365337	rs4646699	127369048
rs13093423	127364495	rs1348986	127366047	rs4646698	127369131
rs13070447	127364519	rs10934752	127367152	rs6782537	127371681

Table 091 – LD Block 090 – Chromosome 3					
rs4683495 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11710635	141587694	rs6439918	141596646	rs993691	141603432
rs11718581	141587899	rs4683831	141596968	rs993692	141603451
rs4683830	141588870	rs1383019	141597174	rs13064082	141607144
rs1479863	141595097	rs2170059	141597241	rs10513112	141607306
rs1479864	141595330	rs1979421	141598331	rs993483	141608404
rs7617740	141596521	rs4683832	141598916	rs993484	141608757
rs7619971	141610022	rs1600403	141611372	rs17347351	141619629
rs4683834	141610635	rs1600404	141614437		
rs4683495	**141611217**	rs1600405	141614779		

Table 092 – LD Block 091 – Chromosome 3					
rs347338, rs347341, rs10804674 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs347331	141630797	rs347339	141638165	rs9872654	141643088
rs347332	141632495	rs4142787	141638380	rs9877176	141643596
rs2559596	141633727	**rs347341**	**141638888**	rs9882815	141644752
rs347338	**141635511**	rs16850245	141639749	rs3926166	141645433
rs3846016	141635921	rs13092991	141640293	rs7611867	141645997
rs3909790	141637728	**rs10804674**	**141642763**	rs7614438	141646453

5

Table 093 – LD Block 092 – Chromosome 3					
rs800078 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs800086	145825362	rs800070	145829304	rs708479	145831737
rs1151548	145826047	rs800071	145830120	**rs800078**	**145832701**
rs1164316	145826556	rs800075	145830434	rs1151556	145834986

Table 094 – LD Block 093 – Chromosome 3					
rs16858222, rs7647333 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7645100	147470921	rs13070811	147498076	rs1828558	147513829
rs13092543	147479163	rs3846033	147498229	rs1849260	147513931
rs16858222	**147483271**	rs6801278	147498603	rs961834	147514493
rs2203131	147486688	rs10935618	147503515	rs1606264	147514997
rs13084814	147488070	rs13067886	147509647	rs1160640	147515628
rs6800045	147494206	rs9836580	147509690	rs1160641	147515835
rs1512073	147497780	rs1949150	147511090	rs2203129	147517834
rs13070399	147497867	rs11918216	147511662	rs4681314	147518261
rs13070293	147497977	rs6780315	147513353	rs1828557	147520142
rs4681315	147521372	rs1512069	147529664	rs1398119	147534131
rs10935620	147525482	rs1512068	147529832	**rs7647333**	**147534580**
rs12495688	147525535	rs7609910	147531207	rs2089890	147535700
rs13095337	147526561	rs1912892	147532291	rs6777637	147537194
rs13075285	147526590	rs2221848	147532462	rs9881632	147537932
rs10935621	147528020	rs11918410	147533384		

Table 095 – LD Block 094 – Chromosome 3					
rs13083177 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1478172	163759910	rs16850676	163766063	rs9816189	163770267
rs7646242	163764330	rs6806463	163766115	rs16850727	163771388
rs7647075	163765022	rs2045862	163766269	rs7635755	163771420
rs7616740	163765218	rs2045861	163766493	rs9826797	163772113
rs1478171	163765519	rs16850701	163767559	rs9832092	163773071
rs6806429	163765928	rs7615225	163769008	rs9836512	163773584
rs6770712	163766015	rs7617688	163769386	rs9874970	163774276

Table 096 – LD Block 095 – Chromosome 3					
rs10460797 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1523327	173607282	rs10936722	173612931	rs16845502	173621468
rs10460797	**173607677**	rs551228	173615754	rs520418	173621537

Table 096 – LD Block 095 – Chromosome 3					
rs10460797 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6799710	173610745	rs2593858	173616181		
rs1523328	173612427	rs9809238	173620820		

Table 097 – LD Block 096 – Chromosome 3					
rs507759, rs12631737 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs493280	173627412	rs2442057	173632385	rs11929140	173638131
rs16845548	173627720	rs509505	173635864	rs530893	173638657
rs12631737	**173629596**	**rs507759**	**173636035**	rs526268	173639153
rs4593055	173630280	rs560994	173636714	rs501609	173639566
rs501441	173639631	rs578015	173642716	rs572169	173648421
rs558595	173639797	rs565105	173644811	rs495225	173648727
rs1403637	173641091	rs509035	173646143		
rs4144707	173641899	rs2948694	173647857		

Table 098 – LD Block 097 – Chromosome 4					
rs7692006 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12647020	1476525	rs6599394	1481536	rs11931860	1488796
rs6823247	1477588	rs4254839	1483407		
rs7692006	**1481157**	rs11947258	1488616		

Table 099 – LD Block 098 – Chromosome 4					
rs1393867, rs1393865, rs10034982, rs17183 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1393865	**5396559**	**rs17183**	**5398944**	rs1354310	5411264
rs1393867	**5396850**	rs6446354	5404500	rs1354312	5415029
rs6817527	5397086	rs7661177	5408333	rs11727433	5416760
rs10028303	5398719	rs1354309	5411127		

Table 100 – LD Block 99 – Chromosome 4					
rs41489550, rs41411346, rs10488990, rs16884475, rs11729138 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6844038	11199124	rs6827235	11208845	rs10033386	11215295
rs4254795	11199456	rs1024631	11208961	rs10939361	11216013
rs6448792	11200245	rs2052045	11209413	**rs10488990**	**11216599**
rs1860287	11201569	rs2052044	11209431	rs6816174	11218802
rs16884279	11202616	rs2159282	11209796	rs2108955	11219566

Table 100 – LD Block 99 – Chromosome 4					
rs41489550, rs41411346, rs10488990, rs16884475, rs11729138 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2215232	11203210	rs12506708	11211023	rs6448796	11222667
rs11728997	11205968	rs7658988	11211377	rs10000318	11224119
rs11732793	11206083	rs2098067	11212565	rs7664737	11225134
rs10021950	11206361	rs12511677	11213894	rs10488989	11226079
rs11729138	**11206417**	rs13123455	11214126	rs10029911	11226415
rs10000399	11206564	rs17427761	11214958	rs10032590	11226881
rs10018132	11208423	**rs16884475**	**11215023**		

Table 101 – LD Block 100 – Chromosome 4					
rs10032561, rs10938824 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6818751	20638030	rs10938827	20651073	**rs10032561**	**20665911**
rs6819439	20638051	rs4318646	20652196	rs2163934	20666107
rs10805223	20640180	rs9992270	20654798	rs6854888	20666657
rs10938824	**20640494**	rs7684200	20658889	rs2043388	20672923
rs6853609	20642951	rs10033946	20661467	rs6845231	20677550
rs12645002	20643300	rs6815319	20662532	rs1579554	20682284

Table 102 – LD Block 101 – Chromosome 4					
rs7680373 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6840528	20694440	rs10022535	20696333	rs4599408	20697443
rs6853658	20696239	**rs7680373**	**20697260**		

Table 103 – LD Block 102 – Chromosome 4					
rs16870493 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6819766	20763595	rs4426775	20765242	rs6829666	20766579
rs892314	20765010	rs2322873	20766166	rs1347240	20769347
rs4580648	20765096	**rs16870493**	**20766290**		

Table 104 – LD Block 103 – Chromosome 4					
rs188819, rs184360 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1963656	24933840	rs316779	24943349	rs13114588	24956869
rs12642624	24933997	rs16877032	24943623	rs167584	24957421
rs10001797	24934283	rs7682435	24947664	rs316780	24958151
rs13128106	24934362	rs6846921	24948657	rs2875425	24959019

Table 104 – LD Block 103 – Chromosome 4					
rs188819, rs184360 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2671451	24934517	rs10939054	24949487	rs178427	24959602
rs2671452	24936698	rs316784	24950007	rs3733546	24960523
rs6856277	24937623	rs316783	24951561	rs316775	24965916
rs6813100	24937875	rs316782	24952698	rs316776	24966262
rs6839238	24938081	rs16877042	24953689	rs316777	24966356
rs4334743	24938281	rs16877048	24954743	rs13105472	24968477
rs2667296	24969739	rs315688	24980913	rs10027814	24995657
rs184360	**24971199**	rs315687	24981258	rs13434763	24997688
rs188819	**24971216**	rs11733330	24983197	rs2292406	25002573
rs316817	24971897	rs315684	24983295	rs2292407	25002987
rs13109414	24973916	rs315683	24984553	rs2292409	25003319
rs7675034	24976116	rs3822217	24987817	rs2292410	25003437
rs315674	24976644	rs315678	24988825	rs6848308	25003499
rs12642512	24976725	rs2324761	24991881	rs908056	25003629
rs315690	24979725	rs1533133	24993403		
rs13102920	24980558	rs7684466	24995566		

Table 105 – LD Block 104 – Chromosome 4					
rs4697572 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7698526	25049930	rs10008104	25053860	**rs4697572**	**25055885**
rs4697571	25050863	rs6448356	25055198		

Table 106 – LD Block 105 – Chromosome 4					
rs7665474 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10013576	27228651	rs6448528	27233280	rs6815381	27239144
rs2084553	27231167	**rs7665474**	**27233504**	rs6841157	27239200
rs6448527	27233263	rs2309630	27237625	rs6841331	27239241

Table 107 – LD Block 106 – Chromosome 4					
rs2889346 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1562095	36672154	rs11727558	36678420	rs1885878	36686385
rs1020333	36673486	rs7697261	36678760	rs986647	36687027
rs1020332	36673506	rs2588541	36678775	rs1010010	36687499
rs2588548	36674873	rs1579804	36679501	rs1010009	36687692
rs2588544	36676728	rs1073277	36680445	rs2146668	36691815
rs6819520	36678157	rs2028732	36680676	rs13111292	36696953

Table 107 – LD Block 106 – Chromosome 4					
rs2889346 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2296040	36698088	rs1957726	36710235	rs10002999	36714168
rs13146493	36700230	rs6832988	36710247	rs2181494	36715413
rs2889346	**36706094**	rs1885880	36710673	rs1957730	36715861
rs1885879	36706362	rs6815622	36710799	rs1957731	36715933
rs6840860	36706436	rs7689518	36712545	rs9999604	36716566
rs6842487	36706458	rs16993028	36712578	rs7657063	36716938
rs6850318	36708771	rs7672131	36712602	rs17237168	36718294
rs10032154	36709414	rs17289939	36712712	rs13127946	36719006
rs10010749	36709570	rs16993030	36712838	rs1957732	36720853
rs10013188	36709764	rs16993031	36713094	rs17492442	36720998
rs11096856	36710055	rs2013358	36713541	rs10031375	36721086

Table 108 – LD Block 107 – Chromosome 4					
rs4645195 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6824550	46767852	rs4694834	46774165	rs10003525	46783106
rs6447530	46768171	rs4613538	46778477	rs4396968	46783941
rs13108870	46770314	rs13112698	46782734		

Table 109 – LD Block 108 – Chromosome 4					
rs2572336, rs2354946 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6447666	48574131	rs10938546	48602153	rs10517230	48612758
rs2354947	48581487	rs2290516	48603111	rs10517231	48613152
rs2289065	48589738	rs2085292	48609693	rs12504699	48629055
rs6447674	48591944	rs724598	48610081		

Table 110 – LD Block 109 – Chromosome 4					
rs7683984 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4864737	53797470	rs4864451	53818542	**rs7683984**	**53829489**
rs2412397	53804380	rs751266	53826296	rs4864453	53831985
rs11133257	53815219	rs9990771	53827477	rs7682970	53832716
rs6826467	53834091	rs17082565	53867121	rs1383983	53882379
rs17082557	53835173	rs6811200	53872084	rs4864749	53885719
rs11724781	53836222	rs6554089	53872133	rs7657388	53886871
rs9884671	53842185	rs11724062	53874074	rs6554091	53896377
rs1481818	53842730	rs9998376	53875279	rs11725172	53898458
rs6852755	53843383	rs4864747	53876546	rs11933772	53901636

Table 110 – LD Block 109 – Chromosome 4					
rs7683984 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs900110	53846782	rs17654608	53878489	rs6554093	53907146
rs1481822	53848571	rs11731676	53878978	rs10517292	53909285
rs1842658	53850323	rs1383981	53879440	rs17705869	53910000

Table 111 – LD Block 110 – Chromosome 4					
rs1481823 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6826663	53912364	rs997832	53943033	rs10022604	53959208
rs17705995	53913272	rs10021659	53943848	rs10025091	53959300
rs1481816	53913429	rs12651390	53943942	rs1531748	53960090
rs10012682	53914004	rs12649335	53944030	rs9997905	53962723
rs1600795	53916709	rs9312640	53945045	rs10001201	53963853
rs2128103	53917238	rs2054589	53945554	rs10027090	53964471
rs6554095	53920206	rs2054590	53945685	rs12504531	53971254
rs9312639	53920985	rs10024153	53946415	rs6554104	53971419
rs6554096	53924043	rs10014172	53946475	rs10012328	53972076
rs6554098	53927415	rs10517295	53947639	rs2412447	53972273
rs11133266	53929128	rs1481819	53948903	rs6816889	53972901
rs6828559	53930120	rs11731499	53951235	rs12645252	53974706
rs6852884	53931316	rs10517296	53951888	rs12645287	53974856
rs11935822	53932189	rs13120051	53955440	rs7686876	53975832
rs7684894	53932256	rs17082681	53958110	rs17082726	53975979
rs1481823	**53932766**	rs12233879	53958381	rs4864760	53978070
rs931181	53937831	rs10022429	53958862	rs9992820	53978252
rs931182	53937987	rs11734039	53959185	rs10011259	53980709
rs17082741	53981660	rs10028131	54005303	rs3765158	54022341
rs13435378	53982513	rs11725230	54006829	rs15834	54023428
rs10023613	53984449	rs1473911	54006874	rs2271560	54023902
rs6420001	53985234	rs6833766	54007463	rs2412488	54025624
rs6554105	53985434	rs17082811	54008572	rs17082847	54026320
rs6554106	53987548	rs17326196	54009175	rs13435672	54026463
rs7349642	53988799	rs7698792	54014668	rs10028214	54026680
rs17839071	53991138	rs7675342	54016370	rs9996049	54026933
rs10000723	53993418	rs10013573	54016864	rs12499401	54033851
rs11133274	53994137	rs12644212	54018071	rs12505040	54034235
rs2090117	53995348	rs2412487	54019136	rs6554108	54035479
rs7684450	53995918	rs2137895	54019748	rs10007903	54036070
rs6821471	54000161	rs1014056	54020747	rs9997844	54036182
rs3817270	54001893	rs2048709	54021152	rs6855607	54037415
rs17656576	54003899	rs17657105	54021307	rs7682199	54038120

Table 111 – LD Block 110 – Chromosome 4					
rs1481823 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17656616	54004401	rs3811785	54021992	rs3946758	54038664
rs17713298	54004559	rs17082837	54022283	rs6820658	54039330

Table 112 – LD Block 111 – Chromosome 4					
rs10015634 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6848187	57024230	rs4270628	57036019	rs12508008	57048524
rs12505749	57028869	rs4076103	57036648	rs17756240	57049949
rs12650288	57030051	rs1579019	57037392	rs17086868	57050129
rs11133443	57031066	rs17086830	57039776	rs12649799	57050911
rs10866433	57031273	rs17086832	57039952	rs12643989	57051093
rs17086801	57032285	rs17086838	57041611	rs6811482	57053458
rs17086803	57032370	rs7700034	57044039	rs11934479	57056384
rs4340842	57032945	rs6830145	57045520	**rs10015634**	**57057584**
rs17086804	57033788	rs11934636	57045846	rs6811821	57059071
rs11610	57035349	rs17086853	57047076		

Table 113 – LD Block 112 – Chromosome 4					
rs1513534 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6841625	60100475	rs1482706	60120642	rs7686197	60136597
rs12499269	60107652	rs1486307	60123317	rs989074	60137618
rs1513536	60111325	rs17290779	60125085	rs7689877	60138441
rs10517468	60114549	rs13118808	60126718	rs970313	60141415
rs7657581	60114556	rs13103107	60132547	rs6848721	60141944
rs974866	60116262	rs2200128	60134196	rs7664417	60143144
rs2128439	60118888	rs12513305	60136382	rs3912319	60143740

Table 114 – LD Block 113 – Chromosome 4					
rs4130912, rs4314260 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4074380	72442617	rs6852522	72476579	rs13104531	72515103
rs16846302	72454322	rs4694394	72482992	rs7658185	72518056
rs16846305	72456295	rs6827732	72489805	rs13124079	72522866
rs16846308	72456449	rs11941759	72492114	rs13118270	72524861
rs16846314	72458163	**rs4314260**	**72497294**	rs13103451	72524938
rs16846318	72458239	rs3935293	72498975	rs7683154	72530015
rs6813791	72465756	rs6854303	72501617	**rs4130912**	**72541637**
rs4637367	72471003	rs13152390	72509881	rs12511966	72543772

Table 114 – LD Block 113 – Chromosome 4					
rs4130912, rs4314260 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4334726	72471094	rs4626166	72513226	rs10015140	72550858
rs4371585	72471253	rs4353873	72513397	rs12642910	72551677
rs16846322	72473774	rs4353874	72513460	rs4328885	72552224
rs16846326	72474821	rs6810738	72513773		

Table 115 – LD Block 114 – Chromosome 4					
rs4693809 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4693809	**82199990**	rs4693810	82200458	rs2685471	82200616

Table 116 – LD Block 115 – Chromosome 4					
rs11729944 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6845526	83738922	rs4693465	83740286	rs17005824	83742302
rs7669440	83744809	rs6535358	83747906	rs6845080	83753878
rs13127498	83745503	rs12647788	83751400	rs4413397	83756193
rs12645937	83746209	rs17005848	83751603		
rs17005836	83746757	rs6832679	83752730		

Table 117 – LD Block 116 – Chromosome 4					
rs4693352 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs10856903	95043630	rs2618741	95061460	rs7667693	95084297
rs6813248	95049184	rs13105254	95061799	rs1438374	95085314
rs2578162	95053891	rs9884362	95061991	rs10006063	95085827
rs2578160	95054312	rs1595502	95073476	rs2578133	95087214
rs2578151	95057616	rs1837210	95077276	rs2618760	95087264
rs13152714	95058232	rs1583661	95081290	rs2618761	95087293
rs1898639	95058442	rs13147118	95081899	rs11097397	95087875
rs1898638	95058506	rs10002699	95082776	rs1579659	95089008
rs2618735	95059040	rs2578135	95083600	rs13121186	95090373
rs1370814	95060621	rs11936081	95083850	rs2618768	95094036
rs2618740	95061292	rs1438377	95084010	rs2618766	95096267
rs13129177	95061341	rs1438376	95084071	rs2033781	95096873

Table 118 – LD Block 117 – Chromosome 4					
rs2553207 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1895733	107806607	rs10010360	107820967	rs7673706	107830699
rs13141555	107807706	rs7683001	107822132	rs12646341	107832593
rs1596433	107808977	rs2081453	107823784	rs13126973	107837221
rs1425260	107820931	rs1425264	107829248		

Table 119 – LD Block 118 – Chromosome 4					
rs9790431 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4834821	121016546	rs1393966	121018305	rs4490443	121021950
rs1587734	121028903	rs10446728	121038931	rs1910426	121042447
rs1503539	121031361	rs17007394	121038997	rs10471014	121045760
rs1503540	121031754	rs7679294	121041233	rs9790821	121046180
rs4834823	121033680	rs13132107	121041442	rs11723972	121048667
rs17007348	121036669	rs6534160	121041485		
rs10446727	121038821	rs7684775	121041828		

Table 120 – LD Block 119 – Chromosome 4					
rs13134800 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1503535	121117957	**rs13134800**	**121119730**		

Table 121 – LD Block 120 – Chromosome 4					
rs1364968 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1364968	**129873577**	rs10002938	129876337	rs7692380	129886861
rs1425619	129873701	rs12506981	129881106		

Table 122 – LD Block 121 – Chromosome 4					
rs1355962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1514572	130380156	rs7677072	130380662		
rs1514570	130380454	rs7677291	130380799		

5

Table 123 – LD Block 122 – Chromosome 4					
rs6827999 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10023189	134849148	rs7683051	134861475	rs925085	134873498

Table 123 – LD Block 122 – Chromosome 4					
rs6827999 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10518642	134859783	rs7658607	134861650	rs953972	134873627
rs17537260	134860363	rs11726730	134868222	rs6534973	134894388
rs17537322	134860892	rs950829	134872866	rs2420842	134896310
rs7658001	134861323	rs950828	134872902	rs17609744	134903694
rs17609765	134903760	rs12509824	134905464	rs11099256	134917544
rs12504658	134904546	rs2420845	134910894	rs12646011	134922166
rs12508841	134904898	rs11099255	134912471	**rs6827999**	**134923358**

Table 124 – LD Block 123 – Chromosome 4					
rs12649565 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10026152	142231710	rs11100705	142233410		
rs4956504	142231877	rs10454797	142235623		

Table 125 – LD Block 124 – Chromosome 4					
rs3936168 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6857262	145245500	rs2069004	145253615	rs4355337	145274043
rs4350961	145248494	rs6857303	145255238	rs13103731	145275937
rs3936169	145249320	rs12645789	145255578	rs11736498	145277734
rs3936168	**145249337**	rs7658293	145261157	rs11723763	145277746
rs11728240	145250151	rs7665923	145262660	rs4260483	145277802
rs13125760	145251291	rs6537257	145265854	rs7688971	145295806
rs4425323	145252982	rs4835164	145270726	rs7441048	145296471
rs4374581	145253260	rs11725211	145271556	rs6831817	145296914

Table 126 – LD Block 125 – Chromosome 4					
rs1968783 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4691944	156972624	rs9992550	156978191	rs1563804	156991918
rs10024268	156973552	rs7668306	156978984	rs1962684	156992210
rs1968783	**156974416**	rs10010364	156979639	rs12647431	156997328
rs7677211	156977081	rs13148223	156981943		
rs1399046	156977268	rs6845873	156983808		

Table 127 – LD Block 126 – Chromosome 4					
rs10857287 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1514009	157004584	rs13122250	157027738	rs17379906	157041917
rs6835773	157005383	rs1554021	157029503	rs3775085	157042829
rs6848883	157006790	rs4352424	157029513	**rs10857287**	**157043230**
rs17033637	157007304	rs6826142	157029976	rs3796551	157046079
rs7670396	157007627	rs17314234	157030205	rs13125676	157046286
rs6536110	157020453	rs2175843	157032471	rs2271537	157049273
rs12504740	157024238	rs3755907	157041325		

Table 128 – LD Block 127 – Chromosome 4					
rs7438099, rs7689071 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6857927	162479679	rs7438721	162481783	rs2314137	162485246
rs4446272	162480388	rs7689446	162482812	rs2314138	162485769
rs4327441	162480620	**rs7438099**	**162484222**	**rs7689071**	**162486652**
rs4334710	162481725	rs11934359	162484738		

Table 129 – LD Block 128 – Chromosome 4					
rs10007083 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13145725	162490532	rs6832320	162493474	rs1316485	162495179
rs10007083	**162491709**	rs1316486	162494641	rs17336367	162496219
rs10010638	162493222	rs10016875	162494915	rs17336456	162499651

Table 130 – LD Block 129 – Chromosome 4					
rs7685750, rs7663974 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11729764	163958792	rs10434173	163974782	rs1902871	163996195
rs2054207	163960133	rs4234951	163977851	rs728667	163996502
rs7680184	163962206	rs745351	163978207	rs17470235	163997880
rs11100457	163965163	rs964966	163982103	rs17470256	164000888
rs10025009	163967619	rs10033012	163986176	rs2054210	164001314
rs11723207	163969057	rs6536688	163990479	rs1458140	164001909
rs4691870	163970171	rs17470184	163990559	**rs7663974**	**164003608**
rs12651474	163970629	rs17573624	163991199	rs7664298	164007003
rs2320182	164009056	rs4691874	164012707	rs1004050	164016378
rs10517774	164011156	rs2012358	164014552		
rs12512273	164011715	rs10007144	164014876		

Table 131 – LD Block 130 – Chromosome 4					
rs11728993 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10014039	176398028	rs17061378	176414960	**rs11728993**	**176421742**
rs4146	176401708	rs7693573	176415278	rs4696018	176424237
rs13104300	176407265	rs13146658	176418647	rs666538	176425507
rs13132343	176407772	rs4696017	176421559		
rs7687152	176411854	rs11728082	176421580		

Table 132 – LD Block 131 – Chromosome 4					
rs6811405, rs9992247, rs7693236, rs6844359, rs723820, rs723819 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13115859	177461443	**rs7693236**	**177468245**	**rs723819**	**177471940**
rs6553942	177463822	rs6553943	177469702	rs723818	177472089
rs4077385	177465508	rs1037485	177470148	**rs9992247**	**177472280**
rs12331837	177465879	rs1037483	177470305	rs9992260	177472337
rs12649226	177466381	rs7687674	177470499	**rs6811405**	**177472794**
rs11133143	177466554	rs7670905	177470898	rs6858584	177472874
rs11133144	177466713	rs7688640	177470986	rs6836707	177472997
rs6849460	177467094	rs13115857	177471123		
rs6844359	**177467166**	**rs723820**	**177471900**		

Table 133 – LD Block 132 – Chromosome 5					
rs903083 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2452878	4134920	rs13157330	4137380	rs2136174	4138896
rs1493464	4135501	rs2398655	4138030	rs10462783	4141133
rs1493463	4135732	rs2398656	4138070	rs10462784	4141235
rs1703285	4136894	rs4432895	4138308	rs10462785	4141281
rs12513797	4142201	rs1105521	4145291	rs10039404	4147069
rs7703426	4142499	rs1187474	4146237	rs10041378	4147165
rs9313067	4142547	rs6864370	4146432	rs16872786	4148621
rs1187471	4144747	rs1187475	4146529	rs1187477	4149237
rs1187472	4144765	rs1187476	4146665	rs1187478	4149258
rs903083	**4145209**	rs9313069	4146896		

Table 134 – LD Block 133 – Chromosome 5					
rs350430 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16879932	51922753	rs350435	51931252	rs7712215	51938786
rs10045873	51923314	rs16879945	51931475	rs1450947	51939117
rs10940260	51923375	rs350436	51932211	rs7718687	51939871

Table 134 – LD Block 133 – Chromosome 5					
rs350430 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs168418	51924008	rs350438	51933802	rs7704801	51940228
rs350430	**51925473**	rs350439	51935408	rs7723076	51940289
rs350431	51926018	rs830910	51936500	rs830907	51940364
rs16879936	51928787	rs830909	51936652	rs830906	51940525
rs11749642	51929991	rs171234	51937256	rs1450946	51940637
rs11958172	51930474	rs11749875	51938197	rs982826	51941057
rs11958309	51930917	rs11739891	51938273		

Table 135 – LD Block 134 – Chromosome 5					
rs10471407 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12697136	54376475	rs3096130	54400030	rs10037065	54405846
rs6877565	54381911	rs3096128	54401295	rs10036474	54405988
rs1858084	54383328	rs3111039	54402468	rs9292086	54406733

Table 136 – LD Block 135 – Chromosome 5					
rs831790, rs10940524, rs831793 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs831781	56383450	rs6865236	56383995	rs831786	56384230
rs831783	56383904	rs831784	56384032	rs6450415	56384642
rs831789	56385031	rs831798	56387400	rs10059300	56404330
rs831790	**56385455**	rs831805	56389518	rs331040	56407163
rs831791	56385520	rs831806	56389665	rs331042	56408564
rs719693	56385733	rs831817	56393307	rs7711479	56409120
rs831793	**56385936**	rs831818	56393904	rs831824	56411234
rs862801	56386157	rs1828189	56396128	rs6450416	56411783
rs865553	56386202	rs11740387	56397683	rs11748741	56413728
rs10940524	**56386623**	rs864969	56400664	rs6450417	56415501
rs831796	56386997	rs831821	56401385		

Table 137 – LD Block 136 – Chromosome 5					
rs453701, rs246579, rs406813, rs1019457, rs246562, rs246571, rs33417 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6862221	71790718	rs13360061	71825719	rs246566	71844815
rs7721922	71791858	rs10056589	71826565	rs246565	71845003
rs2278600	71792426	rs7721377	71827595	rs246563	71845904
rs1019457	**71798910**	rs4703928	71828460	**rs246562**	**71846002**
rs6874676	71799471	rs10065019	71830325	rs379222	71846878
rs6885144	71800985	rs10063693	71831836	rs417769	71847234

Table 137 – LD Block 136 – Chromosome 5					
rs453701, rs246579, rs406813, rs1019457, rs246562, rs246571, rs33417 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2112298	71801295	rs10056762	71833415	rs95995	71849038
rs4703908	71802603	rs4703937	71833607	rs246580	71851370
rs10079381	71804662	rs4703938	71834429	rs187415	71855211
rs10061668	71807102	rs4703942	71834976	rs246575	71855573
rs4703910	71807866	rs10066387	71836058	rs165986	71857770
rs4703547	71808217	rs1862193	71836300	rs7724061	71858110
rs10039537	71811050	rs10051996	71836448	rs181772	71858658
rs10043659	71817595	rs12332150	71836781	rs33416	71859026
rs13353920	71818307	rs10462399	71837500	rs246558	71859074
rs11955665	71819166	rs13358894	71839202	**rs33417**	**71860142**
rs10056751	71820849	rs11745483	71839461	rs33418	71861087
rs4703550	71822059	rs246572	71840861	rs12515523	71861277
rs6888075	71823085	**rs246571**	**71840906**	rs246557	71863096
rs10042132	71824777	rs246568	71844328	rs246551	71865727
rs13362283	71825701	rs6895716	71844802	**rs453701**	**71869795**
rs380173	71870519	rs397868	71872752	**rs406813**	**71873362**
rs16899493	71872637	rs381642	71873265		

Table 138 – LD Block 137 – Chromosome 5					
rs417407, rs33419, rs427274, rs420024 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs427274	**71873523**	rs454871	71880261	rs33420	71882559
rs1237170	71878363	rs415817	71880634	rs33421	71883033
rs381734	71879511	**rs420024**	**71880674**	rs6886790	71883623
rs373971	71879835	**rs417407**	**71880756**	rs42423	71884052
rs452816	71879971	**rs33419**	**71882477**		

Table 139 – LD Block 138 – Chromosome 5					
rs1232834 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1232834	**71886316**	rs246626	71903739	rs1457074	71924194
rs1232835	71888817	rs33422	71915951	rs246627	71924844
rs16899697	71889420	rs42775	71916270	rs246628	71925943
rs16899700	71889747	rs33423	71916292	rs33425	71928668
rs33415	71899092	rs33424	71918365		

Table 140 – LD Block 139 – Chromosome 5					
rs17164450 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17590866	71944376	rs2216702	72044048	rs3010277	72050156
rs17628947	71950744	rs3010241	72044711	rs3010276	72050325
rs9765670	71960333	rs3010240	72045895	rs3010274	72051784
rs16900380	71978017	rs3010239	72046057	rs12187904	72053474
rs2338637	72037229	rs3010238	72046448	rs3010273	72053780
rs3010242	72043462	rs3010278	72049329		

Table 141 – LD Block 140 – Chromosome 5					
rs343113, rs1220627 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs13173874	72875819	rs3822452	72898070	rs343116	72914515
rs819593	72878334	rs168223	72899650	rs343115	72914840
rs819591	72879536	rs347234	72901063	rs343114	72915078
rs4360020	72879581	rs819580	72903499	**rs343113**	**72915289**
rs343101	72883357	rs16870610	72904203	rs173146	72915501
rs15082	72883981	rs1220634	72904302	rs343112	72916455
rs12651989	72885312	rs1220629	72906486	rs13170849	72917884
rs343104	72886038	**rs1220627**	**72906819**	rs819573	72919065
rs343105	72886151	rs1220625	72907046	rs13178032	72919287
rs819584	72887291	rs1220622	72908522	rs819572	72919437
rs171062	72894739	rs7443182	72909681	rs343110	72919871
rs237118	72895180	rs343122	72910663	rs2249074	72926029
rs16876102	72895289	rs10942676	72911391	rs980631	72927514
rs343107	72895554	rs343120	72911791	rs10942677	72928356
rs343109	72897122	rs343119	72911875	rs10942678	72928529
rs2112159	72897211	rs343118	72912532		
rs347236	72898045	rs343117	72914487		

Table 142 – LD Block 141 – Chromosome 5					
rs7703624, rs6860763, rs16870681, rs17552213, rs17633565, rs16870666, rs1501675 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2464432	72970310	rs7730596	72993118	rs4704094	73016951
rs2544642	72970771	rs7708361	72994522	**rs17552213**	**73017626**
rs750019	72971873	rs13178946	72995212	rs6874316	73020216
rs12653891	72975857	rs10805881	72999704	rs17633770	73021200
rs12653896	72975889	rs10805882	72999982	rs10942685	73023166
rs2112160	72976674	rs4704090	73002834	rs16870700	73024772
rs970305	72978052	rs12522110	73009728	rs4704095	73025155

Table 142 – LD Block 141 – Chromosome 5					
rs7703624, rs6860763, rs16870681, rs17552213, rs17633565, rs16870666, rs1501675 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2544641	72979855	rs754374	73014534	rs6868499	73025228
rs2134157	72980595	rs750345	73015009	rs1501675	73026963
rs4703608	72986292	rs750344	73015192	rs2339611	73027083
rs17633565	**72986653**	rs750347	73015268	rs17633848	73027594
rs17552032	72986919	**rs16870681**	**73016593**	rs12655034	73028939
rs16870661	72989763	rs10755296	73016625	rs17552357	73031154
rs10515161	73031457	rs16870743	73052566	rs6880033	73064427
rs6878052	73035721	rs10474397	73056463	rs6890324	73065896
rs6882528	73039695	rs16870745	73057211	rs16870751	73066574
rs6860763	**73039875**	rs7703182	73058823	rs17664695	73066698
rs6872133	73044631	rs17552503	73060142	rs13355957	73067157
rs7737432	73045504	rs16898934	73060462	rs17634065	73068275
rs1532687	73048871	rs16870747	73060637		
rs6865280	73050919	rs6881117	73064411		

Table 143 – LD Block 142 – Chromosome 5					
rs440342 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7731790	94985632	rs6865873	95002010	rs150550	95015930
rs10078513	94985855	rs10063774	95002888	rs213510	95016314
rs10476658	94988737	**rs440342**	**95003264**	rs150549	95019328
rs6887595	94993864	rs411817	95003410	rs213880	95021698
rs4869245	94997004	rs431903	95003757	rs412026	95021942
rs12187674	94997305	rs213887	95008467	rs150548	95024728
rs13166682	95001001	rs985547	95010449	rs213512	95027877
rs6890832	95001348	rs213885	95012714	rs34901	95030239
rs11952880	95002009	rs213508	95014238	rs34902	95031795

Table 144 – LD Block 143 – Chromosome 5					
rs17133261 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs477136	100419116	rs1423681	100432789	rs6877886	100448747
rs10055504	100425053	rs1423683	100437776	rs542877	100448864
rs10059834	100427108	rs6887564	100441689	rs1858399	100449838
rs17162407	100428230	rs17328313	100443209	rs10078745	100450981
rs557953	100428567	rs498261	100447165	rs572146	100453470
rs563346	100429107	rs525744	100447905	rs529331	100454686
rs10062918	100429729	rs6895082	100447992	rs509059	100457770

Table 144 – LD Block 143 – Chromosome 5					
rs17133261 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs563361	100432701	rs6897349	100448684	rs9327421	100463328
rs1512242	100470879	rs1512243	100522078	rs1464029	100563825
rs950908	100471545	rs4703143	100524021	rs4608895	100565762
rs950907	100471590	rs6595771	100529831	rs1512245	100566810
rs4337826	100471726	rs6595775	100537140	rs938135	100570515
rs7710180	100476134	rs1464031	100542362	rs938136	100570751
rs1512239	100478858	rs1464030	100542397	rs7723879	100570909
rs2400307	100481755	rs6595776	100543398	rs1588627	100571604
rs7733595	100483153	rs6859473	100549622	rs10073043	100574648
rs7733605	100483168	rs10062726	100550893	rs13361147	100575985
rs2203153	100484371	rs1606298	100553001	rs1512246	100576305
rs10052890	100488780	rs11739385	100555701	rs7726058	100580349
rs1009208	100493488	rs1398222	100555942	rs6875997	100582293
rs12517384	100494401	rs2203154	100558916	rs6862703	100582782
rs6896986	100508663	rs4235633	100559358	rs1512249	100582887
rs13173445	100511733	rs7379702	100560108	rs10085134	100584250
rs4434357	100514374	rs10040211	100560784	rs7446186	100584874
rs2048525	100518871	rs10440779	100562928		

Table 145 – LD Block 144 – Chromosome 5					
rs4582267 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1453012	114238177	**rs4582267**	**114245934**	rs4440352	114248155
rs7733877	114238742	rs11748926	114246696	rs11750733	114248774

Table 146 – LD Block 145 – Chromosome 5					
rs156089 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs155948	139499365	rs156090	139501868		
rs155946	139501474	**rs156089**	**139502512**		

Table 147 – LD Block 146 – Chromosome 5					
rs11952119, rs6866292, rs1368402 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6866292	**145693357**	rs6872734	145701019	rs10062915	145707571
rs1368402	**145697478**	rs2277016	145701438	rs10076315	145709529
rs891970	145700624	rs1864992	145703899		

Table 148 – LD Block 147 – Chromosome 5					
rs12110175 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12110175	**147160955**	rs17773973	147161292		

Table 149 – LD Block 148 – Chromosome 5					
rs1862213 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10075355	149881566	**rs1862213**	**149890718**	rs12657104	149904038
rs12516924	149882027	rs12517252	149891179	rs3095902	149907191
rs2748217	149882528	rs2545340	149891679	rs3097829	149908537
rs7736801	149883323	rs6874540	149891863	rs3097830	149910235
rs3846709	149884052	rs2273232	149892720	rs6579792	149911415
rs3890105	149884427	rs2273230	149892932	rs11542921	149915873
rs3797621	149886541	rs2249136	149893021	rs11994	149917932
rs3797620	149886713	rs2545341	149894594	rs253294	149918092
rs2273235	149887726	rs1290147	149899932	rs253293	149918149
rs2273234	149887795	rs3095905	149902401		
rs6863373	149890124	rs11746198	149903402		

Table 150 – LD Block 149 – Chromosome 5					
rs7715379 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7715379	**154760454**	rs17598647	154762275	rs10477133	154763543
rs17117435	154761299	rs6886547	154762399		
rs6880985	154761413	rs6866674	154763227		

Table 151 – LD Block 150 – Chromosome 5					
rs873190 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1960290	154764061	rs10042751	154777038	rs12653471	154787744
rs1988694	154764370	rs2872328	154780712	rs2313500	154788725
rs13178956	154766650	rs1820794	154783481	rs1366580	154788898
rs10059714	154767856	rs1820795	154783604	rs1484274	154789692
rs12652180	154768255	rs10515719	154783990	rs10054001	154790031
rs10036375	154768590	rs1843102	154785304	rs13357562	154790846
rs10036440	154769028	rs1484275	154785594	rs17117508	154791393
rs6870869	154769181	rs10063605	154785734	rs9324820	154793593
rs721865	154770129	rs9324817	154785920	rs10476823	154794002
rs2872329	154770550	rs1428882	154786467	rs9324821	154794036
rs9324816	154770807	rs1428883	154786640	rs17117520	154794600
rs873880	154773381	rs9324818	154786696	rs17117523	154795910

Table 151 – LD Block 150 – Chromosome 5					
rs873190 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs873881	154773525	rs1428884	154786761	rs4958810	154795985
rs4958801	154774536	rs10065961	154787023	rs10060860	154796703
rs4958803	154774673	rs9324819	154787215		

Table 152 – LD Block 151 – Chromosome 5					
rs17117712, rs17117822 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs267003	154811135	rs13167002	154822277	rs267010	154830188
rs267004	154811704	rs4958816	154823631	rs11167730	154830248
rs444796	154811826	rs6881846	154823747	rs185560	154830510
rs1428885	154812482	rs1385110	154824127	rs1484280	154830892
rs10054221	154814504	rs10515715	154824202	rs267011	154832161
rs1835099	154815413	rs1529502	154825908	rs1148124	154833654
rs382924	154816979	rs448373	154825964	rs1295240	154834048
rs11167729	154818889	rs1035956	154826082	rs267013	154834122
rs10085159	154819241	rs267005	154826340	rs1295238	154834298
rs12652127	154820731	rs267007	154826981	rs1148123	154835195
rs461355	154821022	rs267008	154827543	rs267014	154835209
rs1835101	154821314	rs1994204	154827696	rs978000	154836144
rs12652707	154821363	rs267009	154827762	rs267015	154836363
rs429090	154821420	rs1484279	154828899	rs267016	154836890
rs10515716	154822132	rs1080156	154829493	rs1295236	154837967
rs1295234	154838180	rs7733594	154849112	rs4958821	154859077
rs2627588	154838797	rs2081404	154849689	rs1647592	154859319
rs2194708	154839599	rs2431756	154849701	rs2432917	154860600
rs1872250	154839785	rs2431757	154850005	rs1644550	154861825
rs6580160	154840406	rs1647596	154850930	rs1644553	154862713
rs1872252	154840494	rs1363741	154851538	rs1647588	154863661
rs1647600	154840865	rs1644568	154851943	rs1644556	154863771
rs2194707	154843443	rs1644567	154852328	rs1644557	154863832
rs1484277	154843930	rs9324824	154854085	rs1644558	154865306
rs1647598	154844311	rs1644574	154854422	rs1647585	154865456
rs4406186	154844847	rs1647595	154855333	rs1647584	154865473
rs2432923	154845481	rs1647594	154856240	rs1647583	154865654
rs7447588	154845979	rs2312976	154857194	rs2216934	154866155
rs2312979	154847058	rs2431755	154857696	rs1295224	154866655
rs2113799	154847484	rs2432918	154857782	rs1295223	154868336
rs2432922	154847787	rs1647593	154858729	rs1295222	154868884

Table 153 – LD Block 152 – Chromosome 5					
rs1296136 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1296136	**154881273**	rs12516532	154896655	rs1592989	154917826
rs7710584	154881592	rs12521731	154896834	rs10515713	154918686
rs4958410	154884208	rs1465420	154897302	rs10515712	154919227
rs10040300	154886484	rs12521335	154897874	rs10059361	154920930
rs985791	154886536	rs1295227	154897908	rs1423018	154921631
rs985790	154886790	rs2312975	154898063	rs13355365	154922799
rs12515228	154887892	rs12332685	154898675	rs12517952	154922931
rs7724332	154889257	rs9324829	154900268	rs2312974	154922984
rs1559164	154889792	rs1363738	154900743	rs1363737	154923285
rs11952982	154890868	rs1579312	154908063	rs7701763	154923437
rs1477331	154893160	rs4312936	154909299	rs7702098	154923648
rs10068643	154894130	rs718218	154912864	rs1363735	154924418
rs17117902	154894726	rs10477134	154914136	rs725883	154925078
rs982434	154894746	rs10070172	154915263	rs10515711	154928082
rs1895357	154928442	rs9324830	154938869	rs1559165	154953324
rs6894975	154931423	rs6894671	154944164	rs17118056	154954799
rs991395	154935806	rs10076934	154948814	rs10477135	154955356
rs13174223	154936572	rs6873648	154949246	rs7731279	154956020
rs17117982	154936798	rs6898205	154950146	rs1154902	154956816
rs17117987	154936835	rs1156308	154951132	rs4143531	154958388
rs6883999	154936917	rs7710000	154952180		
rs1423015	154938413	rs10515709	154953129		

Table 154 – LD Block 153 – Chromosome 5					
rs4518375 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6580181	155113735	rs4434365	155125888	rs12173249	155134628
rs3924828	155114381	rs7717301	155131922		
rs7733760	155116576	rs4608908	155134166		

Table 155 – LD Block 154 – Chromosome 5					
rs2339140 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9313524	170120221	**rs2339140**	**170122350**		

Table 156 – LD Block 155 – Chromosome 5					
rs11955428 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2569232	171718497	rs2569240	171727185	rs7721076	171740691

Table 156 – LD Block 155 – Chromosome 5					
rs11955428 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1541917	171719278	rs2731714	171727418	rs7725430	171741194
rs13182040	171719466	rs2731716	171729822	rs2731722	171741535
rs1541916	171719725	**rs11955428**	**171732473**	rs2569221	171743094
rs2569227	171720500	rs2569208	171732988	rs7713926	171744440
rs2731706	171720796	rs2731717	171733502	rs2731725	171747042
rs2731707	171720982	rs2731718	171737906	rs2731726	171747105
rs2731708	171721141	rs2731719	171738816	rs2731727	171747905
rs2731709	171721239	rs2569223	171739275	rs2247647	171749649
rs2731710	171721330	rs2569224	171739298		
rs2731711	171724878	rs2879468	171739982		

Table 157 – LD Block 156 – Chromosome 5					
rs6894903 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6894903	**172054606**	rs7721347	172055544	rs9686679	172059718
rs4868198	172054623	rs2055615	172059162	rs792691	172059909

Table 158 – LD Block 157 – Chromosome 6					
rs2517861 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs3115627	29928257	rs3128909	29931550	rs6937645	29936563
rs3862293	29928445	rs3132726	29931585	rs2523822	29936639
rs2523756	29928696	rs6919513	29931973	rs3094171	29936769
rs2734984	29928810	rs9258679	29932038	rs9295822	29936859
rs9258631	29929272	rs9258687	29932214	rs1611710	29936895
rs2247720	29929381	rs3128908	29932246	rs9258750	29936951
rs2734982	29929546	rs9258689	29932266	rs3094170	29937244
rs2734981	29929671	rs9258690	29932319	rs9258755	29937443
rs2734980	29929875	rs1611670	29933218	rs9258762	29937634
rs2517861	**29929961**	rs9258738	29935369	rs9468643	29937850
rs3115626	29930040	rs9258739	29935642	rs3094169	29937965
rs2975033	29930240	rs1611699	29935732	rs7760172	29938053
rs9258651	29930334	rs9258740	29935878	rs9258764	29938158
rs2428510	29931006	rs3094657	29936289	rs9258766	29938390
rs2734979	29931140	rs1611705	29936472		

Table 159 – LD Block 158 – Chromosome 6					
rs1264702 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9261394	30172541	rs1264697	30175547	rs1116222	30179258
rs9261395	30173277	rs7763159	30175660	rs1116221	30179309
rs1264704	30173298	rs1264695	30175871	rs2844796	30180490
rs1264703	30173395	rs9261403	30177504	rs2248289	30180700
rs1264702	**30173554**	rs2240071	30178911	rs3132680	30181174
rs916570	30174010	rs1110446	30178916		
rs1264698	30175156	rs2240070	30179089		

Table 160 – LD Block 159 – Chromosome 6					
rs2517549 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2844670	31113705	rs10947128	31117214	rs10947130	31121725
rs9262557	31114603	rs2517544	31117487	rs2523871	31121988
rs2844665	31114834	rs2508015	31118179	rs2523870	31122095
rs9262558	31114973	rs2844647	31118992	rs2844645	31123161
rs4711253	31115060	rs2248386	31119226	rs10947131	31123915
rs9262559	31115283	rs12528584	31119824	rs9394032	31124209
rs2517552	31115569	rs2517540	31119871	rs2251830	31124957
rs2517550	31116347	rs2523873	31120242	rs2517534	31125313
rs2517549	**31116577**	rs7756294	31120335	rs2523866	31125326
rs9262560	31116605	rs9262570	31120464	rs9380211	31125947
rs2517548	31116797	rs3131927	31120975	rs2517532	31126386
rs9262567	31117188	rs2517538	31121520		

Table 161 – LD Block 160 – Chromosome 6					
rs2253907 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2253907	**31444849**	rs2905716	31445146	rs13215664	31445290
rs2253908	31444870	rs9266429	31445235		
rs9266420	31445094	rs2922997	31445260		

Table 162 – LD Block 161 – Chromosome 6					
rs2523638, rs2844558 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2596437	31447065	rs9266514	31449291	rs4959068	31451823
rs2442709	31447219	rs2844556	31449336	rs5022119	31451841
rs2523527	31447313	rs2844555	31449358	rs2844549	31451853
rs2523525	31447823	rs2254549	31450415	rs2523640	31451898
rs2596438	31447850	rs2523644	31450463	rs2523639	31452077

Table 162 – LD Block 161 – Chromosome 6					
rs2523638, rs2844558 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2844559	31448054	rs2254556	31450610	**rs2523638**	**31452252**
rs2523522	31448307	rs2507985	31451079	rs3997982	31452273
rs6936035	31449135	rs5025315	31451583	rs3957110	31452327
rs9266510	31449212	rs6933050	31451611	rs3957111	31452469
rs9266513	31449275	rs6910516	31451806	rs9266596	31452605
rs2844546	31452636	rs2523632	31453823	rs2523627	31454424
rs2442744	31453355	rs7742428	31453910	rs2523626	31454469
rs2507984	31453575	rs2507982	31454172	rs6909636	31454578
rs2844544	31453707	rs2442738	31454393		

Table 163 – LD Block 162 – Chromosome 6					
rs28420297, rs9461799 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs3916765	32793528	rs9275828	32798718	rs17840161	32806581
rs3104397	32793651	rs2395237	32798923	rs7771946	32806778
rs3104398	32793663	rs4993852	32799579	rs7751699	32806877
rs9275652	32793800	rs763026	32799723	rs9276171	32806896
rs9275653	32793843	rs2395246	32799753	rs9276172	32806925
rs3129736	32793931	rs9469246	32800205	rs7751856	32806966
rs12183091	32793977	rs9275903	32800251	rs2859102	32807032
rs12177980	32794062	rs2859064	32800790	rs9276180	32807094
rs9275659	32794081	rs9275936	32800911	rs9276181	32807103
rs3129744	32795272	rs2858892	32801220	rs9276185	32807157
rs3104401	32795336	rs9275970	32801593	rs9276186	32807175
rs9469225	32795413	rs9276002	32802518	rs9469257	32807194
rs9275686	32795548	rs9276013	32802702	rs9276190	32807328
rs9275692	32795744	rs9276014	32802716	rs2859100	32807457
rs9469228	32795868	rs9276015	32802737	rs9276193	32807510
rs9275698	32795951	rs5029394	32803060	rs9276197	32807565
rs9275704	32796111	rs5029393	32803146	rs9276212	32807952
rs9275715	32796266	rs9276024	32803242	rs9276213	32807987
rs9275716	32796280	rs9276132	32805733	rs2858884	32808061
rs9275738	32796817	rs2859113	32805763	rs9276227	32808662
rs9275741	32796850	rs2859112	32805991	rs9276228	32808678
rs9275765	32797302	rs9276145	32806004	rs2859090	32808811
rs9275766	32797340	rs9276149	32806134	rs9276234	32808826
rs9275772	32797481	rs2859109	32806185	rs9276239	32809061
rs9461799	**32797507**	rs9276158	32806369	rs9276240	32809076
rs9275793	32798005	rs9276160	32806399	rs2859078	32810427
rs9276278	32810448	rs6457644	32814106	rs16870693	32819669

Table 163 – LD Block 162 – Chromosome 6					
rs28420297, rs9461799 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs9276279	32810476	rs7773068	32814212	rs2227127	32819760
rs9276280	32810505	rs7773694	32814312	rs9276428	32820063
rs2859077	32810540	rs7773407	32814376	rs9276429	32820082
rs2859076	32810564	rs9276351	32814394	rs9276430	32820160
rs9276287	32810723	rs7755597	32814458	rs9276431	32820225
rs9276288	32810747	rs7773441	32814473	rs9276432	32820362
rs9276291	32810791	rs9276357	32814537	rs17500510	32820796
rs9276295	32810869	rs7773955	32814697	rs2213565	32821166
rs9276296	32810908	rs9276359	32814748	rs2239800	32821245
rs9276297	32810924	rs9276366	32815049	rs4398729	32821832
rs9276298	32810999	rs2894287	32815260	rs9276435	32821845
rs9276299	32811086	rs2395249	32815338	rs2071799	32822153
rs2859072	32811291	rs2894288	32815405	rs9276440	32822761
rs2859071	32811344	rs9276373	32815486	rs2395253	32823138
rs6457638	32811385	rs9276375	32815563	rs9276447	32823547
rs6457639	32811559	rs9276376	32815592	rs9276454	32823824
rs2858881	32811823	rs5021448	32815684	rs2213573	32824000
rs6925725	32811920	rs9276381	32815718	rs11758312	32824350
rs7744593	32812304	rs9276394	32816445	rs9276466	32824430
rs6457643	32812392	rs9276395	32816482	rs9276482	32826140
rs9276310	32812501	rs9276398	32816776	rs10947340	32826365
rs10947336	32812552	rs9276399	32816868	rs9276490	32826659
rs12183007	32812608	rs9276401	32817182	rs2157327	32827469
rs9276311	32812637	rs2051600	32817287	rs9469268	32827613
rs9276313	32812684	rs7771968	32817510	rs2213572	32827782
rs9276315	32812878	rs9276402	32817564	rs9276506	32827892
rs9276319	32812980	rs4403295	32817988	rs2213571	32827915
rs13199553	32813082	rs5018343	32818097	rs9276522	32828440
rs13214143	32813105	rs9276407	32818285	rs9276524	32828509
rs13214069	32813226	rs9276425	32819028	rs10947342	32828758
rs13199787	32813254	rs17500482	32819157	rs7450989	32829021
rs17840170	32813316	rs2395252	32819300	rs2213569	32829552
rs2157324	32813806	rs2227128	32819378		
rs7773149	32814020	rs2213567	32819633		

Table 164 – LD Block 163 – Chromosome 6					
rs9296042 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7769974	32831496	rs2051549	32838064	**rs9296042**	**32843983**
rs7769979	32831550	rs2071550	32838918	rs9296043	32844081

Table 164 – LD Block 163 – Chromosome 6					
rs9296042 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7774452	32831847	rs1573649	32839236	rs9296044	32844122
rs7756516	32831895	rs1573648	32839417	rs1825003	32844232
rs9276558	32832039	rs1573646	32839602	rs1585893	32844513
rs3213485	32832697	rs1978029	32839688	rs1585892	32844602
rs3213484	32833040	rs6902723	32839938	rs1585891	32844700
rs2301271	32833171	rs6903130	32840188	rs6901084	32844914
rs7753017	32835303	rs9276586	32840915	rs6457656	32844956
rs1023449	32835883	rs7382794	32842008	rs6457657	32845082
rs4248169	32836532	rs9276602	32842305	rs6457658	32845127
rs2395256	32836566	rs1894412	32842807	rs6457661	32845472
rs2006165	32836765	rs2395264	32843273	rs9368741	32845485
rs2071551	32837437	rs9276605	32843289	rs1015576	32845842
rs762815	32837620	rs6457655	32843484	rs1015575	32846093
rs7768538	32837799	rs7451194	32843623	rs2170184	32846457
rs7453920	32837990	rs9296039	32843816	rs6936428	32847152

Table 165 – LD Block 164 – Chromosome 6					
rs6939869, rs831481, rs6457974 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs831481	**37110160**	rs6922840	37112067	rs6907820	37128878
rs9470462	37110209	rs6457968	37112144	**rs6457974**	**37129238**
rs864396	37110249	rs6457970	37112360	rs4317401	37130468
rs6939869	**37111337**	rs1724092	37114010	rs7751883	37130641
rs6917839	37111844	rs1753297	37114287	rs9296207	37131622
rs9366925	37112012	rs831508	37124196		

Table 166 – LD Block 165 – Chromosome 6					
rs9366927, rs10223823, rs6457980 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9366927	**37135210**	rs4714034	37145648	rs7751821	37160590
rs7750403	37135678	rs9394402	37153527	**rs10223823**	**37161822**
rs9357234	37138195	rs12204194	37158749	rs6934536	37164993

Table 167 – LD Block 166 – Chromosome 6					
rs7740037, rs9471414 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4075341	40782473	rs4502924	40795719	rs6458175	40802070
rs6940304	40783378	rs4340999	40796875	rs9471411	40802384
rs9380982	40783802	rs9471407	40797299	rs4266492	40803132

Table 167 – LD Block 166 – Chromosome 6					
rs7740037, rs9471414 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7760176	40784805	rs12529308	40797708	rs4714368	40804486
rs17630846	40786259	rs4541736	40797975	rs4609026	40804985
rs7776304	40787717	rs7768907	40798471	**rs7740037**	**40805603**
rs6905110	40788376	rs6933735	40798602	rs7740198	40805705
rs7748674	40789476	rs9471409	40798787	rs9369228	40806343
rs3800346	40790238	rs7773686	40799348	**rs9471414**	**40806396**
rs9462644	40791084	rs4714366	40800126	rs7770207	40807196
rs4373356	40791702	rs7756138	40801381	rs4400213	40807710
rs9380985	40793195	rs7756632	40801547		

Table 168 – LD Block 167 – Chromosome 6					
rs3734435 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7746685	52558406	rs13207432	52562053	rs10807448	52564072
rs7746716	52558507	rs11755784	52562099	rs9349636	52565764
rs2057350	52560192	rs6901147	52562258	rs9395806	52565779
rs2239620	52560544	**rs3734435**	**52563447**	rs9463801	52566213
rs2239619	52561179	rs3823034	52563505	rs9367490	52567899
rs9370134	52561567	rs7745317	52563527		
rs9370135	52561944	rs13199572	52563917		

Table 169 – LD Block 168 – Chromosome 6					
rs9353436 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6936802	64738922	rs6936802	64738922	rs9362335	64749021
rs9294355	64740209	rs9294355	64740209	rs9344632	64749130
rs9344621	64740352	rs9344621	64740352	rs6454559	64750198
rs9294356	64741638	rs9294356	64741638	rs6934646	64750973
rs9294357	64742105	rs9294357	64742105	rs4710457	64752313
rs9450478	64742140	rs9450478	64742140	rs1482457	64752519
rs9342086	64752961	rs1038316	64770828	rs9353437	64786444
rs9450490	64753204	rs9450527	64772657	rs9351111	64788737
rs1482455	64755780	rs9344655	64773695	rs9353441	64788974
rs7744178	64757710	rs9362371	64773937	rs9344659	64789216
rs1600904	64761609	rs6936438	64777623	rs9362389	64801655
rs12110995	64762155	rs9342097	64779015	rs6930818	64806981
rs727347	64766097	rs9362375	64780146	rs7761892	64808597
rs4710458	64767503	rs10944281	64781224	rs9362410	64811833
rs1038317	64770689	**rs9353436**	**64783032**	rs4645399	64812728

Table 170 – LD Block 169 – Chromosome 6					
rs9360084, rs2812792, rs9453089 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7751516	65584408	rs9342434	65597587	rs9351455	65630162
rs10944763	65585622	rs2023578	65602114	rs9351457	65630484
rs9342431	65586240	rs2812791	65606830	rs9363283	65630545
rs9354158	65586884	**rs2812792**	**65607294**	rs4538686	65630655
rs9342432	65587150	rs1018062	65607503	rs10944764	65631295
rs1552968	65588040	rs1018063	65607577	rs11752541	65631726
rs10498828	65589787	rs1495534	65608742	rs7751211	65631873
rs9360082	65593001	rs2025317	65613076	rs7772101	65631913
rs9342433	65593436	**rs9453089**	**65614799**	rs9342441	65633082
rs9360083	65593663	rs9354166	65615402	rs1983808	65633381
rs2036078	65593974	rs9351446	65617474	rs9354176	65633761
rs9345547	65594255	rs9363274	65619263	rs9345560	65634123
rs9363264	65594395	rs2146755	65619558	rs9294627	65634520
rs9354160	65594829	rs9351448	65622385	rs9354177	65634851
rs9360084	**65594889**	rs9342438	65622721	rs9354178	65635006
rs9360085	65595041	rs9351450	65624000	rs9345561	65635068
rs11759223	65595323	rs9351452	65625011	rs9342443	65635155
rs11756361	65595532	rs9351453	65625250	rs9351464	65635867
rs951906	65595753	rs9360094	65626622	rs9342444	65636444
rs9453076	65596207	rs9453092	65628491	rs9342445	65636533
rs9360088	65596321	rs9363280	65629531	rs11759103	65637985
rs9363284	65638769	rs9345564	65646509	rs9363293	65655693
rs9354180	65639597	rs2146758	65646905	rs9345568	65656019
rs942129	65640530	rs7774169	65647568	rs9351468	65657031
rs9342446	65641876	rs4710504	65648263	rs9363295	65657686
rs9294628	65642132	rs2350284	65648275	rs9354187	65657839
rs2146757	65643140	rs2209031	65648464	rs9351469	65658505
rs9345562	65643183	rs9354185	65649156	rs9342450	65658705
rs9363287	65645114	rs9360099	65651224	rs6455013	65659883
rs9363288	65645442	rs4710506	65652501	rs6455014	65659959
rs9354184	65645596	rs7743515	65653480	rs9345569	65660925
rs9363289	65645741	rs2350282	65654185		

Table 171 – LD Block 170 – Chromosome 6					
rs9404125, rs581633 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs536944	102144383	rs571628	102157250	rs596621	102162186
rs538768	102144575	rs685686	102157473	rs11970399	102162269
rs501476	102149426	rs543196	102158042	rs11759974	102162880

Table 171 – LD Block 170 – Chromosome 6					
rs9404125, rs581633 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1415484	102149646	rs811643	102159360	rs9498641	102162975
rs9404120	102149979	rs509447	102159420	**rs581633**	**102163163**
rs705632	102150970	rs2224202	102160507	rs9498644	102163241
rs608729	102155197	rs2207956	102160783	**rs9404125**	**102163517**
rs11156144	102155227	rs611348	102161158	rs479206	102164210
rs9377284	102156866	rs609531	102161603	rs9498646	102164472
rs572487	102157181	rs541738	102161707		

Table 172 – LD Block 171 – Chromosome 6					
rs7740161 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs9483651	134457898	rs12198076	134459215	rs6569926	134461705
rs6908581	134459015	rs4576270	134461146	**rs7740161**	**134464868**

Table 173 – LD Block 172 – Chromosome 6					
rs7740601 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7740601	**134465122**	rs7766159	134467908	rs6921560	134469350
rs10499189	134467267	rs12663809	134469175		

Table 174 – LD Block 173 – Chromosome 6					
rs374522 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs229135	134680961	rs192032	134691709	rs229129	134698860
rs703191	134687220	rs229137	134692923		
rs374522	**134690107**	rs229136	134693787		

Table 175 – LD Block 174 – Chromosome 6					
rs9389516, rs203695 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1759678	137895753	rs9376285	137902202	rs203693	137907159
rs391233	137897202	rs724371	137902860	rs10484592	137907324
rs4896276	137898423	rs203698	137903641	rs203692	137907429
rs4896277	137898483	rs12660587	137903833	rs203691	137909141
rs4896278	137898650	rs12661016	137905209	**rs9389516**	**137910590**
rs4895492	137898708	**rs203695**	**137905309**	rs6910797	137912366
rs11968273	137899188	rs203694	137906100	rs408901	137913285
rs12110715	137899620	rs12664666	137906478	rs9689944	137914587

Table 175 – LD Block 174 – Chromosome 6					
rs9389516, rs203695 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12111342	137899837	rs10484593	137906570	rs17066538	137914611
rs9373193	137900222	rs12661817	137906793		
rs11154941	137900835	rs9484059	137906833		

Table 176 – LD Block 175 – Chromosome 6					
rs13190842 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs557970	145642481	rs9403680	145646101	**rs13190842**	**145649414**
rs1321529	145643253	rs9376913	145647561	rs578448	145649481
rs9497230	145645272	rs551096	145648801	rs9373448	145649688

Table 177 – LD Block 176 – Chromosome 6					
rs9371823 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7754964	155064405	rs7744890	155129534	rs7740797	155162951
rs9371823	**155070602**	rs9397745	155133160	rs3757291	155166275
rs9371824	155070756	rs9479954	155133891	rs9479959	155167045
rs4870310	155074779	rs7752180	155135150	rs4870313	155167835
rs4292533	155085287	rs7762129	155136680	rs3800002	155169656
rs6932758	155090885	rs10872710	155138154	rs9322480	155170024
rs3828933	155095665	rs3800006	155141063	rs9371352	155175372
rs9384238	155099006	rs9479956	155144494	rs3087697	155175434
rs6911728	155099599	rs9478582	155147689	rs7766968	155178193
rs9397743	155108207	rs9478583	155147744	rs12523716	155186709
rs4869834	155114012	rs9397747	155147843	rs12202939	155189571
rs7770922	155118545	rs9397749	155153051	rs10485354	155191635
rs9322476	155125961	rs3800005	155154800	rs911191	155194003
rs9322477	155126077	rs3800003	155154924	rs1980602	155197913
rs9371351	155126619	rs4870312	155162511	rs9384245	155201820

Table 178 – LD Block 177 – Chromosome 6					
rs1555375 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6917023	155275881	rs6557385	155276909	rs9322483	155286100
rs1555375	**155276160**	rs9371354	155277259	rs9322484	155286276
rs1123969	155276341	rs9371835	155277331	rs2038475	155286484
rs9479977	155276770	rs9384255	155277786	rs6899710	155287748

Table 179 – LD Block 178 – Chromosome 6					
rs3778422 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3757193	166843453	rs384502	166846945	**rs3778422**	**166847154**

Table 180 – LD Block 179 – Chromosome 6					
rs3778418 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs378373	166848570	**rs3778418**	**166848694**	rs17505698	166849180
rs3799665	166849946	rs3799663	166852956	rs2187911	166855185
rs9364852	166850414	rs6909289	166853336	rs3799662	166855997
rs9457174	166851942	rs9366025	166854160		
rs17584003	166852114	rs9348145	166854842		

Table 181 – LD Block 180 – Chromosome 7					
rs2390407, rs10499519 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7811627	20990150	rs4610629	20996157	rs10156011	21000395
rs17676127	20990319	**rs2390407**	**20996264**	rs3810892	21003571
rs13340545	20992524	rs17676368	20997033	rs6947794	21005325
rs17143625	20992683	rs10499521	20998312	rs13228761	21006960
rs17676175	20993188	rs6957001	20998493	rs2192056	21012204
rs2390412	20993605	rs4598145	20998880	rs4281024	21014058
rs11975932	20994043	rs12113935	20999063	rs17143675	21017084
rs10245794	20994131	rs6943888	20999189	rs2215679	21017567
rs10499519	**20994618**	rs6944042	20999292	rs1860872	21019028

Table 182 – LD Block 181 – Chromosome 7					
rs17796758 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4719731	23237611	rs199355	23263058	rs2268747	23279987
rs10268610	23241289	rs199354	23263097	rs5850	23281072
rs858272	23243310	rs1783	23264113	rs166662	23282328
rs858239	23252840	rs10085838	23264940	rs2268745	23284125
rs199358	23254400	rs199351	23266574	rs2529003	23287436
rs199357	23254834	rs199350	23266975	rs2268744	23298805
rs10262243	23257512	rs199349	23269113	rs458163	23299038
rs1881203	23259333	rs10250602	23270226	rs461239	23300963
rs199348	23259623	rs156429	23272545	rs464336	23301280
rs199347	23260271	rs156428	23273025	rs456866	23302128
rs199346	23260297	rs156425	23275644	rs463225	23302318
rs858275	23260669	rs156422	23277075	rs199657	23304032

Table 182 – LD Block 181 – Chromosome 7					
rs17796758 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs199656	23304140	rs192439	23314258	rs199360	23326699
rs7779544	23304547	rs156409	23314921	rs586926	23333786
rs199359	23305039	rs156410	23315965	rs586980	23333826
rs466240	23305299	rs156419	23319835	rs668279	23334046
rs149821	23305985	rs156418	23320938	rs274031	23338623
rs156405	23306684	rs156415	23323679	rs190647	23340659
rs156404	23307143	rs156413	23324162	rs274032	23341084
rs166664	23312408	rs156411	23326378		

Table 183 – LD Block 182 – Chromosome 7					
rs200717 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs274054	23356992	rs274065	23366106	rs274044	23376661
rs274055	23357477	rs11983775	23366948	rs274043	23376711
rs274056	23357870	rs450096	23368202	rs166665	23378323
rs274057	23357971	rs433395	23368480	rs274041	23379005
rs274059	23358164	rs2615691	23368629	rs7808331	23380214
rs200717	**23358796**	rs10255155	23368672	rs274040	23380884
rs274060	23358861	rs10229956	23369461	rs6461708	23381842
rs274061	23361172	rs17148073	23373820		
rs274063	23364360	rs274045	23376257		

Table 184 – LD Block 183 – Chromosome 7					
rs798645 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs227957	23583669	rs798646	23586259	rs227933	23591095
rs798645	**23584551**	rs227932	23591000		

Table 185 – LD Block 184 – Chromosome 7					
rs7802177, rs10241472, rs918972, rs10232965 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7780720	23973262	**rs7802177**	**23973997**	rs10232671	23975573
rs7798094	23973528	rs12532005	23974987	**rs10232965**	**23975628**
rs13232567	23976282	rs890105	23986831	rs10447620	24001652
rs13232663	23976343	rs4722312	23988488	rs6943764	24006822
rs10252848	23976853	rs6461758	23989237	rs12531312	24011687
rs989130	23977046	rs6461762	23991064	rs12536540	24011759
rs17356719	23977384	rs6461764	23992818	rs12536496	24011760
rs7786883	23977976	rs7784515	23995902	rs7802938	24011825

Table 185 – LD Block 184 – Chromosome 7					
rs7802177, rs10241472, rs918972, rs10232965 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7797227	23980258	rs7788678	23995997	rs4722315	24012798
rs6958263	23982771	rs2033021	23998591	rs7791476	24014889
rs2390852	23984773	rs2033022	23998940	rs7784401	24016680
rs2390854	23984902	rs2033023	23998995	rs7801557	24016856
rs2390855	23984925	rs7792662	24000441	rs7788937	24017268
rs12538314	23985778	rs9655242	24001054	rs6461774	24017561
rs918972	**23986287**	rs9655243	24001256	rs6974395	24017709
rs890104	23986535	rs10447618	24001538	rs7798628	24018968

Table 186 – LD Block 185 – Chromosome 7					
rs272674 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1494194	24096652	rs13237798	24104031	rs10251689	24110018
rs13231623	24097510	rs2390887	24105462	rs6944367	24110035
rs175374	24099015	rs759869	24109453	rs6963492	24110848
rs272674	**24099195**	rs759870	24109502	rs2113504	24111132
rs1908272	24100244	rs730626	24109540	rs4722326	24111508
rs272678	24103980	rs10251576	24109983		

Table 187 – LD Block 186 – Chromosome 7					
rs17148836 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs741609	24130277	**rs17148836**	**24131243**	rs172063	24132828
rs1494188	24131149	rs272701	24131901	rs272667	24133005

Table 188 – LD Block 187 – Chromosome 7					
rs2016535 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2016535	**26589541**	rs2286183	26591390	rs6973914	26592603
rs11980563	26590653	rs2190190	26592052	rs17286397	26592738
rs2286182	26590917	rs12700750	26592093	rs11767539	26592936
rs768715	26590960	rs10244951	26592543		

Table 189 – LD Block 188 – Chromosome 7					
rs2708906 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7802908	47917955	rs1879833	47957357	rs1879836	47974384
rs4720624	47920688	rs2686830	47957563	rs3176582	47975191

Table 189 – LD Block 188 – Chromosome 7					
rs2708906 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2686816	47932846	rs11973038	47957770	rs3176581	47975263
rs1125242	47934044	rs2686831	47959511	rs3176565	47976709
rs2686817	47935452	rs11767485	47959580	rs3176564	47977068
rs17711336	47936169	rs2686832	47960172	rs2708864	47977503
rs17131948	47936212	rs6463456	47960342	rs3176559	47977723
rs939903	47937851	rs2708894	47960373	rs2708862	47980636
rs885337	47938100	rs2708895	47960394	rs2307254	47982878
rs885338	47938151	rs2348665	47960806	rs2307252	47982967
rs12702399	47938373	rs2708896	47961308	rs2708861	47983242
rs939905	47938512	rs1879834	47962757	rs2242477	47984490
rs6955251	47939559	rs2686836	47970292	rs2242478	47984514
rs2686821	47941607	rs1056663	47971487	rs2242479	47984980
rs2686823	47943510	rs3176602	47972140	rs3176493	47985882
rs2708911	47945734	rs2037486	47972584	rs10499669	47988799
rs2686828	47947760	rs3176595	47972809	rs2708905	47990230
rs2686829	47951278	rs2708903	47972825	**rs2708906**	**47990279**
rs13239855	47951788	rs3176593	47972858	rs3736547	47995037
rs2708873	47953353	rs2686838	47973174		
rs2708875	47957206	rs2280537	47973546		

Table 190 – LD Block 189 – Chromosome 7					
rs10264244 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs10232043	53325009	rs12691388	53340976	rs6958437	53349078
rs10225205	53325246	rs11766912	53343354	**rs10264244**	**53351436**
rs7776619	53326231	rs6963380	53343664	rs10267658	53351643
rs4074188	53327421	rs12672841	53344991	rs10441455	53351706
rs4074189	53327676	rs12718779	53345535	rs10441463	53352174
rs9690458	53327973	rs12718780	53345826	rs11981254	53352873
rs6593078	53332811	rs4483101	53347047		
rs7456666	53339838	rs4495376	53347424		

Table 191 – LD Block 190 – Chromosome 7					
rs2058059 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6952154	71942534	**rs2058059**	**71949753**		
rs9770309	71943607	rs6460037	71955324		

Table 192 – LD Block 191 – Chromosome 7					
rs17145738, rs12539316, rs2286276, rs3763432 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2240466	72494205	rs17145713	72542746	rs13232120	72621246
rs1178979	72494366	rs13244268	72549779	rs14415	72622716
rs1178977	72494985	rs2353082	72551104	**rs2286276**	**72625290**
rs2237279	72499785	rs17145721	72572016	rs11974409	72627326
rs13231516	72501185	rs7811265	72572446	rs1051921	72645879
rs714052	72502805	rs11983997	72577180	rs11760752	72660998
rs2074755	72515102	rs17145732	72608204	rs17145750	72664314
rs12056034	72516581	rs13233571	72609167	rs7798357	72670201
rs6976930	72523746	**rs12539316**	**72615834**	rs7785479	72670771
rs2074754	72529690	**rs17145738**	**72620810**	rs7800944	72673793

Table 193 – LD Block 192 – Chromosome 7					
rs941299 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs941297	72724982	rs10267271	72727355	rs4644119	72727783
rs2884050	72730504	rs2141166	72738724	rs3793243	72759283
rs8891	72734929	rs10479665	72746860	**rs941299**	**72763115**
rs1128349	72735590	rs1001220	72748539	rs941298	72763199
rs2141167	72738660	rs4363087	72756132		

Table 194 – LD Block 193 – Chromosome 7					
rs12672098 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4498472	76688250	rs3108418	76692661	rs7781995	76695534
rs12535493	76688805	**rs12672098**	**76693809**	rs3108450	76698223
rs7810066	76689259	rs12672102	76693858		
rs10234519	76692035	rs6943246	76694911		

Table 195 – LD Block 194 – Chromosome 7					
rs2068892 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12705410	77819051	rs9791992	77831240	rs996893	77844100
rs758711	77819324	rs9641383	77831641	rs1024690	77844741
rs10246357	77819652	rs6466171	77832230	rs4236584	77845137
rs2191323	77820021	rs2191324	77832542	rs2011076	77845908
rs728470	77820050	rs9640699	77833368	rs1988400	77845938
rs714438	77820241	rs7791883	77833449	rs995753	77846015
rs714437	77820433	rs1990369	77834004	rs953944	77846067
rs976591	77820999	rs2215377	77834648	rs7808132	77846834

Table 195 – LD Block 194 – Chromosome 7					
rs2068892 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4730234	77823800	**rs2068892**	**77835370**	rs2068338	77846922
rs10244261	77823928	rs12539788	77836956	rs2068339	77846965
rs4730236	77824469	rs1156665	77838273	rs1029819	77847101
rs6977674	77825646	rs10953539	77839777	rs1029820	77847177
rs6959463	77826678	rs10245130	77839960	rs1029822	77847509
rs4476926	77830932	rs10245751	77840439		

Table 196 – LD Block 195 – Chromosome 7					
rs6466179, rs7810778, rs7795420 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10260692	77849179	rs12705417	77856777	rs4469390	77860646
rs12705416	77849259	**rs7795420**	**77857005**	rs4730257	77861452
rs1005269	77851149	rs13223430	77857282	rs11983137	77861705
rs17150624	77851868	rs1468596	77857412	rs9641392	77861948
rs17150625	77851967	rs17349903	77857532	rs9641393	77862077
rs2012593	77852110	rs17150656	77857634	rs9641395	77862352
rs11982997	77852265	**rs6466179**	**77857855**	rs17350367	77862957
rs10953544	77852530	rs7801594	77858013	rs10251797	77863363
rs10231406	77852791	rs7784121	77858093	rs7810316	77863585
rs1012405	77853352	rs13227396	77858359	rs2215378	77864398
rs17150631	77854097	rs13228296	77858410	rs2191327	77864569
rs7781496	77854204	rs17415846	77858741	rs17350535	77864995
rs7782154	77854675	rs7807057	77859368	rs10241441	77865770
rs16885987	77856201	rs16886004	77859436	rs12667208	77867122
rs7810778	**77856639**	rs7790008	77859572	rs7807494	77867734

Table 197 – LD Block 196 – Chromosome 7					
rs10259889 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7788007	88664095	rs10239607	88674724	rs11761593	88685007
rs7788167	88664240	rs10239765	88674849	rs10952954	88685198
rs2040684	88664594	**rs10259889**	**88676377**	rs17167529	88685305
rs2040685	88664619	rs6465188	88676555	rs10279101	88685980
rs10236100	88665235	rs6465189	88676682	rs17167542	88686684
rs12704446	88665324	rs1023564	88679650	rs17167544	88686737
rs7798290	88666256	rs1023565	88679726	rs4283972	88686942
rs2040687	88666705	rs10264924	88681114	rs2109756	88687789
rs10244601	88667416	rs7794752	88681150	rs10275999	88688930
rs757153	88668595	rs13438433	88681697	rs10232601	88689008

Table 197 – LD Block 196 – Chromosome 7					
rs10259889 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2040688	88669381	rs7812258	88681708	rs12704449	88689428
rs2005555	88672385	rs17167500	88682445	rs13242412	88689637
rs881638	88672411	rs17167519	88684142	rs1008593	88690169
rs2109755	88672745	rs758896	88684466	rs7794856	88690392
rs7812212	88674158	rs2373871	88684666	rs1008594	88690424
rs7794997	88690468	rs13222491	88718878	rs2708619	88733689
rs7799315	88690816	rs10275991	88720681	rs7787004	88734224
rs17167590	88691075	rs7793013	88720843	rs1208840	88734422
rs17678587	88692119	rs7810246	88720950	rs17168039	88735693
rs7804810	88692417	rs7793788	88721356	rs7796431	88735766
rs4140972	88693080	rs7794084	88721548	rs7779407	88735870
rs6975589	88694684	rs7811227	88721624	rs13247554	88736164
rs13244710	88695091	rs13238218	88723111	rs1208848	88739775
rs7799054	88696614	rs13238481	88723155	rs1309063	88740476
rs6970698	88697030	rs1208832	88723761	rs10487072	88740552
rs6970769	88697277	rs17167843	88725217	rs5011694	88740759
rs13233612	88699617	rs7808793	88726247	rs1208853	88742610
rs6465190	88702368	rs1208834	88726814	rs1208854	88742713
rs17167651	88702555	rs1208835	88728436	rs1208876	88749574
rs1208822	88709037	rs7783629	88728527	rs13238022	88753068
rs1208823	88710703	rs1208836	88731406	rs719372	88755088
rs10244005	88710819	rs13224900	88731808	rs929539	88755492
rs1208824	88711959	rs1208837	88732244	rs1208884	88756330
rs13243576	88712072	rs13225828	88732692	rs758899	88756470
rs1208825	88712473	rs7808038	88732814	rs7778127	88757329
rs1208827	88716467	rs10248522	88733170		
rs1208829	88718522	rs12704452	88733573		

Table 198 – LD Block 197 – Chromosome 7					
rs6957987 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11974885	98729091	rs733991	98733186	rs11771702	98742236
rs9969217	98729374	**rs6957987**	**98736085**	rs17161662	98745332
rs17161652	98729463	rs12113440	98737340	rs12538893	98746433
rs11977673	98731871	rs12112936	98737436	rs17161669	98746599

Table 199 – LD Block 198 – Chromosome 7					
rs9649371 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs675236	114174892	rs4730645	114181565	rs10227219	114183849
rs6942664	114186507	rs1448345	114193181	rs1448346	114209159
rs1839115	114188108	rs1530680	114194632	rs12667130	114213035
rs4727804	114188235	rs10156206	114195259	rs17504461	114215963
rs12534908	114189494	rs17137252	114198978		
rs12533049	114189569	rs6950442	114199900		

Table 200 – LD Block 199 – Chromosome 7					
rs2007801, rs289194, rs10241162, rs2034380, rs6961343, rs7796836 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12705994	114229572	rs4730650	114293501	rs6947846	114370257
rs11505925	114239198	rs12667929	114299253	rs4609131	114370334
rs1011449	114241573	rs4265116	114301361	rs4551278	114370993
rs1971627	114247556	rs12539321	114324599	rs10259595	114372905
rs12671204	114254836	rs12673776	114334806	rs4557633	114374111
rs9641522	114256106	rs7796316	114335546	rs4313084	114374139
rs2188310	114258838	rs4335064	114347118	rs4727808	114374661
rs9641524	114264156	rs12706003	114354746	rs4344019	114375776
rs2188307	114287168	rs7777885	114357045	rs10247983	114377464
rs2188306	114293341	rs4595064	114367271		

Table 201 – LD Block 200 – Chromosome 7					
rs41632 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs41620	120213054	rs41624	120222874	rs4730982	120234696
rs41621	120214026	rs41629	120226125	rs10266755	120235615
rs41622	120215843	**rs41632**	**120230421**	rs17142976	120246214
rs41623	120216035	rs3823861	120233364		

Table 202 – LD Block 201 – Chromosome 7					
rs12706310 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2110276	120475939	rs7784837	120476813	rs6466764	120479599
rs2721337	120481058	rs12706309	120482663	rs6970871	120485744
rs2721340	120481465	rs10085563	120482728	**rs12706310**	**120486413**
rs12706308	120482454	rs4727917	120483231	rs7808593	120486667

Table 203 – LD Block 202 – Chromosome 7					
rs2040931 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7778902	123720451	rs13241533	123745294	rs17146984	123758227
rs12534665	123723722	rs11765479	123745425	rs11769650	123758260
rs12667724	123724910	rs11763199	123746407	rs11772921	123758272
rs2214774	123725223	rs7803111	123747648	rs11772923	123758289
rs17382079	123725449	rs12706589	123748540	rs11766084	123758372
rs984014	123734507	rs4731161	123749181	rs6963974	123758760
rs10954016	123735285	rs17382493	123749766	rs9649469	123758972
rs6973899	123736221	rs2040935	123749787	rs6963923	123759006
rs12532557	123737425	rs2214773	123750860	rs9649006	123759088
rs11763647	123737908	rs6963657	123751622	rs12539157	123760098
rs969321	123738197	rs17146957	123752881	rs7802406	123760402
rs7784625	123738821	rs2051905	123753739	rs6965938	123760676
rs7785063	123739071	rs2051906	123753753	rs4541840	123761380
rs995995	123739488	rs12056135	123754042	rs4473973	123761414
rs995996	123739711	rs12056039	123754215	rs1978184	123763793
rs2190119	123740355	rs6975833	123754427	rs17383127	123764066
rs11768332	123741015	rs6976230	123754505	rs6962956	123764282
rs12056243	123741472	rs6958219	123754515	rs17146999	123764374
rs7804741	123741498	rs6962063	123754555	rs6949182	123764571
rs7782924	123743704	rs6980348	123754942	rs4731166	123765094
rs9640821	123744000	rs1468382	123755520	rs4731167	123765224
rs7783374	123744029	rs2051907	123755975	**rs2040931**	**123766337**
rs2190120	123744440	rs4731162	123756539	rs9641728	123766717
rs13241184	123745035	rs7805655	123756947	rs17468252	123767031
rs7807675	123745111	rs2107947	123757386	rs979448	123767224
rs2040932	123767451	rs9641729	123768510	rs2097896	123769244
rs12533195	123768072	rs2079372	123769127	rs6466906	123769416
rs6466907	123769566	rs10808211	123789708	rs12706594	123795014
rs6956953	123770087	rs10808213	123789833	rs10215793	123795699
rs12669394	123770331	rs10755870	123789941	rs12706595	123796894
rs4236619	123775019	rs12531194	123790237	rs10487263	123797272
rs11760541	123777264	rs7802554	123790537	rs7779556	123798001
rs10954018	123777949	rs7784860	123791923	rs4577900	123798741
rs1978185	123779050	rs7784992	123791984	rs9718484	123799059
rs2214778	123779630	rs4727994	123792669	rs6466911	123799170
rs11772915	123780858	rs4731172	123792711	rs12673030	123799299
rs11762885	123781436	rs4731173	123792854	rs6466912	123799309
rs12535600	123781867	rs4731174	123793100	rs2107952	123799523
rs4731168	123786098	rs7809610	123793309	rs7790074	123800181
rs6948614	123786440	rs7778027	123793787	rs1990087	123801420
rs4727993	123788639	rs17147033	123793976	rs2107954	123802266

Table 203 – LD Block 202 – Chromosome 7					
rs2040931 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11561947	123788872	rs6466910	123794350	rs7783449	123803999
rs10808209	123788992	rs9641731	123794565	rs2402711	123805671
rs10954023	123789366	rs10255387	123794686	rs10224465	123806792
rs10808210	123789665	rs2896350	123794968		

Table 204 – LD Block 203 – Chromosome 7					
rs7800870 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17164377	129516580	rs2140877	129537670	rs4731660	129543994
rs6945486	129521409	rs1474409	129538098	rs4324873	129548319
rs12531444	129524116	rs4236628	129538321	rs6961242	129552649
rs4731651	129525666	rs7781447	129539548	rs12534379	129558353
rs6467280	129531936	**rs7800870**	**129539737**	rs3800562	129560024
rs13224496	129536483	rs7805667	129542379	rs11525837	129563919
rs4731659	129536683	rs7805851	129542518		

Table 205 – LD Block 204 – Chromosome 7					
rs2241733, rs2021779 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2241731	131772451	rs277492	131776883	rs2114278	131784453
rs277489	131774189	**rs2021779**	**131778503**	rs156936	131784468
rs3752706	131774218	rs277494	131779315	rs992949	131785209
rs3752709	131774700	rs10488374	131780111	rs2021782	131785535
rs7776898	131775010	**rs2241733**	**131780573**	rs2021781	131785942
rs1433385	131776050	rs277468	131781532	rs156938	131786116
rs277491	131776681	rs1346169	131781874	rs6959905	131786272
rs2288983	131776853	rs13246114	131783351	rs1426492	131787244

Table 206 – LD Block 205 – Chromosome 7					
rs10081378 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10264010	131821762	rs156927	131822899	rs2075421	131827259
rs10235344	131822065	rs156928	131823321	rs275836	131827984
rs156926	131822464	**rs10081378**	**131823589**	rs156949	131831341

Table 207 – LD Block 206 – Chromosome 7					
rs11764626 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17248	141768716	rs977805	141778826	rs6979421	141786744
rs1882720	141772106	rs977806	141778996	rs17163237	141788427
rs2855929	141773818	rs977808	141779030	rs6974551	141788913
rs361469	141776624	rs11972143	141781395	rs6977669	141789228
rs7807358	141776968	rs4439035	141781702	rs4726526	141790407
rs6464493	141777030	rs4556007	141781758	rs2187621	141791618
rs6464496	141777619	rs4573167	141781905	rs1003007	141791837
rs6960948	141777931	rs4644154	141781918	rs1008660	141791880
rs6942606	141778001	rs4352756	141781968	rs17250	141793815
rs6961143	141778055	rs2213192	141782639	**rs11764626**	**141793948**
rs11761002	141778235	rs17231	141783983		

Table 208 – LD Block 207 – Chromosome 7					
rs10272083 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17195725	143768070	rs4726708	143786967	rs2189529	143796928
rs10487625	143768517	rs1007808	143789994	rs4726712	143797652
rs4725652	143777362	**rs10272083**	**143790396**	rs10224766	143798561
rs4726705	143777533	rs885679	143790603	rs992007	143798822
rs6957602	143778318	rs10487627	143790714	rs4726713	143799778
rs4141299	143782287	rs757387	143791216	rs10280828	143801483
rs886469	143782987	rs10952580	143791481	rs10487629	143802476
rs726068	143784378	rs4726711	143791713	rs1987569	143804005
rs2888075	143784812	rs11760287	143791967	rs969356	143804256
rs2158370	143785986	rs6949066	143793291	rs17209934	143805454
rs2158371	143786414	rs13239232	143794073	rs6948399	143806099
rs2189528	143786697	rs994417	143794981	rs12703599	143808298
rs10952579	143786921	rs994418	143795024		

Table 209 – LD Block 208 – Chromosome 7					
rs1202461 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs11973806	148394083	rs7778766	148437662	rs13236754	148476706
rs9640537	148396568	rs13226831	148440889	rs12540094	148478111
rs9640538	148396620	rs10435245	148447014	rs917124	148482146
rs1534198	148403256	rs10952797	148447655	rs3801979	148482206
rs1405123	148410333	rs7794500	148450452	rs9718383	148488557
rs1405124	148410551	rs4727019	148453199	rs13225884	148488728
rs1358062	148414676	rs6464942	148457301	rs1202443	148488861

Table 209 – LD Block 208 – Chromosome 7					
rs1202461 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6959224	148415428	rs12704062	148458798	rs1202444	148489131
rs1534196	148421524	rs10273611	148459307	rs12154368	148492974
rs12666337	148427186	rs4727020	148468250	rs4725800	148493449
rs10245343	148427266	rs1202435	148470284	rs4727025	148493796
rs11525060	148432024	rs1468369	148470773	rs7791496	148494607
rs10265213	148437591	rs1202436	148471430	rs12532104	148495166
rs1202451	148496437	rs4727027	148500210	rs1202460	148501732
rs1202453	148497072	rs6947302	148500428	rs13228528	148502121
rs6955564	148497106	rs6961605	148501041	rs757737	148503209
rs757738	148503284	**rs1202461**	**148506565**	rs1202462	148510968
rs1568944	148504430	rs12704069	148508538	rs12111923	148516810
rs1034781	148504873	rs3735311	148508670	rs12530946	148518875
rs2158632	148505095	rs3801980	148509553	rs1202470	148519976
rs4727028	148505599	rs1044358	148510884		

Table 210 – LD Block 209 – Chromosome 7					
rs1202390 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs10952803	148521024	rs1202417	148534364	rs2888600	148539495
rs12535115	148526020	rs12537763	148534917	rs2240371	148543036
rs1202402	148527198	rs7784122	148535557	rs2269972	148544980
rs1202403	148528366	rs12704071	148535728	**rs1202390**	**148545055**
rs1202406	148528954	rs1202420	148537439	rs12704084	148545983
rs1202407	148529322	rs1123992	148538134	rs11762610	148547177
rs7787753	148532712	rs10952805	148538782	rs1202397	148547560

Table 211 – LD Block 210 – Chromosome 7					
rs11978239 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4725373	150188555	**rs11978239**	**150191255**	rs10236489	150195008
rs1049793	150188598	rs4725377	150193384	rs10250599	150195294
rs12539	150189299	rs4725971	150193745	rs10250704	150195351
rs2071517	150189332	rs12375106	150194867	rs10254616	150196153
rs4725970	150189544	rs12374823	150194911		
rs4725376	150190220	rs2215563	150194938		

Table 212 – LD Block 211 – Chromosome 7					
rs11974501, rs2293263, rs306290, rs306273 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1357660	154349495	rs6977778	154355867	**rs11974501**	**154361934**
rs11543936	154351192	rs2316539	154357941	rs10249191	154362053
rs1916828	154353686	rs4960650	154360753	rs4960651	154363071
rs930436	154366883	rs3800579	154391957	rs306283	154413047
rs930437	154367010	rs11761229	154392260	rs306281	154416295
rs2293258	154367189	rs11761284	154392377	rs306278	154419731
rs3088230	154368022	rs11243326	154393255	rs306276	154420611
rs962688	154368113	rs4960654	154394420	rs431085	154427512
rs3501	154369342	rs11764147	154395305	rs377850	154427659
rs2293259	154370164	rs11243328	154395931	rs306288	154430026
rs11767562	154373815	rs11243329	154396605	rs306289	154430817
rs4546614	154376412	rs4960656	154399956	**rs306290**	**154431488**
rs2272174	154382707	rs3844197	154401949	rs11243330	154434445
rs2293261	154384787	rs398446	154403014	rs306293	154436985
rs2293263	**154385359**	rs453534	154403882	rs414315	154443449
rs748810	154386632	rs11771393	154410032	rs369181	154443819
rs11765102	154387935	rs497909	154410789	rs12539028	154443883
rs12535873	154388755	rs216579	154412070	rs418438	154445210
rs4960652	154389304	rs306286	154412187		
rs893942	154390604	rs306285	154412356		

Table 213 – LD Block 212 – Chromosome 7					
rs306287 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs11760608	154446729	rs11760635	154451409	rs7805887	154454409
rs4960666	154450041	rs10228335	154452074	rs11763914	154457260
rs306287	**154450217**	rs6972688	154453882	rs7457899	154459919
rs11765456	154451251	rs1946916	154454294		

Table 214 – LD Block 213 – Chromosome 7					
rs2698497 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7341477	154464000	rs2581850	154474506	rs2581857	154478802
rs1583830	154466943	rs2698499	154475831	rs6597451	154479788
rs4628222	154469965	**rs2698497**	**154477460**	rs1440461	154480556
rs2581849	154472505	rs2581858	154478499	rs1440459	154480786
rs2698503	154481443	rs1561600	154486762	rs1440454	154488270
rs1440458	154485087	rs2581846	154487613	rs2919435	154489085
rs1561603	154486412	rs2581845	154487717	rs12536554	154490362

Table 214 – LD Block 213 – Chromosome 7					
rs2698497 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1561602	154486574	rs2581844	154487763	rs2581842	154490773
rs1440455	154486622	rs4960677	154487901		

Table 215 – LD Block 214 – Chromosome 8					
rs10488370 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10488370	**271424**	rs6990287	271572		

Table 216 – LD Block 215 – Chromosome 8					
rs13269383 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13269383	**2023883**	rs1025797	2024688	rs2294061	2025240
rs1020158	2024140	rs1025796	2024912	rs2294063	2025459
rs6420201	2024398	rs3817703	2025154	rs13251683	2025745
rs1025798	2024627	rs2294060	2025218		

Table 217 – LD Block 216 – Chromosome 8					
rs2100021 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2100021	**8950115**	rs4841092	8953150	rs1900102	8960995
rs11782835	8951535	rs6990134	8953359	rs895254	8961376
rs2979249	8952899	rs6994214	8953546	rs17646197	8961677

Table 218 – LD Block 217 – Chromosome 8					
rs13257313 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4240641	10198892	rs10089339	10199938	rs4240644	10201669
rs17151658	10199287	rs4841312	10201568	rs17151675	10201986

5

Table 219 – LD Block 218 – Chromosome 8					
rs11783091 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17151763	10219879	rs12676847	10220620	rs17708114	10222467
rs4330695	10219922	rs7006402	10220757	rs4841317	10223545
rs2003226	10220393	rs17707988	10220986		
rs4577961	10220601	rs6983361	10221078		

Table 220 – LD Block 219 – Chromosome 8					
rs11787043, rs35349964, rs1429088, rs4831746 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs13253915	15466418	rs1560216	15469269	rs4831747	15473497
rs7009698	15467035	rs2410277	15469981	rs1117881	15473813
rs11775286	15467641	rs4518671	15470163	rs13280944	15474459
rs4831341	15467864	**rs1429088**	**15471526**	rs9643927	15474603
rs11787043	**15469238**	rs1975057	15471819	rs2898420	15475846

Table 221 – LD Block 220 – Chromosome 8					
rs12545984, rs1441777 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs291	19860132	rs3200218	19868351	rs17091891	19887451
rs297	19860651	rs13702	19868772	rs12678919	19888502
rs301	19861214	rs1059611	19868843	rs7819706	19888695
rs312	19862277	rs3916027	19869148	rs7841189	19889656
rs316	19862716	rs4921684	19869408	**rs12545984**	**19891539**
rs325	19863608	rs2197089	19870653	rs10503669	19891970
rs327	19863816	rs10105606	19872128	rs17410962	19892360
rs328	19864004	rs2410616	19872959	rs17091905	19894037
rs330	19864676	rs2410617	19873173	rs17489268	19896325
rs331	19864685	rs10096633	19875201	rs17411024	19896414
rs12679834	19864713	rs1372339	19876078	rs17411031	19896590
rs10099160	19866095	rs17091872	19876257	rs17411045	19896642
rs11570891	19867090	rs17482753	19876926	rs17489282	19896798
rs4922115	19867110	rs4922116	19877058	rs4922117	19896866
rs11570892	19867897	**rs1441777**	**19877851**	rs1372344	19897219
rs3735964	19868325	rs10097668	19878009	rs1372345	19897228
rs2410618	19897780	rs894212	19903446	rs894211	19910027
rs2410620	19898940	rs2119690	19903819	rs894210	19910123
rs2410621	19898962	rs2165556	19903907	rs765548	19910874
rs2410623	19899169	rs12541912	19904071	rs9644637	19911500
rs17411126	19899552	rs4083261	19905506	rs11986942	19911725
rs2165558	19900540	rs1441766	19907068	rs1837842	19912570
rs4523270	19900819	rs6999813	19907751	rs1441756	19912666
rs10108800	19902610	rs2119689	19907787	rs4406409	19913251
rs2103325	19902623	rs1441762	19908967	rs1919484	19913956
rs1581675	19902779	rs2083637	19909455		
rs4490856	19903400	rs2083636	19909543		

Table 222 – LD Block 221 – Chromosome 8					
rs1996396 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs12334593	26900210	rs7006436	26909127	rs6557971	26914907
rs11774897	26902164	rs6981822	26909163	rs6985204	26914970
rs7459975	26902341	rs7386953	26911239	rs10096027	26915647
rs7463901	26902510	rs2322392	26911854	rs10086525	26917619
rs7463300	26902597	rs6557970	26912020	**rs1996396**	**26918290**
rs4733014	26903486	rs4518677	26912400	rs7002284	26918492
rs6557965	26903661	rs4344087	26912497	rs11135970	26919513
rs4733015	26904468	rs4344088	26912518	rs11997461	26919554
rs4733017	26904565	rs10097952	26912879	rs11994515	26919717
rs4733018	26904706	rs9314331	26913212	rs6994580	26919853
rs11778479	26905083	rs7842266	26913610	rs7013745	26920246
rs6557966	26905738	rs10100835	26913699	rs9314332	26920885
rs10503804	26905892	rs7834160	26913875	rs7005122	26921492
rs17346659	26905938	rs6980493	26914356		

Table 223 – LD Block 222 – Chromosome 8					
rs11781163 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4733094	31717135	rs16878243	31728590	rs10954813	31746724
rs11774988	31717684	rs1503486	31729119	rs2345989	31748220
rs6983573	31721609	rs11993157	31732098	rs2345990	31748376
rs7002293	31721966	rs16878253	31732228	rs6468067	31749042
rs6468065	31723423	rs12679454	31732298	rs13260040	31749238
rs7821180	31723612	rs4733272	31732358	rs13276892	31750056
rs11779083	31725920	rs10104764	31735097	rs13270788	31750525
rs7821017	31727051	rs6468066	31735986	rs16878272	31755376
rs2345991	31728337	rs13249835	31739684		
rs11781163	**31728374**	rs17601950	31744111		

Table 224 – LD Block 223 – Chromosome 8					
rs7820923 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7820923	**31770211**	rs10087212	31773072		

Table 225 – LD Block 224 – Chromosome 8					
rs1995467 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs13249720	31810192	rs12675470	31814857	**rs1995467**	**31816063**
rs1503488	31810552	rs10093273	31815174	rs13277654	31816304

Table 226 – LD Block 225 – Chromosome 8					
rs418362 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16878439	31900384	rs1699127	31906254	rs327357	31921141
rs1119807	31900770	rs435904	31908643	rs733230	31922124
rs800501	31902481	rs4373486	31911227	rs327359	31923000
rs776392	31902553	rs327342	31912997	rs7002063	31923076
rs811842	31903196	rs1462872	31913651		
rs776389	31903882	rs16878500	31921060		

Table 227 – LD Block 226 – Chromosome 8					
rs4320537 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6995112	52604999	rs4336603	52630973	rs16916544	52660938
rs7016355	52605084	rs10504123	52632236	rs16916548	52661827
rs7003517	52605261	rs4400373	52632843	rs16916554	52662702
rs7017007	52605495	rs4509311	52632980	rs7000152	52663430
rs868427	52606498	rs4574836	52634604	rs6980547	52663457
rs6473614	52608045	rs4574837	52637092	rs7846331	52663855
rs6473615	52608148	rs4577948	52638004	rs7834664	52663932
rs7017209	52610896	rs6473623	52638401	rs7816855	52664182
rs7840129	52616693	rs6473625	52643682	rs7817121	52664356
rs7843354	52617274	rs7838285	52647445	rs7817247	52664424
rs4873560	52620327	rs6985833	52649438	rs7838725	52664483
rs4407871	52621344	rs4631459	52651953	rs7816412	52664565
rs10088914	52628140	rs4501568	52653917	rs7838984	52664675
rs13252991	52628331	rs10958280	52656134	rs13271101	52665816
rs4437641	52628640	rs4242467	52658774	rs16916565	52666451
rs4449779	52628683	rs4513964	52659036	rs16916566	52667312
rs4873562	52629614	rs6473628	52659731	rs7815071	52667363
rs4873563	52629636	rs10107128	52660315	rs6987825	52667563
rs4333587	52630738	rs16916540	52660666	rs6473629	52668095

Table 228 – LD Block 227 – Chromosome 8					
rs16920884 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7834838	57697451	rs6995850	57713213	rs17177894	57718868
rs2119389	57697683	rs828176	57713406	rs10504207	57719592
rs10958487	57698555	rs1155088	57713451	rs1346068	57719608
rs12676865	57699177	rs1863330	57714118	rs10958489	57719929
rs6996557	57700253	rs1579716	57715198	rs828183	57720777

Table 228 – LD Block 227 – Chromosome 8					
rs16920884 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7010402	57700631	rs6983164	57717078	rs10958490	57721610
rs1583848	57701577	rs828179	57717559	rs1425591	57722274
rs1364957	57702553	rs1425590	57717712	rs10096961	57723344
rs1364958	57702793	rs7002347	57718369		
rs2670033	57703425	rs828181	57718538		

Table 229 – LD Block 228 – Chromosome 8					
rs16908315 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7818013	82073766	rs10086374	82090958	rs10957994	82104555
rs12679554	82074882	rs2127937	82097219	rs10957995	82105136
rs1348672	82076624	rs13263982	82099049	rs4739610	82105521
rs6473259	82077291	rs13266450	82101336	rs7007923	82107658
rs16908315	**82078655**	rs13276765	82102314	rs2705494	82108786
rs7830556	82081437	rs6981109	82102994		
rs2400340	82083165	rs12676749	82103543		

Table 230 – LD Block 229 – Chromosome 8					
rs1402849 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1915795	84360553	rs2128002	84379245	rs785956	84390227
rs1915796	84360615	rs969298	84379466	rs6473430	84392101
rs4278153	84361024	rs969299	84379591	rs7819306	84392607
rs2400947	84361809	rs969300	84379710	rs13249692	84395125
rs2400948	84361834	rs1357176	84379723	rs2219961	84395139
rs13257129	84362749	**rs1402849**	**84379883**	rs785961	84396903
rs13257710	84362945	rs16911761	84380287	rs785960	84397002
rs13257003	84362961	rs10504784	84380762	rs11990346	84397082
rs10464941	84363660	rs9298402	84381084	rs13253429	84404817
rs13250683	84365524	rs16911765	84381921	rs11779773	84406941
rs9298401	84367357	rs13280896	84383004	rs970643	84407572
rs13248106	84368789	rs785958	84383521	rs1851314	84408066
rs13281231	84368814	rs13263881	84384338	rs1521839	84408420
rs12676906	84369318	rs2170375	84384374	rs2685628	84408577
rs2222389	84370909	rs1383826	84384572	rs1521840	84410875
rs12675598	84372241	rs1383825	84384665	rs2623239	84411429
rs1915806	84373586	rs1383824	84384685	rs2685631	84411872
rs7005418	84374020	rs12676538	84386701	rs1994033	84412208
rs13263245	84375195	rs12674675	84386737	rs1521841	84413057

Table 230 – LD Block 229 – Chromosome 8					
rs1402849 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6996607	84376423	rs12676564	84386840	rs1521842	84413179
rs10109905	84376902	rs12681233	84387049	rs1879698	84415186
rs16911759	84377075	rs12681256	84387173		

Table 231 – LD Block 230 – Chromosome 8					
rs1991352, rs12604, rs3937521 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7838940	85982374	rs2712	85997217	rs9720554	86041168
rs10091245	85982591	rs10081441	85998301	rs1949827	86041876
rs7010343	85982841	rs10109018	85999040	rs9693494	86041977
rs10095682	85983944	rs10958230	86000820	rs2204360	86043540
rs1365668	85985064	rs4739694	86002363	rs9801714	86046203
rs1946400	85987764	rs10104687	86003646	rs9802174	86051266
rs10046686	85987995	rs9650296	86004309	rs1357778	86051602
rs6990756	85989100	rs10958232	86004348	rs2403049	86052026
rs7008839	85989119	rs13279064	86005401	rs2140688	86052578
rs965734	85990298	rs1524639	86009195	rs17811680	86055273
rs2059679	85992579	rs2081673	86016317	rs10104630	86059452
rs7832097	85993405	rs2114524	86016721	rs9692962	86059755
rs10958229	85994551	rs2114525	86016797	rs9692810	86060984
rs1991352	**85995067**	rs1851973	86020712	rs1404365	86062107
rs1991351	85995343	rs10100806	86021251	rs1568805	86065170
rs3937521	**85995409**	rs9693371	86023798	rs1534039	86065938
rs10094238	85995994	rs9298432	86024495	rs9773569	86068072
rs12604	**85996372**	rs1524644	86025527	rs13262058	86068732
rs1025232	85997120	rs1524646	86025789	rs11775954	86196424

Table 232 – LD Block 231 – Chromosome 8					
rs4739700 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2403086	86300456	rs2132589	86322348	rs4739698	86359038
rs4150944	86303149	rs1021583	86322384	rs6993387	86360038
rs9650670	86303693	rs10090196	86327248	rs7008772	86360563
rs3779901	86306029	rs2291786	86329977	rs2006767	86368196
rs3808538	86308563	rs7827175	86335663	rs7818163	86369122
rs4150964	86309777	rs4740044	86343932	rs16913721	86369541
rs4150974	86314716	rs4740045	86343959	**rs4739700**	**86370922**
rs4150977	86314850	rs17740658	86345501	rs1845891	86383578
rs16913681	86315873	rs6605610	86348103	rs7837275	86385337

Table 232 – LD Block 231 – Chromosome 8					
rs4739700 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6990449	86317875	rs13259399	86349617	rs7004871	86388116
rs12550160	86322036	rs6994113	86353884	rs11261471	86388231
rs7001359	86396815	rs4739702	86409576	rs7833737	86426279
rs2279701	86397527	rs6605613	86414521	rs3808539	86427437
rs2279700	86398102	rs12114575	86414769	rs2291787	86428972
rs10111971	86400559	rs11261472	86416882	rs1390711	86429732
rs1014303	86401707	rs903897	86417337	rs1995058	86432166
rs1553015	86405298	rs903896	86417568	rs7011926	86432485
rs1553016	86405650	rs2403104	86418680	rs1995057	86435557
rs11989660	86409061	rs1496533	86420726		

Table 233 – LD Block 232 – Chromosome 8					
rs2645049 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs725605	86454138	rs2725292	86465930	rs2453868	86489948
rs1532424	86455444	rs11261474	86481902	rs2645045	86490526
rs1532423	86455565	rs7813184	86483978	rs1472360	86492450
rs2645049	**86459807**	rs7833798	86484026	rs1390712	86494501
rs6997458	86461282	rs2725296	86484633	rs7000950	86494715

Table 234 – LD Block 233 – Chromosome 8					
rs16870474, rs16870636 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4517090	104541637	rs2246906	104564477	rs1436602	104594981
rs4734711	104545476	rs7817860	104564832	rs7001794	104597321
rs12114365	104545634	rs4734714	104566497	rs7002538	104597628
rs12676448	104548393	rs2469972	104568324	rs13257551	104598141
rs2164547	104553984	rs1898255	104568818	rs1436600	104598602
rs4537276	104555421	rs11783518	104570287	rs16870445	104598881
rs2437769	104557016	rs4734716	104577192	rs11776639	104600563
rs12680395	104558333	rs10505043	104590718	rs11776670	104600682
rs2118059	104559061	rs6993717	104590904	rs7826021	104601610
rs1347603	104559679	rs13257474	104591681	rs17805990	104603201
rs10106671	104560314	rs9297333	104592219	rs4641028	104603641
rs982171	104561012	rs6986085	104594766	rs7836022	104603771
rs7835792	104603865	rs4734719	104622951	rs11785029	104677825
rs17806104	104604687	rs2263210	104624570	rs11785034	104677889
rs4642610	104605386	rs4734720	104627554	rs16870554	104679141
rs4310171	104605447	rs7824743	104638148	rs2160715	104679447

Table 234 – LD Block 233 – Chromosome 8					
rs16870474, rs16870636 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4520130	104605660	rs12550530	104639525	rs1426286	104679572
rs4642611	104605689	rs2449909	104639979	rs17233499	104679590
rs10099408	104606076	rs10102124	104640038	rs1946370	104680059
rs16870474	**104606752**	rs2449910	104640074	rs1946369	104680408
rs2469978	104606891	rs17806929	104640784	rs1579376	104681508
rs6988627	104607137	rs2449911	104641947	rs11785526	104683116
rs7824747	104608070	rs10102523	104642395	rs2469970	104683179
rs7463532	104610402	rs2449912	104645386	rs7839383	104695968
rs12676333	104611548	rs10086733	104645624	rs7824905	104696218
rs10099086	104611748	rs13272442	104647785	rs7825033	104696245
rs2449917	104611941	rs2433253	104650493	rs7825184	104696326
rs10103311	104612877	rs2433254	104650565	rs10955321	104696345
rs7008505	104612955	rs10505046	104651521	rs6468883	104697310
rs7008515	104612972	rs9297334	104652732	rs7818492	104698178
rs17806378	104613678	rs9297335	104652752	rs13265161	104699422
rs13248598	104615107	rs7845290	104654385	rs1991282	104700721
rs10505044	104616645	rs7002996	104655831	rs7841668	104701122
rs2449907	104616781	rs6985202	104655955	rs7823940	104701313
rs13261470	104616902	rs2430749	104664956	rs10505047	104701551
rs2449908	104617070	rs1593495	104665927	rs13278213	104702694
rs13268468	104617135	rs1895899	104671801	rs17807832	104703142
rs6996896	104617660	rs1895900	104671885	rs10086723	104703479
rs1035252	104618959	rs1365287	104671966	rs17234011	104704101
rs2469983	104620682	rs10090537	104674111	rs7837980	104704135
rs10107074	104620975	rs10105750	104674328	rs7838105	104704203
rs10104009	104621106	rs10106092	104674646	rs13260896	104704774
rs10089491	104621314	rs10095409	104675636	rs2430757	104705199
rs10089301	104621346	rs10110202	104675815	rs2433252	104706213
rs2080610	104622584	rs10098555	104676007	rs2430756	104706241
rs2080609	104622621	rs10098692	104676134	rs16870588	104706458
rs10093711	104622668	rs7813485	104676295	rs16870589	104706838
rs6986935	104707158	rs16870614	104741876	rs16870656	104798807
rs17807953	104707681	rs16870616	104741900	rs6990561	104799034
rs6987885	104707723	rs6986283	104742687	rs2554733	104800567
rs11785081	104707949	rs17234389	104743636	rs6468885	104800637
rs6991802	104713836	rs10955323	104743842	rs6468886	104801164
rs1582767	104717478	rs2111491	104748168	rs7822106	104801194
rs10955322	104719128	rs12335106	104749422	rs7832196	104803364
rs769134	104722620	rs12707790	104755332	rs2388782	104803943
rs13439015	104723836	rs1426297	104757139	rs7836355	104804055
rs6995288	104726998	rs1426295	104757298	rs1582771	104805247

Table 234 – LD Block 233 – Chromosome 8					
rs16870474, rs16870636 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11783937	104727459	rs7834353	104759769	rs2176952	104805936
rs1895892	104727957	rs6985834	104761071	rs11776671	104806406
rs7818497	104728286	rs13262669	104762842	rs1607912	104807089
rs7835266	104728418	**rs16870636**	**104762861**	rs1593501	104807132
rs1834571	104729075	rs13262003	104762895	rs12707794	104808062
rs2892596	104729174	rs7843709	104763254	rs7826713	104809182
rs13263306	104729421	rs7843860	104763503	rs7003012	104810989
rs6992377	104731091	rs1593507	104766764	rs2554738	104816283
rs2111493	104731450	rs6985447	104768090	rs7845768	104818910
rs13276150	104732814	rs7003727	104768350	rs7815399	104819345
rs9297336	104734472	rs1176674	104778770	rs1357015	104824125
rs13279952	104736548	rs7016802	104779500	rs6468889	104825938
rs13280576	104736761	rs4734081	104786411	rs3110472	104826602
rs13439652	104737052	rs1116623	104786481	rs3110474	104829528
rs11784812	104737160	rs1176669	104786761	rs10105760	104831383
rs10103024	104737614	rs7835783	104786794	rs6468890	104837978
rs13439734	104738166	rs1176668	104787418	rs3107475	104838958
rs12681640	104738585	rs1176677	104791576	rs17808942	104840188
rs4734725	104739356	rs12543980	104791949	rs13273331	104841172
rs12707788	104740228	rs16870641	104792418	rs17235384	104841800
rs13249502	104740398	rs1176675	104792992	rs13249634	104842669
rs16870611	104740823	rs7002230	104794212	rs1533734	104844907
rs10097250	104741220	rs6982815	104794750	rs1533733	104844937
rs11787180	104741429	rs1521059	104795978	rs9297340	104845336
rs11776707	104741543	rs17234986	104798477	rs12544699	104847172
rs3110460	104848544	rs1402442	104897921	rs10283176	104926055
rs3107472	104852859	rs7836680	104899958	rs2935296	104931014
rs7007619	104853847	rs12544763	104902010	rs13270856	104936237
rs3110461	104853906	rs4734731	104904087	rs16870776	104938099
rs6987829	104853954	rs7833762	104904134	rs10089467	104938144
rs6991576	104854104	rs7818306	104904671	rs6988613	104938756
rs6991464	104854170	rs12541306	104904923	rs1603496	104942887
rs3110462	104859146	rs1874519	104906102	rs7462119	104945236
rs3110463	104863028	rs12675778	104906181	rs6997813	104945748
rs10096287	104864059	rs2388784	104909676	rs1496846	104947190
rs4734730	104879183	rs10955330	104910065	rs1496845	104947287
rs3104253	104880891	rs3107466	104912788	rs16870786	104949987
rs10955327	104880918	rs1521060	104914712	rs2047346	104950017
rs10955328	104880967	rs3824118	104916869	rs924165	104951579
rs6468892	104881626	rs1390847	104918452	rs16870788	104952322
rs16870702	104883333	rs2388849	104920052	rs924163	104954775

Table 234 – LD Block 233 – Chromosome 8					
rs16870474, rs16870636 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10102149	104883444	rs12548742	104920577	rs4463386	104955665
rs1521061	104884548	rs4734733	104921756	rs9650010	104960609
rs3110466	104885430	rs1893531	104922582	rs17816262	104968185
rs1496853	104890035	rs978825	104922843		
rs3110468	104894395	rs12547180	104923846		

Table 235 – LD Block 234 – Chromosome 8					
rs10505052 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2029934	104969488	rs2132644	104977145		
rs10955332	104970754	rs1845928	104977275		

Table 236 – LD Block 235 – Chromosome 8					
rs9297731, rs11992750 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1386787	127258661	rs1488013	127260374	rs10101498	127264780
rs1488012	127258965	rs1488014	127260475	rs13249924	127264944
rs10094775	127266736	rs6996310	127300044	rs10481161	127317947
rs4871666	127267438	rs11997654	127300398	rs1994470	127320139
rs4871667	127267453	rs6997399	127300431	rs4870962	127320385
rs1488027	127268934	rs6998076	127300845	rs1488032	127320670
rs2891807	127277435	rs1601829	127304235	rs1352327	127321302
rs7007177	127277842	rs12114408	127304604	rs1352326	127321416
rs4871668	127278486	rs10956291	127304624	rs1386798	127323666
rs4871669	127278518	rs12114460	127305006	rs6985698	127324985
rs10111802	127279773	rs4242372	127305857	rs4870963	127326240
rs1488011	127279983	rs10956292	127305955	rs936934	127326881
rs718248	127280499	rs11780370	127306142	rs4517085	127331298
rs718249	127280597	rs6470416	127306706	rs4242374	127332172
rs4344042	127287206	rs6470417	127306921	rs4510820	127332197
rs6982103	127288941	rs11784976	127307149	rs4870964	127332224
rs7818805	127291717	**rs9297731**	**127308707**	rs4871680	127332550
rs1906490	127292816	rs7845993	127309835	rs6984050	127333184
rs1948137	127293884	rs10505468	127309905	rs4469417	127334894
rs1948136	127294072	rs6984270	127310450	rs4599775	127336433
rs1948135	127294224	rs13251436	127310474	rs6988272	127337489
rs4871675	127294630	rs6998888	127311212	rs4606025	127339421
rs1488023	127294920	rs6999041	127311260	rs12115115	127339507
rs6995919	127296600	rs6470418	127311456	rs10956295	127339520

Table 236 – LD Block 235 – Chromosome 8					
rs9297731, rs11992750 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7013723	127296601	rs1352325	127311615	rs10956296	127339637
rs7014455	127296928	rs1352324	127311687	rs6981877	127341763
rs1386796	127297319	rs1488019	127311900	rs13251455	127342472
rs1386795	127297331	rs1488018	127312134	rs17363772	127343912
rs6470415	127298340	rs7014830	127314147	rs13264984	127343994
rs1386794	127298777	rs7015450	127314259	rs4871683	127344739
rs1386793	127299068	rs6997283	127314272	rs4242375	127345631
rs1386792	127299109	rs6470420	127315371	rs4242376	127345913
rs1386791	127299176	rs1488026	127315789	rs10090081	127346508
rs1386790	127299560	rs9297732	127317067	rs13439762	127347765
rs1488022	127299860	rs9297733	127317093	rs4291232	127348235
rs12375335	127348631	rs4560755	127361938	rs6993647	127375283
rs4871684	127349390	rs4543509	127362026	rs4557669	127375784
rs10956298	127349819	rs4422742	127362178	rs7834246	127377339
rs4871686	127349854	rs6990457	127362267	rs998238	127377742
rs13439177	127350060	rs4870966	127362983	rs7839058	127378398
rs13259816	127350210	rs4269505	127365329	rs7010361	127378474
rs7822761	127350657	rs7011485	127366198	rs6997109	127379112
rs12545338	127351333	rs10092796	127366492	rs7015014	127379167
rs12545344	127351390	rs13266123	127366712	rs10505469	127379406
rs13259413	127353547	rs11987259	127367306	rs4358772	127379757
rs4242377	127357199	rs11783391	127367344	rs4871688	127381599
rs12335282	127358060	rs7017806	127367773	rs2467631	127382270
rs7017522	127358343	rs7018097	127367828	rs2471943	127382447
rs4621770	127360596	rs4316116	127368844	rs2467627	127384499
rs11995323	127361018	rs4433111	127369793	rs10094322	127384591
rs11784550	127361566	rs10099760	127373556	rs2467626	127385118
rs13251380	127361613	rs4503066	127373691	rs4870968	127386738

Table 237 – LD Block 236 – Chromosome 8					
rs6470447 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6470447	**127575964**	rs12546489	127578420	rs12548156	127582532
rs2385668	127576642	rs6470448	127579658	rs7815182	127586693
rs2385669	127576694	rs10111614	127580467	rs10464865	127587550
rs16901445	127577154	rs16901453	127581044	rs13265970	127588132

Table 238 – LD Block 237 – Chromosome 8					
rs16905619, rs923792 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2317737	137381962	rs1565680	137383806	rs902957	137387795
rs10110281	137382082	rs13260578	137384615	rs923791	137388532
rs1492970	137382220	rs993325	137385467	rs16905600	137388614
rs1873817	137383007	rs9644476	137386722	rs11785233	137388969
rs16905602	137390988	rs1389087	137411596	rs2172418	137414534
rs16905606	137392050	rs16905646	137411912	rs12543793	137414701
rs4909590	137393077	rs12680689	137412267	rs1979685	137414791
rs7820587	137399628	rs7822138	137412329	rs13261516	137415252
rs923792	**137406662**	rs7814778	137413069	rs992206	137415726
rs16905619	**137406986**	rs16905656	137413363	rs6994409	137417956
rs4144340	137409911	rs13259351	137413705	rs6577725	137418225
rs10505652	137410246	rs9644480	137413812	rs7831304	137419139
rs1492983	137410903	rs2047019	137414157	rs4243857	137419310
rs6985770	137411217	rs17622244	137414304	rs4909593	137419638
rs7006673	137411271	rs7832987	137414318	rs4909342	137419705
rs7006712	137411339	rs7820128	137414429	rs6992633	137420348

Table 239 – LD Block 238 – Chromosome 8					
rs7845253 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs13274431	144385752	rs3750213	144415762	rs6558342	144438577
rs7386971	144387314	rs7386594	144416609	rs4330705	144446878
rs7387173	144388359	rs3750214	144417348	rs4332150	144447440
rs11775496	144390918	rs3750215	144417533	rs6651422	144448256
rs13282799	144392203	rs7387008	144417757	rs7386102	144453567
rs6558337	144393981	rs3829015	144417993	rs7387720	144453944
rs13277059	144395067	rs3829016	144418129	rs7844641	144456063
rs7387581	144397279	rs7819483	144422769	rs7386885	144457646
rs7387879	144400672	rs4545119	144427807	rs9644251	144459208
rs11136274	144401229	rs3812433	144428854	rs4392912	144459294
rs7464066	144401827	rs3829017	144429095	rs6558347	144466062
rs4570175	144404690	rs7387207	144429147	rs10099996	144467771
rs4495442	144405211	rs1056148	144429756	rs7820377	144470238
rs2272631	144406670	rs7388117	144433332	rs7388488	144472366
rs7815716	144408731	rs4471055	144433624	rs724037	144473221
rs7824894	144410365	rs4419827	144434469	rs3812435	144477954
rs10090179	144410428	rs11782193	144435954	rs11544484	144478080
rs13276942	144412024	rs12674761	144436949		

Table 240 – LD Block 239 – Chromosome 9					
rs12342908 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7037863	4498597	rs1888279	4504788	rs17755777	4506768
rs10974584	4499590	rs4008488	4504963	rs17812250	4507894
rs7030825	4499735	rs12338459	4505339	rs10117861	4508484
rs2094806	4500926	rs10974587	4505470	rs17812268	4508848
rs2150195	4501788	rs10814997	4506070	rs10115600	4509369
rs7041093	4502200	**rs12342908**	**4506255**	rs10118909	4509960
rs1980943	4504246	rs10814998	4506598		

Table 241 – LD Block 240 – Chromosome 9					
rs7864876, rs12552574 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10976892	8254250	rs1500302	8259395	rs1157099	8272909
rs10976893	8254347	rs3847282	8259791	rs1500307	8273179
rs10976894	8254515	rs12005381	8260002	rs10815817	8273494
rs10976895	8254661	rs10976910	8260248	rs10116379	8274091
rs7024245	8254944	rs10815816	8260830	rs10122381	8274185
rs10976898	8255280	rs7042696	8261465	rs1472534	8274398
rs10976899	8255301	rs7031618	8261892	rs1472535	8274560
rs10815815	8255633	rs7021246	8263971	rs7872818	8274751
rs12115294	8256002	rs4124865	8264324	rs7872830	8274789
rs9785185	8256226	rs7864066	8267169	rs7872167	8274955
rs10976900	8256280	rs3843578	8267634	rs7872172	8274965
rs1546256	8256584	rs7042655	8268669	**rs7864876**	**8275015**
rs2173709	8256729	rs1500304	8269622	rs7862136	8275325
rs10976902	8256838	rs1500305	8269817	rs989932	8276694
rs10976903	8256937	rs1500306	8269847	rs1909760	8277604
rs10976904	8256993	rs16927434	8270666	rs7032230	8278518
rs10976905	8257312	rs1875241	8270788	rs7020531	8278534
rs1027581	8257413	rs1392507	8270846	rs10976918	8279350
rs2133789	8257580	rs1392508	8270950	rs4084051	8280220
rs1027584	8258051	rs1392509	8270981	rs10758950	8280816
rs950832	8258198	rs7860372	8271790	rs12347682	8282974
rs10976907	8258343	rs7024924	8272399	rs10122790	8283169
rs7025712	8259073	rs12551280	8272895		

Table 242 – LD Block 241 – Chromosome 9					
rs598768 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs602962	9569104	rs603229	9574082	rs598356	9578824

Table 242 – LD Block 241 – Chromosome 9					
rs598768 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs588996	9569884	rs581604	9574099	rs585212	9578970
rs668026	9571692	rs7858602	9575658	**rs598768**	**9579682**
rs679640	9571738	rs676855	9577666	rs657849	9583722
rs681437	9572128	rs610789	9578336	rs1412398	9589213
rs582218	9573921	rs680102	9578412	rs651116	9589450

Table 243 – LD Block 242 – Chromosome 9					
rs7855342 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7024350	13623082	rs12684745	13631828	rs721577	13649321
rs13293842	13624502	rs10120985	13632665	rs8192964	13650128
rs10961182	13624720	rs7855204	13632989	rs8192965	13650596
rs10961183	13625017	rs8192959	13635265	rs8192966	13650943
rs12352645	13625181	rs7860438	13637863	rs8192967	13651044
rs12002890	13626621	rs10810001	13638463	rs8192968	13651080
rs13296092	13628311	rs16930626	13638529	rs942389	13651244
rs13301366	13629092	rs12002484	13643668	rs8192969	13651455
rs16930599	13629140	rs12342582	13645913	rs6474790	13654561
rs16930601	13629416	rs12000174	13646343	rs17193343	13655403
rs7859899	13630354	rs10810002	13646950	rs17193379	13656208
rs12684714	13631420	rs10961187	13647571	rs10961191	13657639
rs12684743	13631808	rs7025981	13648329		

Table 244 – LD Block 243 – Chromosome 9					
rs1547761 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1547761	**16908196**	rs7853148	16911847		
rs6475097	16910749	rs1001300	16915830		

Table 245 – LD Block 244 – Chromosome 9					
rs2772577, rs2844025, rs2772575, rs2805063, rs1157849, rs1888108 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2772579	24535695	**rs2844025**	**24545938**	**rs1888108**	**24562490**
rs2772578	24535957	**rs2805063**	**24554198**	rs2844019	24588119
rs2772577	**24537232**	rs16908522	24554885		
rs2772575	**24545849**	rs1162601	24560614		

Table 246 – LD Block 245 – Chromosome 9					
rs10966371 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7027095	24620409	rs1591105	24639569	rs1360563	24641946
rs10966354	24626772	rs1610013	24639916	rs10812072	24642276
rs4357389	24635754	rs1576884	24640087	rs6475805	24648725
rs2095095	24639010	rs10812071	24640899	rs10812073	24650755
rs1332675	24639221	rs2183997	24641526		
rs4345652	24639431	rs1360562	24641839		

Table 247 – LD Block 246 – Chromosome 9					
rs1058326 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1161678	27429933	rs2589054	27433802	rs1058324	27437320
rs2814699	27433243	rs10812596	27435104	rs1822725	27437434
rs2764329	27433374	**rs1058326**	**27437089**		

Table 248 – LD Block 247 – Chromosome 9					
rs4880015, rs2800257 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10758401	36788742	**rs2800257**	**36795874**	rs1327501	36799551
rs2025840	36791146	**rs4880015**	**36796356**	rs2851701	36799712
rs2851703	36791593	rs13294984	36797412	rs10814457	36800552
rs12340833	36792626	rs10814455	36798003	rs7850874	36802517
rs2851702	36795725	rs10814456	36798379		

Table 249 – LD Block 248 – Chromosome 9					
rs11138425 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17729057	81757632	rs7044104	81765006	rs1411073	81769731
rs10867449	81758349	rs11138430	81765253	rs12686796	81772273
rs6559518	81758871	rs7039979	81765888	rs4877524	81772813
rs2378427	81759626	rs11138432	81766286	rs4877525	81772834
rs7867901	81760727	rs6559519	81766725	rs4571806	81772983
rs962882	81761714	rs10125508	81767635	rs2039143	81773589
rs962883	81762028	rs17801845	81769509	rs17801857	81774224

Table 250 – LD Block 249 – Chromosome 9					
rs11140959 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4877928	87207881	rs2593000	87220837	rs2814741	87226192

Table 250 – LD Block 249 – Chromosome 9					
rs11140959 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2841455	87208676	rs2593001	87221625	rs2593010	87226474
rs11140959	**87209877**	rs2593002	87224313	rs2841463	87227924
rs3849870	87213187	rs1545369	87224502	rs7048862	87230091
rs2814727	87214200	rs2492830	87224617	rs4877933	87231436
rs2592998	87218954	rs4877931	87224908	rs12236186	87231976
rs4877929	87219806	rs2814742	87225352	rs4877934	87232043
rs4877930	87219834	rs7030883	87225561	rs13292809	87233008
rs2814730	87219986	rs2841460	87225791	rs17088670	87233296
rs2814731	87220781	rs2841461	87225827	rs7028056	87233625

Table 251 – LD Block 250 – Chromosome 9					
rs12347890 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1435260	100086084	**rs12347890**	**100086832**	rs1435257	100088338
rs1435259	100086262	rs10156520	100087577	rs1435255	100088878
rs1435258	100086306	rs10985747	100087862		

Table 252 – LD Block 251 – Chromosome 9					
rs12001151 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10980070	111624544	rs7871857	111626631	rs10733573	111631347
rs7040833	111625695	**rs12001151**	**111629022**	rs7867595	111632676
rs4313220	111625775	rs2418050	111629275		

Table 253 – LD Block 252 – Chromosome 9					
rs10817866, rs10122701 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1411820	118066728	**rs10122701**	**118066783**	**rs10817866**	**118066897**

Table 254 – LD Block 253 – Chromosome 9					
rs7854428 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1331140	118067539	rs10513269	118070228	rs4837294	118074296
rs11791668	118067585	**rs7854428**	**118070597**	rs10983095	118075693
rs10983092	118068584	rs1999351	118071318		
rs7851174	118070139	rs1331138	118072436		

5

Table 255 – LD Block 254 – Chromosome 9					
rs10760031, rs1332447 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs487240	121075956	**rs10760031**	**121078681**	rs1221143	121081281
rs914651	121076814	rs679134	121079218	rs1221144	121082332
rs914650	121076947	rs7856309	121079328	rs471215	121083377
rs914648	121077499	rs680003	121079397	rs792933	121083641
rs1221140	121077998	rs7856245	121079525	rs661999	121084242
rs1332447	**121078315**	rs731133	121079683		

Table 256 – LD Block 255 – Chromosome 10					
rs11250787 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4076747	1820815	rs4242730	1823797	rs10794791	1829850
rs4076746	1820848	rs4300331	1824745	rs11250791	1830006
rs4627005	1820917	rs4459217	1825152	rs7475202	1830995
rs17156936	1821369	rs17156958	1826223	rs4880923	1832339
rs11250787	**1821994**	rs9633666	1826595	rs3861053	1834000
rs11250789	1822498	rs4880919	1828343	rs10903561	1834594
rs4074986	1822706	rs10508217	1828859		
rs4074985	1822727	rs4880921	1829658		

Table 257 – LD Block 256 – Chromosome 10					
rs4747358, rs11259742 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11259742	**5687084**	rs4748301	5688025	rs4747351	5690052
rs17138235	5687413	rs4748304	5688107	**rs4747358**	**5690199**
rs4748295	5687948	rs7907173	5688793		

Table 258 – LD Block 257 – Chromosome 10					
rs1317516 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4749799	5707230	rs12764801	5717082	rs1132293	5721044
rs2386661	5710281	rs2386651	5718037	rs11256474	5721789
rs7092383	5711107	rs2386650	5718064	rs3750645	5722076
rs7073741	5711219	rs11256322	5718681	rs12414278	5722310
rs4749834	5711814	rs7896605	5719047	rs4427479	5722861
rs2386660	5712065	rs4749922	5720695	rs3750642	5723655
rs2386659	5712202	rs4601655	5720744	rs1002936	5725215
rs1317517	5712586	rs2386649	5720848	rs7909299	5725307
rs1317516	**5712726**	rs1132305	5720890	rs7899908	5726479
rs1317212	5713333	rs1573	5720902	rs11256654	5726493

Table 258 – LD Block 257 – Chromosome 10					
rs1317516 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2386655	5713534	rs2386648	5720920	rs10795802	5727118
rs4749853	5714764	rs1575	5720972	rs11256772	5728027

Table 259 – LD Block 258 – Chromosome 10					
rs7073480 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2147279	13252890	rs6602637	13254818	rs1535856	13257946
rs7073480	**13254166**	rs10752288	13256844		

Table 260 – LD Block 259 – Chromosome 10					
rs7085600 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11011884	20551231	rs7073927	20556872	rs16920135	20558377
rs7075954	20554776	rs7074175	20556984	rs16920137	20558620
rs11011890	20556332	rs7070780	20557088	rs11011892	20558772
rs7083165	20556593	rs7070787	20557118	rs11011893	20559131
rs7085600	**20556744**	rs11011891	20557880	rs11011894	20559199

Table 261 – LD Block 260 – Chromosome 10					
rs17522290 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7087994	25223851	rs1409306	25245971	rs4748992	25259675
rs7901000	25224547	rs7896608	25246418	rs1409307	25259844
rs7072126	25226488	rs7908585	25246560	rs7078660	25260039
rs6482453	25230871	rs10828724	25247409	rs7080423	25261436
rs9971228	25233324	rs7091639	25251330	rs12255703	25261753
rs2148271	25237140	rs6482462	25253056	rs12571791	25262398
rs10828721	25238228	rs4319409	25255959	rs11818463	25263373
rs11014291	25238693	rs1033962	25256812	rs752224	25263512
rs16925145	25238788	rs7918015	25256997	rs1078552	25263647
rs10828722	25239957	rs7902275	25257344	rs11014306	25264468
rs6482455	25240463	rs7901363	25257360	rs1033963	25264601
rs7084900	25241591	rs10828725	25258249	rs11014307	25264724
rs11014297	25242050	rs12256206	25258812	rs11014308	25264745
rs10828723	25245064	rs4748991	25259550	rs11014309	25264761

Table 262 – LD Block 261 – Chromosome 10					
rs2776938 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10827253	33714988	rs2804456	33715059	**rs2776938**	**33716916**

Table 263 – LD Block 262 – Chromosome 10					
rs2785262 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10763931	33717329	rs7097345	33719783	rs2804884	33723096
rs2891373	33717927	rs7097128	33719908	rs4934962	33726619
rs4617532	33719061	rs10827256	33720919	rs3851080	33727303
rs7093323	33719554	rs2804885	33722898	rs2785264	33729749
rs11009371	33719756	rs10763932	33722918		

Table 264 – LD Block 263 – Chromosome 10					
rs6479917 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10995604	65169628	rs4746379	65170976	rs4543877	65172027
rs3864799	65172388	**rs6479917**	**65182345**	rs3912165	65187697
rs11592426	65174098	rs6479918	65182413	rs12241544	65188796
rs10822202	65176602	rs3912164	65184410	rs10740140	65189760
rs4746387	65179581	rs10995614	65186182		

Table 265 – LD Block 264 – Chromosome 10					
rs11185884, rs9325443, rs1409358, rs7095818, rs10430645, rs11185831, rs7076259, rs10881618, rs7087789, rs7895379, rs7100603, rs7096466, rs962524 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10159610	91378579	rs12572869	91403348	rs7073626	91418384
rs6586210	91378771	rs6586213	91406064	rs7905382	91418620
rs10881613	91379205	rs7094633	91406730	rs943127	91418926
rs927907	91379718	rs11185830	91407260	rs745215	91419251
rs12762448	91380220	rs10785893	91407539	rs1409357	91419456
rs6586211	91380814	rs10785894	91407618	rs3908479	91420161
rs12771413	91382747	rs10785895	91408240	rs2420640	91421278
rs11185822	91382993	rs7088570	91408454	rs749607	91422279
rs11185824	91383692	rs1326262	91408771	rs17125834	91423142
rs11330	91384059	rs12779880	91409274	rs12571918	91424657
rs10727	91384087	rs10881615	91409411	rs12776306	91426037
rs1359625	91384999	**rs11185831**	**91409604**	rs4317899	91426553
rs1359624	91385408	rs12218194	91409976	rs7095044	91427618
rs7073802	91388429	rs11185833	91411059	rs7078321	91428078
rs10881614	91388464	rs10881617	91412034	rs17125984	91428097

Table 265 – LD Block 264 – Chromosome 10					
rs11185884, rs9325443, rs1409358, rs7095818, rs10430645, rs11185831, rs7076259, rs10881618, rs7087789, rs7895379, rs7100603, rs7096466, rs962524 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4934490	91389712	**rs10881618**	**91412609**	rs11185837	91428340
rs727427	91390364	rs7098233	91412848	rs11599335	91430036
rs943130	91390458	rs10785896	91413361	rs10881620	91430268
rs11185825	91391829	rs7087240	91413572	rs1326261	91430401
rs1359623	91392522	**rs7100603**	**91415745**	rs11185839	91431011
rs17125278	91392857	rs7097496	91416048	rs11814174	91433353
rs997456	91393960	rs10881619	91417527	rs11597847	91433407
rs12572608	91396907	**rs1409358**	**91417813**	rs11598411	91433792
rs716781	91399801	rs943128	91418201	rs4934493	91434109
rs7076259	**91402582**	rs11595126	91418263	rs10881621	91434765
rs4934494	91437399	rs11185849	91459944	rs7909550	91492783
rs7088104	91438054	rs6586218	91460481	rs10509580	91496684
rs1536314	91439858	rs7089473	91460640	rs7898670	91500069
rs1326260	91439887	rs1048057	91460814	rs2077946	91501439
rs1326259	91439976	rs12414269	91464519	rs7092444	91502717
rs10785898	91440231	rs3740035	91466445	rs1926138	91502948
rs12414170	91440360	rs3758385	91467046	rs2026550	91508219
rs6586215	91440968	rs17484219	91469191	rs3740037	91512290
rs7098988	91442796	rs7069937	91469869	rs3740038	91512585
rs2104499	91443176	rs7085805	91470216	rs17127001	91512669
rs12573024	91443598	**rs10430645**	**91470906**	rs12767644	91512687
rs12573060	91443832	rs10430646	91470999	rs10881664	91516512
rs17126269	91444711	rs12783845	91472609	rs1409321	91517171
rs11185843	91445486	rs4934495	91472747	rs7912458	91518350
rs7079243	91445590	**rs7096466**	**91472900**	rs7912464	91518364
rs1409355	91446615	rs8181361	91474760	rs3824609	91518421
rs7076351	91447884	rs8181406	91475822	**rs962524**	**91518838**
rs7089645	91448073	rs9663129	91477264	**rs7095818**	**91519465**
rs12569886	91448365	rs12572012	91477629	rs7081362	91521695
rs12571268	91448567	rs10881641	91478204	rs12250365	91522159
rs1555882	91448781	rs3758388	91478959	rs10881666	91522218
rs1555881	91449214	rs10881645	91480067	rs2900752	91522814
rs10881625	91449893	rs10881646	91480337	rs1555868	91523004
rs9325443	**91451052**	rs10881647	91480340	rs10881667	91524778
rs11598257	91451100	rs2026553	91480879	rs10881668	91529447
rs11593892	91451133	rs2026552	91480940	rs2148277	91529559
rs9325444	91451248	rs11185861	91483670	rs10881669	91529987
rs7077349	91455780	rs10509579	91485752	rs11185879	91530313
rs11816741	91456540	**rs7895379**	**91486687**	rs12254296	91531143
rs10881628	91457845	rs1062465	91487611	rs11185880	91531761

Table 265 – LD Block 264 – Chromosome 10					
rs11185884, rs9325443, rs1409358, rs7095818, rs10430645, rs11185831, rs7076259, rs10881618, rs7087789, rs7895379, rs7100603, rs7096466, rs962524 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs10881629	91457875	rs1886996	91488107	rs10881670	91534724
rs2182396	91458281	rs1886997	91488234	rs4934499	91540524
rs3758383	91458905	rs12413697	91488455	rs2419057	91540999
rs10881631	91459556	rs2418929	91491457	rs10881674	91542910
rs12572928	91543529	rs10881678	91560885	rs6583662	91576096
rs10881675	91543539	rs10881679	91561180	rs12240414	91576794
rs11185884	**91545206**	rs4274138	91561298	rs7895137	91577003
rs2900813	91546074	rs1326196	91561901	rs7895530	91577329
rs4934502	91547203	rs10785906	91562656	rs7895851	91577381
rs7095702	91549507	rs11185888	91563257	rs7895863	91577409
rs1409318	91550416	rs11185889	91563356	rs7899499	91577981
rs2104370	91553873	rs1326195	91563433	rs17385594	91578553
rs7100756	91554962	rs10785907	91563972	rs12244597	91579138
rs12763178	91555970	rs7071258	91564604	rs1125326	91582178
rs1324699	91556037	rs7071283	91564754	rs10881684	91583149
rs1324700	91556182	rs17127588	91565624	rs11185896	91583196
rs10785903	91556564	rs11185892	91565656	rs12763984	91585946
rs10881677	91556941	rs11185893	91565712	rs12763878	91586407
rs1998646	91557676	rs11185895	91567219	rs3740040	91587406
rs12776628	91558110	rs12244762	91570192	rs1326198	91587616
rs729044	91559285	rs4933161	91574159	rs3740042	91587899
rs735936	91559476	rs12265484	91574555	rs3740043	91588493
rs735934	91559558	rs7918018	91575258		
rs913033	91559667	rs7083051	91576021		

Table 266 – LD Block 265 – Chromosome 10					
rs17482340, rs7921092, rs17391661 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1977834	95211297	rs6583890	95215438	rs4919163	95220797
rs17108714	95211436	rs10786102	95215588	rs7911195	95221170
rs17108718	95211770	rs12571808	95218142	rs871420	95222669
rs11187438	95212659	rs1880260	95218318	rs871421	95222721
rs12358603	95212843	rs10882239	95218674	rs7913298	95223365
rs12240900	95213815	rs10882240	95218707	rs871427	95223383
rs10882237	95214414	rs17108751	95219488	rs871426	95223616
rs17482298	95215111	rs1474351	95219577	rs1105340	95223846
rs17482340	**95215147**	rs4919158	95220605	rs2004558	95224472
rs17108780	95224963	rs2096181	95227851	**rs7921092**	**95233798**
rs7922093	95225398	rs6583893	95228040	rs7907110	95234260

Table 266 – LD Block 265 – Chromosome 10					
rs17482340, rs7921092, rs17391661 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17391661	**95225923**	rs17108795	95228670	rs947603	95239595
rs11187447	95225945	rs882873	95231976		

Table 267 – LD Block 266 – Chromosome 10					
rs12251811 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9420319	123090252	**rs12251811**	**123094664**		

Table 268 – LD Block 267 – Chromosome 10					
rs4962731 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12252854	125999320	rs10901871	126003306	rs4962733	126006769
rs10901866	125999531	rs4437984	126003737	rs4962734	126006910
rs12240293	126000251	rs6597885	126004752	rs982957	126007781
rs11594231	126000910	rs6597886	126004859	rs2807068	126008105
rs11599155	126000945	rs12570255	126005182	rs2674353	126015025
rs10901869	126001520	**rs4962731**	**126006478**	rs11244409	126015231
rs7917787	126002374	rs4962732	126006539	rs2674354	126016808

Table 269 – LD Block 268 – Chromosome 10					
rs1936887, rs4751472, rs1936860, rs7921461, rs7083606 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2386914	129384729	rs4751476	129390908	rs1887013	129416932
rs6482946	129384882	rs7919990	129392388	rs1887012	129416983
rs7071707	129385611	**rs7083606**	**129409122**	rs1887011	129417002
rs7071873	129385741	rs11018288	129416118	rs2840332	129417129
rs2386916	129386540	rs5002823	129416595		
rs7910062	129389624	rs10830172	129416613		

Table 270 – LD Block 269 – Chromosome 10					
rs4481949 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12220327	134029817	rs10870301	134036762	rs10870303	134041801
rs7079070	134032911	rs4443996	134040995		
rs10870300	134034397	rs10870302	134041728		

5

Table 271 – LD Block 270 – Chromosome 11					
rs10839691 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1156526	6979293	rs12795873	7003099	rs7118931	7026688
rs10769750	6980117	rs12418969	7003731	rs10839700	7027299
rs7932579	6980264	rs7104375	7004955	rs1552727	7027442
rs11041129	6981354	rs10839692	7005716	rs1491828	7027964
rs16921141	6981672	rs902732	7006438	rs10839701	7027983
rs4758150	6982250	rs902733	7006504	rs10839702	7027998
rs11041131	6983167	rs964502	7007185	rs1552722	7028596
rs10839681	6985735	rs902736	7009451	rs10839706	7031190
rs12363808	6987231	rs10839695	7010743	rs1602570	7032217
rs10769751	6987536	rs10839696	7010855	rs10500675	7034097
rs10839682	6989148	rs10743000	7011654	rs16921939	7035380
rs10839683	6989252	rs10734613	7011862	rs10839708	7035614
rs10839684	6989549	rs10743002	7011959	rs10500676	7035837
rs11041134	6989854	rs721322	7013413	rs10839709	7037447
rs12285843	6991449	rs10500674	7014584	rs1388539	7039402
rs11041136	6991932	rs11041148	7014865	rs1979669	7039771
rs10839688	6993686	rs11041149	7015461	rs1907613	7039835
rs10839689	6993786	rs17194591	7015824	rs4758155	7043471
rs6578820	6994405	rs7103238	7017914	rs4758157	7047296
rs2035845	6994826	rs7114066	7018101	rs10769762	7047933
rs7938434	6997245	rs969232	7018147	rs17280682	7048145
rs10769752	6997316	rs969233	7018358	rs10839711	7049409
rs7926373	6997699	rs10160529	7019855	rs11041157	7049469
rs2291536	6998474	rs6578821	7021865	rs902737	7049560
rs1388531	7000141	rs1491821	7022415	rs11041158	7050317
rs7106879	7001781	rs16921772	7023265	rs11041159	7050385
rs7936892	7003053	rs12807652	7026248	rs879464	7050420
rs7131269	7051570	rs6578823	7060104	rs4639912	7080516
rs6578822	7051585	rs7125281	7063102	rs6578831	7085817
rs7130640	7051766	rs7129581	7063468	rs12364409	7088070
rs10769764	7051898	rs6578828	7069710	rs11041186	7088352
rs11041162	7052608	rs4462317	7069761	rs9804546	7088763
rs7104702	7052891	rs4758160	7071331	rs9804679	7088821
rs1552728	7053087	rs4758161	7071575	rs9804633	7089091
rs10743007	7055137	rs10839718	7072260	rs11041187	7089770
rs10500677	7056852	rs10839719	7072274	rs7102031	7090380
rs10839715	7058372	rs11041174	7074587	rs7116720	7090494
rs10839716	7058405	rs4277091	7074658	rs11041189	7091505
rs7946141	7059169	rs11041175	7075268	rs7110807	7092646
rs11041166	7059631	rs4758162	7075586	rs7950986	7093793
rs7934869	7059687	rs4758163	7075688	rs1507625	7094192

Table 271 – LD Block 270 – Chromosome 11					
rs10839691 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7952722	7059723	rs7940567	7078885	rs7926004	7097708
rs7934981	7059755	rs11041178	7080366		

Table 272 – LD Block 271 – Chromosome 11					
rs7936953 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11027350	23553039	rs11027363	23555723	rs16911583	23568470
rs10500964	23553146	rs11027364	23555965	rs11027386	23568579
rs10500965	23553201	rs11027365	23555975	rs11027387	23568701
rs11027351	23553378	rs7107114	23557657	rs11027388	23568839
rs11027352	23553451	rs6483967	23558179	rs11820465	23569499
rs11027356	23553651	rs7931058	23558380	rs11027390	23569599
rs11027358	23553738	rs11826579	23558735	rs11027392	23570056
rs10767087	23553921	rs11027371	23558897	rs10767090	23573333
rs7125322	23554721	rs11027372	23559132	rs10767091	23573442
rs7109299	23554778	rs7480684	23559295	rs10834152	23573637
rs11027360	23555202	rs1519409	23559598	rs7124193	23574421
rs7109756	23555218	rs11027377	23561412	rs11027393	23574512
rs7109856	23555240	rs11822338	23564641	rs10834153	23574577
rs4922663	23555318	rs2139333	23565626	rs16911592	23575432
rs10767092	23575967	rs7939820	23585228	rs7926040	23586922
rs11823466	23578823	rs7950168	23585521	rs11027397	23595901
rs7930950	23579465	**rs7936953**	**23585866**	rs1401618	23604116

Table 273 – LD Block 272 – Chromosome 11					
rs10501091, rs10835218 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10835218	**27736226**	rs16917303	27741351	rs10501089	27745435
rs728633	27738555	rs16917304	27742358	rs11601962	27746879
rs728634	27738783	rs11030134	27743050	rs17244217	27747686
rs11030132	27738867	rs4923473	27743994	rs10835219	27747754
rs16917299	27740391	**rs10501091**	**27744359**		
rs16917301	27741072	rs10501090	27744498		

Table 274 – LD Block 273 – Chromosome 11					
rs10768377 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12806812	38357792	rs11034707	38374673	rs11034709	38384865
rs11034703	38357977	rs10768376	38375021	rs10501197	38385222

Table 274 – LD Block 273 – Chromosome 11					
rs10768377 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17620340	38358692	rs11599977	38375883	**rs10768377**	**38386001**
rs4756435	38358960	rs12270055	38376299	rs17620718	38386623
rs4756436	38359290	rs10836963	38376796	rs6484995	38387090
rs1369320	38360224	rs12793063	38377266	rs2082759	38388292
rs1435146	38361231	rs11605286	38377776	rs10768378	38388660
rs1435147	38361299	rs2164253	38378988	rs11034710	38389505
rs11606363	38362117	rs12361836	38379428	rs10836966	38389576
rs12788223	38363752	rs2861184	38379461	rs11034711	38389637
rs12365550	38365237	rs12361839	38379555	rs10501198	38389821
rs1369321	38365764	rs2901881	38379782	rs11825688	38390400
rs1369322	38366019	rs2164254	38380461	rs10836968	38391196
rs1435148	38367088	rs2117580	38380703	rs11034713	38391328
rs7479038	38367791	rs10836964	38383986	rs11034715	38394456
rs4756438	38371677	rs7929709	38384717	rs11601949	38394687
rs17620842	38394725	rs4271366	38402323	rs1550064	38407976
rs12786969	38395092	rs12276439	38402423	rs1550063	38408059
rs11034720	38396959	rs4290204	38402476	rs4756439	38409003
rs11034721	38397285	rs10836970	38402580	rs7116317	38409822
rs11034723	38398986	rs7946202	38402865	rs1369323	38410997
rs7947593	38399694	rs11034724	38403518	rs1435161	38411665
rs17621100	38400010	rs12787240	38404203	rs1435160	38411865
rs17694214	38400384	rs17621402	38404820	rs1897938	38411961
rs7938730	38401344	rs7102912	38404835	rs7123042	38414672
rs7942076	38401757	rs7117674	38404910	rs1435159	38415104
rs17621211	38402291	rs17621470	38404986	rs7107634	38415143

Table 275 – LD Block 274 – Chromosome 11					
rs1792325 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1792325	**70790952**	rs1540128	70795836	rs1790366	70800579
rs1790375	70791268	rs1790361	70796216	rs1792240	70800989
rs1790374	70791493	rs1792243	70796329	rs1790369	70802412
rs2511011	70791782	rs4944042	70796436	rs3763856	70802993
rs2511280	70791940	rs4944043	70796473	rs1790372	70803290
rs1790358	70793094	rs1790364	70797743	rs1617153	70804243
rs13377288	70793279	rs4944044	70797861	rs1792260	70805111
rs1792322	70793288	rs1792248	70797935	rs4944890	70805619
rs7105151	70794967	rs11233555	70799266	rs1790335	70805783
rs7125171	70795111	rs12285140	70799302	rs1540130	70806840
rs1557465	70795292	rs2511277	70799799		

Table 275 – LD Block 274 – Chromosome 11					
rs1792325 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1557466	70795363	rs1790365	70800010		

Table 276 – LD Block 275 – Chromosome 11					
rs506396 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs880762	78735227	rs4945344	78737722	rs11828510	78739462
rs506396	**78735898**	rs954129	78738444	rs17138171	78740578
rs11237796	78737092	rs498900	78738541	rs10501438	78742127

Table 277 – LD Block 276 – Chromosome 11					
rs536962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7932890	78746042	rs546868	78750426	rs493736	78755541
rs536962	**78746092**	rs492504	78751914	rs12295799	78755953
rs556857	78746196	rs1533127	78752716	rs11237805	78756317
rs7125703	78746366	rs17138230	78753500	rs493524	78758254
rs1511241	78746402	rs7947157	78754356	rs1944449	78760897
rs10047456	78747541	rs12576775	78754841	rs12290811	78761268
rs538906	78748658	rs7947534	78754884	rs549683	78762957
rs481975	78749367	rs471435	78755393	rs10501439	78763494

Table 278 – LD Block 277 – Chromosome 11					
rs496321 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs496321	**94526280**	rs473213	94526454		

Table 279 – LD Block 278 – Chromosome 11					
rs658899, rs667504 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3847566	100206703	rs639926	100214321	rs10895021	100226099
rs529751	100207969	rs3758698	100215275	rs11224485	100226737
rs11224479	100209159	rs623540	100218006	rs619191	100227348
rs648435	100210458	rs12785918	100218437	rs633021	100228197
rs648388	100210484	**rs667504**	**100221671**	rs513429	100230439
rs561267	100210990	rs492138	100222566		
rs658899	**100211415**	rs637127	100223836		

5

Table 280 – LD Block 279 – Chromosome 11					
rs10750596 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11224490	100235863	rs1941369	100243462	rs12808052	100248708
rs629425	100237862	rs10895023	100244355	rs7115233	100248822
rs618663	100237982	rs10488787	100245140	rs592563	100252376
rs614686	100238802	rs12221922	100245878	rs7342248	100255370
rs12274135	100239220	rs10791428	100246136		
rs2099853	100241841	**rs10750596**	**100248072**		

Table 281 – LD Block 280 – Chromosome 11					
rs17119713 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17119713	**115843885**	rs1848373	115846335	rs12295901	115852606
rs12289284	115844024	rs11215950	115846895	rs11215954	115853276
rs1508098	115844109	rs17119728	115847555	rs11824414	115853322
rs11215948	115844898	rs7110240	115849058	rs3938035	115853361
rs4471466	115846170	rs17119743	115849614	rs2102405	115853378

Table 282 – LD Block 281 – Chromosome 11					
rs2155857, rs10502229 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2155855	117479810	rs11216757	117480977	rs10892215	117483313
rs2155856	117479849	rs11216759	117481087	rs1894177	117483474
rs11216754	117479903	rs11216760	117481278	rs17121713	117484077
rs2155857	**117479969**	rs10790232	117481542	rs17121717	117484361
rs9645662	117480042	rs10790234	117482888	**rs10502229**	**117485180**
rs3819109	117480283	rs11216762	117482903	rs11216768	117486818
rs11216756	117480837	rs6589646	117483159	rs10892218	117487499

Table 283 – LD Block 282 – Chromosome 11					
rs2725438 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1506876	132222823	**rs2725438**	**132223406**		

Table 284 – LD Block 283 – Chromosome 12					
rs1920024 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11612817	52479850	rs2886438	52489172	rs7133586	52512030
rs11170696	52481631	rs10876500	52493052	rs11170706	52512524
rs1470444	52482367	rs11170702	52499080		

Table 284 – LD Block 283 – Chromosome 12					
rs1920024 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1550778	52482862	**rs1920024**	**52507715**		

Table 285 – LD Block 284 – Chromosome 12					
rs905696, rs1882174 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10878511	65499078	rs10506502	65511796	**rs905696**	**65531066**
rs1480011	65499992	rs12582121	65512629	rs12312778	65531280
rs1351329	65501389	rs11176442	65513521	rs905697	65531357
rs11176435	65501759	rs17182385	65514516	rs4913506	65531545
rs11176436	65501964	rs12826886	65516332	rs4913507	65531859
rs12227836	65502254	rs17827355	65517456	rs12230393	65532089
rs1882174	**65503175**	rs12319096	65518956	rs12301508	65532687
rs11176438	65505300	rs12426956	65519114	rs12320157	65533373
rs11176439	65505745	rs11176443	65519701	rs1504309	65533391
rs12229666	65505862	rs10506504	65519719	rs1504310	65533581
rs1921003	65508322	rs10506505	65520566	rs1252259	65533903
rs7301821	65508501	rs11176445	65521240	rs10506507	65534216
rs11176440	65508664	rs10506506	65521434	rs12322170	65534676
rs7971153	65509418	rs1921006	65523357	rs11176450	65535062
rs7957813	65509506	rs6581721	65526302	rs2062858	65535505
rs12318172	65509635	rs11176449	65527920	rs2062859	65535527
rs12306499	65510370	rs17780134	65528530	rs11176451	65535843
rs10506500	65511257	rs1504307	65529862	rs7963639	65537866
rs10506501	65511739	rs1252257	65530815	rs11176454	65538533

Table 286 – LD Block 285 – Chromosome 12					
rs2464269 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17780358	65562220	rs1632370	65566828	rs11176476	65572318
rs12581142	65564409	rs1732647	65567007	rs1875834	65572621
rs1252279	65564522	rs10878519	65570753	rs12580232	65574259
rs17827783	65565107	rs1252272	65571007	rs10784594	65574527
rs2464269	**65565271**	rs11176475	65571458	rs1504316	65574986
rs4913509	65566702	rs1262101	65572035		

Table 287 – LD Block 286 – Chromosome 12					
rs10878985 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11177669	68114948	rs13377945	68115846	**rs10878985**	**68116910**

Table 288 – LD Block 287 – Chromosome 12					
rs1980064 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10879220	69609188	rs12300403	69638134	rs12303957	69650659
rs12582861	69612955	rs1118539	69638811	rs11178519	69653774
rs7965402	69614491	rs1512979	69640143	rs1996079	69657568
rs10879222	69615802	rs11837202	69641143	rs1996080	69657714
rs12321332	69617918	rs1028035	69642114	rs10748165	69658657
rs11178497	69620739	rs12321435	69642211	rs7306752	69659898
rs12427302	69621158	rs10879228	69642244	rs1512990	69663157
rs11178499	69628537	rs12308098	69642445	rs10879232	69663830
rs6581977	69629219	rs1913202	69642606	rs1877530	69664564
rs7300977	69630256	rs7342300	69643345	rs1533238	69666378
rs11612598	69631295	rs1012226	69643806	rs10506619	69668185
rs11178503	69631455	rs7308897	69644403	rs10784885	69673360
rs11178504	69631528	rs12718003	69644414	rs7969795	69673713
rs12310830	69631683	rs11178513	69644793	rs7959895	69674041
rs7970491	69633336	rs11608384	69646557	rs1473847	69674384
rs7970501	69633355	rs2137506	69648967	rs10161508	69675384
rs12304555	69633685	rs11178515	69649265	rs7977747	69675508
rs1877529	69634237	rs11178516	69649319		

Table 289 – LD Block 288 – Chromosome 12					
rs2658728 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11830614	94326918	rs2769436	94329183	rs11833759	94331166
rs17024165	94327086	rs7973850	94329378	rs12828041	94331992
rs12830853	94327185	rs11833092	94330220	rs12828558	94332040
rs2769431	94328089	rs11833126	94330371	rs12828313	94332230
rs2456549	94328322	rs11833183	94330511	rs12309032	94332841
rs7973687	94329087	rs12809883	94330974		

Table 290 – LD Block 289 – Chromosome 12					
rs301016 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs188524	94333794	rs10777695	94342364	rs183978	94347454
rs301016	**94336737**	rs7975291	94345006	rs2769475	94347837
rs301015	94338134	rs9634217	94347362		

Table 291 – LD Block 290 – Chromosome 12					
rs11108663 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4561250	95624304	rs2160542	95657377	rs34484	95674703
rs4762323	95629927	rs17326839	95657868	rs34483	95674744
rs2080481	95632147	rs11108666	95658333	rs1019338	95674833
rs10860071	95634101	rs10860082	95658567	rs1019336	95675208
rs2058800	95635593	rs10860083	95658799	rs994070	95675735
rs2058801	95635889	rs7139219	95659404	rs728280	95676396
rs10860072	95637849	rs7978894	95660349	rs728279	95676672
rs10860073	95638362	rs2193190	95662802	rs10860092	95677065
rs1965032	95638799	rs10860084	95663639	rs17686678	95677344
rs1558980	95639232	rs10777810	95663765	rs10777814	95677604
rs7964955	95641364	rs10777811	95663880	rs7315496	95677955
rs10860074	95641545	rs11108667	95663927	rs7299625	95678057
rs12824633	95647884	rs1421404	95666527	rs7315899	95678270
rs11108658	95648465	rs1421405	95666682	rs7299841	95678450
rs7956478	95649722	rs10860085	95666954	rs11108680	95678615
rs11108660	95649920	rs12368769	95668325	rs11108681	95678728
rs12818731	95649991	rs10507080	95669765	rs4099091	95679334
rs7963861	95651222	rs4144984	95670287	rs4099092	95679346
rs12823085	95652583	rs10860088	95670409	rs12813113	95679489
rs4403845	95652776	rs11108669	95670628	rs12814705	95679586
rs11108661	95652976	rs7304853	95670704	rs4272824	95680168
rs11108662	95653127	rs7958107	95671043	rs7959902	95680310
rs11108663	**95653988**	rs1420649	95671634	rs7960027	95680413
rs11108664	95654309	rs992090	95672049	rs12820022	95680511
rs7315954	95657226	rs34486	95674679	rs10745773	95681358

Table 292 – LD Block 291 – Chromosome 12					
rs11112964 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2279759	105219118	rs10778464	105267480	rs7306326	105326745
rs2279760	105219496	rs11112948	105269325	rs10861598	105328249
rs11112933	105220583	rs17285274	105276005	rs11112977	105329351
rs17217845	105221932	rs4964175	105278114	rs7137445	105330016
rs12370430	105223558	rs7311957	105285313	rs12298876	105330386
rs1532587	105224839	rs11112951	105286206	rs11112979	105330935
rs10861575	105227374	rs10861581	105286452	rs3851631	105331480
rs2253838	105232408	rs2244958	105286895	rs7139139	105331977
rs2250936	105233907	rs7134881	105287143	rs11112980	105332114
rs2264757	105234305	rs7135054	105287398	rs11609315	105332450
rs2465356	105236612	rs11112952	105287858	rs11611176	105332616

Table 292 – LD Block 291 – Chromosome 12					
rs11112964 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2250108	105240179	rs11112953	105288042	rs10778468	105333260
rs17218455	105240571	rs10507211	105288446	rs3851634	105337032
rs17218490	105240661	rs2465355	105289964	rs7303873	105338128
rs2077730	105240870	rs10861583	105290845	rs12305705	105339342
rs12424952	105241354	rs10861587	105296065	rs12312915	105339415
rs2264814	105242043	rs10861588	105296544	rs10861601	105340871
rs2264762	105242531	rs2254755	105297266	rs10778469	105343607
rs2249837	105242842	rs11615682	105303065	rs7136098	105345727
rs12422988	105242867	rs10861590	105303525	rs10861604	105345912
rs7132971	105244485	rs10861591	105303573	rs10778470	105346784
rs2243455	105244986	rs10861592	105303813	rs11112990	105348924
rs7961133	105246020	rs17038414	105304318	rs2141774	105349482
rs11112940	105247320	**rs11112964**	**105305403**	rs2141775	105349570
rs1921952	105248824	rs11112965	105305684	rs10861605	105349877
rs1134577	105248968	rs10861593	105306678	rs10778471	105352455
rs11112943	105250435	rs10861594	105307639	rs11112993	105355413
rs17284674	105251621	rs10778465	105309252	rs10861606	105357946
rs2888888	105252926	rs10861595	105309632	rs6539269	105364751
rs4509864	105258233	rs6539267	105309684	rs7965520	105365267
rs10861577	105260227	rs10778466	105312143	rs10778473	105366891
rs10861578	105263856	rs6539268	105313887	rs10778474	105366919
rs2252929	105264670	rs2264759	105315533	rs12423068	105371742
rs2704900	105265461	rs7134615	105322887	rs10047654	105373166
rs7306012	105266122	rs10861597	105326114	rs10861609	105378155
rs12581936	105378201	rs6539271	105381894	rs17221107	105398906
rs10778475	105378531	rs11113003	105382109	rs11113011	105401931
rs7303737	105378611	rs10778477	105382941	rs10444532	105402159
rs10778476	105379863	rs10778478	105382986	rs4625578	105404856
rs7976305	105380474	rs7969743	105396349	rs2900500	105404966
rs7963213	105380555	rs10861613	105397137		

Table 293 – LD Block 292 – Chromosome 12					
rs2075383 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7137638	105417993	rs7315611	105433973	rs11113025	105440223
rs7137444	105418060	rs11113023	105434863	rs11611533	105440489
rs3851635	105424888	rs12578405	105435562	rs10861617	105441188
rs13561	105427451	rs17038484	105435614	rs7979979	105441289
rs2288266	105427804	rs10861616	105435898	rs7966583	105441310
rs10778483	105431044	rs4522273	105436349	rs7971083	105442205

Table 293 – LD Block 292 – Chromosome 12					
rs2075383 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10861615	105431409	**rs2075383**	**105438453**	rs17038505	105444167
rs10778484	105431433	rs11113024	105439495	rs11113027	105445351

Table 294 – LD Block 293 – Chromosome 12					
rs11066827 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3782458	112847015	rs10774726	112852479	rs12307980	112858477
rs16943403	112847221	rs12228712	112854056	rs7132790	112859450
rs7975774	112847548	rs1473403	112854287	rs4767170	112859513
rs16943405	112847752	rs10850241	112856076	rs12311696	112860175
rs922032	112847914	rs11066823	112856554	rs12298809	112860345
rs12425416	112847930	rs11066824	112856689	rs11066832	112860792
rs16943411	112848892	rs11066825	112856772	rs11066834	112860872
rs16943412	112849064	rs10850248	112857099	rs16943428	112861646
rs12422551	112849732	rs11066826	112857190	rs2290788	112862218
rs10850239	112850979	**rs11066827**	**112857428**	rs2290789	112862260
rs10774725	112852437	rs12307975	112858447	rs2290790	112862268
rs930913	112862475	rs9668748	112871383	rs2290786	112879954
rs2891492	112862531	rs11066844	112872252	rs10850256	112880034
rs930914	112862677	rs2290796	112872362	rs3825212	112881124
rs11066837	112862850	rs2290797	112872543	rs12422364	112881730
rs2061414	112863640	rs3816579	112872684	rs12425050	112881770
rs2384346	112863927	rs11066846	112873127	rs4767174	112882618
rs2290791	112864374	rs11066847	112873435	rs4767175	112882836
rs10850249	112866827	rs10850252	112873529	rs12425509	112883540
rs6489929	112867018	rs10850253	112873625	rs16943516	112885556
rs1466331	112867562	rs1380004	112875147	rs16943519	112886079
rs898081	112867942	rs1380005	112875165	rs11614025	112886264
rs12321179	112868034	rs11066850	112875893	rs7980795	112886950
rs2290792	112868183	rs11066851	112876270	rs16943528	112887965
rs2290794	112868881	rs10774728	112877063	rs12578548	112888077
rs3782460	112869335	rs10850254	112877115	rs2290798	112888526
rs10774727	112870467	rs1037747	112877411	rs16943539	112888720
rs7979675	112870631	rs12230745	112877852	rs2290800	112888766
rs7980086	112870955	rs10850255	112879311	rs2290801	112888807
rs7966348	112871022	rs4767173	112879825	rs7309656	112889642
rs9668746	112871319	rs11066852	112879932		

Table 295 – LD Block 294 – Chromosome 12					
rs10773630 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7299188	128340347	rs1568474	128341967	**rs10773630**	**128342797**
rs12582277	128341731	rs12313148	128342210		

Table 296 – LD Block 295 – Chromosome 12					
rs1513199, rs1513201 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10847960	128893377	rs9943767	128896516	rs12306127	128898431
rs11060586	128895544	**rs1513199**	**128897217**	rs4421782	128898799
rs11060587	128896284	rs4340090	128897717	**rs1513201**	**128900924**

Table 297 – LD Block 296 – Chromosome 12					
rs10847961, rs11060599 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10847961	**128920302**	rs10847963	128927486	rs11060600	128931132
rs2047709	128922645	rs7970000	128928151		
rs11060599	**128926024**	rs7297573	128929851		

Table 298 – LD Block 297 – Chromosome 13					
rs581971 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs581971	**32542398**	rs670657	32547054	rs609945	32550584
rs582524	32542537	rs534184	32547946	rs610922	32550855
rs598413	32543766	rs537008	32548279	rs566514	32551339
rs518125	32544841	rs9536357	32549505	rs667152	32554203
rs476262	32546347	rs594748	32549541		
rs502274	32546859	rs9563133	32549873		

Table 299 – LD Block 298 – Chromosome 13					
rs41438051 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12427910	44321615	rs7334015	44325800		

5

Table 300 – LD Block 299 – Chromosome 13					
rs1932745, rs9597999 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10220135	58827937	**rs1932745**	**58831501**	rs12584255	58838410
rs17056466	58828659	rs12585473	58831953	rs4884334	58839005

Table 300 – LD Block 299 – Chromosome 13					
rs1932745, rs9597999 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11148465	58828804	rs7318040	58832065	rs7330782	58839128
rs9805343	58829359	rs17706633	58833601	**rs9597999**	**58839683**
rs10219927	58829971	rs9597998	58833955	rs1326091	58839798
rs4886159	58830774	rs10454642	58835561	rs1853920	58840169
rs4886160	58831054	rs1409255	58836759		
rs12428489	58831180	rs1409254	58836970		

Table 301 – LD Block 300 – Chromosome 13					
rs7993004 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7338774	68242135	**rs7993004**	**68245902**	rs7983662	68247817
rs12583918	68242293	rs7330514	68246273	rs1507207	68248267
rs7321646	68242952	rs9541540	68246286	rs9541544	68248695
rs4884804	68243167	rs9592565	68246462	rs9529439	68248792
rs9529434	68245034	rs9541542	68247280		
rs9529436	68245188	rs9529437	68247328		

Table 302 – LD Block 301 – Chromosome 13					
rs2810128, rs2265849 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9564865	71492723	rs1824466	71493536		
rs2810121	71493052	rs2810131	71496562		

Table 303 – LD Block 302 – Chromosome 13					
rs11843399, rs11843962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9543431	73171842	rs17090354	73175201	**rs11843962**	**73179408**
rs7982643	73172721	rs17090356	73175252	rs719758	73181132
rs7984233	73172848	rs7333671	73176966		
rs17090353	73175049	rs17090357	73177350		

Table 304 – LD Block 303 – Chromosome 13					
rs9565035, rs9543432 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9573281	73193363	rs7998927	73194614	rs4500604	73199748
rs9565035	**73193466**	rs17090377	73195136	rs2325552	73200250
rs9573282	73193538	rs11841136	73195804	rs2325553	73200591
rs7992083	73193566	rs17090380	73196537	rs9543433	73201038

Table 304 – LD Block 303 – Chromosome 13					
rs9565035, rs9543432 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7992411	73193592	rs2025424	73196867	rs2325554	73201604
rs7992298	73193688	rs2025423	73196890	rs7335667	73202019
rs7992690	73193974	**rs9543432**	**73197016**	rs9318208	73202045
rs17291416	73194141	rs11842989	73198622	rs7983724	73204625
rs7995173	73194410	rs9592939	73198672	rs7328913	73206230

Table 305 – LD Block 304 – Chromosome 13					
rs913698, rs1329338, rs6562962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11618874	76105068	rs2328983	76108594	rs2840253	76112315
rs6562960	76106594	**rs913698**	**76109106**	rs9573901	76112717
rs6562961	76106655	rs9600748	76110570	rs9530576	76113670
rs1329338	**76107912**	**rs6562962**	**76111186**	rs944023	76114578
rs913697	76108282	rs9573900	76111581	rs9544336	76114966

Table 306 – LD Block 305 – Chromosome 13					
rs17078797 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9546941	84397386	rs10507945	84407313	rs9593958	84412625
rs9531676	84397683	rs9546948	84409303	rs4911041	84412940
rs17078797	**84398671**	rs9593956	84410144	rs8001849	84414281
rs4294708	84403995	rs9546952	84410982	rs8002011	84414331
rs8000774	84405208	rs12865607	84411407	rs9575683	84414664
rs9319098	84406285	rs9565982	84412121	rs9575684	84414698
rs9546945	84406708	rs9546953	84412352	rs7322055	84414982

Table 307 – LD Block 306 – Chromosome 13					
rs7988667 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4771947	95885254	rs1327914	95891570	rs732122	95897308
rs4771948	95885893	rs9556594	95892763	rs732121	95897355
rs1177433	95886939	rs9300355	95893155	rs745003	95897366
rs1164591	95887951	rs12866071	95894242	rs1164596	95898682
rs7988667	**95889997**	rs9300357	95895549		
rs4771949	95890270	rs732123	95897048		

Table 308 – LD Block 307 – Chromosome 13					
rs6491307 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1924596	96234840	rs16953570	96236802	rs1924573	96247322
rs16953568	96235876	rs1924597	96238572	rs9582065	96249359
rs11069244	96235945	rs6491306	96243166	rs1924574	96252367
rs6491307	**96252811**	rs9516760	96258974	rs1924575	96261115
rs9582066	96253439	rs9516761	96259068		
rs9516759	96258955	rs4771965	96260231		

Table 309 – LD Block 308 – Chromosome 13					
rs773319 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs496815	104081105	rs7327344	104098834	rs773317	104108811
rs9514301	104084580	rs7327271	104099009	rs9514303	104108931
rs7993399	104085229	rs9514302	104099253	rs1337144	104110978
rs11842043	104085590	rs9519436	104099517	**rs773319**	**104111876**
rs9519431	104085827	rs9300959	104099781	rs9805392	104113334
rs9519432	104086095	rs491695	104100849	rs9519439	104113337
rs9519433	104086231	rs4772637	104100944	rs773322	104114349
rs678073	104087146	rs9519437	104101026	rs773323	104114751
rs501366	104087178	rs612063	104102773	rs811785	104115785
rs11842870	104087537	rs563381	104102792	rs9586587	104115818
rs554759	104088790	rs7332110	104103224	rs773328	104116906
rs615559	104090382	rs3918313	104103833	rs810123	104121974
rs9555082	104090409	rs12427661	104105558	rs773340	104123243
rs10851170	104091358	rs9558375	104107301	rs773341	104123277
rs7321673	104092554	rs9519438	104107530	rs773342	104123653
rs12870903	104094445	rs9586586	104108416		

Table 310 – LD Block 309 – Chromosome 13					
rs4142462, rs672397 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9520491	107010290	rs642832	107014052	rs11619840	107016959
rs11843418	107010613	rs16970678	107014201	rs11617953	107018281
rs672397	**107012050**	rs500147	107014280	rs1033880	107020157
rs4142462	**107012224**	rs11069693	107014569	rs9520493	107020678
rs9555371	107013405	rs4772887	107015645	rs9520495	107022805
rs551103	107013841	rs7990497	107016497	rs9520496	107022841

Table 311 – LD Block 310 – Chromosome 13					
rs4564440 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7320808	107138864	rs8002405	107150456	rs7326004	107155619
rs7139631	107142150	rs3908999	107150852	rs7333105	107156645
rs1417907	107144507	rs3905065	107151941	rs4113422	107158218
rs3905070	107145418	rs3905066	107151958	**rs4564440**	**107162928**
rs1341608	107147650	rs3858800	107152414	rs16970985	107170291

Table 312 – LD Block 311 – Chromosome 13					
rs12875024 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10508187	107191904	rs9301254	107195712	rs1341368	107200505
rs9520568	107192876	rs9301255	107196026	rs1341367	107200518

Table 313 – LD Block 312 – Chromosome 13					
rs1865434 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2289047	109205816	**rs1865434**	**109206609**		
rs2289046	109205907	rs9515119	109207337		

Table 314 – LD Block 313 – Chromosome 13					
rs11164144 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11164144	**111795833**	rs944900	111798898	rs1865993	111801295
rs7326231	111797719	rs944899	111798962	rs2289152	111802399
rs11618666	111797907	rs946127	111799604	rs2873580	111803944

Table 315 – LD Block 314 – Chromosome 14					
rs8007549, rs2144043 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12895898	25699085	rs11848338	25704482	rs1984536	25707028
rs1072264	25700875	rs11848366	25704743		
rs11848333	25704469	**rs2144043**	**25705583**		

5

Table 316 – LD Block 315 – Chromosome 14					
rs7147094 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8010158	38066347	rs2415486	38079337	rs11851568	38089411
rs10498342	38070787	rs1815598	38080059	rs10139532	38091273

Table 316 – LD Block 315 – Chromosome 14					
rs7147094 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2899875	38070895	rs8014127	38080768	rs7160703	38091697
rs10083358	38071749	rs10498343	38083474	rs7144376	38091720
rs8011159	38074822	rs17108156	38085981	rs1986935	38093019
rs1815597	38075200	rs17108159	38087146	rs10146135	38093298
rs2415484	38075823	**rs7147094**	**38087239**	rs17108190	38094808

Table 317 – LD Block 316 – Chromosome 14					
rs1957260, rs17114369, rs1957276 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2415823	43282438	rs1957279	43299590	rs1957256	43317562
rs1957273	43282593	rs1957280	43301819	**rs1957260**	**43320843**
rs17309092	43283940	rs11157363	43303384	rs10136219	43325561
rs11624836	43283985	rs1957251	43303688	rs1951342	43326004
rs8023175	43284694	rs1957252	43303775	rs4584742	43329039
rs10484243	43288034	rs8021931	43305383	rs10484242	43329259
rs1957276	**43289463**	rs11157364	43306266	rs1475454	43330810
rs17114369	**43293805**	rs4595714	43306648	rs17114402	43331423
rs1957277	43294439	rs7158748	43309913	rs10144740	43333291
rs7153793	43295200	rs7493311	43312445	rs17114413	43333402
rs7153123	43295312	rs10872972	43314740	rs11157366	43333424
rs10145559	43298087	rs11157365	43316238	rs11157367	43333539
rs7151029	43298443	rs10150133	43317243		
rs1957278	43299371	rs1957255	43317491		

Table 318 – LD Block 317 – Chromosome 14					
rs7147349 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8005419	62285203	rs1844511	62289473	rs2355733	62293838
rs11158452	62286934	rs1602211	62290263	rs12882073	62294077
rs1873274	62287052	rs2883764	62291868	rs10047827	62294647
rs1844510	62287241	rs2087520	62293270	rs4902186	62295125
rs8018091	62295743	rs12881113	62302733	rs11158453	62307108
rs7147349	**62299841**	rs12436815	62304839		

Table 319 – LD Block 318 – Chromosome 14					
rs11852029 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1485475	82861958	rs162671	82869343	rs162660	82883305
rs162659	82862537	rs162670	82870450	rs17118469	82885826

Table 319 – LD Block 318 – Chromosome 14					
rs11852029 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17118420	82863296	rs162669	82871362	rs10484158	82887125
rs1004538	82863724	rs167963	82871449	rs465673	82887357
rs1004540	82864991	rs162666	82872581	rs115569	82889500
rs17118429	82865717	rs162665	82872865	rs162640	82891560
rs162658	82866042	rs466687	82874095	**rs11852029**	**82892479**
rs17118437	82866348	rs162664	82874561	rs162636	82896260
rs162656	82867499	rs162663	82875420	rs162635	82896729
rs162672	82868674	rs162662	82877371	rs162634	82899049
rs11848052	82869129	rs12892422	82877542		

Table 320 – LD Block 319 – Chromosome 14					
rs12586747 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs17186225	84336165	rs1601028	84341797	rs2046298	84349420
rs2765932	84338344	rs2625342	84342096	rs1872020	84353686
rs11624720	84339391	rs2623117	84344866	rs1351687	84355538
rs17258415	84340993	rs2625343	84344998	**rs12586747**	**84356082**

Table 321 – LD Block 320 – Chromosome 14					
rs17120944 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs8004980	84792413	rs7154639	84793755	rs12435282	84796619
rs12431801	84792645	rs12897361	84794861	rs7151509	84796874
rs12435689	84793012	rs8022603	84795442	rs11850304	84797642
rs17120910	84793115	rs12435059	84796046	rs12894284	84797779
rs17120925	84799811	rs768657	84805667	rs961166	84812111
rs12879855	84800731	rs1867082	84806922	rs10498582	84812374
rs12880832	84801143	rs1449433	84808227	rs10498583	84812687
rs17120930	84801860	rs1449432	84808250	rs12880542	84813640
rs1900922	84802942	rs12434965	84808696	rs8008508	84813757
rs17120944	**84803077**	rs12435574	84809001	rs8008671	84813810
rs17796669	84803695	rs17796693	84809814	rs11847747	84815717
rs7160419	84803799	rs2053514	84810179		
rs17120952	84804443	rs1375575	84810248		

Table 322 – LD Block 321 – Chromosome 14					
rs8009268, rs927604, rs10220600, rs11159731 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs1951814	85278422	rs1957787	85289964	rs10142223	85302797

Table 322 – LD Block 321 – Chromosome 14					
rs8009268, rs927604, rs10220600, rs11159731 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7155204	85278692	rs17657234	85290623	rs2224796	85303112
rs7153910	85278706	rs12879941	85290683	**rs10220600**	**85304433**
rs958784	85279281	rs12882875	85290852	rs8003269	85306119
rs958783	85279746	**rs8009268**	**85291479**	**rs11159731**	**85308028**
rs12050395	85280257	rs1998531	85291608	rs1957807	85312721
rs2888455	85283708	rs17730580	85291664	rs8015401	85313667
rs11848436	85284994	rs8018290	85296156	rs8005806	85315231
rs8005113	85285556	rs8017097	85296183	rs17121657	85317329
rs1041004	85286746	rs8017763	85296534	rs10140584	85318324
rs1957791	85286869	rs11620923	85297550	rs1951822	85318732
rs6574843	85287156	rs8015729	85299477	rs8007856	85318870
rs7154485	85287235	rs1951823	85299696	rs2209132	85319648
rs2014877	85287679	rs8009056	85299871	rs17736583	85321268
rs12898104	85288299	rs6574844	85300540	rs11626495	85321564
rs12897255	85288372	rs2373049	85300962	rs11626547	85321700
rs11621357	85288736	rs912318	85301195	rs8020386	85322749
rs1957790	85289232	**rs927604**	**85302214**	rs1957805	85323183
rs1957789	85289520	rs10438187	85302641	rs10150656	85323560
rs11626429	85289583	rs2209133	85302692	rs10142730	85324169
rs1957788	85289917	rs12588896	85302759	rs1951821	85325260
rs1957803	85325394	rs7159326	85332079	rs12886728	85334023
rs12890980	85325794	rs8021326	85332450	rs17658144	85334528
rs8003666	85327292	rs12434216	85332650	rs11851223	85335323
rs11159732	85327564	rs1886080	85333285	rs17658232	85335753
rs7150656	85328771	rs1886079	85333354	rs6574846	85336197
rs1951820	85329268	rs984548	85333485	rs1022850	85336600

Table 323 – LD Block 322 – Chromosome 15					
rs7164126, rs41472644, rs7177662 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8038900	61966461	rs6494447	61968829	rs6494449	61971415
rs4238462	61966935	**rs7164126**	**61969444**	**rs7177662**	**61971678**
rs1867272	61968523	rs1443416	61970578		

Table 324 – LD Block 323 – Chromosome 15					
rs1470003 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1470003	**65256389**	rs1470002	65256622	rs3784681	65259239

Table 325 – LD Block 324 – Chromosome 15					
rs907553 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7181395	68456257	**rs907553**	**68457586**		
rs12910190	68457340	rs907552	68457742		

Table 326 – LD Block 325 – Chromosome 15					
rs1027549 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1027548	85589179	rs12440383	85589835	rs12437512	85590161
rs1027549	**85589476**	rs12440200	85589927	rs12438209	85590488

Table 327 – LD Block 326 – Chromosome 15					
rs8040262 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7165723	95309410	rs7183675	95312066	rs11073513	95316302
rs9635396	95309808	rs7161896	95312351	rs11073514	95316688
rs11073511	95309822	rs10852058	95312409		

Table 328 – LD Block 327 – Chromosome 16					
rs11077108 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11077106	6898849	rs11077107	6899804	rs8056547	6900777
rs8046151	6899468	**rs11077108**	**6900674**	rs8048076	6901785
rs6500870	6899490	rs8057643	6900691	rs11647023	6903771

Table 329 – LD Block 328 – Chromosome 16					
rs6498692, rs11861905 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4564548	17352536	rs12917792	17354785	**rs6498692**	**17356398**
rs4781994	17353654	rs7500021	17355108	rs6498693	17356570
rs4781992	17353804	rs6498691	17355353	rs6498694	17356723
rs11861905	**17353902**	rs4781989	17356327		

5

Table 330 – LD Block 329 – Chromosome 16					
rs17811655 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4788423	23926364	rs6497712	23927209	rs12599729	23929122
rs6497711	23926650	rs9934832	23927375	rs8058691	23930943
rs8055243	23926713	rs9924324	23927752		

Table 331 – LD Block 330 – Chromosome 16					
rs17199641 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9931891	25287823	rs17794794	25296688	rs8046021	25300065
rs11647618	25289313	rs7198142	25298175	rs9928337	25304001
rs7200095	25295160	rs7187099	25299514	rs11639561	25306278
rs1160065	25309273	rs4490006	25340264	rs6497855	25346848
rs6497848	25311479	rs2214025	25340500	rs7195628	25346930
rs725630	25312793	rs2157856	25340630	rs2345547	25347077
rs8050841	25314941	rs2014139	25340664	rs8059469	25347539
rs996157	25321296	rs11074687	25341393	rs8061030	25347686
rs996156	25321553	rs8055437	25341621	rs9931257	25348863
rs6497849	25324697	rs12931641	25343042	rs8045113	25348886
rs4787720	25328462	rs2018465	25345589	rs8050267	25349396
rs17794824	25330445	rs9925127	25346384	rs4787724	25349585
rs7193720	25330731	rs6497852	25346572	rs7191795	25349647
rs1013534	25333703	rs10492801	25346611		
rs17199690	25339656	rs6497853	25346654		

Table 332 – LD Block 331 – Chromosome 16					
rs3976455 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1045968	29733866	rs9938630	29744609	rs4787480	29764817
rs10204	29734039	rs4788187	29753186	rs7201519	29767478
rs8058824	29736211	rs13331733	29755918	rs3815822	29779862
rs1057451	29740989	rs13332078	29758206	rs747973	29782742
rs1057452	29741215	rs3815824	29760361		

Table 333 – LD Block 332 – Chromosome 16					
rs7203181 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12931934	52536321	rs7206337	52538098	rs7202360	52540292
rs16952662	52536347	rs12919344	52538175	**rs7203181**	**52540981**
rs16952663	52536601	rs9924877	52538922	rs12925189	52542774
rs11862232	52536841	rs7197239	52540250		

Table 334 – LD Block 333 – Chromosome 16					
rs1423881 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8061506	59364488	rs4619387	59386255	rs1364324	59401731

Table 334 – LD Block 333 – Chromosome 16					
rs1423881 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12595877	59364876	rs12934303	59387348	rs763591	59401944
rs985975	59370002	rs12600223	59387696	rs715181	59402209
rs8057223	59372520	rs7187631	59388123	rs16962597	59402685
rs11076414	59375876	rs7201354	59390566	rs10500433	59402994
rs11076415	59375958	rs12102693	59393763	rs6500150	59403751
rs17822187	59376931	rs11076417	59393851	rs7188381	59404560
rs9940736	59378084	rs9940345	59394414	rs1424207	59406406
rs11859902	59379216	rs11076418	59394511	rs11076420	59407222
rs8046125	59379618	rs11644586	59394562	rs1424208	59407344
rs16962587	59380592	rs1157841	59394803	rs11076421	59407457
rs11643452	59380855	rs984336	59395775	rs8054868	59407657
rs11648576	59381295	rs7199829	59396816	rs16962610	59409411
rs10500431	59381622	rs1593152	59398521	rs2042388	59410706
rs7188142	59382187	rs11647527	59398896	rs10500434	59412626
rs1424205	59383528	**rs1423881**	**59400646**	rs1424209	59415371
rs715262	59384147	rs768275	59400989		
rs9302727	59384358	rs2161662	59401492		

Table 335 – LD Block 334 – Chromosome 16					
rs1369930 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1836869	62623581	rs16966896	62627419	rs12447881	62637849
rs16966881	62624456	rs16966899	62630101	rs16966908	62638536
rs1369930	**62624585**	rs12444627	62630359	rs12708858	62639314
rs1369929	62624839	rs12444705	62630719	rs2164512	62639947
rs1836868	62625490	rs17395772	62632343	rs1865828	62640452
rs16966889	62625505	rs7499402	62633197	rs2319719	62640638
rs724051	62626233	rs17474196	62633247		

Table 336 – LD Block 335 – Chromosome 16					
rs7197835 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4081995	81271375	rs16958212	81273163	rs8048202	81273739
rs7197835	**81272197**	rs16958216	81273222		

Table 337 – LD Block 336 – Chromosome 17					
rs8077563 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11650518	12978075	rs8077659	12982996	rs6502238	12983565

Table 337 – LD Block 336 – Chromosome 17					
rs8077563 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs764191	12980517	**rs8077563**	**12983090**		

Table 338 – LD Block 337 – Chromosome 17					
rs317338 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9894728	29253689	rs371631	29259978	**rs317338**	**29262573**
rs4795837	29256668	rs444953	29260164		
rs317350	29257634	rs7226064	29261371		

Table 339 – LD Block 338 – Chromosome 17					
rs6505030 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8064718	51503773	rs6505031	51504448	rs6505033	51505020
rs8070364	51503884	rs6505032	51504615		
rs6505030	**51504398**	rs7214018	51504668		

Table 340 – LD Block 339 – Chromosome 17					
rs8078180 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9911286	51530416	rs1431325	51536406	rs994421	51539097
rs9303382	51532820	rs1864648	51536717	**rs8078180**	**51539114**
rs9894332	51532981	rs1431323	51537493	rs8077081	51539478
rs17759236	51534381	rs1346924	51538209	rs10852980	51540014
rs11656623	51534561	rs8077153	51538251	rs17819919	51540840
rs919599	51535942	rs2217507	51538866	rs1431322	51541838
rs8066021	51542070	rs8067691	51545385	rs1431318	51547522
rs8065460	51542082	rs1431320	51545957	rs768794	51548399
rs17212886	51542495	rs1431319	51546017	rs11079211	51550697
rs1367692	51543175	rs17212907	51546539	rs11079212	51550728

Table 341 – LD Block 340 – Chromosome 17					
rs11079581, rs9635739, rs12952646, rs8182293 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs917056	61095578	rs232109	61109199	rs232135	61121381
rs17693745	61096018	rs232110	61109297	rs232136	61122640
rs12601531	61097059	**rs11079581**	**61111564**	rs232138	61124295
rs11079580	61097430	rs232118	61113688	rs232141	61126035
rs12051717	61098613	rs232121	61114250	rs232142	61126154

Table 341 – LD Block 340 – Chromosome 17					
rs11079581, rs9635739, rs12952646, rs8182293 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7212230	61102143	rs11079582	61115636	rs232146	61128990
rs4293413	61104151	rs11079583	61116654	**rs8182293**	**61131252**
rs232101	61105175	rs232126	61118255	rs232150	61131964
rs232102	61105921	rs232127	61118450	rs232156	61137030
rs232103	61106152	**rs12952646**	**61119267**	rs11868651	61137490
rs232104	61106259	rs232131	61120134		
rs9635739	**61106612**	rs232132	61120331		

Table 342 – LD Block 341 – Chromosome 17					
rs16960369 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8078186	62323554	rs1995695	62327194	rs4791014	62330904
rs8064360	62324021	rs1605443	62327398	rs9894843	62330971
rs11870351	62324655	rs1605444	62327417	rs9896901	62331030
rs740806	62326010	rs12948891	62327992	rs12953208	62331836
rs735179	62326173	rs12948693	62328084	rs9916665	62331980
rs4791015	62326597	rs12450771	62329131	rs12602753	62332794
rs11649968	62326760	rs12453324	62329360	rs9892197	62335848
rs16960369	**62326942**	rs11652930	62329397		
rs11650160	62327057	rs11653993	62329820		

Table 343 – LD Block 342 – Chromosome 17					
rs7208724 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7208724	**74694916**	rs2703520	74695657		

Table 344 – LD Block 343 – Chromosome 17					
rs12948255 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4493093	75489976	rs1285276	75493058	rs745603	75493537
rs12948255	**75490957**	rs1285277	75493127		

Table 345 – LD Block 344 – Chromosome 18					
rs764359 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs587300	18336926	**rs764359**	**18351907**	rs476382	18358980
rs581098	18338350	rs764358	18351955	rs499601	18359185
rs473410	18338632	rs474529	18352228	rs16968266	18359304

Table 345 – LD Block 344 – Chromosome 18					
rs764359 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs473518	18338672	rs148648	18352372	rs615620	18360087
rs178003	18338754	rs16968167	18354064	rs178011	18360195
rs178004	18338815	rs538072	18354524	rs604516	18360307
rs7238995	18339101	rs4533389	18354671	rs178013	18361520
rs500487	18339284	rs4239428	18355031	rs178014	18362154
rs480637	18342302	rs10153387	18355268	rs638121	18362498
rs4525599	18343221	rs178009	18355318	rs519254	18373649
rs577727	18344565	rs4239429	18355566	rs577725	18375382
rs511043	18349825	rs2110136	18355664	rs9960559	18379689
rs602874	18350096	rs528619	18356075	rs515674	18379848
rs528181	18350593	rs534144	18356663	rs518217	18380080
rs12958298	18351412	rs554133	18357752	rs542228	18380432
rs567854	18351446	rs554856	18357786	rs16968441	18381296
rs568969	18351610	rs555870	18357939	rs11872876	18382880

Table 346 – LD Block 345 – Chromosome 18					
rs10502662 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11659804	32381381	rs13381428	32384351	rs9958510	32390130
rs11873322	32394649	rs12956471	32395544	rs11661849	32401293
rs12605016	32394859	**rs10502662**	**32397429**	rs1565978	32402506
rs12955561	32395127	rs10502663	32398137	rs1565979	32402579
rs869389	32395487	rs9951261	32400382		

Table 347 – LD Block 346 – Chromosome 18					
rs1786793 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1941946	33246552	rs2040305	33251127	rs1786825	33256723
rs1791479	33246652	rs1941945	33254085	rs16968931	33258803
rs17569373	33247837	rs1557346	33254780	rs1791481	33259093
rs1786821	33248312	rs7234088	33255398	rs10048364	33259479
rs4799448	33249086	rs731890	33256116	**rs1786793**	**33261753**
rs11875702	33249230	rs11661173	33256263	rs11659413	33261860
rs948528	33249690	rs1786788	33256448	rs8089892	33262821

Table 348 – LD Block 347 – Chromosome 18					
rs11875624 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs873902	41424978	rs16978420	41426010	rs1791152	41431536

Table 348 – LD Block 347 – Chromosome 18					
rs11875624 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11660138	41425990	rs959246	41430334	rs1682394	41432020

Table 349 – LD Block 348 – Chromosome 18					
rs3809962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12457104	42587877	**rs3809962**	**42592243**	rs8087201	42596473
rs4449041	42588494	rs3889927	42593925	rs4121690	42598850
rs16940040	42588724	rs3897629	42594084	rs17707448	42600222
rs17707032	42589145	rs17707231	42595574	rs9954755	42602188
rs17779820	42589722	rs8085750	42596223		

Table 350 – LD Block 349 – Chromosome 18					
rs12958504 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12958504	**45332827**	rs3829631	45341132	rs2097055	45349485
rs12962061	45332909	rs2000813	45347862		

Table 351 – LD Block 350 – Chromosome 18					
rs1432396, rs2082347 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1786870	47276929	rs1631102	47291590	rs7231303	47317269
rs12969161	47277354	**rs2082347**	**47292109**	rs17813320	47317501
rs17665591	47277427	rs4939668	47294965	rs9675490	47317615
rs4940084	47277916	rs8092309	47297348	rs9958875	47317789
rs4940085	47277998	rs4940089	47297592	rs4940091	47318105
rs1786871	47278575	rs1432397	47302349	rs4940092	47318363
rs8091159	47279620	**rs1432396**	**47302450**	rs9960772	47321491
rs8091220	47279839	rs1786893	47305069	rs4539703	47322743
rs11874291	47280291	rs6508072	47305694	rs11082881	47322854
rs9945544	47281404	rs1835857	47306176	rs9967040	47323109
rs17738237	47282063	rs2848694	47306201	rs8085487	47323999
rs12958620	47282363	rs16953485	47306688	rs9958249	47324486
rs12963818	47283465	rs1893385	47307588	rs7244329	47325052
rs12964321	47283553	rs1893386	47307671	rs11872134	47325853
rs12964344	47283595	rs1656752	47307880	rs8086681	47326091
rs1656766	47284533	rs11872608	47308436	rs4940094	47326799
rs11661355	47285499	rs12454411	47308537	rs4939671	47327044
rs12453987	47286419	rs12965517	47315765		
rs9957078	47289919	rs9955287	47316500		

Table 352 – LD Block 351 – Chromosome 18					
rs2195850 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs9959607	47335260	rs919703	47339726	rs4940098	47349953
rs10853606	47335793	rs4940097	47341843	rs4940099	47350192
rs1560607	47338653	rs17665901	47344665	rs1432406	47356387
rs1432400	47339470	rs8098233	47346035	rs11660144	47356830
rs12455421	47357836	rs1432405	47361857	rs728684	47363145
rs12455968	47358092	rs12458811	47362289	rs1368153	47363691
rs7229367	47359866	rs728683	47362995	rs1025450	47363892

Table 353 – LD Block 352 – Chromosome 18					
rs7242423 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs7239496	48440823	rs4556886	48441980	**rs7242423**	**48445999**
rs768203	48441841	rs11082933	48442518	rs4940203	48446394
rs768204	48441871	rs4387680	48443406		

Table 354 – LD Block 353 – Chromosome 18					
rs4510110, rs8099483 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs12956855	50917163	rs3924833	50931382	rs4801141	50952900
rs7350988	50918407	**rs4510110**	**50931907**	rs10502994	50953513
rs12963231	50918975	rs4801135	50934136	rs8091235	50956733
rs4369755	50919112	rs9961237	50934641	rs734978	50960095
rs12458452	50920413	rs4239469	50936230	rs4800982	50960401
rs9958798	50920635	rs12967831	50936352	rs729053	50960679
rs8083662	50921318	rs4239470	50937610	rs1893513	50961310
rs11664203	50929829	rs8088293	50938031	**rs8099483**	**50963239**
rs11152218	50930891	rs4239472	50942044	rs4800983	50966235
rs3924832	50931075	rs4332822	50947051		

Table 355 – LD Block 354 – Chromosome 18					
rs9953026, rs1261112 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs2156052	51026482	rs1261080	51033049	rs1787792	51037635
rs9953026	**51028264**	rs7243591	51033799	rs1261087	51039688
rs1261082	51028427	**rs1261112**	**51035051**	rs1261086	51039823
rs1942261	51028683	rs1015243	51035572	rs1261085	51040965
rs8086892	51029530	rs1788014	51037434	rs1261084	51041158

Table 355 – LD Block 354 – Chromosome 18					
rs9953026, rs1261112 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1261081	51031544	rs11665032	51037609	rs2276195	51047507

Table 356 – LD Block 355 – Chromosome 18					
rs41515848 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1261073	51058818	rs1942264	51071086	rs1788027	51093825
rs13381800	51062700	rs1261093	51071948	rs1799405	51095023
rs1942265	51066565	rs1539950	51072604	rs1787251	51099634
rs7241077	51066704	rs1539951	51072671	rs1261117	51100655
rs1893431	51069498	rs1261134	51082761	rs1261118	51100768
rs1893430	51069715	rs1261114	51089367		
rs4800988	51070904	rs1261115	51091526		

Table 357 – LD Block 356 – Chromosome 18					
rs17594526 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1348047	51201056	rs7235757	51218952	rs2958166	51238630
rs1788019	51201521	rs2958178	51220970	rs12103957	51240076
rs9950000	51203167	rs2958171	51223830	rs2958169	51240136
rs9958125	51204583	rs2958175	51225956	rs11877936	51242410
rs9320010	51204895	rs10503001	51226694	rs4374254	51243545
rs3794891	51206210	rs17089789	51227330	rs8096211	51245567
rs12607679	51210746	rs2958186	51228793	rs7227418	51246419
rs3794889	51212935	rs2958162	51234863	rs9320016	51246469
rs4801149	51214227	rs2919451	51235298	rs4524013	51247706
rs12605773	51215421	rs2919450	51235543	rs8086206	51248156
rs2872041	51215489	rs17089803	51236165	rs4500831	51248542
rs4801150	51216108	rs2958163	51236410	rs12967143	51250010
rs17089778	51216340	rs11873788	51236505	rs4468713	51255017
rs1020169	51217077	rs1440477	51237453		

Table 358 – LD Block 357 – Chromosome 18					
rs1364417 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1424406	51837176	rs1820286	51838039	rs1017252	51840017
rs7242244	51837304	rs1946300	51838991	rs1424407	51840200
rs1541713	51837422	rs1017250	51839581	rs1017253	51843614
rs1820285	51838009	rs1017251	51839898	rs1017254	51843694
rs2646965	51843964	**rs1364417**	**51844947**	**rs1364417**	**51844947**

Table 358 – LD Block 357 – Chromosome 18					
rs1364417 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1364416	51844610	rs1364418	51845042	rs1364418	51845042

Table 359 – LD Block 358 – Chromosome 18					
rs17239149 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4891401	66220591	rs17239183	66221859		

Table 360 – LD Block 359 – Chromosome 18					
rs1905558 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9319854	68642565	rs7231566	68644986	**rs1905558**	**68646158**
rs6566663	68644667	rs7232464	68645022	rs7227716	68647614
rs1893459	68644727	rs7236812	68645348	rs2000728	68647991

Table 361 – LD Block 360 – Chromosome 19					
rs1895364 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10410169	8908267	rs12461007	8910149	rs10410136	8917941
rs10415818	8908305	rs11883220	8910339	rs4804381	8917989
rs10417358	8909035	rs10425044	8910396	**rs1895364**	**8918687**
rs10417600	8909170	rs7507380	8913236	rs2216662	8918721
rs10854118	8909342	rs7507547	8914382		
rs2012761	8909895	rs918535	8917930		

Table 362 – LD Block 361 – Chromosome 19					
rs4808358 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4807969	15642200	**rs4808358**	**15642246**		

5

Table 363 – LD Block 362 – Chromosome 19					
rs4807982, rs4808375, rs4808376 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16980800	15706047	rs10408795	15717575	rs3764557	15731246
rs12984739	15707365	rs2079234	15718510	**rs4807982**	**15732215**
rs10426579	15707723	rs1859355	15718958	rs1347180	15733036
rs1960221	15709405	rs2040811	15719720	rs1433125	15733881
rs16980806	15709732	rs10411457	15719919	rs4807984	15736136

Table 363 – LD Block 362 – Chromosome 19					
rs4807982, rs4808375, rs4808376 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs990521	15710683	rs2040813	15720253	rs4808374	15737031
rs10518249	15712143	rs7255637	15720513	rs1821301	15740895
rs10518250	15712229	rs10518252	15720629	rs3829662	15741906
rs10518251	15712261	rs10518253	15720712	rs8112713	15742751
rs11673284	15712361	rs12984671	15721726	rs12982309	15744472
rs4808373	15712972	rs11666521	15722672	**rs4808375**	**15745273**
rs1966357	15713223	rs10414576	15723447	**rs4808376**	**15745417**
rs11670007	15713363	rs10413997	15723536	rs10425657	15746568
rs11670326	15713544	rs7257304	15724023	rs10426753	15747084
rs2240228	15713872	rs11085984	15724230	rs1465708	15747542
rs2240229	15714080	rs2365547	15724879	rs1965765	15747565
rs2097821	15715303	rs11085985	15725527	rs919811	15749101
rs985900	15715462	rs2214575	15727492	rs12972874	15755285
rs1029501	15715713	rs11882010	15728616		
rs7246364	15717132	rs7248867	15731204		

Table 364 – LD Block 363 – Chromosome 19					
rs11668530 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3752135	56692436	rs6509544	56695143	rs3810114	56698163
rs3829658	56692484	rs3810110	56696555	rs7255948	56698375
rs2864097	56692716	rs2034891	56696559	rs8113414	56699289
rs11668530	**56693297**	rs16982743	56696715	rs8102707	56700566
rs16982740	56693922	rs1551555	56697146	rs11084083	56701372
rs2009362	56694541	rs1551556	56697481	rs7252810	56701588
rs10420457	56694901	rs1551557	56697492		

Table 365 – LD Block 364 – Chromosome 19					
rs16986294, rs16986289, rs6509927, rs6509930 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6509927	**60370037**	rs3859540	60373858	**rs16986294**	**60374789**
rs6509930	**60372284**	rs3859542	60374195		
rs7248997	60372558	**rs16986289**	**60374715**		

Table 366 – LD Block 365 – Chromosome 20					
rs6118168, rs2144151, rs6118169 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2144151	**831644**	rs6108134	832841	rs2077972	834546
rs6133576	832070	**rs6118168**	**834002**		

Table 366 – LD Block 365 – Chromosome 20					
rs6118168, rs2144151, rs6118169 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6077347	832132	**rs6118169**	**834050**		

Table 367 – LD Block 366 – Chromosome 20					
rs11908536 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs418062	5003138	rs6038063	5017133	rs5023819	5023381
rs6053082	5004899	rs6053099	5017714	rs735204	5023777
rs2326588	5006061	rs1550700	5019542	rs734977	5024575
rs6084985	5006791	rs6038067	5020721	rs911110	5024663
rs6084986	5007269	rs1550701	5020844	rs6053108	5025077
rs1407011	5009789	rs6038069	5021837	rs6076775	5025414
rs4142245	5015930	rs6139621	5022421	rs2715	5029049

Table 368 – LD Block 367 – Chromosome 20					
rs16995365 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6056184	8755624	rs6086617	8758585	rs6516411	8761544
rs6077427	8755796	rs11906587	8759482	rs6118346	8763580
rs6077428	8756294	rs11905228	8759640	rs6039298	8764030
rs10485727	8756835	rs6118338	8760751	rs6056198	8764218
rs2143267	8757225	rs6118339	8760825	rs6077434	8765665
rs6039293	8757449	rs6118340	8760948	rs6140742	8767112
rs724110	8758049	rs7271034	8761339	rs2179475	8768280
rs2876145	8758198	rs6516410	8761509	rs7271421	8769100
rs6140744	8769334	rs4816097	8781373	rs6086662	8792694
rs6140752	8770308	rs4816098	8781905	rs6108204	8793050
rs12624809	8770431	rs6140770	8782750	rs6086663	8793067
rs6140753	8770723	rs2327116	8782971	rs8121979	8793200
rs6086632	8770931	rs6118356	8784524	rs6108205	8793372
rs6086633	8771064	rs6056209	8784771	rs6086664	8793519
rs6118350	8771137	rs6039306	8785336	rs6516415	8794006
rs6133627	8772009	rs4426594	8785407	rs6118362	8794238
rs6140755	8772117	rs6039307	8785999	rs6140780	8794337
rs6086635	8772322	rs6086652	8786220	rs8182972	8794489
rs11087826	8772717	rs6086654	8786376	rs6140781	8794925
rs6086637	8772865	rs11087827	8787222	rs7272486	8795143
rs6140764	8774360	rs17380559	8787269	rs6086672	8795414
rs6140765	8775814	rs13041928	8787408	rs6077445	8796529
rs6086642	8775973	rs6077443	8787602	rs6056216	8796677

Table 368 – LD Block 367 – Chromosome 20					
rs16995365 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2876146	8777046	rs6140774	8787757	rs3915507	8796688
rs6118352	8777438	rs6133635	8788154	rs3848829	8796724
rs3902337	8777845	rs6086657	8788293	rs3848830	8796994
rs3902336	8777914	rs4813874	8788670	rs6118364	8798286
rs6039302	8779137	rs2066884	8789005	rs4083408	8798563
rs6056206	8779211	rs2327117	8789105	rs3848831	8799321
rs6039303	8779253	rs2327118	8789183	rs2327120	8799760
rs4816093	8779744	rs6086658	8789633	rs4380320	8799842
rs6086647	8780767	rs17465513	8791236	rs6077449	8800061
rs4816094	8781132	rs6086660	8791256	rs6086676	8800297
rs4816095	8781198	rs6086661	8791306	rs4502502	8800328
rs4816096	8781231	rs6140779	8791845	rs6056218	8800489

Table 369 – LD Block 368 – Chromosome 20					
rs16981268 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11698503	19800585	rs13038803	19802617	rs6081788	19805579
rs11087292	19802067	rs6075586	19803294	rs6136866	19806681
rs12481305	19802409	rs11087293	19804460	rs6046400	19807126
rs4814916	19808170	rs2145552	19810248	rs7273995	19813344
rs6035467	19808246	rs13037030	19810847		
rs4814918	19809692	rs6046403	19810973		

Table 370 – LD Block 369 – Chromosome 20					
rs6106149 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6046410	19814372	rs6046412	19816975	rs6046425	19819725
rs6136870	19814572	rs6046415	19817093	rs6046426	19819755
rs6132239	19815042	**rs6106149**	**19817540**	rs6046432	19820900
rs6132240	19816576	rs2208448	19817985	rs911379	19821822
rs6136873	19816798	rs1056293	19818852		
rs6136874	19816883	rs6035468	19819586		

Table 371 – LD Block 370 – Chromosome 20					
rs6126248 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4811184	49558078	rs3787187	49565569	rs6021267	49574507
rs6096453	49562023	rs2273642	49566496	rs6021268	49574548
rs6021262	49562405	rs6021264	49568090	rs6021270	49574671

Table 371 – LD Block 370 – Chromosome 20					
rs6126248 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6067801	49563942	rs6067805	49568498	rs6063664	49575231
rs12481623	49564272	rs4811187	49570011	**rs6126248**	**49575619**
rs11086343	49565085	rs4811188	49570506	rs6067808	49575931
rs11696516	49565223	rs6063661	49571580	rs6126249	49576030
rs6067803	49565406	rs6021266	49572654	rs6067809	49576330
rs6067804	49565471	rs6067807	49574300	rs6067811	49578746

Table 372 – LD Block 371 – Chromosome 20					
rs6024198 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs11696256	53558791	rs7269159	53559230	rs6014412	53559547
rs7261265	53559022	rs7261435	53559353	rs11696824	53559561
rs7269115	53559176	rs11696393	53559366	rs11696973	53559916
rs2068818	53561113	rs6069311	53564475	rs6098648	53566493
rs6024193	53562406	rs6024196	53564924	rs6024199	53566995
rs11697750	53562499	rs6014417	53565039	rs11086504	53567814
rs11699745	53562607	rs17302134	53565255	rs6098654	53568283
rs11699702	53562687	rs17302162	53565401	rs6014418	53568563
rs10485777	53562797	**rs6024198**	**53565751**	rs6024206	53569048
rs6014415	53564062	rs6098647	53566329	rs6069323	53572616

Table 373 – LD Block 372 – Chromosome 20					
rs271951 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs6026884	57445509	rs6070802	57446137	**rs271951**	**57446795**
rs271950	57446052	rs156248	57446665	rs6026886	57446839

Table 374 – LD Block 373 – Chromosome 20					
rs13042233 LD Block SNPs					
SNP ID (rs)	**Base Position**	**SNP ID (rs)**	**Base Position**	**SNP ID (rs)**	**Base Position**
rs4925199	59825411	rs1418794	59828747	rs12626030	59845061
rs4925300	59825433	rs13040020	59829477	rs13040696	59845586
rs13040920	59826056	rs6061845	59832199	rs2386936	59849774
rs13042233	**59826114**	rs6061846	59832215	rs1891572	59852651
rs13042362	59826136	rs6121814	59835673	rs17811544	59854564
rs7261579	59827625	rs6061364	59839966		
rs1418795	59827942	rs6061366	59843196		

Table 375 – LD Block 374 – Chromosome 21					
rs2822962 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2822961	15146679	**rs2822962**	**15149009**	rs2822963	15149921
rs1883003	15147347	rs2223163	15149849	rs2822964	15151796

Table 376 – LD Block 375 – Chromosome 21					
rs2837590 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2837586	40664981	rs2837588	40669929	rs11910278	40673510
rs1980406	40665509	rs2837589	40669967	rs2837592	40675985
rs11911056	40666164	**rs2837590**	**40671416**	rs2837594	40676461
rs2837587	40666871	rs2837591	40672305	rs2837596	40677279

Table 377 – LD Block 376 – Chromosome 22					
rs867128, rs6518834 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2267259	32407092	**rs867128**	**32414846**	rs240075	32418176
rs2267260	32407196	rs240070	32415088	**rs6518834**	**32419182**
rs5999058	32409989	rs240071	32415462	rs6518835	32419260
rs2267261	32410132	rs2016485	32416416	rs6518836	32419348
rs4821175	32413987	rs240073	32416494		
rs5999059	32414086	rs240074	32417063		

Table 378 – LD Block 377 – Chromosome 1					
rs2273298 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6673887	10116408	rs6696978	10132144	rs6667049	10144434
rs6671289	10118527	rs2273298	10140964	rs17034560	10151745
rs6685910	10118557	rs2273299	10141026	rs12092513	10154050
rs12070814	10123161	rs6659436	10141789		

Table 379 – LD Block 378 – Chromosome 1					
rs7418410 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6541080	10158626	rs7418410	10158989		

5

Table 380 – LD Block 379 – Chromosome 1					
rs380149 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11803240	25267796	rs10903024	25269936	rs6600255	25270761
rs11248978	25267976	rs450158	25270361	rs402634	25270793
rs380149	25268346	rs4568778	25270554	rs17257009	25271275
rs12126466	25268466	rs7534992	25270680	rs7538146	25271676
rs365865	25269420	rs7548291	25270726		

Table 381 – LD Block 380 – Chromosome 1					
rs17123306 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11207949	62505009	rs17123306	62506677	rs2666503	62509359
rs11579934	62505533				

Table 382 – LD Block 381 – Chromosome 1					
rs17097241 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs699254	66713296	rs783438	66717378	rs2312191	66725533
rs783323	66713368	rs12022280	66717433	rs7544017	66725602
rs699253	66713736	rs783437	66717570	rs4567260	66726070
rs699252	66713788	rs12118088	66717776	rs1338193	66726347
rs783322	66714218	rs783436	66717863	rs12026828	66726937
rs7553071	66714280	rs814146	66717946	rs11208877	66727512
rs12140300	66714370	rs6677697	66718629	rs17471563	66727613
rs699250	66714920	rs6701906	66718639	rs12024390	66727768
rs699249	66714946	rs11208871	66718882	rs12739235	66728087
rs12027325	66715244	rs11581408	66719178	rs17128965	66728179
rs783317	66715975	rs17097241	66725349	rs17128967	66728220
rs6694790	66716369	rs7544005	66725455		

Table 383 – LD Block 382 – Chromosome 1					
rs12058557 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11576549	69121133	rs9629020	69160411	rs1396022	69194414
rs12058557	69121376	rs9629013	69161493	rs1507858	69195268
rs4326670	69123793	rs12061060	69161539	rs12087596	69196003
rs4344368	69124888	rs9803974	69173020	rs4649904	69196313
rs9436417	69127330	rs6690346	69175045	rs1507855	69196925
rs6588341	69128860	rs11801267	69175833	rs9436866	69200164
rs11801756	69130744	rs11578193	69178631	rs7547769	69201135
rs11803723	69131597	rs12740061	69180398	rs12079859	69203320

Table 383 – LD Block 382 – Chromosome 1					
rs12058557 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4617455	69135870	rs4317857	69181166	rs9436423	69203738
rs11806894	69138659	rs11209370	69183683	rs12030971	69203851
rs11582908	69139997	rs4133314	69184794	rs13375469	69203950
rs11809118	69142061	rs6658033	69185277	rs1022013	69204632
rs6658623	69149723	rs6673849	69185699	rs12097254	69208067
rs9804111	69152480	rs4484966	69188053	rs4484967	69210444
rs4420133	69157106	rs11802814	69189898	rs4313445	69210718
rs11809330	69158475	rs13375505	69191724	rs12732980	69214002
rs10127680	69159318				

Table 384 – LD Block 383 – Chromosome 1					
rs9728717 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9727725	85059267	rs1409214	85063509	rs2389786	85078597
rs9729034	85062336	rs4484942	85065895	rs10493756	85080650
rs9728717	85062997	rs12130014	85070402	rs1409215	85083420
rs10159252	85063085	rs11161464	85070699	rs1325272	85084954
rs1409213	85063415				

Table 385 – LD Block 384 – Chromosome 1					
rs12564925, rs3862047 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2274739	151878757	rs913861	151888844	rs4351684	151903484
rs12564925	151880169	rs4845563	151895650	rs3862047	151904241
rs10797056	151880407	rs3806234	151897695	rs10797096	151907289
rs3790412	151883481	rs6692298	151898763	rs7536700	151907451
rs3828031	151883756	rs7345	151900682	rs11265625	151909533
rs7934	151885390	rs3795396	151902049	rs6674929	151915285
rs913860	151886751	rs4515830	151903096	rs9661993	151923029

Table 386 – LD Block 385 – Chromosome 1					
rs12565565 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10799925	161746643	rs12565565	161748864	rs12038132	161750232
rs10799926	161746951	rs12566406	161748923	rs12038163	161750351
rs1934523	161747175	rs12744111	161749300	rs12144373	161750980
rs1934520	161747409	rs10917783	161749713	rs1934517	161751939
rs6676820	161748129	rs1934519	161749864	rs12044521	161752714
rs12565748	161748633				

Table 387 – LD Block 386 – Chromosome 1					
rs12067790 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10489373	167206413	rs12026831	167211518	rs1033805	167219158
rs6427168	167207640	rs3007378	167211849	rs12739430	167219712
rs10919026	167208514	rs10919028	167212050	rs4142001	167219948
rs10800398	167209453	rs10458393	167215846	rs7538643	167220858
rs2181210	167210394	rs3007381	167217132	rs2146194	167221238
rs12067790	167210444	rs12030460	167217765		

Table 388 – LD Block 387 – Chromosome 1					
rs2421519, rs16863716, rs10800572, rs10489243 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11589761	169037973	rs9287100	169099797	rs2038113	169132187
rs2143109	169039655	rs10442651	169099948	rs10919511	169133130
rs1004759	169043173	rs10489236	169099964	rs10919513	169133667
rs10919478	169043916	rs4656805	169100325	rs10800566	169133675
rs6660781	169044482	rs4656807	169100462	rs10919514	169133748
rs1033457	169057426	rs4656808	169100571	rs1008779	169134173
rs6683847	169058435	rs10800560	169100723	rs1008778	169134265
rs10737555	169062479	rs988340	169100893	rs10800567	169134950
rs6677161	169063828	rs926440	169100968	rs10442652	169136992
rs10753823	169065068	rs926441	169101080	rs10919516	169137301
rs6658807	169065128	rs6693346	169101626	rs10919517	169137407
rs10919486	169065277	rs4656809	169102386	rs12128956	169138247
rs10753824	169065801	rs10489237	169102926	rs10800568	169138335
rs2143111	169067487	rs3765377	169103665	rs4607948	169139055
rs6664881	169072251	rs3765378	169103917	rs10919521	169139757
rs12031777	169073422	rs12563179	169105376	rs10919524	169140013
rs10919489	169073959	rs3980702	169107486	rs12239620	169140187
rs10800546	169074210	rs763736	169108880	rs12142351	169141146
rs10753825	169074397	rs2038111	169110501	rs10919525	169142151
rs6661079	169074887	rs4656810	169110574	rs10800569	169143311
rs6699455	169075213	rs10489238	169111036	rs721756	169143708
rs10800547	169079105	rs926442	169111806	rs10800570	169144030
rs7551838	169080944	rs10800561	169112369	rs10800571	169144622
rs7551763	169080984	rs2421519	169115098	rs10919527	169145358
rs10800548	169082877	rs3862938	169115692	rs12738997	169145728
rs6657519	169082976	rs7521802	169118757	rs12730263	169147200
rs6657530	169083015	rs16863716	169122832	rs12566178	169147546
rs10919492	169083359	rs10489239	169123476	rs10919532	169150527
rs6664433	169084963	rs4656811	169124238	rs10800572	169152187

Table 388 – LD Block 387 – Chromosome 1					
rs2421519, rs16863716, rs10800572, rs10489243 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2421501	169092103	rs10489241	169124719	rs11810972	169152249
rs12566091	169092159	rs10489242	169124992	rs4483469	169152967
rs12138160	169094706	rs10489243	169125158	rs3980708	169153080
rs983215	169097269	rs6667186	169125941	rs7514995	169153646
rs10489234	169097594	rs16863739	169126444	rs2206558	169156027
rs1022522	169098037	rs12038181	169127155	rs2206559	169156292
rs10489235	169099466	rs3980705	169128458	rs12060943	169157371
rs10442650	169099739	rs12029713	169129334	rs7533846	169158016
rs12062677	169158969	rs2206561	169160915	rs6669479	169161895
rs12094417	169159603	rs6681815	169161546	rs9633327	169161994
rs12089701	169159632	rs6427274	169161745	rs6427275	169162422
rs10919533	169160279				

Table 389 – LD Block 388 – Chromosome 1					
rs12754916 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12142391	176739728	rs6695982	176747356	rs4387136	176755217
rs12120301	176739896	rs10913562	176748373	rs3813636	176756601
rs6704400	176741116	rs12096233	176749505	rs3813637	176758303
rs4132869	176743124	rs10798610	176749607	rs12023718	176758502
rs4304537	176743177	rs12754916	176750688	rs12033565	176758589
rs4076972	176744055	rs10798611	176751457	rs7527160	176759070
rs10158746	176745415	rs12750502	176753847	rs7527363	176759258
rs16852934	176745913	rs12076608	176754484		

Table 390 – LD Block 389 – Chromosome 1					
rs6668819 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6664493	176761051	rs10798618	176785747	rs12047530	176810030
rs6668819	176762864	rs4233176	176787706	rs12735140	176810841
rs4457535	176763809	rs17361286	176788539	rs2493864	176811626
rs4233172	176764989	rs10913570	176789749	rs2493865	176811639
rs4652301	176766422	rs6691795	176792458	rs2209168	176812356
rs10798613	176766645	rs6701606	176793009	rs16853043	176812549
rs6682815	176767732	rs10913571	176793271	rs12024886	176814285
rs12040058	176770180	rs6660445	176795494	rs2493848	176814461
rs12734345	176771503	rs10913573	176797078	rs2248961	176817563
rs4132058	176772180	rs12046110	176797740	rs2811295	176817890
rs4075631	176773217	rs4650999	176798811	rs2811297	176818095

Table 390 – LD Block 389 – Chromosome 1					
rs6668819 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6700266	176775553	rs4651000	176798846	rs2761459	176818199
rs10913567	176778564	rs4433354	176799107	rs2811302	176819498
rs12044868	176780826	rs10798619	176799140	rs2492279	176820103
rs12568310	176781245	rs4077195	176800399	rs1075804	176820956
rs4650993	176781810	rs4076205	176800780	rs2761463	176823760
rs4650994	176781935	rs4607830	176801775	rs6658398	176825504
rs10798617	176782429	rs10913574	176803105	rs2811271	176826782
rs4650995	176783939	rs12048597	176804939	rs2476554	176829611
rs4650996	176783988	rs2493858	176807833	rs2492274	176829712
rs4233175	176784214	rs7552110	176808777	rs2493855	176830126
rs10913569	176784631	rs2493862	176809648	rs2811285	176830400
rs4511075	176785259				

Table 391 – LD Block 390 – Chromosome 1					
rs12405448 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1454353	189360439	rs12067987	189376596	rs1563191	189384372
rs2168081	189362378	rs6684132	189377240	rs12405448	189386015
rs1073289	189363908	rs1993302	189377418	rs11807971	189390668
rs4845268	189368705	rs7538510	189378296	rs10920903	189394138
rs10920895	189368797	rs6675143	189378707	rs1454356	189400412
rs6678513	189370442	rs4553154	189379927	rs12024470	189401268
rs6428043	189371153	rs10753973	189380326	rs6670229	189403281
rs6681927	189371509	rs10753974	189382261	rs1563192	189403447
rs7521976	189372649	rs997973	189384221	rs12086917	189405789
rs6428044	189372806				

Table 392 – LD Block 391 – Chromosome 2					
rs1597982 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1453485	12275278	rs12995723	12281679	rs1453487	12284232
rs13006430	12279084	rs1597982	12281921	rs1453488	12284359
rs16858479	12279324	rs4668752	12282018	rs12692474	12285149
rs10929792	12279672	rs12692473	12282715	rs7579120	12286665
rs4669833	12279957	rs13429163	12282739	rs1453495	12287309
rs10929794	12281000	rs724022	12283878	rs4669834	12287321

Table 393 – LD Block 392 – Chromosome 2					
rs17032926 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs545880	45058566	rs2917758	45064347	rs10179001	45071567
rs11680561	45058628	rs2959238	45064403	rs10181483	45071745
rs4953160	45058750	rs2917759	45064692	rs13404503	45073134
rs558110	45058799	rs2917760	45064733	rs10188145	45073639
rs558224	45058847	rs6706335	45064762	rs2917769	45073852
rs559039	45058899	rs2917761	45064788	rs767492	45074583
rs4953161	45059051	rs2917763	45065124	rs767491	45074720
rs560908	45059103	rs2917764	45065247	rs767493	45074809
rs561078	45059170	rs2959240	45065407	rs11901390	45074881
rs561810	45059209	rs2959241	45065418	rs2922008	45075451
rs477072	45059742	rs2959242	45065596	rs7597027	45076640
rs578732	45059827	rs2922016	45065620	rs2959251	45076775
rs505935	45060605	rs2917765	45065762	rs17032926	45077075
rs1067253	45060732	rs2922015	45065792	rs10495923	45077816
rs4953162	45061025	rs2959243	45066025	rs6724823	45080086
rs501581	45061123	rs1545371	45066981	rs2959253	45083376
rs510523	45061133	rs895633	45067195	rs3738974	45087306
rs503435	45061328	rs6743447	45067249	rs2959230	45087617
rs535137	45061524	rs874576	45067527	rs2959229	45087867
rs541473	45062196	rs2959244	45068053	rs3768917	45088439
rs478756	45062398	rs2959245	45069374	rs921117	45091715
rs478918	45062457	rs2959246	45069384	rs964992	45092214
rs565217	45062481	rs2922013	45069441	rs1447106	45092525
rs566941	45062642	rs2917767	45069783	rs921115	45095120
rs482536	45062818	rs6705604	45070089	rs735845	45098626
rs4953163	45063000	rs2922011	45070210	rs2921993	45102522
rs4953164	45063021	rs2922010	45070543	rs2959265	45102930
rs17032863	45063197	rs10201353	45070601	rs2959264	45103341
rs486218	45063203	rs10190453	45070649	rs4953173	45103903
rs486043	45063584	rs2917768	45070784	rs2921991	45104314
rs486930	45063673	rs2959249	45070833	rs2921989	45105872
rs511968	45063694	rs6709491	45070880	rs11897413	45105963
rs2673276	45063867	rs6709645	45070996	rs4952731	45106219
rs1657854	45064309				

Table 394 – LD Block 393 – Chromosome 2					
rs1526645 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7609022	76340615	rs17012382	76341373	rs1524212	76341922
rs11126512	76340903	rs1526645	76341430	rs2860732	76342072

Table 394 – LD Block 393 – Chromosome 2					
rs1526645 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11683590	76341296	rs1916869	76341715	rs1405346	76342186

Table 395 – LD Block 394 – Chromosome 2					
rs10194221 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10194221	76348922	rs17754447	76349401		

Table 396 – LD Block 395 – Chromosome 2					
rs17019797 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17019797	80952767	rs1960644	80988128	rs6726588	81009886
rs17548585	80954301	rs1960643	80988314	rs1492554	81010556
rs2131255	80955775	rs6740068	80991645	rs2902215	81014999
rs1492549	80961055	rs1907781	80996187	rs2862314	81015858
rs7349292	80961840	rs1845025	80996790	rs6737243	81017696
rs2862351	80966866	rs7594326	80996966	rs11685848	81017873
rs7593023	80971621	rs6756223	81001517	rs7590449	81018768
rs6710603	80974062	rs1492555	81005342	rs7579136	81022634
rs1466694	80977834	rs13030250	81005617	rs4502443	81024078
rs17019859	80978747	rs2902245	81006022	rs7583676	81024515
rs17019861	80979118	rs923750	81006134	rs7587054	81025036
rs1466693	80979145	rs10176430	81006869	rs4524145	81029245
rs13386824	80979653	rs1907778	81007164	rs4365488	81029549
rs17019864	80979744	rs1907777	81007284	rs4432478	81029686
rs902885	80983304	rs12714023	81007640		

Table 397 – LD Block 396 – Chromosome 2					
rs1947463, rs1947465 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1454996	84417896	rs1947463	84433004	rs1378275	84462137
rs1454998	84419038	rs1947464	84433087	rs17024955	84462502
rs10211465	84419692	rs1584957	84440918	rs1823933	84464046
rs1840403	84427457	rs2364895	84441359	rs12151725	84468594
rs1840404	84429559	rs11893199	84441762	rs10496309	84468983
rs1840405	84429714	rs2364896	84442004	rs2085189	84470630
rs1840406	84429911	rs1455004	84442047	rs1947465	84471616
rs7590500	84430382	rs1455005	84442075	rs11904045	84472093
rs1902156	84431095	rs2364897	84442846	rs6748241	84472362
rs1902157	84431169	rs2364914	84449486	rs1455013	84473429

Table 397 – LD Block 396 – Chromosome 2					
rs1947463, rs1947465 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1031533	84432411	rs1455002	84454163		

Table 398 – LD Block 397 – Chromosome 2					
rs7559623, rs4832087 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2045675	84517335	rs4832084	84570826	rs10496312	84615096
rs6721249	84520477	rs1599307	84571053	rs17025211	84616060
rs12618520	84521114	rs1467996	84571942	rs17025218	84617231
rs17025046	84521499	rs4257414	84572586	rs1460702	84617677
rs17025048	84522217	rs4441483	84572798	rs17025222	84618337
rs4146945	84522416	rs4441484	84572901	rs1460700	84618542
rs17025058	84523697	rs1993694	84574216	rs1460699	84618883
rs1599306	84525993	rs12714129	84575517	rs965731	84620304
rs10210248	84526763	rs4832087	84578184	rs17025229	84621542
rs6739363	84529983	rs4831979	84578891	rs1460698	84622569
rs2364906	84530651	rs7581042	84592837	rs7607328	84622830
rs17025070	84533710	rs1380901	84594471	rs1037863	84624991
rs17025075	84533875	rs4831981	84596879	rs1542477	84625078
rs7607535	84534897	rs4832088	84597495	rs922194	84625836
rs1964529	84536206	rs11897463	84597583	rs1037861	84626489
rs1159790	84539400	rs7587784	84599997	rs1037860	84626513
rs7561462	84540268	rs4395255	84600798	rs12474026	84628404
rs3795866	84540440	rs6750914	84603347	rs10173985	84632139
rs3795867	84540510	rs7580136	84605293	rs12373700	84633003
rs756080	84543744	rs9784108	84606141	rs2126013	84633279
rs4831975	84544056	rs4832089	84609560	rs6547566	84635210
rs12618941	84544437	rs4832091	84609961	rs7567850	84635547
rs7575751	84549514	rs1460697	84610070	rs9309617	84635764
rs13000280	84550507	rs6547564	84610534	rs4832093	84636871
rs13006052	84550625	rs10177063	84611711	rs4528771	84637429
rs12623199	84554010	rs17025186	84612706	rs4484047	84639259
rs2365457	84557379	rs17025187	84612805	rs7559623	84639685
rs12616605	84559555	rs17025188	84613257	rs10166830	84640551
rs1967379	84561464	rs6547565	84613948	rs1531363	84642559
rs1473411	84561901	rs17025190	84614093	rs17025283	84642639
rs7581224	84562726	rs17025192	84614353	rs13414268	84645140
rs10182687	84566034	rs17025195	84614445	rs2126012	84647190
rs1467998	84568339	rs17025199	84614718	rs7601121	84649465
rs1468000	84569573	rs17025202	84614795	rs11891970	84654116

Table 399 – LD Block 398 – Chromosome 2					
rs1811537, rs6705459 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13002679	84654409	rs4832094	84661994	rs1811537	84668747
rs6547570	84660453	rs4832097	84662164	rs17759625	84669195
rs10496314	84660896	rs4832098	84662200	rs1006244	84669526
rs4616493	84661513	rs12328908	84662759	rs1563895	84671225
rs12714134	84661560	rs6705459	84664102	rs6720466	84672895
rs12714135	84661617	rs10208631	84666870	rs12466574	84676060

Table 400 – LD Block 399 – Chromosome 2					
rs1192296 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6547578	84765028	rs1192294	84775746	rs1192266	84789711
rs17025477	84766966	rs1192291	84777889	rs1918693	84792492
rs1192305	84767860	rs1192285	84779995	rs4832108	84793988
rs1192304	84770401	rs1192284	84780852	rs1728059	84794743
rs1192303	84771281	rs17025497	84782559	rs1192344	84798980
rs1192297	84773390	rs11889854	84782768	rs1192343	84799190
rs1192296	84773552	rs1192269	84786347	rs10199591	84799574
rs1192295	84774944				

Table 401 – LD Block 400 – Chromosome 2					
rs1192340 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1192340	84801532	rs1192326	84812152	rs1192323	84816887
rs1192336	84803517	rs6705719	84812170	rs13386100	84817103
rs1192333	84805193	rs1192325	84812591	rs17025533	84821241
rs1192332	84805428	rs1192324	84815246	rs13407438	84821407
rs1192328	84809782	rs1960630	84816174	rs1192317	84822111

Table 402 – LD Block 401 – Chromosome 2					
rs17825681 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7602767	102574972	rs11679512	102582395	rs6708609	102598525
rs1861229	102575042	rs11685729	102582510	rs2058612	102599062
rs1861228	102575377	rs6725806	102582604	rs17027626	102599425
rs10209131	102576028	rs2192665	102583010	rs3806581	102601744
rs7573372	102576562	rs7573974	102583252	rs2160187	102606296
rs7573475	102576653	rs7593439	102585147	rs1008397	102606420
rs7582956	102576855	rs873625	102585645	rs2215946	102614343
rs12471422	102576869	rs4140835	102586204	rs2041734	102617681

Table 402 – LD Block 401 – Chromosome 2					
rs17825681 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7557352	102576887	rs17027576	102586543	rs2215945	102618123
rs2310313	102576976	rs9678846	102587375	rs17775170	102618359
rs17027547	102577874	rs7591841	102587499	rs4851621	102618899
rs17027550	102578208	rs741257	102588643	rs12712165	102621114
rs2192667	102578628	rs9677746	102590861	rs6717565	102621240
rs6543162	102578840	rs6543166	102591641	rs10181400	102622979
rs6543163	102579107	rs7593982	102592837	rs10184340	102623581
rs7593772	102579482	rs7577683	102592917	rs12998183	102623992
rs957404	102579890	rs7603234	102592980	rs4851622	102626877
rs17825681	102580313	rs6543167	102595719	rs4851623	102626976
rs17027571	102580922	rs6739314	102595745	rs2310316	102632311
rs11673795	102582367				

Table 403 – LD Block 402 – Chromosome 2					
rs4567955 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7591409	106147158	rs11682222	106167688	rs10209406	106182652
rs10514793	106152839	rs13014335	106169237	rs7558120	106183972
rs17032574	106155013	rs6726248	106173279	rs11124094	106186825
rs894392	106156092	rs1031072	106173977	rs2377539	106187252
rs4567955	106156548	rs12621092	106174178	rs6543386	106188367
rs716373	106161918	rs4851934	106174727	rs6543387	106188372
rs11124088	106163264	rs11124092	106178342	rs4851937	106189870
rs6725081	106163329	rs6720802	106179059	rs13006272	106190084
rs6543383	106166613	rs6721037	106179251		

Table 404 – LD Block 403 – Chromosome 2					
rs17197688 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10188440	137665666	rs1002958	137690694	rs10198790	137699790
rs2164334	137669891	rs2015616	137690989	rs6430698	137700189
rs10210103	137670606	rs736115	137691190	rs6430699	137700229
rs1550087	137671697	rs4954484	137695842	rs17197674	137700617
rs2196343	137672110	rs2889089	137696677	rs4954486	137700731
rs7424822	137672476	rs4610107	137696788	rs4954487	137701089
rs7588708	137672970	rs1550083	137696814	rs920099	137702567
rs7589054	137673247	rs2375456	137696859	rs12466293	137703882
rs2217840	137676749	rs4954485	137696948	rs1469818	137704213
rs10153631	137677389	rs12623052	137697392	rs17197688	137705560

Table 404 – LD Block 403 – Chromosome 2					
rs17197688 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10153632	137677439	rs6722499	137697517	rs7571772	137707930
rs6735885	137681153	rs6430697	137697654	rs2889090	137708944
rs2375451	137685713	rs2196346	137698145	rs2375457	137709041
rs2375452	137685770	rs2196345	137698444	rs13027191	137710436
rs6713475	137685986	rs10928600	137698618	rs17418745	137710622
rs12467218	137686674	rs12691909	137699133	rs6735107	137712494
rs6730961	137687192	rs17269864	137699520	rs10928601	137713900
rs6430690	137688278	rs12691911	137699597	rs10928602	137714044
rs6430692	137688351	rs12691913	137699628		

Table 405 – LD Block 404 – Chromosome 2					
rs10178021 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6742832	139530493	rs6430823	139553158	rs1370322	139575603
rs9287508	139532343	rs7572289	139554187	rs4954647	139575672
rs1121728	139536853	rs4954646	139554727	rs7562392	139576483
rs16841562	139537778	rs2376115	139555074	rs1595317	139578630
rs4954737	139538186	rs12621919	139559251	rs7564350	139581903
rs10928684	139538487	rs1437320	139560111	rs2099575	139583024
rs1437309	139539062	rs1437321	139560258	rs2217962	139587393
rs1437310	139539104	rs1437322	139560331	rs12465063	139587446
rs13001729	139539367	rs10170095	139560363	rs905995	139590038
rs16841575	139539529	rs10204210	139563219	rs12613594	139590531
rs1370318	139540104	rs1827817	139564025	rs11898354	139590779
rs1370319	139540370	rs12470704	139564580	rs2376124	139591340
rs11681419	139541314	rs12613872	139568664	rs12613183	139592535
rs1437314	139542868	rs1595315	139568948	rs7602716	139593405
rs1437315	139543106	rs1595316	139569230	rs10207327	139594091
rs924952	139548619	rs724394	139571326	rs1370323	139594418
rs2015094	139548997	rs6708367	139571653	rs10178021	139594892
rs1529972	139549766	rs1437323	139572595	rs11680642	139596308
rs10445695	139550494	rs1437324	139572744	rs1910957	139596645
rs716981	139551534	rs7567315	139573258	rs6752557	139597042
rs963629	139552493	rs1437325	139573542	rs10170299	139597255
rs963630	139552572	rs10928687	139574715	rs2196595	139597679
rs963631	139552723	rs13016107	139575033		

Table 406 – LD Block 405 – Chromosome 2					
rs355581 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs355577	142095265	rs893241	142097148	rs12992837	142097747
rs10496889	142095445	rs1574383	142097262	rs11885120	142098306
rs6429915	142096570	rs355582	142097515	rs16846697	142099644
rs10460249	142096996	rs355583	142097556	rs10928113	142100857
rs355581	142097057	rs12992601	142097642		

Table 407 – LD Block 406 – Chromosome 2					
rs16834415 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6758797	201329034	rs7575806	201340757	rs11683632	201348820
rs16834375	201331958	rs10432437	201340821	rs16834512	201349290
rs1001250	201333063	rs10185328	201341233	rs6720418	201349618
rs1001249	201333264	rs16834435	201341387	rs10515941	201351729
rs10931919	201335570	rs2348128	201342406	rs10515942	201351764
rs4674400	201336059	rs10181489	201343780	rs2881836	201351827
rs16834398	201337863	rs16834453	201344689	rs2348129	201352477
rs16834415	201339638	rs16834467	201346092	rs13028496	201353594
rs16824534	201340031	rs12622452	201346892		

Table 408 – LD Block 407 – Chromosome 2					
rs4675296 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2036927	203348958	rs6705330	203370442	rs16839323	203388536
rs7559745	203353240	rs13409418	203372489	rs12470845	203399415
rs6733972	203361083	rs13429334	203374027	rs4675296	203401804
rs4675293	203364366	rs12478319	203374140	rs17594321	203403510
rs6704822	203370024	rs11694728	203374564		

Table 409 – LD Block 408 – Chromosome 2					
rs4675352 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10932016	204171790	rs4303699	204176719	rs4675355	204185126
rs1533848	204172864	rs11679357	204178329	rs4675356	204185176
rs12613538	204173270	rs11679464	204178576	rs7583807	204185797
rs1879878	204173364	rs7587421	204179634	rs7370907	204188670
rs4675351	204175057	rs4675354	204179718	rs2352405	204201896
rs4675352	204176553	rs4456686	204181383	rs7422945	204202943
rs4470329	204176701				

Table 410 – LD Block 409 – Chromosome 3					
rs341791 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2324710	8994748	rs341792	8998219	rs341790	8999146
rs4312638	8995372	rs341791	8999017	rs1043951	8999521
rs6784767	8996348				

Table 411 – LD Block 410 – Chromosome 3					
rs4684690, rs4684689 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1370711	10422415	rs6798693	10423298	rs4684690	10423449
rs3774152	10422496	rs9839685	10423340	rs6786239	10423772
rs1370710	10422530	rs4684689	10423426	rs34903	10424459
rs13433910	10422889				

Table 412 – LD Block 411 – Chromosome 3					
rs17804919 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9821725	20351688	rs11128952	20360216	rs1464293	20366442
rs1356791	20352728	rs9851602	20362530	rs939296	20367422
rs1356792	20353157	rs11719694	20363109	rs17006900	20369688
rs9836392	20354081	rs12714986	20364302	rs13084801	20376432
rs12635141	20355713	rs9838906	20365250	rs12638260	20377069
rs1356793	20356890	rs17804919	20365671	rs9842115	20378197
rs12489904	20359631	rs1464294	20366209		

Table 413 – LD Block 412 – Chromosome 3					
rs10490840 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10490840	24529708	rs2362189	24533910		

Table 414 – LD Block 413 – Chromosome 3					
rs9682482 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9864307	26272741	rs6800290	26305447	rs7372296	26352581
rs11920138	26276577	rs7616136	26317796	rs6769506	26361769
rs7614898	26286118	rs6801049	26341958	rs9682482	26362867
rs6551082	26287454	rs7374554	26342870	rs9820756	26368309
rs7645906	26302075				

5

Table 415 – LD Block 414 – Chromosome 3					
rs12485487, LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6793666	31515880	rs12485856	31518326	rs11918959	31526183
rs16756	31515992	rs11926676	31519225	rs4390968	31526784
rs12485487	31516304	rs4511935	31522700	rs6791590	31527257
rs7641067	31516873	rs12491561	31524957	rs4396931	31527844
rs9830894	31516980	rs7652669	31525512	rs7614942	31527932

Table 416 – LD Block 415 – Chromosome 3					
rs4681992 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9871422	57431411	rs9864150	57444312	rs2084358	57457928
rs6445887	57432480	rs7637447	57445550	rs4681988	57461152
rs7612750	57434952	rs10510793	57448790	rs6445900	57464085
rs13099288	57435447	rs6806444	57450391	rs4681992	57464631
rs6445888	57436905	rs6766895	57450804	rs13072470	57469029
rs9863860	57444137	rs9311650	57453842		

Table 417 – LD Block 416 – Chromosome 3					
rs2605436 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1683354	59715459	rs2605436	59719703	rs13313901	59723772
rs1485723	59715994	rs993000	59720625	rs1683348	59724311
rs1385715	59716555	rs1629023	59721113	rs1683346	59724743
rs994930	59716902	rs481165	59722942	rs1126268	59725831

Table 418 – LD Block 417 – Chromosome 3					
rs704416 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs704415	64226336	rs704416	64226430		

Table 419 – LD Block 419 – Chromosome 3					
rs7629235, rs7618768 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1373508	80266126	rs1396682	80312263	rs17816626	80343870
rs9824271	80267968	rs6804127	80314870	rs17017623	80344760
rs7650374	80270653	rs1509278	80316222	rs17749220	80345403
rs9309849	80272724	rs1396679	80316987	rs1567356	80346028
rs1584112	80277118	rs9867579	80317998	rs6762300	80346877
rs6778792	80278568	rs9860880	80318082	rs7642828	80347496

Table 419 – LD Block 419 – Chromosome 3					
rs7629235, rs7618768 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6774541	80282772	rs6548678	80319558	rs9861664	80348623
rs1588317	80286426	rs9834351	80320197	rs17749340	80348898
rs17017592	80288890	rs11127673	80320815	rs11920819	80351726
rs17017593	80289660	rs2055766	80322340	rs7653279	80351948
rs9850068	80289891	rs4337612	80323823	rs1472938	80352849
rs9860888	80291982	rs9875976	80324536	rs7645008	80353231
rs9845138	80292264	rs9856568	80324826	rs12634970	80353976
rs9823914	80295617	rs11919499	80327471	rs12638331	80354009
rs4856264	80296409	rs11915923	80327550	rs7618768	80355420
rs6799554	80298167	rs9826992	80331318	rs7629235	80355605
rs9827022	80301288	rs9827452	80331669	rs9865950	80356010
rs1912037	80310596	rs6548679	80332990	rs9854469	80359689
rs12489589	80311032	rs2089617	80337686	rs9859124	80360039
rs6805096	80311922	rs3932247	80339849	rs2341383	80361777
rs17017615	80312079	rs9845867	80343780	rs9815576	80362995

Table 420 – LD Block 419 – Chromosome 3					
rs2712447 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12491921	107771640	rs2590199	107784750	rs16852665	107807585
rs2712441	107773538	rs2715252	107802545	rs2715250	107807712
rs2712447	107777118	rs2590201	107804224	rs2590187	107809797
rs7614427	107780547	rs2590203	107805520	rs2712479	107809818
rs2921262	107782014	rs16852663	107807511		

Table 421 – LD Block 420 – Chromosome 3					
rs1513167 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3845226	118451307	rs6438386	118465440	rs4855937	118481139
rs3845227	118451339	rs4855899	118466540	rs1513164	118481546
rs16826431	118451912	rs3849470	118467832	rs4490370	118482051
rs1551841	118452810	rs6438387	118469822	rs3914269	118482301
rs3900989	118452943	rs7625345	118470739	rs3849471	118482818
rs1237324	118453038	rs6766910	118471096	rs13062120	118483584
rs1218623	118453497	rs2137551	118471324	rs9849199	118483625
rs1218624	118454256	rs6769853	118471562	rs6438388	118485613
rs1218625	118454765	rs6794133	118471619	rs10049295	118485674
rs938169	118455369	rs7617419	118472324	rs881130	118485899
rs4505703	118455969	rs9862702	118474235	rs11926052	118486995

Table 421 – LD Block 420 – Chromosome 3					
rs1513167 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs938170	118456098	rs7651417	118474291	rs1513167	118487491
rs1218626	118457060	rs9829776	118474815	rs1513168	118487631
rs9866112	118457135	rs9855260	118475937	rs6778470	118489824
rs2203240	118458035	rs11920807	118476843	rs12635174	118490899
rs2203241	118458122	rs7616414	118477342	rs4855940	118491173
rs1218621	118459636	rs4855900	118477957	rs6806624	118491383
rs1218620	118459785	rs9865386	118479616	rs4855901	118491820
rs9874795	118463723	rs9828780	118480034	rs7653041	118491874
rs6804355	118464173	rs13061234	118480125	rs13092499	118492509
rs1513179	118464747	rs1996094	118480367		

Table 422 – LD Block 421 – Chromosome 3					
rs11710724 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6792646	143051318	rs11710724	143052984	rs13078635	143055185
rs12485634	143052463	rs16851872	143054733	rs12497872	143055371
rs13066028	143052903				

Table 423 – LD Block 422 – Chromosome 3					
rs2068229, rs16851892 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9832234	143056451	rs9822066	143080864	rs6440049	143104769
rs4683634	143063173	rs2115938	143081641	rs2068229	143105994
rs4260404	143063893	rs2115937	143088399	rs2068230	143106062
rs6773662	143067165	rs1897139	143088651	rs2068231	143106146
rs6440043	143072195	rs9810380	143088934	rs9878540	143107319
rs9850595	143073542	rs4683645	143093497	rs7622417	143108689
rs7648330	143074713	rs1072982	143095063	rs9827902	143109773
rs1560413	143079538	rs7613107	143096654	rs6806440	143110228
rs1560412	143079561	rs6440047	143098749	rs6782694	143110550
rs16851892	143080228	rs6440048	143104745		

Table 424 – LD Block 423 – Chromosome 3					
rs12494971 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6440052	143141931	rs12494971	143147034	rs2163294	143151143
rs9942	143146442				

Table 425 – LD Block 424 – Chromosome 3					
rs11569218 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7642874	143180562	rs11569218	143183993	rs11569216	143184217

Table 426 – LD Block 425 – Chromosome 3					
rs11569193 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2063454	143198061	rs11569193	143205117	rs6791514	143248995
rs2063453	143198233	rs1397764	143233500	rs1355438	143250543
rs11706480	143202070	rs9848817	143235494		

Table 427 – LD Block 426 – Chromosome 3					
rs11705932, rs11711550 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9877817	143295449	rs11711550	143299875	rs11705932	143301540

Table 428 – LD Block 427 – Chromosome 3					
rs3892035 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6443973	185682389	rs3892035	185685725	rs4912564	185690981
rs6443976	185685106	rs7621519	185689373		

Table 429 – LD Block 428 – Chromosome 3					
rs16859825 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6788796	186400643	rs9852812	186419113	rs2301052	186436356
rs721814	186408078	rs6779662	186423192	rs2160812	186443803
rs2160815	186408640	rs3774051	186424419	rs2216386	186448393
rs2111669	186408793	rs7374394	186428543	rs3764919	186449252
rs16859825	186413707	rs719393	186430116	rs12696543	186451512
rs11715222	186414496	rs4687157	186432788	rs6795830	186463065
rs1979996	186415179				

5

Table 430 – LD Block 429 – Chromosome 4					
rs10034038 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17448392	20798968	rs1364839	20799560	rs10034038	20800392
rs1364838	20799289				

Table 431 – LD Block 430 – Chromosome 4					
rs2608819 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13140731	39104571	rs2687984	39105816	rs2687978	39107971
rs17431867	39104690	rs1979283	39107364	rs17431894	39108026
rs11933845	39105525	rs2608819	39107826	rs1542423	39108527

Table 432 – LD Block 431 – Chromosome 4					
rs6554071 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10517281	53722352	rs6554071	53760266	rs11929903	53784334
rs6554068	53727076	rs4421047	53766201	rs2412401	53788474
rs9992110	53727838	rs4588514	53769399	rs11721940	53792906
rs17082492	53728300	rs17082504	53770367	rs7688646	53795722
rs13111251	53737968	rs12108246	53772921	rs11133252	53796800
rs10517283	53745970	rs13146499	53773598	rs4864737	53797470
rs7672997	53748108	rs9998819	53774034	rs2412397	53804380
rs11133248	53752859	rs6554072	53774304	rs11133257	53815219
rs6822933	53754202	rs6827392	53774355	rs4864451	53818542
rs12507517	53756746	rs6818181	53781853	rs751266	53826296

Table 433 – LD Block 432 – Chromosome 4					
rs4864749 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4864737	53797470	rs9884671	53842185	rs17654608	53878489
rs2412397	53804380	rs1481818	53842730	rs11731676	53878978
rs11133257	53815219	rs6852755	53843383	rs1383981	53879440
rs4864451	53818542	rs900110	53846782	rs1383983	53882379
rs751266	53826296	rs1481822	53848571	rs4864749	53885719
rs9990771	53827477	rs1842658	53850323	rs7657388	53886871
rs7683984	53829489	rs17082565	53867121	rs6554091	53896377
rs4864453	53831985	rs6811200	53872084	rs11725172	53898458
rs7682970	53832716	rs6554089	53872133	rs11933772	53901636
rs6826467	53834091	rs11724062	53874074	rs6554093	53907146
rs17082557	53835173	rs9998376	53875279	rs10517292	53909285
rs11724781	53836222	rs4864747	53876546	rs17705869	53910000

Table 434 – LD Block 433 – Chromosome 4					
rs12645716 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1131878	70380493	rs1826690	70386855	rs13111134	70389400
rs1051752	70380646	rs2220857	70387326	rs1845556	70389473

Table 434 – LD Block 433 – Chromosome 4					
rs12645716 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1389930	70381761	rs1845558	70388122	rs3822179	70390784
rs4557343	70384595	rs2013562	70389164	rs17671289	70393434
rs11249442	70384946	rs1845557	70389383	rs7441743	70394283
rs12645716	70385056				

Table 435 – LD Block 434 – Chromosome 4					
rs2575570 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2353398	145742208	rs2575577	145762646	rs2575570	145768383
rs10011200	145749153	rs17720281	145763226	rs2575572	145772179
rs2035744	145749735	rs17776795	145764286	rs6814581	145775676
rs13125844	145753394	rs2575574	145764385	rs11100862	145777101
rs7671078	145755421	rs2255895	145765906	rs12500932	145780354
rs7692554	145755786	rs2639582	145765990	rs1398244	145781907
rs11947381	145757300	rs7679425	145766316	rs6845999	145785276
rs2942220	145762324				

Table 436 – LD Block 435 – Chromosome 4					
rs6826142 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1514009	157004584	rs13122250	157027738	rs17379906	157041917
rs6835773	157005383	rs1554021	157029503	rs3775085	157042829
rs6848883	157006790	rs4352424	157029513	rs10857287	157043230
rs17033637	157007304	rs6826142	157029976	rs3796551	157046079
rs7670396	157007627	rs17314234	157030205	rs13125676	157046286
rs6536110	157020453	rs2175843	157032471	rs2271537	157049273
rs12504740	157024238	rs3755907	157041325		

Table 437 – LD Block 436 – Chromosome 5					
rs620703, rs7724049 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs505800	3980833	rs687595	4029564	rs10079295	4045249
rs2932330	3984045	rs13184298	4029669	rs1493467	4045869
rs612827	3984290	rs13171027	4031902	rs1493468	4046132
rs551294	3984431	rs7724049	4033081	rs680810	4046746
rs668776	3986455	rs10041162	4033473	rs483464	4046775
rs587367	3987677	rs1027318	4034156	rs553842	4047209
rs587434	3987721	rs10040150	4035255	rs1873222	4047277
rs659757	3988638	rs13187758	4035513	rs1982885	4048754

Table 437 – LD Block 436 – Chromosome 5					
rs620703, rs7724049 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs492478	3992476	rs4597974	4036117	rs7724210	4049425
rs585638	3993916	rs10060583	4037288	rs7710168	4049503
rs539718	3996784	rs1027319	4038247	rs685772	4049889
rs634344	3997125	rs1027321	4038280	rs11748824	4050830
rs620703	3997907	rs12173115	4038840	rs609720	4050947
rs667846	4000817	rs11134025	4039985	rs506566	4051457
rs11951565	4006812	rs8180529	4040011	rs638316	4052802
rs2008931	4007526	rs1496439	4040211	rs11739989	4053067
rs2008927	4007570	rs1496440	4040574	rs7713287	4053215
rs16872585	4010865	rs480506	4040969	rs4702312	4054310
rs595316	4012107	rs6860928	4042130	rs749905	4054782
rs631942	4016517	rs1878574	4043121	rs10052418	4055117
rs2138856	4021962	rs1389324	4044026	rs4449537	4055250
rs6897591	4022857	rs4702310	4044294	rs10060853	4055292
rs4330466	4028755	rs11134026	4044787	rs2398652	4055448
rs12519434	4029212	rs12187878	4045147		

Table 438 – LD Block 437 – Chromosome 5					
rs440292 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9291928	67644435	rs10058850	67647591	rs256508	67650151
rs440292	67645164	rs192282	67649399	rs391974	67650649
rs449319	67646104	rs10515077	67649557	rs625637	67651487
rs453940	67646238	rs256507	67649799	rs34292	67658838
rs184886	67647242				

Table 439 – LD Block 438 – Chromosome 5					
rs11950190 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7709828	94811898	rs9885158	94825978	rs17084852	94858688
rs10045714	94812888	rs10036119	94827052	rs2731838	94862093
rs10040367	94813073	rs7705862	94827111	rs2278224	94864678
rs1833894	94813662	rs7722969	94827158	rs10063417	94867526
rs1123965	94814933	rs7723951	94827703	rs2560258	94869243
rs7707851	94815108	rs9885291	94827914	rs17084867	94873701
rs7725219	94815259	rs3822616	94828145	rs6878974	94877552
rs1162859	94819229	rs3822617	94828157	rs2255165	94884445
rs3849752	94819622	rs11950190	94828575	rs17084873	94886874
rs2042871	94821085	rs11953633	94828742	rs10476652	94890261

Table 439 – LD Block 438 – Chromosome 5					
rs11950190 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3931769	94821355	rs3776875	94829892	rs9314148	94890920
rs2731818	94821797	rs1541798	94832717	rs6881618	94892258
rs9314142	94823120	rs17084839	94833272	rs10040106	94893192
rs9314144	94823188	rs2731816	94837210	rs6880676	94895428
rs9314145	94824649	rs2059786	94838454	rs2245588	94904019
rs9285017	94825167	rs7703285	94838533	rs2303649	94904890
rs9314147	94825288	rs6891486	94846395	rs2881773	94911139
rs1062073	94825555	rs2303650	94852411	rs2560274	94913416
rs1139111	94825638	rs13355280	94858271	rs2560275	94915190

Table 440 – LD Block 439 – Chromosome 5					
rs10060914 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10060914	136861259	rs4466157	136908508	rs4835737	136922963
rs10064012	136864468	rs10054254	136909092	rs13354001	136923001
rs1544028	136867863	rs723546	136909905	rs4835658	136923030
rs1569221	136870577	rs6877688	136910152	rs4835659	136923042
rs4246794	136873952	rs11740609	136910177	rs1989917	136923067
rs6864750	136873963	rs10056463	136910233	rs1989918	136923490
rs10068163	136875309	rs10078707	136910592	rs6864652	136923687
rs6884385	136881488	rs10491335	136919055	rs11748735	136923970
rs4976442	136886258	rs10076026	136919322	rs1989919	136925491
rs4835656	136889390	rs10076038	136919379	rs11242390	136926709
rs7714307	136897118	rs10058264	136921475	rs6862444	136926746
rs6860911	136898252	rs1989916	136921618	rs10066925	136927562
rs11737972	136907762	rs6869836	136922777	rs13156862	136927767
rs6866590	136908284				

Table 441 – LD Block 440 – Chromosome 5					
rs721865, rs873881, rs4958801, rs4958803, rs9324816 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1960290	154764061	rs4958803	154774673	rs9324819	154787215
rs1988694	154764370	rs10042751	154777038	rs12653471	154787744
rs13178956	154766650	rs2872328	154780712	rs2313500	154788725
rs10059714	154767856	rs1820794	154783481	rs1366580	154788898
rs12652180	154768255	rs1820795	154783604	rs1484274	154789692
rs10036375	154768590	rs10515719	154783990	rs10054001	154790031
rs10036440	154769028	rs1843102	154785304	rs13357562	154790846
rs6870869	154769181	rs1484275	154785594	rs17117508	154791393

Table 441 – LD Block 440 – Chromosome 5					
rs721865, rs873881, rs4958801, rs4958803, rs9324816 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs721865	154770129	rs10063605	154785734	rs9324820	154793593
rs2872329	154770550	rs9324817	154785920	rs10476823	154794002
rs9324816	154770807	rs1428882	154786467	rs9324821	154794036
rs873880	154773381	rs1428883	154786640	rs17117520	154794600
rs873881	154773525	rs9324818	154786696	rs17117523	154795910
rs873190	154774385	rs1428884	154786761	rs4958810	154795985
rs4958801	154774536	rs10065961	154787023	rs10060860	154796703

Table 442 – LD Block 441 – Chromosome 5					
rs1647600, rs1295223, rs1295234, rs1148124 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs267003	154811135	rs11167730	154830248	rs2081404	154849689
rs267004	154811704	rs185560	154830510	rs2431756	154849701
rs444796	154811826	rs1484280	154830892	rs2431757	154850005
rs1428885	154812482	rs267011	154832161	rs1647596	154850930
rs10054221	154814504	rs1148124	154833654	rs1363741	154851538
rs1835099	154815413	rs1295240	154834048	rs1644568	154851943
rs382924	154816979	rs267013	154834122	rs1644567	154852328
rs11167729	154818889	rs1295238	154834298	rs9324824	154854085
rs10085159	154819241	rs1148123	154835195	rs1644574	154854422
rs12652127	154820731	rs267014	154835209	rs1647595	154855333
rs461355	154821022	rs978000	154836144	rs1647594	154856240
rs1835101	154821314	rs267015	154836363	rs2312976	154857194
rs12652707	154821363	rs267016	154836890	rs2431755	154857696
rs429090	154821420	rs1295236	154837967	rs2432918	154857782
rs10515716	154822132	rs1295234	154838180	rs1647593	154858729
rs13167002	154822277	rs2627588	154838797	rs4958821	154859077
rs4958816	154823631	rs2194708	154839599	rs1647592	154859319
rs6881846	154823747	rs1872250	154839785	rs2432917	154860600
rs1385110	154824127	rs6580160	154840406	rs1644550	154861825
rs10515715	154824202	rs1872252	154840494	rs1644553	154862713
rs1529502	154825908	rs1647600	154840865	rs1647588	154863661
rs448373	154825964	rs2194707	154843443	rs1644556	154863771
rs1035956	154826082	rs1484277	154843930	rs1644557	154863832
rs267005	154826340	rs1647598	154844311	rs1644558	154865306
rs267007	154826981	rs4406186	154844847	rs1647585	154865456
rs267008	154827543	rs2432923	154845481	rs1647584	154865473
rs1994204	154827696	rs7447588	154845979	rs1647583	154865654
rs267009	154827762	rs2312979	154847058	rs2216934	154866155
rs1484279	154828899	rs2113799	154847484	rs1295224	154866655

Table 442 – LD Block 441 – Chromosome 5					
rs1647600, rs1295223, rs1295234, rs1148124 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1080156	154829493	rs2432922	154847787	rs1295223	154868336
rs267010	154830188	rs7733594	154849112	rs1295222	154868884

Table 443 – LD Block 442 – Chromosome 6					
rs2569835 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2251176	1489742	rs2873591	1490553	rs2745567	1491921
rs2317965	1490512	rs2569835	1491895	rs2493160	1492018

Table 444 – LD Block 443 – Chromosome 6					
rs199026 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs734749	23549821	rs926452	23550401	rs199027	23551401
rs926453	23550208	rs172004	23550806	rs199026	23551813
rs199029	23550244	rs12110495	23551326	rs7753047	23551857
rs199028	23550289				

Table 445 – LD Block 444 – Chromosome 6					
rs847785 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10807219	40075480	rs16892934	40108032	rs1524095	40153725
rs2475494	40076214	rs12199863	40110860	rs1404004	40155239
rs12196793	40076691	rs4714290	40111480	rs9369165	40156488
rs2475493	40076733	rs4714292	40111657	rs9369166	40156840
rs10807221	40077390	rs10947849	40112108	rs847769	40158149
rs2504087	40077627	rs9357316	40115500	rs2949019	40159178
rs3930595	40078009	rs9357317	40115529	rs847768	40159485
rs2092863	40079262	rs1158504	40115842	rs847766	40159684
rs1923465	40079354	rs2983138	40116443	rs9369167	40160157
rs910587	40080060	rs12528780	40116539	rs3008839	40160638
rs2475491	40081258	rs4714293	40117544	rs847784	40161250
rs2984433	40081423	rs2983139	40117642	rs847783	40161700
rs10807222	40082317	rs9367041	40118992	rs7743424	40161829
rs2475490	40083269	rs9394644	40119260	rs847781	40162038
rs1474870	40088337	rs1304602	40121449	rs1524088	40162163
rs2984431	40088878	rs9394645	40124109	rs847779	40163024
rs12197809	40089104	rs2983140	40125202	rs847778	40163112
rs1080882	40091673	rs16892960	40130282	rs847777	40163732
rs1114191	40091784	rs1923489	40131066	rs9367044	40164412

Table 445 – LD Block 444 – Chromosome 6					
rs847785 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1923461	40092648	rs847760	40131966	rs847775	40164509
rs3008833	40094281	rs1589742	40133901	rs1880231	40164989
rs4714285	40095293	rs9349135	40135035	rs1884363	40165352
rs911818	40096794	rs1022783	40135766	rs1524087	40165482
rs4714287	40096964	rs1554605	40136198	rs847774	40165654
rs761800	40098056	rs847757	40137160	rs995930	40165957
rs6912115	40099834	rs847755	40138356	rs1404002	40172578
rs6917453	40100364	rs2224119	40145120	rs9380932	40173231
rs10947847	40101475	rs1357657	40145944	rs10947854	40174494
rs9369156	40101703	rs1721408	40146378	rs847786	40174630
rs9380924	40102153	rs1007026	40147009	rs847785	40174655
rs10947848	40102477	rs10947851	40150192	rs3008841	40177414
rs6925661	40103041	rs847796	40151527	rs743062	40177632
rs719954	40104818	rs847797	40152702	rs9380933	40178198
rs9369159	40106831	rs2983143	40152828	rs847761	40180611
rs1546965	40107127	rs4714299	40153143	rs10807224	40180690
rs16892929	40108010				

Table 446 – LD Block 445 – Chromosome 6					
rs2802053, rs9453396 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7743160	66506058	rs2802053	66545563	rs2802041	66561767
rs2101561	66506231	rs9453403	66547777	rs2814130	66561953
rs2812767	66506754	rs13191280	66548446	rs2492642	66562352
rs9445576	66508630	rs6932397	66549115	rs10498833	66562781
rs1387803	66509140	rs1938085	66549332	rs10498834	66562861
rs12526256	66513163	rs9363443	66549926	rs9294657	66563723
rs9453394	66527024	rs11963106	66551368	rs9354301	66564107
rs9453396	66528601	rs2814122	66551397	rs1938105	66567647
rs4618505	66530351	rs2251342	66552831	rs9791223	66569237
rs9453400	66535201	rs2814124	66557147	rs13190868	66569421
rs9354299	66539649	rs10944842	66557856	rs2814111	66570972
rs2814117	66543280	rs9363444	66558277	rs9453406	66571024
rs12174928	66543394	rs9363445	66561535	rs10498835	66572761
rs2490123	66544957	rs7770190	66561636	rs16897203	66572913

Table 447 – LD Block 446 – Chromosome 6					
rs13204707, rs13216021 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13204707	68832431	rs3936209	68856121	rs13219267	68860788
rs9354665	68833034	rs4707839	68856959	rs9354671	68860939
rs9346116	68842249	rs7753361	68857216	rs2061117	68861088
rs4583946	68846122	rs9354670	68859897	rs9363853	68863022
rs7769871	68850863	rs13216021	68859923		

Table 448 – LD Block 447 – Chromosome 6					
rs3857501 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9353857	92345865	rs6911973	92373844	rs9345163	92388330
rs3857501	92348639	rs4349782	92374160	rs400754	92389480
rs4422588	92349344	rs9359954	92375315	rs2208434	92389757
rs4707680	92351092	rs6924085	92375810	rs7761838	92390413
rs4455634	92352256	rs4315987	92376375	rs1535336	92390771
rs10944547	92353558	rs9359956	92376835	rs1535335	92390968
rs12216388	92354061	rs4112305	92377721	rs6937044	92391771
rs4707681	92354259	rs9353860	92378064	rs1334624	92392528
rs1556623	92355501	rs7763733	92378383	rs4141509	92393904
rs1556622	92355641	rs4269350	92380386	rs12211588	92394128
rs1556621	92355817	rs4706398	92380609	rs1998218	92395155
rs6926708	92356727	rs4706399	92380927	rs2208433	92395423
rs4469261	92358052	rs1931819	92381194	rs1535334	92395924
rs6933600	92358144	rs7747274	92382428	rs9451739	92396918
rs2027114	92362060	rs9362897	92384167	rs9451740	92397248
rs9345161	92364069	rs1537609	92385940	rs387722	92397385
rs4574598	92364326	rs1537610	92386039	rs446949	92397445
rs7768123	92365091	rs6454868	92386620	rs1201867	92397523
rs1334634	92365603	rs6454869	92386732	rs407149	92398633
rs4461704	92367900	rs7744835	92386855	rs427118	92400922
rs9353859	92370700	rs1885085	92387235	rs1999644	92403662
rs2039500	92372946	rs10485101	92387323	rs17748618	92404250
rs4388265	92373215	rs7383250	92388129		

Table 449 – LD Block 448 – Chromosome 6					
rs11759974 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs536944	102144383	rs571628	102157250	rs596621	102162186
rs538768	102144575	rs685686	102157473	rs11970399	102162269
rs501476	102149426	rs543196	102158042	rs11759974	102162880

Table 449 – LD Block 448 – Chromosome 6					
rs11759974 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1415484	102149646	rs811643	102159360	rs9498641	102162975
rs9404120	102149979	rs509447	102159420	rs581633	102163163
rs705632	102150970	rs2224202	102160507	rs9498644	102163241
rs608729	102155197	rs2207956	102160783	rs9404125	102163517
rs11156144	102155227	rs611348	102161158	rs479206	102164210
rs9377284	102156866	rs609531	102161603	rs9498646	102164472
rs572487	102157181	rs541738	102161707		

Table 450 – LD Block 449 – Chromosome 6					
rs17076148 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9386161	146982009	rs17826169	146995607	rs9390408	147007849
rs9497581	146985749	rs957547	146999634	rs13205760	147008601
rs7746671	146986493	rs10457801	147002046	rs2876655	147008651
rs9497583	146989476	rs9322066	147002068	rs1885678	147008892
rs12180697	146990394	rs10457802	147002258	rs2876656	147009424
rs958749	146991789	rs9390405	147003248	rs7768539	147013541
rs17076148	146993793	rs9377012	147003794	rs912000	147013761
rs12154113	146994173	rs9322068	147004852	rs9403799	147013834
rs9390403	146994801	rs9399582	147005371	rs9390409	147013930
rs17076153	146994841				

Table 451 – LD Block 450 – Chromosome 6					
rs9497801 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9497800	147897179	rs4896923	147899212	rs9403860	147901099
rs9497801	147898205	rs7743767	147899303	rs2092447	147901341

Table 452 – LD Block 451 – Chromosome 6					
rs558044 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1900300	149683320	rs12181518	149708941	rs9498342	149742635
rs10214840	149685402	rs570442	149708953	rs12191079	149743162
rs474369	149685655	rs527971	149709905	rs12204461	149743228
rs11155640	149686477	rs492956	149710220	rs2341784	149745614
rs577001	149688001	rs472810	149711272	rs7742990	149746219
rs4895787	149688193	rs548083	149711686	rs11155647	149747328
rs532250	149688214	rs556335	149712571	rs9373589	149748981
rs558044	149688793	rs521845	149713391	rs2341783	149749344

Table 452 – LD Block 451 – Chromosome 6					
rs558044 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs562428	149689218	rs6922130	149714068	rs9390677	149752190
rs540538	149689637	rs504762	149714358	rs237035	149752541
rs480526	149690074	rs505765	149714498	rs9404034	149753676
rs514839	149690133	rs567816	149715284	rs2789500	149754783
rs511105	149690592	rs515133	149716965	rs7349921	149755556
rs6932778	149691122	rs6920383	149719190	rs237033	149755842
rs12181821	149691637	rs11155645	149722885	rs2789490	149756012
rs478767	149691793	rs506268	149727310	rs2744427	149756483
rs536203	149692957	rs13219868	149728211	rs237032	149757865
rs12211357	149693977	rs6911411	149729783	rs6570965	149759169
rs559052	149695485	rs500860	149729889	rs237028	149760343
rs580499	149695521	rs9498332	149730319	rs237027	149761596
rs11155642	149695813	rs9498333	149731025	rs763590	149761660
rs501926	149696641	rs565825	149732418	rs237026	149762374
rs506573	149697166	rs6570963	149733048	rs17506789	149762539
rs9498322	149698779	rs538386	149733295	rs600739	149762717
rs9498323	149698906	rs6570964	149733552	rs237025	149763383
rs11964335	149699794	rs511100	149733922	rs663625	149764455
rs483877	149699811	rs9285519	149734628	rs2789488	149766983
rs506779	149700487	rs9285520	149734830	rs805026	149769947
rs504985	149700671	rs9322178	149734960	rs237012	149770891
rs12204793	149702931	rs9498335	149735477	rs652921	149772539
rs494340	149704642	rs9498336	149737037	rs7896	149773169
rs6942381	149704684	rs1980774	149737859	rs2744434	149773597
rs484969	149706522	rs9498337	149738799	rs389996	149775063
rs537354	149707630	rs9498338	149739257	rs365469	149775941
rs997682	149708313	rs9390676	149739453	rs4897117	149776077
rs560051	149708670	rs3734296	149742184	rs12196750	149776164
rs9498325	149708822	rs9498341	149742566	rs366905	149776790
rs425540	149777048	rs9485389	149782907	rs2143075	149788336
rs480778	149777082	rs236998	149783514	rs9404037	149788718
rs480034	149777123	rs236997	149783700	rs2789492	149789072
rs11155652	149780678	rs12110948	149784440	rs4895788	149789784
rs12209364	149780891	rs2744432	149785564	rs674919	149790104
rs236999	149781068	rs237018	149785623	rs237004	149792027
rs9498348	149781181	rs12207047	149786325	rs9377218	149792132
rs9322179	149781493	rs2143076	149788144	rs585022	149794997
rs513923	149782364	rs2744431	149788326		

Table 453 – LD Block 452 – Chromosome 7					
rs10254690 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4721900	2636113	rs10254690	2639814	rs12700196	2644218
rs12670408	2639498	rs1105421	2642188	rs4721904	2645557
rs10950803	2639592				

Table 454 – LD Block 453 – Chromosome 7					
rs4610629, rs17143625, LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7811627	20990150	rs4610629	20996157	rs10156011	21000395
rs17676127	20990319	rs2390407	20996264	rs3810892	21003571
rs13340545	20992524	rs17676368	20997033	rs6947794	21005325
rs17143625	20992683	rs10499521	20998312	rs13228761	21006960
rs17676175	20993188	rs6957001	20998493	rs2192056	21012204
rs2390412	20993605	rs4598145	20998880	rs4281024	21014058
rs11975932	20994043	rs12113935	20999063	rs17143675	21017084
rs10245794	20994131	rs6943888	20999189	rs2215679	21017567
rs10499519	20994618	rs6944042	20999292	rs1860872	21019028

Table 455 – LD Block 454 – Chromosome 7					
rs433395 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs274054	23356992	rs274065	23366106	rs274045	23376257
rs274055	23357477	rs11983775	23366948	rs274044	23376661
rs274056	23357870	rs450096	23368202	rs274043	23376711
rs274057	23357971	rs433395	23368480	rs166665	23378323
rs274059	23358164	rs2615691	23368629	rs274041	23379005
rs200717	23358796	rs10255155	23368672	rs7808331	23380214
rs274060	23358861	rs10229956	23369461	rs274040	23380884
rs274061	23361172	rs17148073	23373820	rs6461708	23381842
rs274063	23364360				

Table 456 – LD Block 455 – Chromosome 7					
rs962059 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs962060	31361662	rs7812214	31362003	rs962059	31362074

Table 457 – LD Block 456 – Chromosome 7					
rs2074755 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2240466	72494205	rs13244268	72549779	rs13232120	72621246
rs1178979	72494366	rs2353082	72551104	rs14415	72622716
rs1178977	72494985	rs17145721	72572016	rs2286276	72625290
rs2237279	72499785	rs7811265	72572446	rs11974409	72627326
rs13231516	72501185	rs11983997	72577180	rs1051921	72645879
rs714052	72502805	rs17145732	72608204	rs11760752	72660998
rs2074755	72515102	rs13233571	72609167	rs17145750	72664314
rs12056034	72516581	rs3763432	72612805	rs7798357	72670201
rs6976930	72523746	rs12539316	72615834	rs7785479	72670771
rs2074754	72529690	rs17145738	72620810	rs7800944	72673793
rs17145713	72542746				

Table 458 – LD Block 457 – Chromosome 7					
rs2107396, rs976328, rs1509913 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2107396	80705505	rs1509918	80706582	rs12533843	80709252
rs17535787	80705899	rs17154966	80707591	rs7803017	80709474
rs17154957	80705912	rs12531400	80708564	rs976328	80711534
rs17535870	80706209	rs6965375	80708706	rs1509913	80712158
rs1509919	80706463				

Table 459 – LD Block 458 – Chromosome 7					
rs161837, rs161843, rs161848 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10254060	80717375	rs161843	80732898	rs4732237	80763584
rs325972	80718905	rs161848	80736031	rs2057776	80764898
rs325974	80719587	rs245419	80737512	rs2886992	80769323
rs325975	80719709	rs245422	80738982	rs4732238	80770708
rs12707314	80721934	rs245433	80748265	rs17626401	80771165
rs4732211	80722268	rs245434	80748324	rs6943816	80772108
rs161828	80724433	rs245436	80750351	rs6962364	80772178
rs161837	80727157	rs245442	80755084	rs995353	80772570
rs4732219	80727999	rs10954564	80759125	rs1012951	80774676
rs162137	80731398	rs2367489	80762151	rs6948864	80775203

Table 460 – LD Block 459 – Chromosome 7					
rs7777183 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2471182	122100045	rs9640810	122117878	rs3919525	122146586

Table 460 – LD Block 459 – Chromosome 7					
rs7777183 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1968147	122103828	rs2080045	122118727	rs17144752	122146928
rs7777183	122103868	rs1860859	122120404	rs7797250	122148449
rs1968146	122103889	rs12154838	122122588	rs7794272	122152705
rs4140960	122104514	rs17144731	122123651	rs6948815	122153732
rs2430028	122108911	rs6466831	122124914	rs2159824	122154585
rs10487754	122111623	rs6466832	122128385	rs17144754	122155630
rs12538550	122114977	rs6466836	122142762	rs12537488	122155853
rs12668965	122115986				

Table 461 – LD Block 460 – Chromosome 8					
rs13271017 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13271017	13783440	rs7830372	13784404	rs10103109	13784865

Table 462 – LD Block 461 – Chromosome 8					
rs6557971 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12334593	26900210	rs7006436	26909127	rs6557971	26914907
rs11774897	26902164	rs6981822	26909163	rs6985204	26914970
rs7459975	26902341	rs7386953	26911239	rs10096027	26915647
rs7463901	26902510	rs2322392	26911854	rs10086525	26917619
rs7463300	26902597	rs6557970	26912020	rs1996396	26918290
rs4733014	26903486	rs4518677	26912400	rs7002284	26918492
rs6557965	26903661	rs4344087	26912497	rs11135970	26919513
rs4733015	26904468	rs4344088	26912518	rs11997461	26919554
rs4733017	26904565	rs10097952	26912879	rs11994515	26919717
rs4733018	26904706	rs9314331	26913212	rs6994580	26919853
rs11778479	26905083	rs7842266	26913610	rs7013745	26920246
rs6557966	26905738	rs10100835	26913699	rs9314332	26920885
rs10503804	26905892	rs7834160	26913875	rs7005122	26921492
rs17346659	26905938	rs6980493	26914356		

Table 463 – LD Block 462 – Chromosome 8					
rs6993559 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7006674	31695426	rs6993559	31695557		

Table 464 – LD Block 463 – Chromosome 8					
rs7003184, rs11775125, rs10954811 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs13260061	31704542	rs4521723	31711547	rs11775125	31714461
rs10954811	31705995	rs7003184	31713684		

Table 465 – LD Block 464 – Chromosome 8					
rs10104297 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16878273	31756106	rs10113285	31760614	rs1354336	31764413
rs9642723	31756288	rs12544684	31761325	rs7830159	31764570
rs17602316	31756364	rs17602564	31761530	rs1546326	31764724
rs1503490	31757871	rs13257468	31761574	rs10104297	31764867
rs13279876	31758532	rs1503491	31761648	rs13260677	31765166
rs4733098	31759437	rs7820929	31762352	rs16878286	31765718
rs1354335	31760521				

Table 466 – LD Block 465 – Chromosome 8					
rs4733275 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2202262	31765885	rs4733274	31768513	rs1965365	31769622
rs2881272	31766011	rs4733275	31768611	rs2221349	31770151

Table 467 – LD Block 466 – Chromosome 8					
rs1503487 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4504593	31808637	rs1503487			

Table 468 – LD Block 467 – Chromosome 8					
rs369828, rs435904, rs419874; rs35240565; rs367830 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1699127	31906254	rs1016165	31944097	rs327329	31973040
rs435904	31908643	rs1023911	31944674	rs16878644	31973357
rs369828	31908966	rs1023910	31945028	rs6983358	31974414
rs418362	31908993	rs1564127	31945249	rs983944	31976894
rs419874	31911163	rs922353	31945610	rs1462875	31979736
rs4373486	31911227	rs1462878	31945845	rs327334	31980218
rs327342	31912997	rs4147430	31947018	rs327335	31980545
rs1462872	31913651	rs1462891	31950475	rs11782798	31981720
rs16878500	31921060	rs1462892	31950538	rs4147431	31981885
rs327357	31921141	rs1462893	31950557	rs327338	31982016

Table 468 – LD Block 467 – Chromosome 8					
rs369828, rs435904, rs419874; rs35240565; rs367830 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs733230	31922124	rs7815849	31952990	rs1993814	31982884
rs327359	31923000	rs11779889	31955071	rs327341	31983706
rs7002063	31923076	rs13282758	31955162	rs1481623	31985452
rs327363	31924595	rs13276200	31955371	rs2929484	31985621
rs9649887	31925100	rs2219978	31958071	rs327325	31988398
rs393820	31927105	rs1462894	31959018	rs384536	31991000
SNP_A-1922204	31927636	rs1462895	31959649	rs10954818	31995681
rs35240565	31927661	rs11783942	31960246	rs1947735	31998295
rs367830	31928146	rs327370	31962199	rs13275646	32000779
rs371771	31929087	rs2346374	31963061	rs16878670	32000806
rs449951	31930190	rs900072	31965273	rs7827456	32008036
rs1676459	31930520	rs755657	31965542	rs2199538	32009358
rs12550308	31933352	rs2010243	31965922	rs1841804	32013661
rs2200033	31935212	rs7835626	31966614	rs1824676	32014116
rs10808315	31936186	rs372373	31967081	rs11992455	32018391
rs10808317	31936288	rs1462887	31967334	rs10954821	32018532
rs327405	31937783	rs7465523	31968910	rs737026	32018806
rs9649893	31942894	rs1462874	31970877	rs1599676	32022947

Table 469 – LD Block 468 – Chromosome 8					
rs16938028 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2701449	73170538	rs17815050	73180134	rs4738209	73191724
rs1443942	73171160	rs13278765	73181454	rs4467976	73193049
rs1838285	73171725	rs16938028	73182493	rs6472663	73193493
rs2701445	73171999	rs10504530	73182877	rs7815632	73194043
rs2587578	73172159	rs9298202	73184511	rs2375	73196544
rs2587579	73172373	rs11784301	73185007	rs4614034	73197756
rs2587580	73173101	rs16938030	73185849	rs16938049	73198208
rs2701441	73174272	rs16938034	73189518	rs16938050	73198241
rs2701440	73175388	rs13254520	73189833	rs6988179	73198323
rs2701439	73175604	rs9650241	73189978	rs12542180	73199597
rs2701438	73175792	rs16938036	73190122	rs11775093	73200864
rs7823587	73178092	rs4738207	73191306	rs7013415	73201005
rs2587581	73178304	rs4738208	73191692		

Table 470 – LD Block 469 – Chromosome 8					
rs276648 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7842978	73217922	rs7017623	73251347	rs1482128	73273224
rs7826837	73217942	rs7017956	73251525	rs16938107	73273331
rs4395928	73218257	rs994164	73252189	rs13250435	73273827
rs4263813	73218409	rs994165	73252275	rs13250236	73273920
rs12335335	73218653	rs13251057	73252615	rs7822093	73274816
rs12334504	73218685	rs7010938	73253607	rs2128199	73275239
rs4415362	73219239	rs6991275	73253922	rs1825172	73275555
rs10504533	73221320	rs4738216	73253960	rs7014195	73275655
rs11987358	73221454	rs4737344	73254034	rs1961391	73275673
rs11987440	73221546	rs7461960	73254380	rs7818339	73277582
rs6984922	73222030	rs4361799	73254493	rs1842718	73278449
rs6984682	73222119	rs4738217	73254861	rs1482126	73278756
rs7846302	73228579	rs1871877	73254988	rs17823009	73279011
rs4467977	73228721	rs10283081	73255688	rs1482125	73279283
rs4621854	73228752	rs7013179	73257986	rs6989907	73283030
rs4574889	73228899	rs6999268	73258252	rs10504534	73285243
rs5014592	73228939	rs4738223	73266085	rs10112844	73285521
rs4236993	73228996	rs2128202	73266399	rs7001766	73285827
rs4610798	73229268	rs2128201	73266402	rs7002197	73285881
rs4384019	73229632	rs2170472	73266534	rs11775469	73287351
rs4363243	73230236	rs10107847	73266761	rs959565	73287815
rs4421392	73230274	rs7014898	73266961	rs3736142	73288067
rs7839075	73232151	rs6472672	73267469	rs1982702	73288200
rs10092115	73232753	rs12682371	73267996	rs11776534	73288670
rs4737343	73233213	rs12674647	73268025	rs2626030	73289787
rs11994034	73233289	rs4738224	73268865	rs276644	73291708
rs4595164	73235710	rs1963982	73269470	rs4645599	73292477
rs13265920	73236041	rs1031991	73269527	rs276646	73292543
rs13261361	73239346	rs1031990	73269991	rs17750497	73292887
rs10957585	73241631	rs1482129	73270115	rs3867432	73295315
rs4738213	73243726	rs9298203	73270276	rs276647	73295504
rs4738214	73244062	rs10089157	73270422	rs276648	73295900
rs4320594	73244685	rs1031989	73270700	rs276649	73296875
rs13270429	73245291	rs716498	73271750	rs276650	73299514
rs12678066	73249650	rs12114151	73271779	rs1384155	73303520
rs2007213	73250279	rs727599	73272097	rs276661	73304098
rs7017477	73251243	rs2014899	73272423	rs276660	73304269
rs12541758	73304936	rs276653	73309167	rs11778612	73313759
rs276656	73305620	rs276652	73309200	rs10109245	73314868
rs6987121	73307948	rs6989765	73313045	rs4559286	73315391
rs3736140	73309022	rs17751056	73313335		

Table 471 – LD Block 470 – Chromosome 8					
rs7843034 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2289011	120826189	rs10101278	120866220	rs2634	120901290
rs10086913	120829091	rs7821501	120867036	rs17818440	120902071
rs7837213	120831880	rs1976575	120870039	rs4871648	120903570
rs16893101	120832090	rs7837589	120870822	rs1355174	120904624
rs13270831	120836492	rs6469846	120870986	rs7815389	120908320
rs16893113	120837868	rs9297605	120872818	rs6989559	120909877
rs2326377	120838117	rs11996390	120872835	rs6989803	120909903
rs17217893	120838396	rs6999808	120874073	rs6994085	120910216
rs9693207	120841236	rs7017010	120877752	rs12707880	120910472
rs10096846	120842305	rs17818097	120879701	rs10108071	120910504
rs2326378	120845776	rs7839110	120879805	rs10108101	120910590
rs16893140	120848428	rs7813438	120883201	rs7828086	120912956
rs4871577	120848972	rs7832755	120883747	rs17818842	120913963
rs4871578	120849036	rs9297606	120883963	rs16893214	120914216
rs7009073	120851098	rs4871629	120885191	rs14027	120915770
rs7843034	120852044	rs7829198	120886780	rs1055133	120916259
rs10110601	120856287	rs7833490	120887207	rs1055131	120916304
rs1433951	120858783	rs4871634	120887664	rs1055130	120916369
rs1567359	120859799	rs4871635	120888738	rs2063284	120917103
rs1567358	120860039	rs2063283	120889758	rs7833112	120917263
rs4871595	120860607	rs6996373	120891278	rs7813651	120920540
rs2043430	120861162	rs9650078	120892362	rs7813680	120920586
rs6469845	120861376	rs6989791	120893538	rs3812463	120921281
rs7827811	120861723	rs7012857	120894406	rs6469849	120926350
rs7002501	120862477	rs7827482	120898919	rs13272214	120928720
rs953614	120863902	rs10109951	120898940	rs7017279	120929001
rs13268676	120864788	rs4871642	120900234	rs6469852	120929916
rs12543087	120865628	rs7003687	120901037	rs6469853	120930994

Table 472 – LD Block 471 – Chromosome 9					
rs10511478 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10511477	7503589	rs10511478	7504442		

Table 473 – LD Block 472 – Chromosome 9					
rs17391260 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7865556	36841183	rs6476588	36841754	rs4326460	36842685

Table 473 – LD Block 472 – Chromosome 9					
rs17391260 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7852051	36841358	rs17391260	36842316	rs4510947	36844541

Table 474 – LD Block 473 – Chromosome 9					
rs10123219 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2309969	73312984	rs3739780	73333638	rs10512003	73343749
rs4521827	73314049	rs1935339	73336275	rs10512002	73343814
rs2309970	73314218	rs7871353	73336968	rs2309975	73344530
rs7856596	73317599	rs11142871	73338725	rs7859367	73345041
rs1935341	73317823	rs11142872	73340397	rs17056968	73345792
rs11142860	73319142	rs11793176	73340462	rs10512001	73345941
rs11142861	73319682	rs11795210	73340514	rs10512000	73345993
rs10869031	73320106	rs17056952	73341612	rs10123219	73346489
rs11793279	73321424	rs11142873	73341626	rs12336883	73346993
rs11791187	73321478	rs2309972	73342053	rs10124132	73347818
rs11142862	73324842	rs7848003	73342174	rs10869032	73348441
rs11142863	73325288	rs2309973	73342397	rs7042172	73348461
rs11142864	73325468	rs2309974	73342429	rs17056975	73348682
rs11791628	73325914	rs10115977	73342833	rs7857278	73349347
rs11142865	73326747	rs17538189	73342904	rs10781026	73350927
rs11142868	73328574	rs10118185	73343131	rs10781027	73350985
rs7048238	73331400	rs10115419	73343204	rs10118407	73351363

Table 475 – LD Block 474 – Chromosome 9					
rs4279668, rs10869042, rs10869041, rs1536864 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7043834	73366672	rs11142892	73371554	rs1360142	73382994
rs1962244	73366932	rs12552904	73373291	rs7036320	73383442
rs11142888	73367432	rs4279668	73374683	rs12553760	73383542
rs11142889	73367998	rs4475567	73374766	rs12553761	73383554
rs17057025	73368196	rs10869038	73376056	rs1410983	73383953
rs10124877	73369654	rs4606122	73376130	rs11142897	73384614
rs10869035	73370329	rs4475568	73376380	rs1536864	73387245
rs10869036	73370351	rs2309990	73379799	rs10869041	73387513
rs10869037	73370610	rs11142895	73382412	rs10869042	73387559

Table 476 – LD Block 475 – Chromosome 9					
rs7854198, rs7862155, rs1825279 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10780330	81647070	rs12342683	81652702	rs7042628	81661057
rs7035737	81647218	rs7858020	81652778	rs7045804	81661297
rs11138373	81647313	rs7858845	81653178	rs11138383	81661622
rs11138375	81648723	rs7862155	81653548	rs6559507	81662402
rs1825279	81650978	rs17801563	81653626	rs11138384	81662484
rs7854198	81651735	rs10512094	81655403	rs12551975	81662611
rs7854207	81651748	rs10867430	81655632	rs11138385	81663327
rs7869515	81651795				

Table 477 – LD Block 476 – Chromosome 10					
rs12248346 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12416235	12725029	rs1004247	12726493	rs7101243	12731279
rs7098099	12725385	rs7921813	12731061	rs12248346	12731450

Table 478 – LD Block 477 – Chromosome 10					
rs827287 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1038524	72376016	rs827287	72378282	rs827284	72383258
rs880314	72376713	rs7083431	72381162	rs7093802	72383564

Table 479 – LD Block 478 – Chromosome 10					
rs7076174 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10887513	87404537	rs7072620	87422511	rs7912617	87436336
rs11201721	87405743	rs4547037	87424453	rs7081304	87437032
rs7072722	87405879	rs12255557	87426328	rs2351822	87438277
rs10788462	87408436	rs7097151	87427906	rs10887518	87440836
rs11201723	87412659	rs7076174	87427975	rs4488140	87445663
rs7080323	87419694	rs2928011	87429631	rs10749528	87450964
rs7097275	87420069	rs7919376	87433100	rs11201743	87458225
rs7097285	87420101	rs9663200	87434602	rs7914829	87459028
rs10887514	87421528				

Table 480 – LD Block 479 – Chromosome 10					
rs11018288 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2386914	129384729	rs4751476	129390908	rs10830172	129416613

Table 480 – LD Block 479 – Chromosome 10					
rs11018288 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6482946	129384882	rs7919990	129392388	rs1887013	129416932
rs7071707	129385611	rs7083606	129409122	rs1887012	129416983
rs7071873	129385741	rs11018288	129416118	rs1887011	129417002
rs2386916	129386540	rs5002823	129416595	rs2840332	129417129
rs7910062	129389624				

Table 481 – LD Block 480 – Chromosome 11					
rs4564353, rs3948853 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4564353	127931094	rs4936058	127947844	rs7125213	127956490
rs3948853	127938529	rs7935676	127948293	rs11221365	127959038
rs2156696	127939367	rs12366158	127948767	rs6590337	127959067
rs1944850	127940313	rs11221356	127949043	rs11221367	127959599
rs7102538	127940785	rs11221357	127949221	rs6590339	127961562
rs11221351	127941479	rs11221358	127950185	rs11221369	127962109
rs7117932	127942163	rs11221359	127950410	rs11221371	127964320
rs1317489	127942665	rs7943782	127950480	rs2156695	127964938
rs12797048	127943533	rs7126621	127951397	rs11221377	127965764
rs7944145	127943635	rs11221360	127952187	rs10893891	127966740
rs10893887	127945727	rs4937353	127952973	rs12577414	127969449
rs10790963	127945856	rs11221362	127955429	rs2213018	127972059
rs7928282	127946707	rs1944854	127955671	rs4937357	127972720
rs4937352	127947569				

Table 482 – LD Block 481 – Chromosome 12					
rs2769432 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11830614	94326918	rs7973687	94329087	rs12809883	94330974
rs17024165	94327086	rs2769436	94329183	rs11833759	94331166
rs12830853	94327185	rs7973850	94329378	rs12828041	94331992
rs2658728	94327614	rs11833092	94330220	rs12828558	94332040
rs2769431	94328089	rs11833126	94330371	rs12828313	94332230
rs2769432	94328136	rs11833183	94330511	rs12309032	94332841
rs2456549	94328322				

Table 483 – LD Block 482 – Chromosome 12					
rs2769475 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs188524	94333794	rs10777695	94342364	rs183978	94347454

Table 483 – LD Block 482 – Chromosome 12					
rs2769475 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs301016	94336737	rs7975291	94345006	rs2769475	94347837
rs301015	94338134	rs9634217	94347362		

Table 484 – LD Block 483 – Chromosome 12					
rs10846753 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs10846748	123884262	rs7954519	123886108	rs4765624	123887152
rs10846749	123884401	rs4765621	123886668	rs10846753	123887414
rs4765180	123884725	rs4765622	123886781	rs12582221	123889193
rs10846751	123885724	rs4765623	123886803		

Table 485 – LD Block 484 – Chromosome 13					
rs9578030 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9578032	30297111	rs4769894	30302315	rs9604622	30313170
rs9578030	30297506	rs9579658	30303059	rs1125434	30325259
rs17692777	30299323	rs3922904	30303422	rs9569027	30325866
rs12870835	30299362	rs9508846	30306076	rs213587	30327657
rs12876893	30300831	rs9285081	30307565	rs1831549	30328486
rs9506356	30301677	rs7328020	30310128	rs213584	30329275
rs12863390	30301787				

Table 486 – LD Block 485 – Chromosome 13					
rs7326514 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8001889	64561369	rs11619164	64588753	rs3892177	64623113
rs9571322	64562217	rs9528890	64589394	rs9592402	64625676
rs7326514	64562776	rs17067365	64592135	rs4344607	64627874
rs4144449	64563024	rs946091	64592782	rs13378243	64628230
rs9540353	64564421	rs7319923	64597274	rs9528894	64631444
rs4562950	64569682	rs9598954	64597850	rs7999727	64640150
rs4306397	64571707	rs9317484	64599644	rs7995814	64642893
rs9598951	64572338	rs1338177	64601973	rs778439	64643301
rs9571323	64573809	rs7995857	64608231	rs2324776	64644183
rs9571324	64573976	rs4526902	64612784	rs7991927	64644365
rs1415956	64574343	rs7323443	64618986	rs1347207	64644534
rs1582135	64575032	rs9592401	64620285	rs7988138	64647323
rs9540357	64584459	rs9317485	64620562	rs2787627	64647435
rs10161776	64588009				

Table 487 – LD Block 486 – Chromosome 13					
rs1570541 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1570539	74972635	rs6562896	74973931	rs6562898	74974369
rs1570541	74972866	rs6562897	74974294	rs4242961	74975909
rs7318786	74973598				

Table 488 – LD Block 487 – Chromosome 13					
rs1359660, rs1326451, rs7139992 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1831009	104311023	rs1409468	104325095	rs7996720	104331992
rs9586656	104313696	rs9519502	104326075	rs4772651	104332295
rs1853980	104314074	rs4772648	104327325	rs9519503	104332552
rs9514327	104314383	rs4772649	104327335	rs12866587	104334642
rs4771485	104318071	rs9300973	104327533	rs16965568	104336854
rs1409477	104318220	rs1359660	104327958	rs16965575	104338002
rs1326453	104318746	rs1326451	104328059	rs9519507	104338810
rs3916951	104319736	rs9555109	104328557	rs1409467	104340015
rs7988576	104321667	rs12583532	104328958	rs12561468	104340355
rs2031638	104321812	rs4772650	104329192	rs9519508	104340491
rs1887114	104322644	rs1326450	104330241	rs9582914	104340638
rs2225049	104322697	rs1590589	104331665	rs10508151	104340890
rs4349014	104322773	rs12870222	104331936	rs7139992	104341410
rs4291786	104324043				

Table 489 – LD Block 488 – Chromosome 13					
rs2251837 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4772727	105432688	rs2251829	105435091	rs2478283	105437745
rs477122	105433180	rs2478289	105435276	rs2251500	105437789
rs2252003	105433352	rs2478288	105435429	rs2251499	105437857
rs2478294	105433632	rs1924401	105436211	rs2476740	105438155
rs2478293	105433641	rs1924402	105436273	rs2265097	105438635
rs9587048	105433770	rs2476737	105436601	rs2476743	105439123
rs2476734	105434015	rs2478287	105436673	rs7325465	105439540
rs2478292	105434057	rs2478286	105436740	rs7326317	105439913
rs2478291	105434341	rs4772728	105436808	rs2476746	105440160
rs2478290	105434421	rs2478285	105436825	rs9587050	105440310
rs2476736	105434937	rs2478284	105437635	rs2248399	105440474
rs2251837	105434982				

Table 490 – LD Block 489 – Chromosome 14					
rs2747105 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1955629	57539871	rs11158190	57542594	rs3783689	57548743
rs2747104	57540156	rs12889802	57543711	rs3783690	57548908
rs1955630	57540277	rs8004714	57544781	rs12884342	57549452
rs2747105	57540518	rs11626754	57546143	rs11621819	57549606
rs2747106	57540752	rs8017546	57546972	rs17734750	57551196
rs2256270	57541042	rs17094208	57547077	rs17094212	57551545
rs17807721	57541102	rs8016701	57547287	rs1955633	57552970
rs2295139	57541108	rs11629246	57547923	rs1955634	57555964
rs727203	57541452	rs3783687	57548694	rs17093271	57556410

Table 491 – LD Block 490 – Chromosome 14					
rs2262779 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1254839	61490359	rs7143796	61500609	rs2353246	61503980
rs2262779	61499495				

Table 492 – LD Block 491 – Chromosome 14					
rs23219 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs23219	71464976	rs3784058	71482557	rs714975	71486516
rs2239270	71467701	rs17768231	71483298	rs12891745	71488074
rs36318	71479105	rs2238285	71483581	rs12433721	71488231
rs2109268	71481608	rs17093750	71484557	rs17768243	71488835
rs2159457	71481829	rs11158920	71485564	rs2238284	71489574
rs12897929	71481959	rs2190864	71485972		

Table 493 – LD Block 492 – Chromosome 14					
rs12586968, rs12885938, rs12586947 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17105566	71534955	rs10483838	71538250	rs11628133	71541383
rs8013467	71535332	rs2238268	71538760	rs17105690	71541937
rs699358	71535722	rs11623376	71538946	rs12897386	71542016
rs11158927	71535902	rs2239268	71539344	rs12148043	71542180
rs1009017	71536038	rs2239267	71539462	rs12883063	71542983
rs17105606	71536689	rs2332706	71539830	rs8008678	71543408
rs2238272	71537384	rs4902969	71540013	rs6574037	71545106
rs12884202	71537889	rs12885938	71540089	rs4048388	71545151
rs12884483	71537902	rs2190871	71540861	rs2215132	71545542
rs12586968	71538158	rs4902972	71541027	rs12892100	71547787

Table 493 – LD Block 492 – Chromosome 14					
rs12586968, rs12885938, rs12586947 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12586947	71538177				

Table 494 – LD Block 493 – Chromosome 14					
rs17120302 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12882805	72268089	rs17120199	72276082	rs17780783	72289422
rs6574094	72268259	rs7148199	72277596	rs3742836	72289773
rs10146959	72268891	rs1990439	72278495	rs3742835	72289906
rs11626411	72269969	rs10140037	72281571	rs17120302	72292863
rs4899440	72270289	rs8007249	72282070	rs2191823	72295435
rs10144553	72270600	rs1990438	72282953	rs11158976	72300031
rs11627799	72271658	rs1990437	72283361	rs11846755	72301356
rs11851733	72272127	rs10146484	72283567	rs12147487	72305813
rs10140317	72272630	rs1160094	72286670	rs2052146	72306972
rs4899441	72273406	rs10136771	72287517	rs10220553	72307208
rs8023156	72275923	rs10139903	72288577		

Table 495 – LD Block 494 – Chromosome 14					
rs11623932, rs11623980, rs17826032, rs17091042 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17090997	94056665	rs1951206	94071842	rs17091039	94079196
rs17091005	94058160	rs1951207	94072108	rs12147396	94080094
rs1078419	94059670	rs11622383	94073619	rs17091042	94081460
rs1957039	94061753	rs4900236	94074906	rs17826032	94081666
rs7155467	94061868	rs746386	94076679	rs11626712	94081881
rs7141073	94063497	rs11627018	94076721	rs11160190	94082137
rs4905214	94067248	rs8013001	94077049	rs11623892	94083017
rs11623980	94069542	rs11623139	94077410	rs11628098	94083118
rs4905216	94070713	rs10135681	94077497	rs11623932	94083138
rs12434114	94071680	rs7156546	94078129		

Table 496 – LD Block 495 – Chromosome 15					
rs12905793, rs6494101 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7183561	57410868	rs17236585	57431085	rs16941369	57441896
rs11854697	57413129	rs11858264	57431136	rs6494101	57442824
rs11637840	57413223	rs11858313	57431306	rs6494102	57442870
rs8039327	57417515	rs7162228	57432367	rs7178041	57448696
rs8041804	57423290	rs12911676	57434283	rs4775158	57448881

Table 496 – LD Block 495 – Chromosome 15					
rs12905793, rs6494101 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12905793	57424643	rs8024396	57435925	rs6494105	57454284
rs12593355	57428467	rs965929	57438430	rs10851653	57454979
rs8025242	57429016	rs11632346	57439241		

Table 497 – LD Block 496 – Chromosome 15					
rs8032989 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1553107	60888291	rs1969035	60890986	rs937425	60892195
rs1553106	60890871	rs8032989	60891649		

Table 498 – LD Block 497 – Chromosome 15					
rs907552 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7181395	68456257	rs907553	68457586	rs907552	68457742
rs12910190	68457340				

Table 499 – LD Block 498 – Chromosome 16					
rs1558561, rs1558560 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7198389	5001488	rs1558561	5001949	rs1558560	5001972
rs1558562	5001884				

Table 500 – LD Block 499 – Chromosome 16					
rs1019142, rs3785216 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17687532	7650307	rs10521085	7652322	rs8047531	7653791
rs8049985	7650408	rs1019142	7652980	rs17144513	7653924
rs758490	7651796	rs3785217	7653117	rs4787055	7654294
rs17135053	7651897	rs3785216	7653352	rs8044409	7655578
rs17760312	7651989				

5

Table 501 – LD Block 500 – Chromosome 16					
rs1423086 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4787379	26465207	rs1895385	26469379	rs13330489	26471108
rs11863159	26467113	rs237195	26470804	rs237197	26471532
rs1423086	26467802	rs237196	26470864	rs1363765	26472481

Table 501 – LD Block 500 – Chromosome 16					
rs1423086 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16975995	26467949				

Table 502 – LD Block 501 – Chromosome 16					
rs3784901 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs3784900	56513317	rs12927214	56514717	rs3784901	56515660
rs247064	56513694				

Table 503 – LD Block 502 – Chromosome 16					
rs17248982, rs6498806 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs8048207	60335596	rs17248968	60342520	rs11639560	60345970
rs4131786	60338059	rs17248975	60342581	rs7202312	60349782
rs4494526	60338107	rs6498806	60344027	rs4567699	60350164
rs10500454	60339754	rs17248982	60344326	rs7187701	60350965
rs7206338	60341075	rs8061672	60344628	rs9936272	60352339
rs17822810	60341749	rs7187101	60345467	rs8057630	60352972
rs17248961	60342351				

Table 504 – LD Block 503 – Chromosome 17					
rs11653900 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs9897443	67728761	rs11653900	67733339	rs11869743	67736726
rs9898179	67729080	rs11077597	67734083	rs1304660	67738004
rs17246350	67730343	rs2343202	67734195	rs1468474	67740439
rs12453763	67732350	rs9902198	67734323	rs9905898	67740807
rs2159008	67732688	rs6416836	67735809		

Table 505 – LD Block 504 – Chromosome 18					
rs2542151 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2847265	12763553	rs2542151	12769947	rs2542153	12773898
rs1941075	12764848	rs2542152	12772761	rs2542157	12777247
rs888271	12764981	rs6505765	12772849	rs2542160	12779246
rs7237147	12767815				

5

Table 506 – LD Block 505 – Chromosome 18					
rs17594665 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1348047	51201056	rs1020169	51217077	rs1440477	51237453
rs1788019	51201521	rs7235757	51218952	rs2958166	51238630
rs9950000	51203167	rs2958178	51220970	rs12103957	51240076
rs9958125	51204583	rs2958171	51223830	rs2958169	51240136
rs9320010	51204895	rs2958175	51225956	rs11877936	51242410
rs3794891	51206210	rs10503001	51226694	rs4374254	51243545
rs17594526	51209236	rs17089789	51227330	rs8096211	51245567
rs12607679	51210746	rs2958186	51228793	rs7227418	51246419
rs3794889	51212935	rs2958162	51234863	rs9320016	51246469
rs4801149	51214227	rs2919451	51235298	rs4524013	51247706
rs17594665	51214717	rs2919450	51235543	rs8086206	51248156
rs12605773	51215421	rs17089803	51236165	rs4500831	51248542
rs2872041	51215489	rs2958163	51236410	rs12967143	51250010
rs4801150	51216108	rs11873788	51236505	rs4468713	51255017
rs17089778	51216340				

Table 507 – LD Block 506 – Chromosome 18					
rs9949988 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs12456004	64738587	rs12961875	64749871	rs952238	64766169
rs4891350	64740094	rs17079912	64750469	rs9954900	64766996
rs12327487	64740862	rs4427910	64752039	rs4147354	64767752
rs12326199	64741759	rs4445985	64753301	rs17079959	64768151
rs12454992	64742185	rs11875482	64753493	rs9960832	64768402
rs12455027	64742245	rs4399632	64755673	rs9949988	64768478
rs12961346	64742323	rs10445526	64756369	rs12607393	64770315
rs11876888	64746595	rs10445527	64757332	rs4643435	64771501
rs17079907	64747289	rs12957357	64757780	rs11151476	64771764
rs17079909	64747622	rs12968514	64759805	rs4132249	64773253
rs4539705	64749163	rs12327360	64762466	rs3905374	64773274
rs11873434	64749624	rs4427904	64765754	rs4474788	64773847

Table 508 – LD Block 507 – Chromosome 18					
rs1369291 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs11151547	65751971	rs17230566	65818011	rs1369291	65861567
rs1823778	65752616	rs12150798	65827641	rs17805883	65875820
rs1539964	65776265	rs2304378	65838840		

Table 509 – LD Block 508 – Chromosome 19					
rs6511253 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7254436	21358520	rs8110230	21402880	rs1012040	21464254
rs7254762	21358862	rs12984238	21403544	rs2133820	21465722
rs1827225	21359200	rs2650776	21405237	rs2650791	21465922
rs11085447	21360939	rs2650775	21406266	rs2562448	21466754
rs2968045	21367093	rs2173726	21406495	rs2246914	21466802
rs7247411	21367210	rs2914649	21407534	rs2650793	21467955
rs17680671	21368403	rs2968084	21407739	rs8101089	21468013
rs7257857	21371378	rs12150996	21410451	rs2650794	21468377
rs8107999	21378076	rs12151222	21410878	rs1500401	21470387
rs7249412	21378637	rs3951363	21411491	rs6511253	21470638
rs12981869	21378990	rs951162	21413220	rs2650804	21472024
rs1055753	21380532	rs924487	21423249	rs2650799	21473409
rs6511239	21380966	rs12609823	21424559	rs8102854	21478490
rs10424079	21381019	rs8103151	21425758	rs7252254	21479401
rs2359144	21382476	rs2914646	21429001	rs8100318	21481849
rs4341872	21382850	rs8107940	21429029	rs2062564	21483239
rs12975981	21383198	rs7257584	21436636	rs1984771	21483637
rs13346641	21384123	rs7252585	21449783	rs1520071	21493880
rs8113558	21384804	rs2650808	21452877	rs2650757	21495385
rs2562402	21385268	rs2650779	21456920	rs2681365	21495804
rs2914626	21385501	rs2562458	21456967	rs2681366	21495943
rs11667770	21386398	rs2650780	21457376	rs2681368	21496004
rs7259311	21390002	rs2650781	21457477	rs1879235	21496427
rs2650844	21393930	rs2562457	21457956	rs8110814	21496685
rs2562413	21394726	rs2562456	21458050	rs11085455	21496885
rs10414834	21398559	rs2650783	21458263	rs1607664	21497820
rs17618778	21399950	rs2650784	21458437	rs2681371	21499568
rs8105629	21401396	rs2650786	21458599	rs2173724	21500997
rs2968082	21401583	rs2650787	21460554		

Table 510 – LD Block 509 – Chromosome 20					
rs12479791 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs16999397	172128	rs415385	180580	rs373225	186507
rs10222024	173058	rs1774116	181623	rs412143	186530
rs6111254	174153	rs392400	184168	rs416360	186540
rs438960	174444	rs451497	184238	rs409547	186737
rs371791	175967	rs364544	184419	rs419762	187294
rs12479791	176355	rs448294	184802	rs420525	187664
rs1775904	176577	rs434609	184992	rs399083	187688

Table 510 – LD Block 509 – Chromosome 20					
rs12479791 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs401906	178177	rs389018	185497	rs399094	187697
rs438305	178983	rs365548	185618	rs427969	188704
rs366968	180107	rs446621	186020	rs369103	188706

Table 511 – LD Block 510 – Chromosome 20					
rs6038047, rs8119332 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6038047	4981341	rs261355	4988041	rs261351	4989677
rs261360	4985774	rs261354	4988052	rs8119332	4990015
rs12625764	4987659	rs6053063	4989429	rs6053064	4990089
rs261356	4987792				

Table 512 – LD Block 511 – Chromosome 20					
rs7260967 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs418062	5003138	rs4142245	5015930	rs5023819	5023381
rs6053082	5004899	rs6038063	5017133	rs735204	5023777
rs2326588	5006061	rs6053099	5017714	rs734977	5024575
rs6084985	5006791	rs1550700	5019542	rs911110	5024663
rs11908536	5006969	rs6038067	5020721	rs6053108	5025077
rs6084986	5007269	rs1550701	5020844	rs6076775	5025414
rs1407011	5009789	rs6038069	5021837	rs2715	5029049
rs7260967	5010452	rs6139621	5022421		

Table 513 – LD Block 512 – Chromosome 20					
rs6077841 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1466698	10430869	rs620123	10453596	rs4813033	10486425
rs635399	10432342	rs675772	10455827	rs674491	10487931
rs589905	10434243	rs6077827	10456855	rs674407	10487989
rs659785	10435648	rs630569	10457717	rs6040023	10489988
rs672272	10436159	rs658854	10459491	rs629127	10495181
rs621848	10439670	rs6040010	10459586	rs6040028	10497503
rs8114269	10440279	rs857006	10461231	rs600045	10500650
rs684169	10443065	rs628473	10463891	rs693974	10505252
rs591076	10444095	rs610562	10471547	rs857015	10507474
rs637205	10445079	rs667940	10472793	rs16991816	10508458
rs860714	10445190	rs12106093	10472897	rs656478	10510658
rs620366	10446017	rs667067	10472976	rs16991819	10512621

Table 513 – LD Block 512 – Chromosome 20					
rs6077841 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs621207	10446149	rs640204	10473613	rs6077841	10519493
rs640572	10449347	rs640584	10473676	rs16991827	10522043
rs13043987	10450359	rs653692	10473741	rs7262165	10523782
rs590169	10450453	rs654626	10474535	rs7262417	10523952
rs683099	10450511	rs667456	10475133	rs6074159	10524470
rs593592	10452312	rs623839	10475792	rs3748470	10524591
rs605006	10452585	rs684685	10476609	rs6077843	10526542
rs631484	10452817	rs592457	10476791	rs1388949	10526561
rs607064	10452993	rs16991803	10486389	rs6077844	10527996

Table 514 – LD Block 513 – Chromosome 20					
rs11906812 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6046390	19800092	rs6046393	19800250	rs6046396	19800503
rs6046391	19800181	rs11906812	19800478		

Table 515 – LD Block 514 – Chromosome 20					
rs4812218 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs17793885	58831554	rs8126005	58838630	rs6015857	58846147
rs17793897	58831589	rs6027844	58839803	rs6015858	58846818
rs17201745	58831788	rs7508852	58840032	rs2224998	58848565
rs6015854	58831976	rs2224997	58841622	rs11905499	58850949
rs2094125	58833858	rs927778	58843206	rs6101100	58853508
rs13037385	58834060	rs927779	58843290	rs17793950	58855929
rs13042718	58835221	rs4812217	58845058	rs4812218	58856241
rs2224996	58836797	rs16984384	58845934		

Table 516 – LD Block 515 – Chromosome 20					
rs17794052 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6027867	58867770	rs17794052	58870361	rs6027877	58873785
rs912903	58867794	rs6071383	58871094	rs6071385	58873910
rs6071381	58868193	rs6027872	58871349	rs6071388	58874991
rs17201877	58869001	rs2038892	58871475	rs4812222	58875422
rs6027870	58869186	rs6093016	58872306	rs6071389	58875590
rs6027871	58869362	rs6071384	58873150	rs6015870	58876503

Table 517 – LD Block 516 – Chromosome 20					
rs2427381, rs4549159 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs7261643	60777736	rs4809492	60783129	rs2427381	60785230
rs4549159	60778346	rs6011628	60783951	rs6010861	60785447
rs8124973	60779176	rs2427377	60784589	rs6062833	60787678
rs2185089	60779985	rs2427378	60784723	rs6011649	60787794
rs6089836	60780088	rs2427379	60784780	rs4809499	60788088
rs7266121	60780515	rs6089848	60784868	rs2427383	60788344
rs2427374	60781847	rs16983163	60784951	rs2105161	60788376
rs2313152	60782438	rs2427380	60785185		

Table 518 – LD Block 517 – Chromosome 20					
rs3787521 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs1102963	60852692	rs856936	60856220	rs2427440	60860875
rs2243399	60853112	rs856937	60856232	rs746192	60862422
rs856934	60854488	rs2273075	60856677	rs2427444	60864318
rs3787521	60855171	rs2249938	60857849		

Table 519 – LD Block 518 – Chromosome 21					
rs2830687, rs2830686 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2830667	27376979	rs2830678	27384883	rs2830683	27392357
rs2830670	27378371	rs2830679	27385912	rs8127039	27392691
rs2830673	27382468	rs2830681	27387595	rs2830684	27393350
rs2830674	27382487	rs2065250	27388641	rs2830686	27394145
rs2830675	27382646	rs8130121	27389844	rs2830687	27394265
rs2830677	27384446	rs4817152	27390789	rs10222076	27395343

Table 520 – LD Block 519 – Chromosome 22					
rs2235161 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5766535	43980972	rs5766537	43981284	rs5766542	43983106
rs5766536	43981071	rs2235161	43982792		

Table 521 – LD Block 520 – Chromosome 22					
rs2283657 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs713896	44287559	rs2283658	44289045	rs2238810	44291040
rs713741	44287817	rs80680	44290254	rs2238811	44291254

Table 521 – LD Block 520 – Chromosome 22					
rs2283657 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs2283657	44288816	rs2238809	44290378	rs8143027	44292454

Table 522 – LD Block 521 – Chromosome X					
rs5935465 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4830819	12803660	rs5935486	12827110	rs4830827	12853618
rs16978608	12804312	rs12558238	12827387	rs5935497	12854086
rs1351705	12805265	rs5934066	12830927	rs3844228	12855812
rs2008146	12808642	rs5934067	12833312	rs4830828	12856459
rs12556591	12810283	rs2106712	12834642	rs4830485	12857925
rs5935480	12812179	rs5935490	12838432	rs5935501	12860189
rs4830483	12816311	rs850631	12845053	rs1230145	12863816
rs4830821	12817065	rs5935494	12846555	rs5935465	12867214
rs2017085	12822877	rs5978607	12847917	rs2013673	12869645
rs878774	12824320	rs5935495	12848324	rs12687333	12869907
rs757016	12824832	rs4830824	12848893	rs5935504	12875873
rs12156761	12825257	rs4830825	12850299		

Table 523 – LD Block 522 – Chromosome X					
rs5922023 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5922960	83370347	rs5922965	83394805	rs7065961	83411635
rs6418310	83371734	rs736729	83397159	rs4828255	83414496
rs17267378	83384146	rs5922966	83398011	rs5922969	83418776
rs5922964	83388241	rs2206858	83399705	rs742726	83419381
rs5968301	83390179	rs5922023	83400810	rs5922970	83424133
rs6622999	83393733				

Table 524 – LD Block 523 – Chromosome X					
rs7049756 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5911364	121523810	rs17319975	121532065	rs4825464	121563228
rs4825804	121524198	rs4523407	121532506	rs12398526	121573070
rs5911365	121525558	rs12858877	121534192	rs5911397	121575937
rs4825805	121525935	rs4240008	121538292	rs6608007	121576234
rs5911366	121527209	rs5911368	121538668	rs6648820	121577813
rs716209	121527872	rs4279717	121539973	rs5911398	121577951
rs1598208	121528289	rs12559017	121544635	rs7881831	121580051
rs4574971	121529727	rs7057244	121545879	rs5911400	121581600

Table 524 – LD Block 523 – Chromosome X					
rs7049756 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs6648810	121530775	rs5911381	121554877	rs5911401	121582009
rs16996891	121531052	rs7879326	121557285	rs7049756	121585161
rs7883110	121531310	rs5909905	121562270	rs5911402	121585481
rs5909899	121531753				

Table 525 – LD Block 524 – Chromosome X					
rs16997692 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5930109	126193035	rs10127132	126311269	rs7878889	126349587
rs2843453	126193519	rs4451450	126311940	rs7882976	126349953
rs2627621	126200993	rs5976560	126312811	rs10482395	126350848
rs2843459	126201509	rs10126761	126313023	rs978467	126352367
rs10856684	126201980	rs5976561	126314997	rs978468	126352506
rs7471676	126205483	rs5976562	126315389	rs5976576	126352678
rs651	126206774	rs5976564	126316018	rs5931992	126353305
rs4830033	126207496	rs5976565	126316234	rs1071908	126354421
rs5931945	126207636	rs12832529	126317774	rs5976577	126356326
rs12400529	126209843	rs5931975	126319444	rs12862961	126358146
rs12849001	126210505	rs5931976	126322946	rs7049491	126359602
rs1120912	126217109	rs5974907	126323051	rs5931993	126361112
rs5931951	126220483	rs12014482	126328519	rs12014384	126361195
rs5930112	126238785	rs4540546	126330114	rs2207033	126361845
rs5976549	126241073	rs5930119	126330218	rs5930127	126363076
rs7888013	126242931	rs6634600	126330899	rs6529207	126363385
rs5931958	126244468	rs5974908	126331565	rs7879750	126363783
rs4240116	126247282	rs7885080	126332309	rs10218007	126363933
rs5931960	126248708	rs7880304	126332469	rs7880012	126363979
rs5931961	126248936	rs4472651	126332729	rs10218012	126364128
rs4378105	126252919	rs7473797	126333294	rs5931994	126366066
rs11096144	126258925	rs11096147	126333787	rs5931995	126367869
rs5931966	126263250	rs12008939	126335928	rs11096150	126371924
rs4829667	126264388	rs7472645	126337739	rs12559029	126374484
rs10856688	126270095	rs12156852	126338447	rs5931998	126376215
rs11096145	126272220	rs5931982	126338895	rs6529208	126376714
rs7063301	126286312	rs4560930	126339605	rs723557	126378892
rs4240118	126289318	rs5930124	126341391	rs6529211	126383842
rs7056942	126290097	rs12399142	126341449	rs2092611	126385194
rs12558526	126295763	rs12857397	126341911	rs5932004	126386252
rs12556626	126295924	rs5931984	126342306	rs4830043	126388641
rs4830038	126296883	rs6529206	126342783	rs5974915	126388980

Table 525 – LD Block 524 – Chromosome X					
rs16997692 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5976556	126300025	rs12400645	126344633	rs6654227	126390087
rs649	126300426	rs5974911	126345533	rs16997692	126391036
rs12557565	126308410	rs5976573	126346293	rs766751	126394221
rs5976558	126308609	rs5931989	126346586	rs5930129	126394952
rs4354443	126309689	rs12400601	126347947	rs5932018	126395731
rs5932020	126397336	rs12007840	126423059	rs4546788	126448742
rs11096152	126399339	rs2314245	126424160	rs4628387	126450921
rs5976582	126401088	rs2314246	126424239	rs4529589	126450922
rs2207035	126401787	rs2872573	126424405	rs6634612	126454769
rs11096155	126402112	rs5976585	126426075	rs5976595	126454795
rs2179788	126405561	rs5932055	126426634	rs6637279	126455436
rs2143803	126405587	rs5932058	126427641	rs4436264	126457725
rs2143804	126405849	rs5932060	126429469	rs4483298	126457935
rs2314240	126406976	rs2314247	126430928	rs11796184	126459283
rs2314241	126407213	rs2024602	126431333	rs12558574	126461975
rs5932031	126409275	rs2024603	126432194	rs10856694	126462392
rs16997747	126409898	rs2024604	126432200	rs10745233	126462584
rs2314242	126411339	rs5930137	126434692	rs4481742	126463224
rs2179789	126411856	rs6529223	126437279	rs5011250	126463262
rs2143806	126412160	rs6418903	126438050	rs5976598	126464538
rs2314243	126413841	rs6529225	126439303	rs4829670	126465471
rs5932038	126414187	rs5976588	126441736	rs4325037	126466799
rs1883906	126414779	rs5974923	126443241	rs5932074	126466988
rs6529220	126415589	rs6637276	126447699	rs4614130	126467446
rs5932042	126416038	rs4562475	126448036	rs5930144	126468334
rs5932043	126416228				

Table 526 – LD Block 525 – Chromosome X					
rs5977484 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5932919	130327979	rs11096297	130365981	rs563929	130399898
rs5932920	130328676	rs687304	130373385	rs499030	130404002
rs11096292	130328958	rs591903	130373838	rs17316625	130404131
rs2321364	130335704	rs859833	130374053	rs655415	130404379
rs661890	130342516	rs5932929	130378309	rs10521769	130406465
rs653398	130351518	rs618974	130381913	rs5930488	130408302
rs5932925	130351905	rs932465	130383533	rs4830224	130410938
rs679858	130352898	rs2207159	130394115	rs2874451	130423227
rs5977484	130357028	rs860927	130394172	rs10521770	130424609
rs635057	130357773	rs4829728	130394974	rs5930490	130426668

Table 526 – LD Block 525 – Chromosome X					
rs5977484 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs615914	130362350	rs643068	130397427	rs5932939	130426690

Table 527 – LD Block 526 – Chromosome X					
rs707255 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs5930500	130570318	rs17250817	130615506	rs17316722	130639624
rs707255	130571597	rs17323791	130617444	rs5930505	130640652
rs10856744	130574900	rs5932976	130619301	rs5975289	130640690
rs5932966	130579940	rs7065823	130619492	rs5975291	130641157
rs10776463	130587610	rs5932978	130620493	rs724057	130641890
rs5932969	130587990	rs5932979	130621092	rs5977551	130642703
rs5932970	130594151	rs7877575	130632358	rs5930506	130643543
rs872840	130600586	rs5932982	130632555	rs5932984	130648647
rs4372150	130601471	rs5975288	130634663	rs5930507	130650613
rs5932972	130604750	rs7066919	130635164	rs5930508	130651792
rs7891128	130610769	rs5977550	130637670	rs17316736	130652041
rs5932974	130611419	rs7061008	130639028	rs2070289	130652091
rs5977543	130615441				

Table 528 – LD Block 527 – Chromosome X					
rs5908721 LD Block SNPs					
SNP ID (rs)	Base Position	SNP ID (rs)	Base Position	SNP ID (rs)	Base Position
rs4825173	142504585	rs10856662	142510395	rs1933400	142517719
rs6529174	142504676	rs11096082	142512784	rs10856663	142522782
rs12689414	142506961	rs12560218	142514414	rs4825175	142523578
rs17259239	142507202	rs6418895	142514973	rs5908721	142524339
rs10856660	142508725	rs878882	142516508	rs4825177	142524415

5

Claims

What is claimed is:

1. A method for determining existence or predisposition in a human subject to endometriosis, said method comprising the step of detecting in the genetic material of said subject the presence or absence of at least one endometriosis associated genetic marker of the following group of endometriosis associated genetic markers comprising the genetic markers disclosed in tables 1-528 of this application, the genetic markers disclosed in the tables of the applications incorporated by reference into this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof, wherein if the Odds Ratio of said at least one endometriosis associated genetic marker is greater than 1.0, the presence of said at least one endometriosis associated genetic marker is correlated with an increased risk of endometriosis and the absence of said at least one endometriosis associated genetic marker is correlated with a decreased risk of endometriosis, and wherein if the Odds Ratio of said at least one endometriosis associated genetic marker is less than 1.0, the presence of said at least one endometriosis associated genetic marker is correlated with a decreased risk of endometriosis and the absence of said at least one endometriosis associated genetic marker is correlated with an increased risk of endometriosis.

2. The method of claim 1, wherein said risk of endometriosis defines a presymptomatic risk of endometriosis.

3. The method of claim 1, further comprising the step of assessing risk of endometriosis by determining whether each of a set of independent variables has a unique predictive relationship to a dichotomous dependent variable.

4. The method of claim 3, wherein the step of assessing risk of developing endometriosis utilizes an algorithm comprising a logistic regression analysis.

5. The method of claim 1, wherein said genetic marker in linkage disequilibrium with a genetic marker thereof is selected from the genetic markers of Tables 2-528.

6. The method of claim 1, wherein said association defines an association having a Chi square contingency p value of no more than 0.01 between an altered risk of endometriosis population and a control population.

7. The method of claim 1, wherein said method includes the step of evaluating at least one endometriosis related clinical factor of said human subject of the following group of endometriosis related clinical factors comprising age at menarche, BMI, pelvic pain, infertility and other factors associated with endometriosis.

8. The method of claim 1, wherein said method includes the step of designating an assessed risk of predisposition of said human subject to endometriosis based on said at least one endometriosis associated genetic marker discovered to be present or absent in said genetic material of said subject and said evaluation step.

9. The method of claim 1, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1 of the instant application.

10. The method of claim 1, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Set 1 of Table 1 of the instant application.

11. The method of claim 1, wherein said human subject is a human fetus.

12. The method of claim 1, wherein in response to said increased risk of endometriosis, said method further includes at least one step of the following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, the step of treating said human subject by administering to said human subject an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

13. The method of claim 1, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1 of the instant application,

and wherein said determination of predisposition of a human subject to endometriosis is preceded by the step of evaluating at least one endometriosis related clinical factor of said human subject of the following group of endometriosis related clinical factors comprising age at menarche, BMI, pelvic pain, infertility and other factors associated with endometriosis,

and wherein in response to said increased risk of endometriosis, said method further includes at least one step of the following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, the step of treating said human subject by administering to said human subject an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

14. A method of assigning risk of existence or predisposition in a human subject to endometriosis, said method comprising at least one of the steps of assigning an increased risk for said subject of existence or predisposition of endometriosis based on the presence of at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, the genetic markers disclosed in the tables of the applications incorporated by reference into this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject if the Odds Ratio of said at least one endometriosis associated genetic marker is greater than 1.0, and assigning an increased risk for said subject of existence or predisposition of endometriosis based on the absence of at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, the genetic markers disclosed in the tables of the applications incorporated by reference into this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject if the Odds Ratio of said at least one endometriosis associated genetic marker is less than 1.0, and assigning a decreased risk

for said subject of existence or predisposition of endometriosis based on the presence of at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, the genetic markers disclosed in the tables of the applications incorporated by reference into this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject if the Odds Ratio of said at least one endometriosis associated genetic marker is less than 1.0, and assigning an decreased risk for said subject of existence or predisposition of endometriosis based on the absence of at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, the genetic markers disclosed in the tables of the applications incorporated by reference into this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject if the Odds Ratio of said at least one endometriosis associated genetic marker is greater than 1.0.

15. The method of claim 14, wherein said risk of existence or predisposition of endometriosis defines a presymptomatic risk of existence or predisposition of endometriosis.

16. The method of claim 14, further comprising the step of assessing risk of endometriosis by determining whether each of a set of independent variables has a unique predictive relationship to a dichotomous dependent variable.

17. The method of claim 16, wherein the step of assessing risk of developing endometriosis utilizes an algorithm comprising a logistic regression analysis.

18. The method of claim 14, wherein said genetic marker in linkage disequilibrium with a genetic marker thereof is selected from the genetic markers of Tables 2-528.

19. The method of claim 14, wherein said association defines an association having a Chi square contingency p value of no more than 0.01 between an altered risk of endometriosis population and a control population.

20. The method of claim 14, wherein said method includes the step of evaluating at least one endometriosis related clinical factor of said human subject of the following group of endometriosis related clinical factors comprising age at menarche, BMI, pelvic pain, infertility and other factors associated with endometriosis.

21. The method of claim 14, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1 of the instant application.

22. The method of claim 14, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Set 1 of Table 1 of the instant application.

23. The method of claim 14, wherein said human subject is a human fetus.

24. The method of claim 14, wherein in response to said increased risk of endometriosis, said method further includes at least one step of the following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, the step of treating said human subject by administering to said human subject an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

25. The method of claim 14, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1 of the instant application,

and wherein said determination of predisposition of a human subject to endometriosis is preceded by the step of evaluating at least one endometriosis related clinical factor of said human subject of the following group of endometriosis related clinical factors comprising age at menarche, BMI, pelvic pain, infertility and other factors associated with endometriosis,

and wherein in response to said increased risk of endometriosis, said method further includes at least one step of the following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, the step of treating said human subject by administering to said human subject an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

26. A method of detecting in a nucleic acid molecule a polymorphism that is associated with endometriosis, comprising:

contacting a test sample with a polynucleotide sequence that specifically hybridizes under stringent hybridization conditions to a polynucleotide sequence having at least one polymorphism selected from the group comprising the polymorphisms disclosed in tables 1-528 of this application, the polymorphisms disclosed in the tables of the applications incorporated by reference into this application, a complement of a polymorphism thereof, and a polymorphism in linkage disequilibrium with a polymorphism thereof, and;

detecting the formation of a hybridized duplex.

27. The method of claim 26, wherein said at least one polymorphism is selected from Table 1.

28. The method of claim 26, wherein said at least one polymorphism is selected from Set 1 of Table 1.

29. The method of claim 26, wherein said polymorphism is associated with endometriosis in a human subject.

30. The method of claim 29, wherein said human subject is a human fetus.

31. The method of claim 26, wherein in response to said detection of the formation of a hybridized duplex, said method further includes at least one step of the

following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, the step of treating said human subject by administering to said human subject an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

32. A method of selecting an appropriate therapeutic for a human subject having at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject, said method comprising the following steps:

designating an assessed risk of predisposition of said human subject to said endometriosis based on said at least one endometriosis associated genetic marker of said subject, and

selecting a therapeutic that at least partially compensates for endometriosis.

33. The method of claim 32, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.

34. A method of selecting a recipient for a therapeutic, said method comprising the following steps:

identify a human subject having at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject,

designating an assessed risk of predisposition of said human subject to said endometriosis based on said at least one endometriosis associated genetic marker of said subject, and

selecting said human subject as a recipient of a therapeutic that at least partially compensates for endometriosis.

35. The method of claim 34, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.

36. A method of treating a human subject having at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject, said method comprising the following steps:

designating an assessed risk of predisposition of said human subject to said endometriosis based on said at least one endometriosis associated genetic marker of said subject, and

administering to said human subject a therapeutic that at least partially compensates for endometriosis.

37. The method of claim 36, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.

38. The method of claim 36, wherein said step of designating an assessed risk of predisposition of said human subject to said endometriosis is preceded by the step of evaluating at least one endometriosis related clinical factor of said human subject of the following group of endometriosis related clinical factors comprising age at menarche, BMI, pelvic pain, infertility and other factors associated with endometriosis,

and wherein said method further includes at least one step of the following group of steps comprising the step of selecting an appropriate therapeutic that at least partially compensates for endometriosis, the step of selecting a recipient of a therapeutic that at least partially compensates for endometriosis, the step of developing an appropriate therapeutic that at least partially compensates for endometriosis, and the step of selecting human subjects for clinical trials involving the use of an appropriate therapeutic for treatment of endometriosis.

39. A method of developing an appropriate therapeutic for a human subject having at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement of a genetic marker thereof,

and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject, said method comprising the following steps:

designating an assessed risk of predisposition of said human subject to said endometriosis based on said at least one endometriosis associated genetic marker of said subject, and

developing an appropriate therapeutic that at least partially compensates for endometriosis.

40. The method of claim 39, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.

41. A method of selecting human subjects for clinical trials that use human subjects that are predisposed to endometriosis, said method comprising the following steps:

identify a human subject having at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject,

designating an assessed risk of predisposition of said human subject to said endometriosis based on said at least one endometriosis associated genetic marker of said subject, and

selecting said human subject for a clinical trial involving the use of an appropriate therapeutic for treatment of endometriosis.

42. The method of claim 41, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.

43. A method of screening human subjects, said method comprising the following steps:

obtaining a genetic material sample of a human subject,

inspecting said genetic material,

detecting in said genetic material the at least one endometriosis associated genetic marker of the genetic markers disclosed in tables 1-528 of this application, a complement

of a genetic marker thereof, and a genetic marker in linkage disequilibrium with a genetic marker thereof in the genetic material of said subject, and

responding to said detection of said endometriosis associated genetic marker.

44. The method of claim 43, wherein said at least one endometriosis associated genetic marker defines at least one genetic marker of Table 1.