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(54) **Title:** GENETIC MARKERS AND METHODS FOR IMPROVING SWINE GENETICS

(57) **Abstract:** The present invention provides compositions and methods useful for determining an animal's genotype and to select animals having a desired genotype. Embodiments of the invention also provide isolated nucleic acid molecules and analytical kits that may be used to determine an animal's genotype. Furthermore, the present invention provides methods for improving desirable animal traits including improved growth, enhanced body composition, improved meat color, and improved meat quality. The invention also provides methods for allocating animals for predetermined uses, for picking potential parent animals for breeding, and for producing progeny animals. The instant invention also provides methods for identifying associations between single nucleotide polymorphisms (SNPs) and phenotypic traits. Also provided are methods for identifying genetic markers in allelic association with the SNP disclosed herein and for identifying the genotypes of a causative mutation underlying a quantitative trait locus (QTL).

GENETIC MARKERS AND METHODS FOR IMPROVING SWINE GENETICS

PRIORITY

[0001] This application claims the benefit of U.S. Provisional Application Ser. No. 60/839,404 filed on August 22, 2006, which is hereby incorporated by reference in its entirety.

INCORPORATION OF SEQUENCE LISTING

[0002] A sequence listing is contained in the file named "Jumbo Swine_v2.ST25.txt" which is 2,676,736 bytes (2.55 megabytes) (measured in MS-Windows XP) and was created on August 9, 2007 and is located in computer readable form on a compact disc (in accordance with 37 C.F.R. §1. 52(e) and 37 C.F.R. §1. 1.821) is enclosed herewith and incorporated herein by reference.

FIELD OF THE INVENTION

[0003] The invention relates to the enhancement of desirable characteristics in swine. More specifically, it relates to genetic markers and methods for improving swine genetics.

BACKGROUND OF THE INVENTION

[0004] The future viability and competitiveness of the Pork Industry depends on improvement in the appearance (e.g., color), nutrient quality (e.g., reduced total fat content) and eating quality (e.g., water-holding capacity, tenderness) of pork food products. These improvements must be accompanied by continued gains in the efficiency of production. Unfortunately efficiency traits are often unfavorably correlated with product quality traits. Although these traits all have some degree of underlying genetic variation in commercial pig populations, the accuracy of selecting breeding animals with superior genetic merit for many of them is low due to low heritability or the inability to measure the trait directly on the candidate animal. In particular, meat quality traits can only be measured on the relatives of potential breeding animals. Thus, the accuracy of conventional selection for these traits is low and ability to make genetic change through selection is limited.

[0005] Genomics offers the potential for greater improvement in traits of pork production and quality through the discovery of genes, or genetic markers linked to genes, that account for genetic variation and can be used for more direct and accurate selection. Although some markers with associations with pork production and quality traits have been reported (see Rothschild and Plastow, 1999, AgBioTechNet 10:1-8 for a review), each of these traits is extremely complex and it is likely that a large number of genes per trait must be discovered to create significant value in selection. Only through comprehensive and powerful scans of the entire porcine genome can this goal be achieved.

[0006] The pigs harvested for pork around the world are typically produced by crossing closed breeding populations with distinct characteristics for maternal productivity, growth efficiency and meat quality. These closed populations typically have low levels of inbreeding and genome scans yielding markers that can be used across the population for selection require densely-spaced genetic markers on each of the porcine chromosomes. The application of such a marker map to discover and finely-map genes contributing to variation in growth, body composition and pork quality traits is described herein. The large number of resulting linked markers can be used in several methods of marker or marker-assisted selection, including whole-genome selection (Meuwissen et al., Genetics 2001) to improve the genetic merit of the population for these traits and the value created in the pork production chain.

SUMMARY OF THE INVENTION

[0007] This section provides a non-exhaustive summary of embodiments of the present invention.

[0008] Various embodiments of the invention provide isolated nucleic acids having the sequence of alleles comprising single nucleotide polymorphisms (SNPs) that are provided by the present invention. Aspects of these embodiments of the invention provide for isolated nucleic acids identical to all or a portion of the genomic sequences surrounding the SNPs (described in Tables 1 and 2), or identical to all or portion of the complementary strands of the genomic sequences surrounding the SNPs (described in Tables 1 and 2). For example the sequence may be 100% identical or greater than 99%,

98%, 97%, 96%, 95%, or 90% with all or a portion of the sequences described by Tables 1 and 2 and the SEQUENCE LISTING. Alternatively, the isolated nucleic acid sequence may be 100% , greater than 99%, greater than 98%, greater than 97%, greater than 96%, greater than 95%, or greater than 90% identical with a contiguous segment of 17 or more nucleotides, 25 or more, 50 or more, or 100 or more nucleotides.

[0009] Other embodiments of the invention provide methods for evaluating an animal's genotype at one or more positions in the animal's genome. In various aspects of these embodiments the animal's genotype is evaluated at a position within a segment of DNA (an allele) that contains at least one SNP selected from the SNPs described in the Tables and Sequence Listing of the present application.

[0010] Other embodiments of the invention provide methods for allocating animals for use based on their genotype (e.g. allocating for use as a breeding animal or to be sold for finishing and/or slaughter). Various aspects of this embodiment of the invention provide methods that comprise: a) analyzing the animal's genomic sequence at one or more alleles (where the alleles analyzed each comprise at least one SNP) to determine the animal's genotype at each of those alleles; b) analyzing the genotype determined for each allele to determine which allele of the SNP is present; c) allocating the animal for use based on its genotype at one or more of the alleles analyzed. Various aspects of this embodiment of the invention provide methods for allocating animals for use based on a favorable association between the animal's genotype, at one or more SNP alleles disclosed in the present application, and a desired phenotype. Alternatively, the methods provide for not allocating an animal for a certain use because it has one or more SNP alleles that are either associated with undesirable phenotypes or are not associated with desirable phenotypes.

[0011] Other embodiments of the invention provide methods for selecting animals for use in breeding to produce progeny. Various aspects of these methods comprise: A) determining the genotype of at least one potential parent animal at one or more locus/loci, where at least one of the loci analyzed contains an allele of a SNP selected from the group of SNPs described in Tables 1 and 2. B) Analyzing the determined genotype at one or more positions for at least one animal to determine which of the SNP alleles is present. C) Correlating the analyzed allele(s) with one or more phenotypes. D) Allocating at least one animal for use to produce progeny.

[0012] Other embodiments of the invention provide methods for producing offspring animals (progeny animals). Aspects of this embodiment of the invention provide methods that comprise: breeding an animal that has been selected for breeding by methods described herein to produce offspring. The offspring may be produced by purely natural methods or through the use of any appropriate technical means, including but not limited to: artificial insemination; embryo transfer (ET), multiple ovulation embryo transfer (MOET), *in vitro* fertilization (IVF), or any combination thereof.

[0013] Other embodiments of the invention provide for databases or groups of databases, each database comprising lists of the nucleic acid sequences, which lists include a plurality of the SNPs described in Tables 1 and 2. Preferred aspects of this embodiment of the invention provide for databases comprising the sequences for 50 or more SNPs. Other aspects of these embodiments comprise methods for using a computer algorithm or algorithms that use one or more database(s), each database comprising a plurality of the SNPs described in Tables 1 and 2 to identify phenotypic traits associated with the inheritance of one or more alleles of the SNPs, and/or using such a database to aid in animal allocation.

[0014] Still other embodiments of the invention provide diagnostic kits and/or arrays for detecting one or more of the SNPs described in Tables 1 and 2.

[0015] Further embodiments of the invention provide methods for identifying associations between one or more of the SNPs described in Tables 1 and 2 and one or more phenotypic traits.

[0016] Additional embodiments of the invention provide methods for identifying other genetic markers that are in allelic association with one or more of the SNPs described in Tables 1 and 2.

DEFINITIONS

[0017] The following definitions are provided to aid those skilled in the art to more readily understand and appreciate the full scope of the present invention. Nevertheless, as indicated in the definitions provided below, the definitions provided are not intended to be exclusive, unless so indicated. Rather, they are preferred definitions, provided to focus the skilled artisan on various illustrative embodiments of the invention.

[0018] As used herein the term "allelic association" preferably means: nonrandom deviation of $f(A_iB_j)$ from the product of $f(A_i)$ and $f(B_j)$, which is specifically defined by $r^2>0.2$, where r^2 is measured from a reasonably large animal sample (e.g., ≥ 100) and defined as

$$r^2 = \frac{[f(A_1B_1) - f(A_1)f(B_1)]^2}{f(A_1)(1-f(A_1))(f(B_1)(1-f(B_1))} \qquad \text{(Equation 1)}$$

where A_1 represents an allele at one locus, B_1 represents an allele at another locus; $f(A_1B_1)$ denotes frequency of having both A_1 and B_1, $f(A_1)$ is the frequency of A_1, $f(B_1)$ is the frequency of B_1 in a population.

[0019] As used herein the terms "allocating animals for use" and "allocation for use" preferably mean deciding how an animal will be used within a herd or that it will be removed from the herd to achieve desired herd management goals. For example, an animal might be allocated for use as a breeding animal or allocated for sale as a non-breeding animal (e.g. allocated to animals intended to be sold for meat). In certain aspects of the invention, animals may be allocated for use in sub-groups within the breeding programs that have very specific goals (e.g. to improve meat color or carcass composition). Accordingly, even within the group of animals allocated for breeding purposes, there may be more specific allocation for use to achieve more specific and/or specialized breeding goals.

[0020] As used herein the terms "animal" or "animals" preferably refer to pigs/swine.

[0021] As used herein the terms "composition" and "body composition" preferably refer to measurements of the physical characteristics of the animal/pig and/or its carcass or to the characteristics themselves.

[0022] As used herein the term "growth" refers to the measurement of various parameters associated with an increase in an animal's size/weight.

[0023] As used herein the term "linkage disequilibrium" preferably means allelic association wherein A_1 and B_1 (as used in the above definition of allelic association) are present on the same chromosome.

[0024] As used herein the term "meat color" refers to measurements of color of meat obtained from a slaughtered animal.

[0025] As used herein the term "meat quality" refers measurements of the palatability and/or eating qualities (e.g. marbling, texture, and tenderness) of meat from a slaughtered animal.

[0026] As used herein the term "natural breeding" preferably refers to mating animals without human intervention in the fertilization process. That is, without the use of mechanical or technical methods such as artificial insemination or embryo transfer. The term does not refer to selection of the parent animals.

[0027] As used herein the term "quantitative trait" is used to denote a trait that is controlled by multiple (two or more, and often many) genes each of which contributes small to moderate effect on the trait. The observations on quantitative traits often follow a normal distribution.

[0028] As used herein the term "quantitative trait locus (QTL)" is used to describe a locus that contains polymorphism that has an effect on a quantitative trait.

[0029] As used herein the term "reproductive material" includes, but is not limited to semen, spermatozoa, ova, and zygote(s).

[0030] As used herein the term "single nucleotide polymorphism" or "SNP" refer to a location in an animal's genome that is polymorphic within the population. That is, within the population some individual animals have one type of base at that position, while others have a different base. For example, a SNP might refer to a location in the genome where some animals have a "G" in their DNA sequence, while others have a "T".

[0031] As used herein the terms "hybridization under stringent conditions" and "stringent hybridization conditions" preferably mean conditions under which a "probe" will hybridize to its target sequence to a detectably greater degree than to other sequences (e.g., at least 5-fold over background). Stringent conditions are target-sequence-dependent and will differ depending on the structure of the polynucleotide. By controlling the stringency of the hybridization and/or washing conditions, target sequences that are 100% complementary to the probe can be identified (homologous probing). Alternatively, stringency conditions can be adjusted to allow some mismatching in sequences so that lower degrees of similarity are detected (heterologous probing).

[0032] Typically, stringent conditions will be those in which the salt concentration is less than about 1.5 M Na ion, typically about 0.01 to 1.0 M Na ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30 °C for short probes (e.g., 10 to 50 nucleotides) and at least about 60 °C for long probes (e.g., greater than 50 nucleotides). Stringency may also be adjusted with the addition of destabilizing agents such as formamide. Exemplary low stringency conditions include hybridization with a buffer solution of 30 to 35% formamide, 1 M NaCl, 1% SDS (sodium dodecyl sulphate) at 37 °C, and a wash in 1X to 2X SSC (20X SSC=3.0 M NaCl/0.3 M trisodium citrate) at 50 to 55 °C. Exemplary moderate stringency conditions include hybridization in 40 to 45% formamide, 1 M NaCl, 1% SDS at 37 °C, and a wash in 0.5X to 1X SSC at 55 to 60 °C. Exemplary high stringency conditions include hybridization in 50% formamide, 1 M NaCl, 1% SDS at 37°C, and a wash in 0.1X SSC at 60 to 65 °C. The duration of hybridization is generally less than about 24 hours, usually about 4 to about 12 hours.

[0033] Specificity is typically the function of post-hybridization washes, the critical factors being the ionic strength and temperature of the final wash solution. For DNA-DNA hybrids, the thermal melting point (T_m) can be approximated from the equation of Meinkoth and Wahl (1984) Anal. Biochem. 138:267-284: T_m=81.5°C+16.6 (log M)+0.41 (% GC)-0.61 (% form)-500/L; where M is the molarity of monovalent cations, % GC is the percentage of guanine and cytosine nucleotides in the DNA, % form is the percentage of formamide in the hybridization solution, and L is the length of the hybrid in base pairs. The T_m is the temperature (under defined ionic strength and pH) at which 50% of a complementary target sequence hybridizes to a perfectly matched probe. T_m is reduced by about 1°C for each 1% of mismatching; thus, T_m, hybridization, and/or wash conditions can be adjusted to hybridize to sequences of the desired identity. For example, if sequences with 90% identity are sought, the T_m can be decreased 10°C. Generally, stringent conditions are selected to be about 5°C lower than the T_m for the specific sequence and its complement at a defined ionic strength and pH. However, highly stringent conditions can utilize a hybridization and/or wash at 1, 2, 3, or 4°C lower than the thermal melting point (T_m); moderately stringent conditions can utilize a hybridization and/or wash at 6, 7, 8, 9, or 10°C lower than the thermal melting point (T_m); low stringency conditions can utilize a hybridization and/or wash at 11, 12, 13, 14, 15, or 20°C lower than the thermal melting point (T_m). Using the equation, hybridization and wash compositions, and desired T_m, those of ordinary skill will understand that

variations in the stringency of hybridization and/or wash solutions are inherently described. If the desired degree of mismatching results in a T_m of less than 45°C (aqueous solution) or 32°C (formamide solution), it is preferred to increase the SSC concentration so that a higher temperature can be used. An extensive guide to the hybridization of nucleic acids is found in Tijssen (1993) Laboratory Techniques in Biochemistry and Molecular Biology--Hybridization with Nucleic Acid Probes, Part I, Chapter 2 (Elsevier, N.Y.); and Ausubel et al., eds. (1995) Current Protocols in Molecular Biology, Chapter 2 (Greene Publishing and Wiley-Interscience, New York). See also Sambrook et al. (1989) Molecular Cloning: A Laboratory Manual (2d ed., Cold Spring Harbor Laboratory Press, Plainview, N.Y.).

ILLUSTRATIVE EMBODIMENTS OF THE INVENTION

[0034] Various embodiments of the present invention provide methods for evaluating an animal's (especially a pig's) genotype at one or more positions in the animal's genome. Aspects of these embodiments of the invention provide methods that comprise determining the animal's genomic sequence at one or more locations (loci) that contain single nucleotide polymorphisms (SNPs). Specifically, the invention provides methods for evaluating an animal's genotype by determining which of two or more alleles for the SNP are present for one or more SNPs selected from the group consisting of the SNPs described in Tables 1 and 2 of the instant application.

[0035] In preferred aspects of these embodiments the animal's genotype is evaluated to determine which allele is present for 10 or more SNPs selected from the group of SNPs described in Tables 1 and 2. More, preferably the animal's genotype is determined for positions corresponding with 25, 50, 100, 200, 500, or 1000, or more of the SNPs described in Tables 1 and 2.

[0036] In other aspects of this embodiment, the animal's genotype is analyzed with respect to at least 1, 10, 25, 50, 100, 200, 500, or more SNPs that have been shown to be associated with growth, composition, meat color, or meat quality, or any combination thereof (*see* Table 1 for a list of the SNPs associated with these traits). For example, embodiments of the invention provides a method for genotyping for a single SNP or for genotyping 10 or more, 25 or more, 50 or more, 100 or more, 200 or more, or 500 or more SNPs that have been determined to be significantly associated with growth.

[0037] In any embodiment of the invention the genomic sequence at the SNP locus may be determined by any means compatible with the present invention. Suitable means are well known to those skilled in the art and include, but are not limited to direct sequencing, sequencing by synthesis, primer extension, Matrix Assisted Laser Desorption /Ionization-Time Of Flight (MALDI-TOF) mass spectrometry, polymerase chain reaction-restriction fragment length polymorphism, microarray/multiplex array systems (e.g. those available from Affimetrix, Santa Clara, California), and allele-specific hybridization.

[0038] Other embodiments of the invention provide methods for allocating animals for subsequent use (e.g. to be used as sire/dams or to be sold for immediate slaughter or to be sold for finishing or any other use). Various aspects of this embodiment of the invention comprise determining at least one animal's genotype for at least one SNP selected from the group of SNPs described in Tables 1 and 2 (methods for determining animals' genotypes for one or more SNPs are described *supra*). Thus, the animal's allocation for use may be determined based on its genotype at one or more, 10 or more, 25 or more, 50 or more, 100 or more, 300 or more, or 500 or more of the SNPs described in Tables 1 and 2. The instant invention provides embodiments where analysis of the genotypes of the SNPs described in Tables 1 and 2 is the only analysis done. Other embodiments provide methods where analysis of the SNPs disclosed herein is combined with any other desired type of genomic or phenotypic analysis (e.g. analysis of any genetic markers beyond those disclosed in the instant invention). Moreover, the SNPs analyzed may be selected from those SNPs only associated with growth, only composition, only meat color, only meat quality, or the analysis may be done for SNPs selected from any desired combination of traits. SNPs associated with various traits are listed in Table 1.

[0039] According to various aspects of these embodiments of the invention, once the animal's genetic sequence for the selected SNP(s) have been determined, this information is evaluated to determine which allele of the SNP is present for at least one of the selected SNPs. Preferably the animal's allelic complement for all of the determined SNPs is evaluated. Finally, the animal is allocated for use based on its genotype for one or more of the SNP positions evaluated. Preferably, the allocation is made taking into account the animal's genotype at each of the SNPs evaluated, but its allocation may be based on any subset or subsets of the SNPs evaluated.

[0040] The allocation may be made based on any suitable criteria. For any SNP, a determination may be made as to whether one of the allele(s) is associated/correlated with desirable characteristics or associated with undesirable characteristics. This determination will often depend on the animal breed/line, and on the breeding or other herd management goals. Determination of which alleles are associated with desirable phenotypic characteristics can be made by any suitable means. Methods for determining these associations are well known in the art; moreover, aspects of the use of these methods are generally described in the EXAMPLES, below.

[0041] Phenotypic traits that may be associated with the SNPs of the current invention include, but are not limited to: growth traits, body and/or carcass composition, meat quality, meat color, health traits (resistance to disease and injury and stress tolerance), breeding traits such as litter size, survival of young, breeding efficiency, and length of reproductive life of the female.

[0042] According to various aspects of this embodiment of the invention allocation for use of the animal may entail either positive selection for the animals having the desired genotype(s) (e.g. the animals with the desired genotypes are selected for breeding purposes), negative selection of animals having undesirable genotypes (e.g. animals with an undesirable genotypes are culled from the herd), or any combination of these methods. According to preferred aspects of this embodiment of the invention animals identified as having SNP alleles associated with desirable phenotypes are allocated for use consistent with that phenotype (e.g. allocated for breeding based on phenotypes positively associated with improved growth). Alternatively, animals that do not have SNP genotypes that are positively correlated with the desired phenotype (or possess SNP alleles that are negatively correlated with that phenotype) are not allocated for the same use as those with a positive correlation for the trait.

[0043] Other embodiments of the invention provide methods for selecting potential parent animals (*i.e.*, allocation for breeding). Various aspects of this embodiment of the invention comprise determining at least one animal's genotype for at least one SNP selected from the group of SNPs described in Tables 1 and 2. Furthermore, determination of whether and how an animal will be used as a potential parent animal may be based on its genotype at one or more, 10 or more, 25 or more, 50 or more, 100 or more, 300 or more, or 500 or more of the SNPs described in Tables 1 and 2. Moreover, as with other types of allocation for use, various aspects of these embodiments of the

invention provide methods where the only analysis done is to genotype the animal for one or more of the SNPs described in Tables 1 and 2. Other aspects of these embodiments provide methods where analysis of one or more SNPs disclosed herein is combined with any other desired genomic or phenotypic analysis (e.g. analysis of any genetic markers beyond those disclosed in the instant invention). Moreover, the SNP(s) analyzed may all be selected from those associated only with growth, or only with composition, or only meat color, or only meat quality. Conversely, the analysis may be done for SNPs selected from any desired combination of these or other traits.

[0044] According to various aspects of these embodiments of the invention, once the animal's genetic sequence at the site of the selected SNP(s) have been determined, this information is evaluated to determine which allele of the SNP is present for at least one of the selected SNPs. Preferably the animal's allelic complement for all of the sequenced SNPs is evaluated. Additionally, the animal's allelic complement is analyzed and correlated with the probability that the animal's progeny will express one or more phenotypic traits. Finally, the animal is allocated for breeding use based on its genotype for one or more of the SNP positions evaluated and the probability that it will pass the desired genotype(s)/allele(s) to its progeny. Preferably, the breeding allocation is made taking into account the animal's genotype at each of the SNPs evaluated. However, its breeding allocation may be based on any subset or subsets of the SNPs evaluated.

[0045] The breeding allocation may be made based on any suitable criteria. For example, breeding allocation may be made so as to increase the probability of enhancing a single certain desirable characteristic in a population (in preference to other characteristics); alternatively, the selection may be made so as to generally maximize overall production based on a combination of traits. The allocations chosen are dependent on the breeding goals.

[0046] Other embodiments of the instant invention provide methods for producing progeny animals. According to various aspects of this embodiment of the invention, the animals used to produce the progeny are those that have been allocated for breeding according to any of the embodiments of the current invention. Those using the animals to produce progeny may perform the necessary analysis or, alternatively, those producing the progeny may obtain animals that have been analyzed by another. The progeny may be produced by any appropriate means, including, but not limited to using: (i) natural breeding, (ii) artificial insemination, (iii) *in vitro* fertilization (IVF) or (iv) collecting

semen/spermatozoa and/or at least one ovum from the animal and contacting it, respectively with ova/ovum or semen/spermatozoa from a second animal to produce a conceptus by any means.

[0047] According to preferred aspects of this embodiment of the invention the progeny are produced by a process comprising natural breeding. In other aspects of this embodiment the progeny are produced through a process comprising the use of standard artificial insemination (AI), *in vitro* fertilization, multiple ovulation embryo transfer (MOET), deep intrauterine insemination (DIUI), or any combination thereof.

[0048] Other embodiments of the invention provide for methods that comprise allocating an animal for breeding purposes and collecting/isolating genetic material from that animal: wherein genetic material includes but is not limited to: semen, spermatozoa, ovum, zygotes, blood, tissue, serum, DNA, and RNA.

[0049] It is understood that most efficient and effective use of the methods and information provided by the instant invention employ computer programs and/or electronically accessible databases that comprise all or a portion of the sequences disclosed in the instant application. Accordingly, the various embodiments of the instant invention provide for databases comprising all or a portion of the sequences corresponding to at least 10 SNPs described in Tables 1 and 2. In preferred aspect of these embodiments the databases comprise sequences for 25 or more, 50 or more, 100 or more, 200 or more, 500 or more, 1000 or more, or substantially all of the SNPs described in Tables 1 and 2.

[0050] It is further understood that efficient analysis and use of the methods and information provided by the instant invention will employ the use of automated genotyping; particularly when large numbers (e.g. 100s) of markers are evaluated. Any suitable method known in the art may be used to perform such genotyping, including, but not limited to the use of micro-arrays.

[0051] Other embodiments of the invention provide methods wherein one or more of the SNP sequence databases described herein are accessed by one or more computer-executable programs. Such methods include, but are not limited to, use of the databases by programs to analyze for an association between the SNP and a phenotypic trait, or other user-defined trait (e.g. traits measured using one or more metrics such as gene

expression levels, protein expression levels, or chemical profiles), and programs used to allocate animals for breeding or market.

[0052] Other embodiments of the invention provide methods comprising collecting genetic material from an animal that has been allocated for breeding. Wherein the animal has been allocated for breeding by any of the methods disclosed as part of the instant invention.

[0053] Other embodiments of the invention are drawn to isolated nucleic acids comprising 17 or more contiguous nucleotides corresponding to any one of the SNP sequences described in Tables 1 and 2 (*i.e.* any of SEQ ID NO:1–5211 and the Tables). In preferred aspects of this embodiment of the invention the isolated nucleic acid comprises a nucleotide corresponding with the polymorphic site in the sequence (i.e. it contains the site that defines the SNP's polymorphism as described in Tables 1 and 2).

[0054] Other embodiments of the invention provide isolated nucleic acid molecules comprising 100 or more contiguous nucleotides which are at least 90 percent identical with any of SEQ ID NO:1–5211. In preferred aspects of this embodiment of the invention the isolated nucleic comprises the polymorphic site for one or more SNPs selected from the group of SNPs described in Tables 1 and 2.

[0055] Other embodiments of the invention provide for diagnostic kits or other diagnostic devices for determining which allele of a SNP is present in a sample; wherein the SNP(s) are selected from the group of SNPs described in Tables 1 and 2. In various aspects of this embodiment of the invention, the kit or device provides reagents/instruments to facilitate a determination as to whether nucleic acid corresponding to the SNP is present. Such kit/or device may further facilitate a determination as to which allele of the SNP is present. In certain aspects of this embodiment of the invention the kit or device comprises at least one nucleic acid oligonucleotide suitable for DNA amplification (e.g. through polymerase chain reaction). In other aspects of the invention the kit or device comprises a purified nucleic acid fragment capable of specifically hybridizing, under stringent conditions, with at least one allele of at least one SNP described in Tables 1 and 2.

[0056] In particularly preferred aspects of this embodiment of the invention the kit or device comprises at least one nucleic acid array (e.g. DNA micro-arrays) capable of determining which allele of one or more of the SNPs described in Tables 1 and 2 is

present in a sample. Preferred aspects of this embodiment of the invention provide DNA micro-arrays capable of simultaneously determining which allele is present in a sample for 10 or more SNPs. Preferably, the DNA micro-array is capable of determining which SNP allele is present in a sample for 25 or more, 50 or more, 100 or more, 200 or more, 500 or more, or 1000 or more SNPs. Methods for making such arrays are known to those skilled in the art and such arrays are commercially available (e.g. from Affimetrix, Santa Clara, California).

[0057] Other embodiments of the present invention provide methods for identifying, within a plurality of animals, an association between one or more of the SNPs described in Tables 1 and 2 and at least one phenotypic trait. In various aspects of this embodiment of the invention the method comprises: (a) measuring one or more phenotypic traits in a plurality of animals; (b) determining the genotype for at least one SNP for a plurality of animals, wherein at least one SNP genotype determined is selected from the group of SNPs described in Tables 1 and 2; and (c) statistically correlating the presence of at least one phenotypic trait with the presence of an allele of at least one SNP selected from the group of SNPs described in Tables 1 and 2; wherein the presence of different alleles for that SNP is associated with different phenotypic attributes or with distinguishable phenotypic variation. That is, where the presence of different alleles, for at least one SNP, is associated with a statistically distinct phenotypic difference in the animals possessing them. The distinct phenotype may be detectable either between individual animals or it may be detectable when pluralities of the animals having different genotypes are compared as groups.

[0058] Other embodiments of the instant invention provide methods of identifying genetic markers that are in allelic association with one or more of the SNPs described in Tables 1 and 2. According to various aspects of this embodiment of the invention the method comprises: (a) identifying a marker, B_1, that is suspected of being in allelic association with at least one marker, A_1, wherein A_1 is selected from the group of SNPs described in Tables 1 and 2; (b) determining whether A_1 and B_1 are in allelic association; wherein allelic association is determined to exist if $r^2 > 0.2$ for Equation 1 for a population sample of at least 100 animals and wherein Equation 1 is:

$$r^2 = \frac{[f(A_1B_1) - f(A_1)f(B_1)]^2}{f(A_1)(1-f(A_1))(f(B_1)(1-f(B_1))} \quad \text{[Equation 1]}$$

and wherein for Equation 1 A_1 represents an allele at one locus (A SNP described by Tables 1 and 2); B_1 represents a genetic marker at another locus; $f(A_1B_1)$ denotes frequency of having both A_1 and B_1; $f(A_1)$ is the frequency of A_1 in the population, $f(B_1)$ is the frequency of B_1 in the population. In preferred aspects of this embodiment of the invention B_1 is a SNP. Even more preferred aspects of this embodiment of the invention provide methods for identifying genetic markers in linkage disequilibrium with one or more SNPs selected from the group of SNPs described in Tables 1 and 2. In other aspects of these embodiments of the invention the value of r^2 is greater than 0.5, greater than 0.7, or greater than 0.9.

[0059] Additional embodiments of the invention provide for genetic markers that are in allelic association with one or more of the SNPs described in Tables 1 and 2. Markers provided as part of this embodiment of the invention may be identified by any suitable means known to those of ordinary skill in the art. A marker falls within this embodiment of the invention if it is determined to be in allelic association with one or more of the SNPs described in Tables 1 and 2 as defined by Equation 1, *supra*, where r^2 is greater than 0.2, greater than 0.5, greater than 0.7, or greater than 0.9. In preferred aspects of these embodiments of the invention the markers are in linkage disequilibrium with one or more of the SNPs described in Tables 1 and 2.

[0060] Genetic markers that are in allelic association with any of the SNPs described in the Tables may be identified by any suitable means known to those skilled in the art. For example, a genomic library may be screened using a probe specific for any of the sequences of the SNPs described in the Tables. In this way clones comprising at least a portion of that sequence can be identified and then up to 300 kilobases of 3' and/or 5' flanking chromosomal sequence can be determined. By this means, genetic markers in allelic association with the SNPs described in the Tables will be identified.

[0061] Other embodiments of the present invention provide methods for identifying genes that may be associated with phenotypic variation. According to various aspects of these embodiments, the chromosomal location of a SNP associated with a particular phenotypic variation can be determined, by means well known to those skilled in the art. Once the chromosomal location is determined genes suspected to be involved with determination of the phenotype can be analyzed. Such genes may be identified by sequencing adjacent portions of the chromosome or by comparison with analogous section of the human genetic map (or known genetic maps for other species). An early

example of the existence of clusters of conserved genes is reviewed in Womack (1987), where genes mapping to the same chromosome in one species were observed to map to the same chromosome in other, closely related, species. As mapping resolution improved, reports of the conservation of gene structure and order within conserved chromosomal regions were published (for example, Grosz et al, 1992). More recently, large scale radiation hybrid mapping and BAC sequence have yielded chromosome-scale comparative mapping predictions between human and bovine genomes (Everts-van der Wind et al., 2005), between human and porcine genomes (Yasue et al., 2006) and among vertebrate genomes (Demars et al., 2006)

[0062] Other embodiments of the invention provide methods for identifying causal mutations that underlie one or more quantitative trait loci (QTL). Various aspects of this embodiment of the invention provide for the identification QTL that are in allelic association with one or more of the SNPs described in Tables 1 and 2. Once these SNPs are identified, it is within the ability of skilled artisans to identify mutations located proximal to such SNP(s). Further, one skilled in the art can identify genes located proximate to the identified SNP(s) and evaluate these genes to select those likely to contain the causal mutation. Once identified these genes and the surrounding sequence can be analyzed for the presence of mutations, in order to identify the causal mutation.

EXAMPLES

[0063] The following examples are included to demonstrate general embodiments of the invention. It should be appreciated by those of skill in the art that the techniques disclosed in the examples which follow represent techniques discovered by the inventors to function well in the practice of the invention, and thus can be considered to constitute preferred modes for its practice. However, those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments which are disclosed and still obtain a like or similar result without departing from the invention.

[0064] All of the compositions and methods disclosed and claimed herein can be made and executed without undue experimentation in light of the present disclosure. While the compositions and methods of this invention have been described in terms of preferred embodiments, it will be apparent to those of skill in the art that variations may be applied without departing from the concept and scope of the invention.

Example 1: ***Determining Associations between Genetic Markers and Phenotypic Traits***

[0065] Simultaneous discovery and fine-mapping on a genome-wide basis of genes underlying quantitative traits (Quantitative Trait Loci: QTL) requires genetic markers densely covering the entire genome. As described in this example, a whole-genome, dense-coverage marker map was constructed from microsatellite and single nucleotide polymorphism (SNP) markers with previous estimates of location in the pig genome, and from SNP markers with putative locations in the pig genome based on homology with human sequence and the human/pig comparative map. A new linkage-mapping software package was developed, as an extension of the CRIMAP software (Green et al., Washington University School of Medicine, St. Louis, 1990), to allow more efficient mapping of densely-spaced markers genome-wide in a pedigreed livestock population (Liu and Grosz Abstract C014; Grapes et al. Abstract W244; 2006 Proceedings of the XIV Plant and Animal Genome Conference, www.intl-pag.org). The new linkage mapping tools build on the basic mapping principles programmed in CRIMAP to improve efficiency through partitioning of large pedigrees, automation of chromosomal assignment and two-point linkage analysis, and merging of sub-maps into complete chromosomes. The resulting whole-genome discovery map (WGDM) included ~5,926 markers and a map length of 2,373.6 cM for an average map density of 2.41 markers/cM. The average gap between markers was 0.44 cM and the largest gap was 11.1 cM. This map provided the basis for whole-genome discovery and fine-mapping of QTL contributing to variation in pig growth, efficiency, carcass composition and meat quality.

Discovery and Mapping Populations

[0066] Systems for discovery and mapping populations can take many forms. The most effective strategies for determining population-wide marker/QTL associations include a large and genetically diverse sample of individuals with phenotypic measurements of interest collected in a design that allows accounting for non-genetic effects and includes information regarding the pedigree of the individuals measured. In the present example, three populations were used to discovery and map QTL: a population derived from the Pietrain breed, a population derived from the Duroc breed, and a composite of the other two populations produced by crossing followed by several generations of *inter se* mating. DNA samples were collected from approximately 1,000 to 2,000 progeny per population;

representing multiple sire and grandsire families. DNA samples were also collected from the sire of each progeny, and in some cases from additional members of the pedigree.

[0067] The progeny sampled from these populations had been measured for several phenotypic traits including average daily gain in weight, ultrasonically-measured fat thickness and loin muscle area, fat and muscle depth at slaughter, pH and water-holding capacity of the meat, color of the meat, intra-muscular fat or marbling in the meat, and tenderness of the meat. DNA samples collected from the progeny and members of the pedigree were genotyped for approximately 4,600 SNP markers that are approximately evenly distributed across the WGDM and that were previously determined to be informative for mapping purposes in these populations. For each animal, and each SNP marker, a genotype is generated reflecting the alleles present on the chromosome pair at that locus (e.g., AA, AB or BB) and is used in subsequent marker/trait association analyses.

Phenotypic Analyses

[0068] The phenotypic measurements on individual animals for growth, body composition and meat quality were subjected to standard statistical procedures to remove erroneous and biologically impossible data, and to account for non-genetic sources of variation. For example in a first step, upper and lower biological limits can be determined for each trait by examining the upper and lower 2.5% and excluding data that are known to exceed the range of biological possibilities for the trait. In a second step, a general linear statistical model can be used for each trait that includes adjustment for known potential non-genetic effects. For example, all traits can be adjusted for the on-farm contemporary group to which the animal belonged (season-year-farm-building) and the sex of the animal. Measurements of periodic growth rate can be adjusted for the beginning age of the animal and the number of days measured. Body composition measurements (e.g., lean percentage) can be adjusted for the weight of the animal at measurement. Data collected after slaughter are typically adjusted for the effect of day of slaughter. Meat quality data can be adjusted for other relevant information (e.g., extended time to reach the cooler or excessive skinning). After adjustments for these non-genetic factors, the data can again be examined for outliers and values with a residual standard deviation of 4.0 or more excluded from analyses.

QTL Discovery and Mapping Analyses

[0069] Mapping the location of QTL through associations between marker genotypes and phenotypic traits (pre-adjusted for non-genetic effects) can be approached in several ways, including simple regressions of each trait on the genotype for each SNP marker (e.g., trait regressed on number of "A" alleles: 0, 1, or 2) or analyses of families within the population to detect linkage between markers and QTL. The marker/trait associations most useful as animal selection tools are those of markers tightly linked to a QTL and based on marker/QTL allele configurations that are present in most individuals across the population.

[0070] These types of population-wide results can be obtained from linkage-disequilibrium (LD) mapping. When a mutation that can cause a trait difference first occurs, that mutation is in complete LD with all other alleles on that chromosome. Over time recombination breaks down the LD, but there is a relatively small frequency of recombination between the QTL and loci in very close proximity. Hence, individuals that share an allele of the QTL transmitted from some common ancestor (Identical By Decent: IBD) are likely to share alleles of closely linked markers. By using ordered marker genotypes along the chromosome (marker haplotypes with known parental origin) to determine the probabilities at each locus that individuals with phenotypic data are IBD, marker alleles in population-wide linkage with valuable QTL alleles can be identified.

[0071] In the present example, LD mapping was performed in the aforementioned discovery population using statistical analyses that require knowledge of ordered genotypes. Ordered genotypes of an individual can be inferred partially or with certainty conditional on pedigree information and observed genotype data (Du and Hoeschele, 2000). With simple pedigrees such as a nuclear family and small numbers of linked markers, exact calculation of the probabilities of linkage phases is achievable, by evaluating all possible genotype configurations. The exact calculation quickly becomes infeasible as the size and complexity of the pedigree and number of linked markers increases. For example, there are totally 2^{k-1} linkage phases when a parent has k linked heterozygous loci.

[0072] In part due to this computational difficulty, most methods have focused on identifying the most probable linkage phase. Windig and Meuwissen (2004) provide a computationally efficiency method for phase construction. They start with a likely phase derived with a simple rule based method, calculate the parental origin of the two alleles at a marker, and perform a switch if the probability of the switch is greater than 0.5. The process is repeated until the probability of a switch is less than 0.5 for all linked markers. In the present example, probabilities of parental linkage phases for the entire set of linked loci were determined by choosing small subsets of markers (e.g., 5 to 10) and considering all possible phases for these markers by calculating their probability conditional on the observed genotypes for all markers under evaluation. Only phases with likelihood ratio greater than some pre-specified threshold are retained, and the iteration of the method over the entire marker set produces a collection of likely phases and their probabilities conditional on the observed data.

[0073] To determine associations between haplotypes probabilities and trait phenotypes, haplotypes of neighboring (and/or non-neighboring) markers across each chromosome were defined by setting the maximum length of a chromosomal interval and minimum and maximum number of markers to be included. Clearly, one needs to set similar parameters to form or define groups of marker loci for haplotype evaluation. The association between pre-adjusted trait phenotypes and haplotype was evaluated via a regression approach with the following model:

$$Y_k = \sum_i \beta_i [P(H_{sik}) + P(H_{dik})] + e_k \qquad \text{[Equation 2]}$$

where Y_k is the preadjusted phenotype of one of the traits described above for individual k, and e_k is the residual; $P(H_{sik})$ and $P(H_{dik})$ are the probability of paternal and maternal haplotype of individual k being haplotype i; $P(H_{sik}, H_{dik})$ is the probability of individual k has paternal haplotype i and maternal haplotype j; all β are corresponding regression coefficients.

[0074] Least-squares methods were used to estimate the effect of a haplotype on a phenotypic trait and the regular F-test used to test the significance of the effect. Permutation tests were performed based on phenotype permutation (10,000 to 50, 000) within the whole sample for Type I error rate (p value) estimation.

Example 2: ***Use of single nucleotide polymorphisms to improve offspring traits***

[0075] To improve the average genetic merit of a population for a chosen trait, one or more of the markers with significant association to that trait can be used in selection of breeding animals. In the case of each discovered locus, use of animals possessing a marker allele (or a haplotype of multiple marker alleles) in population-wide LD with a favorable QTL allele will increase the breeding value of animals used in breeding, increase the frequency of that QTL allele in the population over time and thereby increase the average genetic merit of the population for that trait. This increased genetic merit can be disseminated to commercial populations for full realization of value.

[0076] For example, a closed genetic nucleus (GN) population of pigs may be maintained to produce boars for use in commercial production of market hogs. A GN herd of 200 sows would be expected to produce approximately 4,000 offspring per year (2,000 boar offspring per year), typically according to a weekly breeding and farrowing schedule. A commercial sow herd of 300,000 would be expected to produce more than 6,000,000 market pigs per year and might maintain a boar stud with inventory of 1,500 boars to service the 300,000 sows. Hence the GN herd of 200 sows could support boar replacements for the 300,000 sows of commercial production by shipping 500 boars every six months to the commercial boar stud (assumes inventory in the commercial boar stud is turned over every 1.5 years and the top half of boar candidates from the GN are selected for commercial breeding).

[0077] The first step in using a SNP for estimation of breeding value and selection in the GN is collection of DNA from all offspring that will be candidates for selection as breeders in the GN or as breeders in other commercial populations (in the present example, the 4,000 offspring produced in the GN each year). One method is to capture shortly after farrowing a small bit of tail tissue from each piglet into a labeled (bar-coded) tube. The DNA extracted from this tissue can be used to assay an essentially unlimited number of SNP markers and the results can be included in selection decisions before the animal reaches breeding age.

[0078] One method for incorporating into selection decisions the markers (or marker haplotypes) determined to be in population-wide LD with valuable QTL alleles (see Example 1) is based on classical quantitative genetics and selection index theory

(Falconer and Mackay, 1996; Dekkers and Chakraborty, 2001). To estimate the effect of the marker in the population targeted for selection, a random sample of animals with phenotypic measurements for the trait of interest can be analyzed with a mixed animal model with the marker fitted as a fixed effect or as a covariate (regression of phenotype on number of allele copies). Results from either method of fitting marker effects can be used to derive the allele substitution effects, and in turn the breeding value of the marker:

$$\alpha_1 = q[a + d(q - p)] \quad \text{[Equation 3]}$$

$$\alpha_2 = -p[a + d(q - p)] \quad \text{[Equation 4]}$$

$$\alpha = a + d(q - p) \quad \text{[Equation 5]}$$

$$g_{A1A1} = 2(\alpha_1) \quad \text{[Equation 6]}$$

$$g_{A1A2} = (\alpha_1) + (\alpha_2) \quad \text{[Equation 7]}$$

$$g_{A2A2} = 2(\alpha_2) \quad \text{[Equation 8]}$$

where α_1 and α_2 are the average effects of alleles 1 and 2, respectively; α is the average effect of allele substitution; p and q are the frequencies in the population of alleles 1 and 2, respectively; a and d are additive and dominance effects, respectively; g_{A1A1}, g_{A1A2} and g_{A2A2} are the (marker) breeding values for animals with marker genotypes A1A1, A1A2 and A2A2, respectively. The total trait breeding value for an animal is the sum of breeding values for each marker (or haplotype) considered and the residual polygenic breeding value:

$$EBV_{ij} = \Sigma \hat{g}_j + \hat{U}_i \quad \text{[Equation 9]}$$

where EBV_{ij} is the Estimated Trait Breeding Value for the ith animal, $\Sigma \hat{g}_j$ is the marker breeding value summed from j = 1 to n where n is the total number of markers

(haplotypes) under consideration, and $\hat{U}_i$ is the polygenic breeding value for the ith animal after fitting the marker genotype(s).

[0079] These methods can readily be extended to estimate breeding values for selection candidates for multiple traits, the breeding value for each trait including information from multiple markers (haplotypes), all within the context of selection index theory and specific breeding objectives that set the relative importance of each trait. Other methods also exist for optimizing marker information in estimation of breeding values for multiple traits, including random models that account for recombination between markers and QTL (e.g., Fernando and Grossman, 1989), and the potential inclusion of all discovered marker information in whole-genome selection (Meuwissen et al., Genetics 2001). Through any of these methods, the markers reported herein that have been determined to be in population-wide LD with valuable QTL alleles may be used to provide greater accuracy of selection, greater rate of genetic improvement, and greater value accumulation in the pork production chain.

Example 3: ***Identification of SNP***

[0080] A nucleic acid sequence contains a SNP of the present invention if it comprises at least 20 consecutive nucleotides that include and/or are adjacent to a polymorphism described in Tables 1 and 2 and the Sequence Listing. Alternatively, a SNP of the present invention may be identified by a shorter stretch of consecutive nucleotides which include or are adjacent to a polymorphism which is described in Tables 1 and 2 and the Sequence Listing in instances where the shorter sequence of consecutive nucleotides is unique in the pig genome. A SNP site is usually characterized by the consensus sequence in which the polymorphic site is contained, the position of the polymorphic site, and the various alleles at the polymorphic site. "Consensus sequence" means DNA sequence constructed as the consensus at each nucleotide position of a cluster of aligned sequences. Such clusters are often used to identify SNP and Indel (insertion/deletion) polymorphisms in alleles at a locus. Consensus sequence can be based on either strand of DNA at the locus, and states the nucleotide base of either one of each SNP allele in the locus and the nucleotide bases of all Indels in the locus, or both SNP alleles using degenerate code (IUPAC code: M for A or C; R for A or G; W for A or T; S for C or G; Y for C or T; K for G or T; V for A or C or G; H for A or C or T; D for A or G or T; B for C or G or T; N for A or C or G or T; Additional code that we use include I for "–"or

A; O for "–" or C; E for "–" or G; L for "–" or T; where "–" means a deletion). Thus, although a consensus sequence may not be a copy of an actual DNA sequence, a consensus sequence is useful for precisely designing primers and probes for actual polymorphisms in the locus.

[0081] Such SNP have a nucleic acid sequence having at least 90% sequence identity, more preferably at least 95% or even more preferably for some alleles at least 98% and in many cases at least 99% sequence identity, to the sequence of the same number of nucleotides in either strand of a segment of pig DNA which includes or is adjacent to the polymorphism. The nucleotide sequence of one strand of such a segment of pig DNA may be found in a sequence in the group consisting of SEQ ID NO:1 through SEQ ID NO:5211. It is understood by the very nature of polymorphisms that for at least some alleles there will be no identity at the polymorphic site itself. Thus, sequence identity can be determined for sequence that is exclusive of the polymorphism sequence. The polymorphisms in each locus are described in Tables 1 and 2.

[0082] Shown below are examples of public porcine SNPs that match each other:
SNP ss16337002 was determined to be the same as ss16337593 because 41 bases (with the polymorphic site at the middle) from each sequence match one another perfectly (match length=41, identity=100%).

```
ss16337002:  gcaacctacaccacagctcayggcaaggcccaatccttaac
             |||||||||||||||||||||||||||||||||||||||||
ss16337593:  gcaacctacaccacagctcayggcaaggcccaatccttaac
```

[0083] SNP ss16337555 was determined to be the same as ss16338279 because 41 bases (with the polymorphic site at the middle) from each sequence match one another at all bases except for one base (match length=41, identity=97%).

```
ss16337555:  gaaccatgaagttgcgggttsgatccctggcctcgmtcagt
             ||||||||| |||||||||||||||||||||||||||||||
ss16338279:  gaaccatgargttgcgggttsgatccctggcctcgmtcagt
```

Example 4: ***Quantification of the animal's body and/or carcass composition***

[0084] Quantifying an animal's body and/or carcass composition can be accomplished by measuring a number of phenotypes including, but not limited to: average backfat thickness (e.g. in inches or centimeters) measured on the carcass or on the live animal using ultrasound; loin muscle (eye) area (e.g. in^2) measured on the carcass or on the live animal using ultrasound; fat depth, loin depth (millimeters) and carcass weight (pounds) measured on-line after slaughter using industry standard equipment (e.g., Fat-O-Meater); predicted lean percentage (%) calculated from backfat thickness, loin muscle depth or area, and body or carcass weight; carcass length (e.g. in inches); National Pork Producers Council (NPPC) marbling quality score (i.e., 1-5); Intramuscular fat content of the loin (%); primal cuts (loin, shoulder, belly, etc) as a percent of carcass weight (%); carcass yield as a percentage of live weight (%).

Example 5: ***Quantification of the animal's growth***

[0085] Quantifying an animal's growth can be accomplished by measuring phenotypes including, but not limited to: average daily weight gain (e.g. lbs/day); average daily feed intake (lbs/day); feed conversion ratio (lbs feed per lb gain); growth from birth to any desired age (lb); and growth during a specified test period (e.g. from 21 to 165 days of age).

Example 6: ***Quantification of meat color***

[0086] Quantifying meat color can be accomplished by measuring phenotypes including, but not limited to: Hunter colorimeter scores; change in Hunter colorimeter score over a 24 hour period; Japanese color score (1–5); and NPPC color quality score (1–5).

Example 7: ***Quantification of meat quality***

[0087] Quantifying meat quality can be accomplished by measuring phenotypes including, but not limited to: Drip loss (%); purge loss (%); pH of loin or ham; moisture content in the loin (%); NPPC firmness quality score (1–5); Werner-Bratzler shear force (kg); and cooking loss (%).

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[0088] The references cited in this application, both above and below, are specifically incorporated herein by reference.

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US2005153317A1	Methods and systems for inferring traits to breed and manage non-beef livestock	DeNise, Sue; Rosenfeld, David; Kerr, Richard; Bates, Stephen; Holm, Tom	7/14/05
US2005208551A1	Novel PRKAG3 alleles and use of the same as genetic markers for reproductive and meat quality traits	Rothschild, Max F.; Ciobanu, Daniel C.; Malek, Massoud; Plastow, Graham	9/22/05
WO9723644A1	The pig myogenin gene and method to identify polymorphisms related to muscle growth	SOUMILLION, Ann, Elizabeth, Maria; TE PAS, Marinus, Frederik, Willem	7/3/97

Patent/Publication Number	Title	Inventors	Pub. Date
WO9846792A2	Genetic marker based pig selection	Chang, Kin, Chow	10/22/98
WO0006777A2	Melanocortin-4 Receptor Gene And Use As A Genetic Marker For Fat Content, Weight Gain, And/Or Feed Consumption Of Animals	ROTHSCHILD, MAX, F.; LARSON, NIELS, J.; KIM, KWAN, SUK	2/10/00
WO0036143A2	Selecting animals for parentally imprinted traits	ANDERSSON, Leif; GEORGES, Michel; SPINCEMAILLE, Geert	6/22/00
WO0069882A1	Genetic marker for meat quality, growth, carcass and reproductive traits in livestock	GREGER, Douglas, L.	11/23/00
WO0146406A2	New QTLs On Chromosomes X, 2, 6 And 7 Of PigS	DE KONING, Dirk-Jan; GROENEN, Martinus, Antonius, Mathilda; VAN ARENDONK, Johannus, Antonius, Maria	6/28/01
WO0175161A2	Genetic markers for improved meat characteristics in animals	ROTHSCHILD, Max, F.; EMNETT, Rebecca; KIM, Kwan, Suk	10/11/01
WO0192570A2	Method to screen for improved meat characteristics in pigs	HALEY, Christopher, Simon; MALTIN, Charlotte, Anne	12/6/01
WO0220850A2	Novel PRKAG3 alleles and use of the same as genetic markers for reproductive and meat quality traits	ROTHSCHILD, Max, F.; CIOBANU, Daniel, C.; MALEK, Massoud; PLASTOW, Graham	3/14/02
WO05001032A2	Fine mapping of chromosome 17 quantitative trait loci and use of same for marker assisted selection	ROTHSCHILD, Max F.,; RAMOS, Antonio; KIM, Kwan Suk	1/6/05
WO05017204B1	Use single nucleotide polymorphsm in the coding region of the porcine leptin receptor gene to enhance pork production	KOJIMA, Cheryl J., I DU, Fengxing, GROSZ, Michael, D., BYATT, John, C.,	9/29/05
WO05040400A2	Methods and systems for inferring traits to manage non-beef livestock	DENISE, Sue, K.; ROSENFELD, David; KERR, Richard; BATES, Stephen; HOLM, Tom	5/6/05
WO05078133A2	Marker Assisted Best Linear Unbiased Predicted (MA-BLUP): software adaptations for practical applications for large breeding populations in farm animal species	WANG, Tianlin; LOHUIS, Michael, M.; KOJIMA, Cheryl, J.; DU, Fengxing; BYATT, John	8/25/05

DESCRIPTION OF THE TABLES

[0089] Table 1: provides a list of phenotypic traits and the assigned identification numbers of SNPs found to be associated with each trait. The left column provides a counter to allow easier reading of the table. The "Trait" column lists the following traits: "COLOR" (meat color), rows 1–4139; "COMPOSITION" (body composition) rows 4140–8687; "GROWTH", rows 8787–13083; and "MEAT QUALITY", rows 13084–16695.

[0090] Table 2: provides the SEQ ID NO of the sequence associated with each of the SNPs listed in Table 1. The "SNP POSITION" column provides the position (nucleotide number) of the SNP within the associated sequence (SEQ ID NO) and the "SNP ALLELE 1" and "SNP ALLELE 2" columns provide the identity of the two nucleotides that occur most frequently at the SNP POSITION within the population analyzed.

TABLE 1

	TRAIT	SNP ID NO		TRAIT	SNP ID NO
1	COLOR	SsSNP2006_4938	29	COLOR	SsSNP2006_3934
2	COLOR	SsSNP2006_3313	30	COLOR	SsSNP2006_961
3	COLOR	SsSNP2006_478	31	COLOR	SsSNP2006_4888
4	COLOR	SsSNP2006_4669	32	COLOR	SsSNP2006_4363
5	COLOR	SsSNP2006_468	33	COLOR	SsSNP2006_1087
6	COLOR	SsSNP2006_3290	34	COLOR	SsSNP2006_1090
7	COLOR	SsSNP2006_4309	35	COLOR	SsSNP2006_1089
8	COLOR	SsSNP2006_3644	36	COLOR	SsSNP2006_3104
9	COLOR	SsSNP2006_2548	37	COLOR	SsSNP2006_3118
10	COLOR	SsSNP2006_2489	38	COLOR	SsSNP2006_5030
11	COLOR	SsSNP2006_2896	39	COLOR	SsSNP2006_2908
12	COLOR	SsSNP2006_4736	40	COLOR	SsSNP2006_4923
13	COLOR	SsSNP2006_4570	41	COLOR	SsSNP2006_3350
14	COLOR	SsSNP2006_1507	42	COLOR	SsSNP2006_5048
15	COLOR	SsSNP2006_2303	43	COLOR	SsSNP2006_4162
16	COLOR	SsSNP2006_1952	44	COLOR	SsSNP2006_5133
17	COLOR	SsSNP2006_4269	45	COLOR	SsSNP2006_2793
18	COLOR	SsSNP2006_4799	46	COLOR	SsSNP2006_3727
19	COLOR	SsSNP2006_4835	47	COLOR	SsSNP2006_1747
20	COLOR	SsSNP2006_1172	48	COLOR	SsSNP2006_5151
21	COLOR	SsSNP2006_2339	49	COLOR	SsSNP2006_2206
22	COLOR	SsSNP2006_1642	50	COLOR	SsSNP2006_3461
23	COLOR	SsSNP2006_1282	51	COLOR	SsSNP2006_998
24	COLOR	SsSNP2006_3584	52	COLOR	SsSNP2006_933
25	COLOR	SsSNP2006_4089	53	COLOR	SsSNP2006_966
26	COLOR	SsSNP2006_4261	54	COLOR	SsSNP2006_3891
27	COLOR	SsSNP2006_1292	55	COLOR	SsSNP2006_1920
28	COLOR	SsSNP2006_4924	56	COLOR	SsSNP2006_996

	TRAIT	SNP ID NO
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58	COLOR	SsSNP2006_1022
59	COLOR	SsSNP2006_3129
60	COLOR	SsSNP2006_2724
61	COLOR	SsSNP2006_2847
62	COLOR	SsSNP2006_2098
63	COLOR	SsSNP2006_4837
64	COLOR	SsSNP2006_1451
65	COLOR	SsSNP2006_493
66	COLOR	SsSNP2006_662
67	COLOR	SsSNP2006_833
68	COLOR	SsSNP2006_832
69	COLOR	SsSNP2006_4633
70	COLOR	SsSNP2006_1220
71	COLOR	SsSNP2006_3640
72	COLOR	SsSNP2006_3761
73	COLOR	SsSNP2006_2864
74	COLOR	SsSNP2006_1502
75	COLOR	SsSNP2006_2889
76	COLOR	SsSNP2006_1111
77	COLOR	SsSNP2006_3610
78	COLOR	SsSNP2006_2447
79	COLOR	SsSNP2006_1025
80	COLOR	SsSNP2006_1190
81	COLOR	SsSNP2006_4549
82	COLOR	SsSNP2006_2867
83	COLOR	SsSNP2006_3641
84	COLOR	SsSNP2006_5157
85	COLOR	SsSNP2006_4589
86	COLOR	SsSNP2006_4241
87	COLOR	SsSNP2006_4372
88	COLOR	SsSNP2006_2533
89	COLOR	SsSNP2006_4891
90	COLOR	SsSNP2006_1547
91	COLOR	SsSNP2006_2629
92	COLOR	SsSNP2006_3628
93	COLOR	SsSNP2006_4174
94	COLOR	SsSNP2006_3007
95	COLOR	SsSNP2006_3251
96	COLOR	SsSNP2006_1664
97	COLOR	SsSNP2006_4928
98	COLOR	SsSNP2006_3416
99	COLOR	SsSNP2006_4573
100	COLOR	SsSNP2006_3573
101	COLOR	SsSNP2006_2653
102	COLOR	SsSNP2006_1925
103	COLOR	SsSNP2006_2990
104	COLOR	SsSNP2006_2289
105	COLOR	SsSNP2006_4439
106	COLOR	SsSNP2006_3131
107	COLOR	SsSNP2006_4059

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109	COLOR	SsSNP2006_3430
110	COLOR	SsSNP2006_3491
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112	COLOR	SsSNP2006_1037
113	COLOR	SsSNP2006_1180
114	COLOR	SsSNP2006_1666
115	COLOR	SsSNP2006_2870
116	COLOR	SsSNP2006_2178
117	COLOR	SsSNP2006_1653
118	COLOR	SsSNP2006_3167
119	COLOR	SsSNP2006_4072
120	COLOR	SsSNP2006_1241
121	COLOR	SsSNP2006_564
122	COLOR	SsSNP2006_4113
123	COLOR	SsSNP2006_1718
124	COLOR	SsSNP2006_2911
125	COLOR	SsSNP2006_3726
126	COLOR	SsSNP2006_4898
127	COLOR	SsSNP2006_543
128	COLOR	SsSNP2006_738
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133	COLOR	SsSNP2006_2546
134	COLOR	SsSNP2006_1471
135	COLOR	SsSNP2006_2246
136	COLOR	SsSNP2006_3558
137	COLOR	SsSNP2006_3420
138	COLOR	SsSNP2006_3333
139	COLOR	SsSNP2006_3205
140	COLOR	SsSNP2006_1063
141	COLOR	SsSNP2006_2859
142	COLOR	SsSNP2006_4079
143	COLOR	SsSNP2006_4931
144	COLOR	SsSNP2006_2953
145	COLOR	SsSNP2006_2286
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147	COLOR	SsSNP2006_3165
148	COLOR	SsSNP2006_926
149	COLOR	SsSNP2006_925
150	COLOR	SsSNP2006_4511
151	COLOR	SsSNP2006_1780
152	COLOR	SsSNP2006_773
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154	COLOR	SsSNP2006_2858
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157	COLOR	SsSNP2006_4750
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163	COLOR	SsSNP2006_1006
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166	COLOR	SsSNP2006_2403
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168	COLOR	SsSNP2006_580
169	COLOR	SsSNP2006_902
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172	COLOR	SsSNP2006_4520
173	COLOR	SsSNP2006_5173
174	COLOR	SsSNP2006_2436
175	COLOR	SsSNP2006_4243
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179	COLOR	SsSNP2006_1238
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182	COLOR	SsSNP2006_3081
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184	COLOR	SsSNP2006_2479
185	COLOR	SsSNP2006_770
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187	COLOR	SsSNP2006_3199
188	COLOR	SsSNP2006_4664
189	COLOR	SsSNP2006_2517
190	COLOR	SsSNP2006_1820
191	COLOR	SsSNP2006_1179
192	COLOR	SsSNP2006_3646
193	COLOR	SsSNP2006_4856
194	COLOR	SsSNP2006_4472
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232	COLOR	SsSNP2006_2060
233	COLOR	SsSNP2006_1379
234	COLOR	SsSNP2006_3812
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237	COLOR	SsSNP2006_1908
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16386	MEAT_QUALITY	SsSNP2006_5004
16387	MEAT_QUALITY	SsSNP2006_2637
16388	MEAT_QUALITY	SsSNP2006_2134
16389	MEAT_QUALITY	SsSNP2006_4574
16390	MEAT_QUALITY	SsSNP2006_3198
16391	MEAT_QUALITY	SsSNP2006_3695
16392	MEAT_QUALITY	SsSNP2006_4032
16393	MEAT_QUALITY	SsSNP2006_5085
16394	MEAT_QUALITY	SsSNP2006_2506
16395	MEAT_QUALITY	SsSNP2006_5153
16396	MEAT_QUALITY	SsSNP2006_3903
16397	MEAT_QUALITY	SsSNP2006_3694
16398	MEAT_QUALITY	SsSNP2006_358
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16400	MEAT_QUALITY	SsSNP2006_4482
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16434	MEAT_QUALITY	SsSNP2006_327
16435	MEAT_QUALITY	SsSNP2006_2197
16436	MEAT_QUALITY	SsSNP2006_4665
16437	MEAT_QUALITY	SsSNP2006_335
16438	MEAT_QUALITY	SsSNP2006_344
16439	MEAT_QUALITY	SsSNP2006_4061
16440	MEAT_QUALITY	SsSNP2006_4645
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16447	MEAT_QUALITY	SsSNP2006_3329
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16450	MEAT_QUALITY	SsSNP2006_325
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16453	MEAT_QUALITY	SsSNP2006_349
16454	MEAT_QUALITY	SsSNP2006_348
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16474	MEAT_QUALITY	SsSNP2006_829
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16478	MEAT_QUALITY	SsSNP2006_3393

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16480	MEAT_QUALITY	SsSNP2006_1844
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16483	MEAT_QUALITY	SsSNP2006_595
16484	MEAT_QUALITY	SsSNP2006_611
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16487	MEAT_QUALITY	SsSNP2006_1878
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16489	MEAT_QUALITY	SsSNP2006_4983
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16491	MEAT_QUALITY	SsSNP2006_810
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16493	MEAT_QUALITY	SsSNP2006_1128
16494	MEAT_QUALITY	SsSNP2006_1129
16495	MEAT_QUALITY	SsSNP2006_3661
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16497	MEAT_QUALITY	SsSNP2006_3285
16498	MEAT_QUALITY	SsSNP2006_4078
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16500	MEAT_QUALITY	SsSNP2006_1134
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16502	MEAT_QUALITY	SsSNP2006_1135
16503	MEAT_QUALITY	SsSNP2006_1264
16504	MEAT_QUALITY	SsSNP2006_1712
16505	MEAT_QUALITY	SsSNP2006_1689
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16508	MEAT_QUALITY	SsSNP2006_4948
16509	MEAT_QUALITY	SsSNP2006_2075
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16511	MEAT_QUALITY	SsSNP2006_2916
16512	MEAT_QUALITY	SsSNP2006_4658
16513	MEAT_QUALITY	SsSNP2006_2691
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16517	MEAT_QUALITY	SsSNP2006_716
16518	MEAT_QUALITY	SsSNP2006_715
16519	MEAT_QUALITY	SsSNP2006_676
16520	MEAT_QUALITY	SsSNP2006_3079
16521	MEAT_QUALITY	SsSNP2006_862
16522	MEAT_QUALITY	SsSNP2006_4475
16523	MEAT_QUALITY	SsSNP2006_3605
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16558	MEAT_QUALITY	SsSNP2006_3303
16559	MEAT_QUALITY	SsSNP2006_5091
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16561	MEAT_QUALITY	SsSNP2006_1307
16562	MEAT_QUALITY	SsSNP2006_2643
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16568	MEAT_QUALITY	SsSNP2006_4929
16569	MEAT_QUALITY	SsSNP2006_4865
16570	MEAT_QUALITY	SsSNP2006_3403
16571	MEAT_QUALITY	SsSNP2006_3456
16572	MEAT_QUALITY	SsSNP2006_3055
16573	MEAT_QUALITY	SsSNP2006_2408
16574	MEAT_QUALITY	SsSNP2006_2038
16575	MEAT_QUALITY	SsSNP2006_1630
16576	MEAT_QUALITY	SsSNP2006_1231
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16579	MEAT_QUALITY	SsSNP2006_4852
16580	MEAT_QUALITY	SsSNP2006_2233

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16582	MEAT_QUALITY	SsSNP2006_1935
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16584	MEAT_QUALITY	SsSNP2006_2004
16585	MEAT_QUALITY	SsSNP2006_1762
16586	MEAT_QUALITY	SsSNP2006_791
16587	MEAT_QUALITY	SsSNP2006_792
16588	MEAT_QUALITY	SsSNP2006_775
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16608	MEAT_QUALITY	SsSNP2006_1944
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16627	MEAT_QUALITY	SsSNP2006_5003
16628	MEAT_QUALITY	SsSNP2006_4251
16629	MEAT_QUALITY	SsSNP2006_3923
16630	MEAT_QUALITY	SsSNP2006_3306
16631	MEAT_QUALITY	SsSNP2006_4569

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16634	MEAT_QUALITY	SsSNP2006_3518
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16637	MEAT_QUALITY	SsSNP2006_4908
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16642	MEAT_QUALITY	SsSNP2006_253
16643	MEAT_QUALITY	SsSNP2006_258
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16647	MEAT_QUALITY	SsSNP2006_3621
16648	MEAT_QUALITY	SsSNP2006_3342
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16652	MEAT_QUALITY	SsSNP2006_679
16653	MEAT_QUALITY	SsSNP2006_2989
16654	MEAT_QUALITY	SsSNP2006_3936
16655	MEAT_QUALITY	SsSNP2006_1797
16656	MEAT_QUALITY	SsSNP2006_4684
16657	MEAT_QUALITY	SsSNP2006_2901
16658	MEAT_QUALITY	SsSNP2006_4857
16659	MEAT_QUALITY	SsSNP2006_3094
16660	MEAT_QUALITY	SsSNP2006_3054
16661	MEAT_QUALITY	SsSNP2006_3037
16662	MEAT_QUALITY	SsSNP2006_4155
16663	MEAT_QUALITY	SsSNP2006_2769
16664	MEAT_QUALITY	SsSNP2006_2357
16665	MEAT_QUALITY	SsSNP2006_3190
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16667	MEAT_QUALITY	SsSNP2006_2115
16668	MEAT_QUALITY	SsSNP2006_391
16669	MEAT_QUALITY	SsSNP2006_3593
16670	MEAT_QUALITY	SsSNP2006_3263
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16672	MEAT_QUALITY	SsSNP2006_3409
16673	MEAT_QUALITY	SsSNP2006_4283
16674	MEAT_QUALITY	SsSNP2006_4005
16675	MEAT_QUALITY	SsSNP2006_2709
16676	MEAT_QUALITY	SsSNP2006_393
16677	MEAT_QUALITY	SsSNP2006_1373
16678	MEAT_QUALITY	SsSNP2006_2638
16679	MEAT_QUALITY	SsSNP2006_3175
16680	MEAT_QUALITY	SsSNP2006_4043
16681	MEAT_QUALITY	SsSNP2006_3714
16682	MEAT_QUALITY	SsSNP2006_3271

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16684	MEAT_QUALITY	SsSNP2006_380
16685	MEAT_QUALITY	SsSNP2006_377
16686	MEAT_QUALITY	SsSNP2006_3058
16687	MEAT_QUALITY	SsSNP2006_717
16688	MEAT_QUALITY	SsSNP2006_719
16689	MEAT_QUALITY	SsSNP2006_709
16690	MEAT_QUALITY	SsSNP2006_720

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16691	MEAT_QUALITY	SsSNP2006_1276
16692	MEAT_QUALITY	SsSNP2006_4292
16693	MEAT_QUALITY	SsSNP2006_2893
16694	MEAT_QUALITY	SsSNP2006_1546
16695	MEAT_QUALITY	SsSNP2006_1758

TABLE 2

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1	SsSNP2006_1	224	A	G
SEQ ID NO:2	SsSNP2006_2	205	C	T
SEQ ID NO:3	SsSNP2006_3	75	C	G
SEQ ID NO:4	SsSNP2006_4	217	C	T
SEQ ID NO:5	SsSNP2006_5	97	A	C
SEQ ID NO:5	SsSNP2006_6	363	C	T
SEQ ID NO:6	SsSNP2006_7	437	A	G
SEQ ID NO:7	SsSNP2006_8	413	C	T
SEQ ID NO:8	SsSNP2006_9	55	A	G
SEQ ID NO:9	SsSNP2006_10	76	A	T
SEQ ID NO:10	SsSNP2006_11	109	A	G
SEQ ID NO:11	SsSNP2006_12	69	A	T
SEQ ID NO:12	SsSNP2006_13	402	A	G
SEQ ID NO:13	SsSNP2006_14	144	A	G
SEQ ID NO:14	SsSNP2006_15	731	C	T
SEQ ID NO:15	SsSNP2006_16	121	G	T
SEQ ID NO:15	SsSNP2006_17	145	C	T
SEQ ID NO:16	SsSNP2006_18	158	C	T
SEQ ID NO:17	SsSNP2006_19	130	A	G
SEQ ID NO:18	SsSNP2006_20	162	C	T
SEQ ID NO:18	SsSNP2006_21	352	G	T
SEQ ID NO:19	SsSNP2006_22	534	C	T
SEQ ID NO:19	SsSNP2006_23	748	C	T
SEQ ID NO:20	SsSNP2006_24	109	A	G
SEQ ID NO:21	SsSNP2006_25	553	A	G
SEQ ID NO:22	SsSNP2006_26	105	C	T
SEQ ID NO:23	SsSNP2006_27	846	A	G
SEQ ID NO:24	SsSNP2006_28	253	C	T
SEQ ID NO:25	SsSNP2006_29	411	A	G
SEQ ID NO:26	SsSNP2006_30	302	C	T
SEQ ID NO:27	SsSNP2006_31	135	A	G
SEQ ID NO:28	SsSNP2006_32	134	C	T
SEQ ID NO:28	SsSNP2006_33	457	G	T
SEQ ID NO:29	SsSNP2006_34	170	A	C
SEQ ID NO:30	SsSNP2006_35	523	A	C
SEQ ID NO:31	SsSNP2006_36	177	C	G

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SEQ ID NO:34	SsSNP2006_39	309	G	T
SEQ ID NO:35	SsSNP2006_40	120	C	G
SEQ ID NO:36	SsSNP2006_41	372	C	T
SEQ ID NO:37	SsSNP2006_42	346	A	T
SEQ ID NO:38	SsSNP2006_43	114	C	T
SEQ ID NO:39	SsSNP2006_44	279	A	G
SEQ ID NO:40	SsSNP2006_45	150	A	C
SEQ ID NO:41	SsSNP2006_46	379	C	T
SEQ ID NO:42	SsSNP2006_47	95	A	G
SEQ ID NO:43	SsSNP2006_48	320	A	G
SEQ ID NO:44	SsSNP2006_49	299	A	G
SEQ ID NO:45	SsSNP2006_50	277	C	T
SEQ ID NO:46	SsSNP2006_51	119	C	T
SEQ ID NO:47	SsSNP2006_52	207	C	G
SEQ ID NO:48	SsSNP2006_53	173	A	G
SEQ ID NO:49	SsSNP2006_54	346	A	G
SEQ ID NO:50	SsSNP2006_55	56	A	G
SEQ ID NO:51	SsSNP2006_56	411	G	T
SEQ ID NO:52	SsSNP2006_57	158	A	C
SEQ ID NO:53	SsSNP2006_58	260	C	T
SEQ ID NO:54	SsSNP2006_59	201	A	G
SEQ ID NO:55	SsSNP2006_60	122	C	T
SEQ ID NO:55	SsSNP2006_61	307	A	G
SEQ ID NO:56	SsSNP2006_62	376	C	T
SEQ ID NO:57	SsSNP2006_63	380	C	T
SEQ ID NO:58	SsSNP2006_64	403	C	T
SEQ ID NO:59	SsSNP2006_65	361	A	G
SEQ ID NO:60	SsSNP2006_66	48	A	C
SEQ ID NO:61	SsSNP2006_67	55	A	G
SEQ ID NO:62	SsSNP2006_68	433	A	G
SEQ ID NO:63	SsSNP2006_69	496	A	G
SEQ ID NO:64	SsSNP2006_70	131	A	G
SEQ ID NO:65	SsSNP2006_71	226	C	G
SEQ ID NO:66	SsSNP2006_72	267	G	T
SEQ ID NO:67	SsSNP2006_73	98	A	C
SEQ ID NO:67	SsSNP2006_74	229	C	T
SEQ ID NO:68	SsSNP2006_75	61	C	T
SEQ ID NO:69	SsSNP2006_76	1070	C	T
SEQ ID NO:70	SsSNP2006_77	721	A	G
SEQ ID NO:71	SsSNP2006_78	328	A	C
SEQ ID NO:72	SsSNP2006_79	137	A	C
SEQ ID NO:73	SsSNP2006_80	491	C	T
SEQ ID NO:74	SsSNP2006_81	135	C	T
SEQ ID NO:75	SsSNP2006_82	361	C	T
SEQ ID NO:76	SsSNP2006_83	277	A	G
SEQ ID NO:77	SsSNP2006_84	152	A	G
SEQ ID NO:78	SsSNP2006_85	397	A	G
SEQ ID NO:79	SsSNP2006_86	177	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
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SEQ ID NO:81	SsSNP2006_88	283	C	T
SEQ ID NO:82	SsSNP2006_89	466	A	T
SEQ ID NO:82	SsSNP2006_90	584	C	G
SEQ ID NO:83	SsSNP2006_91	281	A	G
SEQ ID NO:84	SsSNP2006_92	419	C	T
SEQ ID NO:85	SsSNP2006_93	244	C	T
SEQ ID NO:86	SsSNP2006_94	336	A	C
SEQ ID NO:87	SsSNP2006_95	185	A	G
SEQ ID NO:88	SsSNP2006_96	166	C	T
SEQ ID NO:89	SsSNP2006_97	204	A	G
SEQ ID NO:90	SsSNP2006_98	235	C	T
SEQ ID NO:91	SsSNP2006_99	263	A	T
SEQ ID NO:92	SsSNP2006_100	318	C	T
SEQ ID NO:93	SsSNP2006_101	253	C	T
SEQ ID NO:94	SsSNP2006_102	136	C	T
SEQ ID NO:95	SsSNP2006_103	133	C	T
SEQ ID NO:96	SsSNP2006_104	179	G	T
SEQ ID NO:97	SsSNP2006_105	491	A	G
SEQ ID NO:98	SsSNP2006_106	319	C	G
SEQ ID NO:99	SsSNP2006_107	356	A	G
SEQ ID NO:100	SsSNP2006_108	330	A	G
SEQ ID NO:101	SsSNP2006_109	302	C	T
SEQ ID NO:102	SsSNP2006_110	266	C	T
SEQ ID NO:103	SsSNP2006_111	418	C	T
SEQ ID NO:104	SsSNP2006_112	156	C	T
SEQ ID NO:105	SsSNP2006_113	127	A	G
SEQ ID NO:106	SsSNP2006_114	215	A	G
SEQ ID NO:107	SsSNP2006_115	128	A	T
SEQ ID NO:108	SsSNP2006_116	162	A	T
SEQ ID NO:109	SsSNP2006_117	331	A	G
SEQ ID NO:110	SsSNP2006_118	243	C	T
SEQ ID NO:111	SsSNP2006_119	317	C	T
SEQ ID NO:112	SsSNP2006_120	193	C	T
SEQ ID NO:113	SsSNP2006_121	126	A	G
SEQ ID NO:114	SsSNP2006_122	218	G	T
SEQ ID NO:115	SsSNP2006_123	261	C	T
SEQ ID NO:116	SsSNP2006_124	408	G	T
SEQ ID NO:117	SsSNP2006_125	227	A	G
SEQ ID NO:117	SsSNP2006_126	481	A	G
SEQ ID NO:118	SsSNP2006_127	362	C	T
SEQ ID NO:119	SsSNP2006_128	246	A	G
SEQ ID NO:119	SsSNP2006_129	477	A	T
SEQ ID NO:120	SsSNP2006_130	174	C	T
SEQ ID NO:121	SsSNP2006_131	544	A	G
SEQ ID NO:122	SsSNP2006_132	77	A	G
SEQ ID NO:123	SsSNP2006_133	237	C	T
SEQ ID NO:124	SsSNP2006_134	410	C	T
SEQ ID NO:125	SsSNP2006_135	472	C	T
SEQ ID NO:126	SsSNP2006_136	266	C	T

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:127	SsSNP2006_137	166	A	C
SEQ ID NO:128	SsSNP2006_138	419	A	G
SEQ ID NO:129	SsSNP2006_139	360	C	T
SEQ ID NO:130	SsSNP2006_140	305	A	T
SEQ ID NO:131	SsSNP2006_141	428	A	T
SEQ ID NO:132	SsSNP2006_142	283	G	T
SEQ ID NO:133	SsSNP2006_143	202	A	G
SEQ ID NO:134	SsSNP2006_144	432	C	T
SEQ ID NO:135	SsSNP2006_145	388	C	T
SEQ ID NO:136	SsSNP2006_146	179	G	T
SEQ ID NO:136	SsSNP2006_147	385	C	G
SEQ ID NO:137	SsSNP2006_148	501	C	T
SEQ ID NO:138	SsSNP2006_149	239	C	G
SEQ ID NO:139	SsSNP2006_150	192	C	T
SEQ ID NO:140	SsSNP2006_151	182	C	T
SEQ ID NO:141	SsSNP2006_152	320	A	T
SEQ ID NO:142	SsSNP2006_153	194	C	T
SEQ ID NO:143	SsSNP2006_154	116	C	G
SEQ ID NO:144	SsSNP2006_155	236	C	T
SEQ ID NO:145	SsSNP2006_156	470	A	C
SEQ ID NO:146	SsSNP2006_157	119	C	T
SEQ ID NO:147	SsSNP2006_158	138	C	T
SEQ ID NO:147	SsSNP2006_159	304	C	T
SEQ ID NO:148	SsSNP2006_160	428	C	T
SEQ ID NO:149	SsSNP2006_161	272	A	G
SEQ ID NO:150	SsSNP2006_162	204	C	T
SEQ ID NO:151	SsSNP2006_163	339	A	G
SEQ ID NO:152	SsSNP2006_164	298	C	T
SEQ ID NO:153	SsSNP2006_165	470	A	G
SEQ ID NO:154	SsSNP2006_166	415	A	G
SEQ ID NO:155	SsSNP2006_167	342	G	T
SEQ ID NO:156	SsSNP2006_168	203	C	T
SEQ ID NO:157	SsSNP2006_169	232	A	G
SEQ ID NO:158	SsSNP2006_170	271	A	G
SEQ ID NO:159	SsSNP2006_171	268	C	T
SEQ ID NO:160	SsSNP2006_172	99	A	G
SEQ ID NO:161	SsSNP2006_173	187	C	T
SEQ ID NO:162	SsSNP2006_174	248	C	T
SEQ ID NO:163	SsSNP2006_175	114	A	T
SEQ ID NO:164	SsSNP2006_176	120	C	T
SEQ ID NO:165	SsSNP2006_177	125	C	T
SEQ ID NO:165	SsSNP2006_178	317	A	T
SEQ ID NO:166	SsSNP2006_179	346	C	T
SEQ ID NO:167	SsSNP2006_180	212	A	G
SEQ ID NO:168	SsSNP2006_181	235	A	G
SEQ ID NO:169	SsSNP2006_182	382	A	G
SEQ ID NO:170	SsSNP2006_183	380	C	T
SEQ ID NO:171	SsSNP2006_184	494	A	G
SEQ ID NO:172	SsSNP2006_185	473	A	G
SEQ ID NO:173	SsSNP2006_186	357	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:174	SsSNP2006_187	221	C	T
SEQ ID NO:175	SsSNP2006_188	120	C	T
SEQ ID NO:176	SsSNP2006_189	261	C	T
SEQ ID NO:177	SsSNP2006_190	298	A	G
SEQ ID NO:177	SsSNP2006_191	619	A	G
SEQ ID NO:178	SsSNP2006_192	144	C	T
SEQ ID NO:179	SsSNP2006_193	364	A	G
SEQ ID NO:180	SsSNP2006_194	172	A	G
SEQ ID NO:181	SsSNP2006_195	199	A	C
SEQ ID NO:182	SsSNP2006_196	144	A	G
SEQ ID NO:183	SsSNP2006_197	109	A	G
SEQ ID NO:184	SsSNP2006_198	265	A	G
SEQ ID NO:185	SsSNP2006_199	243	G	T
SEQ ID NO:186	SsSNP2006_200	270	A	T
SEQ ID NO:187	SsSNP2006_201	372	A	G
SEQ ID NO:188	SsSNP2006_202	185	C	T
SEQ ID NO:189	SsSNP2006_203	283	C	T
SEQ ID NO:190	SsSNP2006_204	122	C	G
SEQ ID NO:191	SsSNP2006_205	101	A	G
SEQ ID NO:192	SsSNP2006_206	313	A	G
SEQ ID NO:193	SsSNP2006_207	240	A	C
SEQ ID NO:194	SsSNP2006_208	277	A	G
SEQ ID NO:195	SsSNP2006_209	96	C	T
SEQ ID NO:196	SsSNP2006_210	166	C	G
SEQ ID NO:197	SsSNP2006_211	363	C	T
SEQ ID NO:198	SsSNP2006_212	188	A	G
SEQ ID NO:199	SsSNP2006_213	258	A	G
SEQ ID NO:200	SsSNP2006_214	277	C	T
SEQ ID NO:201	SsSNP2006_215	164	A	G
SEQ ID NO:202	SsSNP2006_216	310	A	G
SEQ ID NO:203	SsSNP2006_217	152	C	T
SEQ ID NO:204	SsSNP2006_218	192	C	T
SEQ ID NO:205	SsSNP2006_219	177	C	G
SEQ ID NO:206	SsSNP2006_220	287	A	G
SEQ ID NO:207	SsSNP2006_221	379	G	T
SEQ ID NO:208	SsSNP2006_222	359	C	T
SEQ ID NO:209	SsSNP2006_223	312	A	G
SEQ ID NO:210	SsSNP2006_224	145	C	T
SEQ ID NO:211	SsSNP2006_225	288	C	T
SEQ ID NO:212	SsSNP2006_226	306	A	G
SEQ ID NO:213	SsSNP2006_227	184	A	C
SEQ ID NO:214	SsSNP2006_228	105	A	C
SEQ ID NO:215	SsSNP2006_229	226	C	T
SEQ ID NO:216	SsSNP2006_230	144	C	G
SEQ ID NO:217	SsSNP2006_231	144	C	T
SEQ ID NO:218	SsSNP2006_232	216	C	G
SEQ ID NO:219	SsSNP2006_233	107	A	G
SEQ ID NO:220	SsSNP2006_234	234	A	T
SEQ ID NO:221	SsSNP2006_235	208	C	T
SEQ ID NO:222	SsSNP2006_236	151	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:223	SsSNP2006_237	152	C	T
SEQ ID NO:224	SsSNP2006_238	117	C	T
SEQ ID NO:225	SsSNP2006_239	285	C	T
SEQ ID NO:226	SsSNP2006_240	323	C	T
SEQ ID NO:227	SsSNP2006_241	202	C	T
SEQ ID NO:228	SsSNP2006_242	362	C	G
SEQ ID NO:229	SsSNP2006_243	147	A	G
SEQ ID NO:230	SsSNP2006_244	306	A	G
SEQ ID NO:231	SsSNP2006_245	238	C	G
SEQ ID NO:232	SsSNP2006_246	175	A	G
SEQ ID NO:233	SsSNP2006_247	252	C	T
SEQ ID NO:234	SsSNP2006_248	221	A	T
SEQ ID NO:234	SsSNP2006_249	238	A	G
SEQ ID NO:235	SsSNP2006_250	174	A	G
SEQ ID NO:236	SsSNP2006_251	380	A	G
SEQ ID NO:237	SsSNP2006_252	336	C	T
SEQ ID NO:238	SsSNP2006_253	220	C	T
SEQ ID NO:239	SsSNP2006_254	219	A	C
SEQ ID NO:240	SsSNP2006_255	114	C	T
SEQ ID NO:241	SsSNP2006_256	277	A	G
SEQ ID NO:242	SsSNP2006_257	215	C	G
SEQ ID NO:243	SsSNP2006_258	197	A	G
SEQ ID NO:244	SsSNP2006_259	310	C	T
SEQ ID NO:245	SsSNP2006_260	316	C	T
SEQ ID NO:246	SsSNP2006_261	107	A	G
SEQ ID NO:247	SsSNP2006_262	187	A	G
SEQ ID NO:248	SsSNP2006_263	489	A	G
SEQ ID NO:249	SsSNP2006_264	164	C	T
SEQ ID NO:250	SsSNP2006_265	286	G	T
SEQ ID NO:251	SsSNP2006_266	374	C	T
SEQ ID NO:252	SsSNP2006_267	330	A	G
SEQ ID NO:253	SsSNP2006_268	98	A	G
SEQ ID NO:254	SsSNP2006_269	171	C	T
SEQ ID NO:254	SsSNP2006_270	335	A	G
SEQ ID NO:255	SsSNP2006_271	318	A	G
SEQ ID NO:256	SsSNP2006_272	127	A	C
SEQ ID NO:257	SsSNP2006_273	280	A	G
SEQ ID NO:258	SsSNP2006_274	369	A	G
SEQ ID NO:259	SsSNP2006_275	321	C	T
SEQ ID NO:260	SsSNP2006_276	223	A	G
SEQ ID NO:261	SsSNP2006_277	191	A	G
SEQ ID NO:262	SsSNP2006_278	452	A	G
SEQ ID NO:263	SsSNP2006_279	149	A	G
SEQ ID NO:264	SsSNP2006_280	133	C	T
SEQ ID NO:265	SsSNP2006_281	224	A	G
SEQ ID NO:266	SsSNP2006_282	306	A	G
SEQ ID NO:267	SsSNP2006_283	252	C	G
SEQ ID NO:268	SsSNP2006_284	316	C	T
SEQ ID NO:269	SsSNP2006_285	200	C	T
SEQ ID NO:270	SsSNP2006_286	315	C	T

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:271	SsSNP2006_287	273	C	G
SEQ ID NO:272	SsSNP2006_288	252	G	T
SEQ ID NO:273	SsSNP2006_289	242	A	G
SEQ ID NO:274	SsSNP2006_290	151	A	G
SEQ ID NO:275	SsSNP2006_291	236	A	C
SEQ ID NO:276	SsSNP2006_292	208	G	T
SEQ ID NO:277	SsSNP2006_293	460	A	G
SEQ ID NO:278	SsSNP2006_294	507	C	T
SEQ ID NO:279	SsSNP2006_295	326	C	T
SEQ ID NO:280	SsSNP2006_296	240	A	G
SEQ ID NO:281	SsSNP2006_297	228	A	G
SEQ ID NO:282	SsSNP2006_298	312	C	T
SEQ ID NO:283	SsSNP2006_299	434	C	T
SEQ ID NO:284	SsSNP2006_300	212	A	C
SEQ ID NO:285	SsSNP2006_301	195	A	G
SEQ ID NO:286	SsSNP2006_302	226	C	T
SEQ ID NO:287	SsSNP2006_303	383	C	T
SEQ ID NO:288	SsSNP2006_304	106	A	C
SEQ ID NO:289	SsSNP2006_305	304	C	T
SEQ ID NO:290	SsSNP2006_306	103	G	T
SEQ ID NO:291	SsSNP2006_307	370	C	T
SEQ ID NO:292	SsSNP2006_308	322	C	G
SEQ ID NO:293	SsSNP2006_309	82	C	T
SEQ ID NO:294	SsSNP2006_310	397	A	G
SEQ ID NO:295	SsSNP2006_311	143	A	G
SEQ ID NO:296	SsSNP2006_312	144	C	T
SEQ ID NO:297	SsSNP2006_313	92	A	G
SEQ ID NO:298	SsSNP2006_314	453	G	T
SEQ ID NO:299	SsSNP2006_315	119	G	T
SEQ ID NO:300	SsSNP2006_316	200	C	T
SEQ ID NO:301	SsSNP2006_317	228	G	T
SEQ ID NO:302	SsSNP2006_318	205	A	G
SEQ ID NO:303	SsSNP2006_319	538	C	T
SEQ ID NO:304	SsSNP2006_320	120	C	G
SEQ ID NO:305	SsSNP2006_321	239	C	T
SEQ ID NO:306	SsSNP2006_322	276	A	G
SEQ ID NO:307	SsSNP2006_323	237	C	T
SEQ ID NO:308	SsSNP2006_324	453	C	T
SEQ ID NO:309	SsSNP2006_325	276	A	T
SEQ ID NO:310	SsSNP2006_326	345	A	G
SEQ ID NO:311	SsSNP2006_327	486	A	G
SEQ ID NO:312	SsSNP2006_328	251	A	G
SEQ ID NO:313	SsSNP2006_329	149	C	T
SEQ ID NO:314	SsSNP2006_330	319	A	G
SEQ ID NO:315	SsSNP2006_331	111	C	T
SEQ ID NO:316	SsSNP2006_332	174	C	T
SEQ ID NO:317	SsSNP2006_333	507	A	G
SEQ ID NO:318	SsSNP2006_334	414	A	G
SEQ ID NO:319	SsSNP2006_335	121	C	T
SEQ ID NO:320	SsSNP2006_336	265	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:321	SsSNP2006_337	103	A	G
SEQ ID NO:322	SsSNP2006_338	318	A	G
SEQ ID NO:323	SsSNP2006_339	304	C	T
SEQ ID NO:324	SsSNP2006_340	112	A	G
SEQ ID NO:325	SsSNP2006_341	92	C	T
SEQ ID NO:326	SsSNP2006_342	157	A	G
SEQ ID NO:327	SsSNP2006_343	226	A	G
SEQ ID NO:328	SsSNP2006_344	95	A	G
SEQ ID NO:329	SsSNP2006_345	331	A	G
SEQ ID NO:330	SsSNP2006_346	147	C	T
SEQ ID NO:331	SsSNP2006_347	267	C	T
SEQ ID NO:332	SsSNP2006_348	509	A	G
SEQ ID NO:333	SsSNP2006_349	317	C	T
SEQ ID NO:334	SsSNP2006_350	285	C	T
SEQ ID NO:335	SsSNP2006_351	258	G	T
SEQ ID NO:336	SsSNP2006_352	245	A	G
SEQ ID NO:337	SsSNP2006_353	505	C	T
SEQ ID NO:338	SsSNP2006_354	113	C	T
SEQ ID NO:339	SsSNP2006_355	151	G	T
SEQ ID NO:340	SsSNP2006_356	125	A	G
SEQ ID NO:341	SsSNP2006_357	105	G	T
SEQ ID NO:342	SsSNP2006_358	478	A	C
SEQ ID NO:343	SsSNP2006_359	471	A	G
SEQ ID NO:344	SsSNP2006_360	298	C	T
SEQ ID NO:345	SsSNP2006_361	145	A	G
SEQ ID NO:346	SsSNP2006_362	368	C	T
SEQ ID NO:347	SsSNP2006_363	148	C	T
SEQ ID NO:348	SsSNP2006_364	437	C	T
SEQ ID NO:349	SsSNP2006_365	273	C	T
SEQ ID NO:350	SsSNP2006_366	301	G	T
SEQ ID NO:351	SsSNP2006_367	219	C	T
SEQ ID NO:352	SsSNP2006_368	133	C	T
SEQ ID NO:353	SsSNP2006_369	538	A	G
SEQ ID NO:354	SsSNP2006_370	145	A	G
SEQ ID NO:355	SsSNP2006_371	132	A	C
SEQ ID NO:356	SsSNP2006_372	570	C	T
SEQ ID NO:357	SsSNP2006_373	179	A	C
SEQ ID NO:358	SsSNP2006_374	265	A	G
SEQ ID NO:359	SsSNP2006_375	465	C	G
SEQ ID NO:360	SsSNP2006_376	119	A	G
SEQ ID NO:361	SsSNP2006_377	175	A	G
SEQ ID NO:362	SsSNP2006_378	105	A	G
SEQ ID NO:363	SsSNP2006_379	247	C	T
SEQ ID NO:364	SsSNP2006_380	274	A	C
SEQ ID NO:365	SsSNP2006_381	210	C	T
SEQ ID NO:366	SsSNP2006_382	282	A	G
SEQ ID NO:367	SsSNP2006_383	227	C	T
SEQ ID NO:368	SsSNP2006_384	413	C	G
SEQ ID NO:369	SsSNP2006_385	312	C	T
SEQ ID NO:370	SsSNP2006_386	309	C	T

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:371	SsSNP2006_387	170	C	G
SEQ ID NO:372	SsSNP2006_388	300	C	G
SEQ ID NO:373	SsSNP2006_389	515	A	G
SEQ ID NO:374	SsSNP2006_390	589	A	G
SEQ ID NO:375	SsSNP2006_391	231	A	G
SEQ ID NO:376	SsSNP2006_392	197	C	T
SEQ ID NO:377	SsSNP2006_393	215	C	T
SEQ ID NO:378	SsSNP2006_394	251	C	T
SEQ ID NO:379	SsSNP2006_395	84	C	G
SEQ ID NO:380	SsSNP2006_396	171	A	G
SEQ ID NO:381	SsSNP2006_397	418	A	G
SEQ ID NO:382	SsSNP2006_398	315	C	T
SEQ ID NO:383	SsSNP2006_399	204	C	T
SEQ ID NO:384	SsSNP2006_400	505	C	T
SEQ ID NO:385	SsSNP2006_401	346	C	T
SEQ ID NO:386	SsSNP2006_402	200	C	T
SEQ ID NO:387	SsSNP2006_403	471	C	G
SEQ ID NO:388	SsSNP2006_404	329	A	C
SEQ ID NO:389	SsSNP2006_405	389	A	C
SEQ ID NO:390	SsSNP2006_406	510	A	T
SEQ ID NO:391	SsSNP2006_407	240	C	T
SEQ ID NO:392	SsSNP2006_408	185	C	T
SEQ ID NO:393	SsSNP2006_409	280	C	T
SEQ ID NO:394	SsSNP2006_410	316	A	G
SEQ ID NO:395	SsSNP2006_411	114	C	T
SEQ ID NO:396	SsSNP2006_412	274	A	G
SEQ ID NO:397	SsSNP2006_413	374	C	G
SEQ ID NO:398	SsSNP2006_414	172	C	T
SEQ ID NO:399	SsSNP2006_415	311	G	T
SEQ ID NO:400	SsSNP2006_416	230	C	T
SEQ ID NO:401	SsSNP2006_417	4017	A	G
SEQ ID NO:401	SsSNP2006_418	4210	C	T
SEQ ID NO:401	SsSNP2006_419	4612	C	T
SEQ ID NO:401	SsSNP2006_420	4707	C	T
SEQ ID NO:402	SsSNP2006_421	121	A	G
SEQ ID NO:403	SsSNP2006_422	121	A	G
SEQ ID NO:404	SsSNP2006_423	121	A	G
SEQ ID NO:405	SsSNP2006_424	121	A	G
SEQ ID NO:406	SsSNP2006_425	121	A	G
SEQ ID NO:407	SsSNP2006_426	121	A	C
SEQ ID NO:408	SsSNP2006_427	121	C	G
SEQ ID NO:409	SsSNP2006_428	121	A	G
SEQ ID NO:410	SsSNP2006_429	121	A	G
SEQ ID NO:411	SsSNP2006_430	121	A	G
SEQ ID NO:412	SsSNP2006_431	121	A	G
SEQ ID NO:413	SsSNP2006_432	121	C	G
SEQ ID NO:414	SsSNP2006_433	121	A	G
SEQ ID NO:415	SsSNP2006_434	121	A	G
SEQ ID NO:416	SsSNP2006_435	121	A	G
SEQ ID NO:417	SsSNP2006_436	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:418	SsSNP2006_437	121	A	G
SEQ ID NO:419	SsSNP2006_438	121	A	G
SEQ ID NO:420	SsSNP2006_439	121	A	C
SEQ ID NO:421	SsSNP2006_440	121	A	G
SEQ ID NO:422	SsSNP2006_441	121	C	G
SEQ ID NO:423	SsSNP2006_442	121	C	G
SEQ ID NO:424	SsSNP2006_443	121	A	G
SEQ ID NO:425	SsSNP2006_444	121	A	C
SEQ ID NO:426	SsSNP2006_445	121	A	G
SEQ ID NO:427	SsSNP2006_446	121	A	C
SEQ ID NO:428	SsSNP2006_447	121	A	G
SEQ ID NO:429	SsSNP2006_448	121	A	G
SEQ ID NO:430	SsSNP2006_449	121	A	C
SEQ ID NO:431	SsSNP2006_450	121	A	G
SEQ ID NO:432	SsSNP2006_451	121	C	G
SEQ ID NO:433	SsSNP2006_452	121	A	G
SEQ ID NO:434	SsSNP2006_453	121	A	G
SEQ ID NO:435	SsSNP2006_454	121	A	T
SEQ ID NO:436	SsSNP2006_455	121	A	G
SEQ ID NO:437	SsSNP2006_456	121	A	C
SEQ ID NO:438	SsSNP2006_457	121	A	G
SEQ ID NO:439	SsSNP2006_458	121	A	G
SEQ ID NO:440	SsSNP2006_459	121	A	C
SEQ ID NO:441	SsSNP2006_460	121	A	G
SEQ ID NO:442	SsSNP2006_461	121	A	G
SEQ ID NO:443	SsSNP2006_462	121	A	C
SEQ ID NO:444	SsSNP2006_463	121	A	G
SEQ ID NO:445	SsSNP2006_464	121	A	G
SEQ ID NO:446	SsSNP2006_465	121	A	G
SEQ ID NO:447	SsSNP2006_466	121	A	G
SEQ ID NO:448	SsSNP2006_467	121	A	C
SEQ ID NO:449	SsSNP2006_468	121	A	G
SEQ ID NO:450	SsSNP2006_469	121	A	G
SEQ ID NO:451	SsSNP2006_470	121	A	G
SEQ ID NO:452	SsSNP2006_471	121	A	G
SEQ ID NO:453	SsSNP2006_472	121	A	G
SEQ ID NO:454	SsSNP2006_473	121	A	G
SEQ ID NO:455	SsSNP2006_474	121	A	G
SEQ ID NO:456	SsSNP2006_475	121	A	G
SEQ ID NO:457	SsSNP2006_476	121	C	G
SEQ ID NO:458	SsSNP2006_477	121	A	G
SEQ ID NO:459	SsSNP2006_478	121	A	G
SEQ ID NO:460	SsSNP2006_479	121	A	G
SEQ ID NO:461	SsSNP2006_480	121	A	C
SEQ ID NO:462	SsSNP2006_481	121	A	G
SEQ ID NO:463	SsSNP2006_482	121	A	G
SEQ ID NO:464	SsSNP2006_483	121	A	C
SEQ ID NO:465	SsSNP2006_484	121	A	G
SEQ ID NO:466	SsSNP2006_485	121	A	C
SEQ ID NO:467	SsSNP2006_486	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:468	SsSNP2006_487	121	A	G
SEQ ID NO:469	SsSNP2006_488	121	A	C
SEQ ID NO:470	SsSNP2006_489	121	A	C
SEQ ID NO:471	SsSNP2006_490	121	A	C
SEQ ID NO:472	SsSNP2006_491	121	A	G
SEQ ID NO:473	SsSNP2006_492	121	C	G
SEQ ID NO:474	SsSNP2006_493	121	C	G
SEQ ID NO:475	SsSNP2006_494	121	A	G
SEQ ID NO:476	SsSNP2006_495	121	A	C
SEQ ID NO:477	SsSNP2006_496	121	A	G
SEQ ID NO:478	SsSNP2006_497	121	A	G
SEQ ID NO:479	SsSNP2006_498	121	A	T
SEQ ID NO:480	SsSNP2006_499	121	A	G
SEQ ID NO:481	SsSNP2006_500	121	A	T
SEQ ID NO:482	SsSNP2006_501	121	A	C
SEQ ID NO:483	SsSNP2006_502	121	A	G
SEQ ID NO:484	SsSNP2006_503	121	A	G
SEQ ID NO:485	SsSNP2006_504	121	A	G
SEQ ID NO:486	SsSNP2006_505	121	A	G
SEQ ID NO:487	SsSNP2006_506	121	A	C
SEQ ID NO:488	SsSNP2006_507	121	A	G
SEQ ID NO:489	SsSNP2006_508	121	C	G
SEQ ID NO:490	SsSNP2006_509	121	A	T
SEQ ID NO:491	SsSNP2006_510	121	A	G
SEQ ID NO:492	SsSNP2006_511	121	C	G
SEQ ID NO:493	SsSNP2006_512	121	A	G
SEQ ID NO:494	SsSNP2006_513	121	A	G
SEQ ID NO:495	SsSNP2006_514	121	A	G
SEQ ID NO:496	SsSNP2006_515	121	A	C
SEQ ID NO:497	SsSNP2006_516	121	A	G
SEQ ID NO:498	SsSNP2006_517	121	C	G
SEQ ID NO:499	SsSNP2006_518	121	A	G
SEQ ID NO:500	SsSNP2006_519	121	A	G
SEQ ID NO:501	SsSNP2006_520	33	A	G
SEQ ID NO:502	SsSNP2006_521	121	A	G
SEQ ID NO:503	SsSNP2006_522	121	A	G
SEQ ID NO:504	SsSNP2006_523	121	A	G
SEQ ID NO:505	SsSNP2006_524	121	A	G
SEQ ID NO:506	SsSNP2006_525	121	A	G
SEQ ID NO:507	SsSNP2006_526	121	A	G
SEQ ID NO:508	SsSNP2006_527	121	A	G
SEQ ID NO:509	SsSNP2006_528	121	A	T
SEQ ID NO:510	SsSNP2006_529	121	A	G
SEQ ID NO:511	SsSNP2006_530	121	A	T
SEQ ID NO:512	SsSNP2006_531	121	A	G
SEQ ID NO:513	SsSNP2006_532	121	A	G
SEQ ID NO:514	SsSNP2006_533	121	A	G
SEQ ID NO:515	SsSNP2006_534	121	A	G
SEQ ID NO:516	SsSNP2006_535	121	A	G
SEQ ID NO:517	SsSNP2006_536	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:518	SsSNP2006_537	121	A	G
SEQ ID NO:519	SsSNP2006_538	121	A	G
SEQ ID NO:520	SsSNP2006_539	121	A	G
SEQ ID NO:521	SsSNP2006_540	121	A	G
SEQ ID NO:522	SsSNP2006_541	121	A	T
SEQ ID NO:523	SsSNP2006_542	121	A	G
SEQ ID NO:524	SsSNP2006_543	121	A	G
SEQ ID NO:525	SsSNP2006_544	121	A	G
SEQ ID NO:526	SsSNP2006_545	121	A	G
SEQ ID NO:527	SsSNP2006_546	121	A	G
SEQ ID NO:528	SsSNP2006_547	121	A	G
SEQ ID NO:529	SsSNP2006_548	121	A	G
SEQ ID NO:530	SsSNP2006_549	121	A	G
SEQ ID NO:531	SsSNP2006_550	121	A	G
SEQ ID NO:532	SsSNP2006_551	121	A	G
SEQ ID NO:533	SsSNP2006_552	121	A	G
SEQ ID NO:534	SsSNP2006_553	121	A	G
SEQ ID NO:535	SsSNP2006_554	121	A	G
SEQ ID NO:536	SsSNP2006_555	121	A	G
SEQ ID NO:537	SsSNP2006_556	121	C	G
SEQ ID NO:538	SsSNP2006_557	121	A	G
SEQ ID NO:539	SsSNP2006_558	121	A	C
SEQ ID NO:540	SsSNP2006_559	121	A	G
SEQ ID NO:541	SsSNP2006_560	121	A	G
SEQ ID NO:542	SsSNP2006_561	121	A	C
SEQ ID NO:543	SsSNP2006_562	121	A	G
SEQ ID NO:544	SsSNP2006_563	121	A	G
SEQ ID NO:545	SsSNP2006_564	121	A	G
SEQ ID NO:546	SsSNP2006_565	121	A	C
SEQ ID NO:547	SsSNP2006_566	121	A	G
SEQ ID NO:548	SsSNP2006_567	121	A	G
SEQ ID NO:549	SsSNP2006_568	121	A	G
SEQ ID NO:550	SsSNP2006_569	121	A	C
SEQ ID NO:551	SsSNP2006_570	121	A	G
SEQ ID NO:552	SsSNP2006_571	121	A	G
SEQ ID NO:553	SsSNP2006_572	121	A	G
SEQ ID NO:554	SsSNP2006_573	121	A	G
SEQ ID NO:555	SsSNP2006_574	121	A	G
SEQ ID NO:556	SsSNP2006_575	121	A	G
SEQ ID NO:557	SsSNP2006_576	121	A	G
SEQ ID NO:558	SsSNP2006_577	121	A	C
SEQ ID NO:559	SsSNP2006_578	109	A	G
SEQ ID NO:560	SsSNP2006_579	121	A	G
SEQ ID NO:561	SsSNP2006_580	121	A	G
SEQ ID NO:562	SsSNP2006_581	121	A	G
SEQ ID NO:563	SsSNP2006_582	121	A	G
SEQ ID NO:564	SsSNP2006_583	121	A	G
SEQ ID NO:565	SsSNP2006_584	121	A	C
SEQ ID NO:566	SsSNP2006_585	121	A	G
SEQ ID NO:567	SsSNP2006_586	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:568	SsSNP2006_587	121	A	G
SEQ ID NO:569	SsSNP2006_588	121	A	T
SEQ ID NO:570	SsSNP2006_589	121	A	G
SEQ ID NO:571	SsSNP2006_590	121	A	C
SEQ ID NO:572	SsSNP2006_591	121	A	G
SEQ ID NO:573	SsSNP2006_592	121	A	G
SEQ ID NO:574	SsSNP2006_593	121	A	G
SEQ ID NO:575	SsSNP2006_594	121	A	G
SEQ ID NO:576	SsSNP2006_595	121	A	C
SEQ ID NO:577	SsSNP2006_596	121	A	G
SEQ ID NO:578	SsSNP2006_597	121	A	T
SEQ ID NO:579	SsSNP2006_598	121	A	G
SEQ ID NO:580	SsSNP2006_599	121	A	C
SEQ ID NO:581	SsSNP2006_600	121	A	G
SEQ ID NO:582	SsSNP2006_601	121	C	G
SEQ ID NO:583	SsSNP2006_602	121	A	G
SEQ ID NO:584	SsSNP2006_603	121	A	G
SEQ ID NO:585	SsSNP2006_604	121	A	G
SEQ ID NO:586	SsSNP2006_605	121	A	G
SEQ ID NO:587	SsSNP2006_606	121	A	G
SEQ ID NO:588	SsSNP2006_607	121	A	G
SEQ ID NO:589	SsSNP2006_608	121	A	G
SEQ ID NO:590	SsSNP2006_609	121	A	G
SEQ ID NO:591	SsSNP2006_610	121	A	G
SEQ ID NO:592	SsSNP2006_611	121	A	T
SEQ ID NO:593	SsSNP2006_612	121	A	G
SEQ ID NO:594	SsSNP2006_613	121	A	G
SEQ ID NO:595	SsSNP2006_614	121	A	T
SEQ ID NO:596	SsSNP2006_615	121	A	G
SEQ ID NO:597	SsSNP2006_616	121	A	C
SEQ ID NO:598	SsSNP2006_617	121	A	G
SEQ ID NO:599	SsSNP2006_618	121	A	G
SEQ ID NO:600	SsSNP2006_619	121	A	C
SEQ ID NO:601	SsSNP2006_620	121	A	T
SEQ ID NO:602	SsSNP2006_621	121	A	G
SEQ ID NO:603	SsSNP2006_622	121	C	G
SEQ ID NO:604	SsSNP2006_623	121	A	G
SEQ ID NO:605	SsSNP2006_624	121	A	T
SEQ ID NO:606	SsSNP2006_625	121	A	G
SEQ ID NO:607	SsSNP2006_626	121	A	G
SEQ ID NO:608	SsSNP2006_627	121	C	G
SEQ ID NO:609	SsSNP2006_628	121	C	G
SEQ ID NO:610	SsSNP2006_629	121	A	G
SEQ ID NO:611	SsSNP2006_630	121	A	G
SEQ ID NO:612	SsSNP2006_631	121	A	C
SEQ ID NO:613	SsSNP2006_632	121	A	T
SEQ ID NO:614	SsSNP2006_633	121	A	G
SEQ ID NO:615	SsSNP2006_634	108	A	G
SEQ ID NO:616	SsSNP2006_635	121	A	G
SEQ ID NO:617	SsSNP2006_636	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:618	SsSNP2006_637	121	A	C
SEQ ID NO:619	SsSNP2006_638	121	A	C
SEQ ID NO:620	SsSNP2006_639	121	A	G
SEQ ID NO:621	SsSNP2006_640	121	A	C
SEQ ID NO:622	SsSNP2006_641	121	A	G
SEQ ID NO:623	SsSNP2006_642	121	A	G
SEQ ID NO:624	SsSNP2006_643	121	C	G
SEQ ID NO:625	SsSNP2006_644	121	A	G
SEQ ID NO:626	SsSNP2006_645	121	A	C
SEQ ID NO:627	SsSNP2006_646	121	A	G
SEQ ID NO:628	SsSNP2006_647	121	A	G
SEQ ID NO:629	SsSNP2006_648	121	A	G
SEQ ID NO:630	SsSNP2006_649	121	A	G
SEQ ID NO:631	SsSNP2006_650	121	A	G
SEQ ID NO:632	SsSNP2006_651	121	C	G
SEQ ID NO:633	SsSNP2006_652	121	A	G
SEQ ID NO:634	SsSNP2006_653	121	A	C
SEQ ID NO:635	SsSNP2006_654	121	A	C
SEQ ID NO:636	SsSNP2006_655	121	A	G
SEQ ID NO:637	SsSNP2006_656	121	A	C
SEQ ID NO:638	SsSNP2006_657	121	A	G
SEQ ID NO:639	SsSNP2006_658	121	A	G
SEQ ID NO:640	SsSNP2006_659	121	C	G
SEQ ID NO:641	SsSNP2006_660	121	A	C
SEQ ID NO:642	SsSNP2006_661	121	A	C
SEQ ID NO:643	SsSNP2006_662	121	A	G
SEQ ID NO:644	SsSNP2006_663	121	A	G
SEQ ID NO:645	SsSNP2006_664	121	A	C
SEQ ID NO:646	SsSNP2006_665	121	A	G
SEQ ID NO:647	SsSNP2006_666	121	A	G
SEQ ID NO:648	SsSNP2006_667	121	A	G
SEQ ID NO:649	SsSNP2006_668	121	A	G
SEQ ID NO:650	SsSNP2006_669	121	A	G
SEQ ID NO:651	SsSNP2006_670	121	A	G
SEQ ID NO:652	SsSNP2006_671	121	A	G
SEQ ID NO:653	SsSNP2006_672	121	A	G
SEQ ID NO:654	SsSNP2006_673	121	A	G
SEQ ID NO:655	SsSNP2006_674	121	A	G
SEQ ID NO:656	SsSNP2006_675	121	A	C
SEQ ID NO:657	SsSNP2006_676	121	A	C
SEQ ID NO:658	SsSNP2006_677	121	A	G
SEQ ID NO:659	SsSNP2006_678	121	A	G
SEQ ID NO:660	SsSNP2006_679	121	A	G
SEQ ID NO:661	SsSNP2006_680	121	A	G
SEQ ID NO:662	SsSNP2006_681	121	A	G
SEQ ID NO:663	SsSNP2006_682	121	A	G
SEQ ID NO:664	SsSNP2006_683	121	A	G
SEQ ID NO:665	SsSNP2006_684	121	C	G
SEQ ID NO:666	SsSNP2006_685	121	A	G
SEQ ID NO:667	SsSNP2006_686	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:668	SsSNP2006_687	121	A	G
SEQ ID NO:669	SsSNP2006_688	121	A	G
SEQ ID NO:670	SsSNP2006_689	121	A	G
SEQ ID NO:671	SsSNP2006_690	121	A	G
SEQ ID NO:672	SsSNP2006_691	121	A	G
SEQ ID NO:673	SsSNP2006_692	121	A	G
SEQ ID NO:674	SsSNP2006_693	121	A	G
SEQ ID NO:675	SsSNP2006_694	121	A	G
SEQ ID NO:676	SsSNP2006_695	121	A	G
SEQ ID NO:677	SsSNP2006_696	121	A	G
SEQ ID NO:678	SsSNP2006_697	121	A	G
SEQ ID NO:679	SsSNP2006_698	121	A	G
SEQ ID NO:680	SsSNP2006_699	121	A	G
SEQ ID NO:681	SsSNP2006_700	121	C	G
SEQ ID NO:682	SsSNP2006_701	121	A	G
SEQ ID NO:683	SsSNP2006_702	121	A	T
SEQ ID NO:684	SsSNP2006_703	121	A	G
SEQ ID NO:685	SsSNP2006_704	121	A	G
SEQ ID NO:686	SsSNP2006_705	121	A	G
SEQ ID NO:687	SsSNP2006_706	121	A	G
SEQ ID NO:688	SsSNP2006_707	121	A	G
SEQ ID NO:689	SsSNP2006_708	121	A	G
SEQ ID NO:690	SsSNP2006_709	121	A	G
SEQ ID NO:691	SsSNP2006_710	121	A	G
SEQ ID NO:692	SsSNP2006_711	121	A	G
SEQ ID NO:693	SsSNP2006_712	107	A	G
SEQ ID NO:694	SsSNP2006_713	121	A	G
SEQ ID NO:695	SsSNP2006_714	121	A	G
SEQ ID NO:696	SsSNP2006_715	121	A	G
SEQ ID NO:697	SsSNP2006_716	121	C	G
SEQ ID NO:698	SsSNP2006_717	121	A	C
SEQ ID NO:699	SsSNP2006_718	121	A	G
SEQ ID NO:700	SsSNP2006_719	121	A	G
SEQ ID NO:701	SsSNP2006_720	121	A	G
SEQ ID NO:702	SsSNP2006_721	121	A	G
SEQ ID NO:703	SsSNP2006_722	121	A	G
SEQ ID NO:704	SsSNP2006_723	121	A	G
SEQ ID NO:705	SsSNP2006_724	121	A	G
SEQ ID NO:706	SsSNP2006_725	121	A	G
SEQ ID NO:707	SsSNP2006_726	121	A	C
SEQ ID NO:708	SsSNP2006_727	121	A	G
SEQ ID NO:709	SsSNP2006_728	121	C	G
SEQ ID NO:710	SsSNP2006_729	121	A	T
SEQ ID NO:711	SsSNP2006_730	121	A	G
SEQ ID NO:712	SsSNP2006_731	121	A	G
SEQ ID NO:713	SsSNP2006_732	121	A	G
SEQ ID NO:714	SsSNP2006_733	121	A	G
SEQ ID NO:715	SsSNP2006_734	121	A	C
SEQ ID NO:716	SsSNP2006_735	121	A	G
SEQ ID NO:717	SsSNP2006_736	37	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:718	SsSNP2006_737	121	A	G
SEQ ID NO:719	SsSNP2006_738	121	A	C
SEQ ID NO:720	SsSNP2006_739	121	A	G
SEQ ID NO:721	SsSNP2006_740	121	A	G
SEQ ID NO:722	SsSNP2006_741	121	A	G
SEQ ID NO:723	SsSNP2006_742	121	A	G
SEQ ID NO:724	SsSNP2006_743	121	A	G
SEQ ID NO:725	SsSNP2006_744	76	A	G
SEQ ID NO:726	SsSNP2006_745	121	A	G
SEQ ID NO:727	SsSNP2006_746	121	A	G
SEQ ID NO:728	SsSNP2006_747	121	A	C
SEQ ID NO:729	SsSNP2006_748	121	A	G
SEQ ID NO:730	SsSNP2006_749	121	A	G
SEQ ID NO:731	SsSNP2006_750	121	A	T
SEQ ID NO:732	SsSNP2006_751	121	A	G
SEQ ID NO:733	SsSNP2006_752	121	A	C
SEQ ID NO:734	SsSNP2006_753	121	A	G
SEQ ID NO:735	SsSNP2006_754	121	A	G
SEQ ID NO:736	SsSNP2006_755	121	A	G
SEQ ID NO:737	SsSNP2006_756	120	A	G
SEQ ID NO:738	SsSNP2006_757	121	C	G
SEQ ID NO:739	SsSNP2006_758	121	A	G
SEQ ID NO:740	SsSNP2006_759	121	A	C
SEQ ID NO:741	SsSNP2006_760	121	A	G
SEQ ID NO:742	SsSNP2006_761	121	A	G
SEQ ID NO:743	SsSNP2006_762	121	A	C
SEQ ID NO:744	SsSNP2006_763	121	A	T
SEQ ID NO:745	SsSNP2006_764	121	A	C
SEQ ID NO:746	SsSNP2006_765	121	A	G
SEQ ID NO:747	SsSNP2006_766	121	A	G
SEQ ID NO:748	SsSNP2006_767	121	A	C
SEQ ID NO:749	SsSNP2006_768	121	A	G
SEQ ID NO:750	SsSNP2006_769	121	A	G
SEQ ID NO:751	SsSNP2006_770	121	A	G
SEQ ID NO:752	SsSNP2006_771	121	A	G
SEQ ID NO:753	SsSNP2006_772	121	A	C
SEQ ID NO:754	SsSNP2006_773	121	A	C
SEQ ID NO:755	SsSNP2006_774	121	A	C
SEQ ID NO:756	SsSNP2006_775	121	A	C
SEQ ID NO:757	SsSNP2006_776	121	A	G
SEQ ID NO:758	SsSNP2006_777	121	A	T
SEQ ID NO:759	SsSNP2006_778	121	A	G
SEQ ID NO:760	SsSNP2006_779	121	A	G
SEQ ID NO:761	SsSNP2006_780	121	A	C
SEQ ID NO:762	SsSNP2006_781	121	A	G
SEQ ID NO:763	SsSNP2006_782	121	A	G
SEQ ID NO:764	SsSNP2006_783	121	A	T
SEQ ID NO:765	SsSNP2006_784	121	A	G
SEQ ID NO:766	SsSNP2006_785	121	A	G
SEQ ID NO:767	SsSNP2006_786	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:768	SsSNP2006_787	121	A	G
SEQ ID NO:769	SsSNP2006_788	121	C	G
SEQ ID NO:770	SsSNP2006_789	121	A	G
SEQ ID NO:771	SsSNP2006_790	121	A	G
SEQ ID NO:772	SsSNP2006_791	121	A	C
SEQ ID NO:773	SsSNP2006_792	121	A	G
SEQ ID NO:774	SsSNP2006_793	121	C	G
SEQ ID NO:775	SsSNP2006_794	121	A	G
SEQ ID NO:776	SsSNP2006_795	121	A	C
SEQ ID NO:777	SsSNP2006_796	42	A	C
SEQ ID NO:778	SsSNP2006_797	121	A	G
SEQ ID NO:779	SsSNP2006_798	121	A	C
SEQ ID NO:780	SsSNP2006_799	121	A	C
SEQ ID NO:781	SsSNP2006_800	121	A	G
SEQ ID NO:782	SsSNP2006_801	121	A	G
SEQ ID NO:783	SsSNP2006_802	121	A	C
SEQ ID NO:784	SsSNP2006_803	121	A	G
SEQ ID NO:785	SsSNP2006_804	121	A	G
SEQ ID NO:786	SsSNP2006_805	121	A	G
SEQ ID NO:787	SsSNP2006_806	121	A	G
SEQ ID NO:788	SsSNP2006_807	121	A	G
SEQ ID NO:789	SsSNP2006_808	121	A	C
SEQ ID NO:790	SsSNP2006_809	121	A	G
SEQ ID NO:791	SsSNP2006_810	121	C	G
SEQ ID NO:792	SsSNP2006_811	121	A	G
SEQ ID NO:793	SsSNP2006_812	121	A	G
SEQ ID NO:794	SsSNP2006_813	121	A	G
SEQ ID NO:795	SsSNP2006_814	121	A	G
SEQ ID NO:796	SsSNP2006_815	121	A	G
SEQ ID NO:797	SsSNP2006_816	121	A	G
SEQ ID NO:798	SsSNP2006_817	121	A	G
SEQ ID NO:799	SsSNP2006_818	121	A	G
SEQ ID NO:800	SsSNP2006_819	121	A	C
SEQ ID NO:801	SsSNP2006_820	121	A	G
SEQ ID NO:802	SsSNP2006_821	121	A	G
SEQ ID NO:803	SsSNP2006_822	121	A	G
SEQ ID NO:804	SsSNP2006_823	121	A	G
SEQ ID NO:805	SsSNP2006_824	121	A	G
SEQ ID NO:806	SsSNP2006_825	121	A	G
SEQ ID NO:807	SsSNP2006_826	121	C	G
SEQ ID NO:808	SsSNP2006_827	121	A	G
SEQ ID NO:809	SsSNP2006_828	121	A	G
SEQ ID NO:810	SsSNP2006_829	121	A	G
SEQ ID NO:811	SsSNP2006_830	121	A	G
SEQ ID NO:812	SsSNP2006_831	121	A	T
SEQ ID NO:813	SsSNP2006_832	121	A	G
SEQ ID NO:814	SsSNP2006_833	121	A	C
SEQ ID NO:815	SsSNP2006_834	121	A	G
SEQ ID NO:816	SsSNP2006_835	121	A	G
SEQ ID NO:817	SsSNP2006_836	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:818	SsSNP2006_837	121	A	G
SEQ ID NO:819	SsSNP2006_838	121	A	G
SEQ ID NO:820	SsSNP2006_839	121	A	G
SEQ ID NO:821	SsSNP2006_840	121	A	G
SEQ ID NO:822	SsSNP2006_841	121	A	G
SEQ ID NO:823	SsSNP2006_842	121	A	G
SEQ ID NO:824	SsSNP2006_843	121	A	G
SEQ ID NO:825	SsSNP2006_844	121	A	C
SEQ ID NO:826	SsSNP2006_845	121	A	G
SEQ ID NO:827	SsSNP2006_846	121	A	G
SEQ ID NO:828	SsSNP2006_847	121	A	G
SEQ ID NO:829	SsSNP2006_848	121	A	G
SEQ ID NO:830	SsSNP2006_849	121	A	G
SEQ ID NO:831	SsSNP2006_850	121	A	G
SEQ ID NO:832	SsSNP2006_851	121	A	T
SEQ ID NO:833	SsSNP2006_852	78	A	G
SEQ ID NO:834	SsSNP2006_853	121	A	G
SEQ ID NO:835	SsSNP2006_854	121	A	G
SEQ ID NO:836	SsSNP2006_855	121	A	G
SEQ ID NO:837	SsSNP2006_856	121	A	G
SEQ ID NO:838	SsSNP2006_857	121	A	G
SEQ ID NO:839	SsSNP2006_858	121	A	G
SEQ ID NO:840	SsSNP2006_859	121	A	G
SEQ ID NO:841	SsSNP2006_860	121	A	G
SEQ ID NO:842	SsSNP2006_861	121	A	G
SEQ ID NO:843	SsSNP2006_862	121	A	G
SEQ ID NO:844	SsSNP2006_863	121	A	T
SEQ ID NO:845	SsSNP2006_864	121	A	G
SEQ ID NO:846	SsSNP2006_865	121	A	C
SEQ ID NO:847	SsSNP2006_866	121	A	T
SEQ ID NO:848	SsSNP2006_867	121	A	C
SEQ ID NO:849	SsSNP2006_868	121	A	C
SEQ ID NO:850	SsSNP2006_869	121	A	G
SEQ ID NO:851	SsSNP2006_870	121	A	G
SEQ ID NO:852	SsSNP2006_871	121	A	C
SEQ ID NO:853	SsSNP2006_872	121	A	G
SEQ ID NO:854	SsSNP2006_873	121	A	C
SEQ ID NO:855	SsSNP2006_874	121	A	G
SEQ ID NO:856	SsSNP2006_875	121	A	G
SEQ ID NO:857	SsSNP2006_876	121	A	G
SEQ ID NO:858	SsSNP2006_877	121	A	G
SEQ ID NO:859	SsSNP2006_878	121	A	G
SEQ ID NO:860	SsSNP2006_879	121	A	G
SEQ ID NO:861	SsSNP2006_880	121	A	C
SEQ ID NO:862	SsSNP2006_881	121	A	G
SEQ ID NO:863	SsSNP2006_882	121	A	C
SEQ ID NO:864	SsSNP2006_883	121	A	G
SEQ ID NO:865	SsSNP2006_884	121	A	G
SEQ ID NO:866	SsSNP2006_885	121	A	G
SEQ ID NO:867	SsSNP2006_886	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:868	SsSNP2006_887	121	A	G
SEQ ID NO:869	SsSNP2006_888	121	A	G
SEQ ID NO:870	SsSNP2006_889	121	A	T
SEQ ID NO:871	SsSNP2006_890	121	A	G
SEQ ID NO:872	SsSNP2006_891	121	A	G
SEQ ID NO:873	SsSNP2006_892	121	A	T
SEQ ID NO:874	SsSNP2006_893	121	A	G
SEQ ID NO:875	SsSNP2006_894	121	A	G
SEQ ID NO:876	SsSNP2006_895	121	A	G
SEQ ID NO:877	SsSNP2006_896	121	A	G
SEQ ID NO:878	SsSNP2006_897	121	A	G
SEQ ID NO:879	SsSNP2006_898	121	A	G
SEQ ID NO:880	SsSNP2006_899	121	A	G
SEQ ID NO:881	SsSNP2006_900	121	A	G
SEQ ID NO:882	SsSNP2006_901	121	A	G
SEQ ID NO:883	SsSNP2006_902	121	A	C
SEQ ID NO:884	SsSNP2006_903	121	C	G
SEQ ID NO:885	SsSNP2006_904	121	A	G
SEQ ID NO:886	SsSNP2006_905	121	A	G
SEQ ID NO:887	SsSNP2006_906	121	A	G
SEQ ID NO:888	SsSNP2006_907	121	A	C
SEQ ID NO:889	SsSNP2006_908	121	A	G
SEQ ID NO:890	SsSNP2006_909	121	A	G
SEQ ID NO:891	SsSNP2006_910	121	A	G
SEQ ID NO:892	SsSNP2006_911	121	A	G
SEQ ID NO:893	SsSNP2006_912	121	A	G
SEQ ID NO:894	SsSNP2006_913	121	A	G
SEQ ID NO:895	SsSNP2006_914	121	A	T
SEQ ID NO:896	SsSNP2006_915	121	A	G
SEQ ID NO:897	SsSNP2006_916	121	A	T
SEQ ID NO:898	SsSNP2006_917	121	A	G
SEQ ID NO:899	SsSNP2006_918	121	A	G
SEQ ID NO:900	SsSNP2006_919	121	C	G
SEQ ID NO:901	SsSNP2006_920	121	A	G
SEQ ID NO:902	SsSNP2006_921	121	A	C
SEQ ID NO:903	SsSNP2006_922	121	A	G
SEQ ID NO:904	SsSNP2006_923	121	A	G
SEQ ID NO:905	SsSNP2006_924	121	A	C
SEQ ID NO:906	SsSNP2006_925	121	A	G
SEQ ID NO:907	SsSNP2006_926	121	A	G
SEQ ID NO:908	SsSNP2006_927	121	A	G
SEQ ID NO:909	SsSNP2006_928	57	A	G
SEQ ID NO:910	SsSNP2006_929	121	A	G
SEQ ID NO:911	SsSNP2006_930	121	A	G
SEQ ID NO:912	SsSNP2006_931	121	A	C
SEQ ID NO:913	SsSNP2006_932	121	A	G
SEQ ID NO:914	SsSNP2006_933	121	A	G
SEQ ID NO:915	SsSNP2006_934	28	A	G
SEQ ID NO:916	SsSNP2006_935	121	A	G
SEQ ID NO:917	SsSNP2006_936	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:918	SsSNP2006_937	121	A	G
SEQ ID NO:919	SsSNP2006_938	121	A	C
SEQ ID NO:920	SsSNP2006_939	121	A	T
SEQ ID NO:921	SsSNP2006_940	121	C	G
SEQ ID NO:922	SsSNP2006_941	121	A	C
SEQ ID NO:923	SsSNP2006_942	121	A	G
SEQ ID NO:924	SsSNP2006_943	121	A	T
SEQ ID NO:925	SsSNP2006_944	121	A	C
SEQ ID NO:926	SsSNP2006_945	121	A	G
SEQ ID NO:927	SsSNP2006_946	121	A	C
SEQ ID NO:928	SsSNP2006_947	121	A	G
SEQ ID NO:929	SsSNP2006_948	121	A	G
SEQ ID NO:930	SsSNP2006_949	39	A	G
SEQ ID NO:931	SsSNP2006_950	121	A	G
SEQ ID NO:932	SsSNP2006_951	121	A	G
SEQ ID NO:933	SsSNP2006_952	121	C	G
SEQ ID NO:934	SsSNP2006_953	121	A	G
SEQ ID NO:935	SsSNP2006_954	121	A	G
SEQ ID NO:936	SsSNP2006_955	121	A	C
SEQ ID NO:937	SsSNP2006_956	121	A	G
SEQ ID NO:938	SsSNP2006_957	121	A	G
SEQ ID NO:939	SsSNP2006_958	121	A	T
SEQ ID NO:940	SsSNP2006_959	121	A	G
SEQ ID NO:941	SsSNP2006_960	121	A	G
SEQ ID NO:942	SsSNP2006_961	121	A	C
SEQ ID NO:943	SsSNP2006_962	72	A	G
SEQ ID NO:944	SsSNP2006_963	121	A	C
SEQ ID NO:945	SsSNP2006_964	121	A	G
SEQ ID NO:946	SsSNP2006_965	121	A	G
SEQ ID NO:947	SsSNP2006_966	121	A	G
SEQ ID NO:948	SsSNP2006_967	121	A	G
SEQ ID NO:949	SsSNP2006_968	121	A	G
SEQ ID NO:950	SsSNP2006_969	121	A	C
SEQ ID NO:951	SsSNP2006_970	121	A	G
SEQ ID NO:952	SsSNP2006_971	121	A	G
SEQ ID NO:953	SsSNP2006_972	121	A	C
SEQ ID NO:954	SsSNP2006_973	121	A	G
SEQ ID NO:955	SsSNP2006_974	121	A	C
SEQ ID NO:956	SsSNP2006_975	121	A	G
SEQ ID NO:957	SsSNP2006_976	121	A	G
SEQ ID NO:958	SsSNP2006_977	121	A	G
SEQ ID NO:959	SsSNP2006_978	121	A	G
SEQ ID NO:960	SsSNP2006_979	121	A	T
SEQ ID NO:961	SsSNP2006_980	121	A	C
SEQ ID NO:962	SsSNP2006_981	121	A	G
SEQ ID NO:963	SsSNP2006_982	121	A	G
SEQ ID NO:964	SsSNP2006_983	121	A	G
SEQ ID NO:965	SsSNP2006_984	121	A	G
SEQ ID NO:966	SsSNP2006_985	121	A	G
SEQ ID NO:967	SsSNP2006_986	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:968	SsSNP2006_987	121	A	G
SEQ ID NO:969	SsSNP2006_988	106	A	G
SEQ ID NO:970	SsSNP2006_989	121	A	G
SEQ ID NO:971	SsSNP2006_990	121	A	G
SEQ ID NO:972	SsSNP2006_991	121	A	G
SEQ ID NO:973	SsSNP2006_992	121	A	G
SEQ ID NO:974	SsSNP2006_993	121	A	G
SEQ ID NO:975	SsSNP2006_994	121	A	G
SEQ ID NO:976	SsSNP2006_995	121	A	G
SEQ ID NO:977	SsSNP2006_996	121	A	T
SEQ ID NO:978	SsSNP2006_997	121	C	G
SEQ ID NO:979	SsSNP2006_998	121	A	G
SEQ ID NO:980	SsSNP2006_999	121	A	G
SEQ ID NO:981	SsSNP2006_1000	121	A	C
SEQ ID NO:982	SsSNP2006_1001	121	A	T
SEQ ID NO:983	SsSNP2006_1002	121	A	G
SEQ ID NO:984	SsSNP2006_1003	121	A	C
SEQ ID NO:985	SsSNP2006_1004	121	A	C
SEQ ID NO:986	SsSNP2006_1005	121	A	G
SEQ ID NO:987	SsSNP2006_1006	121	A	G
SEQ ID NO:988	SsSNP2006_1007	121	A	C
SEQ ID NO:989	SsSNP2006_1008	121	A	G
SEQ ID NO:990	SsSNP2006_1009	121	A	G
SEQ ID NO:991	SsSNP2006_1010	121	A	G
SEQ ID NO:992	SsSNP2006_1011	121	A	G
SEQ ID NO:993	SsSNP2006_1012	121	A	G
SEQ ID NO:994	SsSNP2006_1013	121	A	G
SEQ ID NO:995	SsSNP2006_1014	121	A	G
SEQ ID NO:996	SsSNP2006_1015	121	A	G
SEQ ID NO:997	SsSNP2006_1016	121	A	C
SEQ ID NO:998	SsSNP2006_1017	121	A	G
SEQ ID NO:999	SsSNP2006_1018	121	A	G
SEQ ID NO:1000	SsSNP2006_1019	121	A	C
SEQ ID NO:1001	SsSNP2006_1020	121	A	C
SEQ ID NO:1002	SsSNP2006_1021	121	C	G
SEQ ID NO:1003	SsSNP2006_1022	121	A	G
SEQ ID NO:1004	SsSNP2006_1023	121	A	G
SEQ ID NO:1005	SsSNP2006_1024	121	A	C
SEQ ID NO:1006	SsSNP2006_1025	121	A	G
SEQ ID NO:1007	SsSNP2006_1026	121	A	C
SEQ ID NO:1008	SsSNP2006_1027	121	A	C
SEQ ID NO:1009	SsSNP2006_1028	121	A	C
SEQ ID NO:1010	SsSNP2006_1029	121	C	G
SEQ ID NO:1011	SsSNP2006_1030	121	A	G
SEQ ID NO:1012	SsSNP2006_1031	121	A	G
SEQ ID NO:1013	SsSNP2006_1032	121	A	G
SEQ ID NO:1014	SsSNP2006_1033	121	A	G
SEQ ID NO:1015	SsSNP2006_1034	121	C	G
SEQ ID NO:1016	SsSNP2006_1035	121	A	C
SEQ ID NO:1017	SsSNP2006_1036	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1018	SsSNP2006_1037	121	A	G
SEQ ID NO:1019	SsSNP2006_1038	121	A	G
SEQ ID NO:1020	SsSNP2006_1039	121	A	G
SEQ ID NO:1021	SsSNP2006_1040	121	A	G
SEQ ID NO:1022	SsSNP2006_1041	121	A	G
SEQ ID NO:1023	SsSNP2006_1042	121	A	T
SEQ ID NO:1024	SsSNP2006_1043	121	A	G
SEQ ID NO:1025	SsSNP2006_1044	121	A	G
SEQ ID NO:1026	SsSNP2006_1045	121	A	G
SEQ ID NO:1027	SsSNP2006_1046	121	A	C
SEQ ID NO:1028	SsSNP2006_1047	121	A	T
SEQ ID NO:1029	SsSNP2006_1048	121	A	G
SEQ ID NO:1030	SsSNP2006_1049	121	A	G
SEQ ID NO:1031	SsSNP2006_1050	121	A	C
SEQ ID NO:1032	SsSNP2006_1051	121	A	G
SEQ ID NO:1033	SsSNP2006_1052	121	A	G
SEQ ID NO:1034	SsSNP2006_1053	121	A	G
SEQ ID NO:1035	SsSNP2006_1054	121	A	G
SEQ ID NO:1036	SsSNP2006_1055	121	A	G
SEQ ID NO:1037	SsSNP2006_1056	121	A	G
SEQ ID NO:1038	SsSNP2006_1057	121	A	G
SEQ ID NO:1039	SsSNP2006_1058	121	A	G
SEQ ID NO:1040	SsSNP2006_1059	121	A	G
SEQ ID NO:1041	SsSNP2006_1060	121	A	G
SEQ ID NO:1042	SsSNP2006_1061	121	A	G
SEQ ID NO:1043	SsSNP2006_1062	121	A	G
SEQ ID NO:1044	SsSNP2006_1063	121	A	G
SEQ ID NO:1045	SsSNP2006_1064	121	A	C
SEQ ID NO:1046	SsSNP2006_1065	121	A	G
SEQ ID NO:1047	SsSNP2006_1066	121	A	G
SEQ ID NO:1048	SsSNP2006_1067	121	A	G
SEQ ID NO:1049	SsSNP2006_1068	121	A	C
SEQ ID NO:1050	SsSNP2006_1069	121	A	G
SEQ ID NO:1051	SsSNP2006_1070	121	C	G
SEQ ID NO:1052	SsSNP2006_1071	121	A	G
SEQ ID NO:1053	SsSNP2006_1072	121	A	G
SEQ ID NO:1054	SsSNP2006_1073	121	A	G
SEQ ID NO:1055	SsSNP2006_1074	121	A	C
SEQ ID NO:1056	SsSNP2006_1075	121	A	G
SEQ ID NO:1057	SsSNP2006_1076	121	A	C
SEQ ID NO:1058	SsSNP2006_1077	121	A	G
SEQ ID NO:1059	SsSNP2006_1078	121	A	G
SEQ ID NO:1060	SsSNP2006_1079	121	A	C
SEQ ID NO:1061	SsSNP2006_1080	121	A	G
SEQ ID NO:1062	SsSNP2006_1081	121	C	G
SEQ ID NO:1063	SsSNP2006_1082	121	A	G
SEQ ID NO:1064	SsSNP2006_1083	121	A	G
SEQ ID NO:1065	SsSNP2006_1084	121	A	C
SEQ ID NO:1066	SsSNP2006_1085	121	A	G
SEQ ID NO:1067	SsSNP2006_1086	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1068	SsSNP2006_1087	121	A	G
SEQ ID NO:1069	SsSNP2006_1088	121	A	C
SEQ ID NO:1070	SsSNP2006_1089	121	A	G
SEQ ID NO:1071	SsSNP2006_1090	121	A	G
SEQ ID NO:1072	SsSNP2006_1091	121	A	C
SEQ ID NO:1073	SsSNP2006_1092	106	A	G
SEQ ID NO:1074	SsSNP2006_1093	121	A	G
SEQ ID NO:1075	SsSNP2006_1094	121	A	C
SEQ ID NO:1076	SsSNP2006_1095	121	A	G
SEQ ID NO:1077	SsSNP2006_1096	121	A	G
SEQ ID NO:1078	SsSNP2006_1097	121	A	G
SEQ ID NO:1079	SsSNP2006_1098	121	A	G
SEQ ID NO:1080	SsSNP2006_1099	121	A	C
SEQ ID NO:1081	SsSNP2006_1100	121	A	G
SEQ ID NO:1082	SsSNP2006_1101	121	A	G
SEQ ID NO:1083	SsSNP2006_1102	121	A	G
SEQ ID NO:1084	SsSNP2006_1103	121	A	G
SEQ ID NO:1085	SsSNP2006_1104	121	C	G
SEQ ID NO:1086	SsSNP2006_1105	121	A	G
SEQ ID NO:1087	SsSNP2006_1106	121	A	G
SEQ ID NO:1088	SsSNP2006_1107	121	A	G
SEQ ID NO:1089	SsSNP2006_1108	121	A	G
SEQ ID NO:1090	SsSNP2006_1109	121	A	G
SEQ ID NO:1091	SsSNP2006_1110	121	C	G
SEQ ID NO:1092	SsSNP2006_1111	121	A	C
SEQ ID NO:1093	SsSNP2006_1112	121	A	G
SEQ ID NO:1094	SsSNP2006_1113	121	A	G
SEQ ID NO:1095	SsSNP2006_1114	121	C	G
SEQ ID NO:1096	SsSNP2006_1115	121	A	G
SEQ ID NO:1097	SsSNP2006_1116	121	A	G
SEQ ID NO:1098	SsSNP2006_1117	121	A	G
SEQ ID NO:1099	SsSNP2006_1118	121	A	G
SEQ ID NO:1100	SsSNP2006_1119	121	A	T
SEQ ID NO:1101	SsSNP2006_1120	121	A	G
SEQ ID NO:1102	SsSNP2006_1121	106	A	G
SEQ ID NO:1103	SsSNP2006_1122	121	A	G
SEQ ID NO:1104	SsSNP2006_1123	121	A	G
SEQ ID NO:1105	SsSNP2006_1124	121	A	G
SEQ ID NO:1106	SsSNP2006_1125	121	A	G
SEQ ID NO:1107	SsSNP2006_1126	121	A	G
SEQ ID NO:1108	SsSNP2006_1127	121	A	T
SEQ ID NO:1109	SsSNP2006_1128	121	C	G
SEQ ID NO:1110	SsSNP2006_1129	121	A	G
SEQ ID NO:1111	SsSNP2006_1130	121	A	G
SEQ ID NO:1112	SsSNP2006_1131	121	A	G
SEQ ID NO:1113	SsSNP2006_1132	121	A	C
SEQ ID NO:1114	SsSNP2006_1133	121	A	G
SEQ ID NO:1115	SsSNP2006_1134	121	A	G
SEQ ID NO:1116	SsSNP2006_1135	121	A	G
SEQ ID NO:1117	SsSNP2006_1136	77	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1118	SsSNP2006_1137	121	C	G
SEQ ID NO:1119	SsSNP2006_1138	121	A	G
SEQ ID NO:1120	SsSNP2006_1139	121	A	G
SEQ ID NO:1121	SsSNP2006_1140	121	A	G
SEQ ID NO:1122	SsSNP2006_1141	121	C	G
SEQ ID NO:1123	SsSNP2006_1142	121	A	G
SEQ ID NO:1124	SsSNP2006_1143	121	A	G
SEQ ID NO:1125	SsSNP2006_1144	121	A	G
SEQ ID NO:1126	SsSNP2006_1145	121	A	G
SEQ ID NO:1127	SsSNP2006_1146	121	A	G
SEQ ID NO:1128	SsSNP2006_1147	121	A	G
SEQ ID NO:1129	SsSNP2006_1148	121	A	G
SEQ ID NO:1130	SsSNP2006_1149	121	A	C
SEQ ID NO:1131	SsSNP2006_1150	121	A	G
SEQ ID NO:1132	SsSNP2006_1151	121	A	G
SEQ ID NO:1133	SsSNP2006_1152	121	A	G
SEQ ID NO:1134	SsSNP2006_1153	99	A	C
SEQ ID NO:1135	SsSNP2006_1154	121	A	G
SEQ ID NO:1136	SsSNP2006_1155	121	A	C
SEQ ID NO:1137	SsSNP2006_1156	121	A	G
SEQ ID NO:1138	SsSNP2006_1157	121	A	T
SEQ ID NO:1139	SsSNP2006_1158	121	A	G
SEQ ID NO:1140	SsSNP2006_1159	121	A	G
SEQ ID NO:1141	SsSNP2006_1160	121	A	G
SEQ ID NO:1142	SsSNP2006_1161	121	A	G
SEQ ID NO:1143	SsSNP2006_1162	121	A	G
SEQ ID NO:1144	SsSNP2006_1163	121	A	T
SEQ ID NO:1145	SsSNP2006_1164	121	A	G
SEQ ID NO:1146	SsSNP2006_1165	121	A	G
SEQ ID NO:1147	SsSNP2006_1166	121	A	G
SEQ ID NO:1148	SsSNP2006_1167	121	A	G
SEQ ID NO:1149	SsSNP2006_1168	121	A	G
SEQ ID NO:1150	SsSNP2006_1169	121	A	C
SEQ ID NO:1151	SsSNP2006_1170	121	A	G
SEQ ID NO:1152	SsSNP2006_1171	121	C	G
SEQ ID NO:1153	SsSNP2006_1172	121	A	G
SEQ ID NO:1154	SsSNP2006_1173	121	A	G
SEQ ID NO:1155	SsSNP2006_1174	121	A	G
SEQ ID NO:1156	SsSNP2006_1175	121	A	C
SEQ ID NO:1157	SsSNP2006_1176	121	A	T
SEQ ID NO:1158	SsSNP2006_1177	121	A	C
SEQ ID NO:1159	SsSNP2006_1178	121	A	C
SEQ ID NO:1160	SsSNP2006_1179	121	A	G
SEQ ID NO:1161	SsSNP2006_1180	121	A	C
SEQ ID NO:1162	SsSNP2006_1181	121	A	G
SEQ ID NO:1163	SsSNP2006_1182	121	A	G
SEQ ID NO:1164	SsSNP2006_1183	121	A	G
SEQ ID NO:1165	SsSNP2006_1184	121	A	G
SEQ ID NO:1166	SsSNP2006_1185	121	A	G
SEQ ID NO:1167	SsSNP2006_1186	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1168	SsSNP2006_1187	121	A	G
SEQ ID NO:1169	SsSNP2006_1188	121	A	T
SEQ ID NO:1170	SsSNP2006_1189	121	A	G
SEQ ID NO:1171	SsSNP2006_1190	121	A	G
SEQ ID NO:1172	SsSNP2006_1191	121	A	G
SEQ ID NO:1173	SsSNP2006_1192	121	A	G
SEQ ID NO:1174	SsSNP2006_1193	121	A	G
SEQ ID NO:1175	SsSNP2006_1194	121	A	G
SEQ ID NO:1176	SsSNP2006_1195	121	A	G
SEQ ID NO:1177	SsSNP2006_1196	121	A	C
SEQ ID NO:1178	SsSNP2006_1197	121	A	G
SEQ ID NO:1179	SsSNP2006_1198	121	A	G
SEQ ID NO:1180	SsSNP2006_1199	121	A	T
SEQ ID NO:1181	SsSNP2006_1200	121	A	G
SEQ ID NO:1182	SsSNP2006_1201	121	A	G
SEQ ID NO:1183	SsSNP2006_1202	121	A	G
SEQ ID NO:1184	SsSNP2006_1203	121	A	G
SEQ ID NO:1185	SsSNP2006_1204	121	A	G
SEQ ID NO:1186	SsSNP2006_1205	121	A	G
SEQ ID NO:1187	SsSNP2006_1206	121	A	G
SEQ ID NO:1188	SsSNP2006_1207	121	A	C
SEQ ID NO:1189	SsSNP2006_1208	121	A	C
SEQ ID NO:1190	SsSNP2006_1209	121	A	T
SEQ ID NO:1191	SsSNP2006_1210	121	A	G
SEQ ID NO:1192	SsSNP2006_1211	121	A	G
SEQ ID NO:1193	SsSNP2006_1212	121	A	T
SEQ ID NO:1194	SsSNP2006_1213	121	A	T
SEQ ID NO:1195	SsSNP2006_1214	121	A	G
SEQ ID NO:1196	SsSNP2006_1215	121	A	G
SEQ ID NO:1197	SsSNP2006_1216	121	A	T
SEQ ID NO:1198	SsSNP2006_1217	121	A	G
SEQ ID NO:1199	SsSNP2006_1218	121	A	T
SEQ ID NO:1200	SsSNP2006_1219	121	A	G
SEQ ID NO:1201	SsSNP2006_1220	121	A	C
SEQ ID NO:1202	SsSNP2006_1221	121	A	G
SEQ ID NO:1203	SsSNP2006_1222	121	A	G
SEQ ID NO:1204	SsSNP2006_1223	121	A	G
SEQ ID NO:1205	SsSNP2006_1224	121	A	G
SEQ ID NO:1206	SsSNP2006_1225	121	A	G
SEQ ID NO:1207	SsSNP2006_1226	121	A	G
SEQ ID NO:1208	SsSNP2006_1227	121	A	G
SEQ ID NO:1209	SsSNP2006_1228	121	A	G
SEQ ID NO:1210	SsSNP2006_1229	121	A	G
SEQ ID NO:1211	SsSNP2006_1230	121	A	G
SEQ ID NO:1212	SsSNP2006_1231	121	A	G
SEQ ID NO:1213	SsSNP2006_1232	121	A	G
SEQ ID NO:1214	SsSNP2006_1233	121	A	G
SEQ ID NO:1215	SsSNP2006_1234	121	A	G
SEQ ID NO:1216	SsSNP2006_1235	121	C	G
SEQ ID NO:1217	SsSNP2006_1236	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1218	SsSNP2006_1237	121	A	G
SEQ ID NO:1219	SsSNP2006_1238	121	A	C
SEQ ID NO:1220	SsSNP2006_1239	121	A	C
SEQ ID NO:1221	SsSNP2006_1240	121	A	G
SEQ ID NO:1222	SsSNP2006_1241	121	A	C
SEQ ID NO:1223	SsSNP2006_1242	121	A	G
SEQ ID NO:1224	SsSNP2006_1243	121	A	G
SEQ ID NO:1225	SsSNP2006_1244	121	A	G
SEQ ID NO:1226	SsSNP2006_1245	121	A	G
SEQ ID NO:1227	SsSNP2006_1246	121	C	G
SEQ ID NO:1228	SsSNP2006_1247	121	A	C
SEQ ID NO:1229	SsSNP2006_1248	121	A	T
SEQ ID NO:1230	SsSNP2006_1249	121	A	G
SEQ ID NO:1231	SsSNP2006_1250	121	A	G
SEQ ID NO:1232	SsSNP2006_1251	121	A	G
SEQ ID NO:1233	SsSNP2006_1252	121	A	G
SEQ ID NO:1234	SsSNP2006_1253	121	A	C
SEQ ID NO:1235	SsSNP2006_1254	121	A	G
SEQ ID NO:1236	SsSNP2006_1255	121	A	G
SEQ ID NO:1237	SsSNP2006_1256	121	A	G
SEQ ID NO:1238	SsSNP2006_1257	121	A	G
SEQ ID NO:1239	SsSNP2006_1258	121	A	G
SEQ ID NO:1240	SsSNP2006_1259	121	A	G
SEQ ID NO:1241	SsSNP2006_1260	121	A	G
SEQ ID NO:1242	SsSNP2006_1261	121	A	G
SEQ ID NO:1243	SsSNP2006_1262	121	A	G
SEQ ID NO:1244	SsSNP2006_1263	121	A	G
SEQ ID NO:1245	SsSNP2006_1264	121	A	C
SEQ ID NO:1246	SsSNP2006_1265	121	A	G
SEQ ID NO:1247	SsSNP2006_1266	121	A	G
SEQ ID NO:1248	SsSNP2006_1267	121	C	G
SEQ ID NO:1249	SsSNP2006_1268	121	A	G
SEQ ID NO:1250	SsSNP2006_1269	121	A	C
SEQ ID NO:1251	SsSNP2006_1270	121	A	G
SEQ ID NO:1252	SsSNP2006_1271	121	A	G
SEQ ID NO:1253	SsSNP2006_1272	121	A	G
SEQ ID NO:1254	SsSNP2006_1273	121	A	C
SEQ ID NO:1255	SsSNP2006_1274	121	A	G
SEQ ID NO:1256	SsSNP2006_1275	121	A	G
SEQ ID NO:1257	SsSNP2006_1276	121	A	G
SEQ ID NO:1258	SsSNP2006_1277	121	A	G
SEQ ID NO:1259	SsSNP2006_1278	121	A	G
SEQ ID NO:1260	SsSNP2006_1279	121	A	G
SEQ ID NO:1261	SsSNP2006_1280	121	A	G
SEQ ID NO:1262	SsSNP2006_1281	121	A	G
SEQ ID NO:1263	SsSNP2006_1282	121	A	C
SEQ ID NO:1264	SsSNP2006_1283	121	A	G
SEQ ID NO:1265	SsSNP2006_1284	121	A	G
SEQ ID NO:1266	SsSNP2006_1285	121	A	G
SEQ ID NO:1267	SsSNP2006_1286	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1268	SsSNP2006_1287	121	C	G
SEQ ID NO:1269	SsSNP2006_1288	106	A	G
SEQ ID NO:1270	SsSNP2006_1289	121	A	G
SEQ ID NO:1271	SsSNP2006_1290	121	A	G
SEQ ID NO:1272	SsSNP2006_1291	121	C	G
SEQ ID NO:1273	SsSNP2006_1292	121	A	G
SEQ ID NO:1274	SsSNP2006_1293	121	A	G
SEQ ID NO:1275	SsSNP2006_1294	121	A	C
SEQ ID NO:1276	SsSNP2006_1295	121	A	G
SEQ ID NO:1277	SsSNP2006_1296	121	A	G
SEQ ID NO:1278	SsSNP2006_1297	121	A	G
SEQ ID NO:1279	SsSNP2006_1298	121	A	G
SEQ ID NO:1280	SsSNP2006_1299	121	A	G
SEQ ID NO:1281	SsSNP2006_1300	121	A	G
SEQ ID NO:1282	SsSNP2006_1301	121	A	G
SEQ ID NO:1283	SsSNP2006_1302	121	A	G
SEQ ID NO:1284	SsSNP2006_1303	121	A	C
SEQ ID NO:1285	SsSNP2006_1304	121	A	G
SEQ ID NO:1286	SsSNP2006_1305	121	A	G
SEQ ID NO:1287	SsSNP2006_1306	121	A	G
SEQ ID NO:1288	SsSNP2006_1307	121	A	G
SEQ ID NO:1289	SsSNP2006_1308	121	A	G
SEQ ID NO:1290	SsSNP2006_1309	121	A	G
SEQ ID NO:1291	SsSNP2006_1310	42	A	C
SEQ ID NO:1292	SsSNP2006_1311	121	A	G
SEQ ID NO:1293	SsSNP2006_1312	121	A	G
SEQ ID NO:1294	SsSNP2006_1313	121	C	G
SEQ ID NO:1295	SsSNP2006_1314	121	A	G
SEQ ID NO:1296	SsSNP2006_1315	121	A	G
SEQ ID NO:1297	SsSNP2006_1316	121	A	G
SEQ ID NO:1298	SsSNP2006_1317	121	A	G
SEQ ID NO:1299	SsSNP2006_1318	121	A	G
SEQ ID NO:1300	SsSNP2006_1319	121	A	C
SEQ ID NO:1301	SsSNP2006_1320	121	A	G
SEQ ID NO:1302	SsSNP2006_1321	121	A	T
SEQ ID NO:1303	SsSNP2006_1322	121	A	G
SEQ ID NO:1304	SsSNP2006_1323	121	A	G
SEQ ID NO:1305	SsSNP2006_1324	121	A	T
SEQ ID NO:1306	SsSNP2006_1325	121	A	G
SEQ ID NO:1307	SsSNP2006_1326	121	A	G
SEQ ID NO:1308	SsSNP2006_1327	121	A	G
SEQ ID NO:1309	SsSNP2006_1328	121	A	G
SEQ ID NO:1310	SsSNP2006_1329	121	A	C
SEQ ID NO:1311	SsSNP2006_1330	121	A	G
SEQ ID NO:1312	SsSNP2006_1331	121	A	T
SEQ ID NO:1313	SsSNP2006_1332	121	A	G
SEQ ID NO:1314	SsSNP2006_1333	121	A	G
SEQ ID NO:1315	SsSNP2006_1334	121	A	G
SEQ ID NO:1316	SsSNP2006_1335	121	A	G
SEQ ID NO:1317	SsSNP2006_1336	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1318	SsSNP2006_1337	121	A	T
SEQ ID NO:1319	SsSNP2006_1338	121	A	G
SEQ ID NO:1320	SsSNP2006_1339	121	A	C
SEQ ID NO:1321	SsSNP2006_1340	121	A	G
SEQ ID NO:1322	SsSNP2006_1341	121	A	T
SEQ ID NO:1323	SsSNP2006_1342	121	A	G
SEQ ID NO:1324	SsSNP2006_1343	121	A	G
SEQ ID NO:1325	SsSNP2006_1344	121	C	G
SEQ ID NO:1326	SsSNP2006_1345	121	A	G
SEQ ID NO:1327	SsSNP2006_1346	121	A	G
SEQ ID NO:1328	SsSNP2006_1347	121	A	C
SEQ ID NO:1329	SsSNP2006_1348	121	A	G
SEQ ID NO:1330	SsSNP2006_1349	121	A	G
SEQ ID NO:1331	SsSNP2006_1350	121	A	G
SEQ ID NO:1332	SsSNP2006_1351	121	A	G
SEQ ID NO:1333	SsSNP2006_1352	121	A	G
SEQ ID NO:1334	SsSNP2006_1353	121	A	G
SEQ ID NO:1335	SsSNP2006_1354	121	A	G
SEQ ID NO:1336	SsSNP2006_1355	121	A	G
SEQ ID NO:1337	SsSNP2006_1356	121	A	G
SEQ ID NO:1338	SsSNP2006_1357	121	A	G
SEQ ID NO:1339	SsSNP2006_1358	121	C	G
SEQ ID NO:1340	SsSNP2006_1359	121	A	C
SEQ ID NO:1341	SsSNP2006_1360	121	A	G
SEQ ID NO:1342	SsSNP2006_1361	121	A	T
SEQ ID NO:1343	SsSNP2006_1362	121	A	G
SEQ ID NO:1344	SsSNP2006_1363	121	A	G
SEQ ID NO:1345	SsSNP2006_1364	121	C	G
SEQ ID NO:1346	SsSNP2006_1365	121	A	G
SEQ ID NO:1347	SsSNP2006_1366	121	A	G
SEQ ID NO:1348	SsSNP2006_1367	121	A	G
SEQ ID NO:1349	SsSNP2006_1368	121	A	G
SEQ ID NO:1350	SsSNP2006_1369	121	A	T
SEQ ID NO:1351	SsSNP2006_1370	121	A	G
SEQ ID NO:1352	SsSNP2006_1371	121	A	G
SEQ ID NO:1353	SsSNP2006_1372	121	A	G
SEQ ID NO:1354	SsSNP2006_1373	121	A	G
SEQ ID NO:1355	SsSNP2006_1374	121	A	G
SEQ ID NO:1356	SsSNP2006_1375	121	A	G
SEQ ID NO:1357	SsSNP2006_1376	121	A	G
SEQ ID NO:1358	SsSNP2006_1377	121	A	G
SEQ ID NO:1359	SsSNP2006_1378	121	A	G
SEQ ID NO:1360	SsSNP2006_1379	121	A	T
SEQ ID NO:1361	SsSNP2006_1380	121	A	G
SEQ ID NO:1362	SsSNP2006_1381	121	A	G
SEQ ID NO:1363	SsSNP2006_1382	121	A	G
SEQ ID NO:1364	SsSNP2006_1383	121	A	C
SEQ ID NO:1365	SsSNP2006_1384	121	A	C
SEQ ID NO:1366	SsSNP2006_1385	121	A	G
SEQ ID NO:1367	SsSNP2006_1386	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1368	SsSNP2006_1387	121	A	G
SEQ ID NO:1369	SsSNP2006_1388	121	C	G
SEQ ID NO:1370	SsSNP2006_1389	121	A	G
SEQ ID NO:1371	SsSNP2006_1390	121	A	G
SEQ ID NO:1372	SsSNP2006_1391	121	A	G
SEQ ID NO:1373	SsSNP2006_1392	121	A	G
SEQ ID NO:1374	SsSNP2006_1393	121	A	G
SEQ ID NO:1375	SsSNP2006_1394	121	A	C
SEQ ID NO:1376	SsSNP2006_1395	121	A	G
SEQ ID NO:1377	SsSNP2006_1396	121	C	G
SEQ ID NO:1378	SsSNP2006_1397	121	A	G
SEQ ID NO:1379	SsSNP2006_1398	121	A	T
SEQ ID NO:1380	SsSNP2006_1399	121	A	C
SEQ ID NO:1381	SsSNP2006_1400	121	A	G
SEQ ID NO:1382	SsSNP2006_1401	121	A	G
SEQ ID NO:1383	SsSNP2006_1402	121	A	G
SEQ ID NO:1384	SsSNP2006_1403	121	A	C
SEQ ID NO:1385	SsSNP2006_1404	121	A	G
SEQ ID NO:1386	SsSNP2006_1405	121	A	G
SEQ ID NO:1387	SsSNP2006_1406	121	A	C
SEQ ID NO:1388	SsSNP2006_1407	121	A	G
SEQ ID NO:1389	SsSNP2006_1408	121	A	G
SEQ ID NO:1390	SsSNP2006_1409	121	A	G
SEQ ID NO:1391	SsSNP2006_1410	121	A	C
SEQ ID NO:1392	SsSNP2006_1411	121	A	G
SEQ ID NO:1393	SsSNP2006_1412	121	A	C
SEQ ID NO:1394	SsSNP2006_1413	121	A	G
SEQ ID NO:1395	SsSNP2006_1414	121	A	G
SEQ ID NO:1396	SsSNP2006_1415	121	A	G
SEQ ID NO:1397	SsSNP2006_1416	121	A	G
SEQ ID NO:1398	SsSNP2006_1417	121	C	G
SEQ ID NO:1399	SsSNP2006_1418	121	C	G
SEQ ID NO:1400	SsSNP2006_1419	121	A	G
SEQ ID NO:1401	SsSNP2006_1420	121	A	G
SEQ ID NO:1402	SsSNP2006_1421	121	A	C
SEQ ID NO:1403	SsSNP2006_1422	121	A	G
SEQ ID NO:1404	SsSNP2006_1423	121	A	C
SEQ ID NO:1405	SsSNP2006_1424	121	A	G
SEQ ID NO:1406	SsSNP2006_1425	121	C	G
SEQ ID NO:1407	SsSNP2006_1426	121	A	C
SEQ ID NO:1408	SsSNP2006_1427	121	A	G
SEQ ID NO:1409	SsSNP2006_1428	121	A	C
SEQ ID NO:1410	SsSNP2006_1429	121	A	G
SEQ ID NO:1411	SsSNP2006_1430	121	A	G
SEQ ID NO:1412	SsSNP2006_1431	121	A	G
SEQ ID NO:1413	SsSNP2006_1432	121	A	G
SEQ ID NO:1414	SsSNP2006_1433	121	A	G
SEQ ID NO:1415	SsSNP2006_1434	121	A	G
SEQ ID NO:1416	SsSNP2006_1435	121	A	G
SEQ ID NO:1417	SsSNP2006_1436	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1418	SsSNP2006_1437	121	A	G
SEQ ID NO:1419	SsSNP2006_1438	121	A	G
SEQ ID NO:1420	SsSNP2006_1439	121	A	G
SEQ ID NO:1421	SsSNP2006_1440	121	A	G
SEQ ID NO:1422	SsSNP2006_1441	121	A	G
SEQ ID NO:1423	SsSNP2006_1442	121	A	G
SEQ ID NO:1424	SsSNP2006_1443	121	A	G
SEQ ID NO:1425	SsSNP2006_1444	121	A	C
SEQ ID NO:1426	SsSNP2006_1445	121	A	G
SEQ ID NO:1427	SsSNP2006_1446	121	A	G
SEQ ID NO:1428	SsSNP2006_1447	121	A	G
SEQ ID NO:1429	SsSNP2006_1448	121	A	G
SEQ ID NO:1430	SsSNP2006_1449	121	A	C
SEQ ID NO:1431	SsSNP2006_1450	121	A	G
SEQ ID NO:1432	SsSNP2006_1451	121	A	G
SEQ ID NO:1433	SsSNP2006_1452	121	A	G
SEQ ID NO:1434	SsSNP2006_1453	121	A	G
SEQ ID NO:1435	SsSNP2006_1454	121	A	G
SEQ ID NO:1436	SsSNP2006_1455	121	A	G
SEQ ID NO:1437	SsSNP2006_1456	121	A	T
SEQ ID NO:1438	SsSNP2006_1457	121	A	G
SEQ ID NO:1439	SsSNP2006_1458	121	A	G
SEQ ID NO:1440	SsSNP2006_1459	121	A	G
SEQ ID NO:1441	SsSNP2006_1460	121	A	G
SEQ ID NO:1442	SsSNP2006_1461	121	A	G
SEQ ID NO:1443	SsSNP2006_1462	121	A	G
SEQ ID NO:1444	SsSNP2006_1463	121	A	T
SEQ ID NO:1445	SsSNP2006_1464	121	A	T
SEQ ID NO:1446	SsSNP2006_1465	121	A	C
SEQ ID NO:1447	SsSNP2006_1466	102	A	G
SEQ ID NO:1448	SsSNP2006_1467	121	A	G
SEQ ID NO:1449	SsSNP2006_1468	121	A	G
SEQ ID NO:1450	SsSNP2006_1469	121	A	G
SEQ ID NO:1451	SsSNP2006_1470	121	A	G
SEQ ID NO:1452	SsSNP2006_1471	121	A	G
SEQ ID NO:1453	SsSNP2006_1472	121	A	G
SEQ ID NO:1454	SsSNP2006_1473	121	A	C
SEQ ID NO:1455	SsSNP2006_1474	121	A	T
SEQ ID NO:1456	SsSNP2006_1475	121	A	G
SEQ ID NO:1457	SsSNP2006_1476	121	A	G
SEQ ID NO:1458	SsSNP2006_1477	121	A	G
SEQ ID NO:1459	SsSNP2006_1478	121	A	G
SEQ ID NO:1460	SsSNP2006_1479	121	A	G
SEQ ID NO:1461	SsSNP2006_1480	121	A	G
SEQ ID NO:1462	SsSNP2006_1481	121	A	C
SEQ ID NO:1463	SsSNP2006_1482	121	A	C
SEQ ID NO:1464	SsSNP2006_1483	121	A	G
SEQ ID NO:1465	SsSNP2006_1484	121	A	G
SEQ ID NO:1466	SsSNP2006_1485	121	A	C
SEQ ID NO:1467	SsSNP2006_1486	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1468	SsSNP2006_1487	121	A	G
SEQ ID NO:1469	SsSNP2006_1488	121	A	G
SEQ ID NO:1470	SsSNP2006_1489	121	A	G
SEQ ID NO:1471	SsSNP2006_1490	121	A	G
SEQ ID NO:1472	SsSNP2006_1491	121	A	G
SEQ ID NO:1473	SsSNP2006_1492	121	A	C
SEQ ID NO:1474	SsSNP2006_1493	121	A	G
SEQ ID NO:1475	SsSNP2006_1494	121	A	G
SEQ ID NO:1476	SsSNP2006_1495	121	A	C
SEQ ID NO:1477	SsSNP2006_1496	121	A	G
SEQ ID NO:1478	SsSNP2006_1497	121	A	G
SEQ ID NO:1479	SsSNP2006_1498	121	C	G
SEQ ID NO:1480	SsSNP2006_1499	121	A	G
SEQ ID NO:1481	SsSNP2006_1500	121	A	G
SEQ ID NO:1482	SsSNP2006_1501	121	A	G
SEQ ID NO:1483	SsSNP2006_1502	121	A	G
SEQ ID NO:1484	SsSNP2006_1503	121	A	T
SEQ ID NO:1485	SsSNP2006_1504	121	A	G
SEQ ID NO:1486	SsSNP2006_1505	121	C	G
SEQ ID NO:1487	SsSNP2006_1506	121	A	G
SEQ ID NO:1488	SsSNP2006_1507	121	A	G
SEQ ID NO:1489	SsSNP2006_1508	121	A	C
SEQ ID NO:1490	SsSNP2006_1509	121	A	G
SEQ ID NO:1491	SsSNP2006_1510	121	A	G
SEQ ID NO:1492	SsSNP2006_1511	121	A	G
SEQ ID NO:1493	SsSNP2006_1512	121	A	G
SEQ ID NO:1494	SsSNP2006_1513	121	A	T
SEQ ID NO:1495	SsSNP2006_1514	121	A	G
SEQ ID NO:1496	SsSNP2006_1515	121	A	G
SEQ ID NO:1497	SsSNP2006_1516	121	A	G
SEQ ID NO:1498	SsSNP2006_1517	121	A	G
SEQ ID NO:1499	SsSNP2006_1518	121	A	G
SEQ ID NO:1500	SsSNP2006_1519	121	A	G
SEQ ID NO:1501	SsSNP2006_1520	121	A	G
SEQ ID NO:1502	SsSNP2006_1521	121	A	C
SEQ ID NO:1503	SsSNP2006_1522	121	A	G
SEQ ID NO:1504	SsSNP2006_1523	102	A	G
SEQ ID NO:1505	SsSNP2006_1524	121	C	G
SEQ ID NO:1506	SsSNP2006_1525	121	A	G
SEQ ID NO:1507	SsSNP2006_1526	121	A	G
SEQ ID NO:1508	SsSNP2006_1527	121	A	G
SEQ ID NO:1509	SsSNP2006_1528	121	A	G
SEQ ID NO:1510	SsSNP2006_1529	121	A	G
SEQ ID NO:1511	SsSNP2006_1530	121	A	G
SEQ ID NO:1512	SsSNP2006_1531	121	A	G
SEQ ID NO:1513	SsSNP2006_1532	121	A	G
SEQ ID NO:1514	SsSNP2006_1533	121	A	G
SEQ ID NO:1515	SsSNP2006_1534	121	A	G
SEQ ID NO:1516	SsSNP2006_1535	121	A	G
SEQ ID NO:1517	SsSNP2006_1536	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1518	SsSNP2006_1537	121	A	G
SEQ ID NO:1519	SsSNP2006_1538	121	A	C
SEQ ID NO:1520	SsSNP2006_1539	121	A	G
SEQ ID NO:1521	SsSNP2006_1540	121	C	G
SEQ ID NO:1522	SsSNP2006_1541	121	A	G
SEQ ID NO:1523	SsSNP2006_1542	121	A	G
SEQ ID NO:1524	SsSNP2006_1543	121	C	G
SEQ ID NO:1525	SsSNP2006_1544	121	A	C
SEQ ID NO:1526	SsSNP2006_1545	121	A	G
SEQ ID NO:1527	SsSNP2006_1546	121	A	G
SEQ ID NO:1528	SsSNP2006_1547	121	A	G
SEQ ID NO:1529	SsSNP2006_1548	121	A	G
SEQ ID NO:1530	SsSNP2006_1549	121	A	G
SEQ ID NO:1531	SsSNP2006_1550	121	A	G
SEQ ID NO:1532	SsSNP2006_1551	121	A	G
SEQ ID NO:1533	SsSNP2006_1552	121	A	T
SEQ ID NO:1534	SsSNP2006_1553	121	C	G
SEQ ID NO:1535	SsSNP2006_1554	121	A	C
SEQ ID NO:1536	SsSNP2006_1555	121	A	G
SEQ ID NO:1537	SsSNP2006_1556	121	A	G
SEQ ID NO:1538	SsSNP2006_1557	121	A	G
SEQ ID NO:1539	SsSNP2006_1558	121	A	T
SEQ ID NO:1540	SsSNP2006_1559	121	A	G
SEQ ID NO:1541	SsSNP2006_1560	121	A	G
SEQ ID NO:1542	SsSNP2006_1561	121	A	G
SEQ ID NO:1543	SsSNP2006_1562	121	A	G
SEQ ID NO:1544	SsSNP2006_1563	121	A	G
SEQ ID NO:1545	SsSNP2006_1564	121	A	G
SEQ ID NO:1546	SsSNP2006_1565	121	A	G
SEQ ID NO:1547	SsSNP2006_1566	121	A	G
SEQ ID NO:1548	SsSNP2006_1567	121	A	G
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SEQ ID NO:1550	SsSNP2006_1569	121	A	G
SEQ ID NO:1551	SsSNP2006_1570	121	A	C
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SEQ ID NO:1553	SsSNP2006_1572	121	A	G
SEQ ID NO:1554	SsSNP2006_1573	121	A	G
SEQ ID NO:1555	SsSNP2006_1574	121	A	G
SEQ ID NO:1556	SsSNP2006_1575	121	A	G
SEQ ID NO:1557	SsSNP2006_1576	121	A	G
SEQ ID NO:1558	SsSNP2006_1577	121	A	G
SEQ ID NO:1559	SsSNP2006_1578	121	A	G
SEQ ID NO:1560	SsSNP2006_1579	121	A	G
SEQ ID NO:1561	SsSNP2006_1580	121	A	T
SEQ ID NO:1562	SsSNP2006_1581	121	A	G
SEQ ID NO:1563	SsSNP2006_1582	121	A	G
SEQ ID NO:1564	SsSNP2006_1583	121	A	G
SEQ ID NO:1565	SsSNP2006_1584	121	A	C
SEQ ID NO:1566	SsSNP2006_1585	121	A	G
SEQ ID NO:1567	SsSNP2006_1586	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1568	SsSNP2006_1587	121	A	C
SEQ ID NO:1569	SsSNP2006_1588	121	A	T
SEQ ID NO:1570	SsSNP2006_1589	121	A	G
SEQ ID NO:1571	SsSNP2006_1590	121	A	G
SEQ ID NO:1572	SsSNP2006_1591	121	A	C
SEQ ID NO:1573	SsSNP2006_1592	121	A	G
SEQ ID NO:1574	SsSNP2006_1593	121	A	T
SEQ ID NO:1575	SsSNP2006_1594	121	A	G
SEQ ID NO:1576	SsSNP2006_1595	121	A	G
SEQ ID NO:1577	SsSNP2006_1596	121	A	G
SEQ ID NO:1578	SsSNP2006_1597	121	A	G
SEQ ID NO:1579	SsSNP2006_1598	121	A	G
SEQ ID NO:1580	SsSNP2006_1599	121	A	G
SEQ ID NO:1581	SsSNP2006_1600	121	A	G
SEQ ID NO:1582	SsSNP2006_1601	121	A	G
SEQ ID NO:1583	SsSNP2006_1602	121	A	T
SEQ ID NO:1584	SsSNP2006_1603	121	A	G
SEQ ID NO:1585	SsSNP2006_1604	121	A	G
SEQ ID NO:1586	SsSNP2006_1605	121	C	G
SEQ ID NO:1587	SsSNP2006_1606	121	A	T
SEQ ID NO:1588	SsSNP2006_1607	121	A	G
SEQ ID NO:1589	SsSNP2006_1608	121	A	C
SEQ ID NO:1590	SsSNP2006_1609	121	A	G
SEQ ID NO:1591	SsSNP2006_1610	121	A	G
SEQ ID NO:1592	SsSNP2006_1611	121	A	G
SEQ ID NO:1593	SsSNP2006_1612	121	A	G
SEQ ID NO:1594	SsSNP2006_1613	121	A	G
SEQ ID NO:1595	SsSNP2006_1614	121	A	G
SEQ ID NO:1596	SsSNP2006_1615	121	A	G
SEQ ID NO:1597	SsSNP2006_1616	121	A	T
SEQ ID NO:1598	SsSNP2006_1617	121	A	G
SEQ ID NO:1599	SsSNP2006_1618	121	A	G
SEQ ID NO:1600	SsSNP2006_1619	121	A	G
SEQ ID NO:1601	SsSNP2006_1620	121	A	G
SEQ ID NO:1602	SsSNP2006_1621	121	A	C
SEQ ID NO:1603	SsSNP2006_1622	121	A	T
SEQ ID NO:1604	SsSNP2006_1623	121	A	G
SEQ ID NO:1605	SsSNP2006_1624	121	A	G
SEQ ID NO:1606	SsSNP2006_1625	121	A	G
SEQ ID NO:1607	SsSNP2006_1626	121	A	G
SEQ ID NO:1608	SsSNP2006_1627	121	A	G
SEQ ID NO:1609	SsSNP2006_1628	121	A	G
SEQ ID NO:1610	SsSNP2006_1629	121	A	G
SEQ ID NO:1611	SsSNP2006_1630	121	A	G
SEQ ID NO:1612	SsSNP2006_1631	121	A	C
SEQ ID NO:1613	SsSNP2006_1632	121	A	G
SEQ ID NO:1614	SsSNP2006_1633	121	A	G
SEQ ID NO:1615	SsSNP2006_1634	121	A	C
SEQ ID NO:1616	SsSNP2006_1635	121	A	G
SEQ ID NO:1617	SsSNP2006_1636	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1618	SsSNP2006_1637	121	C	G
SEQ ID NO:1619	SsSNP2006_1638	121	A	G
SEQ ID NO:1620	SsSNP2006_1639	121	A	G
SEQ ID NO:1621	SsSNP2006_1640	121	A	C
SEQ ID NO:1622	SsSNP2006_1641	121	A	C
SEQ ID NO:1623	SsSNP2006_1642	121	A	G
SEQ ID NO:1624	SsSNP2006_1643	121	A	G
SEQ ID NO:1625	SsSNP2006_1644	121	A	G
SEQ ID NO:1626	SsSNP2006_1645	121	A	G
SEQ ID NO:1627	SsSNP2006_1646	121	C	G
SEQ ID NO:1628	SsSNP2006_1647	121	A	C
SEQ ID NO:1629	SsSNP2006_1648	121	A	G
SEQ ID NO:1630	SsSNP2006_1649	121	A	G
SEQ ID NO:1631	SsSNP2006_1650	121	A	G
SEQ ID NO:1632	SsSNP2006_1651	121	A	G
SEQ ID NO:1633	SsSNP2006_1652	121	A	G
SEQ ID NO:1634	SsSNP2006_1653	121	A	G
SEQ ID NO:1635	SsSNP2006_1654	121	A	C
SEQ ID NO:1636	SsSNP2006_1655	121	A	G
SEQ ID NO:1637	SsSNP2006_1656	121	C	G
SEQ ID NO:1638	SsSNP2006_1657	121	A	G
SEQ ID NO:1639	SsSNP2006_1658	121	A	G
SEQ ID NO:1640	SsSNP2006_1659	121	A	G
SEQ ID NO:1641	SsSNP2006_1660	121	A	G
SEQ ID NO:1642	SsSNP2006_1661	121	A	G
SEQ ID NO:1643	SsSNP2006_1662	121	A	G
SEQ ID NO:1644	SsSNP2006_1663	121	A	G
SEQ ID NO:1645	SsSNP2006_1664	121	A	G
SEQ ID NO:1646	SsSNP2006_1665	121	C	G
SEQ ID NO:1647	SsSNP2006_1666	121	A	G
SEQ ID NO:1648	SsSNP2006_1667	121	A	G
SEQ ID NO:1649	SsSNP2006_1668	121	A	G
SEQ ID NO:1650	SsSNP2006_1669	121	A	C
SEQ ID NO:1651	SsSNP2006_1670	121	A	G
SEQ ID NO:1652	SsSNP2006_1671	121	A	C
SEQ ID NO:1653	SsSNP2006_1672	121	A	G
SEQ ID NO:1654	SsSNP2006_1673	121	A	G
SEQ ID NO:1655	SsSNP2006_1674	121	A	G
SEQ ID NO:1656	SsSNP2006_1675	121	A	G
SEQ ID NO:1657	SsSNP2006_1676	121	C	G
SEQ ID NO:1658	SsSNP2006_1677	121	A	G
SEQ ID NO:1659	SsSNP2006_1678	121	A	G
SEQ ID NO:1660	SsSNP2006_1679	121	A	G
SEQ ID NO:1661	SsSNP2006_1680	121	A	G
SEQ ID NO:1662	SsSNP2006_1681	121	A	G
SEQ ID NO:1663	SsSNP2006_1682	121	A	G
SEQ ID NO:1664	SsSNP2006_1683	121	A	G
SEQ ID NO:1665	SsSNP2006_1684	121	A	C
SEQ ID NO:1666	SsSNP2006_1685	121	A	G
SEQ ID NO:1667	SsSNP2006_1686	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1668	SsSNP2006_1687	121	A	C
SEQ ID NO:1669	SsSNP2006_1688	121	A	G
SEQ ID NO:1670	SsSNP2006_1689	121	A	G
SEQ ID NO:1671	SsSNP2006_1690	121	A	G
SEQ ID NO:1672	SsSNP2006_1691	121	A	G
SEQ ID NO:1673	SsSNP2006_1692	121	A	G
SEQ ID NO:1674	SsSNP2006_1693	121	A	G
SEQ ID NO:1675	SsSNP2006_1694	121	A	G
SEQ ID NO:1676	SsSNP2006_1695	121	A	G
SEQ ID NO:1677	SsSNP2006_1696	121	C	G
SEQ ID NO:1678	SsSNP2006_1697	121	A	G
SEQ ID NO:1679	SsSNP2006_1698	121	A	G
SEQ ID NO:1680	SsSNP2006_1699	121	A	C
SEQ ID NO:1681	SsSNP2006_1700	121	A	G
SEQ ID NO:1682	SsSNP2006_1701	121	A	C
SEQ ID NO:1683	SsSNP2006_1702	121	A	G
SEQ ID NO:1684	SsSNP2006_1703	121	A	G
SEQ ID NO:1685	SsSNP2006_1704	121	A	G
SEQ ID NO:1686	SsSNP2006_1705	121	A	G
SEQ ID NO:1687	SsSNP2006_1706	121	A	G
SEQ ID NO:1688	SsSNP2006_1707	121	A	G
SEQ ID NO:1689	SsSNP2006_1708	121	A	G
SEQ ID NO:1690	SsSNP2006_1709	121	A	G
SEQ ID NO:1691	SsSNP2006_1710	121	A	C
SEQ ID NO:1692	SsSNP2006_1711	121	A	C
SEQ ID NO:1693	SsSNP2006_1712	121	C	G
SEQ ID NO:1694	SsSNP2006_1713	121	A	C
SEQ ID NO:1695	SsSNP2006_1714	121	A	G
SEQ ID NO:1696	SsSNP2006_1715	121	A	G
SEQ ID NO:1697	SsSNP2006_1716	121	A	G
SEQ ID NO:1698	SsSNP2006_1717	121	A	G
SEQ ID NO:1699	SsSNP2006_1718	121	A	G
SEQ ID NO:1700	SsSNP2006_1719	121	C	G
SEQ ID NO:1701	SsSNP2006_1720	121	A	G
SEQ ID NO:1702	SsSNP2006_1721	121	A	G
SEQ ID NO:1703	SsSNP2006_1722	121	A	G
SEQ ID NO:1704	SsSNP2006_1723	121	A	G
SEQ ID NO:1705	SsSNP2006_1724	121	A	G
SEQ ID NO:1706	SsSNP2006_1725	121	A	G
SEQ ID NO:1707	SsSNP2006_1726	121	A	G
SEQ ID NO:1708	SsSNP2006_1727	121	A	G
SEQ ID NO:1709	SsSNP2006_1728	121	A	G
SEQ ID NO:1710	SsSNP2006_1729	121	A	G
SEQ ID NO:1711	SsSNP2006_1730	121	A	G
SEQ ID NO:1712	SsSNP2006_1731	121	A	G
SEQ ID NO:1713	SsSNP2006_1732	121	A	G
SEQ ID NO:1714	SsSNP2006_1733	121	A	G
SEQ ID NO:1715	SsSNP2006_1734	121	A	G
SEQ ID NO:1716	SsSNP2006_1735	121	A	C
SEQ ID NO:1717	SsSNP2006_1736	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1718	SsSNP2006_1737	121	A	G
SEQ ID NO:1719	SsSNP2006_1738	121	A	G
SEQ ID NO:1720	SsSNP2006_1739	121	A	G
SEQ ID NO:1721	SsSNP2006_1740	110	A	C
SEQ ID NO:1722	SsSNP2006_1741	121	A	G
SEQ ID NO:1723	SsSNP2006_1742	121	A	G
SEQ ID NO:1724	SsSNP2006_1743	121	A	G
SEQ ID NO:1725	SsSNP2006_1744	121	A	C
SEQ ID NO:1726	SsSNP2006_1745	121	A	G
SEQ ID NO:1727	SsSNP2006_1746	121	A	G
SEQ ID NO:1728	SsSNP2006_1747	121	A	G
SEQ ID NO:1729	SsSNP2006_1748	121	A	G
SEQ ID NO:1730	SsSNP2006_1749	121	A	T
SEQ ID NO:1731	SsSNP2006_1750	121	A	G
SEQ ID NO:1732	SsSNP2006_1751	121	A	G
SEQ ID NO:1733	SsSNP2006_1752	121	A	C
SEQ ID NO:1734	SsSNP2006_1753	121	A	G
SEQ ID NO:1735	SsSNP2006_1754	121	A	G
SEQ ID NO:1736	SsSNP2006_1755	121	C	G
SEQ ID NO:1737	SsSNP2006_1756	121	A	G
SEQ ID NO:1738	SsSNP2006_1757	121	A	G
SEQ ID NO:1739	SsSNP2006_1758	121	A	G
SEQ ID NO:1740	SsSNP2006_1759	121	A	G
SEQ ID NO:1741	SsSNP2006_1760	121	A	T
SEQ ID NO:1742	SsSNP2006_1761	121	A	G
SEQ ID NO:1743	SsSNP2006_1762	121	A	C
SEQ ID NO:1744	SsSNP2006_1763	121	A	C
SEQ ID NO:1745	SsSNP2006_1764	121	A	G
SEQ ID NO:1746	SsSNP2006_1765	121	A	G
SEQ ID NO:1747	SsSNP2006_1766	121	C	G
SEQ ID NO:1748	SsSNP2006_1767	121	A	G
SEQ ID NO:1749	SsSNP2006_1768	121	A	C
SEQ ID NO:1750	SsSNP2006_1769	121	A	G
SEQ ID NO:1751	SsSNP2006_1770	121	A	T
SEQ ID NO:1752	SsSNP2006_1771	122	A	G
SEQ ID NO:1753	SsSNP2006_1772	121	A	G
SEQ ID NO:1754	SsSNP2006_1773	121	A	G
SEQ ID NO:1755	SsSNP2006_1774	121	A	G
SEQ ID NO:1756	SsSNP2006_1775	121	A	G
SEQ ID NO:1757	SsSNP2006_1776	121	A	G
SEQ ID NO:1758	SsSNP2006_1777	121	A	C
SEQ ID NO:1759	SsSNP2006_1778	121	A	C
SEQ ID NO:1760	SsSNP2006_1779	121	A	G
SEQ ID NO:1761	SsSNP2006_1780	121	A	G
SEQ ID NO:1762	SsSNP2006_1781	121	A	G
SEQ ID NO:1763	SsSNP2006_1782	121	A	G
SEQ ID NO:1764	SsSNP2006_1783	121	A	G
SEQ ID NO:1765	SsSNP2006_1784	121	A	C
SEQ ID NO:1766	SsSNP2006_1785	121	A	G
SEQ ID NO:1767	SsSNP2006_1786	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1768	SsSNP2006_1787	121	A	G
SEQ ID NO:1769	SsSNP2006_1788	121	A	G
SEQ ID NO:1770	SsSNP2006_1789	121	C	G
SEQ ID NO:1771	SsSNP2006_1790	121	A	G
SEQ ID NO:1772	SsSNP2006_1791	121	A	T
SEQ ID NO:1773	SsSNP2006_1792	121	A	C
SEQ ID NO:1774	SsSNP2006_1793	121	A	G
SEQ ID NO:1775	SsSNP2006_1794	121	A	G
SEQ ID NO:1776	SsSNP2006_1795	121	A	G
SEQ ID NO:1777	SsSNP2006_1796	121	A	G
SEQ ID NO:1778	SsSNP2006_1797	121	A	G
SEQ ID NO:1779	SsSNP2006_1798	121	C	G
SEQ ID NO:1780	SsSNP2006_1799	121	A	G
SEQ ID NO:1781	SsSNP2006_1800	121	A	G
SEQ ID NO:1782	SsSNP2006_1801	121	A	G
SEQ ID NO:1783	SsSNP2006_1802	121	A	G
SEQ ID NO:1784	SsSNP2006_1803	121	A	C
SEQ ID NO:1785	SsSNP2006_1804	121	A	G
SEQ ID NO:1786	SsSNP2006_1805	121	A	G
SEQ ID NO:1787	SsSNP2006_1806	121	A	G
SEQ ID NO:1788	SsSNP2006_1807	121	A	G
SEQ ID NO:1789	SsSNP2006_1808	121	A	G
SEQ ID NO:1790	SsSNP2006_1809	121	A	G
SEQ ID NO:1791	SsSNP2006_1810	121	A	G
SEQ ID NO:1792	SsSNP2006_1811	121	A	T
SEQ ID NO:1793	SsSNP2006_1812	121	A	G
SEQ ID NO:1794	SsSNP2006_1813	121	A	G
SEQ ID NO:1795	SsSNP2006_1814	121	A	G
SEQ ID NO:1796	SsSNP2006_1815	121	C	G
SEQ ID NO:1797	SsSNP2006_1816	121	A	G
SEQ ID NO:1798	SsSNP2006_1817	105	A	G
SEQ ID NO:1799	SsSNP2006_1818	121	A	G
SEQ ID NO:1800	SsSNP2006_1819	121	A	T
SEQ ID NO:1801	SsSNP2006_1820	121	A	G
SEQ ID NO:1802	SsSNP2006_1821	121	A	G
SEQ ID NO:1803	SsSNP2006_1822	121	A	G
SEQ ID NO:1804	SsSNP2006_1823	121	C	G
SEQ ID NO:1805	SsSNP2006_1824	121	A	C
SEQ ID NO:1806	SsSNP2006_1825	121	A	C
SEQ ID NO:1807	SsSNP2006_1826	121	A	G
SEQ ID NO:1808	SsSNP2006_1827	121	A	C
SEQ ID NO:1809	SsSNP2006_1828	121	A	G
SEQ ID NO:1810	SsSNP2006_1829	121	A	T
SEQ ID NO:1811	SsSNP2006_1830	121	A	G
SEQ ID NO:1812	SsSNP2006_1831	121	A	G
SEQ ID NO:1813	SsSNP2006_1832	121	A	G
SEQ ID NO:1814	SsSNP2006_1833	121	A	C
SEQ ID NO:1815	SsSNP2006_1834	121	A	G
SEQ ID NO:1816	SsSNP2006_1835	121	A	C
SEQ ID NO:1817	SsSNP2006_1836	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1818	SsSNP2006_1837	121	A	G
SEQ ID NO:1819	SsSNP2006_1838	121	A	C
SEQ ID NO:1820	SsSNP2006_1839	121	A	C
SEQ ID NO:1821	SsSNP2006_1840	121	A	G
SEQ ID NO:1822	SsSNP2006_1841	121	A	G
SEQ ID NO:1823	SsSNP2006_1842	121	A	G
SEQ ID NO:1824	SsSNP2006_1843	121	A	G
SEQ ID NO:1825	SsSNP2006_1844	121	A	C
SEQ ID NO:1826	SsSNP2006_1845	121	A	G
SEQ ID NO:1827	SsSNP2006_1846	121	A	G
SEQ ID NO:1828	SsSNP2006_1847	121	A	G
SEQ ID NO:1829	SsSNP2006_1848	121	A	G
SEQ ID NO:1830	SsSNP2006_1849	121	A	C
SEQ ID NO:1831	SsSNP2006_1850	121	A	G
SEQ ID NO:1832	SsSNP2006_1851	121	A	G
SEQ ID NO:1833	SsSNP2006_1852	121	A	T
SEQ ID NO:1834	SsSNP2006_1853	121	A	G
SEQ ID NO:1835	SsSNP2006_1854	121	A	G
SEQ ID NO:1836	SsSNP2006_1855	121	C	G
SEQ ID NO:1837	SsSNP2006_1856	121	A	G
SEQ ID NO:1838	SsSNP2006_1857	121	A	G
SEQ ID NO:1839	SsSNP2006_1858	121	A	C
SEQ ID NO:1840	SsSNP2006_1859	121	A	G
SEQ ID NO:1841	SsSNP2006_1860	121	A	C
SEQ ID NO:1842	SsSNP2006_1861	121	A	G
SEQ ID NO:1843	SsSNP2006_1862	121	A	G
SEQ ID NO:1844	SsSNP2006_1863	121	A	G
SEQ ID NO:1845	SsSNP2006_1864	121	C	G
SEQ ID NO:1846	SsSNP2006_1865	121	C	G
SEQ ID NO:1847	SsSNP2006_1866	121	C	G
SEQ ID NO:1848	SsSNP2006_1867	121	C	G
SEQ ID NO:1849	SsSNP2006_1868	121	A	G
SEQ ID NO:1850	SsSNP2006_1869	121	A	C
SEQ ID NO:1851	SsSNP2006_1870	121	A	G
SEQ ID NO:1852	SsSNP2006_1871	121	A	T
SEQ ID NO:1853	SsSNP2006_1872	121	A	G
SEQ ID NO:1854	SsSNP2006_1873	121	A	G
SEQ ID NO:1855	SsSNP2006_1874	121	A	G
SEQ ID NO:1856	SsSNP2006_1875	121	A	G
SEQ ID NO:1857	SsSNP2006_1876	121	A	G
SEQ ID NO:1858	SsSNP2006_1877	121	A	G
SEQ ID NO:1859	SsSNP2006_1878	121	A	G
SEQ ID NO:1860	SsSNP2006_1879	121	A	T
SEQ ID NO:1861	SsSNP2006_1880	121	A	G
SEQ ID NO:1862	SsSNP2006_1881	121	A	G
SEQ ID NO:1863	SsSNP2006_1882	121	A	G
SEQ ID NO:1864	SsSNP2006_1883	121	A	G
SEQ ID NO:1865	SsSNP2006_1884	121	A	G
SEQ ID NO:1866	SsSNP2006_1885	121	A	G
SEQ ID NO:1867	SsSNP2006_1886	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1868	SsSNP2006_1887	121	A	G
SEQ ID NO:1869	SsSNP2006_1888	121	A	T
SEQ ID NO:1870	SsSNP2006_1889	121	A	G
SEQ ID NO:1871	SsSNP2006_1890	121	A	G
SEQ ID NO:1872	SsSNP2006_1891	121	A	C
SEQ ID NO:1873	SsSNP2006_1892	121	A	C
SEQ ID NO:1874	SsSNP2006_1893	121	A	C
SEQ ID NO:1875	SsSNP2006_1894	121	A	G
SEQ ID NO:1876	SsSNP2006_1895	121	A	G
SEQ ID NO:1877	SsSNP2006_1896	121	A	G
SEQ ID NO:1878	SsSNP2006_1897	121	A	G
SEQ ID NO:1879	SsSNP2006_1898	121	A	G
SEQ ID NO:1880	SsSNP2006_1899	121	C	G
SEQ ID NO:1881	SsSNP2006_1900	121	A	G
SEQ ID NO:1882	SsSNP2006_1901	121	A	G
SEQ ID NO:1883	SsSNP2006_1902	121	A	C
SEQ ID NO:1884	SsSNP2006_1903	121	A	G
SEQ ID NO:1885	SsSNP2006_1904	121	A	G
SEQ ID NO:1886	SsSNP2006_1905	121	A	G
SEQ ID NO:1887	SsSNP2006_1906	121	A	C
SEQ ID NO:1888	SsSNP2006_1907	121	A	G
SEQ ID NO:1889	SsSNP2006_1908	121	A	G
SEQ ID NO:1890	SsSNP2006_1909	121	A	G
SEQ ID NO:1891	SsSNP2006_1910	121	A	G
SEQ ID NO:1892	SsSNP2006_1911	121	A	G
SEQ ID NO:1893	SsSNP2006_1912	121	A	G
SEQ ID NO:1894	SsSNP2006_1913	121	A	G
SEQ ID NO:1895	SsSNP2006_1914	121	A	C
SEQ ID NO:1896	SsSNP2006_1915	121	A	G
SEQ ID NO:1897	SsSNP2006_1916	121	A	G
SEQ ID NO:1898	SsSNP2006_1917	121	A	G
SEQ ID NO:1899	SsSNP2006_1918	121	C	G
SEQ ID NO:1900	SsSNP2006_1919	121	A	G
SEQ ID NO:1901	SsSNP2006_1920	121	A	C
SEQ ID NO:1902	SsSNP2006_1921	121	A	G
SEQ ID NO:1903	SsSNP2006_1922	121	A	G
SEQ ID NO:1904	SsSNP2006_1923	121	A	G
SEQ ID NO:1905	SsSNP2006_1924	121	A	G
SEQ ID NO:1906	SsSNP2006_1925	121	A	G
SEQ ID NO:1907	SsSNP2006_1926	121	A	C
SEQ ID NO:1908	SsSNP2006_1927	121	A	G
SEQ ID NO:1909	SsSNP2006_1928	121	A	C
SEQ ID NO:1910	SsSNP2006_1929	121	A	G
SEQ ID NO:1911	SsSNP2006_1930	121	A	G
SEQ ID NO:1912	SsSNP2006_1931	121	A	G
SEQ ID NO:1913	SsSNP2006_1932	121	A	G
SEQ ID NO:1914	SsSNP2006_1933	121	A	G
SEQ ID NO:1915	SsSNP2006_1934	121	A	G
SEQ ID NO:1916	SsSNP2006_1935	121	A	C
SEQ ID NO:1917	SsSNP2006_1936	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1918	SsSNP2006_1937	121	A	G
SEQ ID NO:1919	SsSNP2006_1938	121	C	G
SEQ ID NO:1920	SsSNP2006_1939	121	A	G
SEQ ID NO:1921	SsSNP2006_1940	121	A	T
SEQ ID NO:1922	SsSNP2006_1941	121	A	G
SEQ ID NO:1923	SsSNP2006_1942	121	A	G
SEQ ID NO:1924	SsSNP2006_1943	121	A	G
SEQ ID NO:1925	SsSNP2006_1944	121	A	T
SEQ ID NO:1926	SsSNP2006_1945	121	A	G
SEQ ID NO:1927	SsSNP2006_1946	121	A	G
SEQ ID NO:1928	SsSNP2006_1947	121	A	C
SEQ ID NO:1929	SsSNP2006_1948	121	A	C
SEQ ID NO:1930	SsSNP2006_1949	121	C	G
SEQ ID NO:1931	SsSNP2006_1950	121	A	G
SEQ ID NO:1932	SsSNP2006_1951	121	A	C
SEQ ID NO:1933	SsSNP2006_1952	121	A	C
SEQ ID NO:1934	SsSNP2006_1953	121	A	G
SEQ ID NO:1935	SsSNP2006_1954	121	A	G
SEQ ID NO:1936	SsSNP2006_1955	121	A	G
SEQ ID NO:1937	SsSNP2006_1956	121	A	G
SEQ ID NO:1938	SsSNP2006_1957	121	A	G
SEQ ID NO:1939	SsSNP2006_1958	121	A	G
SEQ ID NO:1940	SsSNP2006_1959	121	A	G
SEQ ID NO:1941	SsSNP2006_1960	121	A	C
SEQ ID NO:1942	SsSNP2006_1961	121	A	G
SEQ ID NO:1943	SsSNP2006_1962	121	A	G
SEQ ID NO:1944	SsSNP2006_1963	121	A	G
SEQ ID NO:1945	SsSNP2006_1964	121	A	G
SEQ ID NO:1946	SsSNP2006_1965	121	A	G
SEQ ID NO:1947	SsSNP2006_1966	121	A	T
SEQ ID NO:1948	SsSNP2006_1967	121	A	G
SEQ ID NO:1949	SsSNP2006_1968	121	A	G
SEQ ID NO:1950	SsSNP2006_1969	121	A	G
SEQ ID NO:1951	SsSNP2006_1970	121	A	G
SEQ ID NO:1952	SsSNP2006_1971	121	A	G
SEQ ID NO:1953	SsSNP2006_1972	121	A	T
SEQ ID NO:1954	SsSNP2006_1973	121	C	G
SEQ ID NO:1955	SsSNP2006_1974	121	A	G
SEQ ID NO:1956	SsSNP2006_1975	121	A	C
SEQ ID NO:1957	SsSNP2006_1976	121	A	G
SEQ ID NO:1958	SsSNP2006_1977	121	A	G
SEQ ID NO:1959	SsSNP2006_1978	121	A	G
SEQ ID NO:1960	SsSNP2006_1979	121	A	G
SEQ ID NO:1961	SsSNP2006_1980	121	A	C
SEQ ID NO:1962	SsSNP2006_1981	121	A	G
SEQ ID NO:1963	SsSNP2006_1982	121	C	G
SEQ ID NO:1964	SsSNP2006_1983	121	A	G
SEQ ID NO:1965	SsSNP2006_1984	121	A	G
SEQ ID NO:1966	SsSNP2006_1985	121	A	G
SEQ ID NO:1967	SsSNP2006_1986	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:1968	SsSNP2006_1987	121	A	G
SEQ ID NO:1969	SsSNP2006_1988	121	A	G
SEQ ID NO:1970	SsSNP2006_1989	121	A	G
SEQ ID NO:1971	SsSNP2006_1990	121	A	C
SEQ ID NO:1972	SsSNP2006_1991	121	A	G
SEQ ID NO:1973	SsSNP2006_1992	121	A	G
SEQ ID NO:1974	SsSNP2006_1993	121	A	G
SEQ ID NO:1975	SsSNP2006_1994	121	A	G
SEQ ID NO:1976	SsSNP2006_1995	121	C	G
SEQ ID NO:1977	SsSNP2006_1996	121	A	G
SEQ ID NO:1978	SsSNP2006_1997	121	A	C
SEQ ID NO:1979	SsSNP2006_1998	121	C	G
SEQ ID NO:1980	SsSNP2006_1999	121	A	G
SEQ ID NO:1981	SsSNP2006_2000	121	A	G
SEQ ID NO:1982	SsSNP2006_2001	121	A	G
SEQ ID NO:1983	SsSNP2006_2002	121	A	C
SEQ ID NO:1984	SsSNP2006_2003	121	A	G
SEQ ID NO:1985	SsSNP2006_2004	121	A	G
SEQ ID NO:1986	SsSNP2006_2005	121	A	G
SEQ ID NO:1987	SsSNP2006_2006	121	A	C
SEQ ID NO:1988	SsSNP2006_2007	121	C	G
SEQ ID NO:1989	SsSNP2006_2008	121	A	T
SEQ ID NO:1990	SsSNP2006_2009	121	C	G
SEQ ID NO:1991	SsSNP2006_2010	121	A	G
SEQ ID NO:1992	SsSNP2006_2011	121	C	G
SEQ ID NO:1993	SsSNP2006_2012	121	A	G
SEQ ID NO:1994	SsSNP2006_2013	121	C	G
SEQ ID NO:1995	SsSNP2006_2014	121	A	C
SEQ ID NO:1996	SsSNP2006_2015	121	A	C
SEQ ID NO:1997	SsSNP2006_2016	121	A	G
SEQ ID NO:1998	SsSNP2006_2017	121	A	G
SEQ ID NO:1999	SsSNP2006_2018	121	A	C
SEQ ID NO:2000	SsSNP2006_2019	121	A	C
SEQ ID NO:2001	SsSNP2006_2020	121	A	G
SEQ ID NO:2002	SsSNP2006_2021	121	A	T
SEQ ID NO:2003	SsSNP2006_2022	121	A	G
SEQ ID NO:2004	SsSNP2006_2023	121	A	G
SEQ ID NO:2005	SsSNP2006_2024	121	A	G
SEQ ID NO:2006	SsSNP2006_2025	121	A	G
SEQ ID NO:2007	SsSNP2006_2026	121	A	G
SEQ ID NO:2008	SsSNP2006_2027	121	A	G
SEQ ID NO:2009	SsSNP2006_2028	121	A	G
SEQ ID NO:2010	SsSNP2006_2029	121	A	C
SEQ ID NO:2011	SsSNP2006_2030	121	A	G
SEQ ID NO:2012	SsSNP2006_2031	121	A	G
SEQ ID NO:2013	SsSNP2006_2032	121	A	G
SEQ ID NO:2014	SsSNP2006_2033	121	A	T
SEQ ID NO:2015	SsSNP2006_2034	121	A	C
SEQ ID NO:2016	SsSNP2006_2035	121	A	G
SEQ ID NO:2017	SsSNP2006_2036	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2018	SsSNP2006_2037	121	A	G
SEQ ID NO:2019	SsSNP2006_2038	121	A	G
SEQ ID NO:2020	SsSNP2006_2039	121	A	C
SEQ ID NO:2021	SsSNP2006_2040	121	A	G
SEQ ID NO:2022	SsSNP2006_2041	121	A	G
SEQ ID NO:2023	SsSNP2006_2042	121	A	C
SEQ ID NO:2024	SsSNP2006_2043	121	A	G
SEQ ID NO:2025	SsSNP2006_2044	121	A	G
SEQ ID NO:2026	SsSNP2006_2045	121	A	G
SEQ ID NO:2027	SsSNP2006_2046	121	A	G
SEQ ID NO:2028	SsSNP2006_2047	121	A	G
SEQ ID NO:2029	SsSNP2006_2048	121	A	G
SEQ ID NO:2030	SsSNP2006_2049	121	A	G
SEQ ID NO:2031	SsSNP2006_2050	121	A	G
SEQ ID NO:2032	SsSNP2006_2051	121	A	T
SEQ ID NO:2033	SsSNP2006_2052	115	C	G
SEQ ID NO:2034	SsSNP2006_2053	121	A	G
SEQ ID NO:2035	SsSNP2006_2054	121	A	G
SEQ ID NO:2036	SsSNP2006_2055	121	A	G
SEQ ID NO:2037	SsSNP2006_2056	121	A	T
SEQ ID NO:2038	SsSNP2006_2057	121	A	G
SEQ ID NO:2039	SsSNP2006_2058	121	A	C
SEQ ID NO:2040	SsSNP2006_2059	121	A	G
SEQ ID NO:2041	SsSNP2006_2060	121	A	G
SEQ ID NO:2042	SsSNP2006_2061	121	A	G
SEQ ID NO:2043	SsSNP2006_2062	121	A	G
SEQ ID NO:2044	SsSNP2006_2063	121	A	G
SEQ ID NO:2045	SsSNP2006_2064	121	C	G
SEQ ID NO:2046	SsSNP2006_2065	121	A	G
SEQ ID NO:2047	SsSNP2006_2066	121	A	G
SEQ ID NO:2048	SsSNP2006_2067	121	A	G
SEQ ID NO:2049	SsSNP2006_2068	121	A	G
SEQ ID NO:2050	SsSNP2006_2069	121	A	G
SEQ ID NO:2051	SsSNP2006_2070	121	A	G
SEQ ID NO:2052	SsSNP2006_2071	121	A	G
SEQ ID NO:2053	SsSNP2006_2072	121	A	C
SEQ ID NO:2054	SsSNP2006_2073	121	A	G
SEQ ID NO:2055	SsSNP2006_2074	121	A	C
SEQ ID NO:2056	SsSNP2006_2075	121	A	G
SEQ ID NO:2057	SsSNP2006_2076	121	A	C
SEQ ID NO:2058	SsSNP2006_2077	121	A	G
SEQ ID NO:2059	SsSNP2006_2078	121	A	G
SEQ ID NO:2060	SsSNP2006_2079	121	A	G
SEQ ID NO:2061	SsSNP2006_2080	121	C	G
SEQ ID NO:2062	SsSNP2006_2081	121	C	G
SEQ ID NO:2063	SsSNP2006_2082	121	A	T
SEQ ID NO:2064	SsSNP2006_2083	121	A	G
SEQ ID NO:2065	SsSNP2006_2084	121	A	G
SEQ ID NO:2066	SsSNP2006_2085	121	A	C
SEQ ID NO:2067	SsSNP2006_2086	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2068	SsSNP2006_2087	121	A	G
SEQ ID NO:2069	SsSNP2006_2088	121	A	C
SEQ ID NO:2070	SsSNP2006_2089	121	A	G
SEQ ID NO:2071	SsSNP2006_2090	121	A	G
SEQ ID NO:2072	SsSNP2006_2091	121	A	G
SEQ ID NO:2073	SsSNP2006_2092	121	A	C
SEQ ID NO:2074	SsSNP2006_2093	121	C	G
SEQ ID NO:2075	SsSNP2006_2094	121	A	G
SEQ ID NO:2076	SsSNP2006_2095	121	A	C
SEQ ID NO:2077	SsSNP2006_2096	121	A	G
SEQ ID NO:2078	SsSNP2006_2097	121	A	G
SEQ ID NO:2079	SsSNP2006_2098	121	A	G
SEQ ID NO:2080	SsSNP2006_2099	121	A	G
SEQ ID NO:2081	SsSNP2006_2100	121	A	C
SEQ ID NO:2082	SsSNP2006_2101	121	A	G
SEQ ID NO:2083	SsSNP2006_2102	121	A	G
SEQ ID NO:2084	SsSNP2006_2103	121	C	G
SEQ ID NO:2085	SsSNP2006_2104	121	A	G
SEQ ID NO:2086	SsSNP2006_2105	121	A	G
SEQ ID NO:2087	SsSNP2006_2106	121	A	G
SEQ ID NO:2088	SsSNP2006_2107	121	A	G
SEQ ID NO:2089	SsSNP2006_2108	121	C	G
SEQ ID NO:2090	SsSNP2006_2109	121	A	G
SEQ ID NO:2091	SsSNP2006_2110	121	A	G
SEQ ID NO:2092	SsSNP2006_2111	121	A	G
SEQ ID NO:2093	SsSNP2006_2112	121	A	G
SEQ ID NO:2094	SsSNP2006_2113	121	A	G
SEQ ID NO:2095	SsSNP2006_2114	121	A	G
SEQ ID NO:2096	SsSNP2006_2115	121	A	G
SEQ ID NO:2097	SsSNP2006_2116	121	A	G
SEQ ID NO:2098	SsSNP2006_2117	121	A	G
SEQ ID NO:2099	SsSNP2006_2118	121	A	G
SEQ ID NO:2100	SsSNP2006_2119	121	A	G
SEQ ID NO:2101	SsSNP2006_2120	121	A	T
SEQ ID NO:2102	SsSNP2006_2121	121	A	G
SEQ ID NO:2103	SsSNP2006_2122	121	A	G
SEQ ID NO:2104	SsSNP2006_2123	121	A	G
SEQ ID NO:2105	SsSNP2006_2124	121	A	G
SEQ ID NO:2106	SsSNP2006_2125	121	A	G
SEQ ID NO:2107	SsSNP2006_2126	121	A	G
SEQ ID NO:2108	SsSNP2006_2127	121	A	G
SEQ ID NO:2109	SsSNP2006_2128	121	C	G
SEQ ID NO:2110	SsSNP2006_2129	121	A	G
SEQ ID NO:2111	SsSNP2006_2130	121	A	G
SEQ ID NO:2112	SsSNP2006_2131	121	C	G
SEQ ID NO:2113	SsSNP2006_2132	121	A	G
SEQ ID NO:2114	SsSNP2006_2133	121	A	G
SEQ ID NO:2115	SsSNP2006_2134	121	A	G
SEQ ID NO:2116	SsSNP2006_2135	121	A	G
SEQ ID NO:2117	SsSNP2006_2136	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2118	SsSNP2006_2137	121	A	G
SEQ ID NO:2119	SsSNP2006_2138	121	A	C
SEQ ID NO:2120	SsSNP2006_2139	121	A	G
SEQ ID NO:2121	SsSNP2006_2140	121	A	G
SEQ ID NO:2122	SsSNP2006_2141	121	A	G
SEQ ID NO:2123	SsSNP2006_2142	121	A	G
SEQ ID NO:2124	SsSNP2006_2143	121	A	G
SEQ ID NO:2125	SsSNP2006_2144	121	A	G
SEQ ID NO:2126	SsSNP2006_2145	121	A	G
SEQ ID NO:2127	SsSNP2006_2146	121	A	G
SEQ ID NO:2128	SsSNP2006_2147	121	C	G
SEQ ID NO:2129	SsSNP2006_2148	121	A	G
SEQ ID NO:2130	SsSNP2006_2149	121	A	G
SEQ ID NO:2131	SsSNP2006_2150	121	A	T
SEQ ID NO:2132	SsSNP2006_2151	121	A	C
SEQ ID NO:2133	SsSNP2006_2152	121	C	G
SEQ ID NO:2134	SsSNP2006_2153	121	A	G
SEQ ID NO:2135	SsSNP2006_2154	121	A	G
SEQ ID NO:2136	SsSNP2006_2155	121	A	G
SEQ ID NO:2137	SsSNP2006_2156	121	A	G
SEQ ID NO:2138	SsSNP2006_2157	121	A	C
SEQ ID NO:2139	SsSNP2006_2158	121	A	G
SEQ ID NO:2140	SsSNP2006_2159	121	A	G
SEQ ID NO:2141	SsSNP2006_2160	121	A	G
SEQ ID NO:2142	SsSNP2006_2161	121	A	G
SEQ ID NO:2143	SsSNP2006_2162	121	A	G
SEQ ID NO:2144	SsSNP2006_2163	121	C	G
SEQ ID NO:2145	SsSNP2006_2164	121	A	G
SEQ ID NO:2146	SsSNP2006_2165	121	A	G
SEQ ID NO:2147	SsSNP2006_2166	121	A	G
SEQ ID NO:2148	SsSNP2006_2167	121	A	G
SEQ ID NO:2149	SsSNP2006_2168	121	A	G
SEQ ID NO:2150	SsSNP2006_2169	121	A	G
SEQ ID NO:2151	SsSNP2006_2170	121	A	G
SEQ ID NO:2152	SsSNP2006_2171	121	A	C
SEQ ID NO:2153	SsSNP2006_2172	121	C	G
SEQ ID NO:2154	SsSNP2006_2173	121	A	G
SEQ ID NO:2155	SsSNP2006_2174	121	A	G
SEQ ID NO:2156	SsSNP2006_2175	121	A	G
SEQ ID NO:2157	SsSNP2006_2176	121	A	T
SEQ ID NO:2158	SsSNP2006_2177	120	A	G
SEQ ID NO:2159	SsSNP2006_2178	121	A	C
SEQ ID NO:2160	SsSNP2006_2179	121	A	G
SEQ ID NO:2161	SsSNP2006_2180	121	A	G
SEQ ID NO:2162	SsSNP2006_2181	121	A	T
SEQ ID NO:2163	SsSNP2006_2182	121	A	G
SEQ ID NO:2164	SsSNP2006_2183	121	A	G
SEQ ID NO:2165	SsSNP2006_2184	121	A	G
SEQ ID NO:2166	SsSNP2006_2185	121	A	G
SEQ ID NO:2167	SsSNP2006_2186	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2168	SsSNP2006_2187	121	A	G
SEQ ID NO:2169	SsSNP2006_2188	121	A	G
SEQ ID NO:2170	SsSNP2006_2189	121	A	G
SEQ ID NO:2171	SsSNP2006_2190	121	A	G
SEQ ID NO:2172	SsSNP2006_2191	121	A	G
SEQ ID NO:2173	SsSNP2006_2192	121	A	T
SEQ ID NO:2174	SsSNP2006_2193	121	A	G
SEQ ID NO:2175	SsSNP2006_2194	121	A	G
SEQ ID NO:2176	SsSNP2006_2195	121	A	C
SEQ ID NO:2177	SsSNP2006_2196	121	A	G
SEQ ID NO:2178	SsSNP2006_2197	121	A	G
SEQ ID NO:2179	SsSNP2006_2198	121	A	G
SEQ ID NO:2180	SsSNP2006_2199	121	A	G
SEQ ID NO:2181	SsSNP2006_2200	121	A	G
SEQ ID NO:2182	SsSNP2006_2201	121	C	G
SEQ ID NO:2183	SsSNP2006_2202	121	A	G
SEQ ID NO:2184	SsSNP2006_2203	121	C	G
SEQ ID NO:2185	SsSNP2006_2204	121	A	G
SEQ ID NO:2186	SsSNP2006_2205	121	A	C
SEQ ID NO:2187	SsSNP2006_2206	121	C	G
SEQ ID NO:2188	SsSNP2006_2207	121	C	G
SEQ ID NO:2189	SsSNP2006_2208	121	A	C
SEQ ID NO:2190	SsSNP2006_2209	121	A	C
SEQ ID NO:2191	SsSNP2006_2210	121	A	G
SEQ ID NO:2192	SsSNP2006_2211	121	A	G
SEQ ID NO:2193	SsSNP2006_2212	121	A	C
SEQ ID NO:2194	SsSNP2006_2213	121	A	T
SEQ ID NO:2195	SsSNP2006_2214	121	C	G
SEQ ID NO:2196	SsSNP2006_2215	121	A	G
SEQ ID NO:2197	SsSNP2006_2216	121	A	G
SEQ ID NO:2198	SsSNP2006_2217	121	C	G
SEQ ID NO:2199	SsSNP2006_2218	121	A	G
SEQ ID NO:2200	SsSNP2006_2219	121	C	G
SEQ ID NO:2201	SsSNP2006_2220	121	A	G
SEQ ID NO:2202	SsSNP2006_2221	121	A	G
SEQ ID NO:2203	SsSNP2006_2222	121	A	G
SEQ ID NO:2204	SsSNP2006_2223	121	A	G
SEQ ID NO:2205	SsSNP2006_2224	121	C	G
SEQ ID NO:2206	SsSNP2006_2225	121	A	G
SEQ ID NO:2207	SsSNP2006_2226	121	A	T
SEQ ID NO:2208	SsSNP2006_2227	121	C	G
SEQ ID NO:2209	SsSNP2006_2228	121	A	G
SEQ ID NO:2210	SsSNP2006_2229	121	A	C
SEQ ID NO:2211	SsSNP2006_2230	121	A	G
SEQ ID NO:2212	SsSNP2006_2231	121	A	G
SEQ ID NO:2213	SsSNP2006_2232	121	A	G
SEQ ID NO:2214	SsSNP2006_2233	121	A	G
SEQ ID NO:2215	SsSNP2006_2234	121	A	G
SEQ ID NO:2216	SsSNP2006_2235	121	C	G
SEQ ID NO:2217	SsSNP2006_2236	105	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2218	SsSNP2006_2237	121	A	C
SEQ ID NO:2219	SsSNP2006_2238	121	A	C
SEQ ID NO:2220	SsSNP2006_2239	121	A	G
SEQ ID NO:2221	SsSNP2006_2240	121	A	G
SEQ ID NO:2222	SsSNP2006_2241	121	A	G
SEQ ID NO:2223	SsSNP2006_2242	121	A	T
SEQ ID NO:2224	SsSNP2006_2243	121	A	G
SEQ ID NO:2225	SsSNP2006_2244	121	A	G
SEQ ID NO:2226	SsSNP2006_2245	121	A	G
SEQ ID NO:2227	SsSNP2006_2246	121	A	G
SEQ ID NO:2228	SsSNP2006_2247	121	A	T
SEQ ID NO:2229	SsSNP2006_2248	121	A	G
SEQ ID NO:2230	SsSNP2006_2249	121	A	G
SEQ ID NO:2231	SsSNP2006_2250	121	A	G
SEQ ID NO:2232	SsSNP2006_2251	121	A	G
SEQ ID NO:2233	SsSNP2006_2252	121	A	G
SEQ ID NO:2234	SsSNP2006_2253	121	A	G
SEQ ID NO:2235	SsSNP2006_2254	121	A	G
SEQ ID NO:2236	SsSNP2006_2255	121	A	T
SEQ ID NO:2237	SsSNP2006_2256	121	A	G
SEQ ID NO:2238	SsSNP2006_2257	121	A	C
SEQ ID NO:2239	SsSNP2006_2258	121	A	T
SEQ ID NO:2240	SsSNP2006_2259	121	A	G
SEQ ID NO:2241	SsSNP2006_2260	121	A	G
SEQ ID NO:2242	SsSNP2006_2261	121	A	G
SEQ ID NO:2243	SsSNP2006_2262	121	A	G
SEQ ID NO:2244	SsSNP2006_2263	80	A	C
SEQ ID NO:2245	SsSNP2006_2264	121	A	C
SEQ ID NO:2246	SsSNP2006_2265	121	C	G
SEQ ID NO:2247	SsSNP2006_2266	121	A	C
SEQ ID NO:2248	SsSNP2006_2267	121	A	G
SEQ ID NO:2249	SsSNP2006_2268	121	A	G
SEQ ID NO:2250	SsSNP2006_2269	121	A	G
SEQ ID NO:2251	SsSNP2006_2270	121	A	C
SEQ ID NO:2252	SsSNP2006_2271	121	A	G
SEQ ID NO:2253	SsSNP2006_2272	121	A	C
SEQ ID NO:2254	SsSNP2006_2273	121	A	G
SEQ ID NO:2255	SsSNP2006_2274	121	A	G
SEQ ID NO:2256	SsSNP2006_2275	121	A	G
SEQ ID NO:2257	SsSNP2006_2276	121	A	G
SEQ ID NO:2258	SsSNP2006_2277	121	A	G
SEQ ID NO:2259	SsSNP2006_2278	121	A	G
SEQ ID NO:2260	SsSNP2006_2279	121	A	C
SEQ ID NO:2261	SsSNP2006_2280	121	A	G
SEQ ID NO:2262	SsSNP2006_2281	121	A	G
SEQ ID NO:2263	SsSNP2006_2282	29	A	C
SEQ ID NO:2264	SsSNP2006_2283	121	A	G
SEQ ID NO:2265	SsSNP2006_2284	121	C	G
SEQ ID NO:2266	SsSNP2006_2285	121	A	G
SEQ ID NO:2267	SsSNP2006_2286	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2268	SsSNP2006_2287	121	A	G
SEQ ID NO:2269	SsSNP2006_2288	121	A	C
SEQ ID NO:2270	SsSNP2006_2289	121	A	T
SEQ ID NO:2271	SsSNP2006_2290	121	A	C
SEQ ID NO:2272	SsSNP2006_2291	121	A	T
SEQ ID NO:2273	SsSNP2006_2292	121	A	T
SEQ ID NO:2274	SsSNP2006_2293	121	A	G
SEQ ID NO:2275	SsSNP2006_2294	121	A	G
SEQ ID NO:2276	SsSNP2006_2295	121	A	T
SEQ ID NO:2277	SsSNP2006_2296	121	A	C
SEQ ID NO:2278	SsSNP2006_2297	121	A	G
SEQ ID NO:2279	SsSNP2006_2298	121	A	G
SEQ ID NO:2280	SsSNP2006_2299	121	A	G
SEQ ID NO:2281	SsSNP2006_2300	121	A	C
SEQ ID NO:2282	SsSNP2006_2301	121	A	G
SEQ ID NO:2283	SsSNP2006_2302	121	A	G
SEQ ID NO:2284	SsSNP2006_2303	121	C	G
SEQ ID NO:2285	SsSNP2006_2304	121	A	G
SEQ ID NO:2286	SsSNP2006_2305	121	A	G
SEQ ID NO:2287	SsSNP2006_2306	121	C	G
SEQ ID NO:2288	SsSNP2006_2307	121	A	G
SEQ ID NO:2289	SsSNP2006_2308	121	A	G
SEQ ID NO:2290	SsSNP2006_2309	121	A	G
SEQ ID NO:2291	SsSNP2006_2310	121	A	G
SEQ ID NO:2292	SsSNP2006_2311	121	A	G
SEQ ID NO:2293	SsSNP2006_2312	121	A	G
SEQ ID NO:2294	SsSNP2006_2313	121	A	G
SEQ ID NO:2295	SsSNP2006_2314	121	A	G
SEQ ID NO:2296	SsSNP2006_2315	121	A	G
SEQ ID NO:2297	SsSNP2006_2316	121	C	G
SEQ ID NO:2298	SsSNP2006_2317	121	A	T
SEQ ID NO:2299	SsSNP2006_2318	121	A	C
SEQ ID NO:2300	SsSNP2006_2319	121	A	G
SEQ ID NO:2301	SsSNP2006_2320	121	A	G
SEQ ID NO:2302	SsSNP2006_2321	121	A	C
SEQ ID NO:2303	SsSNP2006_2322	121	C	G
SEQ ID NO:2304	SsSNP2006_2323	121	A	G
SEQ ID NO:2305	SsSNP2006_2324	121	A	G
SEQ ID NO:2306	SsSNP2006_2325	121	A	G
SEQ ID NO:2307	SsSNP2006_2326	121	A	G
SEQ ID NO:2308	SsSNP2006_2327	121	A	G
SEQ ID NO:2309	SsSNP2006_2328	121	A	G
SEQ ID NO:2310	SsSNP2006_2329	121	A	C
SEQ ID NO:2311	SsSNP2006_2330	121	A	G
SEQ ID NO:2312	SsSNP2006_2331	121	A	G
SEQ ID NO:2313	SsSNP2006_2332	121	A	G
SEQ ID NO:2314	SsSNP2006_2333	121	C	G
SEQ ID NO:2315	SsSNP2006_2334	121	A	G
SEQ ID NO:2316	SsSNP2006_2335	121	A	G
SEQ ID NO:2317	SsSNP2006_2336	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2318	SsSNP2006_2337	121	A	G
SEQ ID NO:2319	SsSNP2006_2338	121	A	G
SEQ ID NO:2320	SsSNP2006_2339	121	A	C
SEQ ID NO:2321	SsSNP2006_2340	121	A	G
SEQ ID NO:2322	SsSNP2006_2341	121	A	G
SEQ ID NO:2323	SsSNP2006_2342	121	A	G
SEQ ID NO:2324	SsSNP2006_2343	121	C	G
SEQ ID NO:2325	SsSNP2006_2344	121	A	G
SEQ ID NO:2326	SsSNP2006_2345	121	A	G
SEQ ID NO:2327	SsSNP2006_2346	121	A	G
SEQ ID NO:2328	SsSNP2006_2347	95	A	G
SEQ ID NO:2329	SsSNP2006_2348	121	A	G
SEQ ID NO:2330	SsSNP2006_2349	121	A	G
SEQ ID NO:2331	SsSNP2006_2350	121	A	G
SEQ ID NO:2332	SsSNP2006_2351	121	A	G
SEQ ID NO:2333	SsSNP2006_2352	121	A	G
SEQ ID NO:2334	SsSNP2006_2353	121	A	G
SEQ ID NO:2335	SsSNP2006_2354	121	A	G
SEQ ID NO:2336	SsSNP2006_2355	121	A	G
SEQ ID NO:2337	SsSNP2006_2356	121	A	G
SEQ ID NO:2338	SsSNP2006_2357	121	A	C
SEQ ID NO:2339	SsSNP2006_2358	121	A	C
SEQ ID NO:2340	SsSNP2006_2359	121	A	G
SEQ ID NO:2341	SsSNP2006_2360	121	A	G
SEQ ID NO:2342	SsSNP2006_2361	121	A	C
SEQ ID NO:2343	SsSNP2006_2362	121	A	G
SEQ ID NO:2344	SsSNP2006_2363	121	A	T
SEQ ID NO:2345	SsSNP2006_2364	121	A	G
SEQ ID NO:2346	SsSNP2006_2365	121	A	G
SEQ ID NO:2347	SsSNP2006_2366	121	A	G
SEQ ID NO:2348	SsSNP2006_2367	121	A	G
SEQ ID NO:2349	SsSNP2006_2368	121	A	G
SEQ ID NO:2350	SsSNP2006_2369	121	A	C
SEQ ID NO:2351	SsSNP2006_2370	121	A	G
SEQ ID NO:2352	SsSNP2006_2371	121	A	G
SEQ ID NO:2353	SsSNP2006_2372	121	A	G
SEQ ID NO:2354	SsSNP2006_2373	121	C	G
SEQ ID NO:2355	SsSNP2006_2374	121	A	C
SEQ ID NO:2356	SsSNP2006_2375	121	A	C
SEQ ID NO:2357	SsSNP2006_2376	121	A	G
SEQ ID NO:2358	SsSNP2006_2377	121	C	G
SEQ ID NO:2359	SsSNP2006_2378	121	C	G
SEQ ID NO:2360	SsSNP2006_2379	121	A	G
SEQ ID NO:2361	SsSNP2006_2380	121	A	C
SEQ ID NO:2362	SsSNP2006_2381	121	A	G
SEQ ID NO:2363	SsSNP2006_2382	121	A	C
SEQ ID NO:2364	SsSNP2006_2383	121	A	T
SEQ ID NO:2365	SsSNP2006_2384	121	A	G
SEQ ID NO:2366	SsSNP2006_2385	121	A	G
SEQ ID NO:2367	SsSNP2006_2386	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2368	SsSNP2006_2387	121	A	G
SEQ ID NO:2369	SsSNP2006_2388	121	A	G
SEQ ID NO:2370	SsSNP2006_2389	121	A	G
SEQ ID NO:2371	SsSNP2006_2390	121	A	G
SEQ ID NO:2372	SsSNP2006_2391	121	A	G
SEQ ID NO:2373	SsSNP2006_2392	121	A	C
SEQ ID NO:2374	SsSNP2006_2393	121	A	G
SEQ ID NO:2375	SsSNP2006_2394	121	A	G
SEQ ID NO:2376	SsSNP2006_2395	121	A	G
SEQ ID NO:2377	SsSNP2006_2396	121	A	G
SEQ ID NO:2378	SsSNP2006_2397	121	A	G
SEQ ID NO:2379	SsSNP2006_2398	121	C	G
SEQ ID NO:2380	SsSNP2006_2399	121	A	C
SEQ ID NO:2381	SsSNP2006_2400	121	A	G
SEQ ID NO:2382	SsSNP2006_2401	121	A	G
SEQ ID NO:2383	SsSNP2006_2402	121	A	G
SEQ ID NO:2384	SsSNP2006_2403	121	A	G
SEQ ID NO:2385	SsSNP2006_2404	121	A	G
SEQ ID NO:2386	SsSNP2006_2405	121	A	G
SEQ ID NO:2387	SsSNP2006_2406	121	A	G
SEQ ID NO:2388	SsSNP2006_2407	121	A	G
SEQ ID NO:2389	SsSNP2006_2408	121	A	G
SEQ ID NO:2390	SsSNP2006_2409	121	A	G
SEQ ID NO:2391	SsSNP2006_2410	121	C	G
SEQ ID NO:2392	SsSNP2006_2411	121	C	G
SEQ ID NO:2393	SsSNP2006_2412	121	C	G
SEQ ID NO:2394	SsSNP2006_2413	121	A	G
SEQ ID NO:2395	SsSNP2006_2414	121	A	G
SEQ ID NO:2396	SsSNP2006_2415	121	A	G
SEQ ID NO:2397	SsSNP2006_2416	121	A	G
SEQ ID NO:2398	SsSNP2006_2417	121	A	G
SEQ ID NO:2399	SsSNP2006_2418	121	A	G
SEQ ID NO:2400	SsSNP2006_2419	121	A	C
SEQ ID NO:2401	SsSNP2006_2420	121	A	G
SEQ ID NO:2402	SsSNP2006_2421	121	A	G
SEQ ID NO:2403	SsSNP2006_2422	121	A	C
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SEQ ID NO:2405	SsSNP2006_2424	121	A	G
SEQ ID NO:2406	SsSNP2006_2425	121	A	G
SEQ ID NO:2407	SsSNP2006_2426	121	A	G
SEQ ID NO:2408	SsSNP2006_2427	121	A	G
SEQ ID NO:2409	SsSNP2006_2428	121	A	T
SEQ ID NO:2410	SsSNP2006_2429	121	A	G
SEQ ID NO:2411	SsSNP2006_2430	121	A	T
SEQ ID NO:2412	SsSNP2006_2431	121	A	G
SEQ ID NO:2413	SsSNP2006_2432	121	A	G
SEQ ID NO:2414	SsSNP2006_2433	121	A	G
SEQ ID NO:2415	SsSNP2006_2434	121	A	G
SEQ ID NO:2416	SsSNP2006_2435	121	A	G
SEQ ID NO:2417	SsSNP2006_2436	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2418	SsSNP2006_2437	121	A	G
SEQ ID NO:2419	SsSNP2006_2438	121	A	C
SEQ ID NO:2420	SsSNP2006_2439	121	A	G
SEQ ID NO:2421	SsSNP2006_2440	121	A	G
SEQ ID NO:2422	SsSNP2006_2441	121	A	G
SEQ ID NO:2423	SsSNP2006_2442	121	A	C
SEQ ID NO:2424	SsSNP2006_2443	121	A	G
SEQ ID NO:2425	SsSNP2006_2444	121	A	G
SEQ ID NO:2426	SsSNP2006_2445	121	A	G
SEQ ID NO:2427	SsSNP2006_2446	121	A	G
SEQ ID NO:2428	SsSNP2006_2447	121	A	G
SEQ ID NO:2429	SsSNP2006_2448	121	C	G
SEQ ID NO:2430	SsSNP2006_2449	121	A	G
SEQ ID NO:2431	SsSNP2006_2450	121	A	C
SEQ ID NO:2432	SsSNP2006_2451	121	A	G
SEQ ID NO:2433	SsSNP2006_2452	121	A	G
SEQ ID NO:2434	SsSNP2006_2453	121	A	G
SEQ ID NO:2435	SsSNP2006_2454	121	A	G
SEQ ID NO:2436	SsSNP2006_2455	121	A	G
SEQ ID NO:2437	SsSNP2006_2456	121	A	C
SEQ ID NO:2438	SsSNP2006_2457	121	A	G
SEQ ID NO:2439	SsSNP2006_2458	121	A	T
SEQ ID NO:2440	SsSNP2006_2459	121	A	T
SEQ ID NO:2441	SsSNP2006_2460	121	A	G
SEQ ID NO:2442	SsSNP2006_2461	121	A	G
SEQ ID NO:2443	SsSNP2006_2462	121	C	G
SEQ ID NO:2444	SsSNP2006_2463	121	A	G
SEQ ID NO:2445	SsSNP2006_2464	121	A	G
SEQ ID NO:2446	SsSNP2006_2465	121	A	G
SEQ ID NO:2447	SsSNP2006_2466	121	A	G
SEQ ID NO:2448	SsSNP2006_2467	121	A	G
SEQ ID NO:2449	SsSNP2006_2468	121	A	G
SEQ ID NO:2450	SsSNP2006_2469	121	A	G
SEQ ID NO:2451	SsSNP2006_2470	121	A	G
SEQ ID NO:2452	SsSNP2006_2471	121	A	G
SEQ ID NO:2453	SsSNP2006_2472	121	A	G
SEQ ID NO:2454	SsSNP2006_2473	121	A	G
SEQ ID NO:2455	SsSNP2006_2474	121	A	G
SEQ ID NO:2456	SsSNP2006_2475	121	A	G
SEQ ID NO:2457	SsSNP2006_2476	121	A	T
SEQ ID NO:2458	SsSNP2006_2477	121	A	G
SEQ ID NO:2459	SsSNP2006_2478	121	A	G
SEQ ID NO:2460	SsSNP2006_2479	121	A	C
SEQ ID NO:2461	SsSNP2006_2480	121	A	G
SEQ ID NO:2462	SsSNP2006_2481	121	A	T
SEQ ID NO:2463	SsSNP2006_2482	121	A	C
SEQ ID NO:2464	SsSNP2006_2483	121	A	G
SEQ ID NO:2465	SsSNP2006_2484	121	A	C
SEQ ID NO:2466	SsSNP2006_2485	121	A	G
SEQ ID NO:2467	SsSNP2006_2486	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2468	SsSNP2006_2487	121	A	C
SEQ ID NO:2469	SsSNP2006_2488	121	A	G
SEQ ID NO:2470	SsSNP2006_2489	121	A	C
SEQ ID NO:2471	SsSNP2006_2490	121	A	G
SEQ ID NO:2472	SsSNP2006_2491	121	A	G
SEQ ID NO:2473	SsSNP2006_2492	121	A	G
SEQ ID NO:2474	SsSNP2006_2493	121	A	G
SEQ ID NO:2475	SsSNP2006_2494	121	A	G
SEQ ID NO:2476	SsSNP2006_2495	121	A	G
SEQ ID NO:2477	SsSNP2006_2496	121	C	G
SEQ ID NO:2478	SsSNP2006_2497	121	A	G
SEQ ID NO:2479	SsSNP2006_2498	121	A	G
SEQ ID NO:2480	SsSNP2006_2499	121	A	G
SEQ ID NO:2481	SsSNP2006_2500	121	A	C
SEQ ID NO:2482	SsSNP2006_2501	121	A	T
SEQ ID NO:2483	SsSNP2006_2502	121	A	G
SEQ ID NO:2484	SsSNP2006_2503	121	A	G
SEQ ID NO:2485	SsSNP2006_2504	121	A	G
SEQ ID NO:2486	SsSNP2006_2505	121	A	G
SEQ ID NO:2487	SsSNP2006_2506	121	A	C
SEQ ID NO:2488	SsSNP2006_2507	121	A	G
SEQ ID NO:2489	SsSNP2006_2508	121	A	G
SEQ ID NO:2490	SsSNP2006_2509	121	A	G
SEQ ID NO:2491	SsSNP2006_2510	121	A	G
SEQ ID NO:2492	SsSNP2006_2511	121	A	G
SEQ ID NO:2493	SsSNP2006_2512	121	A	C
SEQ ID NO:2494	SsSNP2006_2513	121	A	G
SEQ ID NO:2495	SsSNP2006_2514	121	A	G
SEQ ID NO:2496	SsSNP2006_2515	121	A	T
SEQ ID NO:2497	SsSNP2006_2516	121	A	G
SEQ ID NO:2498	SsSNP2006_2517	121	A	T
SEQ ID NO:2499	SsSNP2006_2518	121	A	G
SEQ ID NO:2500	SsSNP2006_2519	121	A	G
SEQ ID NO:2501	SsSNP2006_2520	121	A	G
SEQ ID NO:2502	SsSNP2006_2521	121	A	G
SEQ ID NO:2503	SsSNP2006_2522	121	A	T
SEQ ID NO:2504	SsSNP2006_2523	121	A	C
SEQ ID NO:2505	SsSNP2006_2524	121	C	G
SEQ ID NO:2506	SsSNP2006_2525	121	A	G
SEQ ID NO:2507	SsSNP2006_2526	121	A	G
SEQ ID NO:2508	SsSNP2006_2527	121	C	G
SEQ ID NO:2509	SsSNP2006_2528	121	A	G
SEQ ID NO:2510	SsSNP2006_2529	121	A	G
SEQ ID NO:2511	SsSNP2006_2530	121	A	C
SEQ ID NO:2512	SsSNP2006_2531	121	A	G
SEQ ID NO:2513	SsSNP2006_2532	121	A	G
SEQ ID NO:2514	SsSNP2006_2533	121	A	G
SEQ ID NO:2515	SsSNP2006_2534	121	A	C
SEQ ID NO:2516	SsSNP2006_2535	121	A	G
SEQ ID NO:2517	SsSNP2006_2536	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2518	SsSNP2006_2537	121	A	G
SEQ ID NO:2519	SsSNP2006_2538	121	A	G
SEQ ID NO:2520	SsSNP2006_2539	121	A	T
SEQ ID NO:2521	SsSNP2006_2540	121	A	G
SEQ ID NO:2522	SsSNP2006_2541	121	A	G
SEQ ID NO:2523	SsSNP2006_2542	121	A	G
SEQ ID NO:2524	SsSNP2006_2543	121	A	G
SEQ ID NO:2525	SsSNP2006_2544	121	A	C
SEQ ID NO:2526	SsSNP2006_2545	121	A	G
SEQ ID NO:2527	SsSNP2006_2546	121	A	T
SEQ ID NO:2528	SsSNP2006_2547	121	A	G
SEQ ID NO:2529	SsSNP2006_2548	121	A	G
SEQ ID NO:2530	SsSNP2006_2549	121	A	T
SEQ ID NO:2531	SsSNP2006_2550	121	A	G
SEQ ID NO:2532	SsSNP2006_2551	121	A	G
SEQ ID NO:2533	SsSNP2006_2552	121	A	G
SEQ ID NO:2534	SsSNP2006_2553	121	C	G
SEQ ID NO:2535	SsSNP2006_2554	121	A	G
SEQ ID NO:2536	SsSNP2006_2555	121	A	G
SEQ ID NO:2537	SsSNP2006_2556	121	A	G
SEQ ID NO:2538	SsSNP2006_2557	121	A	C
SEQ ID NO:2539	SsSNP2006_2558	121	A	T
SEQ ID NO:2540	SsSNP2006_2559	121	A	G
SEQ ID NO:2541	SsSNP2006_2560	121	A	G
SEQ ID NO:2542	SsSNP2006_2561	121	A	T
SEQ ID NO:2543	SsSNP2006_2562	121	A	C
SEQ ID NO:2544	SsSNP2006_2563	121	A	G
SEQ ID NO:2545	SsSNP2006_2564	121	A	G
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SEQ ID NO:2547	SsSNP2006_2566	121	A	G
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SEQ ID NO:2549	SsSNP2006_2568	121	A	G
SEQ ID NO:2550	SsSNP2006_2569	121	A	T
SEQ ID NO:2551	SsSNP2006_2570	121	A	G
SEQ ID NO:2552	SsSNP2006_2571	121	A	C
SEQ ID NO:2553	SsSNP2006_2572	121	A	G
SEQ ID NO:2554	SsSNP2006_2573	121	A	G
SEQ ID NO:2555	SsSNP2006_2574	121	A	G
SEQ ID NO:2556	SsSNP2006_2575	121	A	G
SEQ ID NO:2557	SsSNP2006_2576	121	A	G
SEQ ID NO:2558	SsSNP2006_2577	121	A	G
SEQ ID NO:2559	SsSNP2006_2578	121	A	G
SEQ ID NO:2560	SsSNP2006_2579	121	A	G
SEQ ID NO:2561	SsSNP2006_2580	121	A	G
SEQ ID NO:2562	SsSNP2006_2581	121	A	G
SEQ ID NO:2563	SsSNP2006_2582	121	A	G
SEQ ID NO:2564	SsSNP2006_2583	121	A	G
SEQ ID NO:2565	SsSNP2006_2584	121	A	G
SEQ ID NO:2566	SsSNP2006_2585	121	A	T
SEQ ID NO:2567	SsSNP2006_2586	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2568	SsSNP2006_2587	121	A	G
SEQ ID NO:2569	SsSNP2006_2588	121	A	G
SEQ ID NO:2570	SsSNP2006_2589	121	A	G
SEQ ID NO:2571	SsSNP2006_2590	121	A	G
SEQ ID NO:2572	SsSNP2006_2591	121	A	G
SEQ ID NO:2573	SsSNP2006_2592	121	C	G
SEQ ID NO:2574	SsSNP2006_2593	121	A	G
SEQ ID NO:2575	SsSNP2006_2594	121	A	G
SEQ ID NO:2576	SsSNP2006_2595	121	A	C
SEQ ID NO:2577	SsSNP2006_2596	121	A	G
SEQ ID NO:2578	SsSNP2006_2597	121	A	G
SEQ ID NO:2579	SsSNP2006_2598	121	A	G
SEQ ID NO:2580	SsSNP2006_2599	121	A	T
SEQ ID NO:2581	SsSNP2006_2600	121	A	G
SEQ ID NO:2582	SsSNP2006_2601	121	A	C
SEQ ID NO:2583	SsSNP2006_2602	121	A	G
SEQ ID NO:2584	SsSNP2006_2603	121	A	G
SEQ ID NO:2585	SsSNP2006_2604	121	A	C
SEQ ID NO:2586	SsSNP2006_2605	121	A	C
SEQ ID NO:2587	SsSNP2006_2606	121	A	C
SEQ ID NO:2588	SsSNP2006_2607	121	A	G
SEQ ID NO:2589	SsSNP2006_2608	121	A	G
SEQ ID NO:2590	SsSNP2006_2609	121	A	T
SEQ ID NO:2591	SsSNP2006_2610	121	A	G
SEQ ID NO:2592	SsSNP2006_2611	121	A	C
SEQ ID NO:2593	SsSNP2006_2612	121	A	G
SEQ ID NO:2594	SsSNP2006_2613	121	A	G
SEQ ID NO:2595	SsSNP2006_2614	121	A	G
SEQ ID NO:2596	SsSNP2006_2615	121	A	G
SEQ ID NO:2597	SsSNP2006_2616	121	A	G
SEQ ID NO:2598	SsSNP2006_2617	121	A	G
SEQ ID NO:2599	SsSNP2006_2618	121	A	G
SEQ ID NO:2600	SsSNP2006_2619	121	A	G
SEQ ID NO:2601	SsSNP2006_2620	121	A	C
SEQ ID NO:2602	SsSNP2006_2621	121	A	G
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SEQ ID NO:2604	SsSNP2006_2623	121	A	G
SEQ ID NO:2605	SsSNP2006_2624	121	A	G
SEQ ID NO:2606	SsSNP2006_2625	121	A	G
SEQ ID NO:2607	SsSNP2006_2626	121	A	G
SEQ ID NO:2608	SsSNP2006_2627	121	A	G
SEQ ID NO:2609	SsSNP2006_2628	121	A	G
SEQ ID NO:2610	SsSNP2006_2629	121	A	G
SEQ ID NO:2611	SsSNP2006_2630	121	A	G
SEQ ID NO:2612	SsSNP2006_2631	121	C	G
SEQ ID NO:2613	SsSNP2006_2632	121	A	C
SEQ ID NO:2614	SsSNP2006_2633	121	A	G
SEQ ID NO:2615	SsSNP2006_2634	121	A	G
SEQ ID NO:2616	SsSNP2006_2635	121	A	G
SEQ ID NO:2617	SsSNP2006_2636	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2618	SsSNP2006_2637	121	A	C
SEQ ID NO:2619	SsSNP2006_2638	121	C	G
SEQ ID NO:2620	SsSNP2006_2639	121	A	G
SEQ ID NO:2621	SsSNP2006_2640	121	C	G
SEQ ID NO:2622	SsSNP2006_2641	121	A	G
SEQ ID NO:2623	SsSNP2006_2642	121	A	C
SEQ ID NO:2624	SsSNP2006_2643	66	A	G
SEQ ID NO:2625	SsSNP2006_2644	121	A	G
SEQ ID NO:2626	SsSNP2006_2645	121	A	C
SEQ ID NO:2627	SsSNP2006_2646	121	A	C
SEQ ID NO:2628	SsSNP2006_2647	121	A	T
SEQ ID NO:2629	SsSNP2006_2648	121	A	T
SEQ ID NO:2630	SsSNP2006_2649	118	C	G
SEQ ID NO:2631	SsSNP2006_2650	121	A	G
SEQ ID NO:2632	SsSNP2006_2651	121	A	G
SEQ ID NO:2633	SsSNP2006_2652	121	A	C
SEQ ID NO:2634	SsSNP2006_2653	121	A	G
SEQ ID NO:2635	SsSNP2006_2654	121	A	C
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SEQ ID NO:2637	SsSNP2006_2656	121	A	T
SEQ ID NO:2638	SsSNP2006_2657	121	A	T
SEQ ID NO:2639	SsSNP2006_2658	121	A	T
SEQ ID NO:2640	SsSNP2006_2659	121	A	G
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SEQ ID NO:2648	SsSNP2006_2667	121	A	C
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SEQ ID NO:2654	SsSNP2006_2673	121	A	G
SEQ ID NO:2655	SsSNP2006_2674	121	A	G
SEQ ID NO:2656	SsSNP2006_2675	121	A	G
SEQ ID NO:2657	SsSNP2006_2676	121	C	G
SEQ ID NO:2658	SsSNP2006_2677	121	A	G
SEQ ID NO:2659	SsSNP2006_2678	121	C	G
SEQ ID NO:2660	SsSNP2006_2679	121	A	G
SEQ ID NO:2661	SsSNP2006_2680	121	A	G
SEQ ID NO:2662	SsSNP2006_2681	121	A	G
SEQ ID NO:2663	SsSNP2006_2682	121	A	G
SEQ ID NO:2664	SsSNP2006_2683	121	A	G
SEQ ID NO:2665	SsSNP2006_2684	121	A	G
SEQ ID NO:2666	SsSNP2006_2685	121	A	C
SEQ ID NO:2667	SsSNP2006_2686	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2668	SsSNP2006_2687	121	A	G
SEQ ID NO:2669	SsSNP2006_2688	121	A	G
SEQ ID NO:2670	SsSNP2006_2689	121	A	C
SEQ ID NO:2671	SsSNP2006_2690	121	A	G
SEQ ID NO:2672	SsSNP2006_2691	121	A	G
SEQ ID NO:2673	SsSNP2006_2692	121	A	G
SEQ ID NO:2674	SsSNP2006_2693	121	A	G
SEQ ID NO:2675	SsSNP2006_2694	121	A	G
SEQ ID NO:2676	SsSNP2006_2695	121	A	G
SEQ ID NO:2677	SsSNP2006_2696	121	A	C
SEQ ID NO:2678	SsSNP2006_2697	121	A	G
SEQ ID NO:2679	SsSNP2006_2698	121	A	C
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SEQ ID NO:2682	SsSNP2006_2701	121	A	G
SEQ ID NO:2683	SsSNP2006_2702	121	A	G
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SEQ ID NO:2687	SsSNP2006_2706	121	A	G
SEQ ID NO:2688	SsSNP2006_2707	121	A	G
SEQ ID NO:2689	SsSNP2006_2708	121	A	G
SEQ ID NO:2690	SsSNP2006_2709	121	A	G
SEQ ID NO:2691	SsSNP2006_2710	121	A	C
SEQ ID NO:2692	SsSNP2006_2711	121	A	G
SEQ ID NO:2693	SsSNP2006_2712	121	C	G
SEQ ID NO:2694	SsSNP2006_2713	121	C	G
SEQ ID NO:2695	SsSNP2006_2714	121	A	C
SEQ ID NO:2696	SsSNP2006_2715	121	A	G
SEQ ID NO:2697	SsSNP2006_2716	121	A	C
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SEQ ID NO:2705	SsSNP2006_2724	121	A	T
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SEQ ID NO:2707	SsSNP2006_2726	121	A	G
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SEQ ID NO:2714	SsSNP2006_2733	121	A	G
SEQ ID NO:2715	SsSNP2006_2734	121	A	G
SEQ ID NO:2716	SsSNP2006_2735	121	A	G
SEQ ID NO:2717	SsSNP2006_2736	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2718	SsSNP2006_2737	121	A	T
SEQ ID NO:2719	SsSNP2006_2738	115	A	G
SEQ ID NO:2720	SsSNP2006_2739	121	A	C
SEQ ID NO:2721	SsSNP2006_2740	121	A	T
SEQ ID NO:2722	SsSNP2006_2741	121	A	G
SEQ ID NO:2723	SsSNP2006_2742	121	A	G
SEQ ID NO:2724	SsSNP2006_2743	121	A	G
SEQ ID NO:2725	SsSNP2006_2744	121	A	G
SEQ ID NO:2726	SsSNP2006_2745	121	A	G
SEQ ID NO:2727	SsSNP2006_2746	121	A	G
SEQ ID NO:2728	SsSNP2006_2747	121	A	T
SEQ ID NO:2729	SsSNP2006_2748	121	A	G
SEQ ID NO:2730	SsSNP2006_2749	121	A	G
SEQ ID NO:2731	SsSNP2006_2750	121	A	G
SEQ ID NO:2732	SsSNP2006_2751	121	A	G
SEQ ID NO:2733	SsSNP2006_2752	121	A	G
SEQ ID NO:2734	SsSNP2006_2753	121	C	G
SEQ ID NO:2735	SsSNP2006_2754	121	A	G
SEQ ID NO:2736	SsSNP2006_2755	121	A	G
SEQ ID NO:2737	SsSNP2006_2756	121	A	G
SEQ ID NO:2738	SsSNP2006_2757	121	A	G
SEQ ID NO:2739	SsSNP2006_2758	121	A	G
SEQ ID NO:2740	SsSNP2006_2759	121	A	G
SEQ ID NO:2741	SsSNP2006_2760	121	A	C
SEQ ID NO:2742	SsSNP2006_2761	121	A	G
SEQ ID NO:2743	SsSNP2006_2762	121	A	T
SEQ ID NO:2744	SsSNP2006_2763	121	A	G
SEQ ID NO:2745	SsSNP2006_2764	121	A	G
SEQ ID NO:2746	SsSNP2006_2765	121	A	G
SEQ ID NO:2747	SsSNP2006_2766	121	A	G
SEQ ID NO:2748	SsSNP2006_2767	121	A	G
SEQ ID NO:2749	SsSNP2006_2768	121	A	G
SEQ ID NO:2750	SsSNP2006_2769	121	A	C
SEQ ID NO:2751	SsSNP2006_2770	121	C	G
SEQ ID NO:2752	SsSNP2006_2771	121	A	C
SEQ ID NO:2753	SsSNP2006_2772	121	A	G
SEQ ID NO:2754	SsSNP2006_2773	121	A	G
SEQ ID NO:2755	SsSNP2006_2774	121	A	T
SEQ ID NO:2756	SsSNP2006_2775	121	C	G
SEQ ID NO:2757	SsSNP2006_2776	121	A	G
SEQ ID NO:2758	SsSNP2006_2777	121	A	G
SEQ ID NO:2759	SsSNP2006_2778	121	A	G
SEQ ID NO:2760	SsSNP2006_2779	121	A	G
SEQ ID NO:2761	SsSNP2006_2780	121	A	G
SEQ ID NO:2762	SsSNP2006_2781	117	A	C
SEQ ID NO:2763	SsSNP2006_2782	121	A	G
SEQ ID NO:2764	SsSNP2006_2783	121	A	G
SEQ ID NO:2765	SsSNP2006_2784	112	A	C
SEQ ID NO:2766	SsSNP2006_2785	121	A	G
SEQ ID NO:2767	SsSNP2006_2786	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2768	SsSNP2006_2787	121	A	G
SEQ ID NO:2769	SsSNP2006_2788	121	A	G
SEQ ID NO:2770	SsSNP2006_2789	121	A	G
SEQ ID NO:2771	SsSNP2006_2790	121	A	G
SEQ ID NO:2772	SsSNP2006_2791	121	A	G
SEQ ID NO:2773	SsSNP2006_2792	121	A	G
SEQ ID NO:2774	SsSNP2006_2793	121	A	G
SEQ ID NO:2775	SsSNP2006_2794	121	A	G
SEQ ID NO:2776	SsSNP2006_2795	121	C	G
SEQ ID NO:2777	SsSNP2006_2796	121	A	G
SEQ ID NO:2778	SsSNP2006_2797	121	A	G
SEQ ID NO:2779	SsSNP2006_2798	121	A	G
SEQ ID NO:2780	SsSNP2006_2799	121	A	G
SEQ ID NO:2781	SsSNP2006_2800	121	A	G
SEQ ID NO:2782	SsSNP2006_2801	121	A	T
SEQ ID NO:2783	SsSNP2006_2802	121	A	G
SEQ ID NO:2784	SsSNP2006_2803	121	A	C
SEQ ID NO:2785	SsSNP2006_2804	121	A	C
SEQ ID NO:2786	SsSNP2006_2805	121	A	G
SEQ ID NO:2787	SsSNP2006_2806	121	A	G
SEQ ID NO:2788	SsSNP2006_2807	121	A	G
SEQ ID NO:2789	SsSNP2006_2808	121	A	T
SEQ ID NO:2790	SsSNP2006_2809	121	A	G
SEQ ID NO:2791	SsSNP2006_2810	121	C	G
SEQ ID NO:2792	SsSNP2006_2811	121	A	G
SEQ ID NO:2793	SsSNP2006_2812	121	A	G
SEQ ID NO:2794	SsSNP2006_2813	121	A	G
SEQ ID NO:2795	SsSNP2006_2814	121	A	G
SEQ ID NO:2796	SsSNP2006_2815	121	A	G
SEQ ID NO:2797	SsSNP2006_2816	121	A	G
SEQ ID NO:2798	SsSNP2006_2817	121	A	T
SEQ ID NO:2799	SsSNP2006_2818	121	A	G
SEQ ID NO:2800	SsSNP2006_2819	121	A	G
SEQ ID NO:2801	SsSNP2006_2820	121	A	G
SEQ ID NO:2802	SsSNP2006_2821	121	C	G
SEQ ID NO:2803	SsSNP2006_2822	121	A	G
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SEQ ID NO:2805	SsSNP2006_2824	121	A	G
SEQ ID NO:2806	SsSNP2006_2825	121	A	G
SEQ ID NO:2807	SsSNP2006_2826	121	A	G
SEQ ID NO:2808	SsSNP2006_2827	121	A	G
SEQ ID NO:2809	SsSNP2006_2828	121	A	G
SEQ ID NO:2810	SsSNP2006_2829	121	A	G
SEQ ID NO:2811	SsSNP2006_2830	121	A	G
SEQ ID NO:2812	SsSNP2006_2831	121	A	G
SEQ ID NO:2813	SsSNP2006_2832	121	A	G
SEQ ID NO:2814	SsSNP2006_2833	121	A	G
SEQ ID NO:2815	SsSNP2006_2834	121	A	G
SEQ ID NO:2816	SsSNP2006_2835	121	A	G
SEQ ID NO:2817	SsSNP2006_2836	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2818	SsSNP2006_2837	121	A	G
SEQ ID NO:2819	SsSNP2006_2838	121	A	G
SEQ ID NO:2820	SsSNP2006_2839	121	A	G
SEQ ID NO:2821	SsSNP2006_2840	121	A	G
SEQ ID NO:2822	SsSNP2006_2841	121	A	C
SEQ ID NO:2823	SsSNP2006_2842	121	A	T
SEQ ID NO:2824	SsSNP2006_2843	121	A	G
SEQ ID NO:2825	SsSNP2006_2844	121	A	G
SEQ ID NO:2826	SsSNP2006_2845	121	A	G
SEQ ID NO:2827	SsSNP2006_2846	121	A	G
SEQ ID NO:2828	SsSNP2006_2847	121	A	G
SEQ ID NO:2829	SsSNP2006_2848	121	A	G
SEQ ID NO:2830	SsSNP2006_2849	121	A	G
SEQ ID NO:2831	SsSNP2006_2850	105	A	G
SEQ ID NO:2832	SsSNP2006_2851	121	A	G
SEQ ID NO:2833	SsSNP2006_2852	121	A	G
SEQ ID NO:2834	SsSNP2006_2853	121	A	C
SEQ ID NO:2835	SsSNP2006_2854	121	A	G
SEQ ID NO:2836	SsSNP2006_2855	121	A	G
SEQ ID NO:2837	SsSNP2006_2856	121	A	G
SEQ ID NO:2838	SsSNP2006_2857	121	A	G
SEQ ID NO:2839	SsSNP2006_2858	121	C	G
SEQ ID NO:2840	SsSNP2006_2859	121	A	G
SEQ ID NO:2841	SsSNP2006_2860	121	A	T
SEQ ID NO:2842	SsSNP2006_2861	121	A	C
SEQ ID NO:2843	SsSNP2006_2862	121	A	G
SEQ ID NO:2844	SsSNP2006_2863	121	A	C
SEQ ID NO:2845	SsSNP2006_2864	121	A	G
SEQ ID NO:2846	SsSNP2006_2865	121	A	G
SEQ ID NO:2847	SsSNP2006_2866	121	A	G
SEQ ID NO:2848	SsSNP2006_2867	121	A	G
SEQ ID NO:2849	SsSNP2006_2868	121	A	G
SEQ ID NO:2850	SsSNP2006_2869	121	A	G
SEQ ID NO:2851	SsSNP2006_2870	121	A	C
SEQ ID NO:2852	SsSNP2006_2871	121	A	G
SEQ ID NO:2853	SsSNP2006_2872	121	A	G
SEQ ID NO:2854	SsSNP2006_2873	121	A	C
SEQ ID NO:2855	SsSNP2006_2874	121	A	G
SEQ ID NO:2856	SsSNP2006_2875	121	A	G
SEQ ID NO:2857	SsSNP2006_2876	121	A	G
SEQ ID NO:2858	SsSNP2006_2877	121	A	G
SEQ ID NO:2859	SsSNP2006_2878	121	A	G
SEQ ID NO:2860	SsSNP2006_2879	121	A	G
SEQ ID NO:2861	SsSNP2006_2880	121	A	G
SEQ ID NO:2862	SsSNP2006_2881	121	A	G
SEQ ID NO:2863	SsSNP2006_2882	121	A	G
SEQ ID NO:2864	SsSNP2006_2883	121	A	G
SEQ ID NO:2865	SsSNP2006_2884	121	A	G
SEQ ID NO:2866	SsSNP2006_2885	121	A	G
SEQ ID NO:2867	SsSNP2006_2886	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2868	SsSNP2006_2887	121	C	G
SEQ ID NO:2869	SsSNP2006_2888	121	A	G
SEQ ID NO:2870	SsSNP2006_2889	121	A	G
SEQ ID NO:2871	SsSNP2006_2890	121	A	G
SEQ ID NO:2872	SsSNP2006_2891	121	A	C
SEQ ID NO:2873	SsSNP2006_2892	121	A	G
SEQ ID NO:2874	SsSNP2006_2893	121	A	G
SEQ ID NO:2875	SsSNP2006_2894	121	A	T
SEQ ID NO:2876	SsSNP2006_2895	121	A	T
SEQ ID NO:2877	SsSNP2006_2896	121	A	G
SEQ ID NO:2878	SsSNP2006_2897	121	A	G
SEQ ID NO:2879	SsSNP2006_2898	121	A	G
SEQ ID NO:2880	SsSNP2006_2899	121	A	C
SEQ ID NO:2881	SsSNP2006_2900	121	A	T
SEQ ID NO:2882	SsSNP2006_2901	121	A	C
SEQ ID NO:2883	SsSNP2006_2902	121	A	G
SEQ ID NO:2884	SsSNP2006_2903	121	C	G
SEQ ID NO:2885	SsSNP2006_2904	121	A	G
SEQ ID NO:2886	SsSNP2006_2905	121	A	G
SEQ ID NO:2887	SsSNP2006_2906	121	A	G
SEQ ID NO:2888	SsSNP2006_2907	121	A	G
SEQ ID NO:2889	SsSNP2006_2908	121	A	G
SEQ ID NO:2890	SsSNP2006_2909	121	A	G
SEQ ID NO:2891	SsSNP2006_2910	121	C	G
SEQ ID NO:2892	SsSNP2006_2911	121	A	C
SEQ ID NO:2893	SsSNP2006_2912	121	A	G
SEQ ID NO:2894	SsSNP2006_2913	121	A	G
SEQ ID NO:2895	SsSNP2006_2914	121	A	G
SEQ ID NO:2896	SsSNP2006_2915	121	A	C
SEQ ID NO:2897	SsSNP2006_2916	121	A	T
SEQ ID NO:2898	SsSNP2006_2917	121	A	G
SEQ ID NO:2899	SsSNP2006_2918	121	A	G
SEQ ID NO:2900	SsSNP2006_2919	121	A	G
SEQ ID NO:2901	SsSNP2006_2920	121	A	C
SEQ ID NO:2902	SsSNP2006_2921	121	A	G
SEQ ID NO:2903	SsSNP2006_2922	121	A	G
SEQ ID NO:2904	SsSNP2006_2923	121	A	G
SEQ ID NO:2905	SsSNP2006_2924	121	A	T
SEQ ID NO:2906	SsSNP2006_2925	121	A	G
SEQ ID NO:2907	SsSNP2006_2926	121	A	G
SEQ ID NO:2908	SsSNP2006_2927	121	A	C
SEQ ID NO:2909	SsSNP2006_2928	121	A	G
SEQ ID NO:2910	SsSNP2006_2929	121	A	G
SEQ ID NO:2911	SsSNP2006_2930	121	A	G
SEQ ID NO:2912	SsSNP2006_2931	121	A	G
SEQ ID NO:2913	SsSNP2006_2932	121	A	G
SEQ ID NO:2914	SsSNP2006_2933	121	A	G
SEQ ID NO:2915	SsSNP2006_2934	121	A	G
SEQ ID NO:2916	SsSNP2006_2935	121	C	G
SEQ ID NO:2917	SsSNP2006_2936	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2918	SsSNP2006_2937	121	A	G
SEQ ID NO:2919	SsSNP2006_2938	121	A	G
SEQ ID NO:2920	SsSNP2006_2939	121	A	G
SEQ ID NO:2921	SsSNP2006_2940	121	A	G
SEQ ID NO:2922	SsSNP2006_2941	121	A	G
SEQ ID NO:2923	SsSNP2006_2942	121	A	C
SEQ ID NO:2924	SsSNP2006_2943	121	A	G
SEQ ID NO:2925	SsSNP2006_2944	121	A	G
SEQ ID NO:2926	SsSNP2006_2945	121	A	G
SEQ ID NO:2927	SsSNP2006_2946	121	A	G
SEQ ID NO:2928	SsSNP2006_2947	121	A	G
SEQ ID NO:2929	SsSNP2006_2948	121	A	G
SEQ ID NO:2930	SsSNP2006_2949	121	A	C
SEQ ID NO:2931	SsSNP2006_2950	121	A	G
SEQ ID NO:2932	SsSNP2006_2951	121	A	G
SEQ ID NO:2933	SsSNP2006_2952	121	A	G
SEQ ID NO:2934	SsSNP2006_2953	121	A	G
SEQ ID NO:2935	SsSNP2006_2954	121	A	G
SEQ ID NO:2936	SsSNP2006_2955	121	A	G
SEQ ID NO:2937	SsSNP2006_2956	121	A	G
SEQ ID NO:2938	SsSNP2006_2957	121	A	G
SEQ ID NO:2939	SsSNP2006_2958	121	A	G
SEQ ID NO:2940	SsSNP2006_2959	121	A	G
SEQ ID NO:2941	SsSNP2006_2960	121	C	G
SEQ ID NO:2942	SsSNP2006_2961	121	A	G
SEQ ID NO:2943	SsSNP2006_2962	121	A	G
SEQ ID NO:2944	SsSNP2006_2963	121	A	C
SEQ ID NO:2945	SsSNP2006_2964	121	A	G
SEQ ID NO:2946	SsSNP2006_2965	121	A	G
SEQ ID NO:2947	SsSNP2006_2966	121	C	G
SEQ ID NO:2948	SsSNP2006_2967	121	A	C
SEQ ID NO:2949	SsSNP2006_2968	121	C	G
SEQ ID NO:2950	SsSNP2006_2969	121	A	G
SEQ ID NO:2951	SsSNP2006_2970	121	A	G
SEQ ID NO:2952	SsSNP2006_2971	121	A	G
SEQ ID NO:2953	SsSNP2006_2972	121	A	G
SEQ ID NO:2954	SsSNP2006_2973	121	A	G
SEQ ID NO:2955	SsSNP2006_2974	121	A	G
SEQ ID NO:2956	SsSNP2006_2975	121	A	T
SEQ ID NO:2957	SsSNP2006_2976	121	A	G
SEQ ID NO:2958	SsSNP2006_2977	121	A	G
SEQ ID NO:2959	SsSNP2006_2978	121	A	G
SEQ ID NO:2960	SsSNP2006_2979	121	A	G
SEQ ID NO:2961	SsSNP2006_2980	99	A	G
SEQ ID NO:2962	SsSNP2006_2981	121	A	G
SEQ ID NO:2963	SsSNP2006_2982	121	A	T
SEQ ID NO:2964	SsSNP2006_2983	121	A	C
SEQ ID NO:2965	SsSNP2006_2984	121	A	G
SEQ ID NO:2966	SsSNP2006_2985	121	A	C
SEQ ID NO:2967	SsSNP2006_2986	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:2968	SsSNP2006_2987	121	A	G
SEQ ID NO:2969	SsSNP2006_2988	121	A	C
SEQ ID NO:2970	SsSNP2006_2989	121	A	G
SEQ ID NO:2971	SsSNP2006_2990	121	A	G
SEQ ID NO:2972	SsSNP2006_2991	121	A	G
SEQ ID NO:2973	SsSNP2006_2992	121	A	G
SEQ ID NO:2974	SsSNP2006_2993	121	A	G
SEQ ID NO:2975	SsSNP2006_2994	121	A	G
SEQ ID NO:2976	SsSNP2006_2995	121	A	G
SEQ ID NO:2977	SsSNP2006_2996	121	A	G
SEQ ID NO:2978	SsSNP2006_2997	121	A	G
SEQ ID NO:2979	SsSNP2006_2998	121	A	G
SEQ ID NO:2980	SsSNP2006_2999	121	A	G
SEQ ID NO:2981	SsSNP2006_3000	121	A	T
SEQ ID NO:2982	SsSNP2006_3001	121	A	G
SEQ ID NO:2983	SsSNP2006_3002	121	A	G
SEQ ID NO:2984	SsSNP2006_3003	121	A	G
SEQ ID NO:2985	SsSNP2006_3004	121	A	G
SEQ ID NO:2986	SsSNP2006_3005	121	A	G
SEQ ID NO:2987	SsSNP2006_3006	121	A	C
SEQ ID NO:2988	SsSNP2006_3007	121	A	G
SEQ ID NO:2989	SsSNP2006_3008	121	A	G
SEQ ID NO:2990	SsSNP2006_3009	121	A	G
SEQ ID NO:2991	SsSNP2006_3010	121	A	C
SEQ ID NO:2992	SsSNP2006_3011	121	A	G
SEQ ID NO:2993	SsSNP2006_3012	121	A	G
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SEQ ID NO:2995	SsSNP2006_3014	121	A	G
SEQ ID NO:2996	SsSNP2006_3015	121	A	G
SEQ ID NO:2997	SsSNP2006_3016	121	A	G
SEQ ID NO:2998	SsSNP2006_3017	121	A	C
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SEQ ID NO:3005	SsSNP2006_3024	121	A	G
SEQ ID NO:3006	SsSNP2006_3025	121	A	G
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SEQ ID NO:3008	SsSNP2006_3027	121	A	G
SEQ ID NO:3009	SsSNP2006_3028	121	A	G
SEQ ID NO:3010	SsSNP2006_3029	121	A	G
SEQ ID NO:3011	SsSNP2006_3030	121	A	G
SEQ ID NO:3012	SsSNP2006_3031	121	A	G
SEQ ID NO:3013	SsSNP2006_3032	121	A	G
SEQ ID NO:3014	SsSNP2006_3033	121	A	G
SEQ ID NO:3015	SsSNP2006_3034	121	A	G
SEQ ID NO:3016	SsSNP2006_3035	121	A	G
SEQ ID NO:3017	SsSNP2006_3036	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3018	SsSNP2006_3037	121	A	G
SEQ ID NO:3019	SsSNP2006_3038	121	A	G
SEQ ID NO:3020	SsSNP2006_3039	121	A	T
SEQ ID NO:3021	SsSNP2006_3040	121	A	G
SEQ ID NO:3022	SsSNP2006_3041	121	A	C
SEQ ID NO:3023	SsSNP2006_3042	121	A	T
SEQ ID NO:3024	SsSNP2006_3043	121	A	C
SEQ ID NO:3025	SsSNP2006_3044	121	C	G
SEQ ID NO:3026	SsSNP2006_3045	121	A	G
SEQ ID NO:3027	SsSNP2006_3046	121	A	G
SEQ ID NO:3028	SsSNP2006_3047	121	C	G
SEQ ID NO:3029	SsSNP2006_3048	121	C	G
SEQ ID NO:3030	SsSNP2006_3049	121	A	G
SEQ ID NO:3031	SsSNP2006_3050	121	A	T
SEQ ID NO:3032	SsSNP2006_3051	121	A	T
SEQ ID NO:3033	SsSNP2006_3052	121	A	G
SEQ ID NO:3034	SsSNP2006_3053	121	A	G
SEQ ID NO:3035	SsSNP2006_3054	121	A	C
SEQ ID NO:3036	SsSNP2006_3055	121	A	C
SEQ ID NO:3037	SsSNP2006_3056	121	A	G
SEQ ID NO:3038	SsSNP2006_3057	121	A	G
SEQ ID NO:3039	SsSNP2006_3058	121	A	G
SEQ ID NO:3040	SsSNP2006_3059	121	A	G
SEQ ID NO:3041	SsSNP2006_3060	121	A	G
SEQ ID NO:3042	SsSNP2006_3061	121	A	G
SEQ ID NO:3043	SsSNP2006_3062	121	A	G
SEQ ID NO:3044	SsSNP2006_3063	121	A	T
SEQ ID NO:3045	SsSNP2006_3064	121	A	G
SEQ ID NO:3046	SsSNP2006_3065	121	A	G
SEQ ID NO:3047	SsSNP2006_3066	121	A	G
SEQ ID NO:3048	SsSNP2006_3067	121	A	G
SEQ ID NO:3049	SsSNP2006_3068	121	A	G
SEQ ID NO:3050	SsSNP2006_3069	121	A	G
SEQ ID NO:3051	SsSNP2006_3070	121	A	G
SEQ ID NO:3052	SsSNP2006_3071	121	A	G
SEQ ID NO:3053	SsSNP2006_3072	121	A	C
SEQ ID NO:3054	SsSNP2006_3073	121	A	G
SEQ ID NO:3055	SsSNP2006_3074	121	A	G
SEQ ID NO:3056	SsSNP2006_3075	121	A	G
SEQ ID NO:3057	SsSNP2006_3076	121	A	G
SEQ ID NO:3058	SsSNP2006_3077	121	A	G
SEQ ID NO:3059	SsSNP2006_3078	121	A	G
SEQ ID NO:3060	SsSNP2006_3079	121	C	G
SEQ ID NO:3061	SsSNP2006_3080	121	A	G
SEQ ID NO:3062	SsSNP2006_3081	121	A	C
SEQ ID NO:3063	SsSNP2006_3082	121	A	C
SEQ ID NO:3064	SsSNP2006_3083	121	A	G
SEQ ID NO:3065	SsSNP2006_3084	121	A	G
SEQ ID NO:3066	SsSNP2006_3085	121	A	C
SEQ ID NO:3067	SsSNP2006_3086	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3068	SsSNP2006_3087	121	A	C
SEQ ID NO:3069	SsSNP2006_3088	121	A	G
SEQ ID NO:3070	SsSNP2006_3089	121	A	G
SEQ ID NO:3071	SsSNP2006_3090	121	A	G
SEQ ID NO:3072	SsSNP2006_3091	121	A	G
SEQ ID NO:3073	SsSNP2006_3092	121	A	G
SEQ ID NO:3074	SsSNP2006_3093	121	A	G
SEQ ID NO:3075	SsSNP2006_3094	121	A	G
SEQ ID NO:3076	SsSNP2006_3095	121	A	G
SEQ ID NO:3077	SsSNP2006_3096	121	A	G
SEQ ID NO:3078	SsSNP2006_3097	121	C	G
SEQ ID NO:3079	SsSNP2006_3098	121	A	G
SEQ ID NO:3080	SsSNP2006_3099	121	A	C
SEQ ID NO:3081	SsSNP2006_3100	121	A	G
SEQ ID NO:3082	SsSNP2006_3101	121	A	T
SEQ ID NO:3083	SsSNP2006_3102	121	A	T
SEQ ID NO:3084	SsSNP2006_3103	121	A	T
SEQ ID NO:3085	SsSNP2006_3104	121	A	G
SEQ ID NO:3086	SsSNP2006_3105	121	A	G
SEQ ID NO:3087	SsSNP2006_3106	121	A	C
SEQ ID NO:3088	SsSNP2006_3107	121	C	G
SEQ ID NO:3089	SsSNP2006_3108	121	A	G
SEQ ID NO:3090	SsSNP2006_3109	121	A	C
SEQ ID NO:3091	SsSNP2006_3110	121	A	C
SEQ ID NO:3092	SsSNP2006_3111	121	A	C
SEQ ID NO:3093	SsSNP2006_3112	121	A	G
SEQ ID NO:3094	SsSNP2006_3113	121	A	G
SEQ ID NO:3095	SsSNP2006_3114	121	A	C
SEQ ID NO:3096	SsSNP2006_3115	121	A	G
SEQ ID NO:3097	SsSNP2006_3116	121	A	G
SEQ ID NO:3098	SsSNP2006_3117	121	A	G
SEQ ID NO:3099	SsSNP2006_3118	121	A	G
SEQ ID NO:3100	SsSNP2006_3119	121	A	C
SEQ ID NO:3101	SsSNP2006_3120	121	A	G
SEQ ID NO:3102	SsSNP2006_3121	121	A	G
SEQ ID NO:3103	SsSNP2006_3122	121	A	G
SEQ ID NO:3104	SsSNP2006_3123	121	A	G
SEQ ID NO:3105	SsSNP2006_3124	121	A	G
SEQ ID NO:3106	SsSNP2006_3125	121	A	C
SEQ ID NO:3107	SsSNP2006_3126	121	A	C
SEQ ID NO:3108	SsSNP2006_3127	121	A	G
SEQ ID NO:3109	SsSNP2006_3128	121	A	C
SEQ ID NO:3110	SsSNP2006_3129	121	A	G
SEQ ID NO:3111	SsSNP2006_3130	121	A	C
SEQ ID NO:3112	SsSNP2006_3131	121	A	G
SEQ ID NO:3113	SsSNP2006_3132	121	A	G
SEQ ID NO:3114	SsSNP2006_3133	121	A	G
SEQ ID NO:3115	SsSNP2006_3134	121	A	G
SEQ ID NO:3116	SsSNP2006_3135	121	A	G
SEQ ID NO:3117	SsSNP2006_3136	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3118	SsSNP2006_3137	121	A	G
SEQ ID NO:3119	SsSNP2006_3138	121	C	G
SEQ ID NO:3120	SsSNP2006_3139	121	A	G
SEQ ID NO:3121	SsSNP2006_3140	121	A	G
SEQ ID NO:3122	SsSNP2006_3141	121	A	G
SEQ ID NO:3123	SsSNP2006_3142	121	A	G
SEQ ID NO:3124	SsSNP2006_3143	121	A	G
SEQ ID NO:3125	SsSNP2006_3144	121	A	G
SEQ ID NO:3126	SsSNP2006_3145	121	A	G
SEQ ID NO:3127	SsSNP2006_3146	121	A	G
SEQ ID NO:3128	SsSNP2006_3147	121	A	C
SEQ ID NO:3129	SsSNP2006_3148	121	A	G
SEQ ID NO:3130	SsSNP2006_3149	121	A	G
SEQ ID NO:3131	SsSNP2006_3150	121	A	G
SEQ ID NO:3132	SsSNP2006_3151	121	A	G
SEQ ID NO:3133	SsSNP2006_3152	121	A	G
SEQ ID NO:3134	SsSNP2006_3153	121	A	G
SEQ ID NO:3135	SsSNP2006_3154	121	A	G
SEQ ID NO:3136	SsSNP2006_3155	121	A	G
SEQ ID NO:3137	SsSNP2006_3156	121	A	G
SEQ ID NO:3138	SsSNP2006_3157	121	A	G
SEQ ID NO:3139	SsSNP2006_3158	121	C	G
SEQ ID NO:3140	SsSNP2006_3159	121	A	G
SEQ ID NO:3141	SsSNP2006_3160	121	A	G
SEQ ID NO:3142	SsSNP2006_3161	121	A	G
SEQ ID NO:3143	SsSNP2006_3162	121	A	T
SEQ ID NO:3144	SsSNP2006_3163	121	A	G
SEQ ID NO:3145	SsSNP2006_3164	121	A	G
SEQ ID NO:3146	SsSNP2006_3165	121	A	C
SEQ ID NO:3147	SsSNP2006_3166	121	C	G
SEQ ID NO:3148	SsSNP2006_3167	121	A	G
SEQ ID NO:3149	SsSNP2006_3168	121	A	G
SEQ ID NO:3150	SsSNP2006_3169	121	A	G
SEQ ID NO:3151	SsSNP2006_3170	121	A	G
SEQ ID NO:3152	SsSNP2006_3171	121	A	C
SEQ ID NO:3153	SsSNP2006_3172	121	A	C
SEQ ID NO:3154	SsSNP2006_3173	121	A	G
SEQ ID NO:3155	SsSNP2006_3174	121	C	G
SEQ ID NO:3156	SsSNP2006_3175	121	A	T
SEQ ID NO:3157	SsSNP2006_3176	121	A	T
SEQ ID NO:3158	SsSNP2006_3177	121	A	G
SEQ ID NO:3159	SsSNP2006_3178	121	A	T
SEQ ID NO:3160	SsSNP2006_3179	121	C	G
SEQ ID NO:3161	SsSNP2006_3180	121	A	C
SEQ ID NO:3162	SsSNP2006_3181	121	A	G
SEQ ID NO:3163	SsSNP2006_3182	121	A	C
SEQ ID NO:3164	SsSNP2006_3183	121	A	T
SEQ ID NO:3165	SsSNP2006_3184	121	A	G
SEQ ID NO:3166	SsSNP2006_3185	121	A	G
SEQ ID NO:3167	SsSNP2006_3186	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3168	SsSNP2006_3187	121	A	G
SEQ ID NO:3169	SsSNP2006_3188	121	A	G
SEQ ID NO:3170	SsSNP2006_3189	121	A	T
SEQ ID NO:3171	SsSNP2006_3190	121	A	G
SEQ ID NO:3172	SsSNP2006_3191	121	A	G
SEQ ID NO:3173	SsSNP2006_3192	121	C	G
SEQ ID NO:3174	SsSNP2006_3193	121	A	G
SEQ ID NO:3175	SsSNP2006_3194	121	A	G
SEQ ID NO:3176	SsSNP2006_3195	121	A	G
SEQ ID NO:3177	SsSNP2006_3196	121	A	G
SEQ ID NO:3178	SsSNP2006_3197	121	A	G
SEQ ID NO:3179	SsSNP2006_3198	121	A	C
SEQ ID NO:3180	SsSNP2006_3199	121	A	G
SEQ ID NO:3181	SsSNP2006_3200	121	A	G
SEQ ID NO:3182	SsSNP2006_3201	121	A	G
SEQ ID NO:3183	SsSNP2006_3202	121	A	C
SEQ ID NO:3184	SsSNP2006_3203	121	A	G
SEQ ID NO:3185	SsSNP2006_3204	121	A	G
SEQ ID NO:3186	SsSNP2006_3205	121	A	C
SEQ ID NO:3187	SsSNP2006_3206	121	A	G
SEQ ID NO:3188	SsSNP2006_3207	121	A	C
SEQ ID NO:3189	SsSNP2006_3208	121	A	G
SEQ ID NO:3190	SsSNP2006_3209	121	A	C
SEQ ID NO:3191	SsSNP2006_3210	121	A	G
SEQ ID NO:3192	SsSNP2006_3211	121	A	G
SEQ ID NO:3193	SsSNP2006_3212	121	A	C
SEQ ID NO:3194	SsSNP2006_3213	121	A	G
SEQ ID NO:3195	SsSNP2006_3214	121	A	G
SEQ ID NO:3196	SsSNP2006_3215	121	A	G
SEQ ID NO:3197	SsSNP2006_3216	121	A	G
SEQ ID NO:3198	SsSNP2006_3217	121	C	G
SEQ ID NO:3199	SsSNP2006_3218	121	A	G
SEQ ID NO:3200	SsSNP2006_3219	121	A	G
SEQ ID NO:3201	SsSNP2006_3220	121	A	G
SEQ ID NO:3202	SsSNP2006_3221	121	A	G
SEQ ID NO:3203	SsSNP2006_3222	121	A	G
SEQ ID NO:3204	SsSNP2006_3223	121	C	G
SEQ ID NO:3205	SsSNP2006_3224	121	A	G
SEQ ID NO:3206	SsSNP2006_3225	121	A	T
SEQ ID NO:3207	SsSNP2006_3226	121	A	T
SEQ ID NO:3208	SsSNP2006_3227	121	A	C
SEQ ID NO:3209	SsSNP2006_3228	121	A	G
SEQ ID NO:3210	SsSNP2006_3229	121	A	G
SEQ ID NO:3211	SsSNP2006_3230	121	A	G
SEQ ID NO:3212	SsSNP2006_3231	121	A	C
SEQ ID NO:3213	SsSNP2006_3232	121	A	C
SEQ ID NO:3214	SsSNP2006_3233	121	A	G
SEQ ID NO:3215	SsSNP2006_3234	121	A	G
SEQ ID NO:3216	SsSNP2006_3235	121	A	G
SEQ ID NO:3217	SsSNP2006_3236	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3218	SsSNP2006_3237	121	A	G
SEQ ID NO:3219	SsSNP2006_3238	121	A	G
SEQ ID NO:3220	SsSNP2006_3239	121	A	C
SEQ ID NO:3221	SsSNP2006_3240	121	A	C
SEQ ID NO:3222	SsSNP2006_3241	121	A	C
SEQ ID NO:3223	SsSNP2006_3242	121	A	G
SEQ ID NO:3224	SsSNP2006_3243	121	A	T
SEQ ID NO:3225	SsSNP2006_3244	121	A	G
SEQ ID NO:3226	SsSNP2006_3245	121	A	G
SEQ ID NO:3227	SsSNP2006_3246	121	A	C
SEQ ID NO:3228	SsSNP2006_3247	121	A	G
SEQ ID NO:3229	SsSNP2006_3248	121	A	G
SEQ ID NO:3230	SsSNP2006_3249	121	A	G
SEQ ID NO:3231	SsSNP2006_3250	121	C	G
SEQ ID NO:3232	SsSNP2006_3251	121	A	G
SEQ ID NO:3233	SsSNP2006_3252	121	A	C
SEQ ID NO:3234	SsSNP2006_3253	121	A	G
SEQ ID NO:3235	SsSNP2006_3254	121	A	G
SEQ ID NO:3236	SsSNP2006_3255	121	A	C
SEQ ID NO:3237	SsSNP2006_3256	121	A	C
SEQ ID NO:3238	SsSNP2006_3257	121	A	G
SEQ ID NO:3239	SsSNP2006_3258	121	A	G
SEQ ID NO:3240	SsSNP2006_3259	121	A	G
SEQ ID NO:3241	SsSNP2006_3260	121	A	G
SEQ ID NO:3242	SsSNP2006_3261	121	C	G
SEQ ID NO:3243	SsSNP2006_3262	121	A	G
SEQ ID NO:3244	SsSNP2006_3263	121	A	T
SEQ ID NO:3245	SsSNP2006_3264	121	A	G
SEQ ID NO:3246	SsSNP2006_3265	121	A	G
SEQ ID NO:3247	SsSNP2006_3266	121	A	C
SEQ ID NO:3248	SsSNP2006_3267	121	A	G
SEQ ID NO:3249	SsSNP2006_3268	121	A	G
SEQ ID NO:3250	SsSNP2006_3269	121	A	G
SEQ ID NO:3251	SsSNP2006_3270	121	A	G
SEQ ID NO:3252	SsSNP2006_3271	121	A	T
SEQ ID NO:3253	SsSNP2006_3272	121	A	G
SEQ ID NO:3254	SsSNP2006_3273	121	A	G
SEQ ID NO:3255	SsSNP2006_3274	121	A	G
SEQ ID NO:3256	SsSNP2006_3275	121	A	G
SEQ ID NO:3257	SsSNP2006_3276	121	A	G
SEQ ID NO:3258	SsSNP2006_3277	121	A	C
SEQ ID NO:3259	SsSNP2006_3278	121	A	G
SEQ ID NO:3260	SsSNP2006_3279	121	C	G
SEQ ID NO:3261	SsSNP2006_3280	121	A	T
SEQ ID NO:3262	SsSNP2006_3281	121	A	C
SEQ ID NO:3263	SsSNP2006_3282	121	A	G
SEQ ID NO:3264	SsSNP2006_3283	121	A	C
SEQ ID NO:3265	SsSNP2006_3284	121	A	G
SEQ ID NO:3266	SsSNP2006_3285	121	A	G
SEQ ID NO:3267	SsSNP2006_3286	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3268	SsSNP2006_3287	121	A	G
SEQ ID NO:3269	SsSNP2006_3288	121	A	G
SEQ ID NO:3270	SsSNP2006_3289	121	A	G
SEQ ID NO:3271	SsSNP2006_3290	121	A	G
SEQ ID NO:3272	SsSNP2006_3291	121	A	T
SEQ ID NO:3273	SsSNP2006_3292	121	A	G
SEQ ID NO:3274	SsSNP2006_3293	121	A	T
SEQ ID NO:3275	SsSNP2006_3294	121	A	G
SEQ ID NO:3276	SsSNP2006_3295	121	A	G
SEQ ID NO:3277	SsSNP2006_3296	121	A	G
SEQ ID NO:3278	SsSNP2006_3297	121	A	T
SEQ ID NO:3279	SsSNP2006_3298	121	A	G
SEQ ID NO:3280	SsSNP2006_3299	121	A	G
SEQ ID NO:3281	SsSNP2006_3300	121	A	G
SEQ ID NO:3282	SsSNP2006_3301	121	A	G
SEQ ID NO:3283	SsSNP2006_3302	121	A	C
SEQ ID NO:3284	SsSNP2006_3303	121	A	C
SEQ ID NO:3285	SsSNP2006_3304	121	A	G
SEQ ID NO:3286	SsSNP2006_3305	121	A	G
SEQ ID NO:3287	SsSNP2006_3306	121	A	T
SEQ ID NO:3288	SsSNP2006_3307	121	A	G
SEQ ID NO:3289	SsSNP2006_3308	121	A	G
SEQ ID NO:3290	SsSNP2006_3309	121	A	G
SEQ ID NO:3291	SsSNP2006_3310	121	A	G
SEQ ID NO:3292	SsSNP2006_3311	121	A	G
SEQ ID NO:3293	SsSNP2006_3312	121	A	G
SEQ ID NO:3294	SsSNP2006_3313	121	A	G
SEQ ID NO:3295	SsSNP2006_3314	121	A	G
SEQ ID NO:3296	SsSNP2006_3315	121	A	T
SEQ ID NO:3297	SsSNP2006_3316	121	A	G
SEQ ID NO:3298	SsSNP2006_3317	121	A	G
SEQ ID NO:3299	SsSNP2006_3318	121	C	G
SEQ ID NO:3300	SsSNP2006_3319	121	A	G
SEQ ID NO:3301	SsSNP2006_3320	121	A	G
SEQ ID NO:3302	SsSNP2006_3321	121	A	C
SEQ ID NO:3303	SsSNP2006_3322	121	A	G
SEQ ID NO:3304	SsSNP2006_3323	121	A	G
SEQ ID NO:3305	SsSNP2006_3324	121	A	G
SEQ ID NO:3306	SsSNP2006_3325	121	A	G
SEQ ID NO:3307	SsSNP2006_3326	121	A	G
SEQ ID NO:3308	SsSNP2006_3327	121	A	G
SEQ ID NO:3309	SsSNP2006_3328	121	A	G
SEQ ID NO:3310	SsSNP2006_3329	121	A	G
SEQ ID NO:3311	SsSNP2006_3330	121	A	C
SEQ ID NO:3312	SsSNP2006_3331	121	A	G
SEQ ID NO:3313	SsSNP2006_3332	121	A	G
SEQ ID NO:3314	SsSNP2006_3333	121	A	C
SEQ ID NO:3315	SsSNP2006_3334	121	A	G
SEQ ID NO:3316	SsSNP2006_3335	121	A	G
SEQ ID NO:3317	SsSNP2006_3336	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3318	SsSNP2006_3337	121	C	G
SEQ ID NO:3319	SsSNP2006_3338	121	A	C
SEQ ID NO:3320	SsSNP2006_3339	121	A	G
SEQ ID NO:3321	SsSNP2006_3340	121	A	C
SEQ ID NO:3322	SsSNP2006_3341	121	A	G
SEQ ID NO:3323	SsSNP2006_3342	121	A	C
SEQ ID NO:3324	SsSNP2006_3343	121	A	G
SEQ ID NO:3325	SsSNP2006_3344	121	A	C
SEQ ID NO:3326	SsSNP2006_3345	121	A	G
SEQ ID NO:3327	SsSNP2006_3346	121	A	G
SEQ ID NO:3328	SsSNP2006_3347	121	C	G
SEQ ID NO:3329	SsSNP2006_3348	121	A	C
SEQ ID NO:3330	SsSNP2006_3349	121	A	G
SEQ ID NO:3331	SsSNP2006_3350	121	A	G
SEQ ID NO:3332	SsSNP2006_3351	121	A	G
SEQ ID NO:3333	SsSNP2006_3352	121	A	G
SEQ ID NO:3334	SsSNP2006_3353	121	A	G
SEQ ID NO:3335	SsSNP2006_3354	121	A	G
SEQ ID NO:3336	SsSNP2006_3355	121	A	G
SEQ ID NO:3337	SsSNP2006_3356	121	A	G
SEQ ID NO:3338	SsSNP2006_3357	121	A	G
SEQ ID NO:3339	SsSNP2006_3358	121	A	G
SEQ ID NO:3340	SsSNP2006_3359	121	A	G
SEQ ID NO:3341	SsSNP2006_3360	121	A	G
SEQ ID NO:3342	SsSNP2006_3361	121	A	G
SEQ ID NO:3343	SsSNP2006_3362	121	A	G
SEQ ID NO:3344	SsSNP2006_3363	121	A	G
SEQ ID NO:3345	SsSNP2006_3364	79	C	G
SEQ ID NO:3346	SsSNP2006_3365	121	A	G
SEQ ID NO:3347	SsSNP2006_3366	121	A	G
SEQ ID NO:3348	SsSNP2006_3367	121	A	G
SEQ ID NO:3349	SsSNP2006_3368	121	A	G
SEQ ID NO:3350	SsSNP2006_3369	121	A	G
SEQ ID NO:3351	SsSNP2006_3370	121	A	G
SEQ ID NO:3352	SsSNP2006_3371	121	A	G
SEQ ID NO:3353	SsSNP2006_3372	121	A	G
SEQ ID NO:3354	SsSNP2006_3373	121	A	G
SEQ ID NO:3355	SsSNP2006_3374	121	A	T
SEQ ID NO:3356	SsSNP2006_3375	121	A	G
SEQ ID NO:3357	SsSNP2006_3376	121	A	G
SEQ ID NO:3358	SsSNP2006_3377	122	A	G
SEQ ID NO:3359	SsSNP2006_3378	121	A	G
SEQ ID NO:3360	SsSNP2006_3379	121	A	G
SEQ ID NO:3361	SsSNP2006_3380	121	A	G
SEQ ID NO:3362	SsSNP2006_3381	121	A	C
SEQ ID NO:3363	SsSNP2006_3382	121	A	G
SEQ ID NO:3364	SsSNP2006_3383	121	C	G
SEQ ID NO:3365	SsSNP2006_3384	121	A	G
SEQ ID NO:3366	SsSNP2006_3385	121	A	G
SEQ ID NO:3367	SsSNP2006_3386	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3368	SsSNP2006_3387	121	A	G
SEQ ID NO:3369	SsSNP2006_3388	121	A	G
SEQ ID NO:3370	SsSNP2006_3389	121	A	G
SEQ ID NO:3371	SsSNP2006_3390	121	A	T
SEQ ID NO:3372	SsSNP2006_3391	121	A	G
SEQ ID NO:3373	SsSNP2006_3392	121	A	G
SEQ ID NO:3374	SsSNP2006_3393	121	A	G
SEQ ID NO:3375	SsSNP2006_3394	121	C	G
SEQ ID NO:3376	SsSNP2006_3395	121	A	G
SEQ ID NO:3377	SsSNP2006_3396	121	A	C
SEQ ID NO:3378	SsSNP2006_3397	121	A	G
SEQ ID NO:3379	SsSNP2006_3398	121	A	G
SEQ ID NO:3380	SsSNP2006_3399	121	A	C
SEQ ID NO:3381	SsSNP2006_3400	121	A	C
SEQ ID NO:3382	SsSNP2006_3401	121	A	G
SEQ ID NO:3383	SsSNP2006_3402	121	A	G
SEQ ID NO:3384	SsSNP2006_3403	121	A	G
SEQ ID NO:3385	SsSNP2006_3404	121	A	C
SEQ ID NO:3386	SsSNP2006_3405	121	A	G
SEQ ID NO:3387	SsSNP2006_3406	121	A	C
SEQ ID NO:3388	SsSNP2006_3407	121	A	G
SEQ ID NO:3389	SsSNP2006_3408	121	A	C
SEQ ID NO:3390	SsSNP2006_3409	121	C	G
SEQ ID NO:3391	SsSNP2006_3410	102	A	C
SEQ ID NO:3392	SsSNP2006_3411	121	A	G
SEQ ID NO:3393	SsSNP2006_3412	121	A	C
SEQ ID NO:3394	SsSNP2006_3413	121	A	G
SEQ ID NO:3395	SsSNP2006_3414	121	A	C
SEQ ID NO:3396	SsSNP2006_3415	121	C	G
SEQ ID NO:3397	SsSNP2006_3416	121	A	G
SEQ ID NO:3398	SsSNP2006_3417	121	A	G
SEQ ID NO:3399	SsSNP2006_3418	121	C	G
SEQ ID NO:3400	SsSNP2006_3419	121	A	G
SEQ ID NO:3401	SsSNP2006_3420	121	A	C
SEQ ID NO:3402	SsSNP2006_3421	121	A	G
SEQ ID NO:3403	SsSNP2006_3422	121	A	G
SEQ ID NO:3404	SsSNP2006_3423	121	A	G
SEQ ID NO:3405	SsSNP2006_3424	121	A	G
SEQ ID NO:3406	SsSNP2006_3425	121	A	G
SEQ ID NO:3407	SsSNP2006_3426	121	A	G
SEQ ID NO:3408	SsSNP2006_3427	121	A	G
SEQ ID NO:3409	SsSNP2006_3428	121	A	G
SEQ ID NO:3410	SsSNP2006_3429	121	A	G
SEQ ID NO:3411	SsSNP2006_3430	121	A	C
SEQ ID NO:3412	SsSNP2006_3431	121	A	C
SEQ ID NO:3413	SsSNP2006_3432	121	A	G
SEQ ID NO:3414	SsSNP2006_3433	121	A	G
SEQ ID NO:3415	SsSNP2006_3434	121	A	G
SEQ ID NO:3416	SsSNP2006_3435	121	A	G
SEQ ID NO:3417	SsSNP2006_3436	121	A	T

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3418	SsSNP2006_3437	121	A	C
SEQ ID NO:3419	SsSNP2006_3438	121	A	G
SEQ ID NO:3420	SsSNP2006_3439	121	A	G
SEQ ID NO:3421	SsSNP2006_3440	121	A	G
SEQ ID NO:3422	SsSNP2006_3441	121	A	G
SEQ ID NO:3423	SsSNP2006_3442	121	A	G
SEQ ID NO:3424	SsSNP2006_3443	121	A	G
SEQ ID NO:3425	SsSNP2006_3444	121	A	G
SEQ ID NO:3426	SsSNP2006_3445	121	A	C
SEQ ID NO:3427	SsSNP2006_3446	121	A	G
SEQ ID NO:3428	SsSNP2006_3447	121	A	G
SEQ ID NO:3429	SsSNP2006_3448	121	A	G
SEQ ID NO:3430	SsSNP2006_3449	121	A	C
SEQ ID NO:3431	SsSNP2006_3450	121	A	G
SEQ ID NO:3432	SsSNP2006_3451	121	A	G
SEQ ID NO:3433	SsSNP2006_3452	121	A	G
SEQ ID NO:3434	SsSNP2006_3453	121	A	T
SEQ ID NO:3435	SsSNP2006_3454	121	A	G
SEQ ID NO:3436	SsSNP2006_3455	121	A	G
SEQ ID NO:3437	SsSNP2006_3456	121	A	G
SEQ ID NO:3438	SsSNP2006_3457	121	A	G
SEQ ID NO:3439	SsSNP2006_3458	121	A	G
SEQ ID NO:3440	SsSNP2006_3459	121	A	G
SEQ ID NO:3441	SsSNP2006_3460	121	A	C
SEQ ID NO:3442	SsSNP2006_3461	121	A	G
SEQ ID NO:3443	SsSNP2006_3462	121	A	G
SEQ ID NO:3444	SsSNP2006_3463	121	A	G
SEQ ID NO:3445	SsSNP2006_3464	121	A	C
SEQ ID NO:3446	SsSNP2006_3465	121	A	C
SEQ ID NO:3447	SsSNP2006_3466	121	A	G
SEQ ID NO:3448	SsSNP2006_3467	121	A	G
SEQ ID NO:3449	SsSNP2006_3468	121	A	G
SEQ ID NO:3450	SsSNP2006_3469	121	A	G
SEQ ID NO:3451	SsSNP2006_3470	121	A	C
SEQ ID NO:3452	SsSNP2006_3471	121	A	C
SEQ ID NO:3453	SsSNP2006_3472	121	A	G
SEQ ID NO:3454	SsSNP2006_3473	121	A	T
SEQ ID NO:3455	SsSNP2006_3474	121	A	G
SEQ ID NO:3456	SsSNP2006_3475	121	A	C
SEQ ID NO:3457	SsSNP2006_3476	121	A	C
SEQ ID NO:3458	SsSNP2006_3477	121	A	G
SEQ ID NO:3459	SsSNP2006_3478	121	A	G
SEQ ID NO:3460	SsSNP2006_3479	121	A	G
SEQ ID NO:3461	SsSNP2006_3480	121	A	C
SEQ ID NO:3462	SsSNP2006_3481	121	A	G
SEQ ID NO:3463	SsSNP2006_3482	121	A	G
SEQ ID NO:3464	SsSNP2006_3483	121	A	C
SEQ ID NO:3465	SsSNP2006_3484	121	C	G
SEQ ID NO:3466	SsSNP2006_3485	121	A	G
SEQ ID NO:3467	SsSNP2006_3486	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3468	SsSNP2006_3487	121	A	G
SEQ ID NO:3469	SsSNP2006_3488	121	A	G
SEQ ID NO:3470	SsSNP2006_3489	121	A	G
SEQ ID NO:3471	SsSNP2006_3490	121	A	G
SEQ ID NO:3472	SsSNP2006_3491	121	A	G
SEQ ID NO:3473	SsSNP2006_3492	121	A	G
SEQ ID NO:3474	SsSNP2006_3493	121	A	G
SEQ ID NO:3475	SsSNP2006_3494	121	A	G
SEQ ID NO:3476	SsSNP2006_3495	121	A	G
SEQ ID NO:3477	SsSNP2006_3496	121	A	C
SEQ ID NO:3478	SsSNP2006_3497	121	A	G
SEQ ID NO:3479	SsSNP2006_3498	121	A	G
SEQ ID NO:3480	SsSNP2006_3499	121	A	G
SEQ ID NO:3481	SsSNP2006_3500	121	A	G
SEQ ID NO:3482	SsSNP2006_3501	121	A	C
SEQ ID NO:3483	SsSNP2006_3502	121	A	G
SEQ ID NO:3484	SsSNP2006_3503	121	A	C
SEQ ID NO:3485	SsSNP2006_3504	121	A	G
SEQ ID NO:3486	SsSNP2006_3505	121	A	T
SEQ ID NO:3487	SsSNP2006_3506	121	A	C
SEQ ID NO:3488	SsSNP2006_3507	121	A	C
SEQ ID NO:3489	SsSNP2006_3508	121	A	G
SEQ ID NO:3490	SsSNP2006_3509	121	A	G
SEQ ID NO:3491	SsSNP2006_3510	121	A	G
SEQ ID NO:3492	SsSNP2006_3511	121	A	C
SEQ ID NO:3493	SsSNP2006_3512	121	A	T
SEQ ID NO:3494	SsSNP2006_3513	121	A	G
SEQ ID NO:3495	SsSNP2006_3514	121	A	G
SEQ ID NO:3496	SsSNP2006_3515	30	A	G
SEQ ID NO:3497	SsSNP2006_3516	121	A	G
SEQ ID NO:3498	SsSNP2006_3517	121	A	G
SEQ ID NO:3499	SsSNP2006_3518	121	A	G
SEQ ID NO:3500	SsSNP2006_3519	121	C	G
SEQ ID NO:3501	SsSNP2006_3520	121	A	G
SEQ ID NO:3502	SsSNP2006_3521	121	A	C
SEQ ID NO:3503	SsSNP2006_3522	121	A	G
SEQ ID NO:3504	SsSNP2006_3523	121	A	C
SEQ ID NO:3505	SsSNP2006_3524	121	A	G
SEQ ID NO:3506	SsSNP2006_3525	121	A	G
SEQ ID NO:3507	SsSNP2006_3526	121	A	G
SEQ ID NO:3508	SsSNP2006_3527	121	A	G
SEQ ID NO:3509	SsSNP2006_3528	121	A	G
SEQ ID NO:3510	SsSNP2006_3529	121	A	G
SEQ ID NO:3511	SsSNP2006_3530	121	A	G
SEQ ID NO:3512	SsSNP2006_3531	121	A	G
SEQ ID NO:3513	SsSNP2006_3532	121	A	G
SEQ ID NO:3514	SsSNP2006_3533	121	A	G
SEQ ID NO:3515	SsSNP2006_3534	121	A	T
SEQ ID NO:3516	SsSNP2006_3535	106	A	G
SEQ ID NO:3517	SsSNP2006_3536	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3518	SsSNP2006_3537	121	A	G
SEQ ID NO:3519	SsSNP2006_3538	121	A	G
SEQ ID NO:3520	SsSNP2006_3539	121	A	G
SEQ ID NO:3521	SsSNP2006_3540	121	A	G
SEQ ID NO:3522	SsSNP2006_3541	121	A	G
SEQ ID NO:3523	SsSNP2006_3542	121	A	G
SEQ ID NO:3524	SsSNP2006_3543	121	A	G
SEQ ID NO:3525	SsSNP2006_3544	121	A	G
SEQ ID NO:3526	SsSNP2006_3545	121	A	G
SEQ ID NO:3527	SsSNP2006_3546	121	A	G
SEQ ID NO:3528	SsSNP2006_3547	121	A	G
SEQ ID NO:3529	SsSNP2006_3548	121	A	C
SEQ ID NO:3530	SsSNP2006_3549	121	A	C
SEQ ID NO:3531	SsSNP2006_3550	121	A	C
SEQ ID NO:3532	SsSNP2006_3551	121	A	G
SEQ ID NO:3533	SsSNP2006_3552	121	A	G
SEQ ID NO:3534	SsSNP2006_3553	121	A	G
SEQ ID NO:3535	SsSNP2006_3554	121	A	G
SEQ ID NO:3536	SsSNP2006_3555	121	A	G
SEQ ID NO:3537	SsSNP2006_3556	121	A	G
SEQ ID NO:3538	SsSNP2006_3557	121	A	C
SEQ ID NO:3539	SsSNP2006_3558	121	A	G
SEQ ID NO:3540	SsSNP2006_3559	121	A	G
SEQ ID NO:3541	SsSNP2006_3560	121	A	G
SEQ ID NO:3542	SsSNP2006_3561	121	A	G
SEQ ID NO:3543	SsSNP2006_3562	121	A	G
SEQ ID NO:3544	SsSNP2006_3563	121	A	G
SEQ ID NO:3545	SsSNP2006_3564	121	A	G
SEQ ID NO:3546	SsSNP2006_3565	121	A	G
SEQ ID NO:3547	SsSNP2006_3566	121	A	C
SEQ ID NO:3548	SsSNP2006_3567	121	A	C
SEQ ID NO:3549	SsSNP2006_3568	121	A	G
SEQ ID NO:3550	SsSNP2006_3569	121	A	G
SEQ ID NO:3551	SsSNP2006_3570	121	A	G
SEQ ID NO:3552	SsSNP2006_3571	121	A	G
SEQ ID NO:3553	SsSNP2006_3572	121	A	G
SEQ ID NO:3554	SsSNP2006_3573	121	A	C
SEQ ID NO:3555	SsSNP2006_3574	121	A	G
SEQ ID NO:3556	SsSNP2006_3575	121	A	C
SEQ ID NO:3557	SsSNP2006_3576	121	A	C
SEQ ID NO:3558	SsSNP2006_3577	121	A	G
SEQ ID NO:3559	SsSNP2006_3578	121	A	G
SEQ ID NO:3560	SsSNP2006_3579	121	A	G
SEQ ID NO:3561	SsSNP2006_3580	121	A	G
SEQ ID NO:3562	SsSNP2006_3581	121	A	C
SEQ ID NO:3563	SsSNP2006_3582	121	A	G
SEQ ID NO:3564	SsSNP2006_3583	121	A	G
SEQ ID NO:3565	SsSNP2006_3584	121	A	C
SEQ ID NO:3566	SsSNP2006_3585	121	A	G
SEQ ID NO:3567	SsSNP2006_3586	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3568	SsSNP2006_3587	121	A	G
SEQ ID NO:3569	SsSNP2006_3588	121	A	G
SEQ ID NO:3570	SsSNP2006_3589	121	A	G
SEQ ID NO:3571	SsSNP2006_3590	121	A	C
SEQ ID NO:3572	SsSNP2006_3591	121	A	C
SEQ ID NO:3573	SsSNP2006_3592	121	A	G
SEQ ID NO:3574	SsSNP2006_3593	121	A	G
SEQ ID NO:3575	SsSNP2006_3594	121	A	G
SEQ ID NO:3576	SsSNP2006_3595	121	A	G
SEQ ID NO:3577	SsSNP2006_3596	121	A	C
SEQ ID NO:3578	SsSNP2006_3597	121	A	G
SEQ ID NO:3579	SsSNP2006_3598	121	A	G
SEQ ID NO:3580	SsSNP2006_3599	121	A	G
SEQ ID NO:3581	SsSNP2006_3600	121	A	G
SEQ ID NO:3582	SsSNP2006_3601	121	A	G
SEQ ID NO:3583	SsSNP2006_3602	121	A	G
SEQ ID NO:3584	SsSNP2006_3603	121	A	G
SEQ ID NO:3585	SsSNP2006_3604	121	A	G
SEQ ID NO:3586	SsSNP2006_3605	121	A	G
SEQ ID NO:3587	SsSNP2006_3606	121	A	G
SEQ ID NO:3588	SsSNP2006_3607	121	A	G
SEQ ID NO:3589	SsSNP2006_3608	121	A	G
SEQ ID NO:3590	SsSNP2006_3609	121	A	G
SEQ ID NO:3591	SsSNP2006_3610	121	A	C
SEQ ID NO:3592	SsSNP2006_3611	121	A	G
SEQ ID NO:3593	SsSNP2006_3612	121	A	G
SEQ ID NO:3594	SsSNP2006_3613	121	A	G
SEQ ID NO:3595	SsSNP2006_3614	121	A	C
SEQ ID NO:3596	SsSNP2006_3615	121	A	G
SEQ ID NO:3597	SsSNP2006_3616	121	A	G
SEQ ID NO:3598	SsSNP2006_3617	121	A	G
SEQ ID NO:3599	SsSNP2006_3618	121	A	G
SEQ ID NO:3600	SsSNP2006_3619	121	A	G
SEQ ID NO:3601	SsSNP2006_3620	121	A	G
SEQ ID NO:3602	SsSNP2006_3621	121	A	G
SEQ ID NO:3603	SsSNP2006_3622	121	C	G
SEQ ID NO:3604	SsSNP2006_3623	121	A	T
SEQ ID NO:3605	SsSNP2006_3624	121	A	G
SEQ ID NO:3606	SsSNP2006_3625	121	A	G
SEQ ID NO:3607	SsSNP2006_3626	121	A	G
SEQ ID NO:3608	SsSNP2006_3627	121	A	T
SEQ ID NO:3609	SsSNP2006_3628	121	A	G
SEQ ID NO:3610	SsSNP2006_3629	121	A	C
SEQ ID NO:3611	SsSNP2006_3630	121	A	G
SEQ ID NO:3612	SsSNP2006_3631	121	A	G
SEQ ID NO:3613	SsSNP2006_3632	121	A	G
SEQ ID NO:3614	SsSNP2006_3633	121	A	G
SEQ ID NO:3615	SsSNP2006_3634	121	A	G
SEQ ID NO:3616	SsSNP2006_3635	121	A	G
SEQ ID NO:3617	SsSNP2006_3636	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3618	SsSNP2006_3637	121	A	G
SEQ ID NO:3619	SsSNP2006_3638	121	A	G
SEQ ID NO:3620	SsSNP2006_3639	121	A	G
SEQ ID NO:3621	SsSNP2006_3640	121	A	C
SEQ ID NO:3622	SsSNP2006_3641	121	A	G
SEQ ID NO:3623	SsSNP2006_3642	121	A	G
SEQ ID NO:3624	SsSNP2006_3643	121	A	G
SEQ ID NO:3625	SsSNP2006_3644	121	A	G
SEQ ID NO:3626	SsSNP2006_3645	121	A	C
SEQ ID NO:3627	SsSNP2006_3646	121	A	G
SEQ ID NO:3628	SsSNP2006_3647	121	A	G
SEQ ID NO:3629	SsSNP2006_3648	121	A	C
SEQ ID NO:3630	SsSNP2006_3649	121	A	C
SEQ ID NO:3631	SsSNP2006_3650	121	A	T
SEQ ID NO:3632	SsSNP2006_3651	121	A	G
SEQ ID NO:3633	SsSNP2006_3652	121	A	G
SEQ ID NO:3634	SsSNP2006_3653	117	C	G
SEQ ID NO:3635	SsSNP2006_3654	121	A	T
SEQ ID NO:3636	SsSNP2006_3655	121	A	G
SEQ ID NO:3637	SsSNP2006_3656	121	A	C
SEQ ID NO:3638	SsSNP2006_3657	121	A	G
SEQ ID NO:3639	SsSNP2006_3658	121	A	C
SEQ ID NO:3640	SsSNP2006_3659	121	A	G
SEQ ID NO:3641	SsSNP2006_3660	63	A	C
SEQ ID NO:3642	SsSNP2006_3661	121	A	G
SEQ ID NO:3643	SsSNP2006_3662	121	A	G
SEQ ID NO:3644	SsSNP2006_3663	121	A	G
SEQ ID NO:3645	SsSNP2006_3664	121	A	G
SEQ ID NO:3646	SsSNP2006_3665	121	A	G
SEQ ID NO:3647	SsSNP2006_3666	121	A	G
SEQ ID NO:3648	SsSNP2006_3667	121	A	G
SEQ ID NO:3649	SsSNP2006_3668	121	A	G
SEQ ID NO:3650	SsSNP2006_3669	121	A	T
SEQ ID NO:3651	SsSNP2006_3670	121	A	G
SEQ ID NO:3652	SsSNP2006_3671	121	A	G
SEQ ID NO:3653	SsSNP2006_3672	121	A	C
SEQ ID NO:3654	SsSNP2006_3673	121	A	T
SEQ ID NO:3655	SsSNP2006_3674	121	A	G
SEQ ID NO:3656	SsSNP2006_3675	121	A	G
SEQ ID NO:3657	SsSNP2006_3676	121	A	G
SEQ ID NO:3658	SsSNP2006_3677	121	A	G
SEQ ID NO:3659	SsSNP2006_3678	121	A	G
SEQ ID NO:3660	SsSNP2006_3679	121	A	G
SEQ ID NO:3661	SsSNP2006_3680	121	A	G
SEQ ID NO:3662	SsSNP2006_3681	121	A	T
SEQ ID NO:3663	SsSNP2006_3682	121	A	G
SEQ ID NO:3664	SsSNP2006_3683	121	A	G
SEQ ID NO:3665	SsSNP2006_3684	121	A	G
SEQ ID NO:3666	SsSNP2006_3685	121	A	G
SEQ ID NO:3667	SsSNP2006_3686	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3668	SsSNP2006_3687	121	A	G
SEQ ID NO:3669	SsSNP2006_3688	121	A	G
SEQ ID NO:3670	SsSNP2006_3689	121	A	G
SEQ ID NO:3671	SsSNP2006_3690	121	A	G
SEQ ID NO:3672	SsSNP2006_3691	121	A	G
SEQ ID NO:3673	SsSNP2006_3692	121	A	G
SEQ ID NO:3674	SsSNP2006_3693	121	A	G
SEQ ID NO:3675	SsSNP2006_3694	121	A	G
SEQ ID NO:3676	SsSNP2006_3695	121	A	G
SEQ ID NO:3677	SsSNP2006_3696	121	A	G
SEQ ID NO:3678	SsSNP2006_3697	121	A	G
SEQ ID NO:3679	SsSNP2006_3698	121	A	G
SEQ ID NO:3680	SsSNP2006_3699	121	A	G
SEQ ID NO:3681	SsSNP2006_3700	121	A	G
SEQ ID NO:3682	SsSNP2006_3701	121	A	G
SEQ ID NO:3683	SsSNP2006_3702	121	A	T
SEQ ID NO:3684	SsSNP2006_3703	121	A	G
SEQ ID NO:3685	SsSNP2006_3704	121	A	G
SEQ ID NO:3686	SsSNP2006_3705	121	A	G
SEQ ID NO:3687	SsSNP2006_3706	121	A	G
SEQ ID NO:3688	SsSNP2006_3707	121	A	C
SEQ ID NO:3689	SsSNP2006_3708	121	A	G
SEQ ID NO:3690	SsSNP2006_3709	121	A	T
SEQ ID NO:3691	SsSNP2006_3710	121	C	G
SEQ ID NO:3692	SsSNP2006_3711	121	A	G
SEQ ID NO:3693	SsSNP2006_3712	121	C	G
SEQ ID NO:3694	SsSNP2006_3713	121	A	G
SEQ ID NO:3695	SsSNP2006_3714	121	A	G
SEQ ID NO:3696	SsSNP2006_3715	121	A	G
SEQ ID NO:3697	SsSNP2006_3716	121	A	G
SEQ ID NO:3698	SsSNP2006_3717	44	A	G
SEQ ID NO:3699	SsSNP2006_3718	121	A	G
SEQ ID NO:3700	SsSNP2006_3719	121	A	C
SEQ ID NO:3701	SsSNP2006_3720	121	A	G
SEQ ID NO:3702	SsSNP2006_3721	121	A	C
SEQ ID NO:3703	SsSNP2006_3722	121	A	G
SEQ ID NO:3704	SsSNP2006_3723	121	A	G
SEQ ID NO:3705	SsSNP2006_3724	121	A	C
SEQ ID NO:3706	SsSNP2006_3725	121	A	G
SEQ ID NO:3707	SsSNP2006_3726	121	A	C
SEQ ID NO:3708	SsSNP2006_3727	121	A	G
SEQ ID NO:3709	SsSNP2006_3728	121	C	G
SEQ ID NO:3710	SsSNP2006_3729	121	A	C
SEQ ID NO:3711	SsSNP2006_3730	121	A	G
SEQ ID NO:3712	SsSNP2006_3731	121	A	G
SEQ ID NO:3713	SsSNP2006_3732	121	A	C
SEQ ID NO:3714	SsSNP2006_3733	121	A	G
SEQ ID NO:3715	SsSNP2006_3734	121	A	G
SEQ ID NO:3716	SsSNP2006_3735	121	A	G
SEQ ID NO:3717	SsSNP2006_3736	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3718	SsSNP2006_3737	121	A	G
SEQ ID NO:3719	SsSNP2006_3738	121	A	G
SEQ ID NO:3720	SsSNP2006_3739	121	A	G
SEQ ID NO:3721	SsSNP2006_3740	121	A	C
SEQ ID NO:3722	SsSNP2006_3741	121	C	G
SEQ ID NO:3723	SsSNP2006_3742	121	A	G
SEQ ID NO:3724	SsSNP2006_3743	121	A	G
SEQ ID NO:3725	SsSNP2006_3744	121	A	G
SEQ ID NO:3726	SsSNP2006_3745	121	A	G
SEQ ID NO:3727	SsSNP2006_3746	121	A	C
SEQ ID NO:3728	SsSNP2006_3747	121	A	G
SEQ ID NO:3729	SsSNP2006_3748	121	A	G
SEQ ID NO:3730	SsSNP2006_3749	121	A	C
SEQ ID NO:3731	SsSNP2006_3750	121	A	G
SEQ ID NO:3732	SsSNP2006_3751	121	A	G
SEQ ID NO:3733	SsSNP2006_3752	121	A	G
SEQ ID NO:3734	SsSNP2006_3753	121	A	G
SEQ ID NO:3735	SsSNP2006_3754	121	A	G
SEQ ID NO:3736	SsSNP2006_3755	121	A	G
SEQ ID NO:3737	SsSNP2006_3756	121	A	G
SEQ ID NO:3738	SsSNP2006_3757	121	A	G
SEQ ID NO:3739	SsSNP2006_3758	121	A	G
SEQ ID NO:3740	SsSNP2006_3759	121	A	G
SEQ ID NO:3741	SsSNP2006_3760	121	A	G
SEQ ID NO:3742	SsSNP2006_3761	121	A	G
SEQ ID NO:3743	SsSNP2006_3762	121	A	T
SEQ ID NO:3744	SsSNP2006_3763	121	A	G
SEQ ID NO:3745	SsSNP2006_3764	121	A	G
SEQ ID NO:3746	SsSNP2006_3765	121	A	G
SEQ ID NO:3747	SsSNP2006_3766	121	A	C
SEQ ID NO:3748	SsSNP2006_3767	121	A	G
SEQ ID NO:3749	SsSNP2006_3768	121	A	G
SEQ ID NO:3750	SsSNP2006_3769	103	A	G
SEQ ID NO:3751	SsSNP2006_3770	121	A	G
SEQ ID NO:3752	SsSNP2006_3771	121	A	G
SEQ ID NO:3753	SsSNP2006_3772	121	A	C
SEQ ID NO:3754	SsSNP2006_3773	121	A	G
SEQ ID NO:3755	SsSNP2006_3774	121	A	T
SEQ ID NO:3756	SsSNP2006_3775	121	A	G
SEQ ID NO:3757	SsSNP2006_3776	121	A	G
SEQ ID NO:3758	SsSNP2006_3777	121	A	G
SEQ ID NO:3759	SsSNP2006_3778	121	A	G
SEQ ID NO:3760	SsSNP2006_3779	121	A	G
SEQ ID NO:3761	SsSNP2006_3780	121	A	C
SEQ ID NO:3762	SsSNP2006_3781	121	A	G
SEQ ID NO:3763	SsSNP2006_3782	121	A	G
SEQ ID NO:3764	SsSNP2006_3783	121	A	G
SEQ ID NO:3765	SsSNP2006_3784	121	A	G
SEQ ID NO:3766	SsSNP2006_3785	121	A	G
SEQ ID NO:3767	SsSNP2006_3786	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3768	SsSNP2006_3787	121	C	G
SEQ ID NO:3769	SsSNP2006_3788	121	A	G
SEQ ID NO:3770	SsSNP2006_3789	121	A	C
SEQ ID NO:3771	SsSNP2006_3790	121	A	G
SEQ ID NO:3772	SsSNP2006_3791	121	A	G
SEQ ID NO:3773	SsSNP2006_3792	121	A	C
SEQ ID NO:3774	SsSNP2006_3793	121	A	G
SEQ ID NO:3775	SsSNP2006_3794	121	A	G
SEQ ID NO:3776	SsSNP2006_3795	121	A	G
SEQ ID NO:3777	SsSNP2006_3796	121	A	T
SEQ ID NO:3778	SsSNP2006_3797	121	A	G
SEQ ID NO:3779	SsSNP2006_3798	121	A	G
SEQ ID NO:3780	SsSNP2006_3799	121	A	G
SEQ ID NO:3781	SsSNP2006_3800	121	A	G
SEQ ID NO:3782	SsSNP2006_3801	121	A	G
SEQ ID NO:3783	SsSNP2006_3802	121	A	G
SEQ ID NO:3784	SsSNP2006_3803	121	A	G
SEQ ID NO:3785	SsSNP2006_3804	121	C	G
SEQ ID NO:3786	SsSNP2006_3805	121	A	G
SEQ ID NO:3787	SsSNP2006_3806	121	A	C
SEQ ID NO:3788	SsSNP2006_3807	121	A	C
SEQ ID NO:3789	SsSNP2006_3808	121	A	G
SEQ ID NO:3790	SsSNP2006_3809	121	A	G
SEQ ID NO:3791	SsSNP2006_3810	121	A	G
SEQ ID NO:3792	SsSNP2006_3811	121	A	G
SEQ ID NO:3793	SsSNP2006_3812	121	A	G
SEQ ID NO:3794	SsSNP2006_3813	121	A	T
SEQ ID NO:3795	SsSNP2006_3814	121	A	G
SEQ ID NO:3796	SsSNP2006_3815	121	A	G
SEQ ID NO:3797	SsSNP2006_3816	121	A	G
SEQ ID NO:3798	SsSNP2006_3817	121	A	G
SEQ ID NO:3799	SsSNP2006_3818	121	C	G
SEQ ID NO:3800	SsSNP2006_3819	121	A	C
SEQ ID NO:3801	SsSNP2006_3820	121	A	C
SEQ ID NO:3802	SsSNP2006_3821	121	A	G
SEQ ID NO:3803	SsSNP2006_3822	121	A	G
SEQ ID NO:3804	SsSNP2006_3823	121	A	T
SEQ ID NO:3805	SsSNP2006_3824	121	A	G
SEQ ID NO:3806	SsSNP2006_3825	121	A	C
SEQ ID NO:3807	SsSNP2006_3826	121	A	G
SEQ ID NO:3808	SsSNP2006_3827	121	A	G
SEQ ID NO:3809	SsSNP2006_3828	121	A	G
SEQ ID NO:3810	SsSNP2006_3829	121	A	G
SEQ ID NO:3811	SsSNP2006_3830	121	A	G
SEQ ID NO:3812	SsSNP2006_3831	121	A	C
SEQ ID NO:3813	SsSNP2006_3832	121	C	G
SEQ ID NO:3814	SsSNP2006_3833	121	A	G
SEQ ID NO:3815	SsSNP2006_3834	121	A	C
SEQ ID NO:3816	SsSNP2006_3835	121	A	G
SEQ ID NO:3817	SsSNP2006_3836	121	A	T

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3818	SsSNP2006_3837	121	A	G
SEQ ID NO:3819	SsSNP2006_3838	121	A	G
SEQ ID NO:3820	SsSNP2006_3839	121	A	T
SEQ ID NO:3821	SsSNP2006_3840	121	A	C
SEQ ID NO:3822	SsSNP2006_3841	121	A	G
SEQ ID NO:3823	SsSNP2006_3842	121	A	G
SEQ ID NO:3824	SsSNP2006_3843	121	C	G
SEQ ID NO:3825	SsSNP2006_3844	121	A	G
SEQ ID NO:3826	SsSNP2006_3845	121	A	G
SEQ ID NO:3827	SsSNP2006_3846	121	A	G
SEQ ID NO:3828	SsSNP2006_3847	121	A	T
SEQ ID NO:3829	SsSNP2006_3848	121	A	G
SEQ ID NO:3830	SsSNP2006_3849	121	A	G
SEQ ID NO:3831	SsSNP2006_3850	121	A	G
SEQ ID NO:3832	SsSNP2006_3851	121	A	G
SEQ ID NO:3833	SsSNP2006_3852	121	A	C
SEQ ID NO:3834	SsSNP2006_3853	121	A	T
SEQ ID NO:3835	SsSNP2006_3854	121	A	G
SEQ ID NO:3836	SsSNP2006_3855	121	A	G
SEQ ID NO:3837	SsSNP2006_3856	121	A	T
SEQ ID NO:3838	SsSNP2006_3857	121	A	G
SEQ ID NO:3839	SsSNP2006_3858	121	A	G
SEQ ID NO:3840	SsSNP2006_3859	121	A	G
SEQ ID NO:3841	SsSNP2006_3860	121	A	G
SEQ ID NO:3842	SsSNP2006_3861	121	A	G
SEQ ID NO:3843	SsSNP2006_3862	121	A	G
SEQ ID NO:3844	SsSNP2006_3863	121	A	G
SEQ ID NO:3845	SsSNP2006_3864	121	A	C
SEQ ID NO:3846	SsSNP2006_3865	121	A	C
SEQ ID NO:3847	SsSNP2006_3866	121	A	G
SEQ ID NO:3848	SsSNP2006_3867	121	A	G
SEQ ID NO:3849	SsSNP2006_3868	121	A	G
SEQ ID NO:3850	SsSNP2006_3869	121	A	G
SEQ ID NO:3851	SsSNP2006_3870	121	A	G
SEQ ID NO:3852	SsSNP2006_3871	121	C	G
SEQ ID NO:3853	SsSNP2006_3872	121	A	G
SEQ ID NO:3854	SsSNP2006_3873	121	A	C
SEQ ID NO:3855	SsSNP2006_3874	121	A	G
SEQ ID NO:3856	SsSNP2006_3875	121	A	G
SEQ ID NO:3857	SsSNP2006_3876	121	A	G
SEQ ID NO:3858	SsSNP2006_3877	121	A	G
SEQ ID NO:3859	SsSNP2006_3878	121	A	G
SEQ ID NO:3860	SsSNP2006_3879	121	A	G
SEQ ID NO:3861	SsSNP2006_3880	121	A	G
SEQ ID NO:3862	SsSNP2006_3881	121	A	G
SEQ ID NO:3863	SsSNP2006_3882	121	A	G
SEQ ID NO:3864	SsSNP2006_3883	121	A	G
SEQ ID NO:3865	SsSNP2006_3884	121	A	G
SEQ ID NO:3866	SsSNP2006_3885	121	A	G
SEQ ID NO:3867	SsSNP2006_3886	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3868	SsSNP2006_3887	121	A	G
SEQ ID NO:3869	SsSNP2006_3888	121	A	G
SEQ ID NO:3870	SsSNP2006_3889	121	A	C
SEQ ID NO:3871	SsSNP2006_3890	121	A	G
SEQ ID NO:3872	SsSNP2006_3891	121	A	G
SEQ ID NO:3873	SsSNP2006_3892	121	A	G
SEQ ID NO:3874	SsSNP2006_3893	121	A	C
SEQ ID NO:3875	SsSNP2006_3894	121	A	G
SEQ ID NO:3876	SsSNP2006_3895	121	A	G
SEQ ID NO:3877	SsSNP2006_3896	121	A	C
SEQ ID NO:3878	SsSNP2006_3897	121	A	G
SEQ ID NO:3879	SsSNP2006_3898	121	A	G
SEQ ID NO:3880	SsSNP2006_3899	121	A	G
SEQ ID NO:3881	SsSNP2006_3900	121	A	G
SEQ ID NO:3882	SsSNP2006_3901	121	A	G
SEQ ID NO:3883	SsSNP2006_3902	121	A	G
SEQ ID NO:3884	SsSNP2006_3903	121	A	C
SEQ ID NO:3885	SsSNP2006_3904	121	A	G
SEQ ID NO:3886	SsSNP2006_3905	121	A	G
SEQ ID NO:3887	SsSNP2006_3906	121	A	G
SEQ ID NO:3888	SsSNP2006_3907	121	A	G
SEQ ID NO:3889	SsSNP2006_3908	121	A	C
SEQ ID NO:3890	SsSNP2006_3909	121	A	G
SEQ ID NO:3891	SsSNP2006_3910	121	A	T
SEQ ID NO:3892	SsSNP2006_3911	121	A	G
SEQ ID NO:3893	SsSNP2006_3912	121	A	G
SEQ ID NO:3894	SsSNP2006_3913	121	C	G
SEQ ID NO:3895	SsSNP2006_3914	121	A	G
SEQ ID NO:3896	SsSNP2006_3915	121	A	G
SEQ ID NO:3897	SsSNP2006_3916	121	A	G
SEQ ID NO:3898	SsSNP2006_3917	121	A	G
SEQ ID NO:3899	SsSNP2006_3918	121	A	G
SEQ ID NO:3900	SsSNP2006_3919	121	A	G
SEQ ID NO:3901	SsSNP2006_3920	121	A	G
SEQ ID NO:3902	SsSNP2006_3921	121	A	G
SEQ ID NO:3903	SsSNP2006_3922	121	A	G
SEQ ID NO:3904	SsSNP2006_3923	121	A	G
SEQ ID NO:3905	SsSNP2006_3924	121	A	G
SEQ ID NO:3906	SsSNP2006_3925	121	A	T
SEQ ID NO:3907	SsSNP2006_3926	121	A	G
SEQ ID NO:3908	SsSNP2006_3927	121	A	G
SEQ ID NO:3909	SsSNP2006_3928	121	A	G
SEQ ID NO:3910	SsSNP2006_3929	121	A	G
SEQ ID NO:3911	SsSNP2006_3930	97	A	G
SEQ ID NO:3912	SsSNP2006_3931	121	A	G
SEQ ID NO:3913	SsSNP2006_3932	121	A	G
SEQ ID NO:3914	SsSNP2006_3933	121	A	G
SEQ ID NO:3915	SsSNP2006_3934	121	A	T
SEQ ID NO:3916	SsSNP2006_3935	121	A	G
SEQ ID NO:3917	SsSNP2006_3936	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3918	SsSNP2006_3937	121	A	C
SEQ ID NO:3919	SsSNP2006_3938	121	A	G
SEQ ID NO:3920	SsSNP2006_3939	121	A	T
SEQ ID NO:3921	SsSNP2006_3940	121	A	C
SEQ ID NO:3922	SsSNP2006_3941	121	A	T
SEQ ID NO:3923	SsSNP2006_3942	121	A	G
SEQ ID NO:3924	SsSNP2006_3943	121	A	G
SEQ ID NO:3925	SsSNP2006_3944	121	A	G
SEQ ID NO:3926	SsSNP2006_3945	121	A	G
SEQ ID NO:3927	SsSNP2006_3946	121	A	G
SEQ ID NO:3928	SsSNP2006_3947	121	A	C
SEQ ID NO:3929	SsSNP2006_3948	121	A	G
SEQ ID NO:3930	SsSNP2006_3949	121	C	G
SEQ ID NO:3931	SsSNP2006_3950	121	A	T
SEQ ID NO:3932	SsSNP2006_3951	121	A	G
SEQ ID NO:3933	SsSNP2006_3952	121	A	G
SEQ ID NO:3934	SsSNP2006_3953	121	A	G
SEQ ID NO:3935	SsSNP2006_3954	121	A	G
SEQ ID NO:3936	SsSNP2006_3955	121	A	G
SEQ ID NO:3937	SsSNP2006_3956	121	A	G
SEQ ID NO:3938	SsSNP2006_3957	121	A	G
SEQ ID NO:3939	SsSNP2006_3958	121	A	G
SEQ ID NO:3940	SsSNP2006_3959	121	A	G
SEQ ID NO:3941	SsSNP2006_3960	121	A	G
SEQ ID NO:3942	SsSNP2006_3961	121	C	G
SEQ ID NO:3943	SsSNP2006_3962	121	A	G
SEQ ID NO:3944	SsSNP2006_3963	121	C	G
SEQ ID NO:3945	SsSNP2006_3964	121	A	C
SEQ ID NO:3946	SsSNP2006_3965	121	C	G
SEQ ID NO:3947	SsSNP2006_3966	121	A	G
SEQ ID NO:3948	SsSNP2006_3967	121	A	T
SEQ ID NO:3949	SsSNP2006_3968	121	A	G
SEQ ID NO:3950	SsSNP2006_3969	121	A	G
SEQ ID NO:3951	SsSNP2006_3970	121	A	C
SEQ ID NO:3952	SsSNP2006_3971	121	A	G
SEQ ID NO:3953	SsSNP2006_3972	121	A	G
SEQ ID NO:3954	SsSNP2006_3973	121	A	G
SEQ ID NO:3955	SsSNP2006_3974	121	C	G
SEQ ID NO:3956	SsSNP2006_3975	121	A	C
SEQ ID NO:3957	SsSNP2006_3976	121	A	G
SEQ ID NO:3958	SsSNP2006_3977	121	A	G
SEQ ID NO:3959	SsSNP2006_3978	121	A	G
SEQ ID NO:3960	SsSNP2006_3979	121	A	T
SEQ ID NO:3961	SsSNP2006_3980	121	A	G
SEQ ID NO:3962	SsSNP2006_3981	121	C	G
SEQ ID NO:3963	SsSNP2006_3982	121	A	C
SEQ ID NO:3964	SsSNP2006_3983	121	A	G
SEQ ID NO:3965	SsSNP2006_3984	121	C	G
SEQ ID NO:3966	SsSNP2006_3985	121	A	C
SEQ ID NO:3967	SsSNP2006_3986	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:3968	SsSNP2006_3987	121	A	G
SEQ ID NO:3969	SsSNP2006_3988	121	A	G
SEQ ID NO:3970	SsSNP2006_3989	121	A	G
SEQ ID NO:3971	SsSNP2006_3990	121	A	T
SEQ ID NO:3972	SsSNP2006_3991	121	A	G
SEQ ID NO:3973	SsSNP2006_3992	121	A	G
SEQ ID NO:3974	SsSNP2006_3993	121	A	C
SEQ ID NO:3975	SsSNP2006_3994	121	A	C
SEQ ID NO:3976	SsSNP2006_3995	121	A	G
SEQ ID NO:3977	SsSNP2006_3996	121	A	G
SEQ ID NO:3978	SsSNP2006_3997	121	A	G
SEQ ID NO:3979	SsSNP2006_3998	121	A	G
SEQ ID NO:3980	SsSNP2006_3999	121	A	G
SEQ ID NO:3981	SsSNP2006_4000	121	A	G
SEQ ID NO:3982	SsSNP2006_4001	121	A	T
SEQ ID NO:3983	SsSNP2006_4002	121	A	C
SEQ ID NO:3984	SsSNP2006_4003	121	A	G
SEQ ID NO:3985	SsSNP2006_4004	121	A	T
SEQ ID NO:3986	SsSNP2006_4005	121	A	G
SEQ ID NO:3987	SsSNP2006_4006	121	A	G
SEQ ID NO:3988	SsSNP2006_4007	121	A	G
SEQ ID NO:3989	SsSNP2006_4008	121	A	G
SEQ ID NO:3990	SsSNP2006_4009	121	A	G
SEQ ID NO:3991	SsSNP2006_4010	121	A	G
SEQ ID NO:3992	SsSNP2006_4011	121	A	G
SEQ ID NO:3993	SsSNP2006_4012	121	A	G
SEQ ID NO:3994	SsSNP2006_4013	121	A	G
SEQ ID NO:3995	SsSNP2006_4014	121	A	G
SEQ ID NO:3996	SsSNP2006_4015	121	A	G
SEQ ID NO:3997	SsSNP2006_4016	121	A	T
SEQ ID NO:3998	SsSNP2006_4017	121	A	G
SEQ ID NO:3999	SsSNP2006_4018	121	A	G
SEQ ID NO:4000	SsSNP2006_4019	121	A	G
SEQ ID NO:4001	SsSNP2006_4020	121	A	G
SEQ ID NO:4002	SsSNP2006_4021	121	A	G
SEQ ID NO:4003	SsSNP2006_4022	121	A	G
SEQ ID NO:4004	SsSNP2006_4023	121	A	C
SEQ ID NO:4005	SsSNP2006_4024	121	A	G
SEQ ID NO:4006	SsSNP2006_4025	121	C	G
SEQ ID NO:4007	SsSNP2006_4026	121	A	G
SEQ ID NO:4008	SsSNP2006_4027	121	A	G
SEQ ID NO:4009	SsSNP2006_4028	121	A	C
SEQ ID NO:4010	SsSNP2006_4029	94	C	G
SEQ ID NO:4011	SsSNP2006_4030	121	A	G
SEQ ID NO:4012	SsSNP2006_4031	121	A	G
SEQ ID NO:4013	SsSNP2006_4032	121	A	G
SEQ ID NO:4014	SsSNP2006_4033	121	A	G
SEQ ID NO:4015	SsSNP2006_4034	121	A	G
SEQ ID NO:4016	SsSNP2006_4035	120	C	G
SEQ ID NO:4017	SsSNP2006_4036	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4018	SsSNP2006_4037	121	A	G
SEQ ID NO:4019	SsSNP2006_4038	121	A	G
SEQ ID NO:4020	SsSNP2006_4039	121	A	G
SEQ ID NO:4021	SsSNP2006_4040	121	A	G
SEQ ID NO:4022	SsSNP2006_4041	121	A	G
SEQ ID NO:4023	SsSNP2006_4042	121	A	G
SEQ ID NO:4024	SsSNP2006_4043	121	A	C
SEQ ID NO:4025	SsSNP2006_4044	121	C	G
SEQ ID NO:4026	SsSNP2006_4045	121	A	G
SEQ ID NO:4027	SsSNP2006_4046	121	A	G
SEQ ID NO:4028	SsSNP2006_4047	121	A	G
SEQ ID NO:4029	SsSNP2006_4048	121	A	G
SEQ ID NO:4030	SsSNP2006_4049	121	C	G
SEQ ID NO:4031	SsSNP2006_4050	87	A	G
SEQ ID NO:4032	SsSNP2006_4051	121	A	G
SEQ ID NO:4033	SsSNP2006_4052	121	A	G
SEQ ID NO:4034	SsSNP2006_4053	121	A	G
SEQ ID NO:4035	SsSNP2006_4054	121	A	G
SEQ ID NO:4036	SsSNP2006_4055	121	A	G
SEQ ID NO:4037	SsSNP2006_4056	121	A	G
SEQ ID NO:4038	SsSNP2006_4057	121	A	C
SEQ ID NO:4039	SsSNP2006_4058	121	A	C
SEQ ID NO:4040	SsSNP2006_4059	121	A	G
SEQ ID NO:4041	SsSNP2006_4060	121	A	G
SEQ ID NO:4042	SsSNP2006_4061	121	A	C
SEQ ID NO:4043	SsSNP2006_4062	121	A	G
SEQ ID NO:4044	SsSNP2006_4063	121	A	C
SEQ ID NO:4045	SsSNP2006_4064	121	A	G
SEQ ID NO:4046	SsSNP2006_4065	121	A	G
SEQ ID NO:4047	SsSNP2006_4066	121	A	G
SEQ ID NO:4048	SsSNP2006_4067	121	A	G
SEQ ID NO:4049	SsSNP2006_4068	121	A	G
SEQ ID NO:4050	SsSNP2006_4069	121	A	T
SEQ ID NO:4051	SsSNP2006_4070	121	A	G
SEQ ID NO:4052	SsSNP2006_4071	121	A	G
SEQ ID NO:4053	SsSNP2006_4072	121	A	G
SEQ ID NO:4054	SsSNP2006_4073	121	A	G
SEQ ID NO:4055	SsSNP2006_4074	121	A	G
SEQ ID NO:4056	SsSNP2006_4075	121	A	C
SEQ ID NO:4057	SsSNP2006_4076	121	A	G
SEQ ID NO:4058	SsSNP2006_4077	121	A	G
SEQ ID NO:4059	SsSNP2006_4078	121	A	C
SEQ ID NO:4060	SsSNP2006_4079	121	A	G
SEQ ID NO:4061	SsSNP2006_4080	121	A	G
SEQ ID NO:4062	SsSNP2006_4081	121	C	G
SEQ ID NO:4063	SsSNP2006_4082	121	A	C
SEQ ID NO:4064	SsSNP2006_4083	121	A	G
SEQ ID NO:4065	SsSNP2006_4084	121	A	G
SEQ ID NO:4066	SsSNP2006_4085	121	A	G
SEQ ID NO:4067	SsSNP2006_4086	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4068	SsSNP2006_4087	121	A	G
SEQ ID NO:4069	SsSNP2006_4088	121	A	G
SEQ ID NO:4070	SsSNP2006_4089	121	A	T
SEQ ID NO:4071	SsSNP2006_4090	121	A	G
SEQ ID NO:4072	SsSNP2006_4091	121	A	G
SEQ ID NO:4073	SsSNP2006_4092	121	A	G
SEQ ID NO:4074	SsSNP2006_4093	27	C	G
SEQ ID NO:4075	SsSNP2006_4094	121	A	G
SEQ ID NO:4076	SsSNP2006_4095	121	A	G
SEQ ID NO:4077	SsSNP2006_4096	121	A	G
SEQ ID NO:4078	SsSNP2006_4097	121	A	G
SEQ ID NO:4079	SsSNP2006_4098	121	A	G
SEQ ID NO:4080	SsSNP2006_4099	121	A	C
SEQ ID NO:4081	SsSNP2006_4100	121	A	C
SEQ ID NO:4082	SsSNP2006_4101	121	A	G
SEQ ID NO:4083	SsSNP2006_4102	121	A	G
SEQ ID NO:4084	SsSNP2006_4103	121	A	G
SEQ ID NO:4085	SsSNP2006_4104	121	A	T
SEQ ID NO:4086	SsSNP2006_4105	121	A	T
SEQ ID NO:4087	SsSNP2006_4106	121	A	G
SEQ ID NO:4088	SsSNP2006_4107	121	A	C
SEQ ID NO:4089	SsSNP2006_4108	121	A	C
SEQ ID NO:4090	SsSNP2006_4109	121	C	G
SEQ ID NO:4091	SsSNP2006_4110	121	A	C
SEQ ID NO:4092	SsSNP2006_4111	121	A	T
SEQ ID NO:4093	SsSNP2006_4112	121	A	G
SEQ ID NO:4094	SsSNP2006_4113	121	A	C
SEQ ID NO:4095	SsSNP2006_4114	121	A	C
SEQ ID NO:4096	SsSNP2006_4115	121	A	G
SEQ ID NO:4097	SsSNP2006_4116	121	A	C
SEQ ID NO:4098	SsSNP2006_4117	121	A	G
SEQ ID NO:4099	SsSNP2006_4118	121	A	C
SEQ ID NO:4100	SsSNP2006_4119	121	A	G
SEQ ID NO:4101	SsSNP2006_4120	121	A	G
SEQ ID NO:4102	SsSNP2006_4121	121	C	G
SEQ ID NO:4103	SsSNP2006_4122	121	C	G
SEQ ID NO:4104	SsSNP2006_4123	121	A	G
SEQ ID NO:4105	SsSNP2006_4124	121	A	G
SEQ ID NO:4106	SsSNP2006_4125	121	A	C
SEQ ID NO:4107	SsSNP2006_4126	121	A	G
SEQ ID NO:4108	SsSNP2006_4127	121	A	G
SEQ ID NO:4109	SsSNP2006_4128	121	A	T
SEQ ID NO:4110	SsSNP2006_4129	121	A	G
SEQ ID NO:4111	SsSNP2006_4130	121	A	G
SEQ ID NO:4112	SsSNP2006_4131	121	A	C
SEQ ID NO:4113	SsSNP2006_4132	121	A	G
SEQ ID NO:4114	SsSNP2006_4133	121	A	G
SEQ ID NO:4115	SsSNP2006_4134	121	A	C
SEQ ID NO:4116	SsSNP2006_4135	121	A	G
SEQ ID NO:4117	SsSNP2006_4136	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4118	SsSNP2006_4137	121	A	T
SEQ ID NO:4119	SsSNP2006_4138	121	A	G
SEQ ID NO:4120	SsSNP2006_4139	121	A	C
SEQ ID NO:4121	SsSNP2006_4140	121	A	G
SEQ ID NO:4122	SsSNP2006_4141	121	A	C
SEQ ID NO:4123	SsSNP2006_4142	121	A	G
SEQ ID NO:4124	SsSNP2006_4143	121	A	G
SEQ ID NO:4125	SsSNP2006_4144	121	C	G
SEQ ID NO:4126	SsSNP2006_4145	121	A	G
SEQ ID NO:4127	SsSNP2006_4146	121	A	G
SEQ ID NO:4128	SsSNP2006_4147	121	A	C
SEQ ID NO:4129	SsSNP2006_4148	121	A	C
SEQ ID NO:4130	SsSNP2006_4149	121	A	G
SEQ ID NO:4131	SsSNP2006_4150	121	A	G
SEQ ID NO:4132	SsSNP2006_4151	121	A	T
SEQ ID NO:4133	SsSNP2006_4152	121	A	G
SEQ ID NO:4134	SsSNP2006_4153	121	A	G
SEQ ID NO:4135	SsSNP2006_4154	121	A	C
SEQ ID NO:4136	SsSNP2006_4155	121	A	G
SEQ ID NO:4137	SsSNP2006_4156	121	A	C
SEQ ID NO:4138	SsSNP2006_4157	121	A	C
SEQ ID NO:4139	SsSNP2006_4158	121	A	G
SEQ ID NO:4140	SsSNP2006_4159	121	A	G
SEQ ID NO:4141	SsSNP2006_4160	121	A	G
SEQ ID NO:4142	SsSNP2006_4161	121	A	G
SEQ ID NO:4143	SsSNP2006_4162	121	A	C
SEQ ID NO:4144	SsSNP2006_4163	121	A	C
SEQ ID NO:4145	SsSNP2006_4164	121	A	G
SEQ ID NO:4146	SsSNP2006_4165	121	A	G
SEQ ID NO:4147	SsSNP2006_4166	121	A	T
SEQ ID NO:4148	SsSNP2006_4167	121	A	G
SEQ ID NO:4149	SsSNP2006_4168	121	C	G
SEQ ID NO:4150	SsSNP2006_4169	121	A	G
SEQ ID NO:4151	SsSNP2006_4170	121	A	G
SEQ ID NO:4152	SsSNP2006_4171	121	A	C
SEQ ID NO:4153	SsSNP2006_4172	121	A	G
SEQ ID NO:4154	SsSNP2006_4173	121	A	G
SEQ ID NO:4155	SsSNP2006_4174	121	A	C
SEQ ID NO:4156	SsSNP2006_4175	121	A	G
SEQ ID NO:4157	SsSNP2006_4176	121	A	G
SEQ ID NO:4158	SsSNP2006_4177	121	A	G
SEQ ID NO:4159	SsSNP2006_4178	121	A	G
SEQ ID NO:4160	SsSNP2006_4179	121	A	G
SEQ ID NO:4161	SsSNP2006_4180	121	A	G
SEQ ID NO:4162	SsSNP2006_4181	121	A	G
SEQ ID NO:4163	SsSNP2006_4182	121	A	G
SEQ ID NO:4164	SsSNP2006_4183	121	A	T
SEQ ID NO:4165	SsSNP2006_4184	121	A	G
SEQ ID NO:4166	SsSNP2006_4185	121	A	G
SEQ ID NO:4167	SsSNP2006_4186	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4168	SsSNP2006_4187	121	A	G
SEQ ID NO:4169	SsSNP2006_4188	121	A	G
SEQ ID NO:4170	SsSNP2006_4189	121	A	G
SEQ ID NO:4171	SsSNP2006_4190	121	A	G
SEQ ID NO:4172	SsSNP2006_4191	121	A	G
SEQ ID NO:4173	SsSNP2006_4192	121	A	G
SEQ ID NO:4174	SsSNP2006_4193	121	A	G
SEQ ID NO:4175	SsSNP2006_4194	121	A	T
SEQ ID NO:4176	SsSNP2006_4195	121	A	G
SEQ ID NO:4177	SsSNP2006_4196	121	A	G
SEQ ID NO:4178	SsSNP2006_4197	121	A	G
SEQ ID NO:4179	SsSNP2006_4198	121	A	G
SEQ ID NO:4180	SsSNP2006_4199	121	A	G
SEQ ID NO:4181	SsSNP2006_4200	121	A	G
SEQ ID NO:4182	SsSNP2006_4201	121	A	G
SEQ ID NO:4183	SsSNP2006_4202	121	C	G
SEQ ID NO:4184	SsSNP2006_4203	121	A	G
SEQ ID NO:4185	SsSNP2006_4204	121	A	G
SEQ ID NO:4186	SsSNP2006_4205	121	A	G
SEQ ID NO:4187	SsSNP2006_4206	121	A	G
SEQ ID NO:4188	SsSNP2006_4207	121	A	G
SEQ ID NO:4189	SsSNP2006_4208	121	A	G
SEQ ID NO:4190	SsSNP2006_4209	121	A	G
SEQ ID NO:4191	SsSNP2006_4210	121	A	G
SEQ ID NO:4192	SsSNP2006_4211	121	A	T
SEQ ID NO:4193	SsSNP2006_4212	121	C	G
SEQ ID NO:4194	SsSNP2006_4213	121	A	G
SEQ ID NO:4195	SsSNP2006_4214	121	A	G
SEQ ID NO:4196	SsSNP2006_4215	121	A	G
SEQ ID NO:4197	SsSNP2006_4216	121	A	G
SEQ ID NO:4198	SsSNP2006_4217	121	A	T
SEQ ID NO:4199	SsSNP2006_4218	121	A	G
SEQ ID NO:4200	SsSNP2006_4219	121	C	G
SEQ ID NO:4201	SsSNP2006_4220	121	A	G
SEQ ID NO:4202	SsSNP2006_4221	121	A	G
SEQ ID NO:4203	SsSNP2006_4222	121	A	C
SEQ ID NO:4204	SsSNP2006_4223	121	C	G
SEQ ID NO:4205	SsSNP2006_4224	121	A	T
SEQ ID NO:4206	SsSNP2006_4225	121	A	G
SEQ ID NO:4207	SsSNP2006_4226	121	A	G
SEQ ID NO:4208	SsSNP2006_4227	121	A	C
SEQ ID NO:4209	SsSNP2006_4228	121	A	T
SEQ ID NO:4210	SsSNP2006_4229	121	A	G
SEQ ID NO:4211	SsSNP2006_4230	121	A	G
SEQ ID NO:4212	SsSNP2006_4231	121	A	G
SEQ ID NO:4213	SsSNP2006_4232	121	A	G
SEQ ID NO:4214	SsSNP2006_4233	121	A	G
SEQ ID NO:4215	SsSNP2006_4234	121	C	G
SEQ ID NO:4216	SsSNP2006_4235	121	A	T
SEQ ID NO:4217	SsSNP2006_4236	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4218	SsSNP2006_4237	121	A	G
SEQ ID NO:4219	SsSNP2006_4238	121	A	G
SEQ ID NO:4220	SsSNP2006_4239	121	A	G
SEQ ID NO:4221	SsSNP2006_4240	121	A	G
SEQ ID NO:4222	SsSNP2006_4241	121	C	G
SEQ ID NO:4223	SsSNP2006_4242	121	A	G
SEQ ID NO:4224	SsSNP2006_4243	121	A	G
SEQ ID NO:4225	SsSNP2006_4244	121	A	G
SEQ ID NO:4226	SsSNP2006_4245	121	A	G
SEQ ID NO:4227	SsSNP2006_4246	121	A	G
SEQ ID NO:4228	SsSNP2006_4247	121	A	G
SEQ ID NO:4229	SsSNP2006_4248	121	A	T
SEQ ID NO:4230	SsSNP2006_4249	121	A	G
SEQ ID NO:4231	SsSNP2006_4250	121	A	C
SEQ ID NO:4232	SsSNP2006_4251	121	A	G
SEQ ID NO:4233	SsSNP2006_4252	121	A	G
SEQ ID NO:4234	SsSNP2006_4253	121	A	G
SEQ ID NO:4235	SsSNP2006_4254	121	A	G
SEQ ID NO:4236	SsSNP2006_4255	121	A	G
SEQ ID NO:4237	SsSNP2006_4256	121	A	G
SEQ ID NO:4238	SsSNP2006_4257	121	A	G
SEQ ID NO:4239	SsSNP2006_4258	121	A	G
SEQ ID NO:4240	SsSNP2006_4259	121	C	G
SEQ ID NO:4241	SsSNP2006_4260	121	A	G
SEQ ID NO:4242	SsSNP2006_4261	121	A	G
SEQ ID NO:4243	SsSNP2006_4262	121	A	G
SEQ ID NO:4244	SsSNP2006_4263	121	A	G
SEQ ID NO:4245	SsSNP2006_4264	121	A	G
SEQ ID NO:4246	SsSNP2006_4265	121	A	G
SEQ ID NO:4247	SsSNP2006_4266	121	A	G
SEQ ID NO:4248	SsSNP2006_4267	121	C	G
SEQ ID NO:4249	SsSNP2006_4268	121	C	G
SEQ ID NO:4250	SsSNP2006_4269	121	A	C
SEQ ID NO:4251	SsSNP2006_4270	121	A	G
SEQ ID NO:4252	SsSNP2006_4271	121	A	G
SEQ ID NO:4253	SsSNP2006_4272	121	A	G
SEQ ID NO:4254	SsSNP2006_4273	121	A	G
SEQ ID NO:4255	SsSNP2006_4274	121	A	C
SEQ ID NO:4256	SsSNP2006_4275	121	A	C
SEQ ID NO:4257	SsSNP2006_4276	121	A	G
SEQ ID NO:4258	SsSNP2006_4277	121	A	C
SEQ ID NO:4259	SsSNP2006_4278	121	A	T
SEQ ID NO:4260	SsSNP2006_4279	121	A	G
SEQ ID NO:4261	SsSNP2006_4280	121	A	G
SEQ ID NO:4262	SsSNP2006_4281	121	A	G
SEQ ID NO:4263	SsSNP2006_4282	121	A	T
SEQ ID NO:4264	SsSNP2006_4283	121	A	G
SEQ ID NO:4265	SsSNP2006_4284	121	C	G
SEQ ID NO:4266	SsSNP2006_4285	121	A	G
SEQ ID NO:4267	SsSNP2006_4286	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4268	SsSNP2006_4287	121	A	G
SEQ ID NO:4269	SsSNP2006_4288	121	C	G
SEQ ID NO:4270	SsSNP2006_4289	121	A	C
SEQ ID NO:4271	SsSNP2006_4290	121	A	G
SEQ ID NO:4272	SsSNP2006_4291	121	A	G
SEQ ID NO:4273	SsSNP2006_4292	121	A	G
SEQ ID NO:4274	SsSNP2006_4293	121	A	G
SEQ ID NO:4275	SsSNP2006_4294	121	A	C
SEQ ID NO:4276	SsSNP2006_4295	121	A	T
SEQ ID NO:4277	SsSNP2006_4296	121	A	G
SEQ ID NO:4278	SsSNP2006_4297	121	A	G
SEQ ID NO:4279	SsSNP2006_4298	121	A	G
SEQ ID NO:4280	SsSNP2006_4299	121	A	T
SEQ ID NO:4281	SsSNP2006_4300	121	C	G
SEQ ID NO:4282	SsSNP2006_4301	121	A	C
SEQ ID NO:4283	SsSNP2006_4302	121	A	G
SEQ ID NO:4284	SsSNP2006_4303	121	A	T
SEQ ID NO:4285	SsSNP2006_4304	121	A	G
SEQ ID NO:4286	SsSNP2006_4305	121	A	T
SEQ ID NO:4287	SsSNP2006_4306	121	A	G
SEQ ID NO:4288	SsSNP2006_4307	121	A	G
SEQ ID NO:4289	SsSNP2006_4308	121	A	C
SEQ ID NO:4290	SsSNP2006_4309	121	A	G
SEQ ID NO:4291	SsSNP2006_4310	121	A	G
SEQ ID NO:4292	SsSNP2006_4311	121	A	G
SEQ ID NO:4293	SsSNP2006_4312	121	C	G
SEQ ID NO:4294	SsSNP2006_4313	121	A	G
SEQ ID NO:4295	SsSNP2006_4314	121	A	G
SEQ ID NO:4296	SsSNP2006_4315	121	A	G
SEQ ID NO:4297	SsSNP2006_4316	121	A	G
SEQ ID NO:4298	SsSNP2006_4317	121	A	G
SEQ ID NO:4299	SsSNP2006_4318	121	A	G
SEQ ID NO:4300	SsSNP2006_4319	121	A	C
SEQ ID NO:4301	SsSNP2006_4320	121	C	G
SEQ ID NO:4302	SsSNP2006_4321	121	A	G
SEQ ID NO:4303	SsSNP2006_4322	121	A	G
SEQ ID NO:4304	SsSNP2006_4323	121	A	G
SEQ ID NO:4305	SsSNP2006_4324	121	A	G
SEQ ID NO:4306	SsSNP2006_4325	121	A	G
SEQ ID NO:4307	SsSNP2006_4326	121	A	G
SEQ ID NO:4308	SsSNP2006_4327	121	A	G
SEQ ID NO:4309	SsSNP2006_4328	121	A	T
SEQ ID NO:4310	SsSNP2006_4329	121	A	G
SEQ ID NO:4311	SsSNP2006_4330	121	A	G
SEQ ID NO:4312	SsSNP2006_4331	121	C	G
SEQ ID NO:4313	SsSNP2006_4332	121	A	G
SEQ ID NO:4314	SsSNP2006_4333	121	A	G
SEQ ID NO:4315	SsSNP2006_4334	121	A	G
SEQ ID NO:4316	SsSNP2006_4335	121	A	G
SEQ ID NO:4317	SsSNP2006_4336	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4318	SsSNP2006_4337	121	A	G
SEQ ID NO:4319	SsSNP2006_4338	121	A	C
SEQ ID NO:4320	SsSNP2006_4339	121	A	G
SEQ ID NO:4321	SsSNP2006_4340	121	A	G
SEQ ID NO:4322	SsSNP2006_4341	121	A	G
SEQ ID NO:4323	SsSNP2006_4342	121	A	G
SEQ ID NO:4324	SsSNP2006_4343	121	A	G
SEQ ID NO:4325	SsSNP2006_4344	121	A	G
SEQ ID NO:4326	SsSNP2006_4345	121	A	G
SEQ ID NO:4327	SsSNP2006_4346	121	A	G
SEQ ID NO:4328	SsSNP2006_4347	121	A	G
SEQ ID NO:4329	SsSNP2006_4348	121	C	G
SEQ ID NO:4330	SsSNP2006_4349	121	A	G
SEQ ID NO:4331	SsSNP2006_4350	121	A	G
SEQ ID NO:4332	SsSNP2006_4351	121	A	G
SEQ ID NO:4333	SsSNP2006_4352	121	A	G
SEQ ID NO:4334	SsSNP2006_4353	121	A	C
SEQ ID NO:4335	SsSNP2006_4354	121	A	C
SEQ ID NO:4336	SsSNP2006_4355	121	A	G
SEQ ID NO:4337	SsSNP2006_4356	121	A	G
SEQ ID NO:4338	SsSNP2006_4357	121	A	G
SEQ ID NO:4339	SsSNP2006_4358	121	A	C
SEQ ID NO:4340	SsSNP2006_4359	121	A	G
SEQ ID NO:4341	SsSNP2006_4360	121	C	G
SEQ ID NO:4342	SsSNP2006_4361	121	A	G
SEQ ID NO:4343	SsSNP2006_4362	121	A	C
SEQ ID NO:4344	SsSNP2006_4363	121	A	G
SEQ ID NO:4345	SsSNP2006_4364	121	A	G
SEQ ID NO:4346	SsSNP2006_4365	121	A	G
SEQ ID NO:4347	SsSNP2006_4366	121	A	C
SEQ ID NO:4348	SsSNP2006_4367	121	A	G
SEQ ID NO:4349	SsSNP2006_4368	121	A	G
SEQ ID NO:4350	SsSNP2006_4369	121	A	G
SEQ ID NO:4351	SsSNP2006_4370	121	A	G
SEQ ID NO:4352	SsSNP2006_4371	121	A	G
SEQ ID NO:4353	SsSNP2006_4372	121	A	C
SEQ ID NO:4354	SsSNP2006_4373	121	A	G
SEQ ID NO:4355	SsSNP2006_4374	121	A	G
SEQ ID NO:4356	SsSNP2006_4375	121	A	C
SEQ ID NO:4357	SsSNP2006_4376	121	A	C
SEQ ID NO:4358	SsSNP2006_4377	121	C	G
SEQ ID NO:4359	SsSNP2006_4378	121	A	G
SEQ ID NO:4360	SsSNP2006_4379	121	A	G
SEQ ID NO:4361	SsSNP2006_4380	121	A	C
SEQ ID NO:4362	SsSNP2006_4381	121	A	G
SEQ ID NO:4363	SsSNP2006_4382	121	A	C
SEQ ID NO:4364	SsSNP2006_4383	121	A	G
SEQ ID NO:4365	SsSNP2006_4384	121	A	G
SEQ ID NO:4366	SsSNP2006_4385	121	A	T
SEQ ID NO:4367	SsSNP2006_4386	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4368	SsSNP2006_4387	121	A	C
SEQ ID NO:4369	SsSNP2006_4388	121	A	G
SEQ ID NO:4370	SsSNP2006_4389	121	A	G
SEQ ID NO:4371	SsSNP2006_4390	121	A	G
SEQ ID NO:4372	SsSNP2006_4391	121	A	G
SEQ ID NO:4373	SsSNP2006_4392	121	A	T
SEQ ID NO:4374	SsSNP2006_4393	121	A	G
SEQ ID NO:4375	SsSNP2006_4394	121	A	G
SEQ ID NO:4376	SsSNP2006_4395	121	A	C
SEQ ID NO:4377	SsSNP2006_4396	121	A	G
SEQ ID NO:4378	SsSNP2006_4397	121	A	G
SEQ ID NO:4379	SsSNP2006_4398	121	A	G
SEQ ID NO:4380	SsSNP2006_4399	121	A	G
SEQ ID NO:4381	SsSNP2006_4400	121	A	G
SEQ ID NO:4382	SsSNP2006_4401	121	A	G
SEQ ID NO:4383	SsSNP2006_4402	121	A	G
SEQ ID NO:4384	SsSNP2006_4403	121	A	G
SEQ ID NO:4385	SsSNP2006_4404	121	A	C
SEQ ID NO:4386	SsSNP2006_4405	121	A	G
SEQ ID NO:4387	SsSNP2006_4406	121	A	G
SEQ ID NO:4388	SsSNP2006_4407	121	A	G
SEQ ID NO:4389	SsSNP2006_4408	121	A	G
SEQ ID NO:4390	SsSNP2006_4409	121	A	C
SEQ ID NO:4391	SsSNP2006_4410	121	A	C
SEQ ID NO:4392	SsSNP2006_4411	121	A	C
SEQ ID NO:4393	SsSNP2006_4412	121	C	G
SEQ ID NO:4394	SsSNP2006_4413	121	A	C
SEQ ID NO:4395	SsSNP2006_4414	121	A	G
SEQ ID NO:4396	SsSNP2006_4415	121	A	G
SEQ ID NO:4397	SsSNP2006_4416	121	A	G
SEQ ID NO:4398	SsSNP2006_4417	121	A	G
SEQ ID NO:4399	SsSNP2006_4418	121	A	C
SEQ ID NO:4400	SsSNP2006_4419	121	A	G
SEQ ID NO:4401	SsSNP2006_4420	121	A	G
SEQ ID NO:4402	SsSNP2006_4421	121	A	G
SEQ ID NO:4403	SsSNP2006_4422	121	A	G
SEQ ID NO:4404	SsSNP2006_4423	121	A	G
SEQ ID NO:4405	SsSNP2006_4424	121	A	G
SEQ ID NO:4406	SsSNP2006_4425	121	A	G
SEQ ID NO:4407	SsSNP2006_4426	121	A	G
SEQ ID NO:4408	SsSNP2006_4427	121	A	G
SEQ ID NO:4409	SsSNP2006_4428	121	A	C
SEQ ID NO:4410	SsSNP2006_4429	121	A	G
SEQ ID NO:4411	SsSNP2006_4430	121	A	G
SEQ ID NO:4412	SsSNP2006_4431	121	A	G
SEQ ID NO:4413	SsSNP2006_4432	121	A	G
SEQ ID NO:4414	SsSNP2006_4433	121	A	G
SEQ ID NO:4415	SsSNP2006_4434	121	A	G
SEQ ID NO:4416	SsSNP2006_4435	121	A	G
SEQ ID NO:4417	SsSNP2006_4436	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4418	SsSNP2006_4437	121	A	G
SEQ ID NO:4419	SsSNP2006_4438	121	A	G
SEQ ID NO:4420	SsSNP2006_4439	121	A	G
SEQ ID NO:4421	SsSNP2006_4440	121	A	T
SEQ ID NO:4422	SsSNP2006_4441	121	A	G
SEQ ID NO:4423	SsSNP2006_4442	85	A	G
SEQ ID NO:4424	SsSNP2006_4443	121	A	C
SEQ ID NO:4425	SsSNP2006_4444	121	A	G
SEQ ID NO:4426	SsSNP2006_4445	121	A	G
SEQ ID NO:4427	SsSNP2006_4446	121	A	G
SEQ ID NO:4428	SsSNP2006_4447	121	A	G
SEQ ID NO:4429	SsSNP2006_4448	121	A	G
SEQ ID NO:4430	SsSNP2006_4449	121	A	C
SEQ ID NO:4431	SsSNP2006_4450	121	A	G
SEQ ID NO:4432	SsSNP2006_4451	121	A	G
SEQ ID NO:4433	SsSNP2006_4452	121	A	C
SEQ ID NO:4434	SsSNP2006_4453	121	A	C
SEQ ID NO:4435	SsSNP2006_4454	121	A	G
SEQ ID NO:4436	SsSNP2006_4455	121	C	G
SEQ ID NO:4437	SsSNP2006_4456	121	A	G
SEQ ID NO:4438	SsSNP2006_4457	121	A	G
SEQ ID NO:4439	SsSNP2006_4458	121	A	G
SEQ ID NO:4440	SsSNP2006_4459	121	A	C
SEQ ID NO:4441	SsSNP2006_4460	121	A	G
SEQ ID NO:4442	SsSNP2006_4461	121	A	G
SEQ ID NO:4443	SsSNP2006_4462	121	A	T
SEQ ID NO:4444	SsSNP2006_4463	121	A	G
SEQ ID NO:4445	SsSNP2006_4464	121	A	G
SEQ ID NO:4446	SsSNP2006_4465	121	A	G
SEQ ID NO:4447	SsSNP2006_4466	121	A	G
SEQ ID NO:4448	SsSNP2006_4467	121	A	G
SEQ ID NO:4449	SsSNP2006_4468	121	A	G
SEQ ID NO:4450	SsSNP2006_4469	121	A	C
SEQ ID NO:4451	SsSNP2006_4470	121	A	G
SEQ ID NO:4452	SsSNP2006_4471	121	A	G
SEQ ID NO:4453	SsSNP2006_4472	121	A	G
SEQ ID NO:4454	SsSNP2006_4473	121	A	T
SEQ ID NO:4455	SsSNP2006_4474	121	A	G
SEQ ID NO:4456	SsSNP2006_4475	121	A	G
SEQ ID NO:4457	SsSNP2006_4476	121	A	G
SEQ ID NO:4458	SsSNP2006_4477	121	A	G
SEQ ID NO:4459	SsSNP2006_4478	121	A	G
SEQ ID NO:4460	SsSNP2006_4479	121	A	G
SEQ ID NO:4461	SsSNP2006_4480	121	C	G
SEQ ID NO:4462	SsSNP2006_4481	121	C	G
SEQ ID NO:4463	SsSNP2006_4482	121	A	G
SEQ ID NO:4464	SsSNP2006_4483	121	A	G
SEQ ID NO:4465	SsSNP2006_4484	121	A	G
SEQ ID NO:4466	SsSNP2006_4485	121	A	G
SEQ ID NO:4467	SsSNP2006_4486	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4468	SsSNP2006_4487	121	C	G
SEQ ID NO:4469	SsSNP2006_4488	121	A	G
SEQ ID NO:4470	SsSNP2006_4489	121	A	G
SEQ ID NO:4471	SsSNP2006_4490	121	A	G
SEQ ID NO:4472	SsSNP2006_4491	121	A	G
SEQ ID NO:4473	SsSNP2006_4492	121	A	G
SEQ ID NO:4474	SsSNP2006_4493	121	A	G
SEQ ID NO:4475	SsSNP2006_4494	121	A	G
SEQ ID NO:4476	SsSNP2006_4495	121	A	G
SEQ ID NO:4477	SsSNP2006_4496	121	A	C
SEQ ID NO:4478	SsSNP2006_4497	121	A	G
SEQ ID NO:4479	SsSNP2006_4498	121	A	G
SEQ ID NO:4480	SsSNP2006_4499	121	A	G
SEQ ID NO:4481	SsSNP2006_4500	121	A	T
SEQ ID NO:4482	SsSNP2006_4501	121	A	C
SEQ ID NO:4483	SsSNP2006_4502	121	A	C
SEQ ID NO:4484	SsSNP2006_4503	121	A	G
SEQ ID NO:4485	SsSNP2006_4504	121	A	T
SEQ ID NO:4486	SsSNP2006_4505	121	A	G
SEQ ID NO:4487	SsSNP2006_4506	121	C	G
SEQ ID NO:4488	SsSNP2006_4507	121	A	G
SEQ ID NO:4489	SsSNP2006_4508	121	A	G
SEQ ID NO:4490	SsSNP2006_4509	121	A	C
SEQ ID NO:4491	SsSNP2006_4510	121	A	G
SEQ ID NO:4492	SsSNP2006_4511	121	A	C
SEQ ID NO:4493	SsSNP2006_4512	121	A	G
SEQ ID NO:4494	SsSNP2006_4513	121	A	G
SEQ ID NO:4495	SsSNP2006_4514	121	A	C
SEQ ID NO:4496	SsSNP2006_4515	121	A	G
SEQ ID NO:4497	SsSNP2006_4516	121	A	G
SEQ ID NO:4498	SsSNP2006_4517	121	A	G
SEQ ID NO:4499	SsSNP2006_4518	121	A	G
SEQ ID NO:4500	SsSNP2006_4519	121	A	G
SEQ ID NO:4501	SsSNP2006_4520	121	A	G
SEQ ID NO:4502	SsSNP2006_4521	121	A	G
SEQ ID NO:4503	SsSNP2006_4522	121	A	G
SEQ ID NO:4504	SsSNP2006_4523	121	A	G
SEQ ID NO:4505	SsSNP2006_4524	121	A	G
SEQ ID NO:4506	SsSNP2006_4525	121	C	G
SEQ ID NO:4507	SsSNP2006_4526	121	A	C
SEQ ID NO:4508	SsSNP2006_4527	121	A	G
SEQ ID NO:4509	SsSNP2006_4528	121	A	G
SEQ ID NO:4510	SsSNP2006_4529	121	A	G
SEQ ID NO:4511	SsSNP2006_4530	121	A	G
SEQ ID NO:4512	SsSNP2006_4531	122	A	G
SEQ ID NO:4513	SsSNP2006_4532	121	A	C
SEQ ID NO:4514	SsSNP2006_4533	121	A	G
SEQ ID NO:4515	SsSNP2006_4534	121	A	G
SEQ ID NO:4516	SsSNP2006_4535	121	A	G
SEQ ID NO:4517	SsSNP2006_4536	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4518	SsSNP2006_4537	121	A	T
SEQ ID NO:4519	SsSNP2006_4538	121	A	G
SEQ ID NO:4520	SsSNP2006_4539	121	C	G
SEQ ID NO:4521	SsSNP2006_4540	121	A	G
SEQ ID NO:4522	SsSNP2006_4541	121	A	G
SEQ ID NO:4523	SsSNP2006_4542	121	A	G
SEQ ID NO:4524	SsSNP2006_4543	121	A	G
SEQ ID NO:4525	SsSNP2006_4544	121	A	G
SEQ ID NO:4526	SsSNP2006_4545	121	A	C
SEQ ID NO:4527	SsSNP2006_4546	77	A	C
SEQ ID NO:4528	SsSNP2006_4547	121	A	G
SEQ ID NO:4529	SsSNP2006_4548	121	A	T
SEQ ID NO:4530	SsSNP2006_4549	121	C	G
SEQ ID NO:4531	SsSNP2006_4550	121	C	G
SEQ ID NO:4532	SsSNP2006_4551	121	A	C
SEQ ID NO:4533	SsSNP2006_4552	121	A	C
SEQ ID NO:4534	SsSNP2006_4553	121	A	C
SEQ ID NO:4535	SsSNP2006_4554	121	A	C
SEQ ID NO:4536	SsSNP2006_4555	121	A	C
SEQ ID NO:4537	SsSNP2006_4556	121	A	G
SEQ ID NO:4538	SsSNP2006_4557	121	A	G
SEQ ID NO:4539	SsSNP2006_4558	121	A	G
SEQ ID NO:4540	SsSNP2006_4559	121	A	G
SEQ ID NO:4541	SsSNP2006_4560	121	A	G
SEQ ID NO:4542	SsSNP2006_4561	121	A	G
SEQ ID NO:4543	SsSNP2006_4562	121	A	G
SEQ ID NO:4544	SsSNP2006_4563	121	C	G
SEQ ID NO:4545	SsSNP2006_4564	121	A	G
SEQ ID NO:4546	SsSNP2006_4565	121	A	G
SEQ ID NO:4547	SsSNP2006_4566	121	A	C
SEQ ID NO:4548	SsSNP2006_4567	121	A	G
SEQ ID NO:4549	SsSNP2006_4568	121	A	G
SEQ ID NO:4550	SsSNP2006_4569	121	A	G
SEQ ID NO:4551	SsSNP2006_4570	121	A	C
SEQ ID NO:4552	SsSNP2006_4571	121	A	G
SEQ ID NO:4553	SsSNP2006_4572	121	A	G
SEQ ID NO:4554	SsSNP2006_4573	121	A	C
SEQ ID NO:4555	SsSNP2006_4574	121	A	G
SEQ ID NO:4556	SsSNP2006_4575	121	A	G
SEQ ID NO:4557	SsSNP2006_4576	121	A	C
SEQ ID NO:4558	SsSNP2006_4577	121	A	C
SEQ ID NO:4559	SsSNP2006_4578	121	A	C
SEQ ID NO:4560	SsSNP2006_4579	121	A	C
SEQ ID NO:4561	SsSNP2006_4580	121	A	G
SEQ ID NO:4562	SsSNP2006_4581	121	A	G
SEQ ID NO:4563	SsSNP2006_4582	121	A	G
SEQ ID NO:4564	SsSNP2006_4583	121	A	G
SEQ ID NO:4565	SsSNP2006_4584	121	A	G
SEQ ID NO:4566	SsSNP2006_4585	121	A	G
SEQ ID NO:4567	SsSNP2006_4586	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4568	SsSNP2006_4587	121	A	G
SEQ ID NO:4569	SsSNP2006_4588	121	A	C
SEQ ID NO:4570	SsSNP2006_4589	121	A	T
SEQ ID NO:4571	SsSNP2006_4590	121	A	G
SEQ ID NO:4572	SsSNP2006_4591	121	A	T
SEQ ID NO:4573	SsSNP2006_4592	121	A	G
SEQ ID NO:4574	SsSNP2006_4593	121	A	G
SEQ ID NO:4575	SsSNP2006_4594	121	A	C
SEQ ID NO:4576	SsSNP2006_4595	114	C	G
SEQ ID NO:4577	SsSNP2006_4596	121	A	C
SEQ ID NO:4578	SsSNP2006_4597	121	A	G
SEQ ID NO:4579	SsSNP2006_4598	121	A	G
SEQ ID NO:4580	SsSNP2006_4599	121	A	G
SEQ ID NO:4581	SsSNP2006_4600	121	A	G
SEQ ID NO:4582	SsSNP2006_4601	121	A	G
SEQ ID NO:4583	SsSNP2006_4602	121	C	G
SEQ ID NO:4584	SsSNP2006_4603	121	A	G
SEQ ID NO:4585	SsSNP2006_4604	121	A	G
SEQ ID NO:4586	SsSNP2006_4605	121	A	G
SEQ ID NO:4587	SsSNP2006_4606	121	A	T
SEQ ID NO:4588	SsSNP2006_4607	121	A	G
SEQ ID NO:4589	SsSNP2006_4608	121	A	G
SEQ ID NO:4590	SsSNP2006_4609	121	A	G
SEQ ID NO:4591	SsSNP2006_4610	121	A	C
SEQ ID NO:4592	SsSNP2006_4611	121	C	G
SEQ ID NO:4593	SsSNP2006_4612	121	A	G
SEQ ID NO:4594	SsSNP2006_4613	121	A	G
SEQ ID NO:4595	SsSNP2006_4614	121	A	G
SEQ ID NO:4596	SsSNP2006_4615	121	A	G
SEQ ID NO:4597	SsSNP2006_4616	121	A	G
SEQ ID NO:4598	SsSNP2006_4617	121	A	G
SEQ ID NO:4599	SsSNP2006_4618	121	C	G
SEQ ID NO:4600	SsSNP2006_4619	121	A	G
SEQ ID NO:4601	SsSNP2006_4620	121	A	C
SEQ ID NO:4602	SsSNP2006_4621	121	A	G
SEQ ID NO:4603	SsSNP2006_4622	121	A	C
SEQ ID NO:4604	SsSNP2006_4623	121	A	G
SEQ ID NO:4605	SsSNP2006_4624	121	A	G
SEQ ID NO:4606	SsSNP2006_4625	121	A	G
SEQ ID NO:4607	SsSNP2006_4626	121	A	G
SEQ ID NO:4608	SsSNP2006_4627	121	A	G
SEQ ID NO:4609	SsSNP2006_4628	121	A	C
SEQ ID NO:4610	SsSNP2006_4629	121	A	C
SEQ ID NO:4611	SsSNP2006_4630	121	A	G
SEQ ID NO:4612	SsSNP2006_4631	121	A	C
SEQ ID NO:4613	SsSNP2006_4632	121	A	G
SEQ ID NO:4614	SsSNP2006_4633	121	C	G
SEQ ID NO:4615	SsSNP2006_4634	121	A	G
SEQ ID NO:4616	SsSNP2006_4635	121	A	G
SEQ ID NO:4617	SsSNP2006_4636	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4618	SsSNP2006_4637	121	A	G
SEQ ID NO:4619	SsSNP2006_4638	121	A	G
SEQ ID NO:4620	SsSNP2006_4639	121	C	G
SEQ ID NO:4621	SsSNP2006_4640	121	A	G
SEQ ID NO:4622	SsSNP2006_4641	121	A	G
SEQ ID NO:4623	SsSNP2006_4642	121	A	G
SEQ ID NO:4624	SsSNP2006_4643	121	A	G
SEQ ID NO:4625	SsSNP2006_4644	121	A	G
SEQ ID NO:4626	SsSNP2006_4645	121	C	G
SEQ ID NO:4627	SsSNP2006_4646	121	A	G
SEQ ID NO:4628	SsSNP2006_4647	121	A	G
SEQ ID NO:4629	SsSNP2006_4648	121	A	T
SEQ ID NO:4630	SsSNP2006_4649	121	A	G
SEQ ID NO:4631	SsSNP2006_4650	121	A	G
SEQ ID NO:4632	SsSNP2006_4651	121	A	C
SEQ ID NO:4633	SsSNP2006_4652	121	A	G
SEQ ID NO:4634	SsSNP2006_4653	121	A	C
SEQ ID NO:4635	SsSNP2006_4654	121	A	G
SEQ ID NO:4636	SsSNP2006_4655	121	A	G
SEQ ID NO:4637	SsSNP2006_4656	121	A	C
SEQ ID NO:4638	SsSNP2006_4657	121	A	C
SEQ ID NO:4639	SsSNP2006_4658	121	A	G
SEQ ID NO:4640	SsSNP2006_4659	109	A	G
SEQ ID NO:4641	SsSNP2006_4660	121	A	G
SEQ ID NO:4642	SsSNP2006_4661	121	A	C
SEQ ID NO:4643	SsSNP2006_4662	121	A	G
SEQ ID NO:4644	SsSNP2006_4663	121	A	G
SEQ ID NO:4645	SsSNP2006_4664	121	A	C
SEQ ID NO:4646	SsSNP2006_4665	121	A	G
SEQ ID NO:4647	SsSNP2006_4666	121	A	G
SEQ ID NO:4648	SsSNP2006_4667	121	A	G
SEQ ID NO:4649	SsSNP2006_4668	121	A	C
SEQ ID NO:4650	SsSNP2006_4669	121	A	G
SEQ ID NO:4651	SsSNP2006_4670	121	A	G
SEQ ID NO:4652	SsSNP2006_4671	121	C	G
SEQ ID NO:4653	SsSNP2006_4672	121	A	C
SEQ ID NO:4654	SsSNP2006_4673	121	A	G
SEQ ID NO:4655	SsSNP2006_4674	121	A	G
SEQ ID NO:4656	SsSNP2006_4675	121	A	G
SEQ ID NO:4657	SsSNP2006_4676	121	A	C
SEQ ID NO:4658	SsSNP2006_4677	121	A	G
SEQ ID NO:4659	SsSNP2006_4678	121	A	G
SEQ ID NO:4660	SsSNP2006_4679	121	A	G
SEQ ID NO:4661	SsSNP2006_4680	121	A	C
SEQ ID NO:4662	SsSNP2006_4681	121	A	G
SEQ ID NO:4663	SsSNP2006_4682	121	A	G
SEQ ID NO:4664	SsSNP2006_4683	121	A	G
SEQ ID NO:4665	SsSNP2006_4684	121	A	G
SEQ ID NO:4666	SsSNP2006_4685	121	A	G
SEQ ID NO:4667	SsSNP2006_4686	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4668	SsSNP2006_4687	121	A	G
SEQ ID NO:4669	SsSNP2006_4688	121	A	G
SEQ ID NO:4670	SsSNP2006_4689	121	A	G
SEQ ID NO:4671	SsSNP2006_4690	121	A	C
SEQ ID NO:4672	SsSNP2006_4691	121	A	G
SEQ ID NO:4673	SsSNP2006_4692	121	A	C
SEQ ID NO:4674	SsSNP2006_4693	121	A	G
SEQ ID NO:4675	SsSNP2006_4694	121	A	G
SEQ ID NO:4676	SsSNP2006_4695	121	A	G
SEQ ID NO:4677	SsSNP2006_4696	121	A	G
SEQ ID NO:4678	SsSNP2006_4697	121	A	G
SEQ ID NO:4679	SsSNP2006_4698	121	A	C
SEQ ID NO:4680	SsSNP2006_4699	121	A	G
SEQ ID NO:4681	SsSNP2006_4700	121	C	G
SEQ ID NO:4682	SsSNP2006_4701	121	A	T
SEQ ID NO:4683	SsSNP2006_4702	121	A	G
SEQ ID NO:4684	SsSNP2006_4703	121	A	G
SEQ ID NO:4685	SsSNP2006_4704	121	A	G
SEQ ID NO:4686	SsSNP2006_4705	121	A	G
SEQ ID NO:4687	SsSNP2006_4706	121	A	C
SEQ ID NO:4688	SsSNP2006_4707	121	A	G
SEQ ID NO:4689	SsSNP2006_4708	121	A	C
SEQ ID NO:4690	SsSNP2006_4709	121	A	G
SEQ ID NO:4691	SsSNP2006_4710	121	A	G
SEQ ID NO:4692	SsSNP2006_4711	121	A	C
SEQ ID NO:4693	SsSNP2006_4712	121	A	G
SEQ ID NO:4694	SsSNP2006_4713	121	A	G
SEQ ID NO:4695	SsSNP2006_4714	121	A	C
SEQ ID NO:4696	SsSNP2006_4715	121	A	T
SEQ ID NO:4697	SsSNP2006_4716	121	A	G
SEQ ID NO:4698	SsSNP2006_4717	121	C	G
SEQ ID NO:4699	SsSNP2006_4718	121	A	C
SEQ ID NO:4700	SsSNP2006_4719	121	A	T
SEQ ID NO:4701	SsSNP2006_4720	121	A	G
SEQ ID NO:4702	SsSNP2006_4721	121	A	G
SEQ ID NO:4703	SsSNP2006_4722	121	A	G
SEQ ID NO:4704	SsSNP2006_4723	121	A	C
SEQ ID NO:4705	SsSNP2006_4724	121	A	G
SEQ ID NO:4706	SsSNP2006_4725	121	A	G
SEQ ID NO:4707	SsSNP2006_4726	121	A	C
SEQ ID NO:4708	SsSNP2006_4727	121	C	G
SEQ ID NO:4709	SsSNP2006_4728	121	A	G
SEQ ID NO:4710	SsSNP2006_4729	121	A	G
SEQ ID NO:4711	SsSNP2006_4730	121	C	G
SEQ ID NO:4712	SsSNP2006_4731	121	A	G
SEQ ID NO:4713	SsSNP2006_4732	121	A	G
SEQ ID NO:4714	SsSNP2006_4733	121	A	G
SEQ ID NO:4715	SsSNP2006_4734	121	A	G
SEQ ID NO:4716	SsSNP2006_4735	121	A	C
SEQ ID NO:4717	SsSNP2006_4736	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4718	SsSNP2006_4737	121	A	G
SEQ ID NO:4719	SsSNP2006_4738	121	A	G
SEQ ID NO:4720	SsSNP2006_4739	121	A	G
SEQ ID NO:4721	SsSNP2006_4740	121	A	G
SEQ ID NO:4722	SsSNP2006_4741	121	A	G
SEQ ID NO:4723	SsSNP2006_4742	121	A	G
SEQ ID NO:4724	SsSNP2006_4743	121	C	G
SEQ ID NO:4725	SsSNP2006_4744	121	A	G
SEQ ID NO:4726	SsSNP2006_4745	121	A	G
SEQ ID NO:4727	SsSNP2006_4746	121	A	G
SEQ ID NO:4728	SsSNP2006_4747	121	A	C
SEQ ID NO:4729	SsSNP2006_4748	121	A	G
SEQ ID NO:4730	SsSNP2006_4749	41	A	G
SEQ ID NO:4731	SsSNP2006_4750	121	A	G
SEQ ID NO:4732	SsSNP2006_4751	121	A	G
SEQ ID NO:4733	SsSNP2006_4752	121	A	G
SEQ ID NO:4734	SsSNP2006_4753	121	C	G
SEQ ID NO:4735	SsSNP2006_4754	121	A	G
SEQ ID NO:4736	SsSNP2006_4755	121	A	G
SEQ ID NO:4737	SsSNP2006_4756	121	A	C
SEQ ID NO:4738	SsSNP2006_4757	121	A	G
SEQ ID NO:4739	SsSNP2006_4758	121	A	C
SEQ ID NO:4740	SsSNP2006_4759	121	A	C
SEQ ID NO:4741	SsSNP2006_4760	121	A	G
SEQ ID NO:4742	SsSNP2006_4761	121	A	G
SEQ ID NO:4743	SsSNP2006_4762	121	A	C
SEQ ID NO:4744	SsSNP2006_4763	121	A	G
SEQ ID NO:4745	SsSNP2006_4764	121	C	G
SEQ ID NO:4746	SsSNP2006_4765	121	A	G
SEQ ID NO:4747	SsSNP2006_4766	121	A	G
SEQ ID NO:4748	SsSNP2006_4767	121	A	G
SEQ ID NO:4749	SsSNP2006_4768	121	A	G
SEQ ID NO:4750	SsSNP2006_4769	121	A	G
SEQ ID NO:4751	SsSNP2006_4770	121	A	G
SEQ ID NO:4752	SsSNP2006_4771	121	A	G
SEQ ID NO:4753	SsSNP2006_4772	121	A	C
SEQ ID NO:4754	SsSNP2006_4773	121	A	G
SEQ ID NO:4755	SsSNP2006_4774	121	A	G
SEQ ID NO:4756	SsSNP2006_4775	121	A	G
SEQ ID NO:4757	SsSNP2006_4776	121	A	G
SEQ ID NO:4758	SsSNP2006_4777	121	A	G
SEQ ID NO:4759	SsSNP2006_4778	121	A	G
SEQ ID NO:4760	SsSNP2006_4779	121	A	G
SEQ ID NO:4761	SsSNP2006_4780	121	A	G
SEQ ID NO:4762	SsSNP2006_4781	121	A	T
SEQ ID NO:4763	SsSNP2006_4782	121	A	G
SEQ ID NO:4764	SsSNP2006_4783	121	A	G
SEQ ID NO:4765	SsSNP2006_4784	121	C	G
SEQ ID NO:4766	SsSNP2006_4785	121	A	G
SEQ ID NO:4767	SsSNP2006_4786	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4768	SsSNP2006_4787	121	A	C
SEQ ID NO:4769	SsSNP2006_4788	121	A	T
SEQ ID NO:4770	SsSNP2006_4789	121	A	G
SEQ ID NO:4771	SsSNP2006_4790	121	A	G
SEQ ID NO:4772	SsSNP2006_4791	121	A	C
SEQ ID NO:4773	SsSNP2006_4792	121	A	G
SEQ ID NO:4774	SsSNP2006_4793	121	C	G
SEQ ID NO:4775	SsSNP2006_4794	121	A	G
SEQ ID NO:4776	SsSNP2006_4795	121	A	C
SEQ ID NO:4777	SsSNP2006_4796	121	A	G
SEQ ID NO:4778	SsSNP2006_4797	121	A	G
SEQ ID NO:4779	SsSNP2006_4798	121	A	G
SEQ ID NO:4780	SsSNP2006_4799	121	A	G
SEQ ID NO:4781	SsSNP2006_4800	121	A	C
SEQ ID NO:4782	SsSNP2006_4801	121	C	G
SEQ ID NO:4783	SsSNP2006_4802	121	A	G
SEQ ID NO:4784	SsSNP2006_4803	121	A	G
SEQ ID NO:4785	SsSNP2006_4804	121	A	G
SEQ ID NO:4786	SsSNP2006_4805	121	A	G
SEQ ID NO:4787	SsSNP2006_4806	121	A	T
SEQ ID NO:4788	SsSNP2006_4807	121	A	G
SEQ ID NO:4789	SsSNP2006_4808	121	A	G
SEQ ID NO:4790	SsSNP2006_4809	121	A	G
SEQ ID NO:4791	SsSNP2006_4810	121	A	G
SEQ ID NO:4792	SsSNP2006_4811	121	A	G
SEQ ID NO:4793	SsSNP2006_4812	121	A	G
SEQ ID NO:4794	SsSNP2006_4813	121	A	G
SEQ ID NO:4795	SsSNP2006_4814	121	C	G
SEQ ID NO:4796	SsSNP2006_4815	121	A	G
SEQ ID NO:4797	SsSNP2006_4816	121	A	G
SEQ ID NO:4798	SsSNP2006_4817	121	A	G
SEQ ID NO:4799	SsSNP2006_4818	121	A	G
SEQ ID NO:4800	SsSNP2006_4819	121	A	G
SEQ ID NO:4801	SsSNP2006_4820	121	A	T
SEQ ID NO:4802	SsSNP2006_4821	121	A	G
SEQ ID NO:4803	SsSNP2006_4822	121	C	G
SEQ ID NO:4804	SsSNP2006_4823	121	A	G
SEQ ID NO:4805	SsSNP2006_4824	121	A	C
SEQ ID NO:4806	SsSNP2006_4825	121	A	G
SEQ ID NO:4807	SsSNP2006_4826	121	A	G
SEQ ID NO:4808	SsSNP2006_4827	121	A	G
SEQ ID NO:4809	SsSNP2006_4828	121	A	G
SEQ ID NO:4810	SsSNP2006_4829	121	A	C
SEQ ID NO:4811	SsSNP2006_4830	121	C	G
SEQ ID NO:4812	SsSNP2006_4831	121	A	C
SEQ ID NO:4813	SsSNP2006_4832	121	A	C
SEQ ID NO:4814	SsSNP2006_4833	121	A	G
SEQ ID NO:4815	SsSNP2006_4834	121	A	C
SEQ ID NO:4816	SsSNP2006_4835	121	A	G
SEQ ID NO:4817	SsSNP2006_4836	121	A	C

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4818	SsSNP2006_4837	121	A	G
SEQ ID NO:4819	SsSNP2006_4838	121	A	C
SEQ ID NO:4820	SsSNP2006_4839	121	A	G
SEQ ID NO:4821	SsSNP2006_4840	121	A	T
SEQ ID NO:4822	SsSNP2006_4841	121	A	G
SEQ ID NO:4823	SsSNP2006_4842	121	A	C
SEQ ID NO:4824	SsSNP2006_4843	121	A	G
SEQ ID NO:4825	SsSNP2006_4844	121	A	C
SEQ ID NO:4826	SsSNP2006_4845	121	A	G
SEQ ID NO:4827	SsSNP2006_4846	121	A	G
SEQ ID NO:4828	SsSNP2006_4847	121	A	G
SEQ ID NO:4829	SsSNP2006_4848	121	A	G
SEQ ID NO:4830	SsSNP2006_4849	121	A	G
SEQ ID NO:4831	SsSNP2006_4850	121	A	G
SEQ ID NO:4832	SsSNP2006_4851	121	A	G
SEQ ID NO:4833	SsSNP2006_4852	121	A	G
SEQ ID NO:4834	SsSNP2006_4853	121	A	G
SEQ ID NO:4835	SsSNP2006_4854	121	A	G
SEQ ID NO:4836	SsSNP2006_4855	121	A	G
SEQ ID NO:4837	SsSNP2006_4856	121	A	G
SEQ ID NO:4838	SsSNP2006_4857	121	A	G
SEQ ID NO:4839	SsSNP2006_4858	121	A	G
SEQ ID NO:4840	SsSNP2006_4859	121	A	G
SEQ ID NO:4841	SsSNP2006_4860	121	C	G
SEQ ID NO:4842	SsSNP2006_4861	121	A	G
SEQ ID NO:4843	SsSNP2006_4862	121	A	G
SEQ ID NO:4844	SsSNP2006_4863	121	A	T
SEQ ID NO:4845	SsSNP2006_4864	121	A	C
SEQ ID NO:4846	SsSNP2006_4865	121	A	G
SEQ ID NO:4847	SsSNP2006_4866	121	A	T
SEQ ID NO:4848	SsSNP2006_4867	121	A	G
SEQ ID NO:4849	SsSNP2006_4868	121	A	G
SEQ ID NO:4850	SsSNP2006_4869	121	A	G
SEQ ID NO:4851	SsSNP2006_4870	121	A	T
SEQ ID NO:4852	SsSNP2006_4871	121	A	G
SEQ ID NO:4853	SsSNP2006_4872	121	A	G
SEQ ID NO:4854	SsSNP2006_4873	121	A	G
SEQ ID NO:4855	SsSNP2006_4874	121	A	C
SEQ ID NO:4856	SsSNP2006_4875	121	A	C
SEQ ID NO:4857	SsSNP2006_4876	121	A	G
SEQ ID NO:4858	SsSNP2006_4877	121	C	G
SEQ ID NO:4859	SsSNP2006_4878	121	A	G
SEQ ID NO:4860	SsSNP2006_4879	121	A	G
SEQ ID NO:4861	SsSNP2006_4880	121	A	T
SEQ ID NO:4862	SsSNP2006_4881	121	C	G
SEQ ID NO:4863	SsSNP2006_4882	121	A	C
SEQ ID NO:4864	SsSNP2006_4883	121	A	G
SEQ ID NO:4865	SsSNP2006_4884	121	A	G
SEQ ID NO:4866	SsSNP2006_4885	121	A	G
SEQ ID NO:4867	SsSNP2006_4886	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4868	SsSNP2006_4887	121	A	G
SEQ ID NO:4869	SsSNP2006_4888	121	A	G
SEQ ID NO:4870	SsSNP2006_4889	121	A	G
SEQ ID NO:4871	SsSNP2006_4890	121	A	G
SEQ ID NO:4872	SsSNP2006_4891	121	A	G
SEQ ID NO:4873	SsSNP2006_4892	121	A	G
SEQ ID NO:4874	SsSNP2006_4893	121	A	G
SEQ ID NO:4875	SsSNP2006_4894	121	A	C
SEQ ID NO:4876	SsSNP2006_4895	121	A	G
SEQ ID NO:4877	SsSNP2006_4896	121	A	G
SEQ ID NO:4878	SsSNP2006_4897	121	A	G
SEQ ID NO:4879	SsSNP2006_4898	121	A	G
SEQ ID NO:4880	SsSNP2006_4899	121	A	G
SEQ ID NO:4881	SsSNP2006_4900	121	A	G
SEQ ID NO:4882	SsSNP2006_4901	121	A	G
SEQ ID NO:4883	SsSNP2006_4902	121	A	G
SEQ ID NO:4884	SsSNP2006_4903	121	A	T
SEQ ID NO:4885	SsSNP2006_4904	121	A	G
SEQ ID NO:4886	SsSNP2006_4905	121	A	G
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SEQ ID NO:4892	SsSNP2006_4911	121	A	G
SEQ ID NO:4893	SsSNP2006_4912	121	A	C
SEQ ID NO:4894	SsSNP2006_4913	121	A	G
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SEQ ID NO:4900	SsSNP2006_4919	121	A	G
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SEQ ID NO:4903	SsSNP2006_4922	121	A	T
SEQ ID NO:4904	SsSNP2006_4923	121	A	G
SEQ ID NO:4905	SsSNP2006_4924	121	A	G
SEQ ID NO:4906	SsSNP2006_4925	121	A	G
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SEQ ID NO:4914	SsSNP2006_4933	121	A	G
SEQ ID NO:4915	SsSNP2006_4934	121	A	G
SEQ ID NO:4916	SsSNP2006_4935	121	A	T
SEQ ID NO:4917	SsSNP2006_4936	121	C	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:4918	SsSNP2006_4937	121	A	G
SEQ ID NO:4919	SsSNP2006_4938	121	A	G
SEQ ID NO:4920	SsSNP2006_4939	121	A	G
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SEQ ID NO:4924	SsSNP2006_4943	121	A	G
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SEQ ID NO:4940	SsSNP2006_4959	121	A	G
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SEQ ID NO:4943	SsSNP2006_4962	121	A	G
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SEQ ID NO:4945	SsSNP2006_4964	121	A	G
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SEQ ID NO:4947	SsSNP2006_4966	97	A	C
SEQ ID NO:4948	SsSNP2006_4967	121	A	C
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SEQ ID NO:4950	SsSNP2006_4969	121	A	G
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SEQ ID NO:4955	SsSNP2006_4974	121	A	G
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SEQ ID NO:4965	SsSNP2006_4984	121	A	T
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SEQ ID NO:4967	SsSNP2006_4986	121	A	C

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SEQ ID NO:4985	SsSNP2006_5004	121	A	G
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SEQ ID NO:4998	SsSNP2006_5017	121	A	G
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SEQ ID NO:5014	SsSNP2006_5033	121	A	T
SEQ ID NO:5015	SsSNP2006_5034	121	A	G
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SEQ ID NO:5017	SsSNP2006_5036	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
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SEQ ID NO:5065	SsSNP2006_5084	121	A	G
SEQ ID NO:5066	SsSNP2006_5085	121	A	G
SEQ ID NO:5067	SsSNP2006_5086	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
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SEQ ID NO:5069	SsSNP2006_5088	121	A	G
SEQ ID NO:5070	SsSNP2006_5089	121	A	C
SEQ ID NO:5071	SsSNP2006_5090	121	A	G
SEQ ID NO:5072	SsSNP2006_5091	121	A	G
SEQ ID NO:5073	SsSNP2006_5092	121	A	G
SEQ ID NO:5074	SsSNP2006_5093	121	A	C
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SEQ ID NO:5076	SsSNP2006_5095	121	A	G
SEQ ID NO:5077	SsSNP2006_5096	121	A	G
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SEQ ID NO:5091	SsSNP2006_5110	121	A	G
SEQ ID NO:5092	SsSNP2006_5111	121	A	C
SEQ ID NO:5093	SsSNP2006_5112	121	A	T
SEQ ID NO:5094	SsSNP2006_5113	121	A	C
SEQ ID NO:5095	SsSNP2006_5114	121	A	G
SEQ ID NO:5096	SsSNP2006_5115	121	A	C
SEQ ID NO:5097	SsSNP2006_5116	121	A	C
SEQ ID NO:5098	SsSNP2006_5117	121	A	G
SEQ ID NO:5099	SsSNP2006_5118	121	A	G
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SEQ ID NO:5101	SsSNP2006_5120	121	A	C
SEQ ID NO:5102	SsSNP2006_5121	121	A	G
SEQ ID NO:5103	SsSNP2006_5122	121	A	G
SEQ ID NO:5104	SsSNP2006_5123	121	C	G
SEQ ID NO:5105	SsSNP2006_5124	121	A	G
SEQ ID NO:5106	SsSNP2006_5125	121	A	G
SEQ ID NO:5107	SsSNP2006_5126	121	A	G
SEQ ID NO:5108	SsSNP2006_5127	121	A	G
SEQ ID NO:5109	SsSNP2006_5128	121	A	G
SEQ ID NO:5110	SsSNP2006_5129	121	A	G
SEQ ID NO:5111	SsSNP2006_5130	121	A	C
SEQ ID NO:5112	SsSNP2006_5131	121	A	G
SEQ ID NO:5113	SsSNP2006_5132	121	A	C
SEQ ID NO:5114	SsSNP2006_5133	121	A	T
SEQ ID NO:5115	SsSNP2006_5134	121	A	G
SEQ ID NO:5116	SsSNP2006_5135	121	A	G
SEQ ID NO:5117	SsSNP2006_5136	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:5118	SsSNP2006_5137	121	A	G
SEQ ID NO:5119	SsSNP2006_5138	121	A	C
SEQ ID NO:5120	SsSNP2006_5139	121	A	G
SEQ ID NO:5121	SsSNP2006_5140	121	A	G
SEQ ID NO:5122	SsSNP2006_5141	121	A	G
SEQ ID NO:5123	SsSNP2006_5142	121	A	G
SEQ ID NO:5124	SsSNP2006_5143	121	A	G
SEQ ID NO:5125	SsSNP2006_5144	121	A	G
SEQ ID NO:5126	SsSNP2006_5145	121	A	G
SEQ ID NO:5127	SsSNP2006_5146	121	A	G
SEQ ID NO:5128	SsSNP2006_5147	121	A	G
SEQ ID NO:5129	SsSNP2006_5148	121	A	G
SEQ ID NO:5130	SsSNP2006_5149	121	A	G
SEQ ID NO:5131	SsSNP2006_5150	121	A	G
SEQ ID NO:5132	SsSNP2006_5151	121	A	G
SEQ ID NO:5133	SsSNP2006_5152	121	A	G
SEQ ID NO:5134	SsSNP2006_5153	121	C	G
SEQ ID NO:5135	SsSNP2006_5154	121	A	C
SEQ ID NO:5136	SsSNP2006_5155	121	A	G
SEQ ID NO:5137	SsSNP2006_5156	121	A	G
SEQ ID NO:5138	SsSNP2006_5157	121	A	G
SEQ ID NO:5139	SsSNP2006_5158	121	A	T
SEQ ID NO:5140	SsSNP2006_5159	121	A	C
SEQ ID NO:5141	SsSNP2006_5160	121	A	G
SEQ ID NO:5142	SsSNP2006_5161	121	A	G
SEQ ID NO:5143	SsSNP2006_5162	121	A	T
SEQ ID NO:5144	SsSNP2006_5163	121	A	G
SEQ ID NO:5145	SsSNP2006_5164	121	A	G
SEQ ID NO:5146	SsSNP2006_5165	121	A	T
SEQ ID NO:5147	SsSNP2006_5166	121	A	G
SEQ ID NO:5148	SsSNP2006_5167	121	A	G
SEQ ID NO:5149	SsSNP2006_5168	121	A	G
SEQ ID NO:5150	SsSNP2006_5169	121	A	G
SEQ ID NO:5151	SsSNP2006_5170	121	A	G
SEQ ID NO:5152	SsSNP2006_5171	121	A	G
SEQ ID NO:5153	SsSNP2006_5172	121	A	G
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SEQ ID NO:5156	SsSNP2006_5175	121	A	T
SEQ ID NO:5157	SsSNP2006_5176	121	C	G
SEQ ID NO:5158	SsSNP2006_5177	121	A	G
SEQ ID NO:5159	SsSNP2006_5178	121	A	T
SEQ ID NO:5160	SsSNP2006_5179	121	A	C
SEQ ID NO:5161	SsSNP2006_5180	121	A	G
SEQ ID NO:5162	SsSNP2006_5181	121	A	G
SEQ ID NO:5163	SsSNP2006_5182	115	A	G
SEQ ID NO:5164	SsSNP2006_5183	121	A	G
SEQ ID NO:5165	SsSNP2006_5184	121	A	T
SEQ ID NO:5166	SsSNP2006_5185	121	A	G
SEQ ID NO:5167	SsSNP2006_5186	121	A	G

SEQ ID NO	SNP ID NO	SNP POSITION	SNP ALLELE 1	SNP ALLELE 2
SEQ ID NO:5168	SsSNP2006_5187	121	A	G
SEQ ID NO:5169	SsSNP2006_5188	104	A	C
SEQ ID NO:5170	SsSNP2006_5189	121	A	G
SEQ ID NO:5171	SsSNP2006_5190	121	A	G
SEQ ID NO:5172	SsSNP2006_5191	121	A	G
SEQ ID NO:5173	SsSNP2006_5192	121	A	G
SEQ ID NO:5174	SsSNP2006_5193	121	C	G
SEQ ID NO:5175	SsSNP2006_5194	121	A	G
SEQ ID NO:5176	SsSNP2006_5195	121	A	G
SEQ ID NO:5177	SsSNP2006_5196	121	A	G
SEQ ID NO:5178	SsSNP2006_5197	121	A	G
SEQ ID NO:5179	SsSNP2006_5198	121	A	G
SEQ ID NO:5180	SsSNP2006_5199	121	A	G
SEQ ID NO:5181	SsSNP2006_5200	121	A	G
SEQ ID NO:5182	SsSNP2006_5201	121	A	G
SEQ ID NO:5183	SsSNP2006_5202	121	A	G
SEQ ID NO:5184	SsSNP2006_5203	121	A	G
SEQ ID NO:5185	SsSNP2006_5204	121	A	G
SEQ ID NO:5186	SsSNP2006_5205	121	A	C
SEQ ID NO:5187	SsSNP2006_5206	111	A	G
SEQ ID NO:5188	SsSNP2006_5207	121	A	G
SEQ ID NO:5189	SsSNP2006_5208	121	A	G
SEQ ID NO:5190	SsSNP2006_5209	121	A	G
SEQ ID NO:5191	SsSNP2006_5210	121	A	G
SEQ ID NO:5192	SsSNP2006_5211	121	A	G
SEQ ID NO:5193	SsSNP2006_5212	121	A	G
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SEQ ID NO:5195	SsSNP2006_5214	121	A	G
SEQ ID NO:5196	SsSNP2006_5215	121	A	T
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SEQ ID NO:5198	SsSNP2006_5217	121	A	G
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SEQ ID NO:5201	SsSNP2006_5220	121	A	G
SEQ ID NO:5202	SsSNP2006_5221	72	A	G
SEQ ID NO:5203	SsSNP2006_5222	121	A	G
SEQ ID NO:5204	SsSNP2006_5223	121	A	C
SEQ ID NO:5205	SsSNP2006_5224	121	A	G
SEQ ID NO:5206	SsSNP2006_5225	121	A	G
SEQ ID NO:5207	SsSNP2006_5226	121	A	T
SEQ ID NO:5208	SsSNP2006_5227	121	A	G
SEQ ID NO:5209	SsSNP2006_5228	121	A	G
SEQ ID NO:5210	SsSNP2006_5229	121	A	G
SEQ ID NO:5211	SsSNP2006_5230	121	A	G

What is claimed is:

1. A method of evaluating an animal's genotype at one or more genomic locus/loci, the method comprising determining the animal's genotype for at least one locus; comprising a single nucleotide polymorphism (SNP) having at least two allelic variants; wherein at least one SNP is selected from the SNPs described in Tables 1 and 2.

2. The method of claim 1 wherein the animal's genotype is evaluated at 10 or more positions that contain SNPs selected from the SNPs described in Tables 1 and 2.

3. The method of claim 1 wherein the animal's genotype is evaluated at 50 or more positions that contain SNPs selected from the SNPs described in Tables 1 and 2.

4. The method of claim 1 wherein the animal's genotype is evaluated at 100 or more positions that contain SNPs selected from the SNPs described in Tables 1 and 2.

5. The method of claim 1 wherein the animal's genotype is evaluated at 200 or more positions that contain SNPs selected from the SNPs described in Tables 1 and 2.

6. A method for allocating animals for use comprising:
   a. determining at least one animal's genotype at one or locus/loci; wherein the at least one locus contains a single nucleotide polymorphism (SNP), having at least two allelic variants; and wherein at least one SNP is selected from the SNPs described in Tables 1 and 2;
   b. analyzing the determined genotype of at least one evaluated animal at one or more SNPs selected from the SNPs described in Tables 1 and 2 to determine which allelic variant is present;
   c. allocating the animal for use according to its determined genotype.

7. The method of claim 6 wherein at least one animal's genotype is evaluated at 10 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

8. The method of claim 6 wherein at least one animal's genotype is evaluated at 50 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

9. The method of claim 6 wherein at least one animal's genotype is evaluated at 100 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

10. The method of claim 6 wherein at least one animal's genotype is evaluated at 200 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

11. A method for selecting a potential parent animal for breeding:
    a. determining at least one potential parent animal's genotype at one or more genomic locus/loci; wherein at least one locus contains a single nucleotide polymorphism (SNP) that has at least two allelic variants, and wherein at least one SNP is selected from the SNPs described in Tables 1 and 2;
    b. analyzing the determined genotype of at least one evaluated animal for one or more SNPs selected from the SNPs described in Tables 1 and 2 to determine which allele is present;
    c. correlating the identified allele with a phenotype;
    d. allocating at least one animal for breeding use based on its genotype.

12 The method of claim 11 wherein at least one potential parent animal's genotype is evaluated at 10 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

13. The method of claim 11 wherein at least one potential parent animal's genotype is evaluated at 50 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

14. The method of claim 11 wherein at least one potential parent animal's genotype is evaluated at 100 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

15. The method of claim 11 wherein at least one potential parent animal's genotype is evaluated at 200 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

16. A method of producing progeny animals comprising:
    a) identifying at least one animal that has been allocating for breeding in accordance with the method of claim 11;
    b) producing progeny from the allocated animal through a process comprising:
        i) natural breeding;
        ii) artificial insemination;
        iii) *in vitro* fertilization; and/or
        ii) collecting semen/spermatozoa or at least one ovum from the animal and contacting it, respectively, with ovum/ova or semen/spermatozoa from a second animal to produce a conceptus by any means.

17. The method of claim 16 comprising producing progeny through natural breeding.

18. The method of claim 16 comprising producing offspring through artificial insemination, embryo transfer, and/or *in vitro* fertilization.

19. The method of claim 16 wherein at least one potential parent animal's genotype is evaluated at 10 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

20. The method of claim 16 wherein at least one potential parent animal's genotype is evaluated at 50 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

21. The method of claim 16 wherein at least one potential parent animal's genotype is evaluated at 100 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

22. The method of claim 16 wherein at least one potential parent animal's genotype is evaluated at 200 or more loci that contain SNPs selected from the SNPs described in Tables 1 and 2.

23. An isolated nucleic acid comprising at least 17 contiguous nucleotides from an allele of a SNP selected from the group of SNPs described in Tables 1 and 2.

24. An isolated nucleic acid comprising 100 or more contiguous nucleotides with at least 90 percent identity to an allele of a SNP selected from the group of SNPs described in Tables 1 and 2.

25. A diagnostic kit for determining the presence of at least one allele of at least one single nucleotide polymorphism (SNP) having at least two variants; and wherein the SNP is selected from the group of SNPs described in Tables 1 and 2.

26. The kit of claim 25 comprising nucleic acid oligonucleotide primers useful for the polymerase chain reaction-based amplification of at least one allele of at least one SNP.

27. The kit of claim 25 comprising a purified nucleic acid fragment that specifically hybridizes with at least one allele of a SNP under stringent hybridization conditions.

28. A nucleic acid array for determining which allele of at least one of the SNPs described by Tables 1 and 2 are present in a sample; wherein the array comprises one or more nucleic acid sequences capable of hybridizing, under stringent conditions, with at least one variant of at least one SNP selected from the SNPs described in Tables 1 and 2.

29. The array of claim 28 wherein the array is capable of determining which allele is present for each of 10 or more SNPs selected from the group consisting of the SNPs described by Tables 1 and 2.

30. The array of claim 28 wherein the array is capable of determining which allele is present for each of 25 or more SNPs selected from the group consisting of the SNPs described by Tables 1 and 2.

31. The array of claim 28 wherein the array is capable of determining which allele is present for each of 50 or more SNPs selected from the group consisting of the SNPs described by Tables 1 and 2.

32. The array of claim 28 wherein the array is capable of determining which allele is present for each of 100 or more SNPs selected from the group consisting of the SNPs described by Tables 1 and 2.

33. A method of identifying at least one phenotypic trait associated with quantitative trait locus (QTL), the method comprising:

a. measuring one or more phenotypic traits in a plurality of animals;

b. determining the animal's genotype for at least one locus; wherein the locus comprises at least one a single nucleotide polymorphism (SNP) having at least two variants, and wherein the SNP is selected from the group of SNPs described in Tables 1 and 2.

c. statistically correlating the association of at least one phenotypic trait with the presence of an allele of at least one SNP selected from the group of SNPs described in Tables 1 and 2; wherein the presence of a different allele for that SNP has a different association for the phenotypic trait.

34. A method of identifying a genetic marker in allelic association with at least one SNP selected from the group of SNPs described in Tables 1 and 2, the method comprising:

a) identifying a genetic marker B_1 suspected of being in allelic association with a marker A_1 selected from the group of SNPs described in Tables 1 and 2;

b) determining whether A_1 and B_1 are in allelic association;

wherein allelic association exists if $r^2>0.2$ for Equation 1 for a population sample of at least 100 animals and wherein Equation 1 is:

$$r^2 = \frac{[f(A_1B_1) - f(A_1)f(B_1)]^2}{f(A_1)(1-f(A_1))(f(B_1)(1-f(B_1))} \qquad \text{[Equation 1]}$$

and wherein A_1 represents an allele of a SNP described in Tables 1 and 2; B_1 represents a genetic marker at another locus; $f(A_1B_1)$ denotes frequency of having both A_1 and B_1; $f(A_1)$ is the frequency of A_1 in the population; and $f(B_1)$ is the frequency of B_1 in a population.

35. The method of claim 34 wherein the genetic marker B_1 is a SNP.

36. The method of claim 34 wherein the genetic marker identified is in linkage disequilibrium with at least one SNP selected from the group of SNPs described in Tables 1 and 2.

37. The method of claim 34 wherein B_1 is a causal mutation underlying a quantitative trait locus

38. The method of claim 37 wherein $r^2 > 0.5$.

39. The method of claim 37 wherein $r^2 > 0.9$.