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(71) Demandeur/Applicant:
DEKA BIOSCIENCES, INC., US
(72) Inventeur/Inventor:
MUMM, JOHN, US
(74) Agent: BERESKIN & PARR LLP/S.E.N.C.R.L., S.R.L.

(54) Titre : METHODE D'UTILISATION DE MARQUEURS GENETIQUES, DE SNP ET/OU D'INDEL POUR DETERMINER LA REACTIVITE A UN TRAITEMENT PAR IL-10
(54) Title: METHOD OF USING GENETIC MARKERS, SNPS AND/OR INDELS TO DETERMINE RESPONSIVENESS TO IL-10 TREATMENT

(57) Abrégé/Abstract:

The application relates to the discovery of novel gene expression profiles and/or single nucleotide polymorphisms (SNP) and/or insertions or deletions of bases (INDEL) profiles that correlate with a subject's positive receptiveness to Interleukin 10 (IL-10) or IL-10 based agent treatments. The application also relates to methods of treating patients with an IL-10 or IL-10 based agent treatment by screening, examining, or determine patients possessing a gene expression profile and/or SNP and/or INDEL profile most receptive to the treatment.



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Abstract:

The application relates to the discovery of novel gene expression profiles and/or single nucleotide polymorphisms (SNP) and/or insertions or deletions of bases (INDEL) profiles that correlate with a subject's positive receptiveness to Interleukin 10 (IL-10) or IL-10 based agent treatments. The application also relates to methods of treating patients with an IL-10 or IL-10 based agent treatment by screening, examining, or determine patients possessing a gene expression profile and/or SNP and/or INDEL profile most receptive to the treatment.

METHOD OF USING GENETIC MARKERS, SNPS AND/OR INDELS TO DETERMINE RESPONSIVENESS TO IL-10 TREATMENT

The various embodiments described in this application relate to the discovery of novel gene expression profiles and single nucleotide polymorphisms (SNP) and/or insertions or deletions of bases (INDEL) profiles that correlate with a subject's positive receptiveness to Interleukin 10 (IL-10) or IL-10 based agent treatments. Other aspects described in this application include methods of identifying the gene profiles or expression profiles and, SNP and/or INDEL profile(s) indicative of a subject's responsiveness to IL-10 or an IL-10 based agent, as well as methods of screening for subjects that are more receptive to IL-10 or IL-10 based agent treatment or those subjects that are less responsive or receptive to IL-10 or IL-10 based agent treatment. This application also describes methods of screening a subject suffering from a cancer indication or suffering from inflammatory disease or disorder and determining, based on certain gene profiles or expression profiles, and SNP and/or INDEL profiles, whether the subject will be receptive to IL-10 or IL-10 based agent treatment. Finally, this application describes methods of treating patients with cancer or patients with inflammatory disease comprising first examining, determining, or screening a subject for responsiveness or receptiveness to treatment with an IL-10 or IL-10 based agent and if determined to be responsive or receptive to treatment administering to the patient an IL-10 or IL-10 based agent.

BACKGROUND

IL-10 is a non-covalent homo-dimeric cytokine with structural similarities to Interferon (IFN). The IL-10 receptor consists of two molecules of the IL10 receptor 1 (IL10R1) and two molecules of the IL-10 receptor 2 (IL10R2). Moore, 2001. The IL-10 receptor is expressed on the surface of most hematopoietic cells and most highly expressed on monocytes/macrophages and T-cells.

While IL-10 has been reported to be both an immunosuppressive (Schreiber, 2000) and immunostimulatory cytokine (Mumm, 2011), clinical evaluation of IL-10 treatment of Crohn's patients resulted in an inverse dose response (Fedarak, 2000; Schreiber, 2000), whereas treatment of cancer patients with PEGylated IL-10 resulted in dose titratable potent anti-tumor responses. Naing, 2018.

PEGylated IL-10 anti-tumor response requires endogenous CD8+ T cells and IFN Mumm, 2011. Treatment of tumor bearing animals with PEGylated IL-10 results in increased intra-tumor CD8+ T cells and increased IFN on a per cell basis.

Due to the pleiotropic effects of IL-10, variants of the EBV IL-10 homologue were designed that are significantly reduced in their ability to stimulate IFN secretion from activated CD8+ T cells while still retaining their suppressive effects on monocyte/macrophage secretion of pro-inflammatory cytokines. This was accomplished by evaluating 3 differential affinity variants of the EBV IL-10 homologue, termed DV05, DV06, and DV07. U.S. Patent 10,858,412. DV06 exhibits the least CD8+ T cell stimulatory effects alone when fused with the scaffolding diabody technology. *Id.*

Clinical investigators originally discovered that treatment of Crohn's patients with IL-10 resulted in approximately 24% remission of Crohn's symptoms and inflammation at a dose of 5 micrograms/kg daily dosing. Fedorak, 2000 at Fig. 1a. Higher doses of 10 and 20 micrograms/kg daily resulted in a reduction (from 24%) of patients experiencing remission. All doses (1, 5, 10, and 20 micrograms/kg daily) resulted in the suppression of TNF secretion from peripheral patient blood treated *in vitro* with lipopolysaccharide (LPS). Tilg, 2002 at Fig. 1b. Further investigation revealed that peripheral blood from patients treated with 10 and 20 micrograms/kg of IL-10 (daily) secreted higher neopterin (data not shown) and IFN when stimulated with phytohemagglutinin (PHA). *Id.* at Fig. 1c. Similar to the reports that illustrate IL-10's capacity to induce adaptive anti-tumor immunity through induction of IFN *via* activation of CD8+ T cells (Mumm, 2011; Naing, 2018), these data collectively suggest that at higher concentrations, (10 and 20 micrograms/kg) IL-10's predominate immunological effect is stimulatory, rather than suppressive. The data suggests that a differential response to IL-10 of the monocytes/macrophages and CD8+ T cells underlies these different diseases. IL-10's anti-inflammatory response has been reported to depend on regulating monocytes/macrophages (Malefyt, 1991), whereas the anti-tumor response induced by IL-10 has been shown to require both CD8+ T cells and IFN , (Mumm, 2011).

Using previously described *in vitro* monocyte/macrophage (similar to one used by, for example, Malefyt, 1991) and T-cell response assays (Chan, 2015) normal donor monocyte/macrophage and T cell responses to IL-10 were assessed. In monocytes/macrophages, IL-10 suppresses the secretion of pro-inflammatory cytokines (IL-1 , TNF , and IL-6) in response to stimulation with LPS. The data indicates that concentrations as low as 0.1 ng/mL significantly inhibit monocyte/macrophage responses to pro-inflammatory stimuli. Figure 1. Administration of IL-10 to donor peripheral blood CD8+ T cells induced IFN . Figure 2. While 0.1 - 1 ng/mL IL-10 suppresses macrophage/monocyte responses, CD8+ T cells are stimulated to secrete more IFN at concentrations higher than 10 ng/mL. The inventor sought to determine whether patients can be classified/stratified based on their response to IL-10, the monocyte/macrophage and T-cell response assays were used to assess both suppressive and stimulatory responses to IL-10 and to determine whether all human monocytes/macrophages and T cells respond to IL-10 in the same manner. The inventor has surprisingly found that there are differential responses in monocytes/macrophages and CD8+ T-cells to IL-10. Further, the inventor has found that the magnitude of response to IL-10 is based on a combination of donor or patient genetic factors that result in differential expression profiles.

SUMMARY OF PREFERRED EMBODIMENTS

This application describes gene expression profiles and one or more single nucleotide polymorphisms (SNP) and/or insertion or deletion of bases (INDEL) profiles that identifies a subject whose CD8+ T cells are more receptive to an IL-10 or IL-10 based agent treatment. Also described in

this application are methods of identifying subjects or individuals, such as those suffering from inflammatory disease, who are more likely to respond to IL-10 or IL-10 based agent reconstititional treatment. In other aspects, the application relates to methods of identifying gene expression profiles and/or SNP and/or INDEL profiles in subjects who have monocytes/macrophages that phenotypically exhibit low induction or secretion of IL-10 (in response to a pro-inflammatory stimulus) and high response to IL-10 (by way of reducing TNF- α induction or secretion). In other aspects, the gene expression profiles and/or SNP and/or INDEL profiles correlate with a phenotype where a subject's monocytes/macrophages have low production or secretion of IL-10 (in response to a pro-inflammatory stimulus) and increased reduction of TNF- α secretion. Finally, this application describes methods of treating diseases or disorders with IL-10 or an IL-10 based agent by screening for certain gene expression profiles and/or SNP and/or INDEL profiles in subjects who are identified as positive IL-10 or IL-10 agent responders and administering a therapeutically effective amount of an IL-10 or an IL-10 based agent.

Accordingly, an embodiment of the present application includes a method of identifying a gene expression profiles and/or genotyping SNP and/or INDEL profiles to obtain a profile indicative of responsiveness to treatment with an IL-10 or an IL-10 based agent and/or combination of IL-10 with EPO, TGF-beta, basic FGF, FGF, PDGF, IL-4, IL-11, or IL-13, the method comprising exposing a cellular sample from a patient to LPS or a derivative thereof or other Toll-like receptor agonists (e.g., CpG) to elicit IL-10 induction or secretion; and/or measuring the levels of TNF- α production and the levels of IL-10 induction or secretion from the cellular sample; selecting the patient with the sample exhibiting a dual phenotype of (1) high TNF- α reduction (or decreased production of TNF- α) in response to IL-10, IL-10 derivative, or an IL-10 based agent stimulation and (2) low IL-10 induction or secretion, in response to LPS stimulation; and sequencing the entire genome from the patient exhibiting the dual phenotype for the presence of a gene expression profile and/or a SNP and/or INDEL profile.

An additional embodiment of the present application includes a method of identifying a gene expression profile and/or genotyping a SNP and/or INDEL profile to obtain a profile indicative of T cell responsiveness to treatment with IL-10, IL-10 derivatives or an IL-10 based agent or a combination of IL-10, IL-10 derivatives or an IL-10 based agent with IL-2, IL-7, IL-12, IL-15, IL-26, IL-27, IL-28, IL-29, IFN- γ based agents, the method comprising exposing a cellular sample from a patient to the above agents and a soluble anti-CD3 at a range of concentrations for a period of time sufficient to illicit the induction of secreted IFN- γ . Those patient samples associated with the phenotype of high IFN- γ induction from CD8+ T cells in response to IL-10, IL-10 derivatives, or an IL-10 based agent will undergo genetic profiling to obtain gene expression profile and/or SNP and/or INDEL profile. The gene expression profile and SNP and/or INDEL profile associated with high IFN- γ induction from CD8+ T cells in response to IL-10 will be utilized to select patients for treatment with and IL-10, IL-10 derivatives, or IL-10 based agent and/or combination therapy.

Another embodiment of the present application includes determining whether a subject is likely or less likely to respond to treatment with IL-10, IL-10 derivative thereof, or IL-10 based agent comprising sequencing nucleotides from a patient for a gene expression profile, and SNP and/or INDEL profile that results in an indication of reduced TNF- α production and low IL-10 induction or secretion, wherein the reduced TNF- α production is in response to an IL-10 based stimulus and low IL-10 induction or secretion in response to a proinflammatory stimulus.

Other embodiments of the present application include screening a subject for the presence of a gene expression profile and SNP and/or INDEL profile to determine whether the subject is a candidate receptive to receiving IL-10, IL-10 derivative, or IL-10 based agent treatment. Such treatment is for the intended purpose of treating an inflammatory disease, such as but not limited inflammatory bowel disease, Crohn's disease, or ulcerative colitis. Other treatments include any disease or disorder wherein the reduction of monocytes/macrophage inhibition or stimulation is needed.

In another embodiment, the application relates to a method of genotyping a SNP or INDEL to obtain a profile indicative of patient receptiveness to treatment with IL-10, IL-10 derivative, or an IL-10 based agent comprising contacting activated CD8⁺ T cells obtained from the patient with an amount of IL-10 or an IL-10 based agent to induce secretion of IFN- γ ; measuring the level of IFN- γ secretion; selecting the patient sample exhibiting a phenotype of high and/or medium IFN- γ secretion by CD8⁺ T cells; and sequencing the entire genome from the patient exhibiting the phenotype for the presence of a SNP and/or INDEL profile.

An embodiment of the present application relates to specific genetic markers that correlate with patient, preferably inflammatory disease patients, responsiveness to IL-10. In other embodiments, the present application relates to specific expression profile, and/or SNP and/or INDEL profile(s) that may be useful in identifying select patients who will be more responsive to receiving IL-10 or IL-10 based agent treatments.

In yet another embodiment, the present application relates to a method for treating a patient suffering from an disease or disorder alleviated by IL-10 or an IL-10 agent comprising genetically profiling a sample obtained from a diseased patient for a SNP / INDEL profile associated with responsiveness to IL-10 or IL-10 based treatment. In another embodiment, the method of treating includes selecting an expression profile and/or SNP and/or INDEL profile associated with high TNF- α reduction in response to stimulation from IL-10, an IL-10 derivative, or an IL-10 agent, and low IL-10 induction in response to LPS stimulation; selecting a patient possessing the expression profile, and/or SNP and/or INDEL profile; and administering to the patient a therapeutically effective amount of an IL-10 or derivative thereof, an IL-10 diabody, or an IL-10 mimetic.

In yet another embodiment, the present application relates to a method of treating an inflammatory disease comprising administering to a patient in need thereof a therapeutically effective amount of an IL-10, an IL-10 derivative, an IL-10 diabody, an IL-10 minibody, or an IL-10 agent,

wherein the patient possess an expression profile, and/or SNP and/or INDEL profile associated with low IL-10 production in response to a proinflammatory stimulus and high responsiveness to IL-10. In a preferred embodiment, the inflammatory disease or disorder is inflammatory bowel disease (IBD), Crohn's disease, and/or ulcerative colitis.

In yet another embodiment, the present application relates to a method of treating cancer comprising administering to a patient in need thereof a therapeutically effective amount of an IL-10 or an IL-10 based agent, wherein the patient possesses a SNP / INDEL profile based on a gene and protein expression profile provided in Table 1.

In still yet another embodiment, the present application relates to a method of determining whether a subject is likely or less likely to respond to treatment with IL-10 or an IL-10 based agent comprising sequencing a patient cellular sample for a SNP or INDEL profile indicative of high and/or intermediate and/or low IFN- γ secretion by CD8+ T cells. In a preferred aspect, a profile associated with high and/or intermediate IFN- γ secretion by CD8+ T cells (i.e., high and/or intermediate CD8+ T cell response) is indicative of successful treatment of cancer. In another aspect, a profile associated with low and/or intermediate IFN- γ secretion by CD8+ T cells (i.e., low and/or intermediate CD8+ T cell response) is indicative of successful treatment of autoimmune diseases or disorders.

BRIEF DESCRIPTION OF DRAWINGS

Figure 1 represents the results of exposing varying doses (0.1, 1, 10, and 100 ng/ml) of IL-10 on monocytes/macrophages and measuring the secretion levels of pro-inflammatory cytokines.

Figure 2 represents the results of exposing varying doses (0.1, 1, 10, and 100 ng/ml) of IL-10 on CD8+ T cells and measuring the secretion levels of IFN- γ .

Figure 3 are schematic representations of various IL-10 variants, such as variants made in EBV IL-10. Figure 1A (DV05) is an IL-10 variant comprising a single point mutation at amino acid position 31 (V31L). Figure 1B (DV06) is an IL-10 variant comprising a single point mutation at amino acid position 75 (A75I). Figure 1C (DV07) is an IL-10 variant comprising a two point mutations at amino acid positions 31 and 75 (V31L and A75I). Figure 3D assays monocyte/macrophage response to various forms of IL-10, including wild type human IL-10, EBV-IL-10, DV05, DV06, and DV07. All forms, including the IL-10 variants—DV05, DV06, DV07— suppress TNF secretion in response to LPS. Figure 3E assays T-cell response to various forms of IL-10, including wild type human IL-10, EBV IL-10, DV05, DV06, and DV07. All forms of IL-10 induced IFN- γ secretion from T-cells.

Figure 4 are a schematic representations of various configurations of IL-10 fusion protein/immunoconjugate/diabody constructs. Figures 4(a)-(c) represent a fusion protein complex (i.e., a diabody) where each fusion protein comprises a VH and VL regions obtained from two different antibodies or a VH/VL pair derived from a single antibody where the CDR regions are grafted from a different antibody to enable the diabody to bind to a different protein from that of the original CDR regions associated with the VH/VL, linked to a monomer of IL-10 (which may also be substituted with

an IL-10 variant molecule) via a carboxy terminal linker or an amino terminal linker with (a) a single mutation—e.g., amino acid position 31—impacting IL-10 receptor binding; (b) a single mutation—e.g., amino acid position 75—impacting IL-10 receptor binding; and (c) two mutations—e.g., amino acid positions 31 and 75—impacting IL-10 receptor binding. Figures 4(d)-(f) represent a fusion protein complex (i.e., a minibody) where each fusion protein comprises a single VH or VL region obtained from one antibody linked to a monomer of IL-10 (which may also be substituted with an IL-10 variant molecule) via a carboxy terminal linker or an amino terminal linker with (d) a single mutation—e.g., amino acid position 31—impacting IL-10 receptor binding; (e) a single mutation—e.g., amino acid position 75—impacting IL-10 receptor binding; and (f) two mutations—e.g., amino acid positions 31 and 75—impacting IL-10 receptor binding.

Figure 5 are a schematic representation of various configurations of the IL-10 fusion protein/immunoconjugate/diabody constructs. Figures 5(a)-(c) represents a single fusion protein (i.e., minibody) where the monomers of IL-10 (which may also be substituted with an IL-10 variant molecule) are each linked via a carboxy terminal linker or an amino terminal linker to either a VH or VL from the same antibody and the VH and VL are linked together and where the CDR's from a separate antibody have been grafted into the CDR regions to alter the binding capacity from the original CDR's to a protein that is expressed in the tissue of interest. The monomers of IL-10 comprise (a) a single mutation—e.g., amino acid position 31 —impacting IL-10 receptor binding; (b) a single mutation—e.g., amino acid position 75—impacting IL-10 receptor binding; and (c) two mutations—e.g., amino acid positions 31 and 75—impacting IL-10 receptor binding. Figures 5(d)-(f) represents a single fusion protein where monomers of IL-10 (which may also be substituted with an IL-10 variant molecule) are linked together and each monomer of IL-10 is further linked via a carboxy terminal linker or an amino terminal linker to a single VH or VL region obtained from one antibody. The IL-10 monomers comprise (d) a single mutation—e.g., amino acid position 31) impacting IL-10 receptor binding; (e) a single mutation—e.g., amino acid position 75—impacting IL-10 receptor binding; and (f) two mutations—e.g., amino acid positions 31 and 75) impacting IL-10 receptor binding.

Figure 6(a) represent the results from an *in vitro* assay measuring the levels of TNF- production in monocytes/macrophages in response to stimulation by an IL-10 based agent (DhDe:DV05, DhDe:DV06, DhDe:DV07) as compared to IL-10 and viral EBV-IL-10.

Figure 6(b) represent the results from an *in vitro* assay measuring the levels of IFN- γ production in T-cells in response to stimulation by an IL-10 based agent (DhDe:DV05, DhDe:DV06, DhDe:DV07) as compared to IL-10 and viral EBV-IL-10.

Figure 7(a) represent the results from an *in vitro* assay measuring the levels of IL-10 induction by monocytes/macrophages in response to LPS from various donors. Figure 7(b) is an *in vitro* assay measuring the reduction of TNF- by isolated monocytes/macrophages in response to IL-10. Figure

7(c) is suppression of TNF- α in low producers of IL-10. Figure 7(d) is suppression of TNF- α in medium producers of IL-10.

Figure 8 is a schematic representation of the screening process for determining the gene expression profile and/or SNP and/or INDEL profile in monocytes/macrophages for inflammatory disease.

Figure 9 represent the results of an *in vitro* assay measuring the levels of IL-10 induction by monocytes/macrophages in response to LPS in Crohn's patients and the reduction of TNF- α secretion from isolated peripheral blood monocytes/macrophages in response to IL-10 in Crohn's patients.

Figure 10A and 10B represent the results from an *in vitro* assay of the cellular response to IL-10 in (Figure 10A) 130 donor monocyte/macrophage samples where the level of TNF- α secretion from monocytes/macrophages is measured in response to IL-10; and (Figure 10B) 129 donor CD8+ T cells samples where the level of IFN- γ is measured in response to IL-10.

Figure 11 represent the repeat assessment of monocyte/macrophages response to IL-10 in three donors (donors 240, 307, and 50720).

Figure 12 represent the repeat assessment of CD8+ T cell stimulatory response to IL-10 in three donors (donors 240, 307, and 50720).

Figure 13 represent the results from the gene expression profile analysis demonstrating that there are clusters of genes expressed in CD8+ T cells in low, medium and high responders.

Figure 14 is a schematic representation of the screening process for determine the gene expression profile and/or SNP and/or INDEL profile in CD8+ T cells for oncology.

Figure 15 represent the results demonstrating that IL-10 and IL-10 based agent are capable of suppressing pro-inflammatory stimulation (by LPS) of bulk cultures comprising monocytes/macrophages.

Figure 16 represent the results demonstrating that in the absence of purification, anti-CD3 is ineffective in stimulating CD8+ T cells, demonstrating that CD8+ T cells must be purified to assess response to IL-10 or IL-10 based agent.

DETAILED DESCRIPTION OF EMBODIMENTS

It should be understood that the products (such as the gene expression profile, genetic markers or the SNP and/or INDEL sequences and profiles), methods of determining, genotyping, and identifying, and methods of treating are not limited to the particular methods, procedures, assays, techniques, cell types, and reagents described herein. The terms used to describe the particular embodiments in the present application should not be construed to limit the scope of the present application as set forth in the appended claims. Any publications, patents and published patent applications referenced in this application are hereby incorporated by reference in their entirety.

Unless otherwise indicated, the embodiments described herein employ conventional methods and techniques of molecular biology, biochemistry, pharmacology, chemistry, and immunology, well known to those skilled in the art. Many of the general techniques for designing and fabricating the IL-10 variants, including but not limited to human, CMV and/or EBV forms of IL-10, as well as the assays for testing the IL-10 variants, are well known methods that are readily available and detailed in the art. *See, e.g.*, Sambrook, et al., *Molecular Cloning: A Laboratory Manual* (2nd Edition, 1989); *Methods In Enzymology* (S. Colowick and N. Kaplan eds., Academic Press, Inc.); *Handbook of Experimental Immunology*, Vols. I-IV (D. M. Weir and C. C. Blackwell eds., Blackwell Scientific Publications); A. L. Lehninger, *Biochemistry* (Worth Publishers, Inc., current addition); *see also*, U.S. Patent 10,858,412 for the design of IL-10 fusion proteins comprising monomers of IL-10 and/or IL-10 variants and derivatives thereof. N-terminal aldehyde based PEGylation chemistry is also well known in the art.

Until the present application, it was not clearly understood why only a small percentage of Crohn's patients responded to reconstititional IL-10 therapy. In a 2000 study, the administration of recombinant human IL-10 (5 microgram/kg) induced approximately 25% remission in subjects with active Crohn's disease. Fedorak, 2000. Another study found that recombinant human IL-10 reduced the secretion levels of TNF- α by monocytes/macrophages and induced T-cell production of IFN- γ , especially at higher IL-10 doses, in only a portion of the population. Tilg, 2002. The inventor of the present application attributes IL-10 response in these patients to a genetic predisposition whereby active remission is based on the possession of certain and specific gene expression profiles and/or SNP and/or INDEL sequences.

Similarly, it is unclear why approximately 25% of cancer patients respond to IL-10 therapy with demonstrable tumor reductions in a 2016 to 2018 study. Naing A., 2018; Naing A., 2016. The inventor of the present application attributes IL-10 response in these patients to a genetic predisposition whereby active remission is based on the possession of certain and specific gene expression profiles and/or SNP and/or INDEL sequences.

Accordingly, the inventor has unexpectedly found that to optimize treatment of certain inflammatory diseases or disorders, such as, for example, Crohn's disease, inflammatory bowel disease (IBD) or ulcerative colitis; and/or to treat cancer or oncology patients, screening an individual that possesses the correct phenotypic traits, such as low producers of IL-10 but having an increased response rate to IL-10 would be the most ideal subclass of inflammatory patients to treat.

Similarly, the inventor has unexpectedly found that to optimize treatment of certain oncology disorders, screening an individual that possesses the correct phenotypic traits, such as increased CD8+ T cell production of IFN- γ in response to IL-10 would be the most ideal subclass of oncology patients to treat.

Accordingly, the present application relates to gene expression profiles and/or SNP and/or INDEL profiles associated with an increased likelihood of responding to IL-10, IL-10 derivative, or IL-

IL-10 based agent treatment or combination treatment including IL-10, IL-10 derivative, or IL-10 based agent with a secondary cytokine. Other aspects of the application include methods of determining or assaying for gene expression profiles and/or SNP and/or INDEL profiles in both healthy subjects and in diseased subjects and comparing the profiles of each to determine the optimal profile that results in the most receptive subjects to IL-10, IL-10 derivative, or IL-10 based agent treatment, or a combination of IL-10, IL-10 derivative, or IL-10 based agent with a second cytokine. An aspect of the invention also includes treating a diseased subject who has been identified as possessing the gene expression profile and/or SNP and/or INDEL profile that is most indicative of a positive response to IL-10, IL-10 derivative, or IL-10 based agent treatment, by administering reconstituted IL-10, IL-10 derivative, or IL-10 based agent.

As used herein in describing the various embodiments, the singular forms “a”, “an” and “the” include plural referents unless the content clearly dictates otherwise.

The term “about” refers to a deviance of between 0.0001-25% from the indicated number or range of numbers. In one embodiment, the term “about”, refers to a deviance of between 1-10% from the indicated number or range of numbers. In one embodiment, the term “about”, refers to a deviance of up to 25% from the indicated number or range of numbers. In a more specific embodiment, the term “about” refers to a difference of 1-25% in terms of nucleotide sequence homology or amino acid sequence homology when compared to a wild-type sequence.

A “protein”, “polypeptide” or “peptide” is used interchangeably to refer to a product expressed by a gene.

A “recombinant protein” is a polypeptide produced by recombinant DNA techniques, where DNA encoding the protein is inserted into a suitable expression vector that is then used to transfect, infect, or transduce a host cell to produce the heterologous protein.

The term “genotype” refers to the specific allelic composition of an entire cell or a certain gene, whereas the term “phenotype” refers to the detectable outward expression of a specific genotype.

A “polymorphism” is the coexistence of more than one form of a gene or portion thereof. A portion of a gene of which there are at least two different forms or two different nucleotide sequences, is referred to as a “polymorphic region of a gene.” A polymorphic region can be a single nucleotide, which differs in different alleles.

The term “interleukin-10” or “IL-10” refers to a protein comprising two subunits non-covalently joined to form a homodimer. As used herein, unless otherwise indicated “interleukin-10” and “IL-10” can refer to human IL-10 (“hIL-10”; Genbank Accession No. NP_000563; or U.S. Pat. No. 6,217,857) protein (SEQ ID No: 1) or nucleic acid (SEQ ID No: 2); mouse IL-10 (“mIL-10”; Genbank Accession No: M37897; or U.S. Pat. No. 6,217,857) protein (SEQ ID No: 7) or nucleic acid (SEQ ID No: 8); or viral IL-10, (“vIL-10”). Viral IL-10 homologs may be derived from EBV or CMV (Genbank Accession Nos. NC_007605 and DQ367962, respectively). The term EBV-IL10 refers to the EBV

homolog of IL-10 protein (SEQ ID No: 3) or the nucleic acid (SEQ ID No: 4). The term CMV-IL10 refers to the CMV homolog of IL-10 protein (SEQ ID No: 5) or the nucleic acid (SEQ ID No: 6).

The terms “wild-type,” “wt” and “native” are used interchangeably herein to refer to the sequence of the protein (e.g. IL-10 or EBV-IL10) as commonly found in nature in the species of origin of the specific IL-10 in question. For example, the term “wild-type” or “native” EBV-IL10 would thus correspond to an amino acid sequence that is most commonly found in nature.

The term “derive,” “derived,” “derive from,” or “derived from,” is used herein to identify the original source of a molecule, such as a viral form of IL-10 molecule, but is not meant to limit the method in which the molecule is prepared, manufactured, fabricated, or made. This would include methods, such as but not limited to, chemical or recombinant means.

The term “derivative” is intended to include any suitable modification of the reference molecule of interest or of an analog thereof, such as sulfation, acetylation, glycosylation, phosphorylation, polymer conjugation, hesylation, or other addition of foreign moieties, so long as the desired biological activity (e.g., anti-inflammation and/or no T cell stimulation) of the reference molecule or the variant is retained.

The terms “variant,” “analog” and “mutein” refer to biologically active derivatives of the reference molecule, that retain a desired activity, such as, for example, anti-inflammatory activity. Generally, the terms “variant,” “variants,” “analog” and “mutein” as it relates to a polypeptide refers to a compound or compounds having a native polypeptide sequence and structure with one or more amino acid additions, substitutions (that are conservative in nature), and/or deletions, relative to the native molecule.

A “variant” may include modifications (e.g., additions, substitutions, and/or deletions) that do not destroy the biological activity of the reference molecule. These variants may be “homologous” to the reference molecule as defined below. In general, the amino acid sequences of such analogs will have a high degree of sequence homology to the reference sequence, e.g., amino acid sequence homology of more than 50%, generally more than 60%-70%, even more particularly 80%-85% or more, such as at least 90%-95% or more, when the two sequences are aligned. Often, the analogs will include the same number of amino acids but will include substitutions. The variant will retain biological activity that is enhanced, diminished or substantially the same as the native molecule. Specifically, the term “variant” IL-10 molecule, which is interchangeable with the terms “engineered” IL-10 molecule or IL-10 variant molecule or IL-10 variant, refers to an IL-10 molecule or protein that includes one or both modifications to the IL-10 receptor binding domain(s) and/or to the regions responsible for forming an inter-domain angle in the IL-10 molecule or protein.

An “IL-10 agent” or “IL-10 based agent” is intended to be a collective term used to describe a molecule that differs from the wild type form of IL-10. The IL-10 agent will retain certain biological aspects of a fully functioning dimer of IL-10. Thus, the IL-10 agent includes any non-native form of

IL-10 including those molecules that comprises a part, portion, fragment, and/or variant of IL-10. An IL-10 agent also includes an engineered fusion protein or chimeric protein wherein native monomers of IL-10 or variant forms of IL-10 (including Epstein Barr viral forms) are conjugated to antibody fragment as described in U.S. Patent 10,858,412.

An “analog” or “analogs” may include substitutions that are conservative in nature. For example, conservative substitutions might include in kind type substitutions such as, but not limited to (1) an acidic substitution between aspartate and glutamate; (2) a basic substitution between any one of lysine, arginine, or histidine; (3) a non-polar substitution between any one of alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, or tryptophan; and (4) a uncharged polar substitution between any one of glycine, asparagine, glutamine, cysteine, serine threonine, or tyrosine. Phenylalanine, tryptophan, and tyrosine are sometimes classified as aromatic amino acids. It is also possible that an isolated replacement of leucine with isoleucine or valine, an aspartate with a glutamate, a threonine with a serine, or a similar conservative replacement of an amino acid with a structurally related amino acid may be made so long as the desired and specific biological activity is intact. For example, the polypeptide of interest may include up to about 1-10 conservative or non-conservative amino acid substitutions, or even up to about 15-25 conservative or non-conservative amino acid substitutions, or any integer between 1-50, so long as the desired function of the molecule remains intact. One of skill in the art may readily determine regions of the molecule of interest that can tolerate change well known in the art.

The term “homology,” “homologous” or “substantially homologous” refers to the percent identity between at least two polynucleotide sequences or at least two polypeptide sequences. Sequences are homologous to each other when the sequences exhibit at least about 50%, preferably at least about 75%, more preferably at least about 80%-85%, preferably at least about 90%, and most preferably at least about 95%-98% sequence identity over a defined length of the molecules.

The term “sequence identity” refers to an exact nucleotide-by-nucleotide or amino acid-by-amino acid correspondence. Percent identity can be determined using a variety of methods including but not limited to a direct comparison of the sequence information between two molecules (the reference sequence and a sequence with unknown % identity to the reference sequence) by aligning the sequences, counting the exact number of matches between the two aligned sequences, dividing by the length of the reference sequence, and multiplying the result by 100. Readily available computer programs can be used to aid in the identification of percent identity.

The term “fragment” is intended to include a portion of a molecule of the full-length amino acid or polynucleotide sequence and/or structure. A fragment of a polypeptide may include, for example, a C-terminal deletion, an N-terminal deletion, and/or an internal deletion of the native polypeptide. Active or functional fragments of a particular protein will generally include at least about 5-10 contiguous amino acid residues of the full-length molecule, preferably at least about 15-25 contiguous amino acid

residues of the full-length molecule, and most preferably at least about 20-50 or more contiguous amino acid residues of the full-length molecule, or any integer between 5 amino acids and the full-length sequence, provided that the fragment in question retains biological activity, such as anti-inflammatory activity.

The term “substantially purified” generally refers to isolation of a substance such that the substance comprises the majority percent of the sample in which it resides. A substantially purified component comprises 50%, preferably 80%-85%, more preferably 90-95% of the sample. Likewise the term “isolated” is meant, when referring to a polypeptide or a polynucleotide, that the indicated molecule is separate and discrete from the whole organism with which the molecule is found in nature or is present in the substantial absence of other biological macro-molecules of the same type.

The terms “subject,” “individual,” or “patient” are used interchangeably herein and refer to a vertebrate, preferably a mammal. Mammals include, but are not limited to, murine, rodent, simian, human, farm animals, sport animals, and certain pets.

The term “administering” includes routes of administration which allow the active ingredient of the invention to perform their intended function.

A “therapeutically effective amount” as it relates to, for example, administering the EBV-IL-10 variants described herein, refers to a sufficient amount of the EBV-IL10 variant to promote certain biological activities. These might include, for example, suppression of myeloid cell function, enhanced Kupffer cell activity, and/or lack of any effect on CD8⁺ T cells or enhanced CD8⁺ T-cell activity as well as blockade of mast cell upregulation of Fc receptor or prevention of degranulation. Thus, an “effective amount” will ameliorate or prevent a symptom or sign of the medical condition. Effective amount also means an amount sufficient to allow or facilitate diagnosis.

The term “treat” or “treatment” refers to a method of reducing the effects of a disease or condition. Treatment can also refer to a method of reducing the underlying cause of the disease or condition itself rather than just the symptoms. The treatment can be any reduction from native levels and can be, but is not limited to, the complete ablation of the disease, condition, or the symptoms of the disease or condition.

An IL-10 or IL-10 based agent (or derivatives and variants thereof) responsive gene expression profile and/or SNP and/or INDEL profile or an expression profile and/or genetic marker and/or SNP and/or INDEL profile indicative of responsiveness to IL-10 (or an IL-10 agent) is defined as a profile of one or more expressed proteins and/or genetic markers and/or SNP and/or INDEL sequences found in the genome of an individual who is more likely to respond to IL-10 or IL-10 agent treatment.

A “proinflammatory stimulus” is meant as an agent or condition that induces a proinflammatory response by inflammatory cells, such as macrophages. Proinflammatory response is characterized by secretion of one or more proinflammatory molecules, such as TNF- α , IL-1, IL-6, IL-12, IL-23. The proinflammatory stimulus may include agents such as bacteria or components thereof, including

bacterial cell walls, such as lipopolysaccharide (LPS). The activation of an inflammatory cell, such as a monocyte/macrophage, by a proinflammatory stimulus results in a stimulated cell.

The term “bispecific molecule” is intended to include any agent, e.g., a protein, peptide, or protein or peptide complex, which has two different binding specificities. The term “multispecific molecule” or “heterospecific molecule” is intended to include any agent, e.g., a protein, peptide, or protein or peptide complex, which has more than two different binding specificities.

The term “response” implies any kind of improvement or positive response, either clinical or non-clinical such as, but not limited to, measurable reduction or treatment of a disease or disorder, such as inflammatory disease, reduction tumor size or evidence of disease or disease progression, complete response, partial response, stable disease, increase or elongation of progression free survival, increase or elongation of overall survival, or reduction in toxicity.

The term “likely to respond,” “increased likelihood of responding,” “higher likelihood” or “increased chance of responding” shall mean that the patient or subject is more likely than not to exhibit at least one measurable improvement or change, in terms of a quantifiable measurement of particular markers, proteins, cytokines, etc., as compared to similarly situated patient or subject who does not have any measurable improvement or change.

The term “high” Tumor Necrosis Factor-alpha (TNF- α) reduction or suppression or response or responsiveness in monocytes/macrophages in response to a pro inflammatory stimulus shall mean about 10 to 15% (preferably 12 %) reduction in TNF- α secretion by monocytes/macrophages. The term “medium” or “intermediate” TNF- α reduction or suppression or response or responsiveness in monocytes/macrophages in response to a pro inflammatory stimulus shall mean about 20 to 30% (preferably 26%) reduction in TNF- α secretion by monocytes/macrophages. The term “low” TNF- α reduction or suppression or response or responsiveness in monocytes/macrophages in response to a pro inflammatory stimulus shall mean about 40 to 50% (preferably 44%) reduction in TNF- α secretion by monocytes/macrophages.

The term “high” induction or production or secretion of IL-10 in monocytes/macrophages in response to a pro-inflammatory stimulus shall mean about 1550 to 3000 picograms (pg)/ml (preferably 1658 to 2802 pg/ml) at 1 to 100 ng/ml of a pro-inflammatory stimulus (e.g., LPS) respectively, as measured by standard ELISA. The term “medium” or “intermediate” induction or production or secretion of IL-10 in monocytes/macrophages in response to a pro-inflammatory stimulus shall mean about 630 to 1500 pg/ml (preferably 630 to 1242 pg/ml) at 1 to 100 ng/ml of a pro-inflammatory stimulus (e.g., LPS) respectively, as measured by standard ELISA. The term “low” induction or production or secretion of IL-10 in monocytes/macrophages in response to a pro-inflammatory stimulus shall mean about 300 to 615 pg/ml (preferably 318 to 615 pg/ml) at 1 to 100 ng/ml of a pro-inflammatory stimulus (e.g., LPS) respectively, as measured by standard ELISA.

The term “high” Interferon-gamma (IFN- γ) level or secretion or induction or response by CD8+ T cells shall mean an IFN- γ level of about greater than or equal to 850 pg/ml (preferably 852 to 4277 pg/ml) at 1 to 100 ng/ml of IL-10, IL-10 based agent, or derivatives or variants thereof, stimulation respectively as measured by standard IFN- γ ELISA. The term “medium” or “intermediate” IFN- γ level or secretion or induction or response by CD8+ T cells shall mean an IFN- γ level of about greater than or equal to 350 to 849 pg/ml (preferably 368 to 842 pg/ml) at 1 to 100 ng/ml IL-10, IL-10 based agent, or derivatives or variants thereof, stimulation respectively as measured by standard IFN- γ ELISA. The term “low” IFN- γ level or secretion or induction by CD8+ T cells shall mean an IFN- γ level of about greater than or equal to 0 to 349 pg/ml (preferably 0 to 375 pg/ml) at 1 to 100 ng/ml IL-10, IL-10 based agent, or derivatives or variants thereof, stimulation respectively as measured by standard IFN- γ ELISA.

As noted above, the inventor discovered certain gene expression profiles and/or SNPs and/or INDELs that correlates with a higher likelihood of responding to IL-10 or IL-10 based agent treatments. The gene expression profile and/or SNP and/or INDEL profile(s) is associated with a population of individuals who are phenotypically lower producers of IL-10 and yet have the capacity to respond to suppression or stimulation from IL-10. This includes individuals who phenotypically possess monocytes/macrophages that have (1) low production of IL-10 and (2) high capacity to suppress TNF-

(upon stimulation by a pro-inflammatory stimulus); or phenotypically possess CD8+ T cells that, when stimulated by IL-10 (or an IL-10 based agent) to induce high levels of IFN- γ . Thus, one embodiment of the present application includes a method for selecting or screening for patients more receptive to IL-10 or IL-10 based agent treatment comprising the examination of gene expression profiles and/or SNP and/or INDEL profiles associated with a higher likelihood of responding to the IL-10 or IL-10 based agent. In another embodiment, the present application relates to a kit comprising primers and probes that are useful in determining the presence of the gene expression profiles and/or genetic SNP and/or INDEL profile.

In order to determine the requisite gene expression profile and/or SNP and/or INDEL profile associated with an increased likelihood of response to IL-10 or IL-10 based agent, the inventor devised an *in vitro* model system to measure IL-10 responsiveness. The process of assessing the genetic component in this model system, requires a two-tiered approach of (1) gathering response data from a cellular assay followed by (2) a genetic analysis of certain phenotypic traits exhibited in the cellular assay.

Cellular Assay: Inflammatory Disease responsiveness

The cellular assay for inflammatory disease involves isolating monocytes/macrophages from both healthy and diseased donors to determine responder profiles in inflammatory disease. The monocytes/macrophages from the donors are stimulated and assayed for (1) production or secretion of IL-10 and (2) response to IL-10 measured by the level of TNF- α . For the production, secretion, or induction of IL-10, a pro-inflammatory stimulus, such as LPS, is administered to the donor

monocytes/macrophages and the amount of IL-10 produced, secreted, or induced is measured. Typically, monocytes/macrophages are induced to produce IL-10 in response to a pro-inflammatory stimulus, such as LPS. Stimulating monocytes/macrophages with a pro-inflammatory stimulus, such as LPS, resulted in three different donor populations of low, medium, and high producers or secretors of IL-10. Likewise, stimulation with a pro-inflammatory cytokine also exhibit differential suppressive responses to IL-10 as measured by the level of TNF- α and resulted in high, medium, and low reduction in TNF- secretion (i.e., high, medium, and low responders to IL-10 as measured by the level of TNF- secretion). These various phenotypic traits (i.e., high, medium, low production or secretion of IL-10 and/or high medium, low reducers of TNF- secretion) are sorted and grouped for subsequent genetic analysis.

In a separate embodiment of this assay, bulk peripheral blood mononuclear cells (PBMC) (i.e., without purification of individual cells) are exposed to IL-10 or IL-10 based agent, after which LPS is added to the culture for 12-24 hours. The level of TNF- found in the supernatant is quantified. It was surprisingly found that purification of monocytes/macrophages from bulk PBMC cultures is not required prior to stimulation by a pro-inflammatory agent for the assessment of TNF- quantification. Figure 15.

Cellular Assay: Oncology responsiveness

The cellular assay for oncology involves the isolation of CD8+ T cells from both health and disease donors and assessing the cells ability to respond to IL-10 or IL-10 based agent stimulation. Typically, IL-10 or IL-10 based agent administration to CD8+ T cells results in the stimulation of the CD8+ T cells to produce, secrete or induce IFN- secretion. The cellular assay involves isolation of CD8+ T cells from PBMC. The CD8+ T cells from donors are activated/stimulated by anti-CD3/anti-CD28 and then exposed to an IL-10 or IL-10 based agent. After exposure to an IL-10 or IL-10 based agent, the cells are washed and exposed to soluble anti-CD3 for 4 hours, after which IFN- present in the supernatant is quantified.

In a separate embodiment, bulk PBMC are exposed to an IL-10 or IL-10 based agent. After exposure to an IL-10 or IL-10 based agent, the CD8+ T cells are isolated and exposed to soluble anti-CD3 for 4 hours, after which IFN- present in the supernatant is quantified. It was surprisingly found that assessment of CD8+ T cell response to IL-10 or IL-10 based agent, in this model cellular system, requires isolation prior to activation with anti-CD3/anti-CD28. Figure 16.

It was also surprisingly found that stimulating CD8+ T cells with IL-10 or IL-10 based agent resulted in three different donor populations of high, medium, and low responders to IL-10. These various phenotypic traits (i.e., high, medium, low responders to IL-10) are sorted and grouped for subsequent genetic analysis

Genetic Analysis of Certain Phenotypic Responses

To determine the underlying genetic components associated with the different phenotypic responses in monocytes/macrophages and in CD8+ T cells, an examination of (1) the differences in gene expression signatures between the high, medium, and low populations (both for IL-10 production or secretion and response to an IL-10 or IL-10 based agent *via* the secretion of TNF- α in response to a pro-inflammatory stimulus in macrophages/monocytes, as well as the response to an IL-10 or IL-10 based agent *via* the secretion or induction of IFN- γ in CD8+ T cells), and (2) the underlying or background genetic mutations in genes, are performed. The data gleaned from both the gene expression signatures and the underlying background genetic mutational data generates a blended data set that permits the identification of common pathways associated with each of the high, medium, and low populations in monocytes/macrophages and in CD8+ T cells. Furthermore, an aggregated analysis of various patient samples having different phenotypic traits (i.e., high, medium, and low secretors of TNF- α and IL-10 production/secretors in response to a pro-inflammatory stimulus in monocytes/macrophages as well as responders to IL-10 or IL-10 based agents in CD8+ T cells) establishes a standard gene expression signatures and mutational frequency profile from which to compare whether a sample falls into the high, medium, and low populations.

To determine differentials in gene expression signatures, a comparison of the gene expression signatures between the three phenotypic responses in monocytes/macrophages (i.e., high, medium, and low populations for IL-10 production or secretion and high, medium, and low response to an IL-10 or IL-10 based agent *via* the secretion of TNF- α in response to a pro-inflammatory stimulus) and/or in CD8+ T cells (i.e., high, medium, and low response to an IL-10 or IL-10 based agent *via* the secretion or induction of IFN- γ) is/are performed. Those genes having a differential expression between high and low, high and medium, and/or medium and low populations, whereby the differential gene expression is five, four, three, or two fold different, will be considered genes relevant for identifying, screening, or classifying a patient that is responsive or non-responsive to IL-10 or IL-10 based agent treatment. Preferably, the gene expression signature associated with low production or secretion of IL-10 along with high reduction in TNF- α secretion in monocytes/macrophages (i.e., high response to IL-10 or IL-10 based agent) following a pro-inflammatory stimulus will be indicative of a patient that will be responsive to IL-10 or IL-10 based agent treatment for inflammatory disease. Also preferable, the gene expression signature associated with high response to IL-10 or IL-10 based agent *via* the secretion or induction of IFN- γ in CD8+ T cells will be indicative of a patient that will be responsive to IL-10 or IL-10 based agent treatment for oncology. Tables 3-8 provide a listing of genes expression profiles that are associated with CD8+ T cells that are high responders to IL-10 or IL-10 based agents (Table 3), low responders to IL-10 or IL-10 based agents (Table 4), as measured by IFN- γ production or secretion; high IL-10 production or secretion (Table 5) or low IL-10 production or secretion (Table 6), high IL-10 responsiveness as measured by TNF- α production (Table 7) or low IL-10 responsiveness (Table 8)

as measured by TNF- production, in response to a pro-inflammatory stimulus in monocytes/macrophages.

Along with the gene expression signature data, the underlying genetic information, which examines the gene mutational frequency between the three phenotypic responses in monocytes/macrophages (i.e., high, medium, and low populations for IL-10 production or secretion and high, medium, and low response to an IL-10 or IL-10 based agent *via* the secretion of TNF- in response to a pro-inflammatory stimulus) and/or in CD8+ T cells (i.e., high, medium, and low response to an IL-10 or IL-10 based agent *via* the secretion or induction of IFN- γ), is/are performed. Those genes that are most differentially mutated between the high and low, high and medium, and/or medium and low populations are examined for SNP and/or INDEL profiles. Genes having mutational frequencies that are five, four, three, or two fold different between the high and low, high and medium, and/or medium and low populations, will be considered relevant genes for identifying, screening, or classifying a patient that is responsive or non-responsive to IL-10 or IL-10 based agent treatment. Tables 9-10 provide SNP and/or INDEL gene mutational frequencies associated with CD8+ T cells that are high responders to IL-10 or IL-10 based agents (Table 9), low responders to IL-10 or IL-10 based agents (Table 10), as measured by IFN- production or secretion; high IL-10 production or secretion (Table 11) or low IL-10 production or secretion (Table 12), high IL-10 responsiveness as measured by TNF- production (Table 13) or low IL-10 responsiveness (Table 14) as measured by TNF- production, in response to a pro-inflammatory stimulus in monocytes/macrophages.

Finally, the data obtained from both the gene expression signatures and mutational frequency information (collectively referred to as a “hit count”) is blended together and referenced against known and publicly available molecular pathway databases (e.g., Reactome Pathway database) to determine common molecular pathways in which the differential gene expression signatures and the genes having the highest mutational frequency are involved. Commonalities in pathways are determined by a statistical *p* value. Along with the gene expression signatures, tables 3-8 also provides the molecular pathways and the associated gene expression signatures associated with the molecular pathways.

The process of determining the differential gene expression and screening for gene mutational frequency is conventional and may be accomplished by any means generally known in the art. This may include differential display, direct sequencing of the gene, entire genome sequencing, and/or characterization of an expression product of a gene, such as mRNA, peptide, or proteins.

The genetic component may include, for example genomic DNA, amplified genomic DNA, cDNA, amplified cDNA, RNA, amplified RNA, or other genetic components known to those of skill in the art. The molecular pathway and corresponding gene expression signature are as follows: CD8+ T cells that are high responders to IL-10 or IL-10 based agents (Table 3) and low responders to IL-10 or IL-10 based agents (Table 4), as measured by IFN- production or secretion; high IL-10 production or secretion (Table 5) or low IL-10 production or secretion (Table 6), high IL-10 responsiveness as

measured by TNF- α production (Table 7) or low IL-10 responsiveness (Table 8) as measured by TNF- α production, in response to a pro-inflammatory stimulus in monocytes/macrophages.

A combination of the gene expression signatures, gene mutational frequencies, and blended common molecular pathways data for each of the high, medium, and low populations is used to determine a standard from which patients will be categorized to determine responsiveness to IL-10 or IL-10 based agent treatment.

The gene mutational frequency may be any number of differences at the nucleotide level that differs from native or wild-type or generally accepted reference sequences, polynucleotide sequences. Preferably the gene mutation is/are a SNP and/or INDEL but the gene mutation may also include simple sequence repeats (SSRs), restriction fragment length polymorphisms (RFLPs), and amplified fragment length polymorphisms (AFLPs). Differential gene expression level is determined by hit count analysis of mRNA or qPCR or mRNA profiles. The genetic marker may include variability associated with insertions, deletions, duplications, repetitive elements, point mutations, recombination events, or the presence and sequence of transposable elements. Molecular markers can be derived from genomic or expressed nucleic acids (e.g., ESTs) and can also refer to nucleic acids used as probes or primer pairs capable of amplifying sequence fragments via the use of PCR-based methods.

Using the combined gene expression signatures and/or SNP and/or INDEL genetic frequency data, genetic profiles are determined for those subjects that are more likely to respond to IL-10 or IL-10 based agent response. For treatment of inflammatory disease, the gene expression signatures, and genetic frequency data associated with both low production or secretion of IL-10 and high responsiveness to IL-10 or IL-10 based agent having the most significant reduction of TNF- α secretion will be the standards from which to determine patient most receptive to IL-10 or IL-10 based agent anti-inflammatory therapy. For treatment of oncology, the gene expression signatures, and genetic frequency data associated with high responsiveness to IL-10 or IL-10 based agent having the most significant production of IFN- γ secretion will be the standards from which to determine patient most receptive to IL-10 or IL-10 based agent oncology therapy.

In an embodiment, the application relates to a method of determining the likelihood that a patient with an inflammatory disease will respond to IL-10 or IL-10 based agent comprising isolating and analyzing a genetic component from a subject for the presence of a gene expression profile (e.g., assessing mRNA levels) and/or SNP and/or INDEL profile or signature linked to a phenotypic responsiveness to IL-10 or IL-10 based agent treatment. In a preferred embodiments, the gene expression data relates to a molecular pathway and gene expression profile data found in tables 3-8.

In another embodiment, the application relates to a method of screening a patient for responsiveness to IL-10 or IL-10 agent based treatment comprising analyzing a genetic component from the patient for the presence of a SNP and/or INDEL profile linked to a phenotypic trait where inflammatory cells have both low induction of IL-10 and high responsiveness to IL-10 through

increased reduction of TNF- α in monocytes/macrophages or significant increases in IFN- γ secretion by IL-10 or IL-10 agent exposed CD8+ T cells.

An anti-inflammatory cell may include any cell associated with the inflammatory response. These include, without limitation, monocytes, macrophages, dendritic cells, granulocytes, neutrophils, eosinophils, lymphocytes, plasma cells, and histiocytes. Preferably, the anti-inflammatory cell is a monocyte/macrophage.

An anti-cancer cell may then include any cell associated with targeting and destroying tumor cells. These include, without limitation, monocytes, macrophages, dendritic cells, CD4+ T cells, CD8+ T cells and NK cells. Preferably, the anti-cancer cell is a CD8+ T cell.

In one embodiment of the application, subjects with inflammatory disease are screened, selected, and administered an IL-10 or IL-10 based agent treatment. The differential response of inflammatory patients to IL-10 treatment can be improved by specifically selecting those patients who exhibit the presently described expression profile and/or genetic marker and/or SNP and/or INDEL profile. Prior to the administration of an IL-10 or IL-10 based agent treatment, a selection of patients who are determined to be receptive to IL-10 will improve the chances of success. This is applicable to both oncology and IBD. Accordingly, when coupled with the method of screening described herein, patients determined to possess the expression profiles and/or genetic markers and/or SNP and/or INDEL profile correlative to receptive IL-10 response will be administered IL-10 or an IL-10 based agent. When an expression profile and/or genetic marker or is utilized for selecting a subject for a treatment described herein, the genetic marker or SNP and/or INDEL is measured before and/or during treatment, and the values obtained are used by a clinician to assess probable or likely success, failure, receptive to treatment, not receptive, or continued treatment.

The IL-10, a composition, or a formulation thereof may include human or viral forms. In an aspect, the IL-10 may be any of SEQ ID Nos:1-8. The IL-10 may be further amended to include modifications such as sulfation, acetylation, glycosylation, phosphorylation, polymer conjugation, hesylation, or other addition of foreign moieties, so long as the desired biological activity (e.g., anti-inflammation and/or limited to no T cell stimulation for IBD, or potent CD8+ T cell stimulation for oncology) of the reference molecule or the variant is retained. The IL-10 may also be a derivative or variant, which refers to an IL-10 amino acid (or nucleic acid) sequence that differs from wild-type IL-10 anywhere from 1-25% in sequence identity or homology. Thus, for example, an EBV IL-10 variant molecule is one that differs from wild-type EBV IL-10 by having one or more amino acid (or nucleotide sequence encoding the amino acid) additions, substitutions and/or deletions. Thus in one form, an EBV IL-10 variant is one that differs from the wild type sequence of SEQ ID No.:3 by having about 1% to 25% difference in sequence homology, which amounts to about 1-42 amino acid difference.

In another aspect, the IL-10 is a functional variant that includes modifications (e.g., additions, substitutions, and/or deletions) that do not destroy the biological activity of the reference molecule.

These variants may be “homologous” to the reference molecule as defined below. In general, the amino acid sequences of such analogs will have a high degree of sequence homology to the reference sequence, e.g., amino acid sequence homology of more than 50%, generally more than 60%-70%, even more particularly 80%-85% or more, such as at least 90%-95% or more, when the two sequences are aligned. Often, the analogs will include the same number of amino acids but will include substitutions. The functional variant will retain biological activity that is enhanced, diminished or substantially the same as the native molecule. Specifically, the term “variant” IL-10 molecule, which is interchangeable with the terms “engineered” IL-10 molecule or IL-10 variant molecule or IL-10 variant, refers to an IL-10 molecule or protein that includes one or both modifications to the IL-10 receptor binding domain(s) and/or to the regions responsible for forming an inter-domain angle in the IL-10 molecule or protein. A variant IL-10 “fusion protein” or “diabody” or “fusion” generally refers to the formation of a fusion protein (or a fusion protein complex) comprising variant IL-10 (in either monomeric form or in homodimeric form) and at least one other protein. As used herein a variant IL-10 “or a fusion protein thereof” may be used throughout this description to describe such a variant IL-10 fusion protein.

In a preferred embodiment, the IL-10 fusion protein, as described in U.S. Patent 10,858,412 will include a specific modification to the IL-10 portion of the fusion protein. In a preferred embodiment, the IL-10 portion of the fusion protein will include an EBV IL-10 harboring a V31L substitution in SEQ ID No.:3. This modification has been shown to decrease macrophage response and is designated DV05. (Fig. 3A). In another preferred embodiment, the IL-10 portion of the fusion protein will include an EBV IL-10 harboring a A87I substitution in SEQ ID No.:3. This modification has been shown to decrease T-cell stimulation and is designated DV06. (Fig. 3B).

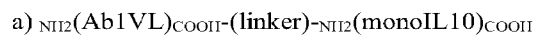
The fusion protein is an engineered protein comprising an IL-10 portion, a linker or spacer region, and VH and/or VL portion. The linker or spacer can be a random amino acid sequence (such as SSGGGGS (SEQ ID No.: 30, or GGGGSGGGGSGGGGS (SEQ ID No.: 31)), constant region of an antibody, a scFv, a diabody, or a minibody. The constant region can be derived from, but not limited to IgG1, IgG2, IgG3, IgG4, IgA, IgM, IgD, or IgE. The linker or spacer can be preferably the constant heavy (CH) region 1, CH2, or CH3. In a more preferred embodiment, the linker of spacer is a random amino acid sequence of SEQ ID Nos: 30 and/or 31.

The fusion protein may also include at least one monomer of IL-10 or IL-10 variant molecule conjugated at the fusion protein’s N-terminal end, the C-terminal end, or both. In another embodiment, the fusion protein comprising IL-10 or IL-10 variant may also include at least one cytokine conjugated at the terminal end opposite of the IL-10 or variant IL-10 and includes IL-2, IL-7, IL-15, , IL-26, IL-27IL-28, IL-29, IL-10, IL-10 variant molecule, IFN- , EPO, TGF-beta, b-FGF, EGF, PDGF, IL-4, IL-11, IL-13, or any combination thereof. In some preferred embodiments, the fusion protein comprises two monomeric forms of IL-10 or IL-10 variant molecules conjugated at the N-terminal end of the fusion protein and two IL-10 or IL-10 variant molecules conjugated at the C-terminal end of the fusion

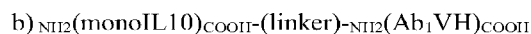
protein; the fusion protein comprises two monomeric forms of IL-10 or IL-10 variant molecules conjugated at the N-terminal end of the fusion protein and at least one IL-2 molecules (or other cytokine/growth factor) conjugated at the C-terminal end of the fusion protein; the fusion protein comprises two IL-10 or IL-10 variant molecules conjugated at the N-terminal end of the fusion protein and at least one IL-15 molecules conjugated at the C-terminal end of the fusion protein. In another embodiment, the C-terminal end of the fusion protein may at least two different cytokines selected from IL-10 or variant IL-10 and includes IL-2, IL-7, IL-15, , IL-26, IL-27, IL-28, IL-29, IL-10, IL-10 variant molecule, IFN- , EPO, TGF-beta, b-FGF, EGF, PDGF, IL-4, IL-11, IL-13, or any combination thereof.

In another embodiment, the fusion protein is fabricated using a scFv, a diabody, Fab, or any antibody fragment as the base scaffold onto which one monomer or two monomers of IL-10, one monomer or two monomers of a IL-10 variant molecule, IL-2, IL-7, IL-15, IL-26, IL-27, IL-28, IL-29, IFN- , EPO, TGF-beta, basic-FGF, EGF, PDGF, IL-4, IL-11, or IL-13, or combinations thereof are conjugated. The scFv, diabody, minibody, Fab, or antibody fragment portion of the fusion protein may have a non-targeting or targeting functionality. The ability to target may be dictated by the presence of specific antigen binding modalities, such as the presence of CDR regions. These CDR regions are derived from monoclonal antibodies developed against specific target proteins, e.g. EGFR, VEGFR, FGFR, PDGFR, Her2Neu, GPC3, MAdCAM, VCAM, ICAM, that are grafted through established molecular biology techniques into the anti-Ebola VH VL that acts as a scaffolding system, by replacing the cognate CDR regions of the anti-Ebola VH VL.

In one particularly preferred embodiment, the fusion protein comprises at least one variable region, having a variable heavy chain (VH) and/or variable light chain (VL), linked to an IL-10 or IL-10 variant molecule. In this configuration, the fusion protein comprises an IL-10 monomer or variant IL-10 monomer linked to at least one variable region of an antibody. In one aspect, this fusion protein is a linear contiguous sequence comprising an IL-10 monomer or IL-10 monomer variant molecule linked to a VH, linked to a VL, linked to an IL-10 monomer. The variable region of the antibody can be a variable heavy (VH) chain region, a variable light (VL) chain region, or both. A first fusion protein comprises a protein sequence having a linear contiguous configuration such that an IL-10 monomer or a variant IL-10 monomer is conjugated to a variable region's (VH or VL or both) carboxy terminal end. A second fusion protein may comprise a protein sequence having a linear contiguous configuration such that an IL-10 monomer or a variant IL-10 monomer is linked to a variable region's (VH or VL or both) amino terminal end. A representative example of the first fusion protein described above may include the following configuration:

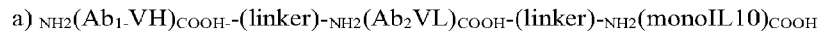


A representative example of the second fusion protein described above may include the following configuration:

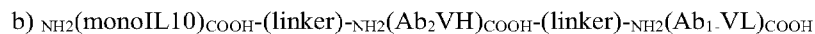


Together, the first (a) and second (b) fusion proteins form a functional protein complex in an anti-parallel manner, whereby the terminally linked monomers of IL-10 or variant IL-10 form a functional homodimer and the variable regions together are capable of forming a functional antigen binding site (“ABS”) (see e.g., Figures 4(a)- (f)).

In an alternative embodiment, the IL-10 monomer or variant IL-10 monomer may be conjugated to at least two variable regions from the same antibody or from two different antibodies. In this configuration, the at least two variable regions are a VH and VL. An example of such a configuration would include a first fusion protein with a linear contiguous protein sequence of a VH region of a first antibody linked at its carboxy terminal end to an amino terminal end of a VL region of the second antibody subsequently linked to the amino terminal end of a monomer of IL-10 or a monomer of an IL-10 variant molecule. An alternative configuration would include a second fusion protein with a linear contiguous protein sequence of a monomer IL-10 or a monomer of an IL-10 variant molecule linked at its carboxy terminal end to an amino terminal end of a VH region of the second antibody subsequently linked to an amino terminal end of a VL region of the first antibody. A representative example of the first fusion protein described above may include the following configuration:

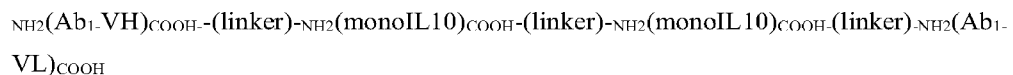


A representative example of the second fusion protein described above may include the following configuration:



Together, the first (a) and second (b) fusion proteins form a functional protein complex in an anti-parallel manner, whereby the terminally linked monomers of IL-10 or variant IL-10 form a functional homodimer and the variable regions together are capable of forming an ABS (see e.g., Figures 4(a) – (c)).

In yet another embodiment, the fusion protein comprises two monomers of IL-10 or two monomers of variant IL-10 that are fused together and one or more VH and VL regions. Each monomer is individually linked to one or more VH region and/or VL region of an antibody. When more than one VH and/or VL region is used in this fusion protein configuration, the VH and VL regions may be from the same antibody or from at least two different antibodies. In one particular configuration of this fusion protein, the VH or VL region is linked to the amino terminal end of a first monomer which is then linked by its carboxy end to the amino terminal end of a second monomer which is then linked to the amino terminal end of a VL or VH. Optionally, additional VH or VL regions may be linked to the amino or carboxy terminal ends, wherein the VH or VL regions may be from the same antibody or from a different antibody. Representative examples of the fusion protein described above may include the following configurations (see e.g., figures 5 (d) – (f)):



The fusion protein described above will be capable of folding in a manner that allows the monomers of IL-10 to form a homodimer and the variable domains (VH and VL) of an antibody to form a functional ABS.

In another embodiment, the fusion protein comprises two monomers of IL-10 or two monomers of variant IL-10 located at the opposing terminal ends of the fusion protein and at least one VH and VL region, wherein the VH and VL regions are linked together. In this configuration, the VH and VL regions are fused together and each monomer is individually linked to either a VL region or a VH region of a first antibody. In this configuration, the IL-10 monomers or the monomers of variant IL-10 are each individually linked to either a VH or VL of a first antibody. A representative example of the fusion protein described above may include the following configurations (see, e.g., figures 5(a)-(c)):

- a) $\text{NH}_2(\text{monoIL10})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{Ab}_1\text{-VH})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{Ab}_1\text{-VL})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{monoIL10})_{\text{COOH}}$
- b) $\text{NH}_2(\text{monoIL10})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{Ab}_1\text{-VL})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{Ab}_1\text{-VH})_{\text{COOH}}-(\text{linker})-\text{NH}_2(\text{monoIL10})_{\text{COOH}}$

The monomer of IL-10 or the monomer of a variant IL-10 may be linked to the VH or VL sequence through a linker sequence. The linker can be a carboxy terminal linker linking a carboxy end of a variable chain region (VH or VL) to an amino terminal end of a monomer of IL-10 or a monomeric IL-10 variant molecule. Alternatively, the linker can be an amino terminal linker whereby the carboxy terminal end of a monomeric IL-10 or a monomeric IL-10 variant molecule is linked to the amino terminal end of a variable chain region (VH or VL).

Thus, in one form, the fusion protein comprises a monomeric IL-10 molecule or a variant IL-10 molecule linked to two variable regions from at least two different antibodies, wherein the two variable regions are configured as a VH region from a first antibody linked to a VL region from a second antibody or a VL from the first antibody linked to a VH from the second antibody. The fusion protein according to this form may include monomeric IL-10 molecule or a variant thereof including at least one amino acid substitution that increases or decreases affinity to an IL-10 receptor. The amino acid substitution impacting IL-10 receptor binding may occur in a human, CMV or EBV IL-10. The amino acid substitution may preferably be in an EBV IL-10 and include amino acid substitution at position 31, 75, or both. The amino acid substitutions may include any one or more of a V31 L or A75I substitution or both. In addition to the amino acid substitutions impacting IL-10 receptor binding affinity, the IL-10 variant may also include modifications that impact the inter-domain angle. In another embodiment, the fusion protein comprises a configuration selected from: (a) a VH region of the first antibody linked at its carboxy terminal end to an amino terminal end of a VL region of the second antibody subsequently linked to a carboxy terminal end of a monomer of IL-10 or a variant thereof; or (b) an IL-10 molecule or a variant thereof linked at its carboxy terminal end to an amino terminal end of a VH region of the second antibody subsequently linked to an amino terminal end of a VL region of the first antibody.

These fusion protein configurations include, in one preferred embodiment a sequence of SEQ ID Nos.: 24-28, or 29. These fusion proteins sequences are capable of forming a complex wherein the monomers of IL-10 or monomers of variant IL-10 are capable of forming a homodimer. Such a complex may include and/or configured as a diabody complex.

In another form, the fusion protein may be fashioned as an immunoconjugate comprising a first fusion protein comprising at its amino terminal end a heavy chain variable region (VH) of a first antibody linked to a light chain variable region (VL) of a second antibody further linked to a monomer of IL-10; and a second fusion protein comprising at its amino-terminal end a monomer of IL-10 linked to a VH of the second antibody further linked to a VL of the first antibody, wherein the VH and VL of the first and second antibodies associate into a diabody and the monomers of IL-10 form a functional dimeric IL-10 molecule. In another preferred embodiment, an immunoconjugate complex comprises a first fusion protein comprising at its amino terminal end a VH region of a first antibody and a monomeric IL-10 molecule linked by its carboxy terminal end; and a second fusion protein comprising at its amino terminal end a monomer of IL-10 linked to a VL of the first antibody, wherein the VH region of the first antibody associates with the VL region of first antibody thereby allowing the monomeric IL-10 molecules on each peptide chain to form a functional IL-10 dimer. The monomer(s) of IL-10 or monomer(s) variant IL-10 may include, as described above, amino acid modifications that impact IL-10 receptor binding and/or inter-domain angle.

In another preferred embodiment, an immunoconjugate complex comprises a first fusion protein comprising at its amino terminal end a VH region of a first antibody linked to a monomeric IL-10 molecule; and a second fusion protein comprising at its amino terminal end a monomer of IL-10 linked to a VL of the first antibody, wherein the VH region of the first antibody associates with the VL region of first antibody thereby allowing the monomeric IL-10 molecules on each peptide chain to form a functional IL-10 dimer. In yet another embodiment, the immunoconjugate comprises at its amino terminal end a monomer of a first IL-10 (or IL-10 variant molecule) monomer linked to a VH region of a first antibody linked to a VL region of the first antibody linked to a monomer of a second IL-10 (or IL-10 variant molecule), wherein the two IL-10 monomers are able to associate together to form a functional dimer of IL-10. The VH and VL regions described are capable of forming an antigen binding site that specifically target an antigen (e.g., receptor, protein, nucleic acid, etc.). Thus, there are two chains, Chain 1 and Chain 2 which together for a fusion protein complex that creates a functioning IL-10 (or IL-10 variant molecule) homodimer. Representative fusion protein chains (i.e., Chain 1 and Chain 2) are described in Table 2:

Table 1	
Chain 1	Chain 2
SEQ ID No: 24	SEQ ID No: 25
SEQ ID No: 26	SEQ ID No: 27
SEQ ID No: 28	SEQ ID No: 29
SEQ ID No: 35	SEQ ID No: 36

SEQ ID No: 38	SEQ ID No: 39
SEQ ID No: 41	SEQ ID No: 42
SEQ ID No: 46	SEQ ID No: 47
SEQ ID No: 48	SEQ ID No: 49
SEQ ID No: 50	SEQ ID No: 51

The fusion proteins include a VH and VL from at least one antibody. The fusion protein may comprises a range of 1-4 variable regions. The variable regions may be from the same antibody or from at least two different antibodies. The antibody variable chains can be obtained or derived from a plurality of antibodies (e.g., those targeting proteins, cellular receptors, and/or tumor associated antigens). In another embodiment, the variable regions are obtained from antibodies that target antigens associated with various diseases (e.g., cancer) or those that are not typically found or rarely found in the serum of a healthy subject, for example variable regions from antibodies directed to EGFR, MadCam, HIV and/or Ebola. Thus, in one embodiment, the variable regions are obtained or derived from anti-EGFR, anti-MadCam, anti-HIV (Chan et al, J. Virol, 2018, 92(18):e006411-19) or anti-Ebola (US Published Application 2018/0180614, incorporated by reference in its entirety, especially mAbs described in Tables 2, 3, and 4) antibodies, for example. In another embodiment, the variable regions are obtained or derived from antibodies capable of enriching the concentration of cytokines, such as IL-10, to a specific target area so as to enable IL-10 to elicit its biological effect. Such an antibody might include those that target overexpressed or upregulated receptors or antigens in certain diseased regions or those that are specifically expressed in certain impacted areas. For example, the variable regions might be obtained from antibodies specific for epidermal growth factor receptor (EGFR); CD52; various immune check point targets, such as but not limited to PD-L1, PD-1, TIM3, BTLA, LAG3 or CTLA4; CD20; CD47; GD-2; HER2; GPC3; EpCAM; FAP ; 5T4; Trop2; EDB-FN; TGF Trap; MadCam, 7 integrin subunit; 4 7 integrin; 4 integrin SR-A1; SR-A3; SR-A4; SR-A5; SR-A6; SR-B; dSR-C1; SR-D1; SR-E1; SR-F1; SR-F2; SR-G; SR-H1; SR-H2; SR-I1; and SR-J1 to name a few. A monomer of IL-10 (e.g., human, CMV, or EBV) or variant IL-10 molecule (described herein) is conjugated to either the amino terminal end or the carboxy terminal end of a variable region (VH or VL), such that the IL-10 or variant IL-10 molecule is able to dimerize with one another.

The fusion protein or fusion protein complex may also have an antigen targeting functionality. The fusion protein or fusion protein complex will comprise VH and VL regions that are able to associate together to form an antigen binding site or ABS. In some configurations, the IL-10 or IL-10 variant molecule or monomers thereof will be covalently linked to the end comprising the antigen binding site. These targeting fusion proteins may comprise at least one functioning variable region or paired VH and VL at one end of the fusion protein such that the fusion protein retains the capacity to target an antigen as well as having a functioning homodimer of an IL-10 or IL-10 variant molecule (see, Figs. 4 (a)-(f) and 5 (a)-(f)). The variable regions may be further modified (e.g., by addition, subtraction, or

substitution) by altering one or more amino acid that reduce antigenicity in a subject. The VH and VL pair form a scaffolding onto which CDR regions obtained for a plurality of antibodies can be grafted. Such antibody CDR regions include those antibodies known and described above. For example, the CDR regions from any antibody may be grafted onto a VH and VL pair such as those described in SEQ ID Nos: 37, 44, or 45 or those fusion proteins that are capable of forming a fusion protein complex such as those described in SEQ ID Nos: 46 and 47; 48 and 49; or 50 and 51. The CDR regions in the above described VH and VL scaffolding will include the following number of amino acid positions available for CDR engraftment/insertion (Table 3):

Table 2	
Heavy chain CDR1	3-7 amino acids
Heavy chain CDR2	7-11 amino acids
Heavy chain CDR3	7-11 amino acids
Light chain CDR1	9-14 amino acids
Light chain CDR2	5-9 amino acids
Light chain CDR3	7-11 amino acids

In another aspect, the fusion protein described above may be represented by one of the following general formula:

- 1) IL10-L¹-X¹-L¹-X²-L₁-IL10 (Formula I);
- 2) (Z)_n-X¹-L²-Y²-L¹-IL10 (Formula II);
- 3) IL10-L¹-Y¹-L²-X²-(Z)_n (Formula III);
- 4) X¹-L²-X²-L¹-IL10 (Formula IV);
- 5) IL10-L¹-X¹-L²-X² (Formula V);
- 6) X¹-L¹-IL10 (Formula VI); and/or
- 7) IL10-L¹-X² (Formula VII)

wherein

“IL-10” is human IL-10 (SEQ ID No: 1); EBV IL-10 (SEQ ID No: 3), DV05 (SEQ ID No:14 or 18), DV06 (SEQ ID No: 15 or 19), or DV07 (SEQ ID No:16 or 20);

“L₁” is a linker of SEQ ID No: 31;

“L₂” is a linker of SEQ ID No: 30;

“X₁” is a VH region obtained from a first antibody specific for epidermal growth factor receptor (EGFR); CD52; various immune check point targets, such as but not limited to PD-L1, PD-1, TIM3, BTLA, LAG3 or CTLA4; CD20; CD47;GD-2; HER2; GPC3; EpCAM; ICAM (ICAM-1, -2, -3, -4, -5), VCAM, FAP ; 5T4; Trop2; EDB-FN; TGF Trap; MadCam, 7 integrin subunit; 4 7 integrin; 4 integrin SR-A1; SR-A3; SR-A4; SR-

A5; SR-A6; SR-B; dSR-C1; SR-D1; SR-E1; SR-F1; SR-F2; SR-G; SR-H1; SR-H2; SR-I1; SR-J1; HIV, or Ebola;

“X₂” is a VL region obtained from the same antibody as X₁;

“Y₁” is VH region obtained from a second antibody specific for epidermal growth factor receptor (EGFR); CD52; various immune check point targets, such as but not limited to PD-L1, PD-1, TIM3, BTLA, LAG3 or CTLA4; CD20; CD47; GD-2; HER2; GPC3; EpCAM; ICAM (ICAM-1, -2, -3, -4, -5), VCAM, FAP ; 5T4; Trop2; EDB-FN; TGF Trap; MadCam, 7 integrin subunit; 4 7 integrin; 4 integrin SR-A1; SR-A3; SR-A4; SR-A5; SR-A6; SR-B; dSR-C1; SR-D1; SR-E1; SR-F1; SR-F2; SR-G; SR-H1; SR-H2; SR-I1; SR-J1; HIV, or Ebola;

“Y₂” is a VL region obtained from the same antibody as Y₁;

wherein X and Y are obtained from the same or different antibody;

“Z” is a cytokine selected from IL-6, IL-4, IL-1, IL-2, IL-3, IL-5, IL-7, IL-8, IL-9, IL-15, IL-26, IL-27, IL-28, IL-29, GM-CSF, G-CSF, interferons - α , - β , - γ , EPO, TGF- β , or tumor necrosis factors - α , - β , basic FGF, EGF, PDGF, IL-4, IL-11, or IL-13;

“n” is an integer selected from 0-2.

In an embodiment, the substituents of Formula I-VII, above, is preferably selected from the following: IL-10 is preferably DV05, DV06, or DV07; X₁ and X₂ are preferably an anti-EGFR, anti-PDGFR, anti-FGFR, anti-VEGF, anti-Her2Neu, anti-GPC3, anti-MAdCAM, anti-ICAM-1, -2, -3, -4, anti-VCAM, anti-HIV, or anti-Ebola; Y₁ and Y₂ are preferably anti-EGFR, anti-MAdCAM, anti-ICAM-1, -2, -3, -4, anti-VCAM, anti-HIV, or anti-Ebola; Z is selected from IL-2, IL-7, or IL-15; and n is 1. In a most preferred embodiment, the fusion proteins are anyone of SEQ ID Nos: 33-51. Those of skill in the art will understand that the presence of a Histidine tag is used in the purification process of the fusion protein and maybe left intact or removed from the final product. Those of skill in the art will also understand that the VH and VL framework regions of any of the antibodies described above may be substituted with other complementary-determining regions (CDR) regions. For example, if the VH and VL regions are from an anti-Ebola antibody, the six CDR regions (i.e., CDRs 1-3 of both the VH and VL) may be substituted with the 6 CDR regions of an anti-EGFR antibody (e.g., cetuximab). Thus, in one preferred embodiment, the fusion protein is SEQ ID Nos: 34-36. In another preferred embodiment, the fusion protein is one having the scaffolding represented by SEQ ID Nos: 37; 44; 45; 46-47; 48-49; or 50-51, where any 6 CDR regions from any antibody may be grafted. In other preferred embodiments, the CDR regions from the VH and VL regions of an anti-Ebola antibody may be grafted with the CDR regions from an anti-MAdCAM, anti-VCAM, or anti-ICAM-1, -2, -3, -4 antibody, wherein in a preferred embodiment the CDR regions may be grafted into a fusion protein of SEQ ID No: 37. The fusion proteins as described in the formulas II and III; formulas IV and V; and formulas VI and VII, above are designed to associate together to form a biologically active homodimer of IL-10 (or

variant thereof). The fusion proteins described above are designed to either be non-targeting or targeting depending on the pair of VH and VL regions selected and/or the CDR regions engrafted into the VH and VL. The term “non-targeting” is meant to describe a VH and VL region that is not able to target to a specific antigen located in vivo because the antigen is not present or the antigen binding site (ABS) has been disabled or modified to eliminate the ABS functionality.

The fusion proteins described above may also include additional amino acid sequences that aid in the recovery or purification of the fusion proteins during the manufacturing process. These may include various affinity tags, such as but not limited to protein A, albumin-binding protein, alkaline phosphatase, FLAG epitope, galactose-binding protein, histidine tags, and any other tags that are well known in the art. *See, e.g.,* Kimple et al (Curr. Protoc. Protein Sci., 2013, 73:Unit 9.9, Table 9.91, incorporated by reference in its entirety). In one aspect, the affinity tag is an histidine tag having an amino acid sequence of HHHHHH (SEQ ID No.: 32). The histidine tag may be removed or left intact from the final product. In another embodiment, the affinity tag is a protein A modification that is incorporated into the fusion protein (e.g., into the VH region of the fusion proteins described herein), such as those described in SEQ ID Nos: 34 or 44-51. A person of skill in the art will understand that any fusion protein sequence described herein can be modified to incorporate a protein A modification by inserting amino acid point substitutions within the antibody framework regions as described in the art.

EXAMPLES

Example 1 – Monocyte/Macrophage Assessment

To determine the genetic markers associated with positive treatment to IL-10 or IL-10 based agent treatment, an assessment and classification of the phenotypic expression of various reactions to IL-10 is required. PBMCs were isolated from several healthy donors and diseased patients. The monocytes/macrophages were isolated and tested for (1) induction or production of IL-10 and (2) ability to reduce TNF- secretion in response to IL-10.

IL-10 Induction, production, or secretion

Peripheral blood monocytes/macrophages are isolated from whole peripheral blood by magnetic bead separation and plated at 2×10^6 cells/mL in 200 μ L in 96 well plates. Isolated peripheral blood monocytes/macrophages (2×10^6) are also flash frozen and subjected to Next Generation Sequences (NGS) to confirm the gene expression and genetic signature associated with high, medium, or low response to and expression of IL-10. The isolated monocytes/macrophages were stimulated with a pro-inflammatory stimulant, LPS (0, 0.001, 0.01, 0.1, 1, 10, 100 ng/mL IL-10 and 10 ng/mL) for 18 hours. After 18 hours, supernatants are collected and the amount of IL-10 produced is measured. Referring to Fig. 7(a), LPS stimulated monocytes/macrophages from donors exhibited varying degrees IL-10 production, whereby approximately 40% produce high levels (greater than 2000 pg/mL) of IL-10,

28% produce medium levels (approximately 1000 pg/ml) of IL-10, and approximately 32% produced low levels of IL-10 (less than 1000 pg/ml).

TNF- α response

Likewise, the isolated monocytes/macrophages were also stimulated with LPS (10 ngs/ml) and IL-10 (0, 0.001, 0.01, 0.1, 1, 10, 100 ngs/mL) for 18 hours. After 18 hours, the supernatant is collected and assessed for IL-10 mediated control of inflammatory cytokine secretion. Referring to Fig. 7(b), IL-10 differentially reduced the levels of TNF- α in the donor pool. Approximately 22% were low responders (IL-10 capable of suppressing about 50% TNF- α secretion), 47% were medium responders (IL-10 capable of suppressing about 50-75% TNF- α secretion), and 31% were high responders (IL-10 capable of suppressing about greater than 75% TNF- α secretion).

Donor stratification

Those patients exhibiting both low production of IL-10 (i.e., low and medium IL-10 producer in Fig. 6(a)) and yet respond to IL-10 with the most significant reduction of TNF- α secretion (i.e. high responders in Fig. 6(b)) are the ideal candidates for IL-10 treatment. Approximately 50% of the donors are characterized as low / medium IL-10 producers and of the 50% low / medium IL-10 producers, half are high responders. (Fig. 7). Thus, the population to target would include those patients who have an ability to respond to IL-10 but are unable to endogenously produce high enough levels to treat inflammatory disease. Classification of donors exhibiting these two phenotypic traits will possess a genetic signature or make-up (e.g., gene expression profile and/or mutational frequency in form of SNP and/or INDEL signature) that is correlative to a group of patients that are positively receptive to treatment. (Fig. 8). The gene expression profiles and mutational frequency of those donors exhibiting these two phenotypic traits are then sequenced and the gene expression profile and/or SNP and/or INDEL profile from these donors are assessed to determine genetic patterns. It is those genetic patterns that will be the profile from which patients suffering from inflammatory disease will be most receptive and responsive to the administration of an IL-10 or IL-10 based agent therapy.

Crohn's Disease Assessment

Monocytes/macrophages from Crohn's patients, were isolated and analyzed using (1) the IL-10 production assay and (2) TNF- α response assays. Referring to Fig. 9, all of the Crohn's patients are characterized as low producers of IL-10 (i.e., less than 1000 pg/ml) and 75% of Crohn's patients are characterized as high responders to IL-10 (wherein IL-10 is capable of suppressing about greater than 75% TNF- α secretion).

Accordingly, those patients exhibiting the combined phenotypic traits of low IL-10 induction, production, or secretion and high response to IL-10 (about 50% of the tested Crohn's patients) would have a genetic make-up similar to those screened from the healthy donor population. Thus, the genome of these Crohn's patients are sequenced and the genetic markers (gene expression signature and/or SNP and/or INDEL profile) from these donors are assessed to determine genetic patterns. These patterns are

then cross-referenced with those from the healthy donor genetic profiles to result in a profile of potential target patients eligible and responsive to IL-10 reconstititional therapy.

Example 2

To determine whether patients can be classified/stratified based on their phenotypic response to IL-10 or IL-10 based agent, the monocytes/macrophage and T-cell response assays were used to assess both suppressive and stimulatory responses to IL-10. Multiple fresh donor peripheral blood samples were acquired to assess whether all human monocytes/macrophages and T cells respond to IL-10 in the same manner.

Data from 130 (monocyte) and 129 (CD8+ T cell) donor peripheral blood derived cellular responses to IL-10 suggest that there are differential magnitude of suppressive responses in monocytes to IL-10 and similarly differential magnitude of activating responses in CD8+ T cells to IL-10. See Figures 10A (monocyte) and 10B (T cells). To determine whether these responses were assay related, we procured repeated samples from the same donors. Figure 11 shows the assessment of 3 donor monocyte responses to IL-10, while Figure 12 show the assessment of 3 donor CD8 + T cell stimulatory responses to IL-10.

The data suggest that both monocytes/macrophages and CD8+ T cells responses to IL-10 are consistent across multiple testing time points. These data suggest it is possible that responses to IL-10 are controlled by combinations of donor or patient genetic factors that lead to differential expression profiles.

To evaluate this possibility, we utilized the CD8+ T cell assay to select donor CD8+ T cells that exhibit differential responses to IL-10 to perform next generation sequencing. We binned samples from high, medium and low responding donors to determine if there were any common genes expressed in any of the samples from the grouped responses. The results of the expression profiling analysis is provided in Figure 13. The data illustrates that there are clear clusters of genes expressed in CD8+ T cells, for example from the non-responding donors. The same analysis was also performed on monocytes/macrophages where samples were grouped from high, medium, and low secretion of IL-10 and high medium, and low response to IL-10 (resulting in a reduction of TNF- secretion) in response to a pro-inflammatory stimulus, LPS.

We used the standard human reference genome to assess whether our samples had single nucleotide polymorphisms (SNP's) and/or RNA insertions or deletions (INDELs) via next generation sequencing. We then compiled the above gene expression analysis, SNP's and INDEL's and assessed whether the blended data clustered to known pathways using the Reactome Pathway database.

The blended data for T-cell high responders illustrated the following combined signatures (Table 3), where the genes identified by Hit Count (HC) (i.e., the mRNA expression level), INDEL (ID), and SNP (SNP) are provided:

TABLE 3: CD8+ T cells High Responder	
Molecular Pathway	Genes or expression profiles
gene and protein expression	HC.SERPINB2, ID.PDCD4, SNP.HNRNPF, SNP.SOD2, SNP.STAT4
chemokine receptors binding	HC.CCR1, HC.CXCL13, HC.PPBP, SNP.CCL3L1
other semaphoring interactions	HC.TYROBP, ID.PTPRC, SNP.ITGB1, SNP.PTPRC
interleukin-10 signaling	HC.CCR1, HC.IL1B, SNP.CCL3L1, SNP.CSF2, SNP.TYK2, HC.CXCL10
neutrophil degranulation	HC.HSPA6, HC.KRT1, HC.PPBP, HC.TYROBP, ID.ATP11A, ID.DYNLT1, ID.LPCAT1, ID.PAFAH1B2, ID.PRKCD, ID.PTPRC, ID.RAP1A, SNP.CCT8, SNP.CD300A, SNP.CSNK2B, SNP.CYSTM1, SNP.DEGS1, SNP.ITGAM, SNP.NBEAL2, SNP.NBEAL2, SNP.PSMD3, SNP.PTPRC, SNP.ROCK1, SNP.VPS35L
interleukin-12 signaling	HC.SERPINB2, ID.PDCD4, SNP.HNRNPF, SNP.SOD2, SNP.STAT4, SNP.TYK2
signaling by interleukins	HC.CCR1, HC.IL1B, HC.IL31, HC.IL5, HC.SERPINB2, HC.CXCL10, HC.FOS, HC.IL9 ID.AKT1, ID.MEF2A, ID.PDCD4, SNP.ANXA1, SNP.CCL3L1, SNP.CSF2, SNP.HNRNPF, SNP.ITGAM, SNP.ITGB1, SNP.NFKB1A, SNP.PSMA1, SNP.PSMD3, SNP.SOD2, SNP.STAT4, SNP.STAT6, SNP.STX4, SNP.TYK2 SNP.ANXA1, ID.ANXA1
interleukin-12 family signaling	HC.SERPINB2, ID.PDCD4, SNP.HNRNPF, SNP.SOD2, SNP.STAT4, SNP.TYK2
Activation of ATR in response to replication stress	SNP.ORC3
Activation of the AP-1 family of transcription factors	HC.FOS
Activation of the pre-replicative complex	SNP.ORC3
Assembly of the ORC complex at the origin of replication	SNP.ORC3
CDC6 association with the ORC:origin complex	SNP.ORC3
Defective CYP19A1 causes Aromatase excess syndrome (AEXS)	HC.CYP19A1
DNA Replication Pre-Initiation	SNP.ORC3
E2F-enabled inhibition of pre-replication complex formation	SNP.ORC3
Estrogen-dependent nuclear events downstream of ESR-membrane signaling	HC.FOS
Formyl peptide receptors bind formyl peptides and many other ligands	SNP.ANXA1, ID.ANXA1
G2/M Checkpoints	SNP.ORC3
Hormone ligand-binding receptors	HC.GNRH2
Interleukin-4 and Interleukin-13 signaling	SNP.ANXA1, ID.ANXA1, HC.FOS

Nef mediated downregulation of MHC class I complex cell surface expression	SNP.AP1S3
Tryptophan catabolism	HC.IDO1

The blended data for CD8+ T-cell low responders illustrated the following combined signatures (Table 4):

TABLE 4: CD8+ T cells Low Responders	
Molecular Pathway	Genes or expression profiles
<u>elastic fiber formation</u>	HC.BMP7, ID.ITGAV, SNP.MFAP3
<u>signaling by Notch1</u>	HC.DLK1, ID.NCSTN, SNP.APH1B, SNP.ARB2, SNP.HDAC7, SNP.MAML2, SNP.MYC, SNP.PSEN2, SNP.UBA52
<u>activated Notch1 transmission</u>	HC.DLK1, ID.NCSTN, SNP.APH1B, SNP.ARRB2, SNP.PSEN2, SNP.UBA52
CRMPs in Sema3A signaling	HC.DPYSL5
POU5F1 (OCT4), SOX2, NANOG activate genes related to proliferation/differentiation	HC.SOX2
Transcriptional regulation of pluripotent stem cells	HC.LIN28A, HC.SOX2

The blended data for Monocyte/Macrophage High IL-10 Production/Secretion illustrated the following combined signatures (Table 5):

TABLE 5: Monocyte/Macrophage cells High Producers/Secretors	
Molecular Pathway	Genes or expression profiles
Activation, translocation and oligomerization of BAX	SNP.BAX, SNP.BID
APC truncation mutants have impaired AXIN binding	SNP.GSK3B, ID.GSK3B, SNP.PPP2CB, ID.PPP2CB, SNP.PPP2R1A, SNP.PPP2R5C, ID.PPP2R5C
AXIN missense mutants destabilize the destruction complex	SNP.GSK3B, ID.GSK3B, SNP.PPP2CB, ID.PPP2CB, SNP.PPP2R1A, SNP.PPP2R5C, ID.PPP2R5C
GLI proteins bind promoters of Hh responsive genes to promote transcription	HC.GLI1, HC.PTCH2
LGI-ADAM interactions	HC.ADAM11, HC.ADAM23, HC.LGI4, HC.STX1A
Loss of MECP2 binding ability to 5hmC-DNA	SNP.MECP2
Loss of MECP2 binding ability to the NCoR/SMRT complex	SNP.MECP2, SNP.NCOR1, ID.NCOR1
MECP2 regulates transcription of genes involved in GABA signaling	SNP.MECP2, HC.GAD1
Negative regulation of MAPK pathway	SNP.KRAS, ID.KRAS, SNP.KSR1, SNP.PPP2CB, ID.PPP2CB, SNP.PPP2R1A, SNP.PPP2R5C, ID.PPP2R5C, SNP.RAF1, ID.RAF1
Regulation of MECP2 expression and activity	SNP.AGO3, ID.AGO3, SNP.MECP2, SNP.NCOR1, ID.NCOR1, SNP.TNRC6B, HC.CAMK2A
TICAM1, RIP1-mediated IKK complex recruitment	SNP.BIRC2, ID.BIRC2, SNP.TRAF6, SNP.UBE2D2

truncated APC mutants destabilize the destruction complex	SNP.GSK3B, ID.GSK3B, SNP.PPP2CB, ID.PPP2CB, SNP.PPP2R1A, SNP.PPP2R5C, ID.PPP2R5C

The blended data for Monocyte/Macrophage Low IL-10 Production/Secretion illustrated the following combined signatures (Table 6):

TABLE 6: Monocyte/Macrophage cells Low Secretors	
Molecular Pathway	Genes or expression profiles
Chemokine receptors bind chemokines	HC.CCL19, HC.CCR9, HC.CXCL11, HC.CXCL5, HC.CXCL6
Hemostasis	SNP.FAM3C, HC.EGF, HC.EHD3, HC.ESAM, HC.F2RL3, HC.HBG1, HC.IGF2, HC.IGLV2-8, HC.ITGB3, HC.KIF28P, HC.MMRN1, HC.PF4V1, HC.PLA2G4A, HC.SELP, HC.SERPINE2, HC.SLC7A11, HC.SLC8A3, HC.THBS1
Hydrolysis of LPC	HC.PLA2G4A
Insulin-like Growth Factor-2 mRNA Binding Proteins (IGF2BPs/IMPs/VICKZs) bind RNA	HC.IGF2
Interleukin-35 Signaling	HC.EBI3
Molecules associated with elastic fibers	V.MFAP3, HC.ITGB3, HC.LTBP1
Non-integrin membrane-ECM interactions	HC.FGF2, HC.ITGB3, HC.THBS1
Peptide ligand-binding receptors	HC.AVPR1A, HC.CCL19, HC.CCL23, HC.CCR9, HC.CXCL11, HC.CXCL5, HC.CXCL6, HC.F2RL3, HC.XK
Platelet degranulation	SNP.FAM3C, HC.EGF, HC.IGF2, HC.ITGB3, HC.MMRN1, HC.SELP, HC.THBS1
Regulation of beta-cell development	HC.HNF1B, HC.NR5A2
Regulation of gene expression in early pancreatic precursor cells	HC.HNF1B, HC.NR5A2
Response to elevated platelet cytosolic Ca ²⁺	SNP.FAM3C, HC.EGF, HC.IGF2, HC.ITGB3, HC.MMRN1, HC.SELP, HC.THBS1
RUNX1 and FOXP3 control the development of regulatory T lymphocytes (Tregs)	SNP.IL2RA, HC.IL2RA
Syndecan interactions	HC.FGF2, HC.ITGB3, HC.THBS1

The blended data for Monocyte/Macrophage High IL-10 Response illustrated the following combined signatures (Table 7):

TABLE 7: Monocyte/Macrophage cells High Responders	
Molecular Pathway	Genes or expression profiles
Attenuation phase	SNP.DNAJB1, SNP.HSPA1L, SNP.HSPH1, HC.DNAJB1, HC.FKBP4, HC.HSPA1A, HC.HSPA1B, HC.HSPA1L, HC.HSPA6, HC.HSPH1, HC.SERPINH1
Cellular response to heat stress	SNP.DNAJB1, SNP.HSPA1L, SNP.HSPH1, SNP.POM121, SNP.SEC13, HC.BAG3, HC.CAMK2A, HC.DNAJB1, HC.FKBP4, HC.HSPA1A, HC.HSPA1B, HC.HSPA1L, HC.HSPA6, HC.HSPA7, HC.HSPH1, HC.SERPINH1
HSF1 activation	SNP.DNAJB1, SNP.HSPA1L, SNP.HSPH1, HC.DNAJB1, HC.FKBP4, HC.HSPA1A, HC.HSPA1B, HC.HSPA1L, HC.HSPA6, HC.HSPH1, HC.SERPINH1

HSF1-dependent transactivation	SNP.DNAJB1, SNP.HSPA1L, SNP.HSPH1, HC.CAMK2A, HC.DNAJB1, HC.FKBP4, HC.HSPA1A, HC.HSPA1B, HC.HSPA1L, HC.HSPA6, HC.HSPH1, HC.SERPINH1
Negative regulation of NMDA receptor-mediated neuronal transmission	SNP.LRR7, SNP.PPM1F, HC.ACTN2, HC.CAMK1, HC.CAMK2A, HC.DLG2, HC.GRIN2C, HC.GRIN2D
Regulation of HSF1-mediated heat shock response	SNP.DNAJB1, SNP.HSPA1L, SNP.HSPH1, SNP.POM121, SNP.SEC13, HC.BAG3, HC.DNAJB1, HC.FKBP4, HC.HSPA1A, HC.HSPA1B, HC.HSPA1L, HC.HSPA6, HC.HSPA7, HC.HSPH1, HC.SERPINH1

The blended data for Monocyte/Macrophage Low IL-10 Response illustrated the following combined signatures (Table 8):

TABLE 8: Monocyte/Macrophage cells Low Responders	
Molecular Pathway	Genes or expression profiles
Classical antibody-mediated complement activation	HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
Competing endogenous RNAs (ceRNAs) regulate PTEN translation	SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C
Creation of C4 and C2 activators	HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
Defective LMBRD1 causes methylmalonic aciduria and homocystinuria type cblF	SNP.LMBRD1
FCERI mediated Ca ²⁺ mobilization	SNP.TXK, HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
FCERI mediated MAPK activation	SNP.NRAS, HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
FCGR activation	HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
NR1H3 & NR1H2 regulate gene expression linked to cholesterol transport and efflux	SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C, HC.APOC1
Post-transcriptional silencing by small RNAs	SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C
Receptor-type tyrosine-protein phosphatases	HC.PTPRD
Regulation of MECP2 expression and activity	SNP.HDAC2, SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C
Regulation of RUNX1 Expression and Activity	SNP.CCND3, SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C
Role of LAT2/NTAL/LAB on calcium mobilization	HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
Scavenging of heme from plasma	HC.IGKV1D-16, HC.IGLV3-25, HC.IGLV4-69, HC.IGLV7-46
Signaling by BMP	SNP.BMP2, HC.NOG
Transcriptional regulation by RUNX1	SNP.CCND3, SNP.CDK7, SNP.DPY30, SNP.PBRM1, SNP.PHC3, SNP.TNRC6B, SNP.TNRC6C, ID.TNRC6C, HC.TP73
Vitamin B2 (riboflavin) metabolism	HC.SLC52A1

The genome wide mutational frequencies were also assessed in CD8+ T cells and monocytes/macrophages that correlated to high and low responders to IL-10 in CD8+ T cells; high and low secretors of IL-10 in monocytes/macrophages following pro-inflammatory stimulus; and high and low responders to IL-10 following pro-inflammatory stimulus. The following tables 9-14 provide the gene, chromosome, chromosomal position, the reference sequence/nucleotide, and the mutations or alternative sequence (SNP or INDEL).

Table 9: T Cell High Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ORC3	6	87657364	C	T
ORC3	6	87595361	A	G
ORC3	6	87657053	A	G
ORC3	6	87657917	A	C
ORC3	6	87590182	C	G
ORC3	6	87639278	T	G
ORC3	6	87648031	G	C
ORC3	6	87656990	C	T
ORC3	6	87657150	T	C
ORC3	6	87606642	A	G
ORC3	6	87606663	A	G
ORC3	6	87667206	C	G
ORC3	6	87667228	T	C
ORC3	6	87609165	G	A
ORC3	6	87653225	C	T
ORC3	6	87667331	T	C
ORC3	6	87605971	A	G
ORC3	6	87612114	A	G
ORC3	6	87657380	T	C
ORC3	6	87606589	A	G
ORC3	6	87657842	T	C
ORC3	6	87603486	C	A
ANXA1	9	73160319	A	G
ANXA1	9	73169021	A	G
ANXA1	9	73169348	G	A
ANXA1	9	73169411	C	A
ANXA1	9	73165616	C	T
ANXA1	9	73165783	G	A
ANXA1	9	73167594	G	A
ANXA1	9	73167739	T	C
ANXA1	9	73166829	G	T
ANXA1	9	73167215	A	G
ANXA1	9	73168880	GGT	G
ANXA1	9	73168595	A	G
ANXA1	9	73170098	A	C
ANXA1	9	73166318	C	A
ANXA1	9	73154569	G	T
ANXA1	9	73167822	G	A
ANXA1	9	73167639	C	G
ANXA1	9	73151922	A	G
ANXA1	9	73156398	G	C
ANXA1	9	73165798	G	A
ANXA1	9	73168547	A	G
GPAT3	4	83597476	C	T

Table 9: T Cell High Responder SNP / INDEL				
Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GPAT3	4	83605122	T	C
GPAT3	4	83605420	A	G
GPAT3	4	83605614	C	T
GPAT3	4	83605383	C	T
GPAT3	4	83604820	CT	C
GPAT3	4	83605707	A	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ABCE1	4	145121293	G	C
ABCE1	4	145127431	T	G
ABCE1	4	145120357	C	A
ABCE1	4	145128000	CAA	C
ABCE1	4	145112254	G	A
ABCE1	4	145128631	C	G
AC004890.1	7	149191122	A	G
AC004890.1	7	149191124	G	A
AC005052.2	X	119805539	G	A
AC005052.2	X	119805593	C	T
AC005052.2	X	119798987	G	A
AC007728.2	16	50735351	C	G
AC007728.2	16	50740777	G	A
AC007728.2	16	50735652	A	G
AC007728.2	16	50742651	G	C
AC007993.2	17	43927692	A	C
AC007993.2	17	43928373	T	C
AC008581.2	5	77075294	T	C
AC008581.2	5	77075002	T	C
AC008581.2	5	77077025	G	A
AC008728.1	5	146600447	C	T
AC008728.1	5	146589716	G	C
AC008969.1	19	58004862	T	C
AC008969.1	19	58005620	T	C
AC008969.1	19	58006609	T	C
AC008969.1	19	58006800	A	G
AC008969.1	19	58006839	G	C
AC009113.1	16	89216939	C	G
AC009113.1	16	89217377	A	G
AC009113.1	16	89217401	A	G
AC010487.1	19	52923594	T	C
AC010487.1	19	52923492	C	T
AC010547.4	16	71475782	C	G
AC010547.4	16	71475685	G	A
AC010547.4	16	71475731	G	C
AC010547.4	16	71475893	C	G
AC011043.2	GL000195.1	176700	T	G
AC011043.2	GL000195.1	176704	C	G
AC011043.2	GL000195.1	176705	T	C
AC011270.2	15	78340488	C	G
AC011499.1	19	5785102	C	T
AC011499.1	19	5785438	C	T
AC015712.1	15	100849861	A	G
AC015712.1	15	100849830	T	G
AC015712.1	15	100849879	C	G
AC016355.1	15	67542167	T	C
AC016355.1	15	67542213	A	G
AC016355.1	15	67542218	T	C
AC016588.2	19	250420	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC016588.2	19	251244	A	T
AC016588.2	19	251430	G	C
AC022730.3	8	70471371	C	A
AC022730.3	8	70471289	T	C
AC022730.3	8	70471469	AAACAAC	A
AC023509.3	12	53500823	C	G
AC023509.3	12	53500681	G	A
AC025165.6	12	57623918	T	G
AC025165.6	12	57625689	T	G
AC026150.2	15	30517792	G	C
AC034231.1	5	33440518	C	T
AC034231.1	5	33438271	A	C
AC034231.1	5	33440046	T	C
AC060780.1	17	43170834	G	T
AC060780.1	17	43170921	T	A
AC060780.1	17	43170726	G	T
AC073834.1	2	177617090	G	T
AC073834.1	2	177615586	T	C
AC090204.1	8	32996266	T	G
AC090204.1	8	33041634	G	T
AC092944.1	3	157189503	TAAAC	T
AC092944.1	3	157239682	G	A
AC092944.1	3	157188386	T	C
AC092944.1	3	157188425	G	A
AC092944.1	3	157188442	T	C
AC092944.1	3	157188895	C	T
AC092944.1	3	157196001	A	G
AC092944.1	3	157196499	G	A
AC097369.4	3	72740040	G	A
AC099489.1	16	11385184	A	G
AC099489.1	16	11384291	A	G
AC116407.1	17	32142595	C	T
AC124944.2	3	195937009	T	C
AC124944.2	3	195937462	A	T
AC124944.2	3	195937479	T	G
AC124944.2	3	195937573	A	G
AC124944.2	3	195944005	A	C
AC124944.2	3	195944205	C	A
AC124944.2	3	195944220	T	C
AC124944.2	3	195944221	G	A
AC124944.2	3	195944448	C	C
AC124944.2	3	195944573	A	C
AC124944.2	3	195947869	T	A
AC124944.2	3	195952603	T	A
AC124944.2	3	195952766	G	A
AC124944.2	3	195952995	A	C
AC124944.2	3	195953299	A	C
AC124944.2	3	195944572	T	C
AC124944.2	3	195944575	A	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC140504.1	16	15434566	G	T
AC140504.1	16	15481743	A	G
AC145098.1	5	177503134	C	A
AC145098.1	5	177502129	C	T
AC145098.1	5	177502581	C	T
AC233280.36	3	195636066	T	G
AC233280.36	3	195636101	C	CG
AC239800.2	1	143736824	A	G
AC239800.2	1	143736839	C	T
AC239804.1	1	149049802	A	G
AC239804.1	1	149050114	G	A
AC243562.2	15	84394504	C	T
AC243562.2	15	84394543	G	A
AC243562.2	15	84394837	A	G
AC246817.2	8	2705232	G	T
AC246817.2	8	2705248	T	C
AC254562.2	22	42138945	A	G
AC254562.2	22	42137896	G	A
AC254562.2	22	42138042	G	A
AC254562.2	22	42138066	A	G
ADAMTS14	10	70753879	C	A
ADAMTS14	10	70761200	A	G
ADGRF3	2	26308528	C	T
ADGRF3	2	26308649	T	C
ADGRF3	2	26313826	C	T
AJ009632.2	21	15423099	C	T
AJ009632.2	21	15425772	G	T
AL022345.4	10	42638638	C	A
AL022345.4	10	42645040	G	A
AL023653.1	X	129795786	G	A
AL023653.1	X	129796542	T	C
AL035413.2	1	19262068	A	T
AL035413.2	1	19260670	T	G
AL035413.2	1	19261384	T	C
AL133355.1	10	103878474	T	C
AL133355.1	10	103879663	G	A
AL133355.1	10	103879483	A	G
AL158212.5	10	112820392	A	T
AL158212.5	10	112819116	C	T
AL158212.5	10	112819235	G	A
AL355312.5	6	149863012	A	C
AL355312.5	6	149863746	G	C
AL359644.1	9	121429453	C	T
AL359644.1	9	121429564	C	A
AL512308.1	6	475810	A	G
AL512308.1	6	476143	A	G
AL512308.1	6	476953	C	T
AL512308.1	6	477738	C	T
AL512380.2	6	21594474	C	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL512380.2	6	21594406	C	T
AL512380.2	6	21594125	GA	G
AL596214.1	1	89525082	C	C
AL596214.1	1	89525155	A	T
AL596214.1	1	89524961	G	A
AL596214.1	1	89524974	C	A
AL596214.1	1	89525128	A	G
AL596214.1	1	89525212	T	C
AL596214.1	1	89525357	G	A
AL606534.4	1	243055930	C	A
AL606534.4	1	243055964	T	C
ANXA1	9	73160319	A	G
ANXA1	9	73167594	G	A
ANXA1	9	73167739	T	C
ANXA1	9	73169021	A	G
ANXA1	9	73151922	A	G
AP000944.1	11	65372154	T	C
AP000944.1	11	65372373	C	T
AP000944.1	11	65373847	T	C
AP000944.1	11	65374414	T	C
AP000944.1	11	65374784	T	C
AP000944.1	11	65374845	T	C
AP000944.1	11	65373069	T	C
AP000944.1	11	65373193	T	C
AP000944.1	11	65371695	A	G
AP000944.1	11	65373007	T	C
AP000944.1	11	65373034	T	C
AP000944.1	11	65371954	T	C
AP000944.1	11	65373787	T	C
AP000944.1	11	65371683	T	C
AP000944.5	11	65305593	A	G
AP000944.5	11	65305615	A	G
AP000977.1	11	121449848	C	A
AP000977.1	11	121452568	G	A
AP000977.1	11	121452768	G	C
AP001025.1	18	3312374	G	C
AP001025.1	18	3312377	C	T
AP002373.1	11	114439585	A	G
ARL9	4	56505911	G	A
ARL9	4	56511211	G	A
ARL9	4	56506077	A	G
ASPRV1	2	69961544	T	C
BRSK2	11	1461258	T	C
BRSK2	11	1461352	T	C
C18orf32	18	49487209	G	A
C18orf32	18	49481999	C	G
C18orf32	18	49487113	C	T
C18orf32	18	49481890	CATT	C
C18orf32	18	49478199	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
C2	6	31901161	C	T
C2	6	31900529	C	T
C2CD4C	19	405929	T	C
C2CD4C	19	406370	T	C
C2orf72	2	231048135	G	A
C2orf72	2	231048341	C	T
C2orf72	2	231048680	G	T
CAMSAP2	1	200860231	T	A
CAMSAP2	1	200860232	T	A
CAPN5	11	77125304	T	C
CAPN5	11	77084916	C	G
CAPN5	11	77093683	G	A
CAPN5	11	77125515	T	A
CBX3P2	18	2652880	T	G
CBX3P2	18	2652394	T	C
CCDC154	16	1434472	A	G
CCDC154	16	1434527	G	A
CCND1	11	69654301	A	G
CCND1	11	69648142	G	A
CD160	1	145729160	G	T
CD160	1	145738392	C	T
CD160	1	145728397	G	C
CD160	1	145727346	AT	A
CD68	17	7582035	G	C
CDH1	16	68765525	A	T
CDH1	16	68823538	T	C
CDKN2AIPNL	5	134402636	TGAAAACA	T
CDKN2AIPNL	5	134411663	C	G
CDKN2AIPNL	5	134402642	C	G
CDKN2AIPNL	5	134402843	T	G
CDKN2AIPNL	5	134402808	T	G
CELA1	12	51328527	C	T
CELA1	12	51329715	T	C
CFAP54	12	96742440	T	C
CFAP54	12	96742461	G	A
CLIC3	9	136995275	G	A
CLIC3	9	136995653	C	G
COL4A2	13	110501711	T	A
COL4A2	13	110501714	T	C
COX5B	2	97646107	C	T
CPLANE1	5	37106888	A	T
CPLANE1	5	37170076	T	C
CPLANE1	5	37173828	A	C
CPLANE1	5	37165545	T	G
CPLANE1	5	37224712	T	TT
CPLANE1	5	37115020	CT	C
CR381653.1	21	9325201	GGCGGGCAGGGCCTGAAG T (SEQ ID No: 52)	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CR381653.1	21	9325204	G	A
CR381653.1	21	9327285	T	C
CR381653.1	21	9325152	C	A
CR381653.1	21	9325193	A	G
CRIP2	14	105479001	C	G
CRIP2	14	105479462	G	C
CU633906.2	21	6318503	A	G
CU633906.2	21	6320922	T	C
CU633906.2	21	6320927	G	T
CU633906.2	21	6324489	A	C
CU633906.2	21	6327334	C	T
CU633906.2	21	6327454	C	T
CU633906.2	21	6327570	C	G
CU633906.2	21	6327646	G	T
CU633906.2	21	6327899	A	T
CU633906.2	21	6327907	T	C
CU633906.2	21	6328295	G	A
CU633906.2	21	6328771	T	A
CU633906.2	21	6328941	T	C
CU633906.2	21	6328946	C	G
CU633906.2	21	6329171	A	T
CU633906.2	21	6329190	A	T
CU633906.2	21	6329639	C	G
CU633906.2	21	6328226	A	G
CU633906.2	21	6329777	G	A
CU638689.4	21	6659936	T	A
CU638689.4	21	6659955	T	A
CU638689.4	21	6660482	T	C
CU638689.4	21	6660831	C	T
CU638689.4	21	6660900	T	C
CU638689.4	21	6661219	A	G
CU638689.4	21	6661227	T	A
CU638689.4	21	6661480	C	A
CU638689.4	21	6661556	G	C
CU638689.4	21	6661672	G	A
CU638689.4	21	6661792	G	A
CU638689.4	21	6662357	A	T
CU638689.4	21	6662486	A	C
CU638689.4	21	6664637	T	G
CU638689.4	21	6668163	A	G
CU638689.4	21	6668199	C	A
CU638689.4	21	6668204	A	G
CU638689.4	21	6632025	A	G
CU638689.4	21	6632026	G	C
CU638689.4	21	6632030	A	C
CU638689.4	21	6670584	G	A
CU638689.4	21	6670555	A	G
CU638689.4	21	6670605	C	G
CU638689.4	21	6634613	T	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CUBN	10	17110995	G	A
CUBN	10	16876998	T	C
CYB561D2	3	50353736	C	T
CYB561D2	3	50350952	C	A
CYB561D2	3	50351176	C	A
CYB561D2	3	50353429	G	A
DACT1	14	58647681	T	A
DACT1	14	58647729	C	T
DACT1	14	58647675	TGTTA	T
DACT1	14	58646819	C	G
DNAI4	1	66924733	G	C
DNAI4	1	66924785	C	G
DNAJB13	11	73968174	G	C
DNAJB13	11	73968187	A	G
DNAJB13	11	73969006	C	T
DNAJB13	11	73969018	G	A
DNAJB13	11	73969083	T	G
DNAJB13	11	73970045	C	T
DNAJB13	11	73967527	T	C
DNAJB13	11	73967572	T	C
DNAJB13	11	73970302	T	C
DOK7	4	3493719	C	T
DOK7	4	3493750	T	C
DOK7	4	3493099	A	C
DOK7	4	3493120	G	A
DOK7	4	3493171	C	T
DOK7	4	3494214	T	C
DSCAS	18	31128253	A	G
DSCAS	18	31127714	C	T
DSCAS	18	31130652	C	A
DSCAS	18	31130656	C	A
DSCAS	18	31142140	T	C
DSCAS	18	31142170	T	C
DUXAP10	14	19325088	G	A
DUXAP10	14	19325226	C	G
FAM171A1	10	15213293	G	A
FAM171A1	10	15211758	CT	C
FAM171A1	10	15254793	G	A
FAM171A1	10	15214195	G	A
FAM171A1	10	15212573	C	T
FAM171A1	10	15371072	G	A
FBXL19-AS1	16	30919896	T	G
FBXL19-AS1	16	30920647	C	T
FBXL19-AS1	16	30919662	C	T
FBXO15	18	74130466	T	C
FBXO15	18	74130467	T	C
FBXO15	18	74073508	A	G
FBXO15	18	74073620	G	T
FNDC10	1	1599234	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FNDC10	1	1599330	G	C
FNDC10	1	1598942	GCA	G
FNDC10	1	1598377	C	T
GABBR1	6	29608616	A	G
GABBR1	6	29603064	A	G
GABBR1	6	29613264	A	G
GABBR1	6	29632327	G	A
GABBR1	6	29602539	G	A
GABBR1	6	29613333	A	G
GABBR1	6	29613336	A	G
GAS6	13	113849007	C	A
GAS6	13	113849020	T	C
GAS6	13	113849066	T	C
GAS6	13	113854965	A	G
GAS6	13	113855164	T	C
GAS6	13	113855448	A	G
GAS6	13	113855655	C	T
GAS6	13	113856449	A	G
GAS6	13	113846932	C	T
GAS6	13	113846936	G	T
GAS6	13	113846957	G	A
GAS6	13	113847354	A	G
GCNT2	6	10528561	T	C
GCNT2	6	10528781	A	G
GCNT2	6	10529216	C	G
GCNT2	6	10627781	T	C
GCNT2	6	10528886	A	C
GGCTP1	5	95834979	C	T
GGCTP1	5	95835015	C	T
GGCTP1	5	95834919	C	G
GP5	3	194396225	C	T
GP5	3	194396262	A	G
GP5	3	194396266	C	A
GP5	3	194395920	T	C
GPAT3	4	83604820	CT	C
GPAT3	4	83605122	T	C
GPAT3	4	83605383	C	T
GPAT3	4	83605420	A	G
GPAT3	4	83598675	G	A
GPC2	7	100171334	C	T
GPC2	7	100172183	G	CC
H3C8	6	26271002	G	A
H3C8	6	26271811	A	G
HAR1B	20	63102535	A	G
HAR1B	20	63102289	T	C
HEMGN	9	97927168	(various)	T
HEMGN	9	97927411	A	G
HEMGN	9	97927260	G	A
HEMGN	9	97931105	A	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HEMGN	9	97938372	C	T
HSD17B14	19	48815123	G	A
HSPA4L	4	127813114	C	T
HSPA4L	4	127813128	T	C
HSPA4L	4	127801887	T	C
HSPD1P4	12	56512141	C	T
HSPD1P4	12	56511652	A	G
IDUA	4	1000626	G	A
IDUA	4	1001517	T	C
IDUA	4	1002131	G	C
IDUA	4	1002377	G	A
IDUA	4	1002460	G	C
IDUA	4	1002772	C	G
IDUA	4	1002902	G	A
IDUA	4	1003100	C	T
IDUA	4	1003307	T	C
IDUA	4	995317	A	G
IDUA	4	993916	A	G
IGHV3-30	14	106335196	A	G
IGHV3-30	14	106335208	A	G
IGHV3-30	14	106335277	G	A
IGHV3-30	14	106335278	C	G
IGKV1-16	2	89100086	T	A
IGKV1-16	2	89100093	G	A
IGKV1-9	2	89010238	A	G
IGKV1-9	2	89010265	T	G
KALRN	3	124650824	C	T
KALRN	3	124667095	T	C
KALRN	3	124667113	C	T
KCNMB4	12	70409890	T	G
KCNMB4	12	70409894	G	A
KCNMB4	12	70409970	C	T
KCNMB4	12	70409971	A	G
KCTD3	1	215620492	G	A
KCTD3	1	215619193	C	G
KLF5	13	73075974	C	A
KLF5	13	73075979	G	A
KLHL33	14	20427487	T	C
KLHL33	14	20427510	C	G
KLHL33	14	20427634	G	T
KLHL33	14	20427653	G	C
KLHL33	14	20428669	T	C
KLHL33	14	20428698	C	T
KLHL33	14	20428051	G	C
KLHL33	14	20429517	T	C
KLHL33	14	20426919	A	G
KLHL33	14	20426926	G	A
KLHL33	14	20428905	C	T
KLHL33	14	20427696	G	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KLHL33	14	20428650	T	C
KLHL33	14	20428039	A	C
KLHL33	14	20428085	C	T
KLHL33	14	20428086	T	C
KLHL33	14	20428097	A	G
KLHL33	14	20428365	G	A
KLHL33	14	20428299	C	T
KLHL4	X	87531294	T	G
KRT17P1	17	16841364	C	T
KRT17P1	17	16841431	G	A
KRT17P1	17	16841479	A	T
KRT17P1	17	16841800	T	A
KRT17P1	17	16845468	C	A
KRT17P1	17	16845471	T	C
KRT17P1	17	16841002	C	T
KRT17P1	17	16841778	G	A
KRT86	12	52291118	C	T
KRT86	12	52301970	C	T
KRT86	12	52302003	C	T
KRT86	12	52305764	T	C
L1TD1	1	62196484	G	C
L1TD1	1	62207365	T	C
L3MBTL1	20	43547670	T	C
L3MBTL1	20	43547683	G	A
L3MBTL1	20	43547767	G	C
LINC00200	10	1213461	A	G
LINC00200	10	1185028	C	T
LINC00200	10	1221745	A	G
LINC00200	10	1210692	C	T
LINC00200	10	1210951	G	A
LINC00200	10	1213545	A	G
LINC00200	10	1213869	A	G
LINC00486	2	32916334	A	G
LINC00486	2	32916338	A	G
LINC00551	13	106568486	C	T
LINC00551	13	106568505	G	A
LINC00638	14	104821752	A	G
LINC00638	14	104822957	C	T
LINC00921	16	3267178	C	T
LINC01597	20	30279542	A	G
LINC01597	20	30287431	G	A
LINC01597	20	30289467	C	T
LINC01597	20	30287288	C	A
LINC01597	20	30287348	C	T
LINC01597	20	30284780	C	T
LINC02193	16	90216135	C	G
LPL	8	19965319	G	A
LPL	8	19962177	T	C
LPL	8	19954260	G	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LSMEM2	3	50288084	TA	T
LZTS1	8	20248869	C	A
LZTS1	8	20303818	C	T
LZTS1	8	20247646	G	C
LZTS1	8	20249363	A	G
MICD	6	29970897	G	C
MICD	6	29971076	T	G
MICD	6	29971155	T	C
MICD	6	29971335	C	G
MICD	6	29971371	A	T
MICD	6	29971463	G	A
MICD	6	29971900	A	T
MICD	6	29972075	A	G
MICD	6	29972108	G	A
MOCOS	18	36205222	A	G
MOCOS	18	36248953	A	G
MRPL15	8	54135261	G	T
MRPL15	8	54135366	A	T
MTRNR2L12	3	96617838	A	G
MTRNR2L12	3	96617850	T	C
MTRNR2L12	3	96618006	C	T
MTRNR2L12	3	96618018	T	C
MTRNR2L12	3	96618023	T	C
NDUFB6	9	32573149	C	G
NEBL	10	20781464	G	A
NEBL	10	20782262	G	C
NOTUM	17	81954288	G	A
NP1PA3	16	14714909	C	T
NP1PA3	16	14714940	C	T
NP1PA3	16	14720216	G	A
NP1PA3	16	14726039	C	T
NPRL2	3	50350442	C	T
NPRL2	3	50348958	C	T
NPRL2	3	50350494	G	A
NPRL2	3	50350656	A	C
NPRL2	3	50347546	AC	A
ORC3	6	87656990	C	T
ORC3	6	87657053	A	G
ORC3	6	87657364	C	T
ORC3	6	87653225	C	T
ORC3	6	87612235	C	T
ORC3	6	87609165	G	A
ORC3	6	87667331	T	C
ORC3	6	87667206	C	G
ORC3	6	87667228	T	C
OSBP2	22	30886906	C	T
OSBP2	22	30888946	A	G
OSBP2	22	30870559	T	C
OSBP2	22	30889693	G	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
OSBP2	22	30887732	C	G
OSBP2	22	30889149	T	C
PARP11-AS1	12	3910028	T	C
PARP11-AS1	12	3910094	C	T
PEX11B	1	145911586	A	T
PEX11B	1	145918681	G	C
PEX11B	1	145911797	A	C
PHKA2-AS1	X	18892806	C	T
PNPLA4	X	7921803	G	C
PNPLA4	X	7927298	G	A
PODXL2	3	127672535	G	A
PODXL2	3	127672175	A	G
PODXL2	3	127672348	G	A
PPP1R2P1	6	32879532	GC	G
PPP2R5D	6	43011742	CAGAGTAGCTGAA (SEQ ID No: 53)	C
PPP2R5D	6	43006469	C	G
PPP2R5D	6	43006471	G	C
PPP2R5D	6	43006477	C	G
PPP2R5D	6	43012040	G	A
PPP2R5D	6	43011769	C	A
PRDM5	4	120838534	T	C
PRDM5	4	120693658	A	C
PRR22	19	5783894	G	A
PRR22	19	5783623	T	C
PRR22	19	5783701	C	T
RAP1GAP2	17	2965641	T	C
RAP1GAP2	17	3026098	G	A
RAP1GAP2	17	3026380	T	C
RAP1GAP2	17	3027045	G	A
RAP1GAP2	17	3033476	T	C
RAP1GAP2	17	3033490	G	A
RAP1GAP2	17	3035776	G	A
RAPGEF3	12	47751142	T	C
RCCD1-AS1	15	90955063	G	A
RCCD1-AS1	15	90955051	C	T
RCCD1-AS1	15	90954897	G	A
RCCD1-AS1	15	90954900	T	C
RNF208	9	137221573	C	T
RNF208	9	137221102	G	A
RPL32P3	3	129396418	A	AA
RPL32P3	3	129399153	C	G
RUSC2	9	35490161	G	A
RUSC2	9	35547939	C	T
SAMD13	1	84350440	C	T
SCARB2	4	76213633	C	T
SCARB2	4	76213717	G	A
SDF2	17	28655323	A	G
SDF2	17	28661834	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SDF2	17	28649053	A	G
SDF2	17	28662058	C	G
SEC22B2P	1	149354143	C	T
SEC22B2P	1	149357543	T	C
SEC22B2P	1	149357533	A	G
SEPTIN7-DT	7	35793933	A	G
SEPTIN7-DT	7	35799758	C	A
SERP2	13	44397581	T	C
SIAH1	16	48385363	C	T
SLC22A23	6	3303801	C	G
SLC22A23	6	3303871	G	A
SLC25A25-AS1	9	128110112	G	C
SLC25A25-AS1	9	128111356	G	A
SLC25A25-AS1	9	128118358	A	G
SLC25A25-AS1	9	128118550	G	A
SLC25A25-AS1	9	128115262	C	T
SMG1P4	16	21898947	C	T
SMG1P4	16	21886385	T	G
SMG1P4	16	21890851	C	T
SMG1P4	16	21895489	T	G
SMG1P4	16	21901591	T	G
SMG1P4	16	21904530	C	T
SMG1P4	16	21903460	C	T
ST3GAL6	3	98796272	A	C
ST3GAL6	3	98798137	T	G
ST3GAL6	3	98798169	T	C
STARD7-AS1	2	96241922	G	A
STARD7-AS1	2	96208852	T	C
STARD7-AS1	2	96208853	T	C
STARD7-AS1	2	96208888	C	A
TAF1A1	3	68545168	G	A
TAF1A1	3	68544701	A	G
TCAP	17	39666058	A	C
TPTE2	13	19426490	T	C
TRAJ45	14	22493938	A	C
TRAJ45	14	22493934	G	T
TRAJ45	14	22493935	A	T
TRAJ7	14	22537623	G	T
TRAJ7	14	22537624	A	G
TRBV3-1	7	142308933	G	A
TRBV3-1	7	142308558	C	T
TRGJ2	7	38253414	T	C
TRGJ2	7	38253415	T	C
TRGJ2	7	38253390	A	C
TRGJ2	7	38253423	A	G
TRGV6	7	38340845	T	C
TRGV6	7	38340886	C	T
TSFM	12	57802664	G	A
TSFM	12	57802745	G	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TSPEAR	21	44554298	G	C
TSPEAR	21	44553519	T	C
TSPEAR	21	44553995	C	T
TSPEAR	21	44554286	G	C
TSPEAR	21	44554443	C	T
TSPEAR	21	44554446	A	G
TSPEAR	21	44553348	T	A
TSPEAR	21	44554023	G	A
TSPEAR	21	44554645	G	T
TSPEAR	21	44554646	A	G
TSPEAR	21	44554788	T	C
TSPEAR	21	44554897	A	C
TSPEAR	21	44553750	A	G
TUSC2	3	50324940	G	A
TUSC2	3	50325325	T	C
TUSC2	3	50325592	G	A
TUSC2	3	50325978	G	A
UNKNOWN.1.110657523	1	110657523	G	C
UNKNOWN.1.116773257	1	116773257	T	C
UNKNOWN.1.120912555	1	120912555	T	C
UNKNOWN.1.120913015	1	120913015	G	A
UNKNOWN.1.136645	1	136645	G	C
UNKNOWN.1.147076556	1	147076556	A	G
UNKNOWN.1.149172459	1	149172459	A	G
UNKNOWN.1.151854041	1	151854041	A	C
UNKNOWN.1.151854066	1	151854066	A	G
UNKNOWN.1.151854251	1	151854251	A	G
UNKNOWN.1.156504143	1	156504143	A	C
UNKNOWN.1.156587465	1	156587465	A	C
UNKNOWN.1.156805133	1	156805133	T	C
UNKNOWN.1.156805147	1	156805147	T	C
UNKNOWN.1.156805578	1	156805578	T	C
UNKNOWN.1.156805616	1	156805616	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.1.160757101	1	160757101	G	T
UNKNOWN.1.161363531	1	161363531	T	C
UNKNOWN.1.168208100	1	168208100	A	G
UNKNOWN.1.1699312	1	1699312	CAGG	C
UNKNOWN.1.173796078	1	173796078	T	C
UNKNOWN.1.173796111	1	173796111	T	C
UNKNOWN.1.222557151	1	222557151	C	T
UNKNOWN.1.227678000	1	227678000	G	C
UNKNOWN.1.228183397	1	228183397	T	C
UNKNOWN.1.23303726	1	23303726	C	A
UNKNOWN.1.234953216	1	234953216	G	A
UNKNOWN.1.234953983	1	234953983	C	G
UNKNOWN.1.248468480	1	248468480	G	T
UNKNOWN.1.25040133	1	25040133	C	T
UNKNOWN.1.25617187	1	25617187	G	C
UNKNOWN.1.36455626	1	36455626	A	G
UNKNOWN.1.36464387	1	36464387	T	C
UNKNOWN.1.43368703	1	43368703	AT	A
UNKNOWN.1.51010331	1	51010331	A	T
UNKNOWN.1.52372304	1	52372304	T	C
UNKNOWN.1.67400170	1	67400170	G	T
UNKNOWN.1.7878588	1	7878588	G	A
UNKNOWN.1.7907006	1	7907006	T	C
UNKNOWN.1.89051391	1	89051391	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.1.8906429	1	8906429	T	A
UNKNOWN.1.89103387	1	89103387	A	G
UNKNOWN.1.89258208	1	89258208	G	A
UNKNOWN.1.8927045	1	8927045	C	T
UNKNOWN.1.8927200	1	8927200	C	T
UNKNOWN.1.8927281	1	8927281	G	T
UNKNOWN.1.9634021	1	9634021	A	G
UNKNOWN.10.104267837	10	104267837	C	T
UNKNOWN.10.104267903	10	104267903	C	G
UNKNOWN.10.104268144	10	104268144	C	A
UNKNOWN.10.119496600	10	119496600	C	A
UNKNOWN.10.119542937	10	119542937	G	C
UNKNOWN.10.125896466	10	125896466	C	A
UNKNOWN.10.131961253	10	131961253	A	G
UNKNOWN.10.133373477	10	133373477	G	T
UNKNOWN.10.43422302	10	43422302	T	A
UNKNOWN.10.46205983	10	46205983	T	C
UNKNOWN.10.46217637	10	46217637	C	G
UNKNOWN.10.47226218	10	47226218	G	A
UNKNOWN.10.47227485	10	47227485	C	A
UNKNOWN.10.47228482	10	47228482	C	G
UNKNOWN.10.60794933	10	60794933	A	G
UNKNOWN.10.79828146	10	79828146	T	C
UNKNOWN.10.84154277	10	84154277	T	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.11.110338762	11	110338762	G	A
UNKNOWN.11.118337578	11	118337578	T	C
UNKNOWN.11.118338343	11	118338343	T	C
UNKNOWN.11.125625626	11	125625626	G	T
UNKNOWN.11.2286464	11	2286464	C	T
UNKNOWN.11.2287074	11	2287074	C	A
UNKNOWN.11.297290	11	297290	G	A
UNKNOWN.11.332997	11	332997	G	A
UNKNOWN.11.35073939	11	35073939	A	G
UNKNOWN.11.57087030	11	57087030	T	G
UNKNOWN.11.62400832	11	62400832	A	G
UNKNOWN.11.6707623	11	6707623	C	T
UNKNOWN.11.6710256	11	6710256	T	A
UNKNOWN.11.94500021	11	94500021	C	T
UNKNOWN.12.106347361	12	106347361	G	A
UNKNOWN.12.132443605	12	132443605	T	C
UNKNOWN.12.46275269	12	46275269	G	A
UNKNOWN.12.54942877	12	54942877	A	G
UNKNOWN.12.6473313	12	6473313	A	G
UNKNOWN.12.66344171	12	66344171	T	C
UNKNOWN.12.93442014	12	93442014	CT	C
UNKNOWN.13.110832521	13	110832521	C	T
UNKNOWN.13.41384085	13	41384085	A	G
UNKNOWN.13.41384176	13	41384176	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.14.105856283	14	105856283	C	A
UNKNOWN.14.105859199	14	105859199	G	A
UNKNOWN.14.105859685	14	105859685	C	T
UNKNOWN.14.105864670	14	105864670	T	C
UNKNOWN.14.21704552	14	21704552	C	A
UNKNOWN.14.21975139	14	21975139	C	T
UNKNOWN.14.21998172	14	21998172	A	G
UNKNOWN.14.22096957	14	22096957	C	T
UNKNOWN.14.22113325	14	22113325	G	A
UNKNOWN.14.22545162	14	22545162	C	G
UNKNOWN.14.91255717	14	91255717	G	T
UNKNOWN.15.22605097	15	22605097	C	T
UNKNOWN.15.28700630	15	28700630	G	A
UNKNOWN.15.28701288	15	28701288	A	G
UNKNOWN.15.28773960	15	28773960	A	G
UNKNOWN.15.30403044	15	30403044	G	A
UNKNOWN.15.32518900	15	32518900	GA	G
UNKNOWN.15.32519643	15	32519643	T	C
UNKNOWN.15.34437712	15	34437712	CCG	C
UNKNOWN.15.34437750	15	34437750	C	T
UNKNOWN.15.40395683	15	40395683	A	G
UNKNOWN.15.40399839	15	40399839	G	A
UNKNOWN.15.40763818	15	40763818	G	C
UNKNOWN.15.66334615	15	66334615	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.16.56984724	16	56984724	C	T
UNKNOWN.16.56985620	16	56985620	C	A
UNKNOWN.17.16383069	17	16383069	A	G
UNKNOWN.17.32381941	17	32381941	T	G
UNKNOWN.17.34359625	17	34359625	G	A
UNKNOWN.17.399065	17	399065	C	T
UNKNOWN.17.45583892	17	45583892	C	G
UNKNOWN.17.45584435	17	45584435	T	G
UNKNOWN.17.45584444	17	45584444	G	A
UNKNOWN.17.45584451	17	45584451	C	T
UNKNOWN.17.48123669	17	48123669	C	T
UNKNOWN.17.48867475	17	48867475	A	G
UNKNOWN.17.48929131	17	48929131	T	C
UNKNOWN.17.68197193	17	68197193	G	T
UNKNOWN.17.68197195	17	68197195	A	C
UNKNOWN.17.743878	17	743878	T	C
UNKNOWN.17.82454007	17	82454007	A	G
UNKNOWN.18.9065425	18	9065425	C	T
UNKNOWN.19.10105511	19	10105511	G	A
UNKNOWN.19.18303973	19	18303973	A	G
UNKNOWN.19.19858830	19	19858830	T	C
UNKNOWN.19.19859668	19	19859668	A	G
UNKNOWN.19.20810095	19	20810095	T	C
UNKNOWN.19.21284729	19	21284729	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.19.2457964	19	2457964	T	C
UNKNOWN.19.2458912	19	2458912	A	G
UNKNOWN.19.37731065	19	37731065	G	A
UNKNOWN.19.37732266	19	37732266	A	C
UNKNOWN.19.37733093	19	37733093	C	A
UNKNOWN.19.44161897	19	44161897	A	G
UNKNOWN.19.47236875	19	47236875	T	C
UNKNOWN.19.48924164	19	48924164	A	G
UNKNOWN.19.49017245	19	49017245	C	T
UNKNOWN.19.49331198	19	49331198	C	T
UNKNOWN.19.52701219	19	52701219	A	T
UNKNOWN.19.552579	19	552579	T	G
UNKNOWN.19.552656	19	552656	C	T
UNKNOWN.19.57300027	19	57300027	T	C
UNKNOWN.19.57300146	19	57300146	A	C
UNKNOWN.19.57302744	19	57302744	GA	G
UNKNOWN.19.8052424	19	8052424	T	C
UNKNOWN.2.135741666	2	135741666	C	G
UNKNOWN.2.179944802	2	179944802	T	A
UNKNOWN.2.203309350	2	203309350	T	G
UNKNOWN.2.203739554	2	203739554	G	A
UNKNOWN.2.216209018	2	216209018	A	G
UNKNOWN.2.216216834	2	216216834	T	C
UNKNOWN.2.227566149	2	227566149	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.2.230315120	2	230315120	T	C
UNKNOWN.2.230982901	2	230982901	A	T
UNKNOWN.2.230982965	2	230982965	A	G
UNKNOWN.2.230982974	2	230982974	G	A
UNKNOWN.2.241804528	2	241804528	G	T
UNKNOWN.2.43064551	2	43064551	G	A
UNKNOWN.2.43171739	2	43171739	T	C
UNKNOWN.2.43226899	2	43226899	G	C
UNKNOWN.2.6907308	2	6907308	G	T
UNKNOWN.2.74120449	2	74120449	G	T
UNKNOWN.2.74120467	2	74120467	G	C
UNKNOWN.2.74120665	2	74120665	G	C
UNKNOWN.2.74123726	2	74123726	A	T
UNKNOWN.2.7748670	2	7748670	A	G
UNKNOWN.2.7752866	2	7752866	A	G
UNKNOWN.2.85584425	2	85584425	G	A
UNKNOWN.2.86810169	2	86810169	T	A
UNKNOWN.2.9631013	2	9631013	C	T
UNKNOWN.2.97270257	2	97270257	A	G
UNKNOWN.20.13711775	20	13711775	A	T
UNKNOWN.20.13713938	20	13713938	T	C
UNKNOWN.20.30405716	20	30405716	G	A
UNKNOWN.20.43729740	20	43729740	T	C
UNKNOWN.20.43730177	20	43730177	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.20.44960400	20	44960400	C	A
UNKNOWN.21.31659661	21	31659661	A	G
UNKNOWN.21.33977822	21	33977822	A	G
UNKNOWN.21.34615146	21	34615146	G	A
UNKNOWN.21.42401360	21	42401360	T	C
UNKNOWN.22.22288403	22	22288403	T	C
UNKNOWN.22.41414166	22	41414166	T	C
UNKNOWN.22.50540502	22	50540502	C	T
UNKNOWN.3.112460938	3	112460938	C	A
UNKNOWN.3.112461779	3	112461779	T	C
UNKNOWN.3.112461935	3	112461935	T	C
UNKNOWN.3.112462543	3	112462543	G	C
UNKNOWN.3.112462544	3	112462544	G	A
UNKNOWN.3.112462694	3	112462694	A	G
UNKNOWN.3.114239230	3	114239230	T	C
UNKNOWN.3.114239752	3	114239752	C	T
UNKNOWN.3.114239797	3	114239797	G	C
UNKNOWN.3.129200625	3	129200625	G	A
UNKNOWN.3.129364674	3	129364674	T	C
UNKNOWN.3.136230013	3	136230013	G	A
UNKNOWN.3.157160776	3	157160776	A	G
UNKNOWN.3.171056584	3	171056584	A	C
UNKNOWN.3.171057343	3	171057343	C	T
UNKNOWN.3.195628430	3	195628430	C	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.3.195628732	3	195628732	G	A
UNKNOWN.3.195643439	3	195643439	G	A
UNKNOWN.3.195646486	3	195646486	G	C
UNKNOWN.3.195647997	3	195647997	G	A
UNKNOWN.3.195649057	3	195649057	C	T
UNKNOWN.3.197641114	3	197641114	C	T
UNKNOWN.3.197641116	3	197641116	T	C
UNKNOWN.3.31531267	3	31531267	A	G
UNKNOWN.3.31531565	3	31531565	T	C
UNKNOWN.3.50654396	3	50654396	T	C
UNKNOWN.3.51995975	3	51995975	G	A
UNKNOWN.3.94505947	3	94505947	C	T
UNKNOWN.4.105486265	4	105486265	A	G
UNKNOWN.4.177370456	4	177370456	T	A
UNKNOWN.4.182877538	4	182877538	GTAT	G
UNKNOWN.4.184298876	4	184298876	T	G
UNKNOWN.4.184298877	4	184298877	T	G
UNKNOWN.4.184308381	4	184308381	G	A
UNKNOWN.4.42705718	4	42705718	A	G
UNKNOWN.4.83087553	4	83087553	TA	T
UNKNOWN.5.14619949	5	14619949	T	C
UNKNOWN.5.151094519	5	151094519	T	G
UNKNOWN.5.151098733	5	151098733	T	C
UNKNOWN.5.151180784	5	151180784	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.5.151729806	5	151729806	G	A
UNKNOWN.5.151740402	5	151740402	G	A
UNKNOWN.5.151740411	5	151740411	C	T
UNKNOWN.5.160522941	5	160522941	G	A
UNKNOWN.5.180847402	5	180847402	C	G
UNKNOWN.5.181172636	5	181172636	A	G
UNKNOWN.5.69979979	5	69979979	T	G
UNKNOWN.5.69992866	5	69992866	A	G
UNKNOWN.5.71135289	5	71135289	T	C
UNKNOWN.5.95835166	5	95835166	C	G
UNKNOWN.6.107701359	6	107701359	G	A
UNKNOWN.6.110968033	6	110968033	A	G
UNKNOWN.6.131357630	6	131357630	CT	C
UNKNOWN.6.151399534	6	151399534	T	G
UNKNOWN.6.27757707	6	27757707	C	T
UNKNOWN.6.29886851	6	29886851	T	C
UNKNOWN.6.29946919	6	29946919	G	A
UNKNOWN.6.29948426	6	29948426	G	C
UNKNOWN.6.29970397	6	29970397	C	T
UNKNOWN.6.29970591	6	29970591	A	C
UNKNOWN.6.29970594	6	29970594	A	C
UNKNOWN.6.29970600	6	29970600	C	A
UNKNOWN.6.29970678	6	29970678	G	A
UNKNOWN.6.29970701	6	29970701	A	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.6.29970710	6	29970710	T	G
UNKNOWN.6.29970730	6	29970730	C	T
UNKNOWN.6.29972483	6	29972483	G	A
UNKNOWN.6.29972711	6	29972711	T	C
UNKNOWN.6.29972727	6	29972727	G	T
UNKNOWN.6.29972973	6	29972973	C	A
UNKNOWN.6.29973166	6	29973166	T	C
UNKNOWN.6.31158475	6	31158475	C	A
UNKNOWN.6.32656224	6	32656224	A	T
UNKNOWN.6.32658230	6	32658230	C	T
UNKNOWN.6.32658571	6	32658571	C	T
UNKNOWN.6.32658674	6	32658674	G	A
UNKNOWN.6.32658805	6	32658805	GAC	G
UNKNOWN.6.32659106	6	32659106	G	C
UNKNOWN.6.32659177	6	32659177	A	G
UNKNOWN.6.32659198	6	32659198	A	C
UNKNOWN.6.32659262	6	32659262	A	G
UNKNOWN.6.32659267	6	32659267	G	A
UNKNOWN.6.32860445	6	32860445	A	AC
UNKNOWN.6.35733503	6	35733503	A	G
UNKNOWN.6.37537591	6	37537591	C	G
UNKNOWN.6.37539151	6	37539151	G	A
UNKNOWN.6.449483	6	449483	C	G
UNKNOWN.6.95558204	6	95558204	TA	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.6.95559539	6	95559539	C	A
UNKNOWN.6.95559822	6	95559822	C	T
UNKNOWN.7.115019294	7	115019294	G	C
UNKNOWN.7.115019767	7	115019767	T	C
UNKNOWN.7.128652480	7	128652480	A	G
UNKNOWN.7.128653445	7	128653445	A	G
UNKNOWN.7.128654822	7	128654822	C	G
UNKNOWN.7.128654968	7	128654968	A	G
UNKNOWN.7.128659707	7	128659707	A	G
UNKNOWN.7.128661847	7	128661847	C	T
UNKNOWN.7.128662807	7	128662807	T	A
UNKNOWN.7.142458286	7	142458286	T	C
UNKNOWN.7.142618250	7	142618250	A	C
UNKNOWN.7.142788197	7	142788197	G	A
UNKNOWN.7.152644030	7	152644030	AAG	A
UNKNOWN.7.38253583	7	38253583	C	A
UNKNOWN.7.38304774	7	38304774	C	T
UNKNOWN.7.38333453	7	38333453	G	A
UNKNOWN.7.47960059	7	47960059	A	G
UNKNOWN.7.47960777	7	47960777	G	T
UNKNOWN.7.50440627	7	50440627	T	C
UNKNOWN.7.64838026	7	64838026	C	T
UNKNOWN.7.74918307	7	74918307	G	A
UNKNOWN.7.74935492	7	74935492	A	G

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.7.7636086	7	7636086	T	C
UNKNOWN.7.7636102	7	7636102	T	C
UNKNOWN.8.17922835	8	17922835	C	G
UNKNOWN.8.212396	8	212396	A	G
UNKNOWN.8.42751936	8	42751936	T	C
UNKNOWN.8.42752619	8	42752619	GT	G
UNKNOWN.8.42799537	8	42799537	A	G
UNKNOWN.8.70404081	8	70404081	C	T
UNKNOWN.8.77002682	8	77002682	A	G
UNKNOWN.9.120899420	9	120899420	T	C
UNKNOWN.9.120900190	9	120900190	T	C
UNKNOWN.9.120901422	9	120901422	T	C
UNKNOWN.9.127446645	9	127446645	T	C
UNKNOWN.9.127793618	9	127793618	T	C
UNKNOWN.9.129812198	9	129812198	G	A
UNKNOWN.9.134866910	9	134866910	CAG	C
UNKNOWN.9.136110604	9	136110604	T	G
UNKNOWN.9.136119658	9	136119658	C	T
UNKNOWN.9.136926779	9	136926779	A	C
UNKNOWN.9.19374255	9	19374255	A	T
UNKNOWN.9.20997601	9	20997601	GT	G
UNKNOWN.9.20998264	9	20998264	C	A
UNKNOWN.9.3694299	9	3694299	C	T
UNKNOWN.9.37507869	9	37507869	C	T

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.9.40947697	9	40947697	T	C
UNKNOWN.9.41356967	9	41356967	C	T
UNKNOWN.9.41480735	9	41480735	G	A
UNKNOWN.9.62799225	9	62799225	C	T
UNKNOWN.9.62799529	9	62799529	A	G
UNKNOWN.9.62800583	9	62800583	C	T
UNKNOWN.9.62903762	9	62903762	G	A
UNKNOWN.9.63816870	9	63816870	C	T
UNKNOWN.9.63884033	9	63884033	TA	T
UNKNOWN.9.66268061	9	66268061	C	T
UNKNOWN.9.97902100	9	97902100	A	G
UNKNOWN.9.97902192	9	97902192	A	G
UNKNOWN.GL000205.2.51413	GL000205.2	51413	G	A
UNKNOWN.GL000205.2.51644	GL000205.2	51644	A	C
UNKNOWN.GL000205.2.52325	GL000205.2	52325	T	C
UNKNOWN.GL000205.2.55487	GL000205.2	55487	(various)	C
UNKNOWN.GL000205.2.56231	GL000205.2	56231	T	C
UNKNOWN.GL000205.2.56422	GL000205.2	56422	A	G
UNKNOWN.GL000205.2.56802	GL000205.2	56802	C	T
UNKNOWN.GL000205.2.56804	GL000205.2	56804	G	T
UNKNOWN.GL000205.2.57098	GL000205.2	57098	C	G
UNKNOWN.GL000205.2.57239	GL000205.2	57239	G	T
UNKNOWN.GL000205.2.58039	GL000205.2	58039	A	T
UNKNOWN.GL000205.2.58055	GL000205.2	58055	G	A

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UNKNOWN.GL000218.1.40698	GL000218.1	40698	C	A
UNKNOWN.GL000218.1.47518	GL000218.1	47518	T	G
UNKNOWN.GL000219.1.97342	GL000219.1	97342	C	A
UNKNOWN.GL000220.1.101394	GL000220.1	101394	G	C
UNKNOWN.KI270713.1.33627	KI270713.1	33627	C	T
UNKNOWN.KI270713.1.33628	KI270713.1	33628	A	G
UNKNOWN.KI270733.1.169240	KI270733.1	169240	C	T
UNKNOWN.KI270733.1.174609	KI270733.1	174609	A	C
UNKNOWN.KI270733.1.178795	KI270733.1	178795	G	A
UNKNOWN.MT.105	MT	105	CGGAGCA	C
UNKNOWN.MT.111	MT	111	A	C
UNKNOWN.MT.16051	MT	16051	A	G
UNKNOWN.MT.16092	MT	16092	T	C
UNKNOWN.MT.217	MT	217	T	C
UNKNOWN.MT.279	MT	279	T	C
UNKNOWN.MT.508	MT	508	A	G
UNKNOWN.MT.90	MT	90	G	A
UNKNOWN.MT.97	MT	97	G	A
UNKNOWN.X.101163824	X	101163824	A	G
UNKNOWN.X.101343049	X	101343049	T	C
UNKNOWN.X.101343407	X	101343407	T	C
UNKNOWN.X.1383483	X	1383483	T	C
UNKNOWN.X.1385161	X	1385161	T	C
UNKNOWN.X.44542955	X	44542955	G	A
UNKNOWN.X.79232177	X	79232177	A	G
UNKNOWN.Y.19608693	Y	19608693	A	G
UNKNOWN.Y.19608719	Y	19608719	A	G
UPK3B	7	76515138	A	C
UPK3B	7	76515243	T	C

Table 10: T Cell Low Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UPK3B	7	76511793	A	T
UPK3B	7	76511796	C	T
Z82188.2	22	37180446	A	C
Z82188.2	22	37181105	A	T
Z82188.2	22	37182174	T	C
Z82188.2	22	37182539	C	T
Z82188.2	22	37182812	C	T
Z82188.2	22	37181832	A	G
Z82188.2	22	37181697	A	T
Z84492.2	3	50364749	C	T
Z84492.2	3	50364084	G	A
ZNF22-AS1	10	45000672	A	T
ZNF22-AS1	10	45000359	GA	G
ZNF449	X	135362776	T	A
ZNF449	X	135360425	C	T
ZNF469	16	88435800	A	T
ZNF469	16	88424010	G	A
ZNF511	10	133312578	G	A
ZNF774	15	90352332	A	C
ZNF774	15	90354653	G	C
ZRANB2-AS2	1	71275828	C	T
ZRANB2-AS2	1	71275833	C	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CDK11B	1	1645163	T	C
CDK11B	1	1635543	T	C
CDK11B	1	1635923	G	A
CDK11B	1	1637168	A	C
CDK11B	1	1637693	C	T
CDK11B	1	1642980	C	G
CDK11B	1	1645377	T	A
CDK11B	1	1647094	G	A
CDK11B	1	1652779	A	G
CDK11B	1	1658691	G	A
CDK11B	1	1646352	A	G
CDK11B	1	1646398	G	A
CDK11B	1	1647255	T	C
CDK11B	1	1647280	T	C
CDK11B	1	1648134	T	C
CDK11B	1	1635284	T	C
CDK11B	1	1636526	G	A
CDK11B	1	1636893	T	G
CDK11B	1	1637531	G	A
CDK11B	1	1637716	A	G
CDK11B	1	1637819	C	A
CDK11B	1	1642308	C	T
CDK11B	1	1642825	G	T
CDK11B	1	1645449	C	T
H6PD	1	9271185	T	C
H6PD	1	9236561	A	G
H6PD	1	9268164	A	G
H6PD	1	9268183	A	G
H6PD	1	9268184	A	G
H6PD	1	9271042	A	G
H6PD	1	9271218	G	T
H6PD	1	9271272	A	T
H6PD	1	9236429	G	A
H6PD	1	9266828	CT	C
H6PD	1	9268152	T	C
H6PD	1	9267118	C	T
H6PD	1	9267890	A	C
H6PD	1	9268234	A	G
RPA2	1	27891589	T	C
RPA2	1	27903893	A	G
RPA2	1	27903983	A	G
RPA2	1	27909737	G	A
RPA2	1	27891953	T	A
RPA2	1	27902988	G	A
PTP4A2	1	31922586	(various)	C
PTP4A2	1	31922821	T	C
PTP4A2	1	31922888	T	C
PTP4A2	1	31938061	TCGGCGGCGG (SEQ ID No: 54)	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PTP4A2	1	31922439	T	C
PTP4A2	1	31922594	C	G
PTP4A2	1	31922752	T	C
PTP4A2	1	31922758	G	A
PTP4A2	1	31922891	G	A
PTP4A2	1	31922401	T	C
PTP4A2	1	31922436	T	C
PTP4A2	1	31935946	T	C
GATAD2B	1	153806613	GT	G
GATAD2B	1	153806936	A	G
GATAD2B	1	153842644	TTATG	T
GATAD2B	1	153846481	T	G
GATAD2B	1	153860142	T	C
GATAD2B	1	153868827	T	C
GATAD2B	1	153878415	T	C
GATAD2B	1	153886601	T	C
GATAD2B	1	153886613	T	C
GATAD2B	1	153886700	T	C
GATAD2B	1	153886760	T	C
GATAD2B	1	153904682	T	C
GATAD2B	1	153805193	G	T
GATAD2B	1	153805372	C	T
GATAD2B	1	153806760	C	T
GATAD2B	1	153807822	C	T
GATAD2B	1	153848772	T	C
GATAD2B	1	153848786	T	C
GATAD2B	1	153848842	T	C
GATAD2B	1	153848870	T	C
GATAD2B	1	153862063	G	C
GATAD2B	1	153868831	T	C
GATAD2B	1	153892780	T	C
GATAD2B	1	153909352	T	C
GATAD2B	1	153909459	T	C
GATAD2B	1	153855076	A	G
GATAD2B	1	153855314	T	C
GATAD2B	1	153859436	C	A
GATAD2B	1	153860027	T	C
GATAD2B	1	153860031	T	C
GATAD2B	1	153862392	G	C
GATAD2B	1	153878203	T	C
GATAD2B	1	153896490	G	A
GATAD2B	1	153840407	G	A
GATAD2B	1	153855225	GT	G
GATAD2B	1	153868803	T	C
GATAD2B	1	153868846	T	C
GATAD2B	1	153878356	T	C
GATAD2B	1	153886859	G	A
GATAD2B	1	153897194	T	C
GATAD2B	1	153900607	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GATAD2B	1	153905043	T	C
GATAD2B	1	153909473	T	C
GATAD2B	1	153809412	G	A
GATAD2B	1	153813838	C	T
GATAD2B	1	153855658	A	G
GATAD2B	1	153860292	T	A
GATAD2B	1	153907700	G	A
GATAD2B	1	153806826	A	G
GATAD2B	1	153812190	CT	C
GATAD2B	1	153907777	T	C
GON4L	1	155784326	G	A
GON4L	1	155751407	A	G
GON4L	1	155836200	C	A
GON4L	1	155836520	T	C
GON4L	1	155765221	T	C
GON4L	1	155853791	C	T
AL513303.1	10	3812532	G	A
AL513303.1	10	3810350	C	T
AL513303.1	10	3812166	C	G
AL513303.1	10	3812364	G	A
AL513303.1	10	3810839	A	G
AL513303.1	10	3812011	A	G
NSUN6	10	18571665	C	T
NSUN6	10	18571730	A	G
NSUN6	10	18573282	A	T
NSUN6	10	18566260	C	T
NSUN6	10	18566287	C	T
NSUN6	10	18566513	T	C
NSUN6	10	18657010	G	T
NSUN6	10	18565766	C	T
NSUN6	10	18565904	G	C
NSUN6	10	18566177	T	C
NSUN6	10	18570158	A	C
NSUN6	10	18647717	A	C
NSUN6	10	18651228	C	A
NSUN6	10	18659283	T	C
NCOA4	10	46006241	G	C
NCOA4	10	46012928	G	A
NCOA4	10	46007645	C	T
NCOA4	10	46010661	C	T
NCOA4	10	46008585	C	T
ARHGAP22	10	48654607	T	C
ARHGAP22	10	48654682	GTT	G
ARHGAP22	10	48654773	ACTTT	A
ARHGAP22	10	48578777	C	C
ARHGAP22	10	48578905	A	G
ARHGAP22	10	48579000	T	C
ARHGAP22	10	48579033	C	T
ARHGAP22	10	48579176	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARHGAP22	10	48532818	T	C
ARHGAP22	10	48577013	G	T
ARHGAP22	10	48577129	A	G
ARHGAP22	10	48582927	C	T
ARHGAP22	10	48654773	A	T
PSAP	10	71818615	A	T
PSAP	10	71850298	G	A
PSAP	10	71850368	T	G
PSAP	10	71850580	C	T
PSAP	10	71822277	G	A
PSAP	10	71823763	G	C
PSAP	10	71824716	A	C
PSAP	10	71825268	C	T
PSAP	10	71825678	G	T
PSAP	10	71826828	A	G
PSAP	10	71827036	C	T
PSAP	10	71849302	G	C
PSAP	10	71849805	A	G
PSAP	10	71829541	A	G
PSAP	10	71816550	C	T
PSAP	10	71822995	T	A
PSAP	10	71851225	G	A
PSAP	10	71823408	T	C
PSAP	10	71824669	T	C
PSAP	10	71850499	T	C
PSAP	10	71817869	A	T
PSAP	10	71818915	G	A
PSAP	10	71819125	T	C
PSAP	10	71819648	C	T
PSAP	10	71823011	GA	G
PSAP	10	71823024	G	T
PSAP	10	71824191	TC	T
PSAP	10	71831906	G	A
PPP3CB	10	73480740	T	C
PPP3CB	10	73480687	T	C
PPP3CB	10	73480700	T	C
PPP3CB	10	73481254	T	C
PPP3CB	10	73481280	T	C
PPP3CB	10	73481306	T	C
PPP3CB	10	73437293	C	T
PPP3CB	10	73481175	T	C
PPP3CB	10	73491195	T	C
PPP3CB	10	73491258	T	C
TBC1D12	10	94404648	CA	C
TBC1D12	10	94434365	C	T
TBC1D12	10	94434437	T	C
TBC1D12	10	94525497	G	A
TBC1D12	10	94526568	T	C
TBC1D12	10	94403282	C	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TBC1D12	10	94431421	AAAAAC	A
TBC1D12	10	94522844	A	G
TBC1D12	10	94405117	C	T
TBC1D12	10	94533231	T	A
TBC1D12	10	94533747	A	G
TBC1D12	10	94535094	T	C
TBC1D12	10	94521125	A	G
LCOR	10	96888285	A	G
LCOR	10	96913736	A	G
LCOR	10	96964241	CT	C
LCOR	10	96887442	A	G
LCOR	10	96913743	A	G
LCOR	10	96944183	C	G
LCOR	10	96865771	A	G
LCOR	10	96847630	A	G
LCOR	10	96887714	A	G
LCOR	10	96893607	A	G
LCOR	10	96893707	A	G
LCOR	10	96913843	A	G
LCOR	10	96845160	C	T
LCOR	10	96995323	G	A
GBF1	10	102304989	AAAAGAAAG	A
GBF1	10	102305089	C	A
GBF1	10	102273074	A	G
GBF1	10	102305128	C	G
GBF1	10	102322700	A	G
GBF1	10	102322931	T	G
GBF1	10	102349425	A	G
GBF1	10	102351086	CA	C
GBF1	10	102376712	T	C
GBF1	10	102380593	G	A
GBF1	10	102276525	(various)	C
GBF1	10	102276598	G	A
GBF1	10	102323167	CT	C
GBF1	10	102273088	A	G
GBF1	10	102296709	C	T
GBF1	10	102304871	G	A
GBF1	10	102307668	A	G
GBF1	10	102307670	A	G
GBF1	10	102322626	A	G
GBF1	10	102322632	A	G
GBF1	10	102304791	A	G
GBF1	10	102349349	A	G
GBF1	10	102273087	A	G
GBF1	10	102273155	A	C
GBF1	10	102289105	GA	G
GBF1	10	102356556	G	A
GRK5	10	119269781	T	C
GRK5	10	119407962	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GRK5	10	119213435	T	C
GRK5	10	119228447	TA	T
GRK5	10	119228537	T	C
GRK5	10	119246139	T	G
GRK5	10	119272618	T	G
GRK5	10	119290211	T	G
GRK5	10	119290307	G	A
GRK5	10	119290506	C	T
GRK5	10	119295101	A	G
GRK5	10	119207864	C	T
GRK5	10	119231622	G	A
GRK5	10	119408056	G	A
GRK5	10	119408534	A	C
GRK5	10	119231662	G	A
GRK5	10	119245793	G	A
GRK5	10	119245939	G	C
GRK5	10	119326585	A	T
GRK5	10	119436752	C	T
GRK5	10	119213366	C	T
RHOG	11	3828679	A	C
RHOG	11	3828810	T	C
RHOG	11	3828821	C	T
RHOG	11	3828827	G	A
RHOG	11	3828841	C	T
RHOG	11	3828610	C	T
RHOG	11	3828481	A	C
RHOG	11	3828827	G	T
RHOG	11	3828855	C	T
RHOG	11	3830583	GT	G
RHOG	11	3828697	T	C
RPS13	11	17074512	A	G
RPS13	11	17074603	T	A
RPS13	11	17075091	A	G
RPS13	11	17075095	A	C
RPS13	11	17076148	G	T
RPS13	11	17074664	A	G
RPS13	11	17075092	C	A
RPS13	11	17075096	C	A
RPS13	11	17074420	T	A
SLC15A3	11	60951320	C	T
SLC15A3	11	60944094	T	C
SLC15A3	11	60944127	T	C
SLC15A3	11	60946182	T	C
SLC15A3	11	60945886	A	T
SLC15A3	11	60938709	C	T
SLC15A3	11	60939771	G	A
SLC15A3	11	60940889	TG	T
SLC15A3	11	60947186	AT	A
SLC15A3	11	60938046	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SLC15A3	11	60938278	CTCCTCCCCT (SEQ ID No: 55)	C
SLC15A3	11	60938652	T	C
SLC15A3	11	60943779	G	A
RPS6KB2	11	67433348	C	T
RPS6KB2	11	67434685	C	T
RPS6KB2	11	67435355	G	A
RPS6KB2	11	67433341	C	T
RPS6KB2	11	67432235	C	A
RPS6KB2	11	67428578	G	A
RPS6KB2	11	67428766	T	C
GRAMD1B	11	123497880	G	A
GRAMD1B	11	123520625	A	G
GRAMD1B	11	123445696	A	G
GRAMD1B	11	123446956	A	G
GRAMD1B	11	123456899	G	A
GRAMD1B	11	123457146	C	T
GRAMD1B	11	123466372	GAA	G
GRAMD1B	11	123486402	A	G
GRAMD1B	11	123502537	A	G
GRAMD1B	11	123620638	A	G
GRAMD1B	11	123445620	A	G
GRAMD1B	11	123486570	C	G
GRAMD1B	11	123466511	C	T
GRAMD1B	11	123497900	CA	C
AC006581.2	12	8893276	C	T
AC006581.2	12	8893522	T	C
AC006581.2	12	8895484	T	C
AC006581.2	12	8895495	T	C
AC006581.2	12	8895664	T	G
AC006581.2	12	8895747	C	T
AC006581.2	12	8895847	C	G
AC006581.2	12	8914017	C	T
AC006581.2	12	8901065	T	C
AC006581.2	12	8902171	A	C
RECQL	12	21501331	G	A
RECQL	12	21486594	GA	G
RECQL	12	21479350	AT	A
RECQL	12	21479505	G	A
RECQL	12	21486657	G	C
RECQL	12	21501473	G	A
RECQL	12	21479000	G	A
RECQL	12	21501558	C	T
ETNK1	12	22671815	G	A
ETNK1	12	22638024	A	G
ETNK1	12	22659832	A	G
ETNK1	12	22690273	A	C
ETNK1	12	22687158	A	G
ETNK1	12	22689262	CTA	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ETNK1	12	22689844	A	G
ETNK1	12	22686802	G	A
ETNK1	12	22660060	G	A
ETNK1	12	22688158	A	C
ETNK1	12	22688370	C	T
ETNK1	12	22688426	A	C
KRAS	12	25218945	GTT	G
KRAS	12	25218970	C	T
KRAS	12	25228419	C	G
KRAS	12	25231363	G	A
KRAS	12	25209843	A	G
KRAS	12	25218920	T	A
KRAS	12	25234006	C	T
KRAS	12	25229861	T	C
KRAS	12	25229930	G	A
KRAS	12	25229994	T	C
KRAS	12	25218921	T	TG
KRAS	12	25219261	T	C
KRAS	12	25229770	CT	C
KRAS	12	25230260	C	T
KRAS	12	25239348	C	T
KRAS	12	25219175	A	T
ITPR2	12	26734971	T	C
ITPR2	12	26788150	G	A
ITPR2	12	26833078	G	T
ITPR2	12	26645822	A	G
ITPR2	12	26773979	G	T
ITPR2	12	26461936	C	T
ITPR2	12	26737272	T	C
ITPR2	12	26738754	C	T
ITPR2	12	26497731	A	G
ITPR2	12	26512883	C	G
ITPR2	12	26538616	A	G
ITPR2	12	26538618	C	T
ITPR2	12	26538723	T	C
ITPR2	12	26538817	C	T
ITPR2	12	26653001	C	T
ITPR2	12	26679820	T	C
ITPR2	12	26701394	G	A
ITPR2	12	26701452	G	C
ITPR2	12	26737286	C	G
ITPR2	12	26737289	C	G
ITPR2	12	26774121	A	C
ITPR2	12	26797829	T	C
ITPR2	12	26797830	T	C
ITPR2	12	26832874	T	G
ITPR2	12	26832960	G	A
ACVR1B	12	51958517	G	A
ACVR1B	12	51958665	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ACVR1B	12	51965821	T	G
ACVR1B	12	51981848	CA	C
ACVR1B	12	51987242	C	A
ACVR1B	12	51987446	G	T
ACVR1B	12	51996612	C	T
ACVR1B	12	51957539	A	G
ACVR1B	12	51996255	A	G
ACVR1B	12	51995107	A	G
ACVR1B	12	51987454	A	T
ACVR1B	12	51996956	TAG	T
ACVR1B	12	51996209	A	G
SARNP	12	55757507	T	C
SARNP	12	55763324	T	C
SARNP	12	55792344	G	A
SARNP	12	55787575	T	C
SARNP	12	55799650	T	C
SARNP	12	55800599	C	T
SARNP	12	55758962	G	T
SARNP	12	55787574	T	C
SARNP	12	55792617	T	C
SARNP	12	55792783	T	C
SARNP	12	55799651	T	C
SARNP	12	55799824	T	C
SARNP	12	55799825	T	C
SARNP	12	55810332	T	C
SARNP	12	55777109	A	G
SARNP	12	55787845	T	C
SARNP	12	55778737	T	C
CNOT2	12	70254237	CA	C
CNOT2	12	70254834	A	G
CNOT2	12	70254861	A	G
CNOT2	12	70254467	A	G
CNOT2	12	70254896	G	T
CNOT2	12	70327396	A	G
CNOT2	12	70283686	A	G
CNOT2	12	70254980	CA	C
CNOT2	12	70283420	A	AGG
CNOT2	12	70308002	C	T
CNOT2	12	70327245	A	G
CNOT2	12	70308032	A	G
CNOT2	12	70327211	AAAAGT	A
LINC02458	12	89161057	G	A
LINC02458	12	89161340	G	A
LINC02458	12	89161501	T	C
LINC02458	12	89157826	C	T
LINC02458	12	89020057	T	A
LINC02458	12	89020058	A	G
LINC02458	12	89026706	T	C
LINC02458	12	89026816	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC02458	12	89041400	A	G
LINC02458	12	89235747	G	C
LINC02458	12	89026841	C	T
LINC02458	12	89164910	G	A
LINC02458	12	89162105	A	G
CDK17	12	96327645	T	C
CDK17	12	96355392	C	T
CDK17	12	96355501	T	C
CDK17	12	96362365	T	C
CDK17	12	96391285	AT	A
CDK17	12	96284817	G	A
CDK17	12	96300384	G	T
CDK17	12	96362321	T	C
CDK17	12	96375756	G	A
CDK17	12	96390245	A	G
CDK17	12	96391438	A	C
CDK17	12	96391463	G	GTA
CDK17	12	96278965	G	C
CDK17	12	96375427	T	A
CDK17	12	96377611	G	A
CDK17	12	96397168	G	A
CDK17	12	96279986	T	C
CDK17	12	96284592	C	T
CDK17	12	96284702	T	C
CDK17	12	96284703	T	C
CDK17	12	96300394	C	CT
CDK17	12	96355556	T	C
CDK17	12	96375120	A	G
CDK17	12	96377851	G	A
CDK17	12	96389513	A	G
CDK17	12	96400338	T	A
CDK17	12	96279385	AAAAC	A
CDK17	12	96279929	T	C
CDK17	12	96300487	C	T
CDK17	12	96400188	G	A
GAS2L3	12	100586860	C	T
GAS2L3	12	100622818	G	A
GAS2L3	12	100626966	A	G
GAS2L3	12	100575034	A	T
GAS2L3	12	100576175	C	T
GAS2L3	12	100576884	G	A
GAS2L3	12	100577448	G	T
GAS2L3	12	100626890	A	G
GAS2L3	12	100627038	A	G
GAS2L3	12	100627339	A	C
GAS2L3	12	100627374	A	G
GAS2L3	12	100627375	A	G
GAS2L3	12	100627414	A	G
GAS2L3	12	100627498	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GAS2L3	12	100622908	C	T
GAS2L3	12	100626000	G	C
GAS2L3	12	100625201	C	T
GAS2L3	12	100625225	T	C
GAS2L3	12	100627088	CA	C
GAS2L3	12	100576629	C	T
AC144548.1	12	110444130	C	T
AC144548.1	12	110435446	T	C
AC144548.1	12	110442808	G	T
AC144548.1	12	110441645	T	C
AC144548.1	12	110442127	T	C
AC144548.1	12	110442026	T	C
AC144548.1	12	110443141	T	C
AC144548.1	12	110429275	C	T
AC048338.2	12	122209153	A	G
AC048338.2	12	122210547	A	T
AC048338.2	12	122210581	A	G
AC048338.2	12	122210582	C	T
GLT1D1	12	128902887	G	A
GLT1D1	12	128983162	A	G
GLT1D1	12	128902832	C	G
GLT1D1	12	128927796	G	A
GLT1D1	12	128927893	A	G
GLT1D1	12	128965763	C	T
GLT1D1	12	128965836	C	T
GLT1D1	12	128984445	C	T
GLT1D1	12	128854981	T	C
GLT1D1	12	128902459	A	T
GLT1D1	12	128948170	C	G
GLT1D1	12	128927642	G	A
GLT1D1	12	128966173	G	A
GLT1D1	12	128977633	A	G
GLT1D1	12	128875953	G	A
GLT1D1	12	128888702	C	T
GLT1D1	12	128902834	A	G
GLT1D1	12	128902932	T	C
GLT1D1	12	128927484	C	G
GLT1D1	12	128927880	A	G
GLT1D1	12	128983460	G	T
GLT1D1	12	128984353	C	G
ZMYM2	13	19970917	A	G
ZMYM2	13	19976196	C	A
ZMYM2	13	19976200	T	C
ZMYM2	13	20063713	G	A
ZMYM2	13	19965086	TA	T
ZMYM2	13	19981306	A	C
ZMYM2	13	19986008	A	G
ZMYM2	13	19986385	A	G
ZMYM2	13	19995125	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZMYM2	13	20063325	C	A
ZMYM2	13	20063599	C	G
ZMYM2	13	19958828	C	G
ZMYM2	13	19970598	A	T
ZMYM2	13	19985708	GA	G
ZMYM2	13	19971010	A	G
ZMYM2	13	20020272	T	C
ZMYM2	13	20020298	C	G
ZMYM2	13	20020318	TC	T
ZMYM2	13	20020424	T	C
MYCBP2	13	77149275	G	A
MYCBP2	13	77150443	G	A
MYCBP2	13	77177757	C	T
MYCBP2	13	77208161	T	G
MYCBP2	13	77276862	C	T
MYCBP2	13	77210353	C	A
MYCBP2	13	77183585	T	C
MYCBP2	13	77326713	T	A
GCH1	14	54856732	C	T
GCH1	14	54860605	G	A
GCH1	14	54868852	A	G
GCH1	14	54888943	A	G
GCH1	14	54902784	A	G
GCH1	14	54850324	T	C
GCH1	14	54862477	G	A
GCH1	14	54897148	T	C
GCH1	14	54843774	G	A
GCH1	14	54848231	G	T
GCH1	14	54848287	T	C
GCH1	14	54858130	A	G
GCH1	14	54860819	G	A
GCH1	14	54862107	T	C
GCH1	14	54862203	T	A
GCH1	14	54862362	C	G
GCH1	14	54862556	C	T
GCH1	14	54868671	G	A
GCH1	14	54884461	T	C
GCH1	14	54888531	G	T
GCH1	14	54891024	A	G
GCH1	14	54894743	CAA	C
GCH1	14	54896752	A	G
GCH1	14	54896874	G	A
GCH1	14	54897214	T	C
GCH1	14	54897371	T	C
GCH1	14	54898613	T	A
GCH1	14	54898663	A	G
GCH1	14	54901909	C	T
GCH1	14	54842787	G	A
GCH1	14	54843285	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GCH1	14	54848286	C	A
GCH1	14	54849552	A	G
GCH1	14	54849794	C	T
GCH1	14	54849823	T	C
GCH1	14	54850336	G	C
GCH1	14	54850587	C	T
GCH1	14	54861917	C	T
GCH1	14	54862734	C	T
GCH1	14	54868750	T	C
GCH1	14	54884548	T	C
GCH1	14	54884700	AC	A
GCH1	14	54890784	G	A
GCH1	14	54891564	T	C
GCH1	14	54891630	T	C
GCH1	14	54896905	T	C
GCH1	14	54897010	G	T
GCH1	14	54899210	T	C
GCH1	14	54899234	G	T
GCH1	14	54842389	T	G
GCH1	14	54845261	T	C
GCH1	14	54845296	G	GATGA
GCH1	14	54862379	C	T
GCH1	14	54888313	C	T
GCH1	14	54898740	C	A
GCH1	14	54899868	CT	C
GCH1	14	54842834	G	A
GCH1	14	54842875	C	T
GCH1	14	54842960	G	GAT
GCH1	14	54848042	G	C
GCH1	14	54881655	G	A
GCH1	14	54886145	C	T
GCH1	14	54891293	TG	T
GCH1	14	54891529	C	T
GCH1	14	54891700	G	A
GCH1	14	54902703	G	A
GCH1	14	54902794	G	A
GCH1	14	54842497	C	A
GCH1	14	54888530	TG	T
GCH1	14	54897198	C	T
CHURC1	14	64933547	C	T
CHURC1	14	64922532	T	C
CHURC1	14	64925649	T	G
CHURC1	14	64930009	T	C
CHURC1	14	64930206	G	A
CHURC1	14	64932537	C	C
CHURC1	14	64932545	A	G
CHURC1	14	64932573	A	G
CHURC1	14	64932588	G	A
CHURC1	14	64933351	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CHURC1	14	64934066	GCT	G
CHURC1	14	64934977	C	A
CHURC1	14	64933727	C	T
CHURC1	14	64935119	A	G
JMJD7-PLA2G4B	15	41841899	C	T
JMJD7-PLA2G4B	15	41843790	C	T
JMJD7-PLA2G4B	15	41847444	C	T
JMJD7-PLA2G4B	15	41847968	G	T
JMJD7-PLA2G4B	15	41840002	C	G
JMJD7-PLA2G4B	15	41840070	T	C
JMJD7-PLA2G4B	15	41846258	G	A
JMJD7-PLA2G4B	15	41846374	C	T
JMJD7-PLA2G4B	15	41847677	A	G
TP53BP1	15	43415610	A	T
TP53BP1	15	43456106	A	G
TP53BP1	15	43419488	T	C
TP53BP1	15	43419630	T	C
TP53BP1	15	43419667	T	C
TP53BP1	15	43432448	T	G
TP53BP1	15	43469998	C	T
TP53BP1	15	43475576	G	C
SLC30A4	15	45514198	A	G
SLC30A4	15	45514225	A	G
SLC30A4	15	45514250	A	G
SLC30A4	15	45514074	A	G
SLC30A4	15	45514091	A	G
SLC30A4	15	45514259	A	G
SLC30A4	15	45516711	A	G
SLC30A4	15	45516932	C	T
SLC30A4	15	45517827	A	G
AC090527.2	15	45638524	G	A
AC090527.2	15	45663202	A	G
AC090527.2	15	45663303	C	T
AC090527.2	15	45638756	G	A
AC090527.2	15	45676237	T	C
AC090527.2	15	45636504	A	G
AC090527.2	15	45653933	C	G
AC090527.2	15	45654071	A	G
AC090527.2	15	45654216	T	C
AC090527.2	15	45663668	A	G
AC090527.2	15	45635680	T	C
AC090527.2	15	45659090	T	C
AC090527.2	15	45673697	G	A
ATP8B4	15	50113986	A	G
ATP8B4	15	49936818	C	T
ATP8B4	15	49936911	G	A
ATP8B4	15	50001019	T	G
ATP8B4	15	50049639	C	T
ATP8B4	15	50089732	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ATP8B4	15	50098234	A	C
ATP8B4	15	50119694	G	C
ATP8B4	15	49984489	G	A
ATP8B4	15	50001193	T	C
ATP8B4	15	50018098	A	G
ATP8B4	15	50018160	G	A
ATP8B4	15	49858706	C	A
ATP8B4	15	50034128	C	G
ATP8B4	15	50049614	A	G
ATP8B4	15	50114226	C	T
ATP8B4	15	50117073	CAG	C
ATP8B4	15	50117241	C	T
ATP8B4	15	50119643	C	T
TLNRD1	15	81001003	C	G
TLNRD1	15	81002335	A	G
TLNRD1	15	81004622	A	C
TLNRD1	15	81005079	A	G
TLNRD1	15	81005686	T	C
TLNRD1	15	81003639	C	G
TLNRD1	15	81003664	C	G
TLNRD1	15	81004895	C	T
TLNRD1	15	81005185	T	A
TLNRD1	15	81005232	ACTT	A
SEC11A	15	84677611	T	C
SEC11A	15	84704902	A	G
SEC11A	15	84677637	T	C
SEC11A	15	84669778	G	C
SEC11A	15	84686895	T	C
SEC11A	15	84670258	CT	C
SEC11A	15	84677570	T	C
SEC11A	15	84677674	T	C
SEC11A	15	84685424	AT	A
SEC11A	15	84689609	CT	C
SEC11A	15	84691203	T	C
SEC11A	15	84704985	T	C
SEC11A	15	84707350	T	C
SEC11A	15	84707412	T	C
SEC11A	15	84707456	T	C
SEC11A	15	84707459	T	C
SEC11A	15	84712585	T	C
SEC11A	15	84712766	A	G
SEC11A	15	84714368	G	A
SEC11A	15	84692144	C	T
SEC11A	15	84669775	T	A
SEC11A	15	84685521	C	A
SEC11A	15	84697939	AATG	A
SEC11A	15	84714242	T	C
SEC11A	15	84714247	A	C
SEC11A	15	84707022	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SOX8	16	985456	A	G
SOX8	16	985548	G	A
SOX8	16	986640	T	C
SOX8	16	986860	T	C
SOX8	16	985422	G	C
GNPTG	16	1354465	A	G
GNPTG	16	1354725	T	C
GNPTG	16	1362051	T	C
GNPTG	16	1354541	A	G
GNPTG	16	1357791	T	C
GNPTG	16	1357808	T	C
GNPTG	16	1361125	A	T
GNPTG	16	1361127	A	G
MAPK8IP3	16	1747049	C	T
MAPK8IP3	16	1754758	CA	C
MAPK8IP3	16	1764018	G	C
MAPK8IP3	16	1764439	A	G
MAPK8IP3	16	1767934	A	C
MAPK8IP3	16	1768502	G	C
MAPK8IP3	16	1769019	A	T
MAPK8IP3	16	1769020	A	G
MAPK8IP3	16	1769834	T	C
MAPK8IP3	16	1707617	A	G
MAPK8IP3	16	1762971	G	C
MAPK8IP3	16	1764390	T	C
MAPK8IP3	16	1769249	G	A
MAPK8IP3	16	1769432	G	A
MAPK8IP3	16	1770340	T	C
MAPK8IP3	16	1706405	C	T
MAPK8IP3	16	1710345	G	A
MAPK8IP3	16	1754356	T	C
CLEC16A	16	11095291	G	C
CLEC16A	16	11156388	C	A
CLEC16A	16	11003622	C	T
CLEC16A	16	11008812	C	A
CLEC16A	16	11012538	T	C
CLEC16A	16	11012850	C	T
CLEC16A	16	11182056	C	T
SMG1	16	18814741	AT	A
SMG1	16	18814928	G	C
SMG1	16	18854002	ATAGGAGG	A
SMG1	16	18891551	C	T
SMG1	16	18896107	G	T
SMG1	16	18925033	T	C
SMG1	16	18828040	T	C
SMG1	16	18867351	T	C
SMG1	16	18867873	T	C
SMG1	16	18867909	T	C
SMG1	16	18903882	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SMG1	16	18818779	C	T
SMG1	16	18854291	T	C
SMG1	16	18855972	C	T
SMG1	16	18867913	T	C
SMG1	16	18868004	G	A
SMG1	16	18868073	T	C
SMG1	16	18891469	C	A
SMG1	16	18914944	T	C
SMG1	16	18905791	T	C
SMG1	16	18850013	A	G
SMG1	16	18863720	C	A
SMG1	16	18896930	T	C
SMG1	16	18896938	C	A
SMG1	16	18900010	T	C
SMG1	16	18889540	A	G
MMP2	16	55443535	C	T
MMP2	16	55424680	C	G
MMP2	16	55427847	A	G
MMP2	16	55428131	T	C
MMP2	16	55425744	A	G
MMP2	16	55426600	C	T
MMP2	16	55427501	C	T
MMP2	16	55427879	A	G
MMP2	16	55427942	G	T
MMP2	16	55428132	G	A
MMP2	16	55433031	G	A
MMP2	16	55434228	T	C
MMP2	16	55434462	T	G
MMP2	16	55435492	A	G
MMP2	16	55435493	A	C
MMP2	16	55444134	C	T
MMP2	16	55444644	C	A
MMP2	16	55426105	T	G
MMP2	16	55426291	G	A
MMP2	16	55426817	T	C
MMP2	16	55427624	GCACACACA	G
MMP2	16	55429547	A	G
MMP2	16	55424801	T	G
MMP2	16	55424914	T	C
MMP2	16	55424928	C	G
MMP2	16	55425178	A	G
MMP2	16	55425834	C	G
MMP2	16	55426745	A	G
MMP2	16	55428934	T	A
ZFHX3	16	73004457	T	C
ZFHX3	16	73004532	T	C
ZFHX3	16	73004533	T	C
ZFHX3	16	73057701	T	C
ZFHX3	16	72933957	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZFHX3	16	72934376	T	C
ZFHX3	16	72934389	T	C
ZFHX3	16	72934424	T	C
ZFHX3	16	72968627	A	G
ZFHX3	16	72972111	T	C
ZFHX3	16	73004204	T	C
ZFHX3	16	73004466	T	C
ZFHX3	16	73004467	T	C
ZFHX3	16	73014302	AT	A
ZFHX3	16	73014468	C	T
ZFHX3	16	73015017	G	T
ZFHX3	16	73059332	AAC	A
ZFHX3	16	73008041	T	C
ZFHX3	16	72934008	T	C
ZFHX3	16	72981823	C	G
ZFHX3	16	73058610	T	A
TERF2IP	16	75651613	A	G
TERF2IP	16	75651411	G	A
TERF2IP	16	75651568	A	G
TERF2IP	16	75651610	A	G
TERF2IP	16	75651848	T	C
TERF2IP	16	75656381	A	G
TERF2IP	16	75650693	A	G
TERF2IP	16	75650697	A	G
TERF2IP	16	75651797	G	T
AC138512.1	16	88239932	AT	A
AC138512.1	16	88240072	A	G
AC138512.1	16	88245891	G	T
AC138512.1	16	88245898	G	A
AC138512.1	16	88245927	G	C
AC138512.1	16	88256747	C	T
AC138512.1	16	88257137	C	T
AC138512.1	16	88257174	G	A
AC138512.1	16	88257262	C	T
AC138512.1	16	88266252	C	G
AC138512.1	16	88246003	C	T
AC138512.1	16	88246023	T	A
AC138512.1	16	88256895	C	T
AC138512.1	16	88260025	T	A
AC138512.1	16	88246069	A	G
AC138512.1	16	88246118	A	C
AC138512.1	16	88239446	T	C
AC138512.1	16	88257021	C	T
AC138512.1	16	88260249	G	A
AC138512.1	16	88260392	A	C
AC138512.1	16	88260437	T	G
AC138512.1	16	88261255	T	C
FAM157C	16	90171027	A	G
FAM157C	16	90171124	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FAM157C	16	90167202	C	A
FAM157C	16	90168558	A	G
FAM157C	16	90168571	A	G
FAM157C	16	90168946	A	G
FAM157C	16	90168960	C	T
FAM157C	16	90169307	A	G
FAM157C	16	90169498	A	G
FAM157C	16	90169521	C	T
FAM157C	16	90170081	A	G
FAM157C	16	90170101	T	C
FAM157C	16	90170160	A	G
FAM157C	16	90170173	A	G
FAM157C	16	90167396	T	C
FAM157C	16	90167560	C	T
FAM157C	16	90168661	C	A
FAM157C	16	90169329	T	G
FAM157C	16	90169333	A	G
FAM157C	16	90169383	C	T
FAM157C	16	90169411	T	C
FAM157C	16	90169736	C	G
FAM157C	16	90170659	A	G
FAM157C	16	90111394	G	C
NCOR1	17	16056400	C	T
NCOR1	17	16171876	C	G
NCOR1	17	16173584	C	A
NCOR1	17	16154176	G	C
NCOR1	17	16211263	AT	A
NCOR1	17	16050734	T	TA
NCOR1	17	16055965	A	G
NCOR1	17	16130988	AT	A
NCOR1	17	16208081	G	A
NCOR1	17	16210803	T	C
NCOR1	17	16211143	G	C
NCOR1	17	16101873	T	C
NCOR1	17	16058489	TAAC	T
NCOR1	17	16162163	G	A
NCOR1	17	16210871	A	G
TOM1L2	17	17864505	C	T
TOM1L2	17	17950140	T	C
TOM1L2	17	17954408	A	G
TOM1L2	17	17916021	C	T
TOM1L2	17	17949866	A	T
TOM1L2	17	17952516	T	C
TOM1L2	17	17967660	G	T
TOM1L2	17	17920335	AT	A
TOM1L2	17	17843975	A	G
TOM1L2	17	17847244	G	A
TOM1L2	17	17844052	A	C
TOM1L2	17	17844200	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TOM1L2	17	17864453	A	G
TOM1L2	17	17952538	C	T
RFFL	17	35010392	G	A
RFFL	17	35011428	C	T
RFFL	17	35041037	A	C
RFFL	17	35059112	A	G
RFFL	17	35075961	C	T
RFFL	17	35076088	T	C
RFFL	17	35009895	T	G
RFFL	17	35010546	G	T
RFFL	17	35076221	T	C
RFFL	17	35012067	A	C
RFFL	17	35061688	CT	C
RFFL	17	35061821	T	C
RFFL	17	35064643	G	A
RFFL	17	35015003	C	G
RFFL	17	35045347	T	C
RFFL	17	35045393	T	C
RFFL	17	35045433	T	C
RFFL	17	35045476	T	C
RFFL	17	35048213	T	C
RFFL	17	35058588	T	C
RFFL	17	35059291	T	C
RFFL	17	35061783	T	C
RFFL	17	35061809	T	C
RFFL	17	35062279	T	C
RFFL	17	35065668	G	C
RFFL	17	35067229	T	C
RFFL	17	35010745	CA	C
RFFL	17	35010133	A	G
RFFL	17	35056375	CT	C
RFFL	17	35059003	A	G
RFFL	17	35076597	G	A
RFFL	17	35056011	C	T
RFFL	17	35059086	T	C
AC022916.1	17	35242749	G	C
AC022916.1	17	35240803	T	C
AC022916.1	17	35242289	G	A
AC022916.1	17	35241252	T	C
AC022916.1	17	35241948	G	A
AC022916.1	17	35242095	T	C
JUP	17	41755519	A	G
JUP	17	41755893	T	A
JUP	17	41769673	A	G
JUP	17	41786667	T	C
JUP	17	41757648	C	T
JUP	17	41767421	G	A
TTC25	17	41963690	A	G
TTC25	17	41946817	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TTC25	17	41956481	C	T
HDAC5	17	44080942	T	G
HDAC5	17	44081245	A	G
HDAC5	17	44081741	A	G
HDAC5	17	44078293	G	T
HDAC5	17	44081875	C	T
HDAC5	17	44087517	G	C
HDAC5	17	44103794	T	C
HDAC5	17	44081890	G	A
GRN	17	44352876	C	T
GRN	17	44346188	C	T
GRN	17	44346297	A	G
GRN	17	44346970	A	G
GRN	17	44347117	A	AA
GRN	17	44347231	G	C
GRN	17	44347862	A	G
GRN	17	44347945	G	A
GRN	17	44350262	T	C
GRN	17	44347697	A	G
GRN	17	44347762	A	G
GRN	17	44347944	AG	A
KANSL1	17	46119323	(various)	C
KANSL1	17	46135798	C	A
KANSL1	17	46158461	C	A
KANSL1	17	46030121	GT	G
KANSL1	17	46030147	GT	G
KANSL1	17	46030734	C	T
KANSL1	17	46030836	A	G
KANSL1	17	46030989	G	A
KANSL1	17	46031540	A	G
KANSL1	17	46033166	G	A
KANSL1	17	46033175	G	A
KANSL1	17	46034247	A	G
KANSL1	17	46036852	T	C
KANSL1	17	46049209	C	T
KANSL1	17	46064766	G	C
KANSL1	17	46064966	T	G
KANSL1	17	46064968	G	T
KANSL1	17	46077933	CT	C
KANSL1	17	46082483	T	C
KANSL1	17	46115029	G	T
KANSL1	17	46119287	G	A
KANSL1	17	46119433	G	A
KANSL1	17	46119456	G	A
KANSL1	17	46135416	T	C
KANSL1	17	46135649	A	G
KANSL1	17	46135821	G	T
KANSL1	17	46135838	C	T
KANSL1	17	46148436	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KANSL1	17	46148520	G	A
KANSL1	17	46148664	G	A
KANSL1	17	46148760	A	C
KANSL1	17	46149830	T	C
KANSL1	17	46155042	G	A
KANSL1	17	46155250	C	T
KANSL1	17	46155355	G	A
KANSL1	17	46158399	G	A
KANSL1	17	46158527	C	T
KANSL1	17	46165371	T	C
KANSL1	17	46168510	A	G
KANSL1	17	46171403	T	C
KANSL1	17	46171448	G	A
KANSL1	17	46171471	T	C
KANSL1	17	46186903	GT	G
KANSL1	17	46196523	C	T
KANSL1	17	46196553	A	G
KANSL1	17	46158639	C	T
KANSL1	17	46193619	G	A
KANSL1	17	46049439	T	C
KANSL1	17	46135542	AT	A
KANSL1	17	46149004	CT	C
KANSL1	17	46193293	G	A
KANSL1	17	46171133	G	C
KANSL1	17	46172129	C	T
KANSL1	17	46032108	G	A
KANSL1	17	46062537	T	C
KANSL1	17	46171482	G	A
TSPOAP1-AS1	17	58331728	G	C
TSPOAP1-AS1	17	58332210	C	T
TSPOAP1-AS1	17	58341783	A	G
TSPOAP1-AS1	17	58341815	A	G
TSPOAP1-AS1	17	58345753	C	T
TSPOAP1-AS1	17	58340547	A	G
TSPOAP1-AS1	17	58340775	G	A
TSPOAP1-AS1	17	58341095	TATTACC	T
TSPOAP1-AS1	17	58341665	A	G
TSPOAP1-AS1	17	58341681	A	G
TSPOAP1-AS1	17	58341861	A	G
TSPOAP1-AS1	17	58346824	C	A
TSPOAP1-AS1	17	58347349	T	C
TSPOAP1-AS1	17	58349428	G	A
TSPOAP1-AS1	17	58349781	A	C
TSPOAP1-AS1	17	58349957	G	A
TSPOAP1-AS1	17	58350295	C	T
TSPOAP1-AS1	17	58352403	G	A
TSPOAP1-AS1	17	58342010	AAAGG	A
TSPOAP1-AS1	17	58341867	T	C
TSPOAP1-AS1	17	58345840	G	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TSPOAP1-AS1	17	58350191	T	C
TSPOAP1-AS1	17	58352087	A	G
TSPOAP1-AS1	17	58352311	CA	C
TSPOAP1-AS1	17	58353389	G	A
TSPOAP1-AS1	17	58340761	A	G
TSPOAP1-AS1	17	58340895	A	G
TSPOAP1-AS1	17	58341786	A	G
USP32	17	60177769	G	A
USP32	17	60177359	CTATT	C
USP32	17	60228203	T	C
USP32	17	60237289	T	C
USP32	17	60248507	A	G
USP32	17	60314202	AT	A
USP32	17	60326448	T	C
USP32	17	60297623	T	C
USP32	17	60222812	T	G
USP32	17	60246704	A	T
USP32	17	60247338	C	T
USP32	17	60271806	T	C
USP32	17	60297447	CT	C
USP32	17	60330517	TC	T
USP32	17	60373548	AT	A
TANC2	17	63018492	AT	A
TANC2	17	63028915	T	C
TANC2	17	63067719	G	A
TANC2	17	63067721	T	C
TANC2	17	63140550	T	C
TANC2	17	63141559	C	G
TANC2	17	63179998	T	G
TANC2	17	63180866	A	G
TANC2	17	63237911	G	A
TANC2	17	63018352	A	G
TANC2	17	63123428	T	G
TANC2	17	63013597	A	G
TANC2	17	63141278	A	G
TANC2	17	63218055	A	G
TANC2	17	63167442	A	G
TANC2	17	63222649	T	C
MYO15B	17	75593872	C	T
MYO15B	17	75594194	A	G
MYO15B	17	75594749	T	G
MYO15B	17	75598579	A	G
MYO15B	17	75613058	C	T
MYO15B	17	75619771	G	A
MYO15B	17	75621129	C	T
MYO15B	17	75593086	A	C
MYO15B	17	75593277	G	A
MYO15B	17	75593477	A	G
MYO15B	17	75593562	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MYO15B	17	75593734	A	G
MYO15B	17	75594105	G	A
MYO15B	17	75594250	A	T
MYO15B	17	75594355	A	G
MYO15B	17	75594441	G	A
MYO15B	17	75591703	A	G
MYO15B	17	75591986	A	G
MYO15B	17	75610229	G	A
MYO15B	17	75615742	T	C
MYO15B	17	75617895	G	A
MYO15B	17	75619882	T	C
MYO15B	17	75619903	G	A
MYO15B	17	75620008	T	C
MYO15B	17	75620773	G	C
MYO15B	17	75620784	C	A
MYO15B	17	75620840	A	G
MYO15B	17	75623840	G	A
MYO15B	17	75594706	G	A
MYO15B	17	75594745	T	C
MYO15B	17	75606000	G	A
MYO15B	17	75607005	T	C
MYO15B	17	75610194	T	C
MYO15B	17	75613031	G	A
MYO15B	17	75615827	C	T
MYO15B	17	75621078	C	T
MYO15B	17	75624429	G	A
MYO15B	17	75588360	G	C
MYO15B	17	75588986	A	G
MYO15B	17	75588991	C	G
AC087645.2	17	78337000	C	T
AC087645.2	17	78323859	G	A
AC087645.2	17	78323877	T	C
AC087645.2	17	78324048	A	G
AC087645.2	17	78324410	G	A
AC087645.2	17	78324606	T	A
AC087645.2	17	78330459	G	A
AC087645.2	17	78342719	G	A
AC087645.2	17	78323789	C	T
AC087645.2	17	78324754	C	T
SCAT1	17	78624231	C	T
SCAT1	17	78620184	C	T
SCAT1	17	78617593	G	T
SCAT1	17	78619873	T	G
SCAT1	17	78627943	T	C
SCAT1	17	78627948	T	C
AATK	17	81142158	T	C
AATK	17	81142160	T	C
AATK	17	81142303	T	C
AATK	17	81141836	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AATK	17	81141953	TTTCCTTCC	T
AATK	17	81142186	T	C
AATK	17	81153685	A	C
AATK	17	81153878	C	G
AATK	17	81154319	CTTT	C
AATK	17	81154477	T	C
AATK	17	81117661	C	G
AATK	17	81117812	C	T
AATK	17	81117553	T	C
AATK	17	81119470	C	T
AATK	17	81120022	A	G
AATK	17	81121344	G	A
AATK	17	81121829	C	A
AATK	17	81142190	T	C
AATK	17	81154127	G	C
AATK	17	81154909	T	C
AATK	17	81155631	A	G
AATK	17	81150228	T	C
AATK	17	81150734	T	A
CSNK1G2	19	1948559	C	T
CSNK1G2	19	1945934	C	T
CSNK1G2	19	1977716	A	G
CSNK1G2	19	1948440	A	G
CSNK1G2	19	1948476	C	T
CSNK1G2	19	1948477	C	T
CSNK1G2	19	1981198	G	A
CSNK1G2	19	1948214	C	G
CSNK1G2	19	1948789	G	A
CSNK1G2	19	1978369	C	T
CSNK1G2	19	1962740	C	T
CSNK1G2	19	1977784	G	T
CSNK1G2	19	1981034	CCT	C
CSNK1G2	19	1941302	G	GG
PRAM1	19	8492024	T	C
PRAM1	19	8497289	T	C
PRAM1	19	8498572	C	G
PRAM1	19	8492349	T	C
PRAM1	19	8494717	T	C
PRAM1	19	8495526	T	C
PRAM1	19	8493890	T	C
PRAM1	19	8494832	T	C
PRAM1	19	8497173	CT	C
PRAM1	19	8497458	C	T
PRAM1	19	8494270	T	G
PRAM1	19	8494922	T	C
PRAM1	19	8499582	C	A
PRAM1	19	8499585	C	G
PRAM1	19	8499639	T	G
PRAM1	19	8502591	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TIMM29	19	10931201	A	G
TIMM29	19	10933125	A	G
TIMM29	19	10930517	A	G
TIMM29	19	10930855	A	G
TIMM29	19	10930862	T	G
TIMM29	19	10931060	C	T
TIMM29	19	10932067	G	A
TIMM29	19	10932938	A	G
TIMM29	19	10933063	A	G
AC010422.3	19	12646578	C	T
AC010422.3	19	12645446	T	C
AC010422.3	19	12645580	T	C
AC010422.3	19	12645642	A	G
AC010422.3	19	12646048	T	C
AC010422.3	19	12646373	T	C
AC010422.3	19	12646408	T	C
AC010422.3	19	12646228	T	C
ZSWIM4	19	13831773	G	A
ZSWIM4	19	13801058	G	A
ZSWIM4	19	13801088	A	G
ZSWIM4	19	13801248	T	C
ZSWIM4	19	13801417	G	A
ZSWIM4	19	13801498	A	G
ZSWIM4	19	13813920	CA	C
ZSWIM4	19	13825319	G	A
ZSWIM4	19	13825332	G	A
ZSWIM4	19	13831407	A	G
ZSWIM4	19	13801087	A	G
ZSWIM4	19	13803517	C	A
ZSWIM4	19	13803726	A	G
ZSWIM4	19	13832137	T	C
ZSWIM4	19	13801256	G	A
ZSWIM4	19	13814536	T	G
AC005776.2	19	15346161	A	G
AC005776.2	19	15348208	A	G
AC005776.2	19	15346167	A	G
AC005776.2	19	15347489	A	G
AC005776.2	19	15346550	A	G
AC005776.2	19	15347611	C	T
AKAP8L	19	15382037	T	C
AKAP8L	19	15382225	TA	T
AKAP8L	19	15383755	A	C
AKAP8L	19	15385121	G	A
AKAP8L	19	15385662	C	T
AKAP8L	19	15385932	C	CACA
AKAP8L	19	15394959	CT	C
AKAP8L	19	15395103	T	C
AKAP8L	19	15382226	A	T
AKAP8L	19	15397319	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AKAP8L	19	15395444	T	C
AKAP8L	19	15401582	G	A
WIZ	19	15423010	A	G
WIZ	19	15424635	C	G
WIZ	19	15431089	T	G
AC008764.4	19	16646891	T	C
AC008764.4	19	16647098	C	T
AC008764.4	19	16638371	T	C
AC008764.4	19	16641362	A	G
AC008764.4	19	16646897	T	C
AC008764.4	19	16638389	T	C
AC008764.4	19	16638432	T	C
AC008764.4	19	16644492	A	G
AC008764.4	19	16638185	T	C
AC008982.1	19	38837216	A	T
AC008982.1	19	38838565	C	T
AC008982.1	19	38835931	T	C
AC008982.1	19	38836461	GA	G
AC008982.1	19	38837383	C	T
AC008982.1	19	38835839	T	C
L34079.1	19	43586043	A	C
L34079.1	19	43586357	C	T
L34079.1	19	43581675	C	T
L34079.1	19	43584666	T	C
L34079.1	19	43588171	C	T
L34079.1	19	43588947	G	A
L34079.1	19	43586189	C	T
L34079.1	19	43587351	G	C
L34079.1	19	43587606	T	C
L34079.1	19	43587670	C	T
L34079.1	19	43588040	T	TGTA
L34079.1	19	43588322	C	A
L34079.1	19	43588977	T	G
L34079.1	19	43589614	C	G
L34079.1	19	43590336	CTCTT	C
L34079.1	19	43590925	A	G
ERCC2	19	45351661	T	G
ERCC2	19	45352266	G	A
ERCC2	19	45364001	C	T
C5AR2	19	47335651	A	G
C5AR2	19	47335859	G	T
C5AR2	19	47332635	T	C
C5AR2	19	47334512	A	G
C5AR2	19	47334558	A	G
C5AR2	19	47334565	A	C
C5AR2	19	47334725	CT	C
C5AR2	19	47334826	T	C
C5AR2	19	47334954	A	G
C5AR2	19	47335026	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
C5AR2	19	47335066	TA	T
C5AR2	19	47335159	C	T
C5AR2	19	47343306	C	T
C5AR2	19	47343313	C	T
C5AR2	19	47343576	T	C
C5AR2	19	47343902	T	C
C5AR2	19	47344335	G	A
C5AR2	19	47342099	A	G
C5AR2	19	47342130	A	G
C5AR2	19	47344200	A	G
C5AR2	19	47335678	A	G
C5AR2	19	47337304	A	G
C5AR2	19	47342643	A	G
C5AR2	19	47342655	A	G
C5AR2	19	47342588	A	G
PPP2R1A	19	52193910	A	G
PPP2R1A	19	52193930	A	G
PPP2R1A	19	52194034	A	G
PPP2R1A	19	52193750	A	G
PPP2R1A	19	52193703	A	G
PPP2R1A	19	52193929	A	G
PPP2R1A	19	52211326	C	A
PPP2R1A	19	52226183	C	T
LENG8	19	54451290	A	G
LENG8	19	54454681	A	G
LENG8	19	54455400	G	C
LENG8	19	54459190	C	G
LENG8	19	54459532	C	T
LENG8	19	54460316	G	A
LENG8	19	54455378	G	C
LENG8	19	54460595	G	A
LENG8	19	54461738	T	C
LENG8	19	54460050	C	T
LENG8	19	54461653	C	T
LENG8	19	54460081	G	C
LENG8	19	54461539	A	T
PPP6R1	19	55235518	C	T
PPP6R1	19	55235409	G	A
PPP6R1	19	55235587	T	C
PPP6R1	19	55235648	C	A
PPP6R1	19	55245612	A	G
PPP6R1	19	55252239	T	A
PPP6R1	19	55230593	G	C
PPP6R1	19	55241629	C	T
PPP6R1	19	55235754	C	A
PPP6R1	19	55240678	C	T
PPP6R1	19	55252485	G	A
ADAM17	2	9498252	A	C
ADAM17	2	9499065	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ADAM17	2	9506259	C	T
ADAM17	2	9506440	T	C
ADAM17	2	9507730	CT	C
ADAM17	2	9524053	T	A
ADAM17	2	9550718	T	C
ADAM17	2	9550720	T	C
ADAM17	2	9506531	T	C
ADAM17	2	9506962	A	C
ADAM17	2	9531083	G	A
ADAM17	2	9550542	T	C
ADAM17	2	9550646	T	C
ADAM17	2	9550726	T	C
ADAM17	2	9507416	C	T
ADAM17	2	9507480	C	T
ADAM17	2	9508086	C	T
ADAM17	2	9531151	T	C
ADAM17	2	9531161	T	C
ADAM17	2	9531378	T	C
ADAM17	2	9539227	C	A
ADAM17	2	9546311	A	G
ADAM17	2	9555777	A	G
ADAM17	2	9507851	T	C
ADAM17	2	9513135	T	C
ADAM17	2	9531162	T	C
ADAM17	2	9550873	T	C
ADAM17	2	9550953	T	C
ADAM17	2	9523744	T	C
ADAM17	2	9524035	C	T
ADAM17	2	9532676	C	T
ADAM17	2	9554491	C	T
ADAM17	2	9555153	C	T
ADAM17	2	9555759	G	T
ADAM17	2	9556313	G	C
ADAM17	2	9496956	C	G
ADAM17	2	9500088	CATAG	C
ADAM17	2	9531112	C	T
ADAM17	2	9553607	G	A
ADAM17	2	9556312	CG	C
ADAM17	2	9556435	T	G
ADAM17	2	9497202	A	G
ADAM17	2	9556321	C	T
ADCY3	2	24823221	T	C
ADCY3	2	24884843	CT	C
ADCY3	2	24884890	C	T
ADCY3	2	24893587	C	T
ADCY3	2	24894346	A	G
ADCY3	2	24894803	C	T
ADCY3	2	24895151	T	C
ADCY3	2	24895299	C	CA

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ADCY3	2	24895739	T	C
ADCY3	2	24895754	T	C
ADCY3	2	24896016	C	T
ADCY3	2	24911016	C	T
ADCY3	2	24911131	T	A
ADCY3	2	24911140	T	C
ADCY3	2	24916118	T	C
ADCY3	2	24829479	T	TG
ADCY3	2	24853535	C	T
ADCY3	2	24890934	C	T
ADCY3	2	24892374	A	G
ADCY3	2	24915896	C	T
ADCY3	2	24828108	T	C
ADCY3	2	24829308	C	T
ADCY3	2	24841324	G	A
ADCY3	2	24895193	C	T
ADCY3	2	24895326	A	T
HADHA	2	26190948	C	T
HADHA	2	26191048	C	T
HADHA	2	26232259	G	A
HADHA	2	26216389	T	C
HADHA	2	26201857	T	C
HADHA	2	26216531	A	G
HADHA	2	26201714	A	C
HADHA	2	26190740	T	A
HADHA	2	26193432	A	G
HADHA	2	26206582	C	G
HADHA	2	26228166	T	C
HADHA	2	26228228	T	C
HADHA	2	26228247	T	C
HADHA	2	26228259	T	C
CENPA	2	26782169	A	G
CENPA	2	26782303	A	G
CENPA	2	26781602	G	T
CENPA	2	26781386	C	T
CENPA	2	26781366	G	A
CENPA	2	26782153	G	T
SPRED2	2	65327877	T	C
SPRED2	2	65387873	T	A
SPRED2	2	65427230	C	T
SPRED2	2	65384942	T	C
SPRED2	2	65392343	T	C
SPRED2	2	65392402	T	C
SPRED2	2	65418616	C	T
SPRED2	2	65418640	C	A
SPRED2	2	65418652	T	C
SPRED2	2	65423730	G	T
SPRED2	2	65432354	A	G
SPRED2	2	65311333	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SPRED2	2	65327934	G	C
SPRED2	2	65327935	G	T
SPRED2	2	65392133	G	A
SPRED2	2	65397338	C	T
SPRED2	2	65400703	C	T
SPRED2	2	65401179	T	C
SPRED2	2	65415907	T	G
SPRED2	2	65418807	A	G
SPRED2	2	65423831	T	C
SPRED2	2	65328002	A	G
SPRED2	2	65399422	G	T
SPRED2	2	65399508	T	C
SPRED2	2	65408738	A	G
SPRED2	2	65427075	G	A
SPRED2	2	65311809	C	T
SPRED2	2	65362398	T	C
SPRED2	2	65362408	T	C
SPRED2	2	65392576	C	T
RGPD1	2	86988397	G	A
RGPD1	2	86988468	C	A
RGPD1	2	86988476	A	C
RGPD1	2	87000696	A	G
RGPD1	2	87000697	A	G
RGPD1	2	87000786	A	G
RGPD1	2	87000876	A	G
RGPD1	2	86998350	A	G
RGPD1	2	87000883	A	G
RGPD1	2	86985593	A	G
RGPD1	2	87013744	C	T
ZAP70	2	97739787	G	C
ZAP70	2	97713589	C	A
ZAP70	2	97738048	G	A
ZAP70	2	97739527	G	A
TANK-AS1	2	161128259	T	C
TANK-AS1	2	161128250	T	C
TANK-AS1	2	161128359	T	C
TANK-AS1	2	161153450	A	G
UBE2E3	2	181034788	G	A
UBE2E3	2	181035077	C	G
UBE2E3	2	181040924	C	CG
UBE2E3	2	181040943	C	A
UBE2E3	2	181041618	A	G
UBE2E3	2	181056081	TA	T
UBE2E3	2	180999902	G	A
UBE2E3	2	181034598	C	A
UBE2E3	2	181041705	GGATT	G
UBE2E3	2	181041761	T	G
UBE2E3	2	181056035	T	G
UBE2E3	2	181056036	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UBE2E3	2	181022731	A	C
UBE2E3	2	181034597	A	G
UBE2E3	2	181041086	A	G
HSPE1-MOB4	2	197521056	G	A
HSPE1-MOB4	2	197535239	A	G
HSPE1-MOB4	2	197541934	TA	T
HSPE1-MOB4	2	197544668	A	G
HSPE1-MOB4	2	197549715	G	A
HSPE1-MOB4	2	197549989	A	T
HSPE1-MOB4	2	197522802	A	G
AP1S3	2	223755679	T	C
AP1S3	2	223828292	T	A
AP1S3	2	223832807	CTT	C
AP1S3	2	223832865	C	A
AP1S3	2	223832951	AT	A
AP1S3	2	223832994	T	C
AP1S3	2	223755464	G	T
AP1S3	2	223755573	C	T
AP1S3	2	223755750	C	T
AP1S3	2	223806422	T	C
AP1S3	2	223828269	T	C
AP1S3	2	223757034	G	C
AP1S3	2	223757146	T	C
AP1S3	2	223757170	T	C
AP1S3	2	223782085	T	C
AP1S3	2	223806380	T	C
AP1S3	2	223806489	T	C
AP1S3	2	223755505	A	G
AP1S3	2	223755655	T	C
AP1S3	2	223755678	GTGC	G
AP1S3	2	223777862	A	C
AP1S3	2	223832780	T	G
LINC01237	2	241890392	G	A
LINC01237	2	241934133	T	C
LINC01237	2	241972166	G	C
LINC01237	2	241967921	A	G
LINC01237	2	241970788	G	A
LINC01237	2	241972120	T	C
LINC01237	2	241975583	G	A
LINC01237	2	241976006	C	T
LINC01237	2	241976155	T	C
LINC01237	2	241976171	G	C
LINC01237	2	241976273	T	C
LINC01237	2	241976453	C	T
LINC01237	2	241976520	T	C
LINC01237	2	241976886	C	T
LINC01237	2	241976890	T	C
LINC01237	2	241976995	A	G
LINC01237	2	241977068	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC01237	2	241977329	G	T
LINC01237	2	241977435	A	G
LINC01237	2	241977545	G	A
LINC01237	2	241977624	T	C
LINC01237	2	241977773	T	C
LINC01237	2	241977794	A	G
LINC01237	2	241978628	T	G
LINC01237	2	241981497	C	T
LINC01237	2	241981637	TGAG	T
LINC01237	2	241981668	A	G
LINC01237	2	241981669	T	C
LINC01237	2	241981672	A	G
LINC01237	2	241982402	C	T
LINC01237	2	242022953	G	T
CTSZ	20	58995258	A	G
CTSZ	20	58995513	G	A
CTSZ	20	58997620	A	G
CTSZ	20	58995401	C	T
CTSZ	20	58995799	G	A
CTSZ	20	58996708	A	G
CTSZ	20	58998800	C	T
CTSZ	20	58999408	A	G
CTSZ	20	58999423	C	G
CTSZ	20	58999508	A	G
CTSZ	20	58999512	TC	T
CTSZ	20	58999559	A	ATTC
CTSZ	20	58999796	A	G
CTSZ	20	58999904	C	G
CTSZ	20	59000077	AAAAC	A
CTSZ	20	59000226	A	G
CTSZ	20	59000256	T	C
CTSZ	20	59000539	C	T
CTSZ	20	59001119	G	A
CTSZ	20	59001125	A	G
CTSZ	20	59002512	A	G
CTSZ	20	59002805	C	T
CTSZ	20	59003453	T	C
CTSZ	20	59007230	C	CCGGCCT
CTSZ	20	59001292	C	A
CTSZ	20	58997784	G	T
CTSZ	20	58998541	C	T
CTSZ	20	58998953	C	T
CTSZ	20	58999761	G	C
CTSZ	20	58999786	A	G
CTSZ	20	59000026	C	A
CTSZ	20	59000966	T	C
CTSZ	20	59000967	T	C
CTSZ	20	59001340	C	T
CTSZ	20	59001977	T	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CTS2	20	59002203	C	T
CTS2	20	59002450	G	C
CTS2	20	59002589	A	G
CTS2	20	59003360	G	T
CTS2	20	59003559	A	G
CTS2	20	59004895	A	G
CTS2	20	59004920	T	C
CTS2	20	59006759	G	T
CTS2	20	59007159	G	T
CTS2	20	59007230	C	CCGGCCG
RRP1	21	43789678	C	T
RRP1	21	43797678	T	C
RRP1	21	43798048	T	C
RRP1	21	43799643	T	C
RRP1	21	43803786	C	T
RRP1	21	43804049	C	T
RRP1	21	43796113	T	C
RRP1	21	43796118	T	C
RRP1	21	43800602	A	G
AC007731.4	22	20441888	T	C
AC007731.4	22	20441830	G	T
MED15	22	20545418	G	A
MED15	22	20559223	A	G
MED15	22	20586851	G	T
MED15	22	20508359	T	G
MED15	22	20534404	A	G
MED15	22	20534640	A	G
MED15	22	20572008	G	C
MED15	22	20572888	A	G
MED15	22	20581089	A	G
MED15	22	20545270	A	G
MED15	22	20545473	CA	C
MED15	22	20575627	C	T
MED15	22	20575637	C	T
MED15	22	20575768	CA	C
MED15	22	20572663	A	G
MED15	22	20572804	A	G
MED15	22	20573242	A	G
MED15	22	20587264	C	T
MED15	22	20574999	C	G
MED15	22	20576055	CT	C
MED15	22	20579753	C	T
MED15	22	20582047	C	T
MED15	22	20582533	T	C
AC245060.5	22	22284983	T	C
AC245060.5	22	22285349	C	T
AC245060.5	22	22285432	TTCATC	T
AC245060.5	22	22285538	T	TTCA
AC245060.5	22	22285546	A	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC245060.5	22	22285853	G	A
AC245060.5	22	22285854	G	A
AC245060.5	22	22285856	C	A
AC245060.5	22	22286109	G	C
AC245060.5	22	22286117	G	C
AC245060.5	22	22286168	G	T
AC245060.5	22	22286172	T	TTCATC
AC245060.5	22	22286197	A	G
AC245060.5	22	22286392	T	C
AC245060.5	22	22286453	TTCTCA	T
AC245060.5	22	22286649	A	T
AC245060.5	22	22285404	CTCA	C
AC245060.5	22	22287219	ATCATT	A
AC245060.5	22	22286807	T	TCATCT
UPB1	22	24508578	AAG	A
UPB1	22	24511780	AT	A
UPB1	22	24518329	G	A
UPB1	22	24509320	T	C
UPB1	22	24521052	AC	A
UPB1	22	24521423	C	T
UPB1	22	24515744	A	G
UPB1	22	24527891	C	T
UPB1	22	24521201	G	T
UPB1	22	24521425	C	A
UPB1	22	24526484	T	G
UPB1	22	24517455	T	C
RAC2	22	37225405	C	G
RAC2	22	37225911	G	A
RAC2	22	37226775	A	G
RAC2	22	37231805	G	A
RAC2	22	37232015	G	GG
RAC2	22	37241613	G	C
RAC2	22	37233281	TG	T
RAC2	22	37232105	A	G
RAC2	22	37242920	T	C
RAC2	22	37225318	C	G
DESI1	22	41614788	T	C
DESI1	22	41614749	T	C
DESI1	22	41620951	GGGCCC	G
DESI1	22	41612716	T	C
DESI1	22	41614570	T	C
DESI1	22	41614619	C	T
DESI1	22	41614789	T	C
DESI1	22	41614897	TC	T
DESI1	22	41614898	C	T
DESI1	22	41599217	CAAG	C
DESI1	22	41599256	T	C
RAF1	3	12589928	T	C
RAF1	3	12589943	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RAF1	3	12593019	T	C
RAF1	3	12593095	CT	C
RAF1	3	12596176	T	G
RAF1	3	12597920	A	G
RAF1	3	12598008	TC	T
RAF1	3	12598010	C	T
RAF1	3	12598097	C	T
RAF1	3	12612061	A	G
RAF1	3	12634210	T	C
RAF1	3	12654190	G	A
RAF1	3	12590278	G	T
RAF1	3	12592053	T	C
RAF1	3	12595879	CT	C
RAF1	3	12597591	G	A
RAF1	3	12597799	T	C
RAF1	3	12597910	T	C
RAF1	3	12634153	CT	C
RAF1	3	12596194	CT	C
RAF1	3	12606657	A	G
RAF1	3	12641734	T	C
RAF1	3	12641811	T	C
RAF1	3	12651931	C	T
RAF1	3	12651940	T	C
RAF1	3	12620360	T	C
RAF1	3	12654187	T	C
RAF1	3	12587421	G	C
NR2C2	3	14978088	G	C
NR2C2	3	14981593	G	A
NR2C2	3	14981597	T	C
NR2C2	3	15039189	G	A
NR2C2	3	14981205	A	G
NR2C2	3	14981236	G	A
NR2C2	3	14995383	C	A
NR2C2	3	15018092	A	G
NR2C2	3	15019106	A	G
NR2C2	3	14977962	AAC	A
NR2C2	3	14980220	A	G
NR2C2	3	14980251	A	G
NR2C2	3	14980284	A	G
NR2C2	3	14980398	A	G
NR2C2	3	14981623	A	G
NR2C2	3	14993454	CA	C
NR2C2	3	14994733	A	G
NR2C2	3	15018201	A	G
NR2C2	3	15018881	A	C
NR2C2	3	15018959	A	G
NR2C2	3	15019151	A	G
NR2C2	3	15040116	C	T
NR2C2	3	15040200	G	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NR2C2	3	15040689	G	A
NR2C2	3	15045549	CT	C
NR2C2	3	15047557	G	C
NR2C2	3	14994808	A	G
NR2C2	3	15019283	G	A
NR2C2	3	15023315	T	A
NR2C2	3	15042607	CAA	C
NR2C2	3	15046088	T	C
NR2C2	3	15051102	G	A
NR2C2	3	15018807	A	G
RPSA	3	39408319	A	C
RPSA	3	39408871	G	A
RPSA	3	39408902	C	T
RPSA	3	39408979	A	G
RPSA	3	39408989	A	G
RPSA	3	39409127	TA	T
RPSA	3	39410025	A	G
RPSA	3	39410033	A	G
RPSA	3	39410615	A	G
RPSA	3	39411669	G	A
RPSA	3	39410632	G	A
RPSA	3	39410638	G	T
SNRK	3	43322690	T	C
SNRK	3	43323021	A	G
SNRK	3	43348575	C	T
SNRK	3	43306268	C	CT
SNRK	3	43323266	G	A
SNRK	3	43293806	T	C
SNRK	3	43303248	A	G
SNRK	3	43322674	C	T
SNRK	3	43323095	GT	G
SNRK	3	43324423	C	T
SNRK	3	43324469	A	G
SNRK	3	43340293	C	T
SNRK	3	43347747	C	T
SNRK	3	43348017	A	G
SNRK	3	43349461	CA	C
SNRK	3	43366660	T	C
SNRK	3	43366710	G	T
SNRK	3	43303683	G	A
SNRK	3	43350341	A	G
LIMD1	3	45680999	A	G
LIMD1	3	45680382	A	G
LIMD1	3	45680430	A	G
LIMD1	3	45680497	A	C
LIMD1	3	45680608	A	G
LIMD1	3	45680808	A	G
LIMD1	3	45608888	C	G
LIMD1	3	45614568	A	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LIMD1	3	45617616	C	G
LIMD1	3	45680344	A	G
LIMD1	3	45680377	A	G
LIMD1	3	45680399	A	G
LIMD1	3	45680425	A	G
LIMD1	3	45680551	A	G
LIMD1	3	45680555	A	G
LIMD1	3	45680889	A	G
LIMD1	3	45680916	A	G
LIMD1	3	45680930	A	G
LIMD1	3	45680931	A	G
LIMD1	3	45680938	A	G
LIMD1	3	45680942	A	C
LIMD1	3	45622152	A	T
LIMD1	3	45625335	A	G
LIMD1	3	45625351	A	G
LIMD1	3	45625365	A	G
LIMD1	3	45567583	C	T
LIMD1	3	45614858	G	C
LIMD1	3	45654605	A	G
CMSS1	3	99832761	A	G
CMSS1	3	99837439	GA	G
CMSS1	3	99948721	G	A
CMSS1	3	99832588	A	G
CMSS1	3	99832656	A	G
CMSS1	3	99832657	A	G
CMSS1	3	99832720	A	G
CMSS1	3	99832721	A	G
CMSS1	3	99832733	T	TG
CMSS1	3	99832792	A	G
CMSS1	3	99968886	A	G
CMSS1	3	99971487	T	C
CMSS1	3	99988340	C	A
CMSS1	3	99988402	A	G
CMSS1	3	99990415	TG	T
CMSS1	3	99832437	A	G
CMSS1	3	99832827	A	G
CMSS1	3	99832861	G	T
CMSS1	3	99948284	G	A
CMSS1	3	99898764	TAA	T
CMSS1	3	100162391	G	T
CMSS1	3	100167818	G	A
CMSS1	3	99842504	CA	C
CMSS1	3	99863398	G	T
CMSS1	3	99864640	C	T
CMSS1	3	99865585	G	A
GSK3B	3	119837243	C	T
GSK3B	3	119854834	C	T
GSK3B	3	120078836	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GSK3B	3	119997895	C	C
GSK3B	3	120001049	C	T
GSK3B	3	119995670	C	T
GSK3B	3	119941302	A	G
GSK3B	3	119959685	T	C
GSK3B	3	119823450	A	G
GSK3B	3	119824329	GCACA	G
GSK3B	3	119822243	TTA	T
GSK3B	3	119859941	A	T
GSK3B	3	119863444	A	G
GSK3B	3	119996886	T	C
GSK3B	3	120002133	T	A
GSK3B	3	120057986	G	T
GSK3B	3	119996729	T	C
GSK3B	3	119825768	T	C
ABTB1	3	127675977	C	T
ABTB1	3	127676974	G	A
PLXND1	3	129568630	C	T
PLXND1	3	129563137	C	T
PLXND1	3	129567570	G	C
PLXND1	3	129570909	C	T
PLXND1	3	129572656	G	A
PLXND1	3	129572908	T	C
PLXND1	3	129574340	T	C
PLXND1	3	129574413	T	C
PLXND1	3	129555520	G	A
PLXND1	3	129555613	C	T
PLXND1	3	129555812	C	T
PLXND1	3	129555971	G	A
PLXND1	3	129556093	A	G
PLXND1	3	129556363	C	T
PLXND1	3	129556560	C	A
PLXND1	3	129565975	A	C
PLXND1	3	129567792	G	A
PLXND1	3	129578380	C	G
PLXND1	3	129589366	G	A
PLXND1	3	129605350	A	G
PLXND1	3	129556509	C	T
PLXND1	3	129558638	T	C
PLXND1	3	129605373	C	G
PLXND1	3	129557088	A	G
FXR1	3	180917873	G	A
FXR1	3	180971209	C	CA
FXR1	3	180971721	ATACT	A
FXR1	3	180917765	A	C
FXR1	3	180921229	A	G
FXR1	3	180930557	TGAA	T
FXR1	3	180930582	G	A
FXR1	3	180930894	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FXR1	3	180942257	A	G
FXR1	3	180917686	T	C
FXR1	3	180942117	A	G
FXR1	3	180961177	A	G
FXR1	3	180942367	G	A
FXR1	3	180942303	C	T
FXR1	3	180971260	T	A
FXR1	3	180970383	AATAT	A
AC069257.3	3	196315913	T	C
AC069257.3	3	196315534	T	C
AC069257.3	3	196315750	T	C
AC069257.3	3	196296029	AGTT	A
AC069257.3	3	196317798	C	G
AC069257.3	3	196318023	G	C
MAEA	4	1303281	A	G
MAEA	4	1303321	A	G
MAEA	4	1303334	A	G
MAEA	4	1336971	T	C
MAEA	4	1303211	A	G
MAEA	4	1337187	C	G
MAEA	4	1337242	A	C
MAEA	4	1338354	C	T
MAEA	4	1302560	A	G
MAEA	4	1302609	A	G
MAEA	4	1302619	A	G
MAEA	4	1302742	A	G
MAEA	4	1303134	A	G
MAEA	4	1303210	A	G
MAEA	4	1298003	A	G
MAEA	4	1302533	A	G
MAEA	4	1297923	T	G
MAEA	4	1299540	A	T
MAEA	4	1299604	GC	G
MAEA	4	1300469	C	T
MAEA	4	1300676	T	A
MAEA	4	1300765	A	G
MAEA	4	1300792	C	T
MAEA	4	1301690	C	G
MAEA	4	1301966	TAAG	T
MAEA	4	1302203	C	T
MAEA	4	1302221	G	A
MAEA	4	1302375	T	C
MAEA	4	1302590	T	C
MAEA	4	1302797	A	G
MAEA	4	1302880	C	T
MAEA	4	1302894	G	A
MAEA	4	1303050	C	T
MAEA	4	1303076	C	G
MAEA	4	1303111	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MAEA	4	1303441	A	G
MAEA	4	1303452	G	C
MAEA	4	1303472	T	C
MAEA	4	1303592	C	T
MAEA	4	1303600	G	A
MAEA	4	1303665	G	T
MAEA	4	1303756	G	A
MAEA	4	1312011	C	T
MAEA	4	1315477	C	T
MAEA	4	1338387	A	G
MAEA	4	1315567	G	A
LYAR	4	4269581	T	C
LYAR	4	4269583	C	T
LYAR	4	4290098	C	T
LYAR	4	4290105	A	T
WDR1	4	10097716	T	C
WDR1	4	10079367	A	G
WDR1	4	10099676	G	T
WDR1	4	10100336	T	G
WDR1	4	10101083	A	G
WDR1	4	10102947	G	A
WDR1	4	10103046	A	G
WDR1	4	10116753	C	G
WDR1	4	10116726	C	A
WDR1	4	10081025	A	G
WDR1	4	10099188	A	G
WDR1	4	10113666	G	T
WDR1	4	10116104	G	A
WDR1	4	10086119	G	A
WDR1	4	10099177	T	C
WDR1	4	10075034	T	C
WDR1	4	10079577	G	A
WDR1	4	10079979	T	C
WDR1	4	10081375	C	T
WDR1	4	10085046	C	T
WDR1	4	10086291	G	A
WDR1	4	10088554	T	C
WDR1	4	10099459	C	G
WDR1	4	10099480	A	C
WDR1	4	10099819	C	T
WDR1	4	10102643	G	T
WDR1	4	10112861	A	G
WDR1	4	10113441	T	C
WDR1	4	10115657	C	T
WDR1	4	10116218	C	A
WDR1	4	10075236	G	A
BST1	4	15734426	A	G
BST1	4	15737865	A	G
BST1	4	15707629	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
BST1	4	15711823	C	T
BST1	4	15723455	A	G
BST1	4	15731831	A	C
BST1	4	15707569	G	A
BST1	4	15737793	G	C
BST1	4	15737805	A	T
BST1	4	15733483	C	T
BST1	4	15738203	G	C
RELL1	4	37673052	G	T
RELL1	4	37673218	T	C
RELL1	4	37673253	T	C
RELL1	4	37685931	T	A
RELL1	4	37685938	C	G
RELL1	4	37670789	A	G
RELL1	4	37673766	G	A
RELL1	4	37681722	T	C
FRYL	4	48657376	G	A
FRYL	4	48770272	TA	T
FRYL	4	48770663	G	C
FRYL	4	48688623	T	A
FRYL	4	48743067	A	T
FRYL	4	48774747	T	C
FRYL	4	48519475	C	T
FRYL	4	48519736	C	G
FRYL	4	48520048	A	T
FRYL	4	48676370	G	T
FRYL	4	48690063	AT	A
FRYL	4	48709022	C	T
FRYL	4	48740433	T	C
FRYL	4	48754452	A	G
FRYL	4	48754520	G	C
FRYL	4	48760459	T	C
FRYL	4	48774656	T	C
FRYL	4	48774684	T	C
FRYL	4	48774812	C	T
FRYL	4	48657292	T	G
ARHGAP10	4	147739284	G	A
ARHGAP10	4	147818454	C	T
ARHGAP10	4	147818565	CA	C
ARHGAP10	4	147832419	T	C
ARHGAP10	4	147758750	A	G
ARHGAP10	4	147758858	A	G
ARHGAP10	4	147758933	C	T
ARHGAP10	4	147759933	A	G
ARHGAP10	4	147759970	A	C
ARHGAP10	4	147760002	A	G
ARHGAP10	4	147758817	A	G
ARHGAP10	4	147922687	CA	C
ARHGAP10	4	147748094	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARHGAP10	4	147769097	A	G
ARHGAP10	4	147873888	A	G
ARHGAP10	4	147873889	A	G
ARHGAP10	4	147882641	T	C
ARHGAP10	4	147895866	T	C
ARHGAP10	4	147948769	A	G
ARHGAP10	4	147948849	G	C
ARHGAP10	4	148066036	G	A
ARHGAP10	4	148066144	T	G
ARHGAP10	4	147739067	A	G
ARHGAP10	4	147755007	A	G
DDX60	4	168290150	C	G
DDX60	4	168237320	T	G
DDX60	4	168237338	G	C
DDX60	4	168237380	T	C
DDX60	4	168276146	C	T
DDX60	4	168290062	G	C
DDX60	4	168291988	A	G
DDX60	4	168292125	A	G
DDX60	4	168316513	G	A
DDX60	4	168290615	G	C
SH3RF1	4	169181299	G	A
SH3RF1	4	169212087	A	G
SH3RF1	4	169235830	A	G
SH3RF1	4	169235847	C	A
SH3RF1	4	169094337	C	T
SH3RF1	4	169094786	A	T
SH3RF1	4	169096357	T	C
SDHA	5	230996	T	C
SDHA	5	234493	T	C
SDHA	5	226045	A	C
SDHA	5	228247	T	C
SDHA	5	241925	A	G
SDHA	5	242399	C	A
SDHA	5	251354	G	A
SDHA	5	251426	A	G
SDHA	5	254484	A	T
SDHA	5	256357	G	A
SDHA	5	256394	G	A
SDHA	5	224518	A	G
SDHA	5	233619	C	G
SDHA	5	235433	T	C
SDHA	5	240772	T	C
SDHA	5	240985	T	C
SDHA	5	241116	T	C
SDHA	5	241260	T	C
SDHA	5	241529	G	A
SDHA	5	242020	C	T
SDHA	5	242063	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SDHA	5	242096	T	C
SDHA	5	242148	G	C
SDHA	5	242280	C	T
SDHA	5	242390	C	T
SDHA	5	248230	T	C
SDHA	5	248246	A	AC
SDHA	5	248300	T	C
SDHA	5	249465	G	T
SDHA	5	235249	C	T
SDHA	5	220320	G	GG
SDHA	5	234195	A	G
SDHA	5	234283	A	G
SDHA	5	234288	A	C
SDHA	5	240744	A	G
SDHA	5	240913	T	C
SDHA	5	240914	G	A
SDHA	5	241346	G	A
SDHA	5	241352	C	T
SDHA	5	241407	T	C
SDHA	5	242525	A	G
NDUFS6	5	1805440	T	C
NDUFS6	5	1802115	C	T
NDUFS6	5	1812299	G	A
MARCHF6	5	10417477	G	T
MARCHF6	5	10417463	C	G
MARCHF6	5	10434531	A	G
MARCHF6	5	10435379	(various)	G
MARCHF6	5	10437323	C	A
MARCHF6	5	10437722	C	T
MARCHF6	5	10360998	T	G
MARCHF6	5	10353818	T	A
MARCHF6	5	10368673	A	G
MARCHF6	5	10353752	C	T
MARCHF6	5	10353880	C	T
MARCHF6	5	10382371	G	T
MARCHF6	5	10387049	A	G
MARCHF6	5	10405623	G	A
MARCHF6	5	10436042	TTTTTG	T
MARCHF6	5	10436488	A	T
ANKH	5	14709926	T	G
ANKH	5	14746241	A	G
ANKH	5	14773071	C	G
ANKH	5	14800567	G	A
ANKH	5	14800642	T	A
ANKH	5	14800671	C	A
ANKH	5	14807240	G	A
ANKH	5	14843289	T	C
ANKH	5	14846020	A	T
ANKH	5	14712600	A	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ANKH	5	14716224	A	G
ANKH	5	14775188	G	A
ANKH	5	14818257	T	C
ANKH	5	14825480	T	C
ANKH	5	14825552	T	C
ANKH	5	14825641	T	C
ANKH	5	14828579	T	C
ANKH	5	14845972	T	C
ANKH	5	14845993	T	C
ANKH	5	14845994	T	C
ANKH	5	14846263	A	G
ANKH	5	14847865	A	G
ANKH	5	14847913	T	C
ANKH	5	14868471	T	C
ANKH	5	14868688	T	C
ANKH	5	14868812	G	A
ANKH	5	14845558	G	C
ANKH	5	14768994	G	A
ANKH	5	14825443	T	C
ANKH	5	14847493	C	T
ANKH	5	14705556	T	C
ANKH	5	14710636	G	A
ANKH	5	14711550	A	G
ANKH	5	14715311	A	G
ANKH	5	14800307	T	C
ANKH	5	14806911	C	T
ANKH	5	14820308	A	G
ANKH	5	14820571	T	C
ANKH	5	14820818	C	T
ANKH	5	14711223	C	T
ANKH	5	14761763	CT	C
ANKH	5	14775197	T	C
ANKH	5	14820650	G	C
ANKH	5	14828486	C	T
ANKH	5	14868656	C	T
ANKH	5	14871511	ACGGGCGAC	A
ANKH	5	14808902	T	C
ANKH	5	14711166	T	C
MYO10	5	16823616	C	T
MYO10	5	16884657	CT	C
MYO10	5	16768638	C	A
MYO10	5	16768750	C	T
MYO10	5	16823693	C	T
MYO10	5	16823696	A	T
MYO10	5	16924969	T	C
MYO10	5	16720450	A	T
MYO10	5	16724964	G	A
MYO10	5	16725340	T	C
MYO10	5	16731044	CT	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MYO10	5	16767193	C	T
MYO10	5	16777910	G	T
MYO10	5	16778306	A	G
MYO10	5	16778670	A	C
MYO10	5	16781079	AT	A
MYO10	5	16816591	T	C
MYO10	5	16821628	A	G
MYO10	5	16821793	T	G
MYO10	5	16869110	C	T
MYO10	5	16918557	T	C
MYO10	5	16918665	T	C
MYO10	5	16918680	A	T
MYO10	5	16924900	T	G
MYO10	5	16924980	A	G
MYO10	5	16814978	GT	G
MYO10	5	16755676	C	T
MYO10	5	16814627	G	A
MYO10	5	16814774	TAACTG	T
MYO10	5	16815318	T	A
MYO10	5	16815421	G	C
MYO10	5	16902226	A	T
MYO10	5	16902403	A	T
ANKRA2	5	73552400	T	A
ANKRA2	5	73560492	T	C
ANKRA2	5	73553950	C	T
ANKRA2	5	73565484	G	A
ANKRA2	5	73565541	G	A
ANKRA2	5	73565277	C	G
ANKRA2	5	73552834	G	A
PCBD2	5	134927029	A	G
PCBD2	5	134927134	G	A
PCBD2	5	134927206	C	T
PCBD2	5	134927239	C	T
PCBD2	5	134927026	G	A
PCBD2	5	134927088	C	T
PCBD2	5	134927269	A	G
PCBD2	5	134927649	G	A
PCBD2	5	134927699	A	G
PCBD2	5	134927713	C	T
PCBD2	5	134927780	T	C
PCBD2	5	134927869	G	A
PCBD2	5	134927876	A	G
PCBD2	5	134926783	C	T
PCBD2	5	134926833	T	C
PCBD2	5	134926778	C	G
PCBD2	5	134924626	A	T
ANKHD1-EIF4EBP3	5	140542376	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ANKHD1-EIF4EBP3	5	140542551	A	G
ANKHD1-EIF4EBP3	5	140542693	CA	C
ANKHD1-EIF4EBP3	5	140542543	A	G
ANKHD1-EIF4EBP3	5	140542612	A	G
ANKHD1-EIF4EBP3	5	140546836	C	G
ANKHD1-EIF4EBP3	5	140546347	T	G
KCNIP1	5	170381205	A	C
KCNIP1	5	170389296	A	G
KCNIP1	5	170389561	A	G
KCNIP1	5	170378407	T	C
KCNIP1	5	170378625	T	G
KCNIP1	5	170378626	G	T
KCNIP1	5	170378997	T	C
KCNIP1	5	170381985	A	C
KCNIP1	5	170382114	G	C
KCNIP1	5	170382398	A	G
KCNIP1	5	170382618	G	A
KCNIP1	5	170382617	C	T
TMEM63B	6	44129365	CA	C
TMEM63B	6	44142444	C	T
TMEM63B	6	44145152	A	G
TMEM63B	6	44145154	A	G
TMEM63B	6	44145155	A	G
TMEM63B	6	44145160	A	G
TMEM63B	6	44145343	A	G
TMEM63B	6	44155142	C	A
TMEM63B	6	44142267	TAAA	T
TMEM63B	6	44142358	T	C
TMEM181	6	158635005	G	A
TMEM181	6	158577221	A	G
TMEM181	6	158577539	G	A
TMEM181	6	158611638	C	A
TMEM181	6	158618862	A	G
TMEM181	6	158620684	G	A
TMEM181	6	158621570	C	G
TMEM181	6	158632311	G	T
TMEM181	6	158632434	G	A
TMEM181	6	158634161	AAGTT	A
TMEM181	6	158634228	G	T
TMEM181	6	158634250	T	C
TMEM181	6	158634609	T	C
TMEM181	6	158635259	T	G
TMEM181	6	158565723	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TMEM181	6	158580147	A	G
TMEM181	6	158608836	G	A
TMEM181	6	158608921	C	A
TMEM181	6	158619281	G	A
TMEM181	6	158621844	C	A
TMEM181	6	158565620	C	T
TMEM181	6	158619274	C	G
TMEM181	6	158619867	CA	C
TMEM181	6	158632311	G	C
TMEM181	6	158633395	G	A
TCP1	6	159780263	C	A
TCP1	6	159783095	T	C
TCP1	6	159783294	C	T
TCP1	6	159783361	C	CTGGTT
TCP1	6	159784959	C	A
TCP1	6	159780645	G	A
TCP1	6	159789029	A	G
TCP1	6	159781135	G	A
TCP1	6	159785599	T	C
UPP1	7	48089253	G	A
UPP1	7	48089304	T	C
UPP1	7	48092794	C	T
UPP1	7	48103958	A	G
UPP1	7	48103964	A	G
UPP1	7	48104097	A	G
UPP1	7	48104124	A	G
UPP1	7	48104138	A	G
UPP1	7	48104139	A	G
UPP1	7	48106410	A	G
UPP1	7	48106411	A	G
UPP1	7	48106428	A	G
UPP1	7	48106494	A	G
UPP1	7	48106573	A	G
UPP1	7	48108037	C	T
UPP1	7	48101760	G	A
UPP1	7	48089771	A	G
UPP1	7	48089774	C	G
UPP1	7	48090342	C	T
UPP1	7	48101202	G	T
UPP1	7	48102597	G	T
UPP1	7	48102618	C	T
UPP1	7	48103965	A	G
UPP1	7	48107728	G	T
UPP1	7	48090544	G	A
UPP1	7	48093983	A	C
UPP1	7	48106127	C	T
ABHD11	7	73736364	A	C
ABHD11	7	73736397	G	A
ABHD11	7	73737314	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ABHD11	7	73736181	T	C
CLIP2	7	74295812	G	C
CLIP2	7	74368408	A	C
CLIP2	7	74379872	G	A
CLIP2	7	74320195	CA	C
CLIP2	7	74334711	A	G
CLIP2	7	74334929	A	G
CLIP2	7	74335804	G	A
CLIP2	7	74366690	A	G
CLIP2	7	74366691	A	G
CLIP2	7	74369755	G	C
CLIP2	7	74390226	G	A
CLIP2	7	74400419	G	C
CLIP2	7	74296814	A	G
CLIP2	7	74310109	A	G
CLIP2	7	74405694	C	G
CLIP2	7	74296571	T	C
CLIP2	7	74296583	T	C
CLIP2	7	74296733	A	G
CLIP2	7	74320213	A	G
CLIP2	7	74331242	T	C
CLIP2	7	74331343	A	G
CLIP2	7	74331387	A	G
CLIP2	7	74334868	A	G
CLIP2	7	74335347	ATTATT	A
CLIP2	7	74335956	T	A
CLIP2	7	74336012	GATT	G
CLIP2	7	74336347	C	T
CLIP2	7	74338920	T	C
CLIP2	7	74342455	T	C
CLIP2	7	74345778	C	T
CLIP2	7	74349208	A	G
CLIP2	7	74366657	A	G
CLIP2	7	74366756	A	G
CLIP2	7	74369453	G	T
CLIP2	7	74369926	A	G
CLIP2	7	74370392	G	C
CLIP2	7	74375400	A	C
CLIP2	7	74385202	A	G
CLIP2	7	74403214	CA	C
CLIP2	7	74404861	C	T
CLIP2	7	74405780	C	T
CLIP2	7	74319824	AAG	A
CLIP2	7	74368757	A	T
CLIP2	7	74370349	C	A
CLIP2	7	74320389	G	A
CLIP2	7	74343630	T	C
CLIP2	7	74404840	G	A
CLIP2	7	74405333	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CLIP2	7	74405857	C	A
MET	7	116716467	GAGAAAGAA	G
MET	7	116752140	A	G
MET	7	116765333	T	C
MET	7	116716022	G	C
MET	7	116754897	A	G
MET	7	116754901	A	G
MET	7	116754909	A	G
MET	7	116797552	G	A
MET	7	116718433	T	A
MET	7	116795714	C	T
MET	7	116797152	A	G
MET	7	116797450	A	C
MET	7	116798364	G	A
MET	7	116795968	G	A
MET	7	116796043	G	A
AC090114.3	7	128556744	T	G
AC090114.3	7	128572418	A	AC
AC090114.3	7	128579262	T	C
AC090114.3	7	128591484	G	A
AC090114.3	7	128607278	C	T
AC090114.3	7	128553311	A	G
AC090114.3	7	128553427	T	C
AC090114.3	7	128555024	A	G
AC090114.3	7	128555643	A	G
AC090114.3	7	128572396	G	A
AC090114.3	7	128554941	C	T
AC090114.3	7	128555690	A	G
AC090114.3	7	128572391	A	G
AC090114.3	7	128572841	A	G
AC090114.3	7	128572842	A	G
AC090114.3	7	128572944	A	G
AC090114.3	7	128533666	A	G
AC090114.3	7	128551005	A	G
AC090114.3	7	128610364	G	A
AC090114.3	7	128553642	A	G
AC090114.3	7	128572926	A	G
AC005229.4	7	148697503	A	G
AC005229.4	7	148698247	C	G
AC005229.4	7	148698392	G	C
KMT2C	7	152158504	ATTGT	A
KMT2C	7	152188625	G	T
KMT2C	7	152309580	C	T
KMT2C	7	152401273	T	C
KMT2C	7	152414699	T	C
KMT2C	7	152426436	T	C
KMT2C	7	152136741	A	G
KMT2C	7	152290421	T	C
KMT2C	7	152290492	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KMT2C	7	152405409	T	C
KMT2C	7	152406791	T	C
KMT2C	7	152426195	C	T
KMT2C	7	152162598	G	A
KMT2C	7	152405337	T	C
KMT2C	7	152387582	T	C
KMT2C	7	152387609	T	C
KMT2C	7	152136607	T	C
KMT2C	7	152154091	C	T
KMT2C	7	152154307	C	T
KMT2C	7	152226219	C	A
KMT2C	7	152226254	G	A
KMT2C	7	152226310	A	G
KMT2C	7	152226311	A	C
KMT2C	7	152226492	A	G
KMT2C	7	152249320	GT	G
KMT2C	7	152249369	G	C
KMT2C	7	152391438	T	C
KMT2C	7	152405373	T	C
KMT2C	7	152414689	T	C
KMT2C	7	152414777	T	C
KMT2C	7	152415032	G	A
KMT2C	7	152222622	G	A
KMT2C	7	152135289	A	G
KMT2C	7	152147663	C	T
PPP2CB	8	30785629	T	C
PPP2CB	8	30789023	C	T
PPP2CB	8	30795360	C	T
PPP2CB	8	30795410	T	C
PPP2CB	8	30808744	G	A
PPP2CB	8	30808976	G	A
PPP2CB	8	30786641	TTAATAA	T
PPP2CB	8	30786039	T	A
PPP2CB	8	30786916	C	T
PPP2CB	8	30811599	G	T
C8orf44-SGK3	8	66678225	C	T
C8orf44-SGK3	8	66717450	A	G
C8orf44-SGK3	8	66841070	CTA	C
C8orf44-SGK3	8	66723513	A	G
C8orf44-SGK3	8	66717454	A	G
C8orf44-SGK3	8	66717492	T	C
C8orf44-SGK3	8	66785010	A	G
C8orf44-SGK3	8	66828048	G	A
C8orf44-SGK3	8	66858294	G	A
PLEKHF2	8	95155740	C	T
PLEKHF2	8	95144746	A	G
PLEKHF2	8	95154868	GCTCT	G
PLEKHF2	8	95155088	G	A
PLEKHF2	8	95156512	A	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PLEKHF2	8	95133915	A	G
PLEKHF2	8	95155844	G	A
AC110741.1	8	133892942	CA	C
AC110741.1	8	133893036	A	G
AC110741.1	8	133893343	G	T
AC110741.1	8	133893508	G	A
AC110741.1	8	133893675	A	G
AC110741.1	8	133898109	C	G
AC110741.1	8	133891789	G	A
AC110741.1	8	133893240	GAGAA	G
AC110741.1	8	133902229	T	G
AC110741.1	8	133893292	G	A
ZCCHC7	9	37164635	A	G
ZCCHC7	9	37164643	A	G
ZCCHC7	9	37178357	A	G
ZCCHC7	9	37269563	A	G
ZCCHC7	9	37161524	A	G
ZCCHC7	9	37161525	A	G
ZCCHC7	9	37174951	A	G
ZCCHC7	9	37233893	T	G
ZCCHC7	9	37130235	CA	C
ZCCHC7	9	37131525	A	G
ZCCHC7	9	37164828	A	G
ZCCHC7	9	37357169	G	A
ZCCHC7	9	37163341	T	C
ZCCHC7	9	37358040	C	T
PCSK5	9	76111196	A	G
PCSK5	9	75947513	C	A
PCSK5	9	76043256	T	A
PCSK5	9	75944032	A	G
PCSK5	9	75947710	G	A
PCSK5	9	76041422	C	T
PCSK5	9	76083118	C	A
PCSK5	9	75890829	C	A
PCSK5	9	76124609	G	T
PCSK5	9	75890973	G	T
PCSK5	9	75891271	T	C
PCSK5	9	75950785	C	T
PCSK5	9	75950754	A	G
S1PR3	9	89004359	G	A
S1PR3	9	89004869	C	T
S1PR3	9	88992954	C	T
S1PR3	9	88993713	T	C
S1PR3	9	88996014	A	G
S1PR3	9	89003187	A	C
S1PR3	9	88992799	T	C
S1PR3	9	88995628	G	A
S1PR3	9	88995177	T	C
S1PR3	9	88998151	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
S1PR3	9	89003191	G	A
S1PR3	9	89003609	A	G
S1PR3	9	89003983	TC	T
S1PR3	9	89004270	G	A
S1PR3	9	89004514	T	C
TBC1D2	9	98205576	T	C
TBC1D2	9	98206316	T	C
TBC1D2	9	98209066	T	C
TBC1D2	9	98209718	TTTCC	T
TBC1D2	9	98209880	C	G
TBC1D2	9	98209990	CTT	C
TBC1D2	9	98210106	A	G
TBC1D2	9	98213582	C	A
TBC1D2	9	98216381	G	T
TBC1D2	9	98216988	G	A
TBC1D2	9	98217061	T	C
TBC1D2	9	98217063	T	C
TBC1D2	9	98218024	A	T
TBC1D2	9	98232441	T	C
TBC1D2	9	98233439	A	G
TBC1D2	9	98233476	G	T
TBC1D2	9	98242370	A	G
TBC1D2	9	98242745	G	A
TBC1D2	9	98242751	C	G
TBC1D2	9	98248260	C	T
TBC1D2	9	98231178	C	T
TBC1D2	9	98209993	T	C
TBC1D2	9	98232385	T	C
PTGDS	9	136975462	G	A
PTGDS	9	136977596	A	G
PTGDS	9	136981689	A	C
PTGDS	9	136981702	A	G
IL3RA	X	1336907	T	C
IL3RA	X	1341215	G	A
IL3RA	X	1341269	C	T
IL3RA	X	1341301	GA	G
IL3RA	X	1345099	C	T
IL3RA	X	1347587	C	G
IL3RA	X	1363494	G	A
IL3RA	X	1341255	A	G
IL3RA	X	1341661	A	G
IL3RA	X	1341724	G	C
IL3RA	X	1351929	T	C
IL3RA	X	1355656	G	A
IL3RA	X	1357011	C	A
IL3RA	X	1360031	ATC	A
IL3RA	X	1360057	A	G
IL3RA	X	1361666	T	A
IL3RA	X	1363530	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IL3RA	X	1363539	T	C
IL3RA	X	1364797	T	A
IL3RA	X	1364798	A	T
IL3RA	X	1378195	A	G
IL3RA	X	1380796	G	C
IL3RA	X	1350588	TA	T
IL3RA	X	1350649	C	G
IL3RA	X	1350672	T	C
IL3RA	X	1350682	G	A
IL3RA	X	1354354	G	A
IL3RA	X	1354393	A	C
IL3RA	X	1356686	T	C
IL3RA	X	1356689	T	C
IL3RA	X	1356785	A	C
IL3RA	X	1357050	T	C
IL3RA	X	1357679	G	A
IL3RA	X	1357922	A	G
IL3RA	X	1362130	GTC	G
IL3RA	X	1362250	GTC	G
IL3RA	X	1362634	T	C
IL3RA	X	1377728	C	G
IL3RA	X	1377729	G	C
IL3RA	X	1378030	A	G
IL3RA	X	1378166	A	G
IL3RA	X	1378751	G	C
IL3RA	X	1381559	T	G
IL3RA	X	1381605	T	C
IL3RA	X	1382578	C	T
IL3RA	X	1341249	G	A
IL3RA	X	1345165	T	C
IL3RA	X	1346364	G	A
IL3RA	X	1346371	A	G
IL3RA	X	1346644	A	G
IL3RA	X	1347813	T	C
IL3RA	X	1357573	T	C
IL3RA	X	1362165	CCT	C
IL3RA	X	1362690	G	A
IL3RA	X	1378240	A	G
IL3RA	X	1380877	A	G
IL3RA	X	1380942	T	C
IL3RA	X	1380985	T	G
IL3RA	X	1381505	C	T
IL3RA	X	1341602	G	A
IL3RA	X	1342323	A	G
IL3RA	X	1345291	C	T
IL3RA	X	1350225	C	T
IL3RA	X	1350469	G	A
IL3RA	X	1351001	A	G
IL3RA	X	1351909	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IL3RA	X	1352224	C	T
IL3RA	X	1352245	G	T
IL3RA	X	1352649	C	G
IL3RA	X	1355656	G	T
IL3RA	X	1359575	T	C
IL3RA	X	1360139	G	A
IL3RA	X	1362074	G	A
IL3RA	X	1378182	CA	C
IL3RA	X	1378620	C	T
IL3RA	X	1378794	G	A
IL3RA	X	1380100	A	G
IL3RA	X	1352267	C	G
IL3RA	X	1352308	A	C
IL3RA	X	1354326	G	A
IL3RA	X	1362012	GTC	G
IL3RA	X	1364563	T	C
IL3RA	X	1364948	A	G
IL3RA	X	1377273	A	G
IL3RA	X	1377309	T	C
IL3RA	X	1381948	G	T
IL3RA	X	1377158	C	T
SMS	X	21944414	G	A
SMS	X	21944886	A	G
SMS	X	21945025	A	G
SMS	X	21976565	A	C
SMS	X	21976588	GA	G
SMS	X	21986065	G	C
SMS	X	21944813	A	G
SMS	X	21979931	CA	C
SMS	X	21986398	C	A
SMS	X	21994794	TA	T
SMS	X	21944477	A	G
SMS	X	21944891	A	G
SMS	X	21942096	C	A
SMS	X	21972722	A	G
SMS	X	21980559	C	T
SMS	X	21986290	G	A
SMS	X	21979967	TTAATAA	T
SMS	X	21940733	A	G
KDM6A	X	44880285	G	A
KDM6A	X	44883888	A	G
KDM6A	X	44883917	A	G
KDM6A	X	44884016	A	G
KDM6A	X	44893138	A	G
KDM6A	X	44964328	A	C
KDM6A	X	45079318	G	A
KDM6A	X	44883982	A	G
KDM6A	X	44892838	A	G
KDM6A	X	44893064	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KDM6A	X	44933873	T	C
KDM6A	X	44964355	A	G
KDM6A	X	45109129	T	A
KDM6A	X	45082585	G	A
KDM6A	X	44892484	C	T
KDM6A	X	44933578	TTTTG	T
KDM6A	X	44883955	A	G
Z84466.1	X	47625846	G	A
Z84466.1	X	47628514	G	GG
Z84466.1	X	47624401	G	A
Z84466.1	X	47624526	A	G
Z84466.1	X	47625269	C	T
Z84466.1	X	47628517	T	A
Z84466.1	X	47625281	C	A
Z84466.1	X	47625441	C	T
STARD8	X	68724998	C	T
STARD8	X	68725578	A	G
STARD8	X	68706229	T	C
STARD8	X	68718550	C	T
STARD8	X	68725602	A	G
STARD8	X	68717433	C	T
IGBP1	X	70134690	A	G
IGBP1	X	70137077	C	T
IGBP1	X	70137595	G	C
IGBP1	X	70138366	A	G
IGBP1	X	70136784	G	A
IGBP1	X	70137931	A	G
IGBP1	X	70151644	G	A
IGBP1	X	70137969	CA	C
IGBP1	X	70158643	C	T
IGBP1	X	70138056	A	G
UTY	Y	13368019	T	A
UTY	Y	13390156	GT	G
UTY	Y	13396185	T	C
UTY	Y	13386229	T	C
UTY	Y	13299142	T	TT
UTY	Y	13479657	G	C
MTHFR	1	11790308	T	G
MTHFR	1	11794400	G	A
MTHFR	1	11796321	G	A
MTHFR	1	11800626	T	C
MTHFR	1	11790870	C	T
MTHFR	1	11794419	T	G
MTHFR	1	11800786	G	A
MTHFR	1	11803847	C	T
MTHFR	1	11804070	A	G
MTHFR	1	11804092	G	A
MTHFR	1	11804205	T	C
MTHFR	1	11804321	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MTHFR	1	11804529	T	C
MTHFR	1	11805006	ATTGC	A
MTHFR	1	11805179	C	T
MTHFR	1	11805747	A	G
MTHFR	1	11805759	G	GC
CLCN6	1	11824498	A	G
CLCN6	1	11842591	G	C
CLCN6	1	11823572	T	A
CLCN6	1	11816635	G	A
CLCN6	1	11841412	C	T
CLCN6	1	11842953	G	A
ALDH4A1	1	18871924	C	T
ALDH4A1	1	18875462	A	C
ALDH4A1	1	18872082	A	G
ALDH4A1	1	18872133	G	A
ALDH4A1	1	18872143	G	A
ALDH4A1	1	18872187	GC	G
ALDH4A1	1	18872401	A	G
ALDH4A1	1	18871920	G	A
EYA3	1	28073340	C	T
EYA3	1	28063419	T	C
EYA3	1	28063501	T	C
EYA3	1	28074611	C	T
EYA3	1	28050196	A	T
EYA3	1	28050199	A	T
EYA3	1	28050202	A	T
EYA3	1	28055650	T	C
EYA3	1	28063302	TA	T
EYA3	1	28086305	T	C
EYA3	1	27973568	T	A
EYA3	1	28007154	T	C
EYA3	1	28021729	C	G
EYA3	1	28063439	T	C
EYA3	1	28086338	T	C
EYA3	1	28086435	G	A
TRNAU1AP	1	28565781	T	C
TRNAU1AP	1	28566006	T	G
TRNAU1AP	1	28566248	G	A
TRNAU1AP	1	28561348	G	A
TRNAU1AP	1	28565795	A	AAAAAAAG
TRNAU1AP	1	28566207	C	T
TRNAU1AP	1	28566314	CA	C
TRNAU1AP	1	28566453	C	T
TRNAU1AP	1	28566656	G	A
TRNAU1AP	1	28569857	C	T
GMEB1	1	28700664	A	G
GMEB1	1	28716093	G	A
GMEB1	1	28675494	A	G
GMEB1	1	28709246	G	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GMEB1	1	28711102	A	G
GMEB1	1	28716741	TG	T
GMEB1	1	28687004	A	G
SH3D21	1	36322287	G	A
SH3D21	1	36307804	T	G
SH3D21	1	36308218	C	G
SH3D21	1	36310494	A	G
SH3D21	1	36310495	A	G
SH3D21	1	36321693	G	A
SH3D21	1	36322755	A	G
SH3D21	1	36328591	C	T
SH3D21	1	36326125	C	A
SH3D21	1	36319669	C	T
MMACHC	1	45512131	T	G
MMACHC	1	45512188	C	T
MMACHC	1	45512013	A	G
FAF1	1	50757808	C	T
FAF1	1	50957490	T	C
FAF1	1	50655526	T	C
FAF1	1	50731463	A	G
FAF1	1	50822750	C	T
FAF1	1	50957582	T	C
FAF1	1	50948459	C	T
MAGOH	1	53234498	T	C
MAGOH	1	53234436	C	T
GIPC2	1	78018730	C	T
STRIP1	1	110045302	G	A
STRIP1	1	110045334	G	A
STRIP1	1	110048194	C	T
STRIP1	1	110046957	G	A
STRIP1	1	110041635	C	T
STRIP1	1	110050052	T	G
STRIP1	1	110053947	G	A
STRIP1	1	110054282	A	G
AL358472.5	1	153931407	T	C
AL358472.5	1	153931738	T	C
AL358472.5	1	153931862	G	A
AL358472.5	1	153930055	A	T
NPL	1	182809232	G	A
NPL	1	182807971	GA	G
NPL	1	182809568	T	C
NPL	1	182828946	T	C
NPL	1	182829472	G	A
NPL	1	182829789	G	T
NPL	1	182795969	C	T
EDEM3	1	184690976	TA	T
EDEM3	1	184691071	T	A
EDEM3	1	184691621	TA	T
EDEM3	1	184692508	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EDEM3	1	184693047	C	T
EDEM3	1	184750748	T	C
EDEM3	1	184754001	T	C
EDEM3	1	184691608	A	G
EDEM3	1	184694403	A	C
EDEM3	1	184694447	T	C
EDEM3	1	184706680	G	A
EDEM3	1	184708330	G	A
ELK4	1	205611188	T	C
ELK4	1	205619509	C	T
ELK4	1	205608285	T	A
ELK4	1	205612571	C	T
ELK4	1	205613073	TA	T
ELK4	1	205615270	A	G
SIPA1L2	1	232527779	G	T
SIPA1L2	1	232525311	T	C
SIPA1L2	1	232399211	T	C
SIPA1L2	1	232428425	C	A
SIPA1L2	1	232460907	A	G
SIPA1L2	1	232399030	C	T
SIPA1L2	1	232399069	G	A
SIPA1L2	1	232439175	T	C
COX20	1	244843172	A	G
COX20	1	244841783	G	C
COX20	1	244842190	T	TG
COX20	1	244843525	A	G
COX20	1	244844813	C	T
COX20	1	244840792	T	G
COX20	1	244843318	G	C
HNRNPU	1	244856983	T	C
HNRNPU	1	244860594	C	T
HNRNPU	1	244864047	C	T
HNRNPU	1	244857068	C	G
HNRNPU	1	244863815	G	A
HNRNPU	1	244857065	G	A
SH3BP5L	1	248810964	T	C
SH3BP5L	1	248810645	C	T
ZNF672	1	248847255	C	T
ZNF672	1	248845607	G	A
ZNF672	1	248849447	G	T
AL390961.3	10	26697393	C	G
AL390961.3	10	26697394	T	C
AL390961.3	10	26697449	T	C
AL590068.4	10	30534577	A	G
AL590068.4	10	30547829	C	A
AL590068.4	10	30548348	G	C
AL590068.4	10	30549782	G	A
AL590068.4	10	30549800	C	A
AL590068.4	10	30549986	TA	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL590068.4	10	30550201	A	G
AL590068.4	10	30541908	C	A
AL590068.4	10	30529714	C	T
AL590068.4	10	30534489	C	T
AL590068.4	10	30536026	G	A
AL590068.4	10	30541663	T	C
AL590068.4	10	30541700	C	G
AL590068.4	10	30542010	C	T
AL590068.4	10	30542017	A	C
AL590068.4	10	30542458	A	G
AL590068.4	10	30541869	T	C
AL590068.4	10	30548919	C	T
PARGP1	10	45858469	CT	C
PARGP1	10	45870021	G	C
PARGP1	10	45870594	C	T
PARGP1	10	45872436	C	A
PARGP1	10	45858398	G	T
PARGP1	10	45862127	T	C
MCU	10	72703050	T	C
MCU	10	72722194	A	G
MCU	10	72723150	T	C
MCU	10	72722365	T	C
MCU	10	72747694	A	G
MCU	10	72742077	C	A
ADIRF-AS1	10	86970617	C	T
ADIRF-AS1	10	86970555	T	C
ADIRF-AS1	10	86969557	C	T
ADIRF-AS1	10	86970420	A	G
INPP5F	10	119828526	A	C
INPP5F	10	119828689	T	C
INPP5F	10	119828554	G	A
INPP5F	10	119829008	G	A
INPP5F	10	119829025	A	G
INPP5F	10	119829042	T	A
EIF4G2	11	10802088	C	T
EIF4G2	11	10802268	C	T
EIF4G2	11	10808559	A	G
EIF4G2	11	10803546	C	T
EIF4G2	11	10806403	T	C
EIF4G2	11	10808385	C	T
EIF4G2	11	10808885	G	A
AC018523.2	11	14505529	C	T
AC018523.2	11	14504104	G	A
AC018523.2	11	14509690	T	C
AC018523.2	11	14509913	T	C
AC018523.2	11	14515410	T	C
AC018523.2	11	14511337	A	G
AC018523.2	11	14513279	A	G
AC018523.2	11	14502820	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ACCS	11	44083431	C	T
ACCS	11	44079568	C	T
EXT2	11	44212300	T	A
EXT2	11	44212407	C	T
EXT2	11	44212418	T	C
EXT2	11	44107740	C	A
EXT2	11	44165033	C	T
AP000781.2	11	57404897	T	C
AP000781.2	11	57407111	T	C
AP000781.2	11	57407157	A	C
AP000781.2	11	57416686	C	T
AP000781.2	11	57404475	A	G
AP000781.2	11	57407038	T	C
AP000781.2	11	57407450	C	T
AP000781.2	11	57407665	TTGTG	T
AP000781.2	11	57410179	G	A
AP000781.2	11	57410395	T	C
AP000442.1	11	59574705	T	C
AP000442.1	11	59574798	G	A
AP000442.1	11	59574856	G	A
AP000442.1	11	59575088	AC	A
AP000442.1	11	59637206	T	C
AP000442.1	11	59574654	CG	C
AP000442.1	11	59575207	ACT	A
STX3	11	59774628	T	C
STX3	11	59774699	T	C
STX3	11	59802411	A	G
STX3	11	59805176	TA	T
STX3	11	59805196	A	C
STX3	11	59764103	G	T
STX3	11	59801737	T	C
AP003721.2	11	61059136	A	C
AP003721.2	11	61058604	G	T
AP003721.2	11	61058285	C	T
AP003721.2	11	61058695	G	A
AP003721.2	11	61061265	G	A
AP003721.2	11	61061276	G	GT
AP003733.3	11	61968632	G	A
AP003733.3	11	61968663	G	T
AP003733.3	11	61968664	T	G
AP003733.3	11	61969490	CA	C
AP003733.3	11	61968939	A	C
UCP2	11	73978059	G	A
UCP2	11	73981535	G	A
EPS8	12	15715276	T	C
EPS8	12	15715312	T	C
EPS8	12	15715388	A	T
EPS8	12	15620717	C	G
EPS8	12	15715541	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EPS8	12	15620487	T	C
MGST1	12	16348883	C	G
MGST1	12	16348617	A	G
MGST1	12	16364060	G	A
MGST1	12	16364098	T	G
R3HDM2	12	57371140	C	G
R3HDM2	12	57421241	T	C
R3HDM2	12	57421330	T	C
R3HDM2	12	57421333	T	C
R3HDM2	12	57421343	T	C
R3HDM2	12	57421930	T	C
R3HDM2	12	57392771	T	C
R3HDM2	12	57421263	T	C
R3HDM2	12	57421290	T	C
R3HDM2	12	57421445	C	T
R3HDM2	12	57429016	C	G
R3HDM2	12	57310326	T	C
R3HDM2	12	57340872	G	C
TMTC2	12	82763191	GA	G
TMTC2	12	82763271	AC	A
TMTC2	12	82762869	C	G
TMTC2	12	82701510	G	T
TMTC2	12	82722496	G	A
TMTC2	12	82727693	C	T
TMTC2	12	82743398	T	G
TMTC2	12	82769408	A	G
TMTC2	12	82795134	A	G
ATXN2	12	111467441	C	T
ATXN2	12	111508631	A	G
ATXN2	12	111582833	T	C
ATXN2	12	111483513	T	C
ATXN2	12	111573862	TTTTC	T
ATXN2	12	111574622	T	C
ATXN2	12	111574631	T	C
ATXN2	12	111586580	G	T
ATXN2	12	111452429	AT	A
ATXN2	12	111465295	AT	A
CDK8	13	26320401	T	A
CDK8	13	26374160	G	C
CDK8	13	26373908	G	A
CDK8	13	26374229	G	T
CDK8	13	26284036	G	A
CDK8	13	26284499	G	A
MIS18BP1	14	45224726	C	T
MIS18BP1	14	45226834	T	C
MIS18BP1	14	45242113	C	T
MIS18BP1	14	45231206	C	T
BLZF2P	14	68868847	T	C
BLZF2P	14	68868889	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
BLZF2P	14	68868926	C	T
BLZF2P	14	68869098	A	G
BLZF2P	14	68869099	C	T
BLZF2P	14	68869420	(various)	C
BLZF2P	14	68869521	G	C
BLZF2P	14	68868952	(various)	C
BLZF2P	14	68869414	T	C
BLZF2P	14	68869865	G	C
BLZF2P	14	68869830	C	T
BLZF2P	14	68869915	G	C
BATF	14	75529873	G	T
BATF	14	75529881	A	G
BATF	14	75533223	C	T
BATF	14	75544542	G	A
BATF	14	75544543	T	G
BATF	14	75546521	A	G
BATF	14	75546596	C	G
PPP2R5C	14	101766370	T	C
PPP2R5C	14	101821231	T	G
PPP2R5C	14	101836570	T	C
PPP2R5C	14	101837091	T	C
PPP2R5C	14	101837443	G	A
PPP2R5C	14	101838055	T	C
PPP2R5C	14	101838272	G	T
PPP2R5C	14	101838923	T	A
PPP2R5C	14	101911437	A	G
PPP2R5C	14	101922600	A	G
PPP2R5C	14	101925785	G	A
PPP2R5C	14	101926747	G	A
PPP2R5C	14	101926783	C	G
PPP2R5C	14	101927480	G	A
PPP2R5C	14	101765629	A	G
PPP2R5C	14	101765631	A	G
PPP2R5C	14	101765813	G	C
PPP2R5C	14	101800865	T	C
PPP2R5C	14	101802980	A	G
PPP2R5C	14	101803079	T	C
PPP2R5C	14	101809404	A	C
PPP2R5C	14	101809405	C	A
PPP2R5C	14	101821094	TAAAATA	T
PPP2R5C	14	101829681	G	A
PPP2R5C	14	101829701	T	C
PPP2R5C	14	101829746	G	C
PPP2R5C	14	101835092	C	T
PPP2R5C	14	101837335	T	C
PPP2R5C	14	101837367	C	G
PPP2R5C	14	101840384	GCAGC	G
PPP2R5C	14	101840476	C	G
PPP2R5C	14	101840523	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PPP2R5C	14	101856756	T	C
PPP2R5C	14	101896485	A	G
PPP2R5C	14	101896525	A	G
PPP2R5C	14	101765611	T	A
PPP2R5C	14	101766188	C	T
PPP2R5C	14	101830403	G	A
PPP2R5C	14	101883203	C	T
PPP2R5C	14	101883205	G	T
PPP2R5C	14	101925240	G	C
PPP2R5C	14	101762937	T	C
PPP2R5C	14	101820679	A	G
PPP2R5C	14	101837317	AT	A
PPP2R5C	14	101837654	C	T
PPP2R5C	14	101838294	A	C
PPP2R5C	14	101925723	G	A
AC135983.2	15	32520639	G	A
AC135983.2	15	32520653	T	C
AC135983.2	15	32523120	C	T
AC135983.2	15	32526904	C	T
AC135983.2	15	32528679	C	G
AC135983.2	15	32536860	C	G
SPRED1	15	38338038	TA	T
SPRED1	15	38303171	C	T
SPRED1	15	38326804	T	C
SPRED1	15	38356326	T	A
GATM	15	45361394	A	G
GATM	15	45379859	T	C
GATM	15	45379862	T	C
GATM	15	45379990	G	A
GATM	15	45380015	T	C
GATM	15	45380016	C	T
GATM	15	45402318	G	T
AC021752.1	15	50885751	T	C
AC021752.1	15	50903845	G	T
AC021752.1	15	50861748	C	T
AC021752.1	15	50907222	G	A
AC021752.1	15	50907567	A	G
AC021752.1	15	50907180	G	C
AC021752.1	15	50886608	GCTTT	G
AC021752.1	15	50889686	C	G
AC021752.1	15	50874129	C	T
MYO9A	15	71934636	G	A
MYO9A	15	71949516	T	C
MYO9A	15	71823392	T	C
MYO9A	15	71823422	C	A
FBXO22	15	75915963	T	C
FBXO22	15	75937285	A	G
FBXO22	15	75937388	A	G
FBXO22	15	75904581	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PDE8A	15	84996656	T	C
PDE8A	15	84996689	A	G
PDE8A	15	85078192	G	C
PDE8A	15	85128148	A	C
PDE8A	15	84996706	A	G
PDE8A	15	84996781	G	A
PDE8A	15	84993322	A	G
PDE8A	15	84993646	A	G
PDE8A	15	84993727	AT	A
PDE8A	15	84996359	A	G
PDE8A	15	85021533	A	G
PDE8A	15	85040308	GGC	G
PDE8A	15	85048973	A	G
PDE8A	15	85085922	T	G
PDE8A	15	85099034	G	C
PDE8A	15	85119829	A	C
PDE8A	15	85120399	T	C
PDE8A	15	85126221	C	T
PDE8A	15	85119694	C	T
PDPK1	16	2589567	A	G
PDPK1	16	2589624	A	G
PDPK1	16	2598917	C	T
PDPK1	16	2570561	G	A
PDPK1	16	2571110	G	A
PDPK1	16	2572114	T	C
PDPK1	16	2597875	C	T
PDPK1	16	2601813	C	G
USP7	16	8896363	G	A
USP7	16	8935151	T	C
USP7	16	8894835	C	G
USP7	16	8931433	T	C
USP7	16	8893182	C	T
USP7	16	8895839	GTT	G
USP7	16	8933584	T	G
USP7	16	8894278	C	A
USP7	16	8894381	C	T
USP7	16	8896382	T	C
USP7	16	8896823	C	A
USP7	16	8894721	G	A
USP7	16	8892606	TAAAAA	T
SMG1P1	16	22445718	C	G
SMG1P1	16	22459402	C	T
SMG1P1	16	22437821	C	A
SMG1P1	16	22438045	G	A
SMG1P1	16	22438254	C	C
SMG1P1	16	22438706	C	G
SMG1P1	16	22459432	C	T
SMG1P1	16	22477112	A	G
AFG3L1P	16	89984899	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AFG3L1P	16	89987905	C	A
AFG3L1P	16	89995601	G	C
AFG3L1P	16	89977098	C	G
AFG3L1P	16	89996112	G	C
AFG3L1P	16	89977705	C	G
AFG3L1P	16	89977732	C	T
AFG3L1P	16	89978872	A	C
AFG3L1P	16	89996071	G	A
TSR1	17	2335381	A	G
TSR1	17	2333110	T	C
TSR1	17	2330529	G	C
ANKFY1	17	4240143	C	T
ANKFY1	17	4224286	G	A
ANKFY1	17	4224361	T	C
ANKFY1	17	4240064	CT	C
ANKFY1	17	4240402	A	T
ANKFY1	17	4239995	T	C
CHD3	17	7909353	G	A
CHD3	17	7899136	A	C
CHD3	17	7909552	CA	C
CHD3	17	7912394	C	T
SUZ12P1	17	30768988	C	T
SUZ12P1	17	30783842	A	T
SUZ12P1	17	30784350	A	G
SUZ12P1	17	30788361	G	A
SUZ12P1	17	30783445	T	C
SUZ12P1	17	30774468	T	C
SUZ12P1	17	30782936	A	G
SUZ12P1	17	30783061	T	C
SUZ12P1	17	30783178	T	C
SUZ12P1	17	30783337	T	C
SUZ12P1	17	30783355	A	G
SUZ12P1	17	30783414	C	A
SUZ12P1	17	30783490	G	A
SUZ12P1	17	30784107	T	G
SUZ12P1	17	30785998	A	G
SUZ12P1	17	30783515	C	G
SUZ12P1	17	30783634	G	A
SUZ12P1	17	30784025	G	C
FBXL20	17	39253612	G	A
FBXL20	17	39256576	C	T
FBXL20	17	39284948	GT	G
FBXL20	17	39286759	T	C
FBXL20	17	39317840	T	C
FBXL20	17	39318624	T	C
FBXL20	17	39387353	T	C
FBXL20	17	39257081	T	C
FBXL20	17	39394534	C	T
FBXL20	17	39292918	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FBXL20	17	39365638	CA	C
FBXL20	17	39371658	T	G
FBXL20	17	39387358	T	C
FBXL20	17	39387539	A	G
FBXL20	17	39394437	T	C
FBXL20	17	39394519	T	C
FBXL20	17	39254447	C	T
FBXL20	17	39254639	C	G
FBXL20	17	39258589	C	T
FBXL20	17	39259291	C	T
FBXL20	17	39261322	C	G
FBXL20	17	39266297	G	A
FBXL20	17	39287085	C	G
FBXL20	17	39287119	G	A
FBXL20	17	39292582	T	C
FBXL20	17	39366882	CT	C
CCDC200	17	43226073	A	G
CCDC200	17	43226167	A	G
CCDC200	17	43227906	T	C
CCDC200	17	43227970	T	C
CCDC200	17	43302672	T	C
CCDC200	17	43226234	A	G
CCDC200	17	43240849	A	G
CCDC200	17	43264528	C	A
CCDC200	17	43270851	A	T
CCDC200	17	43295986	G	A
CCDC200	17	43302679	G	A
CCDC200	17	43226220	A	G
CCDC200	17	43227977	G	A
CCDC200	17	43240847	G	A
CCDC200	17	43246656	T	G
CCDC200	17	43302608	T	C
CCDC200	17	43221933	A	G
CCDC200	17	43224394	T	C
CCDC200	17	43225387	G	A
CCDC200	17	43225516	A	G
CCDC200	17	43225582	A	G
CCDC200	17	43227759	A	G
CCDC200	17	43227990	A	G
CCDC200	17	43231682	T	C
CCDC200	17	43233398	G	C
CCDC200	17	43233402	G	C
CCDC200	17	43233438	A	G
CCDC200	17	43240781	C	G
CCDC200	17	43240845	C	A
CCDC200	17	43246586	T	G
CCDC200	17	43251790	T	C
CCDC200	17	43254071	T	C
CCDC200	17	43254131	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CCDC200	17	43289888	C	G
CCDC200	17	43289896	G	C
CCDC200	17	43241028	C	G
CCDC200	17	43251677	C	G
CCDC200	17	43302881	A	G
ARL17B	17	46349775	(various)	C
ARL17B	17	46277527	T	C
ARL17B	17	46278166	G	A
ARL17B	17	46278236	A	G
ARL17B	17	46278268	C	A
ARL17B	17	46278317	G	A
ARL17B	17	46278820	G	A
ARL17B	17	46279028	T	C
ARL17B	17	46279044	T	C
ARL17B	17	46279184	CTTTT	C
ARL17B	17	46279328	T	C
ARL17B	17	46279380	T	C
ARL17B	17	46279427	A	G
ARL17B	17	46279440	C	T
ARL17B	17	46279464	A	G
ARL17B	17	46279500	CTT	C
ARL17B	17	46279524	T	C
ARL17B	17	46279583	T	C
ARL17B	17	46279791	A	G
ARL17B	17	46279806	C	T
ARL17B	17	46279832	G	A
ARL17B	17	46280741	G	T
ARL17B	17	46280743	A	T
ARL17B	17	46280762	C	T
ARL17B	17	46280774	A	G
ARL17B	17	46280869	T	C
ARL17B	17	46280885	C	T
ARL17B	17	46281355	C	T
ARL17B	17	46281445	G	A
ARL17B	17	46281446	G	A
ARL17B	17	46282046	T	C
ARL17B	17	46282074	G	C
ARL17B	17	46282133	C	T
ARL17B	17	46282200	T	G
ARL17B	17	46282220	A	G
ARL17B	17	46282339	G	A
ARL17B	17	46282375	T	A
ARL17B	17	46283146	G	T
ARL17B	17	46283157	C	A
ARL17B	17	46284983	C	T
ARL17B	17	46284989	A	G
ARL17B	17	46285044	T	G
ARL17B	17	46285267	G	T
ARL17B	17	46288210	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARL17B	17	46288286	T	C
ARL17B	17	46288303	G	A
ARL17B	17	46288308	T	C
ARL17B	17	46288438	A	G
ARL17B	17	46288614	A	T
ARL17B	17	46288615	A	T
ARL17B	17	46288774	G	C
ARL17B	17	46288919	A	G
ARL17B	17	46329100	G	A
ARL17B	17	46329542	C	T
ARL17B	17	46330638	A	C
ARL17B	17	46330700	C	A
ARL17B	17	46331889	A	G
ARL17B	17	46337318	T	C
ARL17B	17	46337512	A	G
ARL17B	17	46337792	G	A
ARL17B	17	46337831	C	T
ARL17B	17	46279070	T	C
ARL17B	17	46280649	T	C
ARL17B	17	46285186	C	T
ARL17B	17	46319492	T	C
ARL17B	17	46319493	T	C
ARL17B	17	46329759	A	G
ARL17B	17	46315719	T	C
ARL17B	17	46319034	G	T
ARL17B	17	46334529	T	C
ARL17B	17	46334543	T	C
ARL17B	17	46347871	A	G
ARL17B	17	46319136	T	C
ARL17B	17	46332877	A	T
TEX2	17	64147833	AC	A
TEX2	17	64196964	G	A
TEX2	17	64149937	A	G
TEX2	17	64193581	C	T
FAM20A	17	68599354	T	A
FAM20A	17	68590001	A	G
FAM20A	17	68590075	G	A
FAM20A	17	68599591	C	T
ENDOV	17	80415678	G	A
ENDOV	17	80416395	G	A
ENDOV	17	80415974	A	G
ENDOV	17	80415983	A	G
ENDOV	17	80418591	C	T
ENDOV	17	80423578	C	A
ENDOV	17	80423580	A	T
ENDOV	17	80425082	T	C
MRPL12	17	81705575	G	A
MRPL12	17	81705585	C	G
MRPL12	17	81704684	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MRPL12	17	81707345	C	T
DLGAP1	18	3604392	C	T
DLGAP1	18	3608292	C	A
DLGAP1	18	3597156	CTCTG	C
DLGAP1	18	3601937	A	T
DLGAP1	18	3607897	G	C
DLGAP1	18	3608088	G	T
DLGAP1	18	3608299	GC	G
DLGAP1	18	3602419	C	T
DLGAP1	18	3602477	C	T
DLGAP1	18	3606906	C	T
DLGAP1	18	3608246	C	G
DLGAP1	18	3607303	G	T
DLGAP1	18	3608121	A	G
DLGAP1	18	3608201	A	G
DLGAP1	18	3597840	C	T
DLGAP1	18	3597866	A	G
DLGAP1	18	3597005	G	C
DLGAP1	18	3607579	A	T
DLGAP1	18	3607780	A	G
MBD2	18	54154874	T	C
MBD2	18	54155274	T	C
MBD2	18	54175847	A	C
MBD2	18	54180874	G	A
MBD2	18	54210863	T	C
MBD2	18	54175426	C	T
MBD2	18	54215531	C	T
MBD2	18	54215817	C	T
MBD2	18	54177964	C	G
MBD2	18	54181040	C	T
MBD2	18	54181086	G	A
MBD2	18	54180903	C	T
NEDD4L	18	58045108	G	A
NEDD4L	18	58236377	T	A
NEDD4L	18	58094863	A	C
NEDD4L	18	58334308	C	G
NEDD4L	18	58045407	A	G
NEDD4L	18	58050479	A	G
NEDD4L	18	58050499	G	A
NEDD4L	18	58069057	A	G
NEDD4L	18	58262561	G	A
NEDD4L	18	58262631	GAA	G
NEDD4L	18	58262733	T	C
NEDD4L	18	58396589	T	C
NEDD4L	18	58044434	C	T
NEDD4L	18	58095012	C	G
NEDD4L	18	58185063	C	A
NEDD4L	18	58391536	G	A
NEDD4L	18	58044635	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NEDD4L	18	58045444	T	C
MYDGF	19	4657945	A	C
MYDGF	19	4658035	A	G
MYDGF	19	4670301	C	G
MYDGF	19	4670224	C	G
CD70	19	6586257	G	A
CD70	19	6583770	A	G
CD70	19	6585024	C	A
CD70	19	6585036	C	G
CD70	19	6585080	A	G
CD70	19	6591135	C	A
MAST3	19	18129938	G	A
MAST3	19	18137336	T	C
MAST3	19	18146940	C	T
MAST3	19	18144549	G	A
SUGP2	19	18991781	A	T
SUGP2	19	18992348	CT	C
SUGP2	19	18994964	G	A
SUGP2	19	19007752	A	G
SUGP2	19	19025732	C	T
POP4	19	29615752	G	A
POP4	19	29615984	T	C
CEP89	19	32969630	A	G
CEP89	19	32969207	T	G
CEP89	19	32969570	G	A
CEP89	19	32969090	C	T
CEP89	19	32899890	G	A
PROSER3	19	35770440	TA	T
PROSER3	19	35770471	C	T
PROSER3	19	35770668	A	G
PROSER3	19	35770622	A	G
PROSER3	19	35769209	T	C
PROSER3	19	35770783	A	G
PROSER3	19	35770888	TA	T
TIMM50	19	39491979	A	G
TIMM50	19	39492765	C	A
TIMM50	19	39492819	T	C
TIMM50	19	39491790	A	G
TIMM50	19	39491689	A	G
TIMM50	19	39491701	A	G
TIMM50	19	39491748	A	G
TIMM50	19	39492322	G	T
TIMM50	19	39492826	A	G
TIMM50	19	39491806	A	G
TIMM50	19	39493593	C	T
C19orf54	19	40751271	G	C
C19orf54	19	40741209	A	G
C19orf54	19	40741430	G	A
PRKD2	19	46707034	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PRKD2	19	46681099	G	A
PRKD2	19	46682662	G	C
PRKD2	19	46689165	A	G
PRKD2	19	46708420	T	C
PRKD2	19	46708521	T	C
PRKD2	19	46716193	A	G
PRKD2	19	46709336	A	G
LENG9	19	54462100	G	C
LENG9	19	54462473	C	T
LENG9	19	54463591	T	A
LENG9	19	54462127	C	T
PPP1R21	2	48472778	T	C
PPP1R21	2	48494208	C	T
PPP1R21	2	48444175	G	A
PPP1R21	2	48491539	CA	C
PPP1R21	2	48515167	T	C
PPP1R21	2	48515216	TTC	T
PPP1R21	2	48486638	C	T
PPP1R21	2	48493848	T	G
XPO1	2	61513352	G	T
XPO1	2	61537939	G	A
XPO1	2	61525019	G	A
UGP2	2	63841144	G	C
UGP2	2	63877925	G	A
UGP2	2	63842598	G	A
UGP2	2	63872691	G	A
UGP2	2	63872809	T	A
UGP2	2	63877994	C	A
UGP2	2	63887419	G	A
C1D	2	68042936	A	G
C1D	2	68042828	CGGGGGG	C
TMEM150A	2	85599009	G	A
TMEM150A	2	85599598	G	A
IL36RN	2	113063078	A	T
IL36RN	2	113063095	A	G
IL36RN	2	113063155	T	C
IL36RN	2	113063237	C	G
IL36RN	2	113063623	T	C
IWS1	2	127496723	A	G
IWS1	2	127499311	C	G
IWS1	2	127499095	CTTTT	C
IWS1	2	127501399	C	T
IWS1	2	127514892	A	G
IWS1	2	127525775	A	G
IWS1	2	127480950	C	T
IWS1	2	127492014	G	T
IWS1	2	127499151	C	A
FASTKD1	2	169546520	T	C
FASTKD1	2	169570957	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FASTKD1	2	169529784	C	A
FASTKD1	2	169570840	T	C
FASTKD1	2	169545975	A	C
FASTKD1	2	169555183	T	C
FASTKD1	2	169530606	A	G
DYNC1I2	2	171697651	T	C
DYNC1I2	2	171721351	G	A
DYNC1I2	2	171697724	A	G
DYNC1I2	2	171697489	G	A
DYNC1I2	2	171739105	A	G
DYNC1I2	2	171697534	T	C
DYNC1I2	2	171697853	CAAGAA	C
NOP58	2	202288359	C	T
NOP58	2	202269705	C	T
NOP58	2	202273922	A	G
NOP58	2	202291213	A	C
NOP58	2	202303450	C	T
NOP58	2	202303512	C	G
NOP58	2	202286270	T	C
NOP58	2	202288684	A	G
NOP58	2	202275121	T	C
C20orf194	20	3395266	T	C
C20orf194	20	3249714	G	A
C20orf194	20	3323345	A	G
C20orf194	20	3336069	T	G
C20orf194	20	3368965	T	TA
C20orf194	20	3369007	T	C
C20orf194	20	3318123	T	G
C20orf194	20	3337114	C	T
C20orf194	20	3383512	T	C
C20orf194	20	3402750	C	G
C20orf194	20	3304493	T	C
CHMP4B	20	33821336	G	A
CHMP4B	20	33840329	A	C
CHMP4B	20	33849336	C	T
CHMP4B	20	33811394	C	G
CHMP4B	20	33821386	CA	C
CHMP4B	20	33849480	A	G
CHMP4B	20	33849748	G	A
CHMP4B	20	33819912	A	G
CHMP4B	20	33819913	A	G
CHMP4B	20	33849827	A	G
CHMP4B	20	33814623	A	G
CHMP4B	20	33820190	A	G
CHMP4B	20	33854337	C	A
NCOA6	20	34714996	ACAT	A
NCOA6	20	34796209	T	C
NCOA6	20	34749948	T	C
NCOA6	20	34763184	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NCOA6	20	34764061	T	C
NCOA6	20	34764226	T	C
NCOA6	20	34786299	T	C
NCOA6	20	34805059	A	G
NCOA6	20	34807618	T	C
NCOA6	20	34821547	G	A
NCOA6	20	34764435	T	C
NCOA6	20	34764360	T	C
NCOA6	20	34764366	T	C
NCOA6	20	34796153	T	C
NCOA6	20	34804936	C	T
NCOA6	20	34823622	G	C
NCOA6	20	34796242	T	C
TGM2	20	38142186	C	T
TGM2	20	38153247	G	C
TGM2	20	38153297	G	A
TGM2	20	38129644	G	A
TGM2	20	38129768	G	A
TGM2	20	38153643	G	T
CSE1L	20	49096526	C	T
CSE1L	20	49095872	A	G
CSE1L	20	49068783	G	C
NTSR1	20	62719733	G	A
NTSR1	20	62723361	C	T
NTSR1	20	62762457	CT	C
NTSR1	20	62762521	C	T
NTSR1	20	62713232	T	C
NTSR1	20	62721319	A	G
NTSR1	20	62723582	G	A
NTSR1	20	62724893	G	A
NTSR1	20	62724916	T	C
NTSR1	20	62725117	T	G
NTSR1	20	62761876	A	G
NTSR1	20	62719950	G	C
NTSR1	20	62723169	T	C
NTSR1	20	62723422	C	A
NTSR1	20	62723881	C	T
NTSR1	20	62724010	C	G
NTSR1	20	62724238	A	G
NTSR1	20	62724245	T	C
NTSR1	20	62724372	A	G
NTSR1	20	62726121	T	C
NTSR1	20	62762093	A	G
NTSR1	20	62762106	C	T
NTSR1	20	62744752	C	G
NTSR1	20	62745408	C	G
NTSR1	20	62745473	G	A
NTSR1	20	62745496	A	G
NTSR1	20	62761102	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NTSR1	20	62762030	C	T
NTSR1	20	62762534	C	T
EEF1A2	20	63488262	A	G
EEF1A2	20	63494832	A	G
PRPF6	20	64010222	G	A
PRPF6	20	64009213	A	G
PRPF6	20	64033012	C	T
PRPF6	20	64031162	T	G
PRPF6	20	64031695	C	A
TXN2	22	36467200	A	C
TXN2	22	36467467	A	AG
TXN2	22	36467627	CCT	C
TXN2	22	36467328	C	A
MICALL1	22	37919462	C	T
MICALL1	22	37927500	G	T
MICALL1	22	37932590	A	G
MICALL1	22	37915123	A	G
ATXN10	22	45828197	T	A
ATXN10	22	45742530	TA	T
ATXN10	22	45844210	G	A
PP2D1	3	19987078	G	A
PP2D1	3	19988688	C	T
PP2D1	3	19988044	C	T
CDCP1	3	45126100	GTC	G
CDCP1	3	45117542	C	T
CDCP1	3	45099060	A	G
CDCP1	3	45107182	A	G
CDCP1	3	45122331	C	A
CDCP1	3	45082859	C	T
CDCP1	3	45086023	T	C
CDCP1	3	45082677	T	C
CDCP1	3	45083138	C	T
CDCP1	3	45083575	G	A
CDCP1	3	45089117	G	A
CDCP1	3	45089121	C	T
CDCP1	3	45126119	T	C
CDCP1	3	45082879	T	G
TUSC2	3	50325325	T	C
TUSC2	3	50325592	G	A
TUSC2	3	50325978	G	A
TUSC2	3	50324940	G	A
UBA3	3	69076730	A	C
UBA3	3	69076369	T	C
UBA3	3	69076746	T	C
UBA3	3	69077344	T	C
UBA3	3	69073792	C	T
CD80	3	119538341	G	A
CD80	3	119548125	C	T
CD80	3	119548158	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CD80	3	119548163	T	C
ACAD9	3	128895342	A	C
ACAD9	3	128912829	GGA	G
ACAD9	3	128899440	T	C
ACAD9	3	128901424	TC	T
ACAD9	3	128901547	A	G
ACAD9	3	128902197	C	T
ACAD9	3	128902520	A	G
ACAD9	3	128909966	A	G
ACAD9	3	128909090	C	T
FAM193A	4	2718350	C	T
FAM193A	4	2696503	G	A
FAM193A	4	2720030	A	C
FAM193A	4	2721357	A	G
FAM193A	4	2726950	CA	C
FAM193A	4	2732405	C	T
FAM193A	4	2732448	G	A
FAM193A	4	2701354	C	T
FAM193A	4	2703917	T	A
FAM193A	4	2718426	TA	T
FAM193A	4	2642173	G	A
FAM193A	4	2642266	A	G
FAM193A	4	2677675	A	G
FAM193A	4	2704214	G	A
FAM193A	4	2704376	A	G
FAM193A	4	2718489	A	G
FAM193A	4	2718606	A	G
FAM193A	4	2719512	C	G
FAM193A	4	2719625	A	G
FAM193A	4	2719903	A	G
FAM193A	4	2719943	C	T
FAM193A	4	2719955	A	G
FAM193A	4	2721088	T	C
FAM193A	4	2725375	A	G
FAM193A	4	2731248	A	G
FAM193A	4	2719472	C	A
FAM193A	4	2721066	C	T
FAM193A	4	2717331	A	G
CD38	4	15792437	T	A
CD38	4	15792446	G	A
CD38	4	15792427	T	A
CD38	4	15792463	A	G
CD38	4	15792468	G	A
CD38	4	15801240	G	A
CD38	4	15852061	T	C
CD38	4	15852797	G	A
CD38	4	15853102	G	A
PLPP1	5	55431610	C	A
PLPP1	5	55427191	A	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PLPP1	5	55431833	C	T
PLPP1	5	55434043	C	T
PLPP1	5	55497419	C	T
SLC38A9	5	55688411	A	G
SLC38A9	5	55688434	C	T
SLC38A9	5	55695196	C	A
SLC38A9	5	55707032	G	T
SLC38A9	5	55712246	A	G
NDUFAF2	5	60945315	G	A
NDUFAF2	5	60961765	CA	C
NDUFAF2	5	60986901	T	C
NDUFAF2	5	61056756	C	T
NDUFAF2	5	61074836	C	T
NDUFAF2	5	61096795	C	T
NDUFAF2	5	60961623	A	G
NDUFAF2	5	61039290	A	G
NDUFAF2	5	60952901	G	A
NDUFAF2	5	60977972	C	T
NDUFAF2	5	60978096	C	A
NDUFAF2	5	60986959	A	T
NDUFAF2	5	60987189	A	G
NDUFAF2	5	60987266	A	G
NDUFAF2	5	61105629	CA	C
NDUFAF2	5	61105779	A	G
NDUFAF2	5	61126869	C	A
NDUFAF2	5	60947604	A	G
NDUFAF2	5	60947607	A	G
NDUFAF2	5	60947748	A	G
NDUFAF2	5	60962721	T	C
NDUFAF2	5	60977256	C	T
NDUFAF2	5	60986848	C	T
NDUFAF2	5	60986857	A	T
NDUFAF2	5	60987190	A	G
NDUFAF2	5	60961273	A	G
NDUFAF2	5	60987322	A	T
NDUFAF2	5	61154375	C	T
NDUFAF2	5	60977920	A	G
FAM151B	5	80519839	T	C
FAM151B	5	80495786	G	A
FAM151B	5	80511353	A	G
FAM151B	5	80511407	C	G
APBB3	5	140560648	G	A
APBB3	5	140561643	A	G
APBB3	5	140561733	A	G
UIMC1	5	176905255	T	C
UIMC1	5	176943401	A	G
UIMC1	5	176951573	G	T
UIMC1	5	176975400	G	A
UIMC1	5	176982623	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UIMC1	5	176950326	T	C
UIMC1	5	176955994	G	A
UIMC1	5	176988963	A	G
UIMC1	5	176906125	C	T
UIMC1	5	176912498	G	A
UIMC1	5	176912676	T	A
UIMC1	5	176933527	AT	A
UIMC1	5	177000376	G	A
UIMC1	5	176932548	A	G
UIMC1	5	176950368	G	T
UIMC1	5	177000479	C	T
UIMC1	5	176915241	CT	C
ZNF346	5	177046154	A	G
ZNF346	5	177076562	A	G
ZNF346	5	177065556	G	A
ZNF346	5	177056686	A	G
HEIH	5	180830492	G	A
HEIH	5	180831087	G	A
HEIH	5	180831113	C	T
HEIH	5	180831114	T	A
HEIH	5	180831223	G	A
HEIH	5	180831246	C	G
HEIH	5	180831495	G	C
HEIH	5	180828963	A	C
HEIH	5	180829102	C	G
HEIH	5	180830591	T	C
SERPINB9P1	6	2876301	G	A
SERPINB9P1	6	2876343	T	G
SERPINB9P1	6	2876347	C	T
SERPINB9P1	6	2852865	C	T
SERPINB9P1	6	2855596	G	C
SERPINB9P1	6	2861238	C	T
SERPINB9P1	6	2861397	T	C
SERPINB9P1	6	2861444	T	G
SERPINB9P1	6	2861465	A	G
SERPINB9P1	6	2861558	C	A
SERPINB9P1	6	2851305	C	T
SERPINB9P1	6	2851464	G	A
SERPINB9P1	6	2851624	T	C
SERPINB9P1	6	2851722	A	G
SERPINB9P1	6	2851730	A	G
SERPINB9P1	6	2851760	A	C
SERPINB9P1	6	2851806	C	T
SERPINB9P1	6	2852032	G	A
SERPINB9P1	6	2857797	T	C
SERPINB9P1	6	2858247	C	T
SERPINB9P1	6	2859430	G	A
SERPINB9P1	6	2861234	C	T
SERPINB9P1	6	2861250	T	TTTC

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SERPINB9P1	6	2861681	C	T
SERPINB9P1	6	2861750	G	C
SERPINB9P1	6	2861819	A	C
SERPINB9P1	6	2862313	T	C
SERPINB9P1	6	2875846	CAAAT	C
SERPINB9P1	6	2852640	T	C
SERPINB9P1	6	2852712	G	A
SERPINB9P1	6	2852715	G	A
SERPINB9P1	6	2852773	A	T
SERPINB9P1	6	2852903	C	G
SERPINB9P1	6	2852931	C	T
SERPINB9P1	6	2852956	T	C
SERPINB9P1	6	2853232	C	T
SERPINB9P1	6	2859368	T	C
SERPINB9P1	6	2859452	A	G
SERPINB9P1	6	2864437	C	T
SERPINB9P1	6	2864541	C	G
SERPINB9P1	6	2868292	C	T
SERPINB9P1	6	2869287	A	G
SERPINB9P1	6	2870228	A	G
SERPINB9P1	6	2870255	A	G
SERPINB9P1	6	2872525	A	G
SERPINB9P1	6	2874020	TAAAAG	T
SERPINB9P1	6	2879207	C	G
SERPINB9P1	6	2880655	A	G
SERPINB9P1	6	2855958	C	T
SERPINB9P1	6	2856649	C	T
SERPINB9P1	6	2860548	G	A
SERPINB9P1	6	2860577	G	A
SERPINB9P1	6	2860595	A	G
SERPINB9P1	6	2861656	T	C
SERPINB9P1	6	2861660	A	G
SERPINB9P1	6	2861881	C	G
SERPINB9P1	6	2870851	T	C
SERPINB9P1	6	2876331	T	C
SERPINB9P1	6	2876440	G	A
SERPINB9P1	6	2851659	G	A
SERPINB9P1	6	2858371	T	G
SERPINB9P1	6	2861277	T	C
SERPINB9P1	6	2861278	C	T
SERPINB9P1	6	2861283	T	TC
SERPINB9P1	6	2873308	T	C
SERPINB9P1	6	2873604	G	C
CMAHP	6	25319871	G	A
CMAHP	6	25445074	C	T
CMAHP	6	25081259	C	T
CMAHP	6	25179963	G	A
CMAHP	6	25180312	C	G
CMAHP	6	25084490	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CMAHP	6	25097070	C	G
CMAHP	6	25106435	G	A
CMAHP	6	25106517	A	G
CMAHP	6	25108578	G	A
CMAHP	6	25108695	A	G
CMAHP	6	25106172	C	T
H2AC6	6	26124406	C	T
H2AC6	6	26138983	T	C
H2AC6	6	26138150	T	G
H2AC6	6	26124475	G	A
H2AC6	6	26124550	C	T
H2AC6	6	26138178	C	T
H2AC6	6	26124595	C	G
TNFRSF21	6	47232624	AAC	A
TNFRSF21	6	47309593	C	G
TNFRSF21	6	47309833	G	A
TNFRSF21	6	47232354	GAAGTT	G
TNFRSF21	6	47232407	G	C
SNX14	6	85568973	T	C
SNX14	6	85552194	A	G
SNX14	6	85562740	C	T
SNX14	6	85569100	T	C
SNX14	6	85569103	T	C
SNX3	6	108244690	G	A
SNX3	6	108246371	C	G
SNX3	6	108248736	G	A
SNX3	6	108252780	T	C
SNX3	6	108252803	T	C
SNX3	6	108252812	T	C
SNX3	6	108244778	T	C
SNX3	6	108211629	T	C
SNX3	6	108236679	T	C
SNX3	6	108244990	C	T
SNX3	6	108245637	C	T
SNX3	6	108246891	A	T
SNX3	6	108253936	T	C
SASH1	6	148346514	G	A
SASH1	6	148421373	A	G
SASH1	6	148436523	A	T
SASH1	6	148410946	A	G
SASH1	6	148429511	G	A
SASH1	6	148465507	T	C
SASH1	6	148346174	A	C
SASH1	6	148346693	G	A
SASH1	6	148346745	C	A
SASH1	6	148376893	G	A
SASH1	6	148377371	T	C
SASH1	6	148390546	A	G
SASH1	6	148391309	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SASH1	6	148411052	C	A
SASH1	6	148428374	A	G
SASH1	6	148428379	A	G
SASH1	6	148429414	A	C
SASH1	6	148435044	AG	A
SASH1	6	148435129	G	A
SASH1	6	148435257	A	G
SASH1	6	148435522	T	C
SASH1	6	148438761	A	C
SASH1	6	148438798	A	G
SASH1	6	148451613	C	T
SASH1	6	148459777	A	C
SASH1	6	148476688	C	A
SASH1	6	148480459	G	C
SASH1	6	148498226	C	A
SASH1	6	148498234	CA	C
SASH1	6	148548774	C	T
SASH1	6	148549065	GA	G
SASH1	6	148469797	G	A
UST	6	148759487	A	G
UST	6	148785055	C	T
AL159163.1	6	166929653	G	A
AL159163.1	6	166931095	A	G
AL159163.1	6	166952085	G	T
AL159163.1	6	166944013	A	G
AL159163.1	6	166933806	G	C
AL159163.1	6	166929711	C	T
ZNRF2	7	30324495	G	A
ZNRF2	7	30301700	TA	T
ZNRF2	7	30285247	C	T
ZNRF2	7	30366075	T	C
ZNRF2	7	30366855	A	G
ZNRF2	7	30367151	T	C
ZNRF2	7	30285616	G	A
ZNRF2	7	30286609	A	G
COA1	7	43657032	A	G
COA1	7	43657070	A	C
COA1	7	43708784	A	G
COA1	7	43651809	C	A
MRPS24	7	43869733	A	G
MRPS24	7	43866914	A	G
MRPS24	7	43867298	C	G
TMEM120A	7	75987460	A	T
TMEM120A	7	75987461	C	A
TMEM120A	7	75987499	CCACA	C
TMEM120A	7	75987259	G	A
DMTF1	7	87164046	G	C
DMTF1	7	87164178	C	T
DMTF1	7	87171035	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DMTF1	7	87184515	C	G
DMTF1	7	87195192	C	T
DMTF1	7	87196126	T	C
DMTF1	7	87196150	A	G
DMTF1	7	87190959	C	T
DMTF1	7	87195556	A	G
STAG3L5P-PVRIG2P PILRB	7	100355205	C	T
STAG3L5P-PVRIG2P PILRB	7	100355962	A	G
STAG3L5P-PVRIG2P PILRB	7	100355967	A	G
STAG3L5P-PVRIG2P PILRB	7	100356089	A	G
STAG3L5P-PVRIG2P PILRB	7	100357741	G	A
STAG3L5P-PVRIG2P PILRB	7	100358015	TA	T
STAG3L5P-PVRIG2P PILRB	7	100358243	G	A
STAG3L5P-PVRIG2P PILRB	7	100359505	GCCT	G
STAG3L5P-PVRIG2P PILRB	7	100367662	T	C
STAG3L5P-PVRIG2P PILRB	7	100367705	GA	G
STAG3L5P-PVRIG2P PILRB	7	100352383	C	T
STAG3L5P-PVRIG2P PILRB	7	100358941	G	A
KMT2E	7	105020225	G	A
KMT2E	7	105023255	A	G
KMT2E	7	105032323	A	G
KMT2E	7	105032341	A	G
KMT2E	7	105041202	T	A
KMT2E	7	105049295	T	C
KMT2E	7	105066913	C	T
KMT2E	7	105070542	G	A
KMT2E	7	105073468	T	C
KMT2E	7	105077070	C	T
KMT2E	7	105084658	G	A
KMT2E	7	105113600	CT	C
KMT2E	7	105022415	G	A
KMT2E	7	105038430	G	T
KMT2E	7	105049259	A	G
KMT2E	7	105029804	CAG	C
KMT2E	7	105101395	A	T
KMT2E	7	105103978	T	C
KMT2E	7	105104028	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KMT2E	7	105023446	AT	A
KMT2E	7	105029986	G	A
KMT2E	7	105049702	C	T
KMT2E	7	105049720	A	G
KMT2E	7	105049751	C	G
KMT2E	7	105051844	T	C
KMT2E	7	105096740	C	T
KMT2E	7	105103965	T	C
KMT2E	7	105015595	C	G
KMT2E	7	105023282	A	G
KMT2E	7	105032073	CAAA	C
KMT2E	7	105107452	G	T
AHCYL2	7	129410087	G	A
AHCYL2	7	129227411	A	G
AHCYL2	7	129227503	A	G
AHCYL2	7	129264493	G	A
AHCYL2	7	129242751	A	C
AHCYL2	7	129255216	G	A
AHCYL2	7	129227541	A	G
ABCB8	7	151041967	G	A
ABCB8	7	151045301	A	C
ABCB8	7	151035938	T	A
ABCB8	7	151035725	C	T
ABCB8	7	151045321	G	T
AC100849.1	8	19136373	C	T
AC100849.1	8	19202822	T	C
AC100849.1	8	19199021	G	T
AC100849.1	8	19201482	G	C
AC100849.1	8	19201729	T	C
AC100849.1	8	19201864	C	T
AC100849.1	8	19209874	A	G
AC100849.1	8	19221454	A	T
MTFR1	8	65730279	T	C
MTFR1	8	65730283	T	C
MTFR1	8	65746030	G	A
MTFR1	8	65730412	T	C
MTFR1	8	65736550	T	C
MTFR1	8	65736656	T	C
MTFR1	8	65740454	A	G
MTFR1	8	65751557	A	G
MTFR1	8	65761233	T	A
MTFR1	8	65730710	T	C
MTFR1	8	65730731	T	C
MTFR1	8	65730841	T	C
MTFR1	8	65736888	CT	C
MTFR1	8	65736950	T	C
MTFR1	8	65751541	A	G
MTFR1	8	65752874	A	T
MTFR1	8	65715515	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MTFR1	8	65710001	C	T
PDE7A	8	65775151	G	T
PDE7A	8	65776836	A	C
PDE7A	8	65817814	G	A
PDE7A	8	65779776	C	T
PDE7A	8	65817891	T	C
PDE7A	8	65830239	CT	C
PDE7A	8	65841953	G	A
PDE7A	8	65830047	T	G
PDE7A	8	65841839	G	C
AC022826.2	8	73873091	T	C
AC022826.2	8	73790898	C	T
AC022826.2	8	73873017	T	C
AC022826.2	8	73873625	T	C
AC022826.2	8	73856005	T	A
AC022826.2	8	73793651	C	T
AC022826.2	8	73803769	CTT	C
AC022826.2	8	73803789	C	T
AC022826.2	8	73803928	G	A
AC022826.2	8	73804058	G	A
AC022826.2	8	73856525	T	C
STK3	8	98639294	G	A
STK3	8	98669060	A	G
STK3	8	98523592	C	G
STK3	8	98638996	G	C
STK3	8	98774089	A	C
STK3	8	98762184	A	G
ZNF706	8	101197129	A	T
ZNF706	8	101204737	G	C
ZNF706	8	101205070	C	T
ZNF706	8	101201388	A	T
ZNF706	8	101201557	C	A
ZNF706	8	101205634	A	G
ZNF706	8	101205594	A	G
ZNF706	8	101192930	C	T
BAALC	8	103171231	CAGAA	C
BAALC	8	103171346	G	A
BAALC	8	103171424	GA	G
BAALC	8	103178849	T	C
BAALC	8	103170977	C	T
BAALC	8	103171195	A	G
BAALC	8	103176488	G	A
BAALC	8	103151782	C	T
BAALC	8	103170468	T	G
BAALC	8	103171708	C	C
BAALC	8	103178750	A	G
BAALC	8	103171283	A	G
BAALC	8	103171628	C	T
UHRF2	9	6425773	TA	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UHRF2	9	6441207	A	G
UHRF2	9	6470232	A	G
UHRF2	9	6462346	C	T
UHRF2	9	6496064	A	G
UHRF2	9	6506038	C	T
UHRF2	9	6462293	T	TA
APTX	9	33001069	A	C
APTX	9	32991216	G	A
APTX	9	32991217	T	C
APTX	9	32993822	A	G
APTX	9	32973044	C	G
APTX	9	32985395	T	C
VCP	9	35056964	C	A
VCP	9	35069611	C	A
VCP	9	35071094	T	C
VCP	9	35056211	T	C
VCP	9	35069402	G	A
VCP	9	35070729	C	T
GBA2	9	35741534	A	G
GBA2	9	35748809	G	T
GBA2	9	35740618	G	A
SECISBP2	9	89339933	C	G
SECISBP2	9	89359052	G	T
SECISBP2	9	89320342	T	C
SECISBP2	9	89350803	A	AA
CDK9	9	127789900	G	A
CDK9	9	127790636	A	G
CDK9	9	127788540	C	T
CDK9	9	127788638	G	A
CDK9	9	127790085	A	T
CDK9	9	127789900	G	C
INPP5E	9	136428749	A	G
INPP5E	9	136428859	T	C
INPP5E	9	136428972	T	C
INPP5E	9	136429347	A	G
INPP5E	9	136430288	C	T
INPP5E	9	136432582	A	G
MT-ND5	MT	12501	G	A
MT-ND5	MT	12705	C	T
MT-ND5	MT	13780	A	G
MT-ND5	MT	12372	G	A
MT-ND5	MT	12406	G	A
MT-ND5	MT	12557	C	T
MT-ND5	MT	13020	T	C
MT-ND5	MT	13104	A	C
MT-ND5	MT	13734	T	C
MT-ND5	MT	12612	A	G
MT-ND5	MT	13681	A	G
MT-ND5	MT	13708	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MT-ND5	MT	13934	C	T
MT-ND5	MT	12693	A	G
MT-ND5	MT	13590	G	A
MT-ND5	MT	13650	C	T
MT-ND5	MT	13803	A	G
MT-ND5	MT	13879	T	C
MT-ND5	MT	13617	T	C
MT-ND5	MT	13637	A	G
LINC00106	X	1398220	A	G
LINC00106	X	1397089	A	G
LINC00106	X	1397090	A	G
LINC00106	X	1398394	A	G
LINC00106	X	1398514	T	C
LINC00106	X	1399369	C	T
LINC00106	X	1397221	A	C
LINC00106	X	1398276	A	G
LINC00106	X	1398340	T	C
ZRSR2	X	15820243	C	T
ZRSR2	X	15801592	C	T
ZRSR2	X	15804252	C	A
ZRSR2	X	15804254	T	G
ZRSR2	X	15790672	T	C
TXLNG	X	16829642	A	G
TXLNG	X	16840653	T	C
TXLNG	X	16841505	G	A
TXLNG	X	16842011	T	C
TXLNG	X	16842790	A	G
TXLNC	X	16843370	T	C
TXLNG	X	16843467	C	A
TXLNG	X	16843978	G	A
TXLNG	X	16843916	A	G
TXLNG	X	16824762	TA	T
TXLNG	X	16844392	T	C
SH3KBP1	X	19551520	A	T
SH3KBP1	X	19659011	G	A
SH3KBP1	X	19742304	T	C
SH3KBP1	X	19769274	CT	C
SH3KBP1	X	19827654	A	C
SH3KBP1	X	19675599	T	C
SH3KBP1	X	19662662	T	G
SH3KBP1	X	19675527	T	C
SH3KBP1	X	19681074	T	C
SH3KBP1	X	19742331	A	G
SH3KBP1	X	19827963	A	G
SH3KBP1	X	19590728	T	C
SH3KBP1	X	19675556	T	C
SH3KBP1	X	19835717	T	C
SH3KBP1	X	19621097	C	T
SH3KBP1	X	19621241	AT	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SH3KBP1	X	19827890	AAAAC	A
SH3KBP1	X	19878439	G	C
SH3KBP1	X	19549446	T	C
SH3KBP1	X	19764901	C	T
EIF1AX	X	20125252	G	T
EIF1AX	X	20125916	C	T
EIF1AX	X	20125956	CT	C
EIF1AX	X	20126287	G	A
EIF1AX	X	20127850	C	A
EIF1AX	X	20138142	T	C
WDR13	X	48601043	C	G
WDR13	X	48601115	A	G
WDR13	X	48601122	T	A
WDR13	X	48601473	G	A
WDR13	X	48604563	C	G
WDR13	X	48597835	G	T
WDR13	X	48601363	G	T
WDR13	X	48601574	G	A
KDM5C	X	53203852	G	C
KDM5C	X	53208416	CATAT	C
KDM5C	X	53208596	C	G
KDM5C	X	53212261	T	C
KDM5C	X	53191654	G	T
KDM5C	X	53198161	A	G
KDM5C	X	53198966	C	A
KDM5C	X	53205637	C	T
YIPF6	X	68532734	T	C
YIPF6	X	68510833	A	C
YIPF6	X	68535004	T	C
YIPF6	X	68535452	T	A
TSIX	X	73822481	T	C
TSIX	X	73822772	C	T
TSIX	X	73823982	T	C
TSIX	X	73825905	A	C
TAF9B	X	78130251	C	T
TAF9B	X	78134938	C	G
TAF9B	X	78132103	C	T
TAF9B	X	78135525	G	T
UPF3B	X	119851635	C	T
UPF3B	X	119844137	G	A
UPF3B	X	119834439	T	C
UPF3B	X	119831602	C	T
RNF19B	1	32952184	A	G
RNF19B	1	32953199	T	C
RNF19B	1	32953383	C	A
RNF19B	1	32953605	C	T
RNF19B	1	32954155	T	G
RNF19B	1	32953982	T	C
RNF19B	1	32955730	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RNF19B	1	32955860	T	C
RNF19B	1	32964501	T	G
RNF19B	1	32952650	G	A
AGO3	1	35930873	G	A
AGO3	1	35979243	A	G
AGO3	1	35982667	A	AA
AGO3	1	36049433	A	G
AGO3	1	35965654	C	T
AGO3	1	35982545	TTC	T
AGO3	1	35996077	A	G
AGO3	1	35996081	A	G
AGO3	1	35996606	A	G
AGO3	1	35996611	A	G
AGO3	1	35996612	A	G
AGO3	1	35995790	A	G
AGO3	1	35996234	A	G
AGO3	1	35996235	A	G
AGO3	1	35978392	A	G
AGO3	1	35958737	T	C
AGO3	1	35976012	A	G
AGO3	1	35978859	T	C
AGO3	1	35979289	A	G
AGO3	1	35979356	C	T
AGO3	1	35979474	GAT	G
AGO3	1	35983703	C	T
AGO3	1	35986557	T	G
AGO3	1	35979253	A	G
BTBD19	1	44810948	A	G
BTBD19	1	44811472	C	T
BTBD19	1	44811349	G	T
BTBD19	1	44812622	G	A
BTBD19	1	44814044	C	C
BTBD19	1	44814141	T	C
BTBD19	1	44809169	T	C
BTBD19	1	44810755	G	A
BTBD19	1	44812422	T	C
BTBD19	1	44812817	G	A
BTBD19	1	44812818	T	G
BTBD19	1	44814164	T	G
BTBD19	1	44815573	CTTTA	C
BTRD19	1	44810758	T	C
BTBD19	1	44814077	ACTAGT	A
BTBD19	1	44814255	T	C
BTBD19	1	44814328	C	G
LRRC41	1	46291621	A	G
LRRC41	1	46302736	T	C
LRRC41	1	46280492	C	T
PLPP3	1	56567438	C	T
PLPP3	1	56532951	C	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PLPP3	1	56533202	A	G
PLPP3	1	56559423	AT	A
PLPP3	1	56571886	T	C
PLPP3	1	56530432	C	G
PLPP3	1	56530675	A	G
PLPP3	1	56560091	C	T
RPL5	1	92838715	C	T
RPL5	1	92840760	G	A
RPL5	1	92832943	T	A
RPL5	1	92832057	G	T
VAV3-AS1	1	107967634	A	G
VAV3-AS1	1	107967282	A	G
VAV3-AS1	1	107967397	C	A
VAV3-AS1	1	107967430	G	A
VAV3-AS1	1	107967113	A	G
VAV3-AS1	1	107967190	T	C
VAV3-AS1	1	107967491	A	C
VAV3-AS1	1	107967535	C	A
VAV3-AS1	1	107967542	A	G
LAMC2	1	183232835	G	C
LAMC2	1	183218468	C	T
LAMC2	1	183243805	C	T
LAMC2	1	183215481	C	T
LAMC2	1	183223169	T	G
LAMC2	1	183244275	G	T
MIR205HG	1	209429036	G	A
MIR205HG	1	209431757	A	G
MIR205HG	1	209432291	TAGCAGCAGCAGC (SEQ ID No: 56)	T
ARF1	1	228086317	C	T
ARF1	1	228095397	G	A
ARF1	1	228096175	T	C
ARF1	1	228083452	T	A
ARF1	1	228083263	G	C
ARF1	1	228095176	A	C
ARF1	1	228085666	A	G
ARF1	1	228085933	T	C
NID1	1	235976517	C	T
NID1	1	235994701	T	C
NID1	1	235976594	T	G
NID1	1	236011301	T	C
NID1	1	236001179	T	C
NID1	1	236012039	T	C
NID1	1	236027870	A	G
NID1	1	236061539	T	C
COL17A1	10	104057158	C	T
COL17A1	10	104064575	G	A
COL17A1	10	104050642	T	C
AC124798.1	11	17380928	A	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC124798.1	11	17381616	A	T
SF3B2	11	66054502	G	C
SF3B2	11	66054545	T	C
SF3B2	11	66059233	G	A
SF3B2	11	66056613	C	T
SF3B2	11	66056098	G	C
SF3B2	11	66058480	T	A
SF3B2	11	66061755	T	C
RBM14-RBM4	11	66625409	C	T
RBM14-RBM4	11	66626916	C	T
RBM14-RBM4	11	66635066	G	A
RBM14-RBM4	11	66635105	A	G
RBM14-RBM4	11	66635425	A	C
RBM14-RBM4	11	66622215	T	C
RBM14-RBM4	11	66625777	GTCTTC	G
RBM14-RBM4	11	66632210	G	A
RBM14-RBM4	11	66632981	C	T
RBM14-RBM4	11	66634862	C	T
RBM14-RBM4	11	66635027	A	G
RBM14-RBM4	11	66635261	A	G
RBM14-RBM4	11	66635353	A	G
RBM14-RBM4	11	66635360	A	G
RBM14-RBM4	11	66635424	A	G
RBM14-RBM4	11	66635772	A	G
RBM14-RBM4	11	66635774	A	G
RBM14-RBM4	11	66636127	A	G
RBM14-RBM4	11	66636149	A	G
RBM14-RBM4	11	66638599	A	C
RBM14-RBM4	11	66635650	A	G
RBM14-RBM4	11	66616672	C	A
RBM14-RBM4	11	66640330	C	G
RBM14-RBM4	11	66640562	C	G
RBM14-RBM4	11	66640600	G	C
BICD1	12	32374192	C	T
BICD1	12	32108305	A	G
BICD1	12	32108318	A	C
BICD1	12	32108501	A	G
KRT6A	12	52490951	A	G
KRT6A	12	52492706	A	G
KRT6A	12	52493127	T	C
KRT6A	12	52487579	G	A
KRT6A	12	52487592	C	T
KRT6A	12	52487596	A	C
KRT6A	12	52487644	A	C
SDS	12	113392852	C	T
SDS	12	113392864	C	T
SDS	12	113396733	T	C
SDS	12	113396734	T	C
SDS	12	113398910	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KDM2B	12	121460596	C	T
KDM2B	12	121486363	G	T
KDM2B	12	121432263	C	T
KDM2B	12	121486407	T	C
KDM2B	12	121494061	T	C
KDM2B	12	121494121	A	G
KDM2B	12	121440856	C	T
KDM2B	12	121444045	G	A
KDM2B	12	121433203	A	C
KDM2B	12	121442717	G	A
KDM2B	12	121431953	G	A
KDM2B	12	121440904	C	A
KDM2B	12	121443420	A	G
KDM2B	12	121487665	A	G
KDM2B	12	121557276	T	C
TSC22D1	13	44570208	A	G
TSC22D1	13	44433561	G	C
TSC22D1	13	44436147	T	G
TSC22D1	13	44479270	G	A
TSC22D1	13	44434197	G	C
TSC22D1	13	44436668	G	C
TSC22D1	13	44436731	C	T
TSC22D1	13	44538524	G	T
SCFD1	14	30627745	GA	G
SCFD1	14	30630532	A	G
SCFD1	14	30631794	C	T
SCFD1	14	30648836	T	C
SCFD1	14	30649062	T	C
SCFD1	14	30672029	G	A
SCFD1	14	30664788	A	G
SCFD1	14	30694827	A	G
SCFD1	14	30714217	A	G
SCFD1	14	30714356	G	A
SCFD1	14	30656539	T	C
SCFD1	14	30654694	A	G
SCFD1	14	30666696	C	A
SCFD1	14	30627586	G	A
SCFD1	14	30710166	A	G
SCFD1	14	30713783	C	G
AL133163.2	14	35362288	C	T
AT133163.2	14	35362605	T	C
AL133163.2	14	35362630	G	T
AC005280.2	14	73464371	A	G
AC005280.2	14	73465546	CA	C
AC005280.2	14	73464052	C	CA
AC005280.2	14	73463926	T	C
AC005280.2	14	73465689	G	A
AC005280.2	14	73463982	A	T
HOMER2	15	82842397	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HOMER2	15	82842432	T	C
HOMER2	15	82842586	T	C
HOMER2	15	82842587	T	C
HOMER2	15	82919951	G	A
LRRK1	15	100971408	T	C
LRRK1	15	101070706	A	T
LRRK1	15	100934954	A	G
LRRK1	15	100935010	A	G
LRRK1	15	101029262	T	C
LRRK1	15	101066684	G	A
LRRK1	15	101066685	C	A
LRRK1	15	101071330	CTAAG	C
LRRK1	15	101069532	G	A
PPP4C	16	30082064	AAAAG	A
PPP4C	16	30082065	AAAG	A
PPP4C	16	30082458	C	G
PPP4C	16	30083915	C	T
PPP4C	16	30082859	C	T
PPP4C	16	30084413	G	A
PPP4C	16	30082288	A	G
DERPC	16	69119766	G	A
DERPC	16	69122442	G	A
DERPC	16	69127561	A	C
DERPC	16	69122560	G	A
DERPC	16	69127860	T	C
SENP3	17	7569566	G	A
SENP3	17	7571674	G	A
SENP3	17	7565511	G	A
SENP3	17	7569415	C	T
SENP3	17	7566010	T	C
SENP3	17	7566274	G	A
SENP3	17	7566290	C	A
KSR1	17	27579975	A	G
KSR1	17	27580026	G	C
KSR1	17	27582824	G	T
KSR1	17	27624618	C	G
KSR1	17	27624903	G	A
KSR1	17	27625056	C	T
KSR1	17	27625263	G	A
KSR1	17	27626177	C	T
KSR1	17	27523483	G	A
KSR1	17	27465030	C	T
KSR1	17	27498270	G	A
KSR1	17	27625777	G	A
AC005829.2	17	46259843	C	T
AC005829.2	17	46259984	T	C
AC005829.2	17	46260000	G	A
AC005829.2	17	46260311	G	A
AC005829.2	17	46260398	T	TA

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC091271.1	17	59618890	G	A
AC091271.1	17	59619412	G	A
AC091271.1	17	59619466	A	G
AC064805.1	17	74599913	A	G
AC064805.1	17	74606616	C	T
AC064805.1	17	74606478	C	T
AC064805.1	17	74603865	A	C
AC064805.1	17	74603902	G	T
AC064805.1	17	74604026	G	A
AC064805.1	17	74606101	G	A
AC064805.1	17	74606454	G	A
AC064805.1	17	74606560	G	A
AC064805.1	17	74606789	C	A
AC064805.1	17	74606911	C	A
ITGB4	17	75728420	T	C
ITGB4	17	75757422	T	C
ITGB4	17	75757580	C	T
AC061992.2	17	78361793	G	A
AC061992.2	17	78361811	T	C
AC061992.2	17	78361896	G	A
AC061992.2	17	78362397	TA	T
P4HB	17	81843412	C	A
P4HB	17	81845225	A	G
P4HB	17	81845557	G	A
P4HB	17	81847258	G	A
P4HB	17	81855898	C	A
P4HB	17	81856717	C	T
P4HB	17	81859774	A	G
P4HB	17	81860384	G	T
P4HB	17	81860484	T	G
P4HB	17	81856860	G	C
P4HB	17	81856650	T	C
TSPAN16	19	11322274	A	G
TSPAN16	19	11322493	C	T
TSPAN16	19	11322813	G	C
TSPAN16	19	11322967	A	C
TSPAN16	19	11323080	G	C
TSPAN16	19	11323829	A	G
TSPAN16	19	11322345	AAAG	A
CLEC17A	19	14611857	A	G
CLEC17A	19	14611884	A	G
CLEC17A	19	14611905	A	G
CLEC17A	19	14611883	A	G
CLEC17A	19	14610207	C	T
BCL3	19	44747899	A	C
BCL3	19	44759591	C	A
BCL3	19	44748248	G	A
BCL3	19	44750325	G	A
BCL3	19	44750368	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
BCL3	19	44750745	T	C
BCL3	19	44755147	G	T
BCL3	19	44756217	C	T
BCL3	19	44756957	G	A
BCL3	19	44759707	GCCC	G
PTGIR	19	46622980	AT	A
PTGIR	19	46620526	A	G
PTGIR	19	46622987	T	A
PTGIR	19	46623095	G	C
PTGIR	19	46621457	T	G
PTGIR	19	46623357	C	G
PTGIR	19	46624067	C	G
PTGIR	19	46624373	G	A
SELENOW	19	47784683	T	C
SELENOW	19	47778915	T	C
SELENOW	19	47779059	G	A
SELENOW	19	47779238	C	T
FLJ31356	2	28391534	T	C
FLJ31356	2	28391927	C	T
FLJ31356	2	28392149	G	C
FLJ31356	2	28391437	G	A
PUS10	2	60943038	A	G
PUS10	2	60947624	T	C
PUS10	2	60940626	A	G
PUS10	2	60940865	G	T
PUS10	2	60942140	AT	A
PUS10	2	60943471	TA	T
PUS10	2	60943036	GA	G
PUS10	2	60943492	C	T
PUS10	2	60948177	T	C
DYSF	2	71649186	C	A
DYSF	2	71653875	TATAAAC	T
DYSF	2	71553085	T	C
DYSF	2	71612791	C	T
DYSF	2	71679148	A	C
DYSF	2	71686558	C	T
DYSF	2	71611313	C	T
RGPD2	2	87769150	T	C
RGPD2	2	87770744	T	C
RGPD2	2	87770751	T	C
RGPD2	2	87781448	T	G
RGPD2	2	87781456	G	T
RGPD2	2	87771519	T	C
RGPD2	2	87769239	T	C
RGPD2	2	87771621	T	C
RGPD2	2	87784330	T	C
RGPD2	2	87825231	T	C
RGPD2	2	87825253	C	A
RGPD2	2	87825297	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC007679.1	2	205994874	CA	C
AC007679.1	2	205997291	G	A
AC007679.1	2	205999150	C	T
AC007679.1	2	206000040	C	T
AC007679.1	2	205996584	TAC	T
TTLL4	2	218748526	G	A
TTLL4	2	218730437	G	A
TTLL4	2	218730463	A	G
TTLL4	2	218745710	A	G
TTLL4	2	218754827	C	T
TTLL4	2	218749384	C	T
TTLL4	2	218750057	T	C
ILKAP	2	238175961	A	G
ILKAP	2	238178910	G	A
ILKAP	2	238199944	G	A
ILKAP	2	238178451	T	A
ILKAP	2	238184640	G	A
ILKAP	2	238191262	T	C
ILKAP	2	238170569	G	A
ILKAP	2	238177812	T	C
CENPB	20	3784165	G	A
CENPB	20	3785008	G	C
CENPB	20	3785871	G	T
CENPB	20	3784114	G	A
AP000692.2	21	36320291	A	T
AP000692.2	21	36320465	A	G
ERG	21	38476982	G	T
ERG	21	38477038	A	G
ERG	21	38477043	C	A
PCBP3	21	45655768	C	A
PCBP3	21	45752878	G	A
PCBP3	21	45643786	C	T
PCBP3	21	45873607	C	A
IGLV3-21	22	22712919	C	T
IGLV3-21	22	22712936	G	A
IGLV3-21	22	22712955	C	A
IGLV3-21	22	22712983	A	T
IGLV3-21	22	22713052	A	C
IGLV3-21	22	22713061	G	C
IGF2BP2	3	185706814	T	C
IGF2BP2	3	185788807	T	C
IGF2BP2	3	185788950	T	C
IGF2BP2	3	185789069	T	G
IGF2BP2	3	185793931	A	G
IGF2BP2	3	185798814	C	C
IGF2BP2	3	185799019	T	G
IGF2BP2	3	185707143	T	C
IGF2BP2	3	185772749	T	C
IGF2BP2	3	185798892	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IGF2BP2	3	185798893	T	C
IGF2BP2	3	185798999	T	C
IGF2BP2	3	185675009	CTT	C
IGF2BP2	3	185788613	A	C
IGF2BP2	3	185798732	G	A
IGF2BP2	3	185809107	T	C
STX18	4	4448974	C	T
STX18	4	4419892	G	A
STX18	4	4434790	A	T
STX18	4	4438456	T	G
STX18	4	4517605	T	C
AC008771.1	5	80485960	C	T
AC008771.1	5	80486281	G	C
AC008771.1	5	80485868	T	C
SETDB1	1	150964598	G	A
SETDB1	1	150956249	G	A
SETDB1	1	150960874	G	A
SETDB1	1	150964427	T	C
SNX27	1	151636546	T	C
SNX27	1	151636666	TA	T
SNX27	1	151697521	C	A
UBE2D2	5	139590249	A	G
UBE2D2	5	139605547	A	G
UBE2D2	5	139589924	A	G
UBE2D2	5	139590315	A	G
UBE2D2	5	139590417	A	G
UBE2D2	5	139605591	CA	C
UBE2D2	5	139607825	A	G
UBE2D2	5	139566931	G	A
UBE2D2	5	139568780	A	G
UBE2D2	5	139568872	A	G
UBE2D2	5	139571394	A	G
UBE2D2	5	139579836	A	G
UBE2D2	5	139585791	A	G
UBE2D2	5	139589479	A	G
UBE2D2	5	139590285	A	G
UBE2D2	5	139590314	A	G
UBE2D2	5	139603484	G	A
UBE2D2	5	139613830	T	C
HLA-V	6	29793127	G	T
HLA-V	6	29793129	G	T
HLA-V	6	29793128	G	T
NEU1	6	31859509	A	T
NEU1	6	31858044	T	C
GLUD1	10	87061032	T	C
GLUD1	10	87068293	C	T
GLUD1	10	87068411	A	G
GLUD1	10	87069031	C	T
GLUD1	10	87069444	G	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GLUD1	10	87073757	T	C
GLUD1	10	87061945	T	C
GLUD1	10	87071380	T	C
GLUD1	10	87071383	T	C
GLUD1	10	87073673	T	C
GLUD1	10	87073681	T	C
MICALL2	7	1434706	A	T
MICALL2	7	1434778	A	G
MICALL2	7	1434985	GC	G
MICALL2	7	1438859	A	G
MICALL2	7	1442283	C	A
MICALL2	7	1442465	C	G
MICALL2	7	1444936	A	G
MICALL2	7	1444951	C	T
MICALL2	7	1449593	C	T
MICALL2	7	1449745	G	A
MICALL2	7	1444673	G	A
MICALL2	7	1442347	G	A
PMS2	7	5973069	C	G
PMS2	7	5973418	C	G
PMS2	7	5973522	A	G
NCF1B	7	73226001	T	C
NCF1B	7	73231893	A	C
NCF1B	7	73225951	G	A
NCF1B	7	73232729	A	G
NCF1B	7	73225925	A	G
NCF1B	7	73234662	A	G
NCF1B	7	73235855	C	G
LGALS12	11	63516563	A	G
LGALS12	11	63516582	G	C
BIRC2	11	102377646	C	T
BIRC2	11	102351353	A	G
BIRC2	11	102352470	A	G
BIRC2	11	102349209	T	G
BIRC2	11	102351657	G	A
BIRC2	11	102359524	G	A
BIRC2	11	102359616	T	C
BIRC2	11	102349132	T	G
BIRC2	11	102349209	TC	T
BIRC2	11	102349548	T	C
BIRC2	11	102351364	C	T
BIRC2	11	102360995	G	A
BIRC2	11	102361191	T	C
BIRC2	11	102378420	T	TGG
FASTK	7	151076720	A	T
FASTK	7	151078091	A	G
FASTK	7	151080422	G	A
LPL	8	19966137	A	T
LPL	8	19966163	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LPL	8	19966534	C	A
LPL	8	19967052	T	C
LPL	8	19966560	A	G
LPL	8	19960531	G	A
LPL	8	19966106	A	G
LPL	8	19966981	T	C
LPL	8	19967093	A	T
LPL	8	19967156	C	T
LPL	8	19967158	C	A
AC022182.1	8	60910376	C	G
AC022182.1	8	60910114	C	T
AC022182.1	8	60965064	G	A
AC022182.1	8	60965852	C	T
AC022182.1	8	60966362	T	A
AC009879.4	8	66429703	G	T
AC009879.4	8	66430093	G	A
AC009879.4	8	66429508	A	G
AC009879.4	8	66429930	A	T
AC009879.4	8	66429143	G	A
SMARCD1	12	50097784	A	G
SMARCD1	12	50097847	C	T
SMARCD1	12	50098038	A	G
AL162253.2	9	5629133	G	A
AL162253.2	9	5604895	T	A
MGAT4C	12	86212851	A	C
MGAT4C	12	86212771	A	C
MGAT4C	12	86766983	T	C
MGAT4C	12	86766990	G	C
DDX51	12	132139129	C	T
DDX51	12	132139889	T	C
DDX51	12	132136830	A	G
DDX51	12	132137079	G	A
DDX51	12	132137209	G	A
DDX51	12	132138474	G	A
DDX51	12	132138641	C	T
DDX51	12	132138680	C	T
DDX51	12	132138844	G	C
DDX51	12	132138928	T	C
DDX51	12	132141880	G	A
DDX51	12	132138482	GT	G
DDX51	12	132140124	G	A
DDX51	12	132139198	C	T
DDX51	12	132143736	C	T
DDX51	12	132143740	G	A
EXD3	9	137367974	C	T
EXD3	9	137392024	G	A
EXD3	9	137392026	G	A
EXD3	9	137383374	C	T
EXD3	9	137392800	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EXD3	9	137385710	T	A
EXD3	9	137385749	G	T
EXD3	9	137392942	G	A
AL590627.2	9	137616134	T	C
AL590627.2	9	137616187	A	G
AL590627.2	9	137621455	A	G
AL590627.2	9	137623092	A	G
AL590627.2	9	137621459	A	G
AL590627.2	9	137621477	A	G
AL590627.2	9	137631020	T	C
AL590627.2	9	137616426	GC	G
AL590627.2	9	137618142	T	C
AL590627.2	9	137621523	C	T
LINC01283	X	39405539	CT	C
LINC01283	X	39433689	T	C
LINC01283	X	39405714	G	C
ATP6AP2	X	40602529	A	G
ATP6AP2	X	40603355	CA	C
ATP6AP2	X	40579457	A	C
ATP6AP2	X	40600788	T	C
ATP6AP2	X	40606021	A	T
ATP6AP2	X	40606516	A	G
ATP6AP2	X	40606564	T	C
ATP6AP2	X	40606113	A	G
DZIP1	13	95619459	C	T
DZIP1	13	95619510	C	A
DZIP1	13	95619628	G	A
DZIP1	13	95619578	T	C
NHSL2	X	72128987	G	A
NHSL2	X	72129903	G	A
NHSL2	X	72129924	T	C
NHSL2	X	72152891	C	A
NHSL2	X	72129293	A	C
NHSL2	X	72153176	TA	T
MAGOH3P	14	68862130	G	A
MAGOH3P	14	68862209	A	C
VASH1-AS1	14	76786167	C	T
VASH1-AS1	14	76786434	T	C
AL110118.1	14	93211621	G	C
AL110118.1	14	93218275	G	T
AL110118.1	14	93208738	G	A
AL110118.1	14	93189313	G	A
AL110118.1	14	93190238	G	A
AL110118.1	14	93189762	A	G
AL110118.1	14	93207310	C	A
EMC7	15	34098657	T	C
EMC7	15	34098397	C	G
EMC7	15	34096890	G	A
EMC7	15	34096954	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EMC7	15	34101726	C	T
ZNF609	15	64551613	C	T
ZNF609	15	64463381	A	G
ZNF609	15	64484415	C	T
ZNF609	15	64484754	T	C
ZNF609	15	64488918	G	A
ZNF609	15	64513956	T	G
ZNF609	15	64514149	G	A
ZNF609	15	64515938	CA	C
ZNF609	15	64536961	A	G
ZNF609	15	64537035	C	T
ZNF609	15	64537631	T	C
ZNF609	15	64541280	G	A
ZNF609	15	64541688	C	A
ZNF609	15	64583400	C	T
ZNF609	15	64585115	A	G
ZNF609	15	64588345	A	G
ZNF609	15	64592187	T	C
ZNF609	15	64592755	TAA	T
ZNF609	15	64595305	A	G
ZNF609	15	64600038	C	T
ZNF609	15	64644587	G	C
ZNF609	15	64648004	T	C
ZNF609	15	64648692	G	A
ZNF609	15	64655268	A	G
AC141586.1	16	2628078	A	G
AC141586.1	16	2628866	G	T
AC141586.1	16	2629082	C	T
AC141586.1	16	2606105	G	A
LRRC37A3	17	64900036	CT	C
LRRC37A3	17	64913318	T	G
LRRC37A3	17	64913330	A	G
LRRC37A3	17	64889220	A	G
LRRC37A3	17	64910824	T	C
LRRC37A3	17	64861880	C	T
LRRC37A3	17	64910705	T	C
LRRC37A3	17	64913361	A	G
LRRC37A3	17	64910869	T	C
LRRC37A3	17	64899977	T	C
TRIP10	19	6742853	G	A
TRIP10	19	6751268	A	G
TRIP10	19	6751270	C	T
TRIP10	19	6751282	T	G
TRIP10	19	6742247	A	G
TRIP10	19	6742779	CAA	C
TRIP10	19	6745094	T	C
TRIP10	19	6745127	G	A
CRTC1	19	18685367	T	A
CRTC1	19	18690905	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CRTC1	19	18694012	A	G
CRTC1	19	18694208	A	G
CRTC1	19	18727013	G	A
CRTC1	19	18727839	A	G
CRTC1	19	18727851	A	G
CRTC1	19	18734590	G	T
CRTC1	19	18691401	A	G
CRTC1	19	18691411	A	G
CRTC1	19	18765499	A	G
CRTC1	19	18691003	A	G
CRTC1	19	18693187	G	A
SIRT2	19	38878729	T	G
SIRT2	19	38881604	C	G
SIRT2	19	38894658	C	T
SIRT2	19	38894659	C	G
SIRT2	19	38894892	T	C
SIRT2	19	38897076	G	A
SIRT2	19	38881076	C	T
SIRT2	19	38878685	G	A
LIMS3	2	109924065	A	G
LIMS3	2	109924028	T	C
LIMS3	2	109918217	A	G
LIMS3	2	109915872	G	A
SLX4IP	20	10510988	C	T
SLX4IP	20	10586688	C	T
SLX4IP	20	10474520	A	G
SLX4IP	20	10487668	G	T
SLX4IP	20	10490971	G	C
SLX4IP	20	10487614	A	G
AL162458.1	20	45929642	CT	C
AL162458.1	20	45930440	CT	C
AL162458.1	20	45934368	C	T
AL162458.1	20	45934261	G	A
TIAM1	21	31181532	G	A
TIAM1	21	31181741	C	G
TIAM1	21	31264912	C	T
TIAM1	21	31120174	T	C
TIAM1	21	31212651	T	C
TIAM1	21	31259126	C	T
TIAM1	21	31152126	A	G
TIAM1	21	31188996	T	G
TIAM1	21	31292287	G	C
TIAM1	21	31120713	A	G
TIAM1	21	31182077	G	A
TIAM1	21	31196270	T	C
TIAM1	21	31196375	G	A
TIAM1	21	31197359	A	G
TIAM1	21	31259139	C	T
TIAM1	21	31330461	C	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TIAM1	21	31330477	A	T
TIAM1	21	31118824	G	A
TIAM1	21	31119107	TA	T
TIAM1	21	31197241	A	G
TIAM1	21	31218946	A	G
TIAM1	21	31222866	T	C
TIAM1	21	31219228	AC	A
TIAM1	21	31265280	C	T
XBP1	22	28797650	G	C
XBP1	22	28798611	CT	C
XBP1	22	28800546	C	A
XBP1	22	28800506	C	T
XBP1	22	28794664	AATTTC	A
XBP1	22	28798804	A	G
XBP1	22	28798805	G	T
XBP1	22	28798809	C	G
XBP1	22	28798401	T	C
XBP1	22	28798405	T	C
XBP1	22	28800538	G	A
PPM1L	3	160783600	CA	C
PPM1L	3	160854879	CAA	C
PPM1L	3	160872739	A	G
PPM1L	3	160872741	A	G
PPM1L	3	160872743	A	G
PPM1L	3	160872780	A	G
PPM1L	3	160873647	A	G
PPM1L	3	160906629	A	C
PPM1L	3	160991079	TA	T
PPM1L	3	160991154	C	T
PPM1L	3	160991155	A	G
PPM1L	3	160873747	A	G
PPM1L	3	160806929	CGAAA	G
PPM1L	3	160822822	A	G
PPM1L	3	160872905	C	T
PPM1L	3	160873635	T	C
PPM1L	3	160873662	C	T
PPM1L	3	160892650	C	T
PPM1L	3	161020019	A	G
PPM1L	3	161020076	A	G
PPM1L	3	160872749	A	G
PPM1L	3	160872890	A	G
PPM1L	3	160887264	A	G
PPM1L	3	160980493	A	C
PPM1L	3	160991018	A	G
PPM1L	3	160761804	T	C
PPM1L	3	160883539	A	G
PPM1L	3	160991223	T	A
PPM1L	3	160980761	A	T
PPM1L	3	160980526	G	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IDUA	4	1000626	C	A
IDUA	4	1002772	C	G
IDUA	4	1002902	G	A
IDUA	4	1003100	C	T
IDUA	4	1002080	C	T
IDUA	4	1003307	T	C
IDUA	4	1000045	G	A
IDUA	4	1000664	C	T
IDUA	4	1001319	C	G
IDUA	4	1001517	T	C
IDUA	4	1002131	G	C
IDUA	4	1002377	G	A
CXXC5	5	139683212	C	T
CXXC5	5	139679738	T	C
CXXC5	5	139683053	T	C
CXXC5	5	139649415	G	A
CXXC5	5	139680901	G	A
MRNIP	5	179840949	T	C
MRNIP	5	179838261	G	A
MRNIP	5	179840395	G	A
MRNIP	5	179840783	G	A
MRNIP	5	179841779	C	T
MRNIP	5	179842556	C	T
MRNIP	5	179842579	A	G
MRNIP	5	179843167	T	C
MRNIP	5	179843614	G	C
MRNIP	5	179853379	T	C
MRNIP	5	179839242	A	G
H4C11	6	27824443	C	T
H4C11	6	27824450	T	C
IBTK	6	82246502	C	T
IBTK	6	82171116	T	C
IBTK	6	82173000	CT	C
IBTK	6	82177567	C	T
IBTK	6	82191094	G	A
IBTK	6	82193763	C	T
ARHGAP18	6	129610788	T	C
ARHGAP18	6	129686978	CTTTTTTTT	C
ARHGAP18	6	129698795	T	G
ARHGAP18	6	129649882	G	A
ARHGAP18	6	129649990	A	G
ARHGAP18	6	129670688	CT	C
ARHGAP18	6	129686883	T	C
ARHGAP18	6	129687069	A	C
ARHGAP18	6	129707594	T	C
ARHGAP18	6	129683075	T	G
ARHGAP18	6	129683232	C	T
ARHGAP18	6	129698549	T	G
ARHGAP18	6	129707557	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARHGAP18	6	129707619	A	G
ARHGAP18	6	129698605	A	T
ARHGAP18	6	129686788	CTTTTTTTTTT (SEQ ID No: 57)	C
ARHGAP18	6	129687300	A	C
Z94721.1	6	166982374	A	G
Z94721.1	6	166983141	A	G
Z94721.1	6	166997039	C	T
Z94721.1	6	166982379	CTT	C
Z94721.1	6	166995599	C	T
Z94721.1	6	166981887	G	A
Z94721.1	6	166981916	A	T
Z94721.1	6	166982622	A	G
Z94721.1	6	166990944	C	T
Z94721.1	6	166991004	G	A
FABP5P3	7	152436427	T	G
RANBP6	9	6011335	T	C
RANBP6	9	6011469	A	T
RANBP6	9	6012734	A	C
RANBP6	9	6015011	T	C
RANBP6	9	6011134	G	A
RANBP6	9	6011757	G	A
ZNF189	9	101405436	A	G
ZNF189	9	101405720	A	G
ZNF189	9	101405694	G	A
ZNF189	9	101408068	A	G
ZNF189	9	101409241	A	G
ZNF189	9	101409574	C	T
ZNF189	9	101409713	G	A
ZNF189	9	101410161	G	T
MED27	9	131904539	C	G
MED27	9	131973612	C	T
MED27	9	131973650	G	A
MED27	9	131986500	C	T
MED27	9	131860193	T	C
MED27	9	131938734	A	C
MED27	9	131993230	GT	G
MED27	9	131941801	A	G
CLMN	14	95193319	T	C
CLMN	14	95201667	T	C
CLMN	14	95193410	C	T
CLMN	14	95193905	A	G
CLMN	14	95182087	T	G
CLMN	14	95182320	C	A
CLMN	14	95182446	C	A
AC087721.2	15	41380382	T	G
AC087721.2	15	41320696	A	G
AC087721.2	15	41320902	G	C
AC087721.2	15	41342389	A	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC087721.2	15	41342390	C	A
AC087721.2	15	41380186	A	G
AC087721.2	15	41380243	A	AT
TTYH2	17	74249962	T	C
TTYH2	17	74250327	C	T
TTYH2	17	74252344	A	G
TTYH2	17	74253090	C	A
TTYH2	17	74261114	C	G
TTYH2	17	74261793	T	C
TTYH2	17	74261574	C	T
TTYH2	17	74252343	C	A
TTYH2	17	74244038	T	G
TTYH2	17	74253786	C	T
TTYH2	17	74261640	G	A
TTYH2	17	74261873	G	A
TYMS	18	668465	C	T
TYMS	18	671834	C	T
TYMS	18	672836	A	G
TYMS	18	667950	T	C
TYMS	18	668036	A	T
TYMS	18	668038	A	T
TYMS	18	668258	C	T
TYMS	18	668300	G	A
TYMS	18	669292	GTTGA	G
TYMS	18	670541	A	G
OTUD3	1	19912367	C	G
OTUD3	1	19911110	A	G
OTUD3	1	19911267	A	G
OTUD3	1	19911850	A	G
ZBTB80S	1	32638372	T	C
ZBTB80S	1	32642950	T	C
ZBTB80S	1	32634036	A	G
ZBTB80S	1	32641423	A	G
ZBTB80S	1	32621171	T	C
ZBTB80S	1	32621173	G	T
ZBTB80S	1	32621208	A	G
BMP8A	1	39528818	T	C
BMP8A	1	39528874	A	T
BMP8A	1	39528873	A	T
BMP8A	1	39529360	A	C
BMP8A	1	39522412	G	A
LINC01353	1	203288591	C	T
AL157392.5	10	13655581	A	G
AL157392.5	10	13655651	C	G
AL157392.5	10	13655807	C	G
TIMM23B-AGAP6	10	49977716	G	A
TIMM23B-AGAP6	10	50010183	G	A
TIMM23B-AGAP6	10	49988924	G	A
TIMM23B-AGAP6	10	50008914	CAA	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TIMM23B-AGAP6	10	50009819	C	A
TIMM23B-AGAP6	10	50010039	C	T
TIMM23B-AGAP6	10	49986420	CA	C
BBIP1	10	110907394	A	G
BBIP1	10	110908792	TA	T
BBIP1	10	110907566	C	T
BBIP1	10	110915318	A	T
CD81	11	2396663	C	T
CD81	11	2396705	T	C
CD81	11	2397107	A	G
CD81	11	2397119	G	GC
CD81	11	2397200	T	C
CD81	11	2397328	C	T
CD81	11	2397332	G	A
CD81	11	2396906	C	G
CD81	11	2394734	G	A
CD81	11	2394756	G	A
CD81	11	2394888	G	A
CSTF3	11	33154634	T	C
CSTF3	11	33129376	G	A
CSTF3	11	33148915	A	C
CSTF3	11	33148971	C	T
CSTF3	11	33154608	T	C
CSTF3	11	33154699	A	G
TP53I11	11	44933050	G	C
TP53I11	11	44932726	A	T
TP53I11	11	44932464	G	A
TP53I11	11	44933105	C	G
TP53I11	11	44934215	G	A
UQCC3	11	62672504	AT	A
UQCC3	11	62672687	T	A
EP400	12	132077581	C	A
EP400	12	131974788	A	G
EP400	12	131954720	A	G
EP400	12	131954866	A	G
EP400	12	131954868	A	G
EP400	12	131966760	C	T
EP400	12	132003134	C	CA
EP400	12	132023844	A	G
EP400	12	132029743	C	G
EP400	12	132062545	A	G
EP400	12	132062551	G	A
EP400	12	132064755	A	G
EP400	12	132078071	A	G
EP400	12	132078462	T	C
EP400	12	132077442	C	T
CYSLTR2	13	48709989	G	A
CYSLTR2	13	48709351	A	G
CYSLTR2	13	48708895	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CYSLTR2	13	48709632	A	C
CYSLTR2	13	48709668	C	A
PCCA	13	100117862	A	G
PCCA	13	100118645	C	A
PCCA	13	100118782	C	G
PCCA	13	100138969	A	G
PCCA	13	100143414	A	G
PCCA	13	100174640	A	G
PCCA	13	100188332	C	A
PCCA	13	100201570	G	A
PCCA	13	100188368	A	G
PCCA	13	100453477	TAA	T
PCCA	13	100454078	A	G
PCCA	13	100174727	CA	C
PCCA	13	100235868	A	G
REC8	14	24178608	T	C
REC8	14	24177197	GGAA	G
REC8	14	24173139	C	T
COCH	14	30893179	G	A
COCH	14	30894714	A	C
ARHGAP5	14	32115465	T	C
ARHGAP5	14	32157599	T	A
ARHGAP5	14	32155636	A	G
ARHGAP5	14	32156243	A	G
GPHN	14	66665098	A	G
GPHN	14	66665127	A	G
GPHN	14	66516944	A	G
GPHN	14	66517009	A	G
GPHN	14	66517010	A	G
GPHN	14	66581387	C	A
GPHN	14	66590338	A	G
GPHN	14	66662963	A	C
GPHN	14	66517077	A	G
GPHN	14	66578701	A	T
GPHN	14	66588496	A	G
GPHN	14	66721822	C	T
GPHN	14	66721886	G	A
GPHN	14	66782901	G	T
GPHN	14	66874771	C	A
GPHN	14	66517778	AC	A
GPHN	14	66581370	C	A
GPHN	14	66588621	G	A
SPTBN5	15	41848216	G	A
SPTBN5	15	41851335	T	G
SPTBN5	15	41848255	T	C
LCMT2	15	43327875	A	C
LCMT2	15	43328245	T	C
LCMT2	15	43329749	A	G
AC091167.7	15	90261217	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC091167.7	15	90261278	T	C
AC091167.7	15	90247169	T	C
AC091167.7	15	90247170	T	C
AC091167.7	15	90256545	T	C
LUC7L	16	190339	T	C
LUC7L	16	192899	G	C
LUC7L	16	221093	T	C
LUC7L	16	227459	G	A
LUC7L	16	190281	A	C
LUC7L	16	192771	A	G
LUC7L	16	223772	T	C
LUC7L	16	221248	T	C
MOSMO	16	22008745	(various)	T
MOSMO	16	22009407	A	G
MOSMO	16	22011886	T	C
MOSMO	16	22012282	G	A
MOSMO	16	22058425	CA	C
MOSMO	16	22081134	CAT	C
NPIPBI1	16	29392589	A	G
NPIPBI1	16	29392635	A	G
NPIPBI1	16	29403176	T	C
NPIPBI1	16	29389225	TGTG	T
NPIPBI1	16	29389350	T	A
NPIPBI1	16	29391000	A	G
NPIPBI1	16	29392531	A	G
NPIPBI1	16	29392588	T	C
NPIPBI1	16	29392599	A	G
NPIPBI1	16	29381661	T	C
NPIPBI1	16	29381477	G	A
AC106886.2	16	30751319	C	T
AC106886.2	16	30751137	C	T
AC106886.2	16	30748395	T	C
SIAH1	16	48377613	T	C
SIAH1	16	48377614	T	C
SIAH1	16	48377526	T	C
SIAH1	16	48377390	CT	C
SIAH1	16	48377492	T	C
SIAH1	16	48377622	T	C
SIAH1	16	48378307	T	C
SYCE1L	16	77212898	C	G
SYCE1L	16	77212321	G	A
SYCE1L	16	77212620	C	A
SYCE1L	16	77212950	T	G
SYCE1L	16	77212642	G	A
CRLF3	17	30791163	C	T
CRLF3	17	30807552	C	G
CRLF3	17	30795460	T	C
CRLF3	17	30814103	T	C
CRLF3	17	30815425	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CRLF3	17	30816649	C	T
CRLF3	17	30816731	T	C
ATP6V0A1	17	42471532	A	G
ATP6V0A1	17	42480711	C	T
ATP6V0A1	17	42487584	C	T
ATP6V0A1	17	42521449	G	A
BECN1	17	42812898	A	G
BECN1	17	42813045	T	C
ST6GALNAC2	17	76582267	G	T
ST6GALNAC2	17	76583565	G	A
ST6GALNAC2	17	76582709	T	C
ST6GALNAC2	17	76582814	G	A
ST6GALNAC2	17	76583771	G	T
ST6GALNAC2	17	76583871	G	A
ST6GALNAC2	17	76584339	G	A
ST6GALNAC2	17	76584511	T	G
ST6GALNAC2	17	76583794	G	C
CARD14	17	80200874	T	G
CARD14	17	80200965	T	C
CARD14	17	80201132	G	A
CARD14	17	80201348	T	C
CARD14	17	80201684	T	C
CARD14	17	80203869	G	A
SLC26A11	17	80222429	C	T
SLC26A11	17	80236977	C	T
SLC26A11	17	80251146	A	T
SLC26A11	17	80251256	G	T
SLC26A11	17	80223262	G	A
SLC26A11	17	80248734	C	T
SLC26A11	17	80248766	A	G
SLC26A11	17	80249439	T	C
SLC26A11	17	80251015	G	A
SLC26A11	17	80252843	A	G
SLC26A11	17	80252880	A	G
SLC26A11	17	80252975	G	C
SLC26A11	17	80253027	A	G
SLC26A11	17	80253070	C	T
SLC26A11	17	80253211	T	C
SLC26A11	17	80253356	G	A
PTPRM	18	8387221	G	C
PTPRM	18	8387197	G	A
PTPRM	18	7642848	TA	T
SF3A2	19	2246404	G	A
SF3A2	19	2248021	G	A
SF3A2	19	2248153	T	C
GYS1	19	48979265	C	T
GYS1	19	48979329	T	C
GYS1	19	48979419	G	A
GYS1	19	48982291	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GYS1	19	48988037	T	C
GYS1	19	48968447	T	C
GYS1	19	48969576	C	T
GYS1	19	48988884	T	C
GYS1	19	48968563	G	A
TRIM28	19	58549179	C	A
TRIM28	19	58549180	A	C
TRIM28	19	58548112	A	G
TRIM28	19	58546716	G	T
TRIM28	19	58548362	G	A
AGBL5	2	27064472	T	C
AGBL5	2	27062111	A	G
AGBL5	2	27064257	CCAA	C
SUMO1	2	202234745	T	C
SUMO1	2	202222810	CT	C
SUMO1	2	202234822	CAA	C
SUMO1	2	202234973	G	A
SIGLEC1	20	3687435	G	T
SIGLEC1	20	3688518	T	G
SIGLEC1	20	3694851	T	G
SIGLEC1	20	3697089	T	G
SIGLEC1	20	3700087	T	C
SIGLEC1	20	3700147	T	C
SIGLEC1	20	3700186	C	G
SIGLEC1	20	3700306	C	T
SIGLEC1	20	3704082	T	C
CBFA2T2	20	33497362	T	C
CBFA2T2	20	33645263	TA	T
CBFA2T2	20	33522506	T	C
AP000346.1	22	23638568	C	G
AP000346.1	22	23638781	T	A
AP000346.1	22	23638746	C	T
AP000346.1	22	23638754	T	C
AP000346.1	22	23638802	A	G
AP000346.1	22	23638681	C	A
LRP5L	22	25357264	G	A
LRP5L	22	25357354	G	A
CCDC157	22	30366151	G	A
CCDC157	22	30366189	G	A
CCDC157	22	30375469	T	C
CCDC157	22	30375565	T	G
CCDC157	22	30356953	C	A
CCDC157	22	30376697	C	T
SH3BP5-AS1	3	15259856	G	A
SH3BP5-AS1	3	15264388	C	T
SH3BP5-AS1	3	15258375	G	T
SH3BP5-AS1	3	15255097	G	A
SH3BP5-AS1	3	15255962	A	G
SH3BP5-AS1	3	15257204	TG	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SH3BP5-AS1	3	15257720	G	A
SH3BP5-AS1	3	15258223	T	G
SH3BP5-AS1	3	15259194	G	A
SH3BP5-AS1	3	15259292	C	T
SH3BP5-AS1	3	15260064	C	T
SH3BP5-AS1	3	15260321	T	G
SH3BP5-AS1	3	15264363	C	T
TTC21A	3	39138608	T	C
TTC21A	3	39138772	G	A
SLC9A3	5	479790	A	C
SLC9A3	5	480394	A	G
SLC9A3	5	479631	C	G
SLC9A3	5	480083	G	A
SLC9A3	5	480782	G	A
PDGFRL2P	5	151177015	T	C
PDGFRL2P	5	151179188	C	T
HCG4B	6	29926662	A	T
HCG4B	6	29926679	T	G
HCG4B	6	29926803	T	G
HCG4B	6	29926761	C	A
DXO	6	31970635	G	T
DXO	6	31970674	T	C
DXO	6	31970240	TG	T
DXO	6	31970959	C	T
DXO	6	31971568	G	A
AC017116.2	7	44036751	T	C
AC017116.2	7	44029282	A	G
AC017116.2	7	44029621	G	A
AC068533.4	7	66117105	G	T
AC068533.4	7	66128201	C	A
AC068533.4	7	66138684	C	G
AC068533.4	7	66116061	A	G
AC068533.4	7	66095065	G	C
AC068533.4	7	66116340	A	G
AC068533.4	7	66116341	A	G
AC068533.4	7	66116488	TA	T
AC068533.4	7	66117009	A	T
AC068533.4	7	66146364	C	T
TYW1B	7	72681801	G	C
TYW1B	7	72749870	C	T
TYW1B	7	72664377	A	G
TYW1B	7	72728896	C	T
TYW1B	7	72728900	A	G
TYW1B	7	72664333	G	A
NSUN5P1	7	75416415	T	C
NSUN5P1	7	75413167	G	A
NSUN5P1	7	75413261	C	A
ZC3HC1	7	130048211	G	A
ZC3HC1	7	130041708	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZC3HC1	7	130043767	C	T
ZC3HC1	7	130028906	G	A
RBIS	8	85218399	A	G
RBIS	8	85219234	A	T
RBIS	8	85220335	T	C
LRP12	8	104549528	A	G
LRP12	8	104549558	G	A
LRP12	8	104549805	C	T
LRP12	8	104489585	G	A
LRP12	8	104511301	C	T
LRP12	8	104549674	T	C
LRP12	8	104549675	T	C
LRP12	8	104552487	T	C
LRP12	8	104489598	T	A
CDK20	9	87966831	T	C
CDK20	9	87973988	C	T
NRARP	9	137300567	C	A
NRARP	9	137300697	T	C
NRARP	9	137301948	C	T
AL683807.1	X	1733975	G	C
AL683807.1	X	1742679	A	C
AL683807.1	X	1744126	T	C
AL683807.1	X	1745221	T	C
AL683807.1	X	1751786	A	C
AL683807.1	X	1742692	G	GA
AL683807.1	X	1742665	A	G
MIR222HG	X	45745347	G	A
MIR222HG	X	45746704	C	G
MIR222HG	X	45765421	T	A
MIR222HG	X	45755188	C	A
MIR222HG	X	45746667	AAG	A
ATP7A	X	77916232	A	G
ATP7A	X	77916234	A	G
ATP7A	X	77916310	A	G
ATP7A	X	77916297	A	G
ATP7A	X	77964830	A	G
SCNM1	1	151168543	G	C
SCNM1	1	151168582	A	G
SCNM1	1	151167346	A	G
CRYZL2P-SEC16B	1	178006303	T	C
CRYZL2P-SEC16B	1	178006466	A	G
CRYZL2P-SEC16B	1	178006793	A	G
AL132656.2	10	79671902	C	T
AL132656.2	10	79664778	A	G
AL132656.2	10	79664787	T	A
AL132656.2	10	79671099	G	A
MMRN2	10	86965552	T	C
MMRN2	10	86966227	A	G
MMRN2	10	86966982	G	A

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AP006621.1	11	828916	G	A
AP006621.1	11	830670	G	T
AP006621.1	11	831809	T	G
AP006621.1	11	829539	A	G
DLEU1	13	50129554	C	T
DLEU1	13	50127102	G	A
DLEU1	13	50126295	C	T
DLEU1	13	50130742	G	A
DACH1	13	71705950	C	T
DACH1	13	71713089	CT	C
DACH1	13	71749149	T	C
DACH1	13	71775049	T	C
CGRRF1	14	54524554	TA	T
CGRRF1	14	54538371	G	A
CGRRF1	14	54539003	C	T
CGRRF1	14	54539032	G	A
AL031708.1	16	1684962	T	A
AL031708.1	16	1686480	A	G
AL031708.1	16	1686569	A	G
RHOT1	17	32225477	TAAAG	T
RHOT1	17	32182920	C	G
RHOT1	17	32206951	A	G
RHOT1	17	32180518	T	C
PRR11	17	59203694	A	G
PRR11	17	59203697	A	G
PRR11	17	59204732	G	A
PRR11	17	59204560	T	C
PRR11	17	59205210	G	A
CYP2S1	19	41207036	C	A
CYP2S1	19	41206370	C	T
CYP2S1	19	41207468	G	A
LILRB5	19	54251110	T	A
LILRB5	19	54251143	C	G
LILRB5	19	54251034	C	T
ASIC4-AS1	2	219506313	C	G
IGLV10-54	22	22114567	C	T
IGLV10-54	22	22114623	T	A
IGLV10-54	22	22114629	T	A
IGLV10-54	22	22098963	G	A
IGLV10-54	22	22098989	A	C
AC079921.1	4	39132751	G	A
AC079921.1	4	39137343	A	C
AC079921.1	4	39137350	C	CAA
AC079921.1	4	39139212	A	G
AC079921.1	4	39127432	C	T
AC079921.1	4	39133944	G	A
AC079921.1	4	39142824	C	A
AC079921.1	4	39127293	C	T
AC079921.1	4	39128224	T	G

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC079921.1	4	39138657	G	A
AC079921.1	4	39148651	A	G
METAP1	4	99047108	T	G
METAP1	4	99047127	T	C
METAP1	4	99055390	CA	C
METAP1	4	99062161	T	C
METAP1	4	99061728	A	G
METAP1	4	99062322	A	T
METAP1	4	99062382	C	G
NAIP	5	71012424	C	T
GABBR1	6	29632327	G	A
GABBR1	6	29603064	A	G
GABBR1	6	29613264	A	C
GABBR1	6	29613333	A	G
GABBR1	6	29613336	A	G
CREB5	7	28410346	T	C
CREB5	7	28725646	A	T
CREB5	7	28725659	A	G
CREB5	7	28742490	T	C
CREB5	7	28750602	A	ATT
CREB5	7	28790512	T	G
CREB5	7	28823176	G	A
CREB5	7	28743554	C	A
CREB5	7	28734340	A	C
CREB5	7	28409713	C	A
CREB5	7	28716164	A	G
CSPP1	8	67136438	A	G
CSPP1	8	67186418	TA	T
CSPP1	8	67118817	G	A
CSPP1	8	67149784	T	C
CSPP1	8	67161902	G	A
TDRD7	9	97435499	G	A
TDRD7	9	97435467	TA	T
TDRD7	9	97428498	A	G
TDRD7	9	97432124	T	C
PLEKHA5	12	19149393	A	G
PLEKHA5	12	19156851	C	A
PLEKHA5	12	19156974	G	A
PLEKHA5	12	19173074	A	T
PLEKHA5	12	19305719	G	T
FGD6	12	95080063	T	C
FGD6	12	95086933	T	C
FGD6	12	95164264	C	T
FGD6	12	95165333	T	C
FGD6	12	95077554	C	A
FGD6	12	95108527	G	A
FGD6	12	95146040	C	T
OAZ2	15	64688668	C	G
OAZ2	15	64698681	A	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
OAZ2	15	64698810	C	T
OAZ2	15	64688648	C	T
OAZ2	15	64703131	G	T
OAZ2	15	64703132	C	T
TPSB2	16	1228599	A	G
TPSB2	16	1228744	C	T
TPSB2	16	1228767	C	T
TPSB2	16	1229437	C	T
TPSB2	16	1229573	C	G
TPSB2	16	1229583	T	C
TPSB2	16	1229622	G	A
TPSB2	16	1229703	A	G
AC105094.2	18	61652286	C	C
AC105094.2	18	61652324	T	C
AC105094.2	18	61672868	C	G
AC105094.2	18	61701872	C	T
AC105094.2	18	61702059	T	A
SS18L1	20	62162852	G	A
SS18L1	20	62166225	A	G
SS18L1	20	62180311	A	G
SS18L1	20	62182433	A	G
PYURF	4	88522011	G	A
PYURF	4	88521208	T	C
SMIM3	5	150795852	G	A
SMIM3	5	150778082	C	T
SMIM3	5	150778637	C	T
SMIM3	5	150778664	A	C
SMIM3	5	150788470	A	G
C5orf52	5	157672833	A	G
C5orf52	5	157672836	A	G
C5orf52	5	157673173	A	G
C5orf52	5	157673178	A	G
ST18	8	52399754	G	A
ST18	8	52399866	A	G
ST18	8	52399963	T	A
ST18	8	52406064	C	A
ST18	8	52406084	A	C
ST18	8	52407460	CA	C
ST18	8	52460888	C	T
ST18	8	52399361	C	T
AL355574.1	9	135909562	A	G
AL355574.1	9	135909890	A	G
AL355574.1	9	135909943	A	G
AL355574.1	9	135912518	A	G
AL355574.1	9	135912525	A	C
AL355574.1	9	135912531	A	G
AL355574.1	9	135912532	A	G
AL355574.1	9	135912680	A	G
AL355574.1	9	135908283	C	T

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL355574.1	9	135911944	C	A
AL355574.1	9	135913504	A	G
AL355574.1	9	135914088	C	T
AL355574.1	9	135914265	A	G
AL355574.1	9	135914304	G	A
AL355574.1	9	135914426	G	A
AL355574.1	9	135914446	CA	C
MSN	X	65695191	A	G
MSN	X	65740396	C	T
MSN	X	65740569	C	G
MSN	X	65740647	G	A
MSN	X	65740939	A	G
MSN	X	65741386	A	C
MSN	X	65718818	TA	T
CBFB	16	67082071	G	A
CBFB	16	67100637	AT	A
CBFB	16	67069275	T	C
CBFB	16	67100099	T	G
ZNF652	17	49324589	T	C
ZNF652	17	49324593	T	C
ZNF652	17	49324878	T	C
ZNF652	17	49361940	G	A
ARHGAP27P1-BPTFP1-KPNA2P3	17	64777143	A	C
ARHGAP27P1-BPTFP1-KPNA2P3	17	64751274	T	A
ARHGAP27P1-BPTFP1-KPNA2P3	17	64758554	G	A
ARHGAP27P1-BPTFP1-KPNA2P3	17	64781525	T	G
AP2A1	19	49769258	TA	T
AP2A1	19	49804199	A	G
AP2A1	19	49804420	A	G
AL049757.1	22	42791894	G	A
AL049757.1	22	42792174	C	A
AL049757.1	22	42792605	A	G
AL049757.1	22	42793074	C	T
AL049757.1	22	42793826	C	A
HNRNPA2B1	7	26193249	A	T
HNRNPA2B1	7	26193966	C	G
HNRNPA2B1	7	26194385	G	C
HNRNPA2B1	7	26198054	TAAAC	T
HNRNPA2B1	7	26190552	A	C
IQCE	7	2605918	A	C
IQCE	7	2610070	T	G
IQCE	7	2610442	C	T
IQCE	7	2614158	C	A
IQCE	7	2572244	T	C
IQCE	7	2573428	T	C

Table 11: Monocyte High IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
VCAM1	1	100738142	C	T
VCAM1	1	100738271	G	A
AC010507.1	19	200402	T	C
AC010507.1	19	199186	T	C
AC010507.1	19	199734	T	C
AC010507.1	19	199867	T	C
AC010507.1	19	199901	T	C
AC010507.1	19	199998	T	C
AC010507.1	19	200255	T	C
ABHD10	3	111991835	A	C
ABHD10	3	111993053	C	A
ABHD10	3	111993075	G	A
ABHD10	3	111993247	G	A
ABHD10	3	111992747	A	G
ABHD10	3	111992774	C	T
LINC02035	3	122891458	A	G
LINC02035	3	122891554	T	C
LINC02035	3	122891711	G	A
RASSF4	10	44982644	A	G
RASSF4	10	44984028	G	T
RASSF4	10	44984902	G	A
RASSF4	10	44993495	C	G
CACNA2D3	3	55074207	CACTGACTGAGATGTTCT CTT (SEQ ID No: 58)	C
CACNA2D3	3	55074387	TATCTATC	T
CACNA2D3	3	55074122	A	G
CACNA2D3	3	55074161	A	G
CACNA2D3	3	55074331	A	G
CACNA2D3	3	55074391	TATC	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC004076.1	19	57449116	G	A
AC004076.1	19	57473058	C	A
AC004522.5	7	100003456	C	T
AC004522.5	7	100003459	A	G
AC004556.3	KI270721.1	7994	G	A
AC004556.3	KI270721.1	11616	C	A
AC004596.1	17	44205669	C	T
AC004596.1	17	44205884	AAG	A
AC004596.1	17	44206430	ACT	A
AC004596.1	17	44210151	C	T
AC007406.4	12	274405	T	C
AC007406.4	12	274676	T	G
AC010491.1	5	14664586	A	C
AC011455.2	19	38931111	G	T
AC011455.2	19	38931180	T	G
AC011455.2	19	38931288	T	C
AC011455.2	19	38932361	T	C
AC019209.3	12	25804817	G	A
AC019209.3	12	25804851	G	A
AC023282.1	10	120789389	AAGAG	A
AC023282.1	10	120789488	A	G
AC024940.1	12	31112991	C	G
AC024940.1	12	31113049	G	A
AC024940.1	12	31121191	C	G
AC026748.3	5	1383435	C	T
AC026748.3	5	1384492	C	G
AC026748.3	5	1385547	T	C
AC068234.1	17	47316241	A	G
AC068234.1	17	47316299	T	C
AC068234.1	17	47316373	C	A
AC069288.1	7	2238861	T	C
AC069288.1	7	2238881	T	C
AC069288.1	7	2238886	T	C
AC069544.2	10	14845409	C	T
AC069544.2	10	14845600	T	TA
AC069544.2	10	14846275	G	A
AC074386.1	7	144335067	C	A
AC074386.1	7	144335068	A	C
AC074386.1	7	144335604	G	C
AC074386.1	7	144335901	T	C
AC074386.1	7	144336165	C	T
AC074386.1	7	144336719	A	C
AC074386.1	7	144336749	G	A
AC090409.1	18	61606390	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC093249.2	16	30604996	A	G
AC093249.2	16	30605083	T	C
AC093512.2	16	30070046	G	T
AC093512.2	16	30070155	C	T
AC098588.2	4	144995353	AT	A
AC098588.2	4	145097258	A	G
AC107871.2	15	68277820	T	G
AC107871.2	15	68277828	G	A
AC112220.2	3	33796632	T	G
AC112220.2	3	33797374	G	A
AC112220.2	3	33797856	T	C
AC114490.3	1	34981601	T	A
AC114490.3	1	34981613	ATATC	A
AC114752.2	2	64338094	G	T
AC114752.2	2	64338218	T	G
AC114752.2	2	64338286	C	T
AC122713.2	5	180078807	A	G
AC122713.2	5	180080499	A	G
AC226119.1	4	3955364	C	T
AC233280.1	3	195657535	T	G
AC233280.1	3	195657629	C	G
AC233280.1	3	195657630	A	G
AC233280.1	3	195657816	C	A
AC240274.1	KI270711.1	4827	T	C
AC240274.1	KI270711.1	4847	A	C
AC240274.1	KI270711.1	5102	T	C
AC240274.1	KI270711.1	5103	T	C
AC244502.1	14	22222237	C	T
AC244502.1	14	22222295	A	G
AC244502.1	14	22227031	C	T
AC244502.1	14	22320178	T	C
ADM	11	10307196	G	T
ADM	11	10307200	T	TC
ADM	11	10307220	A	G
ACBL4	1	48757232	G	A
AGBL4	1	48758912	G	T
AIFM1	X	130149545	A	G
AL162497.1	13	109787217	G	T
AL162497.1	13	109787389	CG	C
AL162497.1	13	109787941	G	A
AL357079.2	1	43970065	C	T
AL357079.2	1	43972724	A	C
AL357079.2	1	43973289	A	G
AL357079.2	1	43973302	C	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL360012.1	1	28648628	C	T
AL360012.1	1	28648704	C	T
AL513550.1	6	99425375	A	G
AL513550.1	6	99430743	G	C
AL513550.1	6	99431191	A	G
AL671883.2	6	31357219	G	C
AL671883.2	6	31357251	A	G
AL671883.2	6	31357253	T	C
ALDH18A1	10	95606063	G	A
ALDH18A1	10	95606350	A	G
ALDH18A1	10	95606607	C	T
ALDH18A1	10	95606918	C	T
ALDH18A1	10	95626740	G	T
ALG11	13	52024053	A	G
ALG11	13	52029058	G	T
ALG11	13	52029639	C	T
ALG11	13	52033033	T	C
AMZ2P1	17	64968175	T	C
AMZ2P1	17	64972875	C	T
AMZ2P1	17	64973444	T	G
AP001062.3	21	44329119	T	C
AP001062.3	21	44329222	G	C
AP5M1	14	57269236	T	C
AP5M1	14	57274832	A	G
AP5M1	14	57274845	G	C
AP5M1	14	57282982	A	C
AP5M1	14	57289361	T	C
AP5M1	14	57289898	A	G
APOBEC3F	22	39044144	C	T
APOBEC3F	22	39053116	A	G
ARC	8	142611420	C	T
ARC	8	142612823	G	A
ARC	8	142613414	G	C
ARC	8	142613783	G	A
ARC	8	142614317	A	G
ARC	8	142614320	G	C
ARHGEF35-AS1	7	144200254	A	G
ARHGEF35-AS1	7	144214083	C	T
ARHGEF35-AS1	7	144214159	G	A
ARHGEF35-AS1	7	144214242	C	T
ARHGEF35-AS1	7	144214272	T	G
ARHGEF35-AS1	7	144214826	G	A
ARHGEF35-AS1	7	144215090	A	G
ARHGEF35-AS1	7	144215387	C	G

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARHGEF35-AS1	7	144215535	G	A
ARHGEF35-AS1	7	144215988	G	A
ART3	4	76021608	AG	A
ART3	4	76021790	C	G
ART3	4	76033916	G	A
ART3	4	76034041	T	C
ART3	4	76034048	A	G
ART3	4	76034076	T	G
ART3	4	76034095	G	A
ART3	4	76034177	C	T
ART3	4	76034205	C	A
ART3	4	76034253	T	C
ART3	4	76034320	C	T
ART3	4	76034366	G	A
ART3	4	76034464	G	A
ART3	4	76034761	T	C
ART3	4	76109805	A	G
ART3	4	76109818	C	T
ART3	4	76109838	C	T
ART3	4	76110110	ATT	A
ASTE1	3	131024968	G	A
ASTE1	3	131025540	T	C
ATF2	2	175072767	A	T
ATF2	2	175074162	G	A
ATF2	2	175142186	CT	C
ATF2	2	175151112	T	C
BIRC7	20	63238474	C	T
BLK	8	11494547	A	G
BLK	8	11549084	T	C
BLK	8	11556728	T	C
BLK	8	11564284	C	T
BLK	8	11564536	G	A
C12orf45	12	104986365	G	A
C12orf45	12	104986374	A	C
C12orf66	12	64193853	C	A
C12orf66	12	64215782	T	C
C19orf48	19	50797864	C	T
C19orf48	19	50797973	G	A
C19orf48	19	50798138	C	T
C19orf48	19	50798199	G	A
C19orf48	19	50798809	A	G
C19orf48	19	50798897	G	A
C19orf48	19	50798945	T	A
C19orf48	19	50804573	C	G

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
C19orf48	19	50804576	G	A
Clorf53	1	197905819	T	C
C3orf33	3	155763308	C	T
C3orf33	3	155763820	G	A
C3orf33	3	155767513	C	T
C9orf16	9	128162643	T	C
C9orf16	9	128163632	A	C
CABP5	19	48030355	T	C
CABP5	19	48040605	G	A
CAPN12	19	38733773	A	G
CASC9	8	75176513	T	C
CASC9	8	75176523	T	C
CBLN3	14	24429988	C	T
CBLN3	14	24430158	G	C
CCDC102A	16	57512515	C	T
CCDC102A	16	57518176	T	C
CCDC102A	16	57528892	G	A
CCDC184	12	48184542	A	C
CCDC184	12	48184659	C	T
CCDC184	12	48184848	G	C
CCDC51	3	48432839	G	A
CCDC51	3	48440024	T	G
CCT6P3	7	65038404	G	T
CCT6P3	7	65072510	G	A
CCT6P3	7	65074433	A	T
CD320	19	8302475	G	C
CD320	19	8308268	T	C
CD320	19	8308292	C	T
CDC23	5	138187741	T	C
CDC37L1-DT	9	4676745	G	C
CDH13	16	83755841	G	A
CDH13	16	83758085	GA	G
CDH13	16	83758124	A	C
CDH13	16	83760001	A	C
CDKN2C	1	50969343	CG	C
CDKN2C	1	50974105	C	T
CDKN2C	1	50974421	C	T
CLDN5	22	19523485	G	A
CLDN5	22	19523608	GTTC	G
CLEC1B	12	9997252	C	T
CLEC1B	12	9999043	T	C
CMTM6	3	32483215	T	C
CMTM6	3	32483534	C	T
CMTM6	3	32483769	A	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CMTM6	3	32491754	T	C
CNGB1	16	57894417	G	A
CNGB1	16	57894516	A	G
CNGB1	16	57894643	G	A
COL5A3	19	9973616	C	G
COL5A3	19	10003576	C	G
COMMD3	10	22316469	C	G
COMMD3	10	22320091	T	G
COX14	12	50112104	A	C
COX14	12	50120299	C	G
COX14	12	50120310	C	T
CRB2	9	123379954	C	A
CRB2	9	123380101	C	A
CTRL	16	67930300	T	C
CTTN	11	70407369	C	T
CTTN	11	70433660	C	T
CYP2U1-AS1	4	107951432	T	G
CYP2U1-AS1	4	107952129	T	C
CYP2U1-AS1	4	107952152	A	C
CYP2U1-AS1	4	107952883	C	A
CYSLTR1	X	78271807	T	C
CYSLTR1	X	78271975	A	G
CYSLTR1	X	78272820	G	A
CYTH2	19	48474222	C	T
CYTH2	19	48479305	T	G
DANT2	X	115718570	G	T
DANT2	X	115718573	G	T
DANT2	X	115718576	G	T
DCLRE1B	1	113905767	C	T
DCLRE1B	1	113907040	T	C
DCLRE1B	1	113913285	G	A
DCXR	17	82036724	C	T
DDIT3	12	57517685	A	G
DDIT3	12	57517796	G	A
DDIT3	12	57517946	C	T
DENND2A	7	140673526	A	G
DENND2A	7	140673530	G	A
DENND6A-DT	3	57693324	A	T
DENND6A-DT	3	57693493	G	A
DERL1	8	123032986	CA	C
DERL1	8	123033138	T	C
DKK3	11	11963307	T	A
DKK3	11	11964514	T	C
DKK3	11	12001351	A	G

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DNAH11	7	21691356	G	A
DNAH11	7	21901757	CTCCAGTG	C
DTWD1	15	49625144	G	A
DTWD1	15	49625204	G	A
DZIP3	3	108654175	G	A
DZIP3	3	108654178	GA	G
DZIP3	3	108684239	T	C
EDC4	16	67879459	A	G
EDC4	16	67884055	G	A
EEF2K	16	22251193	C	A
EEF2K	16	22258546	A	C
EEF2K	16	22285165	C	A
EEF2K	16	22285282	T	C
EEF2K	16	22285640	C	T
EEF2KMT	16	5089185	G	C
EEF2KMT	16	5089216	C	G
EGFL7	9	136670216	G	A
EGFL7	9	136672371	A	G
EHMT1	9	137716984	T	C
EHMT1	9	137744009	T	C
EHMT1	9	137754290	C	T
EHMT1	9	137782806	G	T
EHMT1	9	137782808	A	C
EIF4A3	17	80134520	A	C
EIF4A3	17	80140033	G	A
EIF4A3	17	80140234	G	A
EPOP	17	38672272	G	A
EPOP	17	38674206	G	A
ERGIC2	12	29368260	A	G
ERICH6	3	150703632	G	A
EXOSC8	13	37000473	C	G
EXOSC8	13	37000544	C	T
EXOSC8	13	37000571	G	A
EXOSC8	13	37000577	C	T
EXOSC8	13	37001629	C	T
EXOSC8	13	37006002	G	A
FAIM	3	138609109	T	C
FAIM	3	138629115	G	A
FAM189A1	15	29268409	C	T
FAM189A1	15	29268527	C	T
FAM200A	7	99546467	T	C
FAM200A	7	99548222	C	T
FAM241B	10	69632801	C	T
FAM241B	10	69632936	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FAM241B	10	69633269	A	G
FAM71D	14	67200444	C	T
FAM86DP	3	75423058	C	T
FAM86DP	3	75426519	A	C
FAM86DP	3	75426534	A	G
FARS2	6	5261612	A	G
FARS2	6	5431107	A	G
FARS2	6	5504534	A	G
FBXL4	6	98869954	G	C
FBXL4	6	98927762	G	T
FBXL4	6	98947834	C	A
FBXO31	16	87355796	C	T
FBXO31	16	87356385	G	A
FBXO31	16	87384015	G	A
FBXO31	16	87384100	G	A
FBXO45	3	196584874	TA	T
FBXO45	3	196586080	T	C
FBXO45	3	196586901	GA	G
FBXO45	3	196587881	A	G
FBXO45	3	196588413	T	C
FH	1	241504223	C	T
FUT5	19	5866025	T	C
FUT5	19	5866062	A	C
FUT5	19	5866574	C	T
FUT5	19	5866643	A	G
FUT5	19	5866805	G	A
FUT5	19	5866829	T	C
FUT5	19	5867737	G	T
GATA6	18	22200895	G	A
GATA6	18	22200900	A	G
GFPT2	5	180300957	C	T
GFPT2	5	180302519	A	G
GGH	8	63015187	T	C
GGH	8	63026205	G	A
CCH	8	63038678	C	T
GGH	8	63038753	A	G
GGPS1	1	235329657	T	G
GGPS1	1	235340296	C	G
GGPS1	1	235342883	G	A
GGPS1	1	235343198	C	T
GGPS1	1	235343529	T	C
GGPS1	1	235343538	G	A
GGPS1	1	235343603	G	C
GGPS1	1	235343688	C	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GIMAP4	7	150572384	G	A
GIMAP4	7	150572454	G	T
GIMAP4	7	150572829	G	A
GIMAP4	7	150573086	T	A
GIMAP4	7	150573252	A	G
GIMAP4	7	150573272	T	G
GIMAP4	7	150573697	T	G
GIMAP4	7	150573751	A	G
GIMAP4	7	150573911	T	C
GJB6	13	20222358	C	A
GJB6	13	20229669	A	T
GJB6	13	20230725	G	C
GLYCTK	3	52291023	G	A
GPAM	10	112160707	G	A
GPAM	10	112180571	T	C
GREM1	15	32733426	C	T
GREM1	15	32734087	G	A
H2AZ1-DT	4	100186011	G	A
H2AZ1-DT	4	100186034	C	G
H2AZ1-DT	4	100186119	C	A
H2AZ1-DT	4	100186507	C	A
H2AZ1-DT	4	100190352	G	A
HDX	X	84394016	C	G
HDX	X	84434972	G	A
HLA-DPB2	6	33128048	C	T
HLA-DPB2	6	33128065	C	A
HMBS	11	119084969	C	T
HMBS	11	119091520	G	T
HNRNPR	1	23306785	G	A
HNRNPR	1	23344260	C	A
HOOK1	1	59874502	T	A
HOOK1	1	59874602	A	G
HPGD	4	174491326	C	T
HPGD	4	174522005	C	T
HRAT92	7	524247	C	A
HRAT92	7	524254	C	A
HRAT92	7	524944	G	A
HSD17B4	5	119475838	G	A
HSD17B4	5	119499411	A	C
HSD17B4	5	119525243	T	C
HSD17B4	5	119526018	A	G
HSPA2	14	64541533	C	T
HSPA4L	4	127813128	T	C
ICMT	1	6221607	A	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ICMT	1	6224620	C	T
IFT46	11	118551811	G	A
IFT46	11	118559804	C	T
IFT46	11	118572423	C	T
IGHJ6	14	105863225	T	G
IGHV3-30	14	106335366	G	A
IGHV3-30	14	106335517	C	T
IGHV3-30	14	106335518	T	G
IGKV1-5	2	88947525	T	G
IGKV1-5	2	88947541	T	C
IGKV1-5	2	88947561	A	C
IGKV1-5	2	88947580	G	A
IGKV3-20	2	89142701	C	A
IGKV3-20	2	89142814	C	T
IGKV3-20	2	89142857	A	G
IGKV3-20	2	89142859	T	A
IGKV3-20	2	89142868	G	A
IGKV3-20	2	89142869	G	A
IGKV3-20	2	89142869	G	C
IGKV3-20	2	89143067	C	A
IGLV2-23	22	22697976	C	A
IGLV2-23	22	22697977	T	C
IGLV2-23	22	22697991	A	G
IGLV2-23	22	22698160	G	A
IGSF1	X	131384609	A	G
IGSF1	X	131384637	G	A
INTS14	15	65579360	G	T
INTS14	15	65611060	G	A
IRF6	1	209786527	G	A
IRF6	1	209795339	C	A
IRF6	1	209802041	A	G
ITGB5	3	124763140	A	G
ITGB5	3	124763375	C	T
ITGB5	3	124796461	A	G
KANK2	19	11164463	A	C
KANK2	19	11164582	A	G
KANK2	19	11164718	C	A
KANK2	19	11165135	CTG	C
KANK2	19	11165166	G	A
KAT14	20	18138400	G	T
KAT14	20	18138403	C	T
KAT14	20	18142440	CT	C
KAT14	20	18162473	T	G
KAT14	20	18162711	C	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KAT14	20	18187709	T	C
KCNC4	1	110211143	G	C
KCNC4	1	110211186	G	A
KCNC4	1	110223844	G	A
KIAA0753	17	6578456	C	T
KIAA0753	17	6578613	G	A
KIAA1328	18	36885854	T	G
KIAA1328	18	36886112	A	C
KLHL26	19	18664267	C	T
KLHL26	19	18669959	T	C
KLHL26	19	18669989	C	T
KLHL26	19	18670107	G	A
KLHL26	19	18670356	TA	T
KLHL26	19	18670383	C	T
KLHL26	19	18671103	T	C
KLHL26	19	18671387	C	T
KLHL26	19	18671567	A	G
KLRF1	12	9833319	G	T
KLRF1	12	9844676	C	G
KLRF1	12	9844712	A	C
LCMT1	16	25125968	G	C
LCMT1	16	25126064	G	A
LCMT1	16	25178091	C	G
LINC00426	13	30367668	A	G
LINC00426	13	30367687	T	C
LINC00426	13	30367695	T	C
LINC00960	3	75741362	T	C
LINC00960	3	75741671	A	G
LINC01011	6	2990139	C	T
LINC01011	6	2990751	T	C
LINC01011	6	2990961	C	T
LINC01011	6	2990991	T	C
LINC01184	5	127966774	A	G
LINC01258	4	38509938	A	C
LINC01258	4	38518917	C	A
LINC02084	3	27713235	G	C
LINC02084	3	27713254	A	G
LINC02084	3	27713255	T	C
LINC02084	3	27713257	A	G
LINC02481	4	6687929	A	G
LINC02481	4	6688214	G	A
LINC02481	4	6688229	A	G
LINC02481	4	6688240	G	A
LINC02481	4	6688754	A	T

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC02481	4	6688799	T	C
LINC02481	4	6688808	C	G
LLPH	12	66122980	T	C
LMO7	13	75835300	A	G
LMO7	13	75849112	T	C
LRRC27	10	132332331	G	C
LRRC27	10	132332419	C	T
LTBP1	2	33315181	G	A
LTBP1	2	33347488	G	A
LTBP1	2	33360729	T	C
LTN1	21	28969569	A	G
MAGEF1	3	184711115	T	G
MAGEF1	3	184711626	C	A
MAGI3	1	113390656	C	A
MAGI3	1	113509879	G	A
MAP2K6	17	69516862	C	A
MCF2L	13	112928127	C	T
MCF2L	13	113097462	G	C
MCM3	6	52264411	T	G
MCM3	6	52264686	C	T
MCM3	6	52266077	G	C
MGAT4B	5	179801377	G	A
MGAT4B	5	179801893	G	C
MIEF1	22	39511970	C	T
MIEF1	22	39513717	C	T
MIEF1	22	39515112	G	T
MIEF1	22	39515349	A	C
MIEF1	22	39515964	A	G
MIEF1	22	39516161	TA	T
MIEF1	22	39516414	T	C
MIEF1	22	39516658	G	A
MIEF1	22	39516964	C	T
MIEF1	22	39517277	T	G
MIEF1	22	39517415	C	T
MIEF1	22	39517552	G	A
MIEF1	22	39517621	A	C
MKNK1-AS1	1	46557859	C	A
MMGT1	X	135964314	CAAAT	C
MMGT1	X	135964659	C	T
MOCS2	5	53096187	G	A
MOCS2	5	53098188	GC	G
MOCS3	20	50960830	G	A
MOCS3	20	50961021	C	T
MOSPD1	X	134888883	A	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MOSPD1	X	134888913	A	G
MRPL23	11	1952799	G	A
MRPL23	11	1955758	A	G
MRPL23	11	1956421	C	A
MRPL27	17	50370038	A	C
MRPL27	17	50370567	G	A
MRPL27	17	50373175	T	G
MRPS14	1	175014497	T	C
MRPS14	1	175014705	A	G
MSH2	2	47410300	C	T
MSH2	2	47521153	A	G
MTERF4	2	241095731	G	T
MTERF4	2	241096043	CTCG	C
MTERF4	2	241097382	A	G
MTREX	5	55307994	T	C
MTREX	5	55349583	G	A
MTREX	5	55378468	A	G
MTREX	5	55379139	G	A
MYL4	17	47219638	C	T
MYLK	3	123692742	G	A
MYLK	3	123707272	C	A
NAE1	16	66808999	C	T
NAE1	16	66828063	G	A
NDRG3	20	36651865	T	C
NDRG3	20	36652027	T	C
NDRG3	20	36652053	C	A
NDUFAF1	15	41387487	G	C
NDUFAF1	15	41387519	C	T
NDUFAF1	15	41396968	C	A
NDUFAF1	15	41397034	C	T
NDUFB10	16	1959571	G	T
NDUFB10	16	1959589	G	A
NDUFB10	16	1961924	C	T
NETO2	16	47082273	T	G
NETO2	16	47082768	T	C
NETO2	16	47083544	A	G
NETO2	16	47083743	G	A
NFE2L3	7	26174707	G	T
NFE2L3	7	26185048	C	T
NLRX1	11	119182117	C	A
NLRX1	11	119183223	G	A
NR3C2	4	148079934	T	C
NR3C2	4	148435364	A	G
NR3C2	4	148436862	G	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NR3C2	4	148442807	C	T
NR3C2	4	148443628	G	A
NR3C2	4	148443847	C	T
NSUN3	3	94101854	T	G
NSUN3	3	94127987	G	A
NT5DC1	6	116244341	G	A
NT5DC1	6	116244562	C	A
NT5DC1	6	116245033	CTATT	C
NT5DC1	6	116249325	A	G
NUDCD1	8	109242786	CT	C
NUDCD1	8	109289769	T	C
NUDCD1	8	109289818	T	G
NXT2	X	109543085	G	A
NXT2	X	109543647	T	C
NXT2	X	109543785	T	C
OSGIN2	8	89902637	A	C
OSGIN2	8	89909671	A	T
OSGIN2	8	89921207	C	T
OSGIN2	8	89924842	A	G
OSGIN2	8	89925853	T	A
OSGIN2	8	89926413	C	T
OSGIN2	8	89926746	CATTTT	C
OSGIN2	8	89927236	T	C
OTUD1	10	23439541	C	T
OTUD1	10	23440594	G	A
OTUD1	10	23441262	C	T
OTUD1	10	23441567	GT	G
OTUD6B	8	91071196	A	G
OTUD6B	8	91084834	G	A
OTUD6B	8	91086348	T	C
PARP11	12	3809134	G	T
PARP11	12	3809556	A	AT
PARP11	12	3809706	C	A
PIGV	1	26787956	G	A
PIGV	1	26798054	A	G
PJA1	X	69161421	C	A
PJA1	X	69161944	C	T
PJA1	X	69162069	G	A
PJA1	X	69162993	G	A
PLAG1	8	56162371	AT	A
PLAG1	8	56163682	C	T
PLEKHG4	16	67284339	A	G
PLEKHG4	16	67286320	G	A
PMEL	12	55967092	G	A

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PMEL	12	55971915	C	A
PMEL	12	55972376	G	C
PMEL	12	55972675	AT	A
POC5	5	75707853	T	C
POLR2M	15	57715449	C	A
POLR2M	15	57715501	G	T
POLR2M	15	57716884	G	A
POLR2M	15	57716933	C	A
POLR2M	15	57717309	T	C
PRANCR	12	70242570	T	G
PRANCR	12	70242757	T	A
PRANCR	12	70243181	G	T
PRR3	6	30562468	T	C
PRR3	6	30562719	T	C
PSMG3	7	1567623	T	C
PSMG3	7	1569754	G	C
PSMG3	7	1569892	C	T
PSMG3	7	1570052	G	A
PTP4A1	6	63580421	A	G
PTP4A1	6	63582224	TGA	T
PTP4A1	6	63582248	A	G
PTP4A1	6	63583105	G	A
RAB11A	15	65888639	A	G
RAB11A	15	65888694	AAATTTTGAAGTGTT (SEQ ID No: 59)	A
RAB11A	15	65889598	A	C
RAB11A	15	65890673	G	T
RAB11A	15	65891416	C	T
RABL2A	2	113628595	A	G
RABL2A	2	113642619	A	C
RABL2A	2	113642949	C	T
RBM43	2	151248577	C	A
RBM43	2	151249245	A	G
RBM43	2	151250139	G	A
RFC4	3	186791728	G	A
RFXANK	19	19192993	T	C
RFXANK	19	19194090	G	C
RFXANK	19	19196988	C	T
RFXANK	19	19201728	T	C
RGMB	5	98774124	G	A
RCMB	5	98774134	A	C
RGMB	5	98789826	T	G
RGMB	5	98794837	C	G
RGMB	5	98795646	A	G

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RGMB	5	98795801	A	G
RGMB	5	98796179	A	G
ROBO3	11	124876874	T	C
ROBO3	11	124880551	CCGGAGT	C
RPL22L1	3	170865099	C	T
RPL22L1	3	170866275	A	C
RPL22L1	3	170866285	A	G
RPL36	19	5678486	C	T
RPL36	19	5690293	G	A
RPL36	19	5691456	A	G
RPRD1B	20	38033853	C	T
RPRD1B	20	38033884	C	T
RPRD1B	20	38040472	G	A
RPRD1B	20	38090708	G	A
RPSAP9	9	76399003	A	G
RPSAP9	9	76399056	T	C
RRM2B	8	102204606	C	T
RRM2B	8	102204670	G	A
RRM2B	8	102205458	T	C
RRM2B	8	102205467	A	G
RRM2B	8	102206460	A	C
RRM2B	8	102206645	C	G
RRM2B	8	102206856	T	A
RRM2B	8	102207135	T	C
RRM2B	8	102207267	A	C
RRM2B	8	102207401	T	C
RRM2B	8	102238215	C	G
RRM2B	8	102238547	G	C
RUFY4	2	218059372	C	T
RUFY4	2	218059758	C	T
RUFY4	2	218059846	A	G
RUFY4	2	218060426	G	A
RXFP2	13	31795262	G	A
RXFP2	13	31796523	C	T
RXFP2	13	31796624	C	T
SAC3D1	11	65041175	A	C
SAC3D1	11	65041209	AC	A
SAC3D1	11	65041618	T	G
SAC3D1	11	65041661	T	G
SAC3D1	11	65041695	A	G
SCART1	10	133467261	C	T
SCART1	10	133469269	T	G
SCART1	10	133469470	A	G
SCN1B	19	35039833	T	C

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Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SCN1B	19	35039847	GCA	G
SCN1B	19	35039877	A	C
SDK2	17	73335409	C	T
SDK2	17	73335488	T	G
SEMA4C	2	96860327	TACAG	T
SEMA4C	2	96861050	T	A
SEMA4C	2	96861051	C	A
SEMA6A	5	116562715	C	A
SEMA6A	5	116562744	G	A
SEMA6D	15	47730336	C	G
SEMA6D	15	47730384	C	T
SESN1	6	108986507	G	A
SESN1	6	108998702	T	C
SESN1	6	109001351	C	T
SESN1	6	109002316	G	T
SFPQ	1	35176730	A	G
SFPQ	1	35178671	T	C
SFPQ	1	35178884	CA	C
SFPQ	1	35180524	C	T
SFPQ	1	35181642	T	C
SFPQ	1	35182715	C	T
SFPQ	1	35183198	A	G
SFPQ	1	35183225	CTTTTT	C
SFPQ	1	35183562	A	G
SFPQ	1	35184153	TA	T
SFPQ	1	35184209	TA	T
SFPQ	1	35184401	T	C
SFPQ	1	35186007	T	C
SFPQ	1	35192273	G	C
SHLD2P1	10	46621715	T	C
SLC25A15	13	40808575	A	T
SLC25A15	13	40810565	C	T
SLC25A15	13	40811522	C	A
SLC25A15	13	40811764	T	A
SLC25A43	X	119453040	C	T
SLC25A43	X	119453484	C	T
SLC35A2	X	48903910	ATGAT	A
SLC35A2	X	48911594	G	T
SLC40A1	2	189565451	A	G
SLC40A1	2	189580558	C	G
SLC46A3	13	28700208	C	T
SLC46A3	13	28700495	T	C
SLC46A3	13	28700496	T	C
SLC46A3	13	28700965	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SLC46A3	13	28700992	C	T
SLC46A3	13	28718735	A	G
SLC47A1P2	17	19618478	A	T
SLC4A10	2	161965134	C	T
SLC4A10	2	161984623	C	G
SLC4A1AP	2	27664167	C	A
SMAD1	4	145558681	G	T
SMAD1	4	145558740	C	CTT
SNRPG	2	70289345	C	T
SNRPG	2	70289348	A	C
SNRPC	2	70289349	C	A
SOD1	21	31660582	C	G
SOD1	21	31660688	C	G
SOD1	21	31667007	A	G
SPATA5	4	123181053	C	T
SPATA5	4	123181066	A	C
SPATA6L	9	4664829	T	C
SPATA6L	9	4664836	A	T
SPATA6L	9	4664852	A	G
SPIB	19	50428638	T	G
SPIB	19	50428647	A	G
SPIB	19	50428707	G	C
SPIB	19	50429167	C	T
SPIB	19	50430738	G	A
TAF11	6	34883434	C	T
TAF11	6	34887971	G	C
TBRG4	7	45100293	G	A
TBRG4	7	45100320	A	C
TBRG4	7	45101315	C	T
TBRG4	7	45102068	C	T
TBRG4	7	45105471	C	T
TBRG4	7	45109068	G	A
TBRG4	7	45109174	C	A
TBRG4	7	45109258	G	C
TECR	19	14565766	C	T
TGDS	13	94574460	T	A
TGDS	13	94574662	A	G
TM9SF1	14	24195403	T	C
TM9SF1	14	24195525	C	T
TMED8	14	77335088	T	C
TMED8	14	77335311	G	C
TMED8	14	77339033	G	A
TMEM161B-AS1	5	88270566	TA	T
TMEM161B-AS1	5	88285771	A	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TMEM191A	22	20703493	A	G
TMEM191A	22	20704473	G	A
TMEM201	1	9604763	T	C
TMEM201	1	9604764	T	C
TMEM201	1	9613560	G	A
TMEM220	17	10729864	A	G
TMEM220	17	10729928	T	C
TMEM40	3	12733929	C	G
TMEM40	3	12738560	C	T
TOM1L1	17	54961293	A	C
TOM1L1	17	54961384	A	G
TRAF7	16	2172285	C	T
TRAF7	16	2172306	C	T
TRAF7	16	2175563	G	T
TRAF7	16	2177984	G	C
TRAFD1	12	112142267	C	T
TRAFD1	12	112145643	A	C
TRAFD1	12	112152836	A	G
TRAJ8	14	22536186	T	C
TRAV13-2	14	21918274	C	T
TRAV13-2	14	21918484	G	A
TRAV19	14	22007898	AAGGT	A
TRAV19	14	22007905	C	T
TRAV19	14	22007907	C	T
TRAV19	14	22007908	A	C
TRAV29DV5	14	22163321	T	C
TRAV29DV5	14	22163782	T	C
TRBC1	7	142791806	T	C
TRBV25-1	7	142670801	G	A
TRBV6-4	7	142380832	C	A
TRBV6-4	7	142380976	C	T
TRBV6-4	7	142381026	A	C
TRBV6-5	7	142451006	A	C
TRBV6-5	7	142451007	T	C
TRCV9	7	38317248	C	T
TRGV9	7	38317474	T	C
TRIM16L	17	18698090	G	C
TRIM16L	17	18699163	A	G
TRIM16L	17	18735447	G	T
TRIM16L	17	18735714	T	C
TRIM58	1	247864917	G	A
TRIM58	1	247876411	A	G
TRIM58	1	247876716	A	G
TRIM58	1	247876991	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TRIM58	1	247877408	TA	T
TRIM58	1	247877880	T	G
TRIM58	1	247877971	T	A
TRIM58	1	247878115	A	T
TRIM58	1	247878923	T	C
TRIM58	1	247879936	C	T
TRIT1	1	39841193	C	T
TRIT1	1	39841226	T	C
TRMT1L	1	185119565	T	C
TRMT1L	1	185124984	A	G
TSCA10	2	99151405	C	T
TSGA10	2	99154805	G	C
TSGA10	2	99154809	C	T
TSPAN18	11	44929233	G	A
TSPAN18	11	44931175	G	C
TSPAN5	4	98471986	G	A
TSPAN5	4	98472585	T	A
TTC37	5	95464058	T	A
TTC37	5	95464063	T	C
TTC37	5	95464074	A	G
TTC37	5	95464095	T	C
TTC37	5	95464149	A	G
TTC37	5	95464178	C	G
TTC37	5	95464407	AT	A
TTC37	5	95464530	C	T
TTC37	5	95490951	C	A
TTC37	5	95509621	T	C
TUBGCP5	15	22999743	T	C
TUBGCP5	15	23019260	G	A
TUBGCP5	15	23027236	C	A
UMPS	3	124737577	G	A
UMPS	3	124737895	G	C
UMPS	3	124743961	C	T
UMPS	3	124743966	G	A
UMPS	3	124744809	A	T
UMPS	3	124744810	C	T
USP40	2	233477488	A	G
USP40	2	233485923	A	G
VNN1	6	132682205	C	T
VNN1	6	132682726	A	T
VNN1	6	132684678	T	G
VNN1	6	132684920	C	A
VNN1	6	132693274	C	T
WDR36	5	111097143	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
WDR36	5	111103810	A	G
WDR36	5	111120565	C	G
WDR36	5	111121006	A	T
WDR36	5	111125049	T	A
WDR36	5	111127221	A	T
WDR36	5	111127928	T	G
WDR36	5	111127933	T	G
WDR36	5	111128310	T	C
WDR36	5	111128624	C	T
WDR36	5	111128695	A	T
WDR36	5	111129459	C	C
YARS2	12	32747282	T	C
YARS2	12	32755303	C	A
YARS2	12	32755584	G	A
ZBED6CL	7	150329664	T	C
ZBED6CL	7	150330195	C	A
ZBED6CL	7	150330235	T	A
ZBED6CL	7	150331639	G	A
ZBED6CL	7	150331869	A	G
ZBTB6	9	122908312	T	A
ZBTB6	9	122910047	G	A
ZBTB6	9	122910772	T	G
ZC3H8	2	112230930	CTTCTT	C
ZC3H8	2	112233274	C	A
ZFP30	19	37632892	T	C
ZFP30	19	37632978	T	C
ZFP30	19	37633005	T	C
ZFP30	19	37633383	T	C
ZFP30	19	37633446	T	C
ZFP30	19	37633574	G	A
ZFR2	19	3819720	C	A
ZFR2	19	3855479	T	C
ZFY	Y	2935676	T	C
ZFY	Y	2982259	TAAA	T
ZMPSTE24	1	40262857	TA	T
ZMPSTE24	1	40271917	T	C
ZMPSTE24	1	40293392	C	T
ZMPSTE24	1	40293559	A	G
ZNF136	19	12189417	A	G
ZNF136	19	12189438	C	T
ZNF226	19	44165807	T	C
ZNF226	19	44175583	TG	T
ZNF253	19	19892300	A	G
ZNF253	19	19892767	C	G

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Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZNF28	19	52797941	C	T
ZNF28	19	52797992	T	C
ZNF28	19	52798623	ATCC	A
ZNF28	19	52799200	A	G
ZNF28	19	52799484	T	C
ZNF28	19	52800274	A	G
ZNF28	19	52835984	T	C
ZNF28	19	52836029	C	G
ZNF28	19	52838899	T	C
ZNF28	19	52840514	G	A
ZNF28	19	52840526	A	C
ZNF28	19	52840686	T	G
ZNF28	19	52840865	C	G
ZNF28	19	52841448	A	G
ZNF28	19	52849135	A	G
ZNF28	19	52853919	C	T
ZNF28	19	52854268	G	A
ZNF28	19	52854273	C	T
ZNF28	19	52854280	T	G
ZNF33B	10	42583077	A	G
ZNF33B	10	42590065	G	C
ZNF33B	10	42592315	T	C
ZNF358	19	7520801	C	T
ZNF358	19	7520907	G	A
ZNF416	19	57572099	C	T
ZNF416	19	57573562	G	A
ZNF446	19	58478128	A	C
ZNF446	19	58480533	G	A
ZNF461	19	36637269	T	C
ZNF461	19	36637270	T	C
ZNF461	19	36637335	T	C
ZNF461	19	36637587	T	C
ZNF461	19	36666699	T	C
ZNF551	19	57689260	G	T
ZNF551	19	57689992	C	T
ZNF551	19	57690372	TACACAC	T
ZNF561	19	9608016	T	C
ZNF561	19	9608055	TAG	T
ZNF561	19	9608073	G	A
ZNF561	19	9608081	T	C
ZNF561	19	9621174	A	G
ZNF667	19	56440005	C	T
ZNF667	19	56441050	T	G
ZNF667	19	56442216	T	C

Table 12: Monocyte Low IL-10 secretion SNP / INDEL				
Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZNF667	19	56442494	T	C
ZNF699	19	9292201	T	C
ZNF699	19	9297982	G	A
ZNF699	19	9309689	T	C
ZNF700	19	11947521	A	G
ZNF700	19	11947526	G	A
ZNF700	19	11947527	T	A
ZNF700	19	11950456	C	T
ZNF700	19	11950457	G	A
ZNF711	X	85271981	A	G
ZNF711	X	85272460	A	C
ZNF764	16	30555426	G	A
ZNF764	16	30558028	C	T
ZNF813	19	53486721	C	T
ZNF813	19	53490416	G	A
ZNF813	19	53493860	T	C
ZNF813	19	53493925	T	C
ZNF813	19	53494007	T	G
ZNF813	19	53494012	A	G
ZNF813	19	53494567	C	T
ZNF813	19	53495023	CA	C
ZNF813	19	53495251	T	A
ZNF853	7	6623716	C	G
ZNF853	7	6624039	G	A
ZNF862	7	149839125	A	G
ZNF862	7	149839414	G	A
ZNF862	7	149840334	G	A
ZNF862	7	149866045	T	C
ZNF862	7	149866649	G	T
ZNF93	19	19935338	G	A
ZSCAN26	6	28271903	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
UBE2J2	1	1255143	C	T
UBE2J2	1	1256271	A	G
UBE2J2	1	1254109	G	A
UBE2J2	1	1254172	C	T
UBE2J2	1	1254283	G	A
UBE2J2	1	1254681	A	G
UBE2J2	1	1262318	T	C
UBE2J2	1	1254826	G	A
UBE2J2	1	1254827	C	T
TNFRSF14-AS1	1	2556224	C	A
TNFRSF14-AS1	1	2556327	T	C
TNFRSF14-AS1	1	2556714	A	G
TNFRSF14-AS1	1	2551482	T	C
TNFRSF14-AS1	1	2556438	C	T
TNFRSF14-AS1	1	2556444	C	T
THAP3	1	6634867	C	T
THAP3	1	6635184	A	G
THAP3	1	6634920	G	A
THAP3	1	6635063	C	T
THAP3	1	6633037	A	G
THAP3	1	6634514	G	A
THAP3	1	6635271	C	T
THAP3	1	6633156	T	G
THAP3	1	6634453	G	T
THAP3	1	6634454	A	T
THAP3	1	6633042	C	T
MTHFR	1	11790308	T	G
MTHFR	1	11804111	T	A
MTHFR	1	11790870	C	T
MTHFR	1	11803000	G	A
MTHFR	1	11793542	G	C
MTHFR	1	11794400	G	A
MTHFR	1	11803847	C	T
MTHFR	1	11804092	G	A
MTHFR	1	11800626	T	C
MTHFR	1	11796321	G	A
MTHFR	1	11804231	T	C
MTHFR	1	11804245	T	C
MTHFR	1	11804293	T	C
MTHFR	1	11794419	T	G
MTHFR	1	11800786	C	A
MTHFR	1	11804070	A	G
MTHFR	1	11804205	T	C
MTHFR	1	11804321	G	A
MTHFR	1	11804529	T	C
MTHFR	1	11805006	ATTGC	A
MTHFR	1	11805179	C	T
MTHFR	1	11805747	A	G
MTHFR	1	11805759	G	GC

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PADI4	1	17348042	C	A
PADI4	1	17363881	T	C
PADI4	1	17363802	G	A
PADI4	1	17356118	C	T
PADI4	1	17334004	G	C
PADI4	1	17336167	T	C
PADI4	1	17331039	G	A
PADI4	1	17349702	CAA	C
PADI4	1	17354068	C	T
PADI4	1	17331121	T	C
PADI4	1	17354649	G	A
RCAN3	1	24538428	A	G
RCAN3	1	24536153	T	G
RCAN3	1	24536159	A	G
RCAN3	1	24537518	A	G
RCAN3	1	24538426	A	G
RCAN3	1	24538436	A	G
RCAN3	1	24540315	C	G
RCAN3	1	24536795	C	T
RCAN3	1	24536813	AT	A
RCAN3	1	24537617	GA	G
RCAN3	1	24537779	A	G
RCAN3	1	24537780	A	G
RCAN3	1	24538469	A	G
RCAN3	1	24538620	A	G
RCAN3	1	24535975	C	G
SLC9A1	1	27151485	A	G
SLC9A1	1	27155039	A	G
SLC9A1	1	27100305	T	C
SLC9A1	1	27100550	T	C
SLC9A1	1	27099728	A	G
SLC9A1	1	27105341	C	T
SLC9A1	1	27108204	T	C
SLC9A1	1	27108566	T	C
SLC9A1	1	27099136	G	A
SLC9A1	1	27100025	C	T
SLC9A1	1	27154266	A	G
YTHDF2	1	28737047	A	C
YTHDF2	1	28753357	C	A
YTHDF2	1	28769516	TACTCAA	T
YTHDF2	1	28737524	C	T
YTHDF2	1	28753441	A	G
YTHDF2	1	28753654	C	T
YTHDF2	1	28747001	A	G
YTHDF2	1	28754963	CAA	C
YTHDF2	1	28750891	A	G
SH3D21	1	36322287	G	A
SH3D21	1	36328358	G	A
SH3D21	1	36328537	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SH3D21	1	36307804	T	G
SH3D21	1	36310495	A	G
SH3D21	1	36322755	A	C
SH3D21	1	36326477	C	T
SH3D21	1	36321693	G	A
SH3D21	1	36308218	C	G
SH3D21	1	36310494	A	G
SH3D21	1	36328591	C	T
SH3D21	1	36323945	A	G
SH3D21	1	36319669	C	T
SLC2A1	1	42926579	C	G
SLC2A1	1	42929964	C	T
SLC2A1	1	42930743	G	A
SLC2A1	1	42943295	G	A
SLC2A1	1	42929683	G	A
SLC2A1	1	42958848	T	G
SLC2A1	1	42928941	T	C
LRR7	1	70145525	A	T
LRR7	1	70145664	A	G
CTBS	1	84574272	G	A
CTBS	1	84574315	CGCAGCGCCA (SEQ ID No: 60)	C
CTBS	1	84574386	G	A
CTBS	1	84574387	C	A
KYAT3	1	88961219	G	A
KYAT3	1	88982295	T	A
KYAT3	1	88992247	C	G
KYAT3	1	88935930	T	G
KYAT3	1	88950833	T	C
KYAT3	1	88978323	T	A
KYAT3	1	88982037	G	A
KYAT3	1	88986015	T	C
KYAT3	1	88942390	C	A
KYAT3	1	88978814	AT	A
KYAT3	1	88984388	T	C
KYAT3	1	88979868	A	G
KYAT3	1	88980825	C	G
KYAT3	1	88981101	G	A
DDX20	1	111755960	A	G
DDX20	1	111756207	T	C
DDX20	1	111762955	TATG	T
DDX20	1	111766331	T	C
DDX20	1	111766350	G	A
DDX20	1	111766501	C	A
DDX20	1	111766709	T	C
DDX20	1	111767472	CAA	C
DDX20	1	111767304	A	G
DDX20	1	111766160	C	G
NBPF11	1	148126897	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NBPF11	1	148126898	T	C
NBPF11	1	148102606	T	C
NBPF11	1	148102873	T	C
NBPF11	1	148102217	A	G
NBPF11	1	148127977	T	A
NBPF11	1	148102855	T	C
NBPF11	1	148102644	T	C
NBPF11	1	148102870	T	C
NBPF11	1	148103715	C	G
NBPF11	1	148145349	T	C
NBPF11	1	148148340	G	A
NBPF11	1	148102504	T	A
NBPF11	1	148118674	C	A
PI4KB	1	151315696	G	A
PI4KB	1	151302889	C	T
PI4KB	1	151294049	C	T
PI4KB	1	151297388	C	T
PI4KB	1	151297389	T	C
PI4KB	1	151297390	A	T
PI4KB	1	151297391	A	T
PI4KB	1	151297392	A	T
PI4KB	1	151297394	TAC	T
PI4KB	1	151301408	T	A
PI4KB	1	151301250	C	G
PI4KB	1	151297347	AT	A
PI4KB	1	151324960	T	C
PI4KB	1	151292483	C	T
PI4KB	1	151326323	CT	C
PI4KB	1	151304783	T	C
PI4KB	1	151324988	CT	C
LMNA	1	156137743	C	T
LMNA	1	156138487	G	T
LMNA	1	156114969	C	T
LMNA	1	156114810	G	T
LMNA	1	156135237	T	C
LMNA	1	156136394	T	C
LMNA	1	156139185	G	C
LMNA	1	156139471	C	T
LMNA	1	156112239	G	A
LMNA	1	156113677	T	C
LMNA	1	156113705	T	C
LMNA	1	156126626	T	G
LMNA	1	156136137	G	A
LMNA	1	156137072	C	T
LMNA	1	156138228	C	T
LMNA	1	156138257	T	C
ETV3	1	157132133	C	G
ETV3	1	157123857	AC	A
ETV3	1	157132661	G	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ETV3	1	157125617	G	A
MIR181A1HG	1	198855969	C	T
MIR181A1HG	1	198874872	T	A
MIR181A1HG	1	198877868	G	C
MIR181A1HG	1	198898549	G	T
MIR181A1HG	1	198875055	T	C
MIR181A1HG	1	198875062	C	T
MIR181A1HG	1	198878107	A	T
MIR181A1HG	1	198909850	A	C
MIR181A1HG	1	198871805	G	T
MIR181A1HG	1	198870678	A	G
KIF21B	1	200987079	G	A
KIF21B	1	200970514	C	T
KIF21B	1	200972295	C	A
KIF21B	1	200972421	T	C
KIF21B	1	200971052	G	A
KIF21B	1	200972588	G	A
KIF21B	1	200973257	G	A
KIF21B	1	200970381	C	T
KIF21B	1	200971061	C	T
KIF21B	1	200976782	G	A
KIF21B	1	201002225	A	G
KIF21B	1	201023447	G	A
KIF21B	1	201023573	G	A
KIF21B	1	200972627	G	A
KIF21B	1	200972697	C	A
KIF21B	1	200972806	T	C
KIF21B	1	200969534	G	A
KLHL12	1	202919819	T	C
KLHL12	1	202892438	A	G
KLHL12	1	202892335	TCTG	T
KLHL12	1	202927519	CA	C
KLHL12	1	202892507	A	G
KLHL12	1	202892214	A	G
KLHL12	1	202892431	G	A
TAF5L	1	229602489	G	A
TAF5L	1	229602423	T	G
TAF5L	1	229594022	C	T
TAF5L	1	229594030	C	T
TAF5L	1	229594705	G	A
TAF5L	1	229600617	C	T
TAF5L	1	229601480	G	A
TAF5L	1	229602446	C	T
AL390728.6	1	247187685	A	G
AL390728.6	1	247188341	C	A
AL390728.6	1	247188377	T	C
AL390728.6	1	247187388	G	C
AL390728.6	1	247187398	A	T
AL390728.6	1	247188172	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL390728.6	1	247188127	A	G
AL390728.6	1	247187981	T	C
AL390728.6	1	247188288	CA	C
ASB13	10	5638921	G	A
ASB13	10	5639385	T	C
ASB13	10	5639427	A	G
ASB13	10	5638951	T	A
ASB13	10	5639075	C	T
ASB13	10	5638933	A	G
VIM-AS1	10	17215255	TAC	T
VIM-AS1	10	17215306	GC	G
VIM-AS1	10	17218574	C	G
VIM-AS1	10	17228913	A	G
VIM-AS1	10	17229374	C	A
VIM-AS1	10	17229401	G	C
VIM-AS1	10	17222487	T	C
VIM-AS1	10	17222698	T	C
VIM-AS1	10	17228910	G	A
VIM-AS1	10	17221720	C	T
VIM-AS1	10	17222522	C	A
VIM-AS1	10	17217402	T	C
VIM-AS1	10	17217643	C	G
VIM-AS1	10	17229111	G	C
VIM-AS1	10	17216800	C	T
VIM-AS1	10	17214932	C	T
VIM-AS1	10	17217058	A	G
VIM-AS1	10	17229207	G	C
WAC-AS1	10	28523130	A	G
WAC-AS1	10	28523137	C	T
WAC-AS1	10	28523573	GTTTTT	G
WAC-AS1	10	28524640	TCA	T
WAC-AS1	10	28524743	G	C
WAC-AS1	10	28525763	T	C
WAC-AS1	10	28525686	T	C
WAC-AS1	10	28532160	G	A
WAC-AS1	10	28525363	A	G
WAC-AS1	10	28523719	C	T
WAC-AS1	10	28525442	CGTT	C
WAC-AS1	10	28525726	T	C
WAC-AS1	10	28532515	G	A
WAC-AS1	10	28523182	C	T
WAC-AS1	10	28525595	T	C
WAC-AS1	10	28525689	T	C
CCNY	10	35336928	C	T
CCNY	10	35413030	T	C
CCNY	10	35483474	G	A
CCNY	10	35497774	G	A
CCNY	10	35569737	T	C
CCNY	10	35411394	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CCNY	10	35412932	T	C
CCNY	10	35355422	A	G
CCNY	10	35355544	A	C
CCNY	10	35355557	A	G
CCNY	10	35430261	C	T
CCNY	10	35452770	TA	T
CCNY	10	35568072	A	G
CCNY	10	35411907	C	T
CCNY	10	35412848	G	A
CCNY	10	35430729	T	C
CCNY	10	35475131	G	A
CCNY	10	35452556	C	G
EIF4EBP2	10	70419990	C	T
EIF4EBP2	10	70423219	G	A
EIF4EBP2	10	70423258	C	T
EIF4EBP2	10	70427038	G	C
EIF4EBP2	10	70428227	G	A
EIF4EBP2	10	70423941	T	G
EIF4EBP2	10	70404458	C	G
EIF4EBP2	10	70409869	G	A
EIF4EBP2	10	70422354	G	A
EIF4EBP2	10	70426563	C	G
EIF4EBP2	10	70426768	T	C
EIF4EBP2	10	70404307	G	T
EIF4EBP2	10	70417297	T	C
EIF4EBP2	10	70426922	A	G
EIF4EBP2	10	70422046	G	C
EIF4EBP2	10	70422274	A	G
EIF4EBP2	10	70426406	G	A
EIF4EBP2	10	70428433	T	C
EIF4EBP2	10	70425684	G	A
LRMDA	10	75431683	C	A
LRMDA	10	75509170	A	G
LRMDA	10	75579193	A	G
LRMDA	10	76047269	T	C
LRMDA	10	76339271	CAA	C
LRMDA	10	76473618	TA	T
LRMDA	10	75577266	A	G
LRMDA	10	75577862	C	G
LRMDA	10	75578562	G	A
LRMDA	10	75579040	C	A
LRMDA	10	75557036	A	G
LRMDA	10	75557286	C	A
LRMDA	10	75577543	T	C
LRMDA	10	76168640	A	T
LRMDA	10	76173452	A	G
LRMDA	10	76363304	G	T
LRMDA	10	76458170	T	TCACC
LRMDA	10	75528893	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LRMDA	10	75579121	A	T
LRMDA	10	75784620	A	T
LRMDA	10	75488592	G	C
LRMDA	10	75658209	A	G
LRMDA	10	75479505	TA	T
LRMDA	10	76404218	A	G
LRMDA	10	75784667	C	T
LRMDA	10	75699156	A	G
LRMDA	10	75699317	C	T
LRMDA	10	76264603	T	G
LRMDA	10	76372808	A	G
LRMDA	10	76458302	C	T
LRMDA	10	76466707	A	G
LRMDA	10	75579449	A	T
LRMDA	10	75579460	C	A
LINC00863	10	87342956	G	A
LINC00863	10	87342976	C	T
LINC00863	10	87343291	A	G
LINC00863	10	87342925	T	C
LINC00863	10	87343538	T	G
LINC00863	10	87343519	C	T
LINC00863	10	87344743	T	C
LINC00863	10	87343578	A	C
LINC00863	10	87343497	C	A
LINC00863	10	87344056	T	G
FRAT1	10	97320489	CT	C
FRAT1	10	97321360	G	A
FRAT1	10	97320828	C	T
FRAT1	10	97321224	G	T
FRAT1	10	97321114	G	T
FRAT1	10	97321265	G	C
AL355315.1	10	97651033	T	C
AL355315.1	10	97655160	A	G
AL355315.1	10	97663898	A	G
AL355315.1	10	97663991	G	T
AL355315.1	10	97673640	G	A
AL355315.1	10	97673851	C	T
AL355315.1	10	97655141	A	G
AL355315.1	10	97663770	A	G
AL355315.1	10	97645300	T	C
AL355315.1	10	97640889	C	A
AL355315.1	10	97645513	T	A
PI4K2A	10	97674517	G	A
PI4K2A	10	97675730	A	C
PI4K2A	10	97675872	A	G
PI4K2A	10	97675973	A	G
PI4K2A	10	97676112	G	A
PI4K2A	10	97674920	G	GAGG
PI4K2A	10	97675003	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PI4K2A	10	97675249	G	T
PI4K2A	10	97675307	G	A
PI4K2A	10	97675843	G	C
SCD	10	100362430	C	G
SCD	10	100362846	T	C
SCD	10	100363747	C	T
SCD	10	100356554	A	C
SCD	10	100362955	G	A
SCD	10	100361822	A	G
SCD	10	100363286	G	C
SCD	10	100364277	T	C
SFXN3	10	101040586	CT	C
SFXN3	10	101040603	A	G
SFXN3	10	101039205	C	A
SFXN3	10	101038589	T	C
SFXN3	10	101039925	C	A
SFXN3	10	101036062	A	T
SFXN3	10	101039507	C	G
MFSD13A	10	102476221	C	T
MFSD13A	10	102476525	C	T
MFSD13A	10	102476700	C	T
MFSD13A	10	102476930	A	G
MFSD13A	10	102476098	C	A
MFSD13A	10	102476888	G	A
MFSD13A	10	102476724	G	A
MFSD13A	10	102476785	T	C
MFSD13A	10	102476795	C	T
MFSD13A	10	102470028	C	T
MFSD13A	10	102471297	A	G
MFSD13A	10	102476215	G	A
MFSD13A	10	102476519	C	T
SFR1	10	104123007	A	G
SFR1	10	104126056	A	G
SFR1	10	104126348	G	A
SFR1	10	104122081	A	G
SFR1	10	104125767	CT	C
SFR1	10	104123637	A	C
SFR1	10	104122297	A	C
SFR1	10	104122495	G	A
SFR1	10	104125884	G	A
ASRGL1	11	62392454	C	A
ASRGL1	11	62392494	A	T
ASRGL1	11	62392568	CAAAAAAA	C
ASRGL1	11	62393251	C	T
ASRGL1	11	62393257	G	A
WDR74	11	62841205	C	T
WDR74	11	62841013	T	C
WDR74	11	62835511	A	G
WDR74	11	62841711	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
WDR74	11	62841546	G	C
WDR74	11	62834665	T	C
WDR74	11	62834873	G	C
WDR74	11	62835009	A	G
WDR74	11	62835575	G	T
WDR74	11	62839596	A	G
WDR74	11	62840096	G	C
WDR74	11	62839974	A	G
WDR74	11	62841261	G	A
WDR74	11	62841343	G	A
WDR74	11	62841381	G	A
WDR74	11	62841395	A	G
WDR74	11	62841413	A	G
WDR74	11	62841496	G	C
WDR74	11	62841530	C	G
WDR74	11	62841551	T	G
WDR74	11	62841588	C	T
WDR74	11	62841612	C	T
FERMT3	11	64220630	C	T
FERMT3	11	64223524	AC	A
FERMT3	11	64219241	C	A
FERMT3	11	64207523	C	G
FERMT3	11	64222240	(various)	C
FERMT3	11	64210628	T	C
FERMT3	11	64220573	G	A
FERMT3	11	64216297	A	G
FERMT3	11	64222830	G	A
FERMT3	11	64207171	C	T
FERMT3	11	64207494	G	A
FERMT3	11	64222404	A	G
FERMT3	11	64211690	C	T
FERMT3	11	64222690	C	T
FERMT3	11	64207859	C	T
FERMT3	11	64209217	T	A
FERMT3	11	64209227	G	A
MUS81	11	65862461	T	C
MUS81	11	65862463	G	C
MUS81	11	65863890	C	T
MUS81	11	65864737	T	TT
MUS81	11	65864791	G	T
MUS81	11	65863696	C	T
MUS81	11	65864502	G	A
MUS81	11	65866044	T	C
ARRB1	11	75260513	G	T
ARRB1	11	75262992	C	T
ARRB1	11	75283308	G	A
ARRB1	11	75326843	T	C
ARRB1	11	75318061	G	A
ARRB1	11	75318062	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARRB1	11	75260610	G	T
ARRB1	11	75286518	A	G
ARRB1	11	75288384	G	A
ARRB1	11	75318123	C	T
ARRB1	11	75275296	G	A
ARRB1	11	75288616	CTT	C
ARRB1	11	75290449	C	A
ARRB1	11	75318288	T	C
ARRB1	11	75338010	G	A
ARRB1	11	75261349	C	T
ARRB1	11	75264570	A	G
ARRB1	11	75264832	C	T
ARRB1	11	75264941	C	T
ARRB1	11	75281104	C	T
ARRB1	11	75261181	CGT	C
TAGLN	11	117206318	A	G
TAGLN	11	117200733	C	T
TAGLN	11	117205620	T	C
TAGLN	11	117205848	A	G
TAGLN	11	117205992	T	C
TAGLN	11	117201809	C	T
TAGLN	11	117204332	C	T
TAGLN	11	117206256	C	A
CEP164	11	117351876	G	A
CEP164	11	117412084	G	T
CEP164	11	117412960	T	C
CEP164	11	117397168	A	G
CEP164	11	117351942	A	AA
CEP164	11	117413092	C	T
CEP164	11	117412375	C	T
CEP164	11	117381773	T	C
CEP164	11	117395596	C	G
CEP164	11	117412263	C	G
CEP164	11	117412755	C	T
CEP164	11	117412910	A	G
CEP164	11	117412918	A	G
PHLDB1	11	118616958	T	C
PHLDB1	11	118651633	A	G
PHLDB1	11	118657756	T	G
PHLDB1	11	118631455	C	T
PHLDB1	11	118657714	C	T
PHLDB1	11	118635684	T	C
PHLDB1	11	118628753	C	G
PHLDB1	11	118638950	A	G
PHLDB1	11	118615352	T	C
PHLDB1	11	118615610	C	T
PHLDB1	11	118648037	C	T
PHLDB1	11	118651785	CA	C
PHLDB1	11	118628678	C	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PHLDB1	11	118646019	A	G
PHLDB1	11	118646056	C	T
PHLDB1	11	118646185	G	A
PHLDB1	11	118615395	G	A
PHLDB1	11	118643907	C	T
PHLDB1	11	118607689	C	A
PHLDB1	11	118649272	T	C
PHLDB1	11	118650498	G	A
RNF26	11	119334776	CG	C
RNF26	11	119335665	G	A
RNF26	11	119336799	T	G
RNF26	11	119335120	A	G
RNF26	11	119337125	TC	T
RNF26	11	119335025	T	C
RNF26	11	119336631	G	A
RNF26	11	119336736	C	T
TAPBPL	12	6453587	A	G
TAPBPL	12	6453644	A	G
TAPBPL	12	6458741	C	T
TAPBPL	12	6462533	G	A
TAPBPL	12	6462882	A	G
TAPBPL	12	6453119	C	T
TAPBPL	12	6453127	C	T
TAPBPL	12	6453657	C	T
TAPBPL	12	6453670	G	A
TAPBPL	12	6462481	T	C
TAPBPL	12	6463025	T	C
TAPBPL	12	6463383	C	T
TAPBPL	12	6463395	A	T
TAPBPL	12	6465878	G	T
TAPBPL	12	6459896	A	G
TAPBPL	12	6453956	GGT	G
TAPBPL	12	6454089	C	G
TAPBPL	12	6461800	A	G
TAPBPL	12	6463421	G	C
TAPBPL	12	6463895	A	G
TAPBPL	12	6464550	T	C
TAPBPL	12	6464583	C	T
TAPBPL	12	6462900	T	C
SPSB2	12	6883808	A	G
SPSB2	12	6883871	A	C
SPSB2	12	6884725	C	T
SPSB2	12	6873183	A	C
SPSB2	12	6873288	G	A
SPSB2	12	6884489	G	A
SPSB2	12	6884494	C	G
SPSB2	12	6884712	A	G
SPSB2	12	6873638	G	A
SPSB2	12	6878068	A	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SPSB2	12	6878171	G	C
SPSB2	12	6878427	A	T
AC068775.1	12	10418366	C	G
AC068775.1	12	10419945	T	C
AC068775.1	12	10420383	A	G
AC068775.1	12	10433936	T	G
AC068775.1	12	10434512	A	G
AC068775.1	12	10435819	A	G
AC068775.1	12	10435840	G	A
AC068775.1	12	10435855	A	G
AC068775.1	12	10418443	A	G
AC068775.1	12	10418492	T	G
AC068775.1	12	10419059	C	T
AC068775.1	12	10420495	C	G
AC068775.1	12	10420496	A	G
AC068775.1	12	10430698	G	A
AC068775.1	12	10430716	C	T
AC068775.1	12	10431012	C	T
AC068775.1	12	10431097	C	T
AC068775.1	12	10435845	G	C
AC068775.1	12	10435931	C	G
AC068775.1	12	10412514	T	C
AC068775.1	12	10433951	G	C
AC068775.1	12	10430832	C	T
AC068775.1	12	10433887	A	G
FAR2	12	29171496	C	T
FAR2	12	29171572	G	A
FAR2	12	29172079	A	C
FAR2	12	29172194	C	T
FAR2	12	29241487	G	T
FAR2	12	29241652	C	T
FAR2	12	29172069	G	C
FAR2	12	29333812	T	C
FAR2	12	29241258	T	C
FAR2	12	29170749	CCTCTCTCT	C
FAR2	12	29171800	C	T
FAR2	12	29172267	A	G
FAR2	12	29199526	G	A
FAR2	12	29172108	G	A
FAR2	12	29199702	T	TA
FAR2	12	29199753	C	A
FAR2	12	29241669	C	A
AC023509.1	12	53455371	G	A
AC023509.1	12	53455372	T	A
AC023509.1	12	53455374	A	G
AC023509.1	12	53455377	C	G
AC023509.1	12	53447501	A	G
AC023509.1	12	53460114	G	A
FRS2	12	69577694	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FRS2	12	69577720	C	T
FRS2	12	69577933	C	T
FRS2	12	69579412	CA	C
FRS2	12	69578601	G	A
FRS2	12	69540395	G	T
FRS2	12	69518982	A	G
FRS2	12	69575230	G	T
FRS2	12	69489654	G	A
FRS2	12	69544754	G	A
FRS2	12	69474327	G	A
FRS2	12	69489549	A	G
FRS2	12	69489576	A	G
FRS2	12	69507796	G	A
FRS2	12	69541611	A	G
FRS2	12	69551141	C	T
FRS2	12	69577715	T	A
FRS2	12	69574082	G	A
FRS2	12	69501844	T	A
FRS2	12	69501845	T	G
FRS2	12	69579227	C	T
FRS2	12	69516484	C	T
FRS2	12	69540336	A	C
FRS2	12	69579612	T	C
FRS2	12	69572679	C	T
DUSP6	12	89348127	T	A
DUSP6	12	89348954	T	C
DUSP6	12	89349837	A	G
DUSP6	12	89350996	A	C
DUSP6	12	89351216	G	A
DUSP6	12	89351700	C	A
DUSP6	12	89348451	TAGTC	T
DUSP6	12	89348530	G	A
DUSP6	12	89348531	T	A
DUSP6	12	89349812	G	A
DUSP6	12	89350469	T	G
DUSP6	12	89351049	A	G
DUSP6	12	89350044	T	C
DUSP6	12	89350144	C	A
DUSP6	12	89350271	C	A
DUSP6	12	89351138	A	T
DUSP6	12	89351239	C	T
DUSP6	12	89350037	T	C
DUSP6	12	89347934	G	A
DUSP6	12	89347661	A	G
DUSP6	12	89351342	T	C
POC1B	12	89519546	G	A
POC1B	12	89520365	T	G
POC1B	12	89523034	C	T
POC1B	12	89521103	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
POC1B	12	89521106	A	T
POC1B	12	89521109	A	T
POC1B	12	89519642	C	T
POC1B	12	89520484	T	C
POC1B	12	89521772	C	G
POC1B	12	89520247	G	A
POC1B	12	89522129	G	A
POC1B	12	89476052	T	C
POC1B	12	89476187	A	G
POC1B	12	89480348	G	A
POC1B	12	89523741	A	G
POC1B	12	89519839	T	A
POC1B	12	89519856	T	C
POC1B	12	89525791	C	T
TCP11L2	12	106311196	G	A
TCP11L2	12	106346762	A	G
TCP11L2	12	106346849	G	A
TCP11L2	12	106325780	G	A
TCP11L2	12	106334864	A	G
TCP11L2	12	106314878	G	T
TCP11L2	12	106329607	C	T
TCP11L2	12	106316112	CT	C
OAS1	12	112911065	G	A
OAS1	12	112919388	G	A
OAS1	12	112919637	G	A
OAS1	12	112919404	G	A
OAS1	12	112919432	G	C
RBM19	12	113822358	A	G
RBM19	12	113817190	T	C
RBM19	12	113844691	C	T
RBM19	12	113940094	G	C
RBM19	12	113822420	C	T
RBM19	12	113822801	G	C
RBM19	12	113940080	G	C
RBM19	12	113937082	T	C
RBM19	12	113945854	C	T
RBM19	12	113940072	T	C
RBM19	12	113822435	C	T
RBM19	12	113832330	C	T
RBM19	12	113920644	C	T
RBM19	12	113940030	A	G
RBM19	12	113945846	C	T
RBM19	12	113948834	A	G
RBM19	12	113959387	C	T
RBM19	12	113823248	G	A
RBM19	12	113940067	CAA	C
ACADS	12	120737096	T	C
ACADS	12	120738280	G	A
ACADS	12	120738876	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ACADS	12	120739469	G	C
ACADS	12	120739975	A	G
ACADS	12	120738653	A	C
ANKLE2	12	132730003	C	T
ANKLE2	12	132754873	G	C
ANKLE2	12	132735302	C	G
ANKLE2	12	132735358	T	C
ANKLE2	12	132737879	T	C
ANKLE2	12	132754951	G	A
ANKLE2	12	132761105	C	T
ANKLE2	12	132761219	A	G
ANKLE2	12	132727017	C	T
ANKLE2	12	132758661	T	C
ANKLE2	12	132735423	G	T
ANKLE2	12	132738341	C	T
ANKLE2	12	132727387	C	G
ANKLE2	12	132730124	C	T
ANKLE2	12	132737203	C	G
ANKLE2	12	132743381	T	A
ANKLE2	12	132743455	T	G
ANKLE2	12	132754778	G	A
ANKLE2	12	132758563	C	A
ANKLE2	12	132737853	T	C
ANKLE2	12	132738059	G	C
ANKLE2	12	132730136	C	T
TPTE2P5	13	40919452	G	C
TPTE2P5	13	40874369	A	G
TPTE2P5	13	40874424	G	A
TPTE2P5	13	40874427	A	AG
TPTE2P5	13	40874576	TC	T
TPTE2P5	13	40919533	T	C
TPTE2P5	13	40874811	A	G
TPTE2P5	13	40874859	C	G
TPTE2P5	13	40874863	G	A
TPTE2P5	13	40875010	T	C
TPTE2P5	13	40875172	G	A
TPTE2P5	13	40875193	G	A
TPTE2P5	13	40875216	A	G
TPTE2P5	13	40877030	T	C
TPTE2P5	13	40880628	G	A
TPTE2P5	13	40880648	C	C
TPTE2P5	13	40880800	C	T
TPTE2P5	13	40880860	A	G
NAXD	13	110638697	T	C
NAXD	13	110638900	G	A
NAXD	13	110638909	G	A
NAXD	13	110638912	CCT	C
NAXD	13	110639697	A	G
NAXD	13	110639294	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NAXD	13	110638533	G	A
NAXD	13	110639471	C	T
NAXD	13	110639192	G	A
NAXD	13	110639608	C	T
NAXD	13	110638871	G	T
PNP	14	20476855	C	T
PNP	14	20472356	C	T
PNP	14	20472447	G	A
PNP	14	20472467	C	T
PNP	14	20474292	T	G
PNP	14	20474585	A	G
PNP	14	20470092	A	C
PNP	14	20473904	T	C
PNP	14	20473454	A	G
PNP	14	20473799	G	C
PNP	14	20473931	G	A
PNP	14	20474594	T	C
PNP	14	20474597	G	A
PNP	14	20476410	G	A
MAPK1IP1L	14	55057812	A	G
MAPK1IP1L	14	55066717	C	T
MAPK1IP1L	14	55067652	C	T
MAPK1IP1L	14	55067748	A	G
MAPK1IP1L	14	55059383	A	G
MAPK1IP1L	14	55063402	T	C
MAPK1IP1L	14	55067205	ATT	A
MAPK1IP1L	14	55058871	C	A
MAPK1IP1L	14	55059272	T	G
MAPK1IP1L	14	55059714	A	G
MAPK1IP1L	14	55057315	T	C
MAPK1IP1L	14	55058404	T	C
MAPK1IP1L	14	55059092	G	C
MAPK1IP1L	14	55068792	T	C
MAPK1IP1L	14	55066900	AT	A
MAPK1IP1L	14	55069688	T	G
MAPK1IP1L	14	55057702	A	G
PELI2	14	56231808	G	A
PELI2	14	56299028	A	G
PELI2	14	56299376	T	G
PELI2	14	56259148	G	A
PELI2	14	56205072	T	C
PELI2	14	56231829	T	G
PELI2	14	56205205	C	T
PELI2	14	56220337	C	T
PELI2	14	56280297	T	A
PELI2	14	56205008	C	T
PELI2	14	56205320	A	G
PELI2	14	56258492	A	G
PELI2	14	56258580	TA	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PELI2	14	56230064	G	T
PELI2	14	56231935	C	T
PELI2	14	56232028	C	C
PELI2	14	56296917	C	T
PELI2	14	56296986	G	T
PELI2	14	56204603	C	T
PELI2	14	56220240	T	C
PELI2	14	56226085	A	AA
PELI2	14	56231621	A	T
PELI2	14	56232071	C	A
PELI2	14	56259240	G	A
PELI2	14	56259255	G	A
PELI2	14	56269449	GA	G
ZBTB25	14	64481771	T	A
ZBTB25	14	64482222	A	G
ZBTB25	14	64482235	A	G
ZBTB25	14	64482478	A	C
ZBTB25	14	64486541	G	A
ZBTB25	14	64504441	T	C
ZBTB25	14	64469002	C	T
ZBTB25	14	64487469	C	T
ZBTB25	14	64503744	C	A
ZBTB25	14	64483083	A	G
ZBTB25	14	64482973	T	A
ZBTB25	14	64483146	G	A
ZBTB25	14	64485337	C	T
ZBTB25	14	64502507	C	T
AC005520.1	14	73929785	G	C
AC005520.1	14	73911058	T	G
AC005520.1	14	73922205	T	C
AC005520.1	14	73929728	G	C
AC005520.1	14	73910959	A	G
AC005520.1	14	73889246	T	C
AC005520.1	14	73889571	C	G
AC005520.1	14	73910905	G	A
AC005520.1	14	73929731	C	T
AC005520.1	14	73911000	T	A
AC005520.1	14	73918808	T	C
AC005520.1	14	73929813	T	TA
AC005520.1	14	73901971	T	C
IRF2BPL	14	77027304	A	G
IRF2BPL	14	77027418	TTGCTGC	T
IRF2BPL	14	77027445	C	T
IRF2BPL	14	77028339	G	A
IRF2BPL	14	77026548	G	A
IRF2BPL	14	77027788	G	A
IRF2BPL	14	77027532	T	C
IRF2BPL	14	77027448	CTGT	C
DGLUCY	14	91204780	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DGLUCY	14	91225010	T	C
DGLUCY	14	91225127	G	A
DGLUCY	14	91224820	C	T
DGLUCY	14	91170051	C	T
DGLUCY	14	91149242	T	C
ASB2	14	93934494	TG	T
ASB2	14	93934756	C	T
ASB2	14	93958309	G	C
ASB2	14	93939525	G	C
ASB2	14	93951075	G	A
ASB2	14	93951195	A	G
ASB2	14	93951240	G	A
ASB2	14	93934560	G	A
ASB2	14	93939750	A	C
ASB2	14	93953475	G	T
ASB2	14	93956000	A	G
ASB2	14	93957576	G	T
ASB2	14	93957690	T	G
NIPA2	15	22855497	C	T
NIPA2	15	22855500	G	A
NIPA2	15	22858272	C	T
NIPA2	15	22839066	C	A
NIPA2	15	22839764	A	G
NIPA2	15	22866845	TAAGA	T
NIPA2	15	22867687	A	AG
NIPA2	15	22867866	C	T
NIPA2	15	22868175	T	G
NIPA2	15	22847024	C	T
NIPA2	15	22851830	G	A
NIPA2	15	22852374	C	G
NIPA2	15	22852582	T	A
NIPA2	15	22852646	A	G
NIPA2	15	22857737	C	T
NIPA2	15	22868111	C	T
NIPA2	15	22868260	G	A
NIPA2	15	22839090	C	T
NIPA2	15	22848990	T	C
NIPA2	15	22852702	C	G
NIPA2	15	22855248	TA	T
NIPA2	15	22866361	G	T
NIPA2	15	22838733	C	T
NIPA2	15	22858566	G	A
NIPA2	15	22855331	C	T
NIPA2	15	22857412	G	C
NIPA2	15	22839762	T	TT
NIPA2	15	22844446	C	T
NIPA2	15	22849067	C	G
NIPA2	15	22851674	C	T
NIPA2	15	22866790	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NIPA2	15	22848773	C	T
NIPA2	15	22857363	G	A
NIPA2	15	22862558	G	A
NIPA2	15	22867607	A	G
NIPA2	15	22867643	C	T
NIPA2	15	22867687	A	AT
NIPA2	15	22868079	G	A
FMN1	15	33035670	T	C
FMN1	15	33129877	C	T
FMN1	15	33024267	T	C
FMN1	15	33145861	A	G
FMN1	15	33145899	G	T
FMN1	15	33033609	T	G
FMN1	15	33033643	G	A
FMN1	15	33070366	G	A
FMN1	15	33080367	T	G
FMN1	15	33145958	T	C
FMN1	15	32809956	T	G
FMN1	15	32821722	T	C
FMN1	15	32821804	T	A
FMN1	15	32822237	T	C
FMN1	15	32848755	C	T
FMN1	15	32849134	T	C
FMN1	15	32849741	T	C
FMN1	15	32880104	T	C
FMN1	15	33024391	C	T
FMN1	15	32770138	A	G
FMN1	15	32770409	CAT	C
FMN1	15	33080283	C	G
FMN1	15	32980716	A	G
FMN1	15	33105696	T	A
INAFM2	15	40324923	G	C
INAFM2	15	40323728	G	A
INAFM2	15	40324235	C	T
INAFM2	15	40325899	C	T
INAFM2	15	40325008	C	T
INAFM2	15	40325213	T	C
INAFM2	15	40325312	TG	T
INAFM2	15	40326412	G	C
INAFM2	15	40324541	G	A
SPINT1	15	40856963	C	C
SPINT1	15	40857481	A	G
SPINT1	15	40857567	A	G
SPINT1	15	40856001	C	T
SPINT1	15	40857373	G	A
CHP1	15	41272195	A	G
CHP1	15	41272212	G	A
CHP1	15	41281414	C	A
CHP1	15	41239529	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CHP1	15	41272982	A	G
CHP1	15	41272309	T	A
CHP1	15	41279411	C	T
CHP1	15	41279415	C	T
CHP1	15	41281149	G	A
CHP1	15	41281853	C	T
ARID3B	15	74596957	C	T
ARID3B	15	74597015	T	C
ARID3B	15	74574868	A	G
ARID3B	15	74595855	A	G
ARID3B	15	74596154	A	C
ARID3B	15	74596822	C	T
ARID3B	15	74543975	A	G
ARID3B	15	74577212	A	G
ARID3B	15	74579013	G	A
ARID3B	15	74596795	GT	G
ARID3B	15	74597307	T	G
ARID3B	15	74598013	G	A
TLNRD1	15	81002433	G	C
TLNRD1	15	81001003	C	G
TLNRD1	15	81003639	C	G
TLNRD1	15	81003664	C	G
TLNRD1	15	81004273	G	A
TLNRD1	15	81004537	C	T
TLNRD1	15	81004895	C	T
TLNRD1	15	81005079	A	G
TLNRD1	15	81005185	T	A
TLNRD1	15	81005232	ACTT	A
TLNRD1	15	81002335	A	G
TLNRD1	15	81004622	A	C
TLNRD1	15	81005686	T	C
MFGE8	15	88907315	C	T
MFGE8	15	88899201	C	G
MFGE8	15	88898947	C	T
MFGE8	15	88899235	G	C
MFGE8	15	88899375	C	T
MFGE8	15	88907356	G	T
MFGE8	15	88913313	G	T
MFGE8	15	88899157	C	G
ARPIN-AP3S2	15	89896728	G	A
ARPIN-AP3S2	15	89901407	A	C
ARPIN-AP3S2	15	89901449	G	T
ARPIN-AP3S2	15	89897808	T	C
ARPIN-AP3S2	15	89898638	A	G
ARPIN-AP3S2	15	89898719	CT	C
ARPIN-AP3S2	15	89899181	T	C
ARPIN-AP3S2	15	89899908	T	C
ARPIN-AP3S2	15	89899180	T	C
ARPIN-AP3S2	15	89899156	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARPIN-AP3S2	15	89897255	A	C
ARPIN-AP3S2	15	89897257	T	G
ARPIN-AP3S2	15	89899222	T	C
ARPIN-AP3S2	15	89899260	T	C
ARPIN-AP3S2	15	89897250	T	C
ARPIN-AP3S2	15	89897428	T	C
ARPIN-AP3S2	15	89898558	G	A
PGAP6	16	371723	A	C
PGAP6	16	376432	T	C
PGAP6	16	376476	T	C
PGAP6	16	377479	T	C
PGAP6	16	377516	T	C
PGAP6	16	377784	G	A
PGAP6	16	377820	C	T
PGAP6	16	371912	G	A
PGAP6	16	380292	C	G
PGAP6	16	380304	T	C
PGAP6	16	373555	G	A
PGAP6	16	372412	G	A
PGAP6	16	377435	G	A
PGAP6	16	379951	T	C
PGAP6	16	381702	C	A
PGAP6	16	374277	G	A
PGAP6	16	376167	C	T
UNKL	16	1414635	A	C
UNKL	16	1364886	A	G
UNKL	16	1397277	A	G
UNKL	16	1364497	C	T
UNKL	16	1364660	C	T
UNKL	16	1364667	TG	T
UNKL	16	1364829	C	T
UNKL	16	1365330	C	T
UNKL	16	1367190	G	A
UNKL	16	1364293	C	T
ZNF598	16	1998825	C	G
ZNF598	16	1999002	A	T
ZNF598	16	2009620	GC	G
ZNF598	16	1999639	A	G
ZNF598	16	1998795	C	T
ZNF598	16	1999848	T	C
ZNF598	16	2000191	C	T
ZNF598	16	2001059	T	A
ZNF598	16	2009697	T	G
ZNF598	16	2009707	T	G
ZNF598	16	2009709	T	G
ZNF598	16	1999727	C	T
ZNF598	16	1999881	G	GTCC
TSC2	16	2088883	A	G
TSC2	16	2088868	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TSC2	16	2089126	A	T
TSC2	16	2088268	T	C
TSC2	16	2088583	G	C
TSC2	16	2088881	(various)	G
TSC2	16	2088669	TAA	T
TSC2	16	2065480	C	T
TSC2	16	2086865	C	T
TSC2	16	2088866	C	T
TSC2	16	2084993	C	T
ALG1	16	5082635	C	T
ALG1	16	5078816	G	A
ALG1	16	5084445	A	G
ALG1	16	5085379	A	G
ALG1	16	5084773	T	A
ALG1	16	5078856	G	C
ZNF48	16	30378869	A	G
ZNF48	16	30378870	C	G
ZNF48	16	30382339	G	A
ZNF48	16	30399124	C	T
ZNF48	16	30381826	C	A
ZNF48	16	30380354	T	C
ZNF48	16	30380399	T	C
ZNF48	16	30380404	T	C
ZNF48	16	30380426	T	C
ZNF48	16	30380430	T	C
ZNF48	16	30380687	T	C
ZNF48	16	30380734	T	C
ZNF48	16	30380756	T	C
ZNF48	16	30380778	A	G
AC135050.3	16	31044035	A	G
AC135050.3	16	31045338	C	A
AC135050.3	16	31043286	C	T
AC135050.3	16	31044652	A	G
AC135050.3	16	31044715	A	G
AC135050.3	16	31045112	A	G
AC135050.3	16	31046314	A	G
AC135050.3	16	31043860	A	G
AC135050.3	16	31044176	CA	C
ADGRG3	16	57688954	C	T
ADGRG3	16	57688416	C	T
ADGRG3	16	57688921	C	T
ADGRG3	16	57681843	T	A
ADGRG3	16	57688664	T	A
ADGRG3	16	57689267	G	A
ADGRG3	16	57689285	A	G
ADGRG3	16	57684413	G	A
ADGRG3	16	57688722	A	G
ADGRG3	16	57689136	G	C
ADGRG3	16	57689165	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PDPR	16	70118166	T	C
PDPR	16	70157430	T	C
PDPR	16	70157663	A	G
PDPR	16	70161570	G	A
PDPR	16	70162281	A	G
PDPR	16	70162283	T	G
PDPR	16	70161281	CA	C
PDPR	16	70162064	T	G
PDPR	16	70157258	C	T
PDPR	16	70159571	G	C
PDPR	16	70159711	C	T
PDPR	16	70161479	G	A
PDPR	16	70158110	C	T
PDPR	16	70160988	A	C
PDPR	16	70162088	C	A
PDPR	16	70118337	G	T
PDPR	16	70118361	A	G
PDPR	16	70162374	A	G
PDPR	16	70116560	A	T
PDPR	16	70127360	T	C
PDPR	16	70156498	C	T
PDPR	16	70160606	C	T
PDPR	16	70160761	G	A
PDPR	16	70160784	G	T
PDPR	16	70161678	C	G
PDPR	16	70161221	C	T
PDPR	16	70157334	G	A
PDPR	16	70161655	C	T
PDPR	16	70157126	T	G
PDPR	16	70157215	A	G
PDPR	16	70160706	G	A
PDPR	16	70160740	G	A
PDPR	16	70157653	G	A
PDPR	16	70159583	G	A
PDPR	16	70157320	G	A
ATXN1L	16	71852627	T	A
ATXN1L	16	71855270	C	T
ATXN1L	16	71856586	C	G
ATXN1L	16	71856647	G	A
ATXN1L	16	71853478	A	G
ATXN1L	16	71849257	A	T
ATXN1L	16	71848690	TA	T
ATXN1L	16	71848957	G	A
ATXN1L	16	71851520	A	G
ATXN1L	16	71848460	G	C
DHX38	16	72096304	C	G
DHX38	16	72112542	C	G
DHX38	16	72112671	T	C
DHX38	16	72096226	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DHX38	16	72101115	T	C
DHX38	16	72096916	C	A
DHX38	16	72098457	C	T
DHX38	16	72103662	G	A
DHX38	16	72105285	C	A
DHX38	16	72104213	G	T
DHX38	16	72097020	C	T
CENPN	16	81028222	G	A
CENPN	16	81022608	T	C
CENPN	16	81030782	A	G
CENPN	16	81030835	A	G
CENPN	16	81030929	A	G
CENPN	16	81031024	A	G
CENPN	16	81031097	G	A
CENPN	16	81030884	A	G
CENPN	16	81030902	A	G
CENPN	16	81030969	A	G
CENPN	16	81022836	T	G
CENPN	16	81030580	C	G
CENPN	16	81031454	A	G
CENPN	16	81030691	G	C
DNAAF1	16	84176209	C	G
DNAAF1	16	84177877	C	T
DNAAF1	16	84178425	A	C
DNAAF1	16	84178112	C	T
DNAAF1	16	84176132	T	C
DNAAF1	16	84176210	T	C
DNAAF1	16	84176258	G	C
DNAAF1	16	84178363	A	C
DNAAF1	16	84176566	T	G
DNAAF1	16	84177143	T	C
DNAAF1	16	84177330	C	T
DNAAF1	16	84178502	C	T
DNAAF1	16	84178129	A	C
DNAAF1	16	84178182	G	C
DNAAF1	16	84176028	C	G
DNAAF1	16	84177859	T	C
DNAAF1	16	84176082	G	A
DNAAF1	16	84178171	G	C
DNAAF1	16	84178201	TC	T
DEF8	16	89966454	C	T
DEF8	16	89967030	G	A
DEF8	16	89959232	G	C
DEF8	16	89954358	C	T
DEF8	16	89950155	C	T
DEF8	16	89966147	C	T
DEF8	16	89966149	G	T
DEF8	16	89965888	T	G
DEF8	16	89966825	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DEF8	16	89966847	C	G
DEF8	16	89967422	C	G
DEF8	16	89967502	C	A
DEF8	16	89967709	A	G
DEF8	16	89966285	C	T
DEF8	16	89966368	A	G
INPP5K	17	1494976	G	A
INPP5K	17	1515126	T	C
INPP5K	17	1516559	C	A
INPP5K	17	1495012	C	A
INPP5K	17	1515134	T	C
INPP5K	17	1495006	C	A
INPP5K	17	1496314	C	T
INPP5K	17	1494946	G	A
INPP5K	17	1496690	C	T
INPP5K	17	1516111	T	A
INPP5K	17	1494679	C	T
INPP5K	17	1494965	C	T
INPP5K	17	1496364	G	A
INPP5K	17	1509161	GC	G
INPP5K	17	1495118	G	A
INPP5K	17	1495634	C	A
RAP1GAP2	17	3037426	C	A
RAP1GAP2	17	3026098	G	A
RAP1GAP2	17	3026380	T	C
RAP1GAP2	17	3027045	G	A
RAP1GAP2	17	3037289	G	A
RAP1GAP2	17	3037465	A	G
RAP1GAP2	17	3033476	T	C
RAP1GAP2	17	2965641	T	C
RAP1GAP2	17	3035239	T	C
RAP1GAP2	17	3035331	C	T
RAP1GAP2	17	3035570	A	G
RAP1GAP2	17	3036145	A	G
RAP1GAP2	17	3036288	G	A
RAP1GAP2	17	3036488	T	C
RAP1GAP2	17	3036767	A	G
RAP1GAP2	17	3037368	C	T
RAP1GAP2	17	3033490	G	C
RAP1GAP2	17	3035347	C	T
RAP1GAP2	17	3035776	C	A
RAP1GAP2	17	3036400	T	C
RAP1GAP2	17	3036687	A	G
RAP1GAP2	17	3036890	A	C
ITGAE	17	3729542	G	A
ITGAE	17	3794194	G	A
ITGAE	17	3797445	T	G
ITGAE	17	3765173	C	G
ITGAE	17	3765218	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ITGAE	17	3794670	C	T
ITGAE	17	3798294	T	C
ITGAE	17	3794677	T	C
ATP2A3	17	3924208	T	G
ATP2A3	17	3936391	G	A
ATP2A3	17	3937634	A	G
ATP2A3	17	3942633	A	G
ATP2A3	17	3943508	A	G
ATP2A3	17	3944719	A	C
ATP2A3	17	3961148	G	A
ATP2A3	17	3941051	G	A
ATP2A3	17	3925408	T	C
ATP2A3	17	3941105	G	A
ATP2A3	17	3941493	C	G
ATP2A3	17	3964277	A	G
ATP2A3	17	3924797	G	A
ATP2A3	17	3924792	C	G
ATP2A3	17	3931564	C	G
ATP2A3	17	3956071	G	A
ATP2A3	17	3956131	T	C
ATP2A3	17	3959165	T	C
ATP2A3	17	3963736	C	A
ATP2A3	17	3964024	G	A
ATP2A3	17	3933933	TTC	T
ATP2A3	17	3933993	A	G
ATP2A3	17	3955672	G	A
ATP2A3	17	3936821	G	C
ATP2A3	17	3936822	G	A
ATP2A3	17	3936936	C	T
ATP2A3	17	3931424	A	G
ATP2A3	17	3931561	A	G
ATP2A3	17	3931565	G	A
ATP2A3	17	3931566	A	G
ATP2A3	17	3934349	A	G
ATP2A3	17	3964303	G	A
CLEC10A	17	7075860	A	G
CLEC10A	17	7078034	G	C
CLEC10A	17	7078078	A	G
CLEC10A	17	7078806	T	C
CLEC10A	17	7075000	A	G
CLEC10A	17	7076786	C	A
CLEC10A	17	7076954	C	T
CLEC10A	17	7080148	A	G
CLEC10A	17	7080210	A	C
CLEC10A	17	7080186	G	A
CLEC10A	17	7075001	G	A
CLEC10A	17	7074859	A	C
TP53	17	7685459	T	TG
TP53	17	7668836	GA	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TP53	17	7676154	G	C
TP53	17	7666380	A	C
TP53	17	7668783	C	T
TP53	17	7685457	T	C
TP53	17	7685993	G	C
TP53	17	7686806	A	G
USP22	17	21002832	G	C
USP22	17	21002938	C	T
USP22	17	21002944	A	G
USP22	17	21021210	G	A
USP22	17	21007891	G	T
USP22	17	21002780	C	T
USP22	17	21006528	C	A
USP22	17	21006597	T	C
USP22	17	21006677	G	T
USP22	17	21002683	G	A
USP22	17	21002959	G	GT
USP22	17	21010843	G	A
MAP2K3	17	21295093	T	C
MAP2K3	17	21300026	C	G
MAP2K3	17	21300954	T	C
MAP2K3	17	21312982	A	C
MAP2K3	17	21292012	T	A
MAP2K3	17	21298130	G	A
MAP2K3	17	21299472	C	A
MAP2K3	17	21311608	(various)	C
MAP2K3	17	21284787	C	T
MAP2K3	17	21311892	C	T
MAP2K3	17	21286286	T	G
MAP2K3	17	21291768	A	C
MAP2K3	17	21292359	A	G
MAP2K3	17	21310470	A	G
MAP2K3	17	21311120	T	C
MAP2K3	17	21313290	G	A
MAP2K3	17	21307788	C	T
MAP2K3	17	21312847	G	A
MAP2K3	17	21289593	C	T
MAP2K3	17	21313652	T	C
MAP2K3	17	21295660	T	C
MAP2K3	17	21298004	TA	T
MAP2K3	17	21291192	C	T
MAP2K3	17	21297191	G	T
MAP2K3	17	21307642	T	C
MAP2K3	17	21311304	A	G
ABHD15-AS1	17	29568510	T	C
ABHD15-AS1	17	29626282	GA	G
ABHD15-AS1	17	29626372	TG	T
ABHD15-AS1	17	29630921	C	T
ABHD15-AS1	17	29577693	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ABHD15-AS1	17	29572644	G	T
ABHD15-AS1	17	29572645	C	T
ABHD15-AS1	17	29628522	C	T
ABHD15-AS1	17	29627006	G	A
ABHD15-AS1	17	29627414	G	T
ABHD15-AS1	17	29628729	T	C
ABHD15-AS1	17	29628743	G	A
ABHD15-AS1	17	29628476	A	T
ABHD15-AS1	17	29630527	T	C
ABHD15-AS1	17	29632885	G	A
STARD3	17	39657085	T	C
STARD3	17	39659496	G	A
STARD3	17	39662308	T	C
STARD3	17	39662988	A	G
STARD3	17	39663082	C	G
STARD3	17	39663204	G	A
STARD3	17	39657827	G	A
STARD3	17	39660208	T	C
STARD3	17	39663922	A	G
STARD3	17	39664081	G	A
STARD3	17	39649602	C	T
STARD3	17	39649568	C	A
STARD3	17	39659646	G	A
STARD3	17	39644851	CA	C
STARD3	17	39659051	G	C
AC099811.2	17	42128273	G	A
AC099811.2	17	42127043	A	C
AC099811.2	17	42135054	T	C
AC099811.2	17	42127885	G	A
AC099811.2	17	42127662	G	A
AC099811.2	17	42137857	G	A
AC099811.2	17	42132765	C	T
AC099811.2	17	42126063	T	A
AC099811.2	17	42126504	C	T
AC099811.2	17	42134809	C	G
AC099811.2	17	42127201	C	T
AC099811.2	17	42135053	T	C
AC099811.2	17	42127456	T	C
AC099811.2	17	42130455	C	T
AC099811.2	17	42125935	AC	A
AC099811.2	17	42133343	A	G
AC099811.2	17	42127920	A	G
AC099811.2	17	42124978	G	T
NAGLU	17	42544215	C	G
NAGLU	17	42537437	T	C
PLEKHM1	17	45467226	T	C
PLEKHM1	17	45474740	C	T
PLEKHM1	17	45465698	A	C
PLEKHM1	17	45466464	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PLEKHM1	17	45474306	C	T
PLEKHM1	17	45437045	G	C
PLEKHM1	17	45467516	T	C
PLEKHM1	17	45436075	C	T
PLEKHM1	17	45436185	C	G
PLEKHM1	17	45436530	C	T
PLEKHM1	17	45437588	G	A
PLEKHM1	17	45465716	A	AT
PLEKHM1	17	45465717	T	A
PLEKHM1	17	45473785	C	G
PLEKHM1	17	45473955	G	C
PLEKHM1	17	45474157	T	C
PLEKHM1	17	45474180	C	T
PLEKHM1	17	45465841	T	C
PLEKHM1	17	45468527	T	C
PLEKHM1	17	45475351	G	C
PLEKHM1	17	45475555	C	T
PLEKHM1	17	45458608	T	C
PLEKHM1	17	45436810	C	T
PLEKHM1	17	45473720	G	A
PLEKHM1	17	45473717	C	T
PLEKHM1	17	45474062	AT	A
PLEKHM1	17	45475685	G	A
SP2	17	47915256	G	A
SP2	17	47923040	T	C
SP2	17	47925378	G	T
SP2	17	47916678	C	T
SP2	17	47916728	T	C
SP2	17	47916788	G	A
SP2	17	47904170	T	C
SP2	17	47911659	A	C
SP2	17	47911680	T	C
SP2	17	47896919	C	T
SP2	17	47928098	G	A
C17orf67	17	56835376	A	G
C17orf67	17	56828776	T	C
C17orf67	17	56829448	A	G
C17orf67	17	56829953	C	T
C17orf67	17	56830770	A	T
C17orf67	17	56832043	G	A
C17orf67	17	56828559	T	C
C17orf67	17	56832919	T	A
C17orf67	17	56833667	C	G
C17orf67	17	56836210	T	G
C17orf67	17	56836213	A	AT
C17orf67	17	56831238	G	T
C17orf67	17	56829755	G	A
C17orf67	17	56831164	TCA	T
C17orf67	17	56831540	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC064805.1	17	74606616	C	T
AC064805.1	17	74599925	T	C
AC064805.1	17	74606478	C	T
AC064805.1	17	74599913	A	G
AC064805.1	17	74603902	G	T
AC064805.1	17	74604326	G	C
AC064805.1	17	74604026	G	A
AC064805.1	17	74606101	G	A
AC064805.1	17	74606454	G	A
AC064805.1	17	74606560	G	A
AC064805.1	17	74606789	C	A
AC064805.1	17	74606911	C	A
AC064805.1	17	74603865	A	C
TMEM104	17	74837932	A	G
TMEM104	17	74838446	A	G
TMEM104	17	74838815	C	A
TMEM104	17	74776559	G	C
TMEM104	17	74788793	G	A
TMEM104	17	74836789	G	A
TMEM104	17	74836843	A	AC
TMEM104	17	74777989	T	C
TMEM104	17	74838019	C	G
TMEM104	17	74795527	C	T
TMEM104	17	74788491	A	G
TMEM104	17	74790773	A	T
JMJD6	17	76713246	T	C
JMJD6	17	76713262	T	C
JMJD6	17	76715641	T	C
JMJD6	17	76714046	T	C
JMJD6	17	76714490	T	C
JMJD6	17	76720677	A	G
JMJD6	17	76720708	T	C
JMJD6	17	76723444	CT	C
JMJD6	17	76723471	T	C
JMJD6	17	76716228	A	G
JMJD6	17	76721522	C	T
JMJD6	17	76722073	C	T
JMJD6	17	76723035	T	C
JMJD6	17	76713621	G	C
JMJD6	17	76715623	T	C
JMJD6	17	76718898	C	A
JMJD6	17	76714701	C	A
SYNGR2	17	78172138	C	T
SYNGR2	17	78172776	G	T
SYNGR2	17	78170966	C	T
SYNGR2	17	78168652	C	A
SYNGR2	17	78172890	G	A
SYNGR2	17	78169467	G	A
SYNGR2	17	78172676	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC00667	18	5238829	C	T
LINC00667	18	5244174	C	T
LINC00667	18	5244772	T	C
LINC00667	18	5244777	G	C
LINC00667	18	5245229	C	T
LINC00667	18	5245248	G	A
LINC00667	18	5245825	G	A
LINC00667	18	5245862	G	C
LINC00667	18	5246399	C	T
LINC00667	18	5289888	C	G
LINC00667	18	5290175	G	A
LINC00667	18	5290199	T	C
LINC00667	18	5290283	A	G
LINC00667	18	5239320	A	G
LINC00667	18	5241756	A	G
LINC00667	18	5239337	T	G
LINC00667	18	5244344	T	C
LINC00667	18	5241792	A	G
LINC00667	18	5244326	G	A
LINC00667	18	5244752	C	T
LINC00667	18	5244488	C	T
LINC00667	18	5244963	C	CTG
CYB5A	18	74260913	A	T
CYB5A	18	74260915	C	T
CYB5A	18	74291840	G	A
CYB5A	18	74256488	A	G
CYB5A	18	74256529	C	CA
CYB5A	18	74253398	C	A
POLRMT	19	617614	G	A
POLRMT	19	619021	G	C
POLRMT	19	621712	A	G
POLRMT	19	622336	T	G
POLRMT	19	625198	A	G
POLRMT	19	621063	A	G
POLRMT	19	619264	T	G
POLRMT	19	632915	G	A
POLRMT	19	620407	G	A
POLRMT	19	621090	C	T
POLRMT	19	621126	G	A
C19orf25	19	1475514	T	C
C19orf25	19	1476935	CT	C
C19orf25	19	1477001	CT	C
C19orf25	19	1474227	T	C
C19orf25	19	1474933	TG	T
C19orf25	19	1478154	A	C
C19orf25	19	1478412	GTTTTGT	G
C19orf25	19	1474418	AGT	A
ABHD17A	19	1883434	C	T
ABHD17A	19	1885370	C	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ABHD17A	19	1877102	C	A
ABHD17A	19	1877728	G	T
ABHD17A	19	1878508	C	T
ABHD17A	19	1879198	T	C
ABHD17A	19	1883655	G	A
ABHD17A	19	1883952	T	C
ABHD17A	19	1880373	G	C
ABHD17A	19	1880524	G	A
ABHD17A	19	1881920	A	G
ABHD17A	19	1881921	G	A
ABHD17A	19	1881274	C	T
ABHD17A	19	1878900	G	C
ABHD17A	19	1878938	G	C
ABHD17A	19	1879050	C	T
ABHD17A	19	1881388	G	A
ABHD17A	19	1877024	T	C
MOB3A	19	2072039	T	C
MOB3A	19	2072600	G	A
MOB3A	19	2078222	G	C
MOB3A	19	2078410	A	G
MOB3A	19	2078489	T	C
MOB3A	19	2072844	C	A
MOB3A	19	2071731	G	A
MOB3A	19	2072647	T	C
MOB3A	19	2072773	G	A
MOB3A	19	2073355	C	A
MOB3A	19	2085348	A	G
MOB3A	19	2084770	T	C
MOB3A	19	2084779	T	C
MOB3A	19	2088395	C	T
MOB3A	19	2078177	C	T
MOB3A	19	2071901	C	T
MOB3A	19	2072887	T	C
MOB3A	19	2075102	T	C
MOB3A	19	2078492	C	T
MOB3A	19	2078597	G	T
MOB3A	19	2085853	A	G
MOB3A	19	2085862	G	A
MOB3A	19	2078828	A	G
MOB3A	19	2085827	A	T
MOB3A	19	2095047	T	C
KDM4B	19	4978192	T	C
KDM4B	19	5041167	T	C
KDM4B	19	5151384	C	T
KDM4B	19	5152114	G	T
KDM4B	19	5152376	T	C
KDM4B	19	5152434	T	C
KDM4B	19	4978455	T	C
KDM4B	19	4978235	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KDM4B	19	4978711	A	C
KDM4B	19	4974047	A	G
KDM4B	19	5078404	C	T
KDM4B	19	4974009	A	G
KDM4B	19	5079067	C	T
KDM4B	19	5111983	A	G
KDM4B	19	5152887	T	A
KDM4B	19	5153046	CA	C
AC008878.3	19	7467366	G	C
AC008878.3	19	7468881	T	G
AC008878.3	19	7468964	A	G
AC008878.3	19	7469971	G	A
AC008878.3	19	7444234	G	A
AC008878.3	19	7463848	A	G
AC008878.3	19	7427472	G	C
AC008878.3	19	7427674	A	G
AC008878.3	19	7459960	C	T
AC008878.3	19	7459969	C	T
AC008878.3	19	7442050	A	T
AC008878.3	19	7469005	G	A
STXBP2	19	7647307	G	A
STXBP2	19	7647391	A	G
STXBP2	19	7644385	A	G
STXBP2	19	7645900	TC	T
STXBP2	19	7646335	T	C
STXBP2	19	7647275	C	T
STXBP2	19	7647539	G	C
STXBP2	19	7647588	G	A
STXBP2	19	7647699	T	G
STXBP2	19	7646034	G	A
STXBP2	19	7645324	A	G
STXBP2	19	7645383	A	G
STXBP2	19	7645717	C	G
STXBP2	19	7643172	C	T
PRAM1	19	8498572	C	G
PRAM1	19	8491479	C	T
PRAM1	19	8494705	T	C
PRAM1	19	8492024	T	C
PRAM1	19	8502591	T	C
PRAM1	19	8494717	T	C
PRAM1	19	8494879	C	T
PRAM1	19	8497289	T	C
PRAM1	19	8493890	T	C
PRAM1	19	8494832	T	C
PRAM1	19	8497173	CT	C
PRAM1	19	8497458	C	T
PRAM1	19	8492349	T	C
PRAM1	19	8494270	T	G
PRAM1	19	8494922	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PRAM1	19	8495526	T	C
PRAM1	19	8499582	C	A
PRAM1	19	8499585	C	C
PRAM1	19	8499639	T	G
GIPC1	19	14479424	C	T
GIPC1	19	14489408	T	C
GIPC1	19	14489425	C	T
GIPC1	19	14489438	T	A
GIPC1	19	14489552	A	C
GIPC1	19	14489569	A	T
GIPC1	19	14489610	T	C
GIPC1	19	14496075	C	CCGC
GIPC1	19	14478256	T	G
GIPC1	19	14478566	C	T
GIPC1	19	14478348	T	A
SIN3B	19	16855928	A	G
SIN3B	19	16879598	G	A
SIN3B	19	16856807	A	G
SIN3B	19	16856824	A	G
SIN3B	19	16856927	C	T
SIN3B	19	16879876	A	G
SIN3B	19	16879984	T	C
SIN3B	19	16879496	G	A
SIN3B	19	16880163	G	A
SIN3B	19	16855673	A	G
SIN3B	19	16855676	A	G
SIN3B	19	16879535	C	T
SIN3B	19	16855574	A	G
SIN3B	19	16856711	A	G
HAUS8	19	17052851	C	T
HAUS8	19	17072595	G	C
HAUS8	19	17072596	C	T
HAUS8	19	17060075	C	T
HAUS8	19	17053751	T	C
HAUS8	19	17053868	T	C
HAUS8	19	17061133	CT	C
HAUS8	19	17072375	G	A
HAUS8	19	17050283	T	C
HAUS8	19	17050257	A	G
HAUS8	19	17051782	C	T
HAUS8	19	17068211	T	C
OCEL1	19	17226414	G	A
OCEL1	19	17226748	G	T
OCEL1	19	17229138	C	T
OCEL1	19	17226612	G	C
OCEL1	19	17226746	C	A
OCEL1	19	17228303	G	A
OCEL1	19	17227062	A	G
OCEL1	19	17227073	C	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
OCEL1	19	17228602	G	T
OCEL1	19	17228626	G	A
JUND	19	18280054	A	C
JUND	19	18280264	T	G
JUND	19	18280274	CGGG	C
JUND	19	18280361	C	T
JUND	19	18280299	G	T
SSBP4	19	18427932	A	C
SSBP4	19	18433868	C	CC
SSBP4	19	18434531	A	C
SSBP4	19	18419684	C	T
AC010335.1	19	18442770	CAGAT	C
AC010335.1	19	18442875	GA	G
AC002985.1	19	18928489	T	C
AC002985.1	19	18929503	G	C
AC002985.1	19	18919762	C	T
AC002985.1	19	18932440	T	C
AC002985.1	19	18921195	A	G
AC002985.1	19	18921828	T	C
AC002985.1	19	18921871	T	C
AC002985.1	19	18933749	G	A
AC002985.1	19	18928033	C	C
LRP3	19	33205802	T	C
LRP3	19	33207385	T	C
LRP3	19	33207542	G	A
LRP3	19	33205448	C	T
LRP3	19	33205991	C	T
LRP3	19	33206640	C	T
LRP3	19	33202960	C	T
LRP3	19	33207112	C	T
NAPA	19	47513941	C	CT
NAPA	19	47514077	C	G
NAPA	19	47514159	T	C
NLRP12	19	53804068	G	A
NLRP12	19	53805300	C	T
NLRP12	19	53813524	G	A
NLRP12	19	53824186	G	A
NLRP12	19	53803961	C	T
NLRP12	19	53804611	G	A
LENG8	19	54454681	A	G
LENG8	19	54451290	A	C
LENG8	19	54455400	G	C
LENG8	19	54459190	C	G
LENG8	19	54459532	C	T
LENG8	19	54455378	G	C
LENG8	19	54460595	G	A
LENG8	19	54461738	T	C
LENG8	19	54460316	G	A
LENG8	19	54460050	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LENG8	19	54460081	G	C
LENG8	19	54461539	A	T
LILRB1	19	54631046	A	C
LILRB1	19	54631632	C	T
LILRB1	19	54631705	C	T
LILRB1	19	54631706	A	G
LILRB1	19	54632001	C	T
LILRB1	19	54632040	T	G
LILRB1	19	54632735	C	T
LILRB1	19	54635114	G	A
LILRB1	19	54636625	G	A
LILRB1	19	54636880	C	T
LILRB1	19	54636927	G	A
LILRB1	19	54636939	C	A
LILRB1	19	54637177	C	T
LILRB1	19	54617864	A	G
LILRB1	19	54618016	A	G
LILRB1	19	54618162	GA	G
LILRB1	19	54618199	T	A
LILRB1	19	54631288	C	A
LILRB1	19	54632531	T	C
LILRB1	19	54632649	A	G
LILRB1	19	54633172	C	T
LILRB1	19	54634003	G	A
LILRB1	19	54634688	A	G
LILRB1	19	54636059	C	G
LILRB1	19	54636580	T	C
LILRB1	19	54636725	G	A
LILRB1	19	54636848	C	A
LILRB1	19	54637036	G	A
LILRB1	19	54636791	C	T
LILRB1	19	54636798	G	A
LILRB1	19	54631055	G	T
LILRB1	19	54631999	A	G
LILRB1	19	54632003	C	A
LILRB1	19	54636592	T	C
LILRB1	19	54637391	T	C
LILRB1	19	54634655	C	G
LILRB1	19	54636952	T	C
LILRB1	19	54633259	A	T
LILRB1	19	54633260	C	C
LILRB1	19	54633269	A	C
LILRB1	19	54636594	G	A
LILRB1	19	54632696	C	T
LILRB1	19	54632717	C	T
LILRB1	19	54632723	G	C
LILRB1	19	54637494	C	T
LILRB1	19	54632675	C	T
LILRB1	19	54632728	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TMEM86B	19	55228321	G	A
TMEM86B	19	55227057	G	A
TMEM86B	19	55227266	T	C
TMEM86B	19	55227378	G	A
TMEM86B	19	55228237	C	T
TMEM86B	19	55226779	C	G
TMEM86B	19	55226813	G	A
TMEM18	2	668685	C	T
TMEM18	2	676177	C	G
TMEM18	2	677295	C	T
TMEM18	2	668618	T	C
TMEM18	2	675831	G	T
TMEM18	2	672826	G	A
ADI1	2	3500916	A	G
ADI1	2	3498537	C	A
ADI1	2	3498264	C	T
ADI1	2	3498284	T	G
ADI1	2	3498427	T	A
ADI1	2	3498627	C	T
ADI1	2	3498854	T	C
ADI1	2	3498938	A	G
ADI1	2	3498998	C	T
ADI1	2	3500948	G	A
TTC32	2	19901461	GA	G
TTC32	2	19901468	C	A
TTC32	2	19901602	G	A
TTC32	2	19901726	G	A
CENPO	2	24819753	A	G
CENPO	2	24819756	C	G
CENPO	2	24821894	A	G
CENPO	2	24805094	G	A
ZFP36L2	2	43225044	A	G
ZFP36L2	2	43225947	G	A
ZFP36L2	2	43223762	AAT	A
ZFP36L2	2	43226260	C	T
ZFP36L2	2	43224818	G	A
ZFP36L2	2	43226582	G	A
ZFP36L2	2	43225195	G	A
ZFP36L2	2	43223734	GCTAA	G
ZFP36L2	2	43225479	C	T
ZFP36L2	2	43225654	C	C
MTHFD2	2	74217398	T	G
MTHFD2	2	74214672	A	G
MTHFD2	2	74215280	A	G
MTHFD2	2	74217304	A	T
MTHFD2	2	74215304	T	G
MTHFD2	2	74216185	A	G
MTHFD2	2	74214998	T	G
MTHFD2	2	74217180	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TRABD2A	2	84853384	G	A
TRABD2A	2	84906092	G	A
TRABD2A	2	84837385	A	C
TRABD2A	2	84823998	G	A
TRABD2A	2	84836501	C	T
TRABD2A	2	84836878	C	T
TRABD2A	2	84905643	G	T
TRABD2A	2	84905656	G	T
TRABD2A	2	84906196	C	T
TRABD2A	2	84836297	CCTT	C
TRABD2A	2	84837142	C	T
TRABD2A	2	84837511	T	C
TRABD2A	2	84837513	A	C
TRABD2A	2	84837514	G	T
TRABD2A	2	84832103	C	T
TRABD2A	2	84832146	C	A
TRABD2A	2	84836405	G	A
TRABD2A	2	84836503	C	T
TRABD2A	2	84864029	T	C
TRABD2A	2	84870352	T	G
EIF2AK3	2	88579613	T	C
EIF2AK3	2	88595605	T	C
EIF2AK3	2	88608810	T	C
EIF2AK3	2	88602214	C	T
EIF2AK3	2	88613755	G	C
EIF2AK3	2	88627211	CCAG	C
EIF2AK3	2	88608882	AT	A
EIF2AK3	2	88624206	C	T
TMEM131	2	97756517	A	G
TMEM131	2	97756543	C	T
TMEM131	2	97756641	T	C
TMEM131	2	97995531	G	T
TMEM131	2	97827942	T	C
TMEM131	2	97828089	A	G
TMEM131	2	97828097	T	C
TMEM131	2	97828136	T	C
TMEM131	2	97834780	G	A
TMEM131	2	97828156	CAT	C
TMEM131	2	97895877	C	T
TMEM131	2	97948758	A	C
TMEM131	2	97792583	C	A
TMEM131	2	97885110	G	T
WASH2P	2	113595774	C	T
WASH2P	2	113596805	A	G
WASH2P	2	113597590	A	G
WASH2P	2	113598421	C	G
WASH2P	2	113598783	G	A
WASH2P	2	113596711	A	C
WASH2P	2	113598725	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
WASH2P	2	113595462	C	T
WASH2P	2	113595705	G	T
WASH2P	2	113596748	C	T
WASH2P	2	113598837	A	T
WASH2P	2	113598846	C	T
WASH2P	2	113598862	T	C
WASH2P	2	113596754	C	T
WASH2P	2	113598644	C	T
WASH2P	2	113598662	T	C
WASH2P	2	113595431	G	C
WASH2P	2	113596717	A	T
IMP4	2	130342923	G	A
IMP4	2	130343161	G	A
IMP4	2	130346951	G	A
IMP4	2	130346476	C	T
IMP4	2	130346062	C	T
IMP4	2	130342972	G	T
IMP4	2	130347274	T	C
PTPN18	2	130362232	A	G
PTPN18	2	130372355	AGACGGG	A
PTPN18	2	130373851	G	C
PTPN18	2	130373952	C	T
PTPN18	2	130374293	A	G
PTPN18	2	130374296	A	G
PTPN18	2	130363410	A	G
PTPN18	2	130362238	A	G
PTPN18	2	130362244	A	G
PTPN18	2	130375088	C	T
PTPN18	2	130370925	A	G
PTPN18	2	130374793	C	T
PTPN18	2	130373908	T	TAGTC
PTPN18	2	130374335	AT	A
CCNT2	2	134956133	G	A
CCNT2	2	134954087	G	A
CCNT2	2	134933621	G	A
CCNT2	2	134953946	C	T
CCNT2	2	134955815	TAAAA	T
CCNT2	2	134945768	CT	C
CCNT2	2	134933420	G	C
CXCR4	2	136115979	A	T
CXCR4	2	136116434	A	G
CXCR4	2	136117336	G	A
CXCR4	2	136117356	GT	G
NMI	2	151282008	T	C
NMI	2	151282902	G	A
NMI	2	151289680	G	C
NMI	2	151270655	C	T
NMI	2	151275616	A	G
NMI	2	151270647	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NMI	2	151270497	A	G
NMI	2	151272781	A	G
CYBRD1	2	171554763	G	A
CYBRD1	2	171556508	A	G
CYBRD1	2	171557952	G	A
CYBRD1	2	171557976	C	T
CYBRD1	2	171558043	A	G
CYBRD1	2	171557658	G	A
CYBRD1	2	171557973	AC	A
BZW1	2	200822805	G	A
BZW1	2	200825019	C	T
BZW1	2	200825104	A	G
BZW1	2	200825290	CCT	C
BZW1	2	200825372	A	T
BZW1	2	200826271	A	T
BZW1	2	200824740	T	C
BZW1	2	200824754	T	C
BZW1	2	200826940	CITTTT	C
BZW1	2	200822432	C	T
BZW1	2	200821943	C	T
BZW1	2	200813068	T	C
BZW1	2	200817489	T	A
BZW1	2	200823248	C	T
PLEKHM3	2	207867830	T	A
PLEKHM3	2	207974014	G	C
PLEKHM3	2	207857667	C	T
PLEKHM3	2	207920579	GA	G
PLEKHM3	2	207924028	T	C
PLEKHM3	2	207946373	C	T
PLEKHM3	2	207956429	A	C
PLEKHM3	2	207966831	G	A
PLEKHM3	2	207974872	A	C
PLEKHM3	2	207878940	C	G
PLEKHM3	2	207924123	T	C
PLEKHM3	2	207948610	T	C
PLEKHM3	2	207948733	C	T
THAP4	2	241633796	T	C
THAP4	2	241600249	C	G
THAP4	2	241602350	G	A
THAP4	2	241611630	A	G
THAP4	2	241621866	C	T
THAP4	2	241623607	G	A
THAP4	2	241617604	G	A
THAP4	2	241621402	T	C
THAP4	2	241621695	A	G
THAP4	2	241622096	G	A
THAP4	2	241631967	G	A
THAP4	2	241633431	A	G
THAP4	2	241612003	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
THAP4	2	241590036	C	T
THAP4	2	241597170	G	A
THAP4	2	241598647	T	C
THAP4	2	241599930	C	T
THAP4	2	241605547	A	T
THAP4	2	241612429	C	T
THAP4	2	241612430	T	A
THAP4	2	241618139	C	T
THAP4	2	241620926	T	C
THAP4	2	241630939	T	C
THAP4	2	241597717	G	A
THAP4	2	241598924	GA	G
THAP4	2	241602441	C	T
THAP4	2	241618147	T	C
THAP4	2	241619756	T	C
THAP4	2	241584600	CTAG	C
THAP4	2	241598907	G	A
THAP4	2	241600316	T	C
THAP4	2	241601839	T	C
THAP4	2	241607900	A	G
THAP4	2	241611677	T	C
THAP4	2	241612097	C	T
THAP4	2	241621585	C	T
THAP4	2	241622288	A	C
THAP4	2	241631816	A	G
THAP4	2	241633284	C	T
THAP4	2	241584508	C	G
LINC01237	2	241934133	T	C
LINC01237	2	241967921	A	G
LINC01237	2	241970788	G	A
LINC01237	2	241972120	T	C
LINC01237	2	241972166	G	C
LINC01237	2	241976273	T	C
LINC01237	2	241977068	T	C
LINC01237	2	241963306	C	A
LINC01237	2	241964104	G	A
LINC01237	2	241890392	G	A
LINC01237	2	241967776	A	T
LINC01237	2	241975155	C	T
LINC01237	2	241975957	AG	A
LINC01237	2	241976052	C	T
LINC01237	2	241976155	T	C
LINC01237	2	241976171	G	C
LINC01237	2	241976453	C	T
LINC01237	2	241976520	T	C
LINC01237	2	241976886	C	T
LINC01237	2	241976890	T	C
LINC01237	2	241976995	A	G
LINC01237	2	241977329	G	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC01237	2	241977435	A	G
LINC01237	2	241977545	G	A
LINC01237	2	241977624	T	C
LINC01237	2	241977773	T	C
LINC01237	2	241977794	A	G
LINC01237	2	241979481	G	A
LINC01237	2	241981497	C	T
LINC01237	2	241981608	A	G
SIRPG	20	1629306	C	T
SIRPG	20	1630293	G	A
SIRPG	20	1635313	T	C
SIRPG	20	1635491	G	A
SIRPG	20	1635560	A	G
SIRPG	20	1629555	C	T
SIRPG	20	1636423	A	G
SIRPG	20	1629416	A	C
SIRPG	20	1649260	C	T
SIRPG	20	1629329	G	A
CDC25B	20	3796321	T	A
CDC25B	20	3803463	C	T
CDC25B	20	3803117	C	T
CDC25B	20	3805182	CAGTT	G
CDC25B	20	3805331	G	A
CDC25B	20	3805337	C	T
CDC25B	20	3805920	C	T
CDC25B	20	3805990	G	C
SLC23A2	20	4967602	G	A
SLC23A2	20	4967743	T	C
SLC23A2	20	5001472	T	G
SLC23A2	20	4968877	C	T
SLC23A2	20	4969613	C	G
SLC23A2	20	4972277	C	T
SLC23A2	20	4980583	C	G
SLC23A2	20	4975955	G	A
SLC23A2	20	4874036	A	G
SLC23A2	20	4961259	T	C
SLC23A2	20	4961283	T	C
SLC23A2	20	4967789	C	T
SLC23A2	20	4961192	G	C
SLC23A2	20	4867996	CCIGGGAG	C
SLC23A2	20	4976074	T	C
SLC23A2	20	4853692	C	T
SLC23A2	20	4854674	G	A
SLC23A2	20	4854692	C	A
SLC23A2	20	4855794	C	T
SLC23A2	20	4856417	A	G
SLC23A2	20	4856675	G	C
SLC23A2	20	4856839	T	C
SLC23A2	20	4863246	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SLC23A2	20	4899662	G	A
AL035461.3	20	6006304	G	A
AL035461.3	20	6023511	G	A
AL035461.3	20	6031288	C	T
AL035461.3	20	6023612	T	G
AL035461.3	20	6023638	G	GT
AL035461.3	20	6018071	C	T
AL035461.3	20	6017981	G	A
AL035461.3	20	6037175	C	T
GZF1	20	23365207	A	C
GZF1	20	23371843	A	G
GZF1	20	23372048	C	A
GZF1	20	23362854	T	C
GZF1	20	23371252	C	T
GZF1	20	23370651	A	T
GZF1	20	23365679	C	T
GZF1	20	23370153	C	T
GZF1	20	23370696	G	T
CPNE1	20	35651460	C	T
CPNE1	20	35652162	G	A
CPNE1	20	35655095	C	T
CPNE1	20	35626251	C	A
CPNE1	20	35631558	G	A
CPNE1	20	35631574	T	C
CPNE1	20	35632833	C	T
CPNE1	20	35649065	T	C
CPNE1	20	35649328	G	C
CPNE1	20	35650012	G	A
CPNE1	20	35651632	T	TC
CPNE1	20	35664732	A	G
CPNE1	20	35651901	C	A
CPNE1	20	35651086	G	A
CPNE1	20	35653344	A	G
CPNE1	20	35653348	C	T
CPNE1	20	35630238	T	C
CPNE1	20	35630290	T	C
CPNE1	20	35626446	T	C
CPNE1	20	35628136	C	T
CPNE1	20	35660144	C	T
CPNE1	20	35632641	A	C
CPNE1	20	35660212	T	C
CPNE1	20	35626801	T	C
RBM39	20	35722590	T	C
RBM39	20	35725504	C	T
RBM39	20	35731196	A	T
RBM39	20	35731421	A	G
RBM39	20	35731843	A	C
RBM39	20	35731853	A	T
RBM39	20	35739237	T	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RBM39	20	35740352	G	A
RBM39	20	35740926	C	T
RBM39	20	35741987	TTGCTGC	T
RBM39	20	35713269	T	C
RBM39	20	35719843	C	G
RBM39	20	35725375	C	T
RBM39	20	35726218	G	A
RBM39	20	35727755	T	C
RBM39	20	35741437	T	C
RBM39	20	35708586	TC	T
RBM39	20	35733973	A	G
RBM39	20	35734424	T	C
RBM39	20	35734496	A	G
RBM39	20	35710387	A	C
RBM39	20	35712534	C	T
RBM39	20	35731495	C	CAA
RBM39	20	35732837	C	T
RBM39	20	35734595	T	C
RBM39	20	35741258	T	G
RBM39	20	35725679	C	G
RBM39	20	35732280	TA	T
RBM39	20	35713305	T	C
RBM39	20	35713949	C	T
RBM39	20	35720028	T	C
RBM39	20	35727650	AT	A
ACTR5	20	38767477	A	G
ACTR5	20	38771847	G	A
ACTR5	20	38771872	T	A
ACTR5	20	38766345	G	A
ACTR5	20	38771873	G	T
ACTR5	20	38771863	C	T
ACTR5	20	38754997	T	C
NCOA5	20	46061835	G	A
NCOA5	20	46062711	T	G
NCOA5	20	46089592	G	A
NCOA5	20	46089588	A	G
NCOA5	20	46089107	C	T
NCOA5	20	46061234	C	G
NCOA5	20	46070254	G	A
NCOA5	20	46089326	G	A
NCOA5	20	46089331	C	A
NCOA5	20	46061829	C	T
CASS4	20	56458420	C	G
CASS4	20	56458579	C	T
CASS4	20	56458591	T	C
CASS4	20	56458657	G	A
CASS4	20	56458800	A	C
CASS4	20	56459857	T	A
CASS4	20	56459886	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CASS4	20	56459962	G	A
CASS4	20	56459972	T	C
CASS4	20	56460139	T	C
CASS4	20	56453111	G	A
CASS4	20	56437405	G	A
CASS4	20	56460309	G	A
ZBP1	20	57611828	T	C
ZBP1	20	57610247	G	A
ZBP1	20	57604366	C	A
ZBP1	20	57607127	G	C
ZBP1	20	57607240	A	C
ZBP1	20	57604530	G	A
ZBP1	20	57615578	C	T
ZBP1	20	57607266	C	G
PPP4R1L	20	58245824	C	T
PPP4R1L	20	58247480	G	A
PPP4R1L	20	58292613	C	T
PPP4R1L	20	58232913	A	G
PPP4R1L	20	58246071	A	G
PPP4R1L	20	58231765	A	C
PPP4R1L	20	58246270	T	C
PPP4R1L	20	58231649	C	T
PPP4R1L	20	58232736	C	T
PPP4R1L	20	58291870	G	T
PPP4R1L	20	58291872	T	C
PPP4R1L	20	58270883	C	T
PPP4R1L	20	58270893	G	C
PPP4R1L	20	58291757	G	C
PPP4R1L	20	58292614	GCAC	G
PPP4R1L	20	58287155	G	A
PPP4R1L	20	58299329	A	T
PPP4R1L	20	58230309	G	A
PPP4R1L	20	58239836	G	T
PPP4R1L	20	58285309	T	C
PPP4R1L	20	58245850	G	T
PPP4R1L	20	58302381	G	A
PPP4R1L	20	58302428	A	G
OSBPL2	20	62294624	C	T
OSBPL2	20	62294699	C	T
OSBPL2	20	62285860	G	A
OSBPL2	20	62285888	C	T
OSBPL2	20	62295778	TG	T
OSBPL2	20	62277342	C	T
OSBPL2	20	62285743	T	C
OSBPL2	20	62295110	A	G
OSBPL2	20	62294283	G	A
OSBPL2	20	62291763	G	A
OGFR	20	62812284	G	A
OGFR	20	62812308	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
OGFR	20	62812335	G	A
OGFR	20	62812518	C	G
OGFR	20	62813277	A	C
OGFR	20	62813313	G	A
OGFR	20	62813341	G	A
OGFR	20	62813345	G	C
OGFR	20	62813587	G	C
OGFR	20	62813960	A	G
OGFR	20	62809619	G	A
OGFR	20	62808844	G	A
OGFR	20	62813433	G	A
OGFR	20	62808604	C	T
OGFR	20	62813188	A	C
OGFR	20	62808489	G	A
OGFR	20	62812364	G	A
OGFR	20	62813171	C	T
OGFR	20	62809460	G	A
OGFR	20	62812881	C	A
OGFR	20	62808695	C	T
OGFR	20	62808872	G	C
GID8	20	62945356	GT	G
GID8	20	62945425	A	G
GID8	20	62946163	C	T
GID8	20	62946841	C	T
GID8	20	62947258	G	A
GID8	20	62938171	G	C
GID8	20	62941586	C	T
GID8	20	62945923	T	C
GID8	20	62946277	C	T
GID8	20	62946387	TC	T
GID8	20	62945295	T	G
GID8	20	62945340	C	T
GID8	20	62947353	CTT	C
GID8	20	62947901	G	A
GID8	20	62948314	T	C
GID8	20	62939117	CA	C
GID8	20	62947755	G	A
GID8	20	62938930	G	T
GID8	20	62946479	C	T
GID8	20	62947269	T	C
GID8	20	62945497	AC	A
GID8	20	62947728	T	G
GID8	20	62948206	C	T
HMGNI	21	39348568	C	T
HMGNI	21	39346235	C	T
HMGNI	21	39342552	C	T
HMGNI	21	39342720	A	G
HMGNI	21	39345574	T	C
HMGNI	21	39345552	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HMG1	21	39346514	T	C
HMG1	21	39346592	A	G
HMG1	21	39347315	C	T
HMG1	21	39344021	A	G
RRP1	21	43804049	C	T
RRP1	21	43797678	T	C
RRP1	21	43798048	T	C
RRP1	21	43799643	T	C
RRP1	21	43800602	A	G
RRP1	21	43789678	C	T
RRP1	21	43804005	G	A
RRP1	21	43803786	C	T
RRP1	21	43796113	T	C
RRP1	21	43796118	T	C
COL18A1	21	45479928	C	T
COL18A1	21	45479943	C	T
COL18A1	21	45479958	C	A
COL18A1	21	45480496	C	T
COL18A1	21	45488441	T	C
COL18A1	21	45489512	G	A
COL18A1	21	45490296	G	A
COL18A1	21	45491274	C	G
COL18A1	21	45504511	CGGCCCCCA (SEQ ID No: 61)	C
COL18A1	21	45509553	G	A
COL18A1	21	45512469	G	A
COL18A1	21	45512738	G	A
COL18A1	21	45507575	A	G
COL18A1	21	45512704	G	C
COL18A1	21	45512414	G	A
SLC19A1	21	45514912	G	A
SLC19A1	21	45514947	A	C
SLC19A1	21	45515163	TA	T
SLC19A1	21	45531642	A	G
SLC19A1	21	45537880	T	C
SLC19A1	21	45556322	T	C
SLC19A1	21	45530814	G	A
SLC19A1	21	45515295	T	C
COL6A2	21	46119046	G	A
COL6A2	21	46125854	G	A
COL6A2	21	46125909	C	A
COL6A2	21	46125912	C	T
COL6A2	21	46125999	G	A
COL6A2	21	46132189	G	T
COL6A2	21	46132385	C	T
COL6A2	21	46132668	T	C
COL6A2	21	46132671	A	G
COL6A2	21	46132471	C	T
COL6A2	21	46132243	G	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LSS	21	46189596	T	C
LSS	21	46215713	C	G
LSS	21	46189763	A	C
LSS	21	46190152	T	C
LSS	21	46194555	A	C
LSS	21	46190529	G	A
LSS	21	46194639	G	A
LSS	21	46215262	T	C
LSS	21	46194529	A	G
ATP6V1E1	22	17592287	G	A
ATP6V1E1	22	17628665	T	C
ATP6V1E1	22	17592497	T	C
ATP6V1E1	22	17609301	T	C
ATP6V1E1	22	17592487	T	C
ATP6V1E1	22	17607062	T	C
ATP6V1E1	22	17607088	C	T
ATP6V1E1	22	17607240	A	G
ATP6V1E1	22	17627266	T	C
ATP6V1E1	22	17627292	T	C
ATP6V1E1	22	17607153	A	G
ATP6V1E1	22	17609299	T	C
ATP6V1E1	22	17609325	T	C
ATP6V1E1	22	17627182	G	C
ATP6V1E1	22	17627197	C	T
TXNRD2	22	19880695	A	G
TXNRD2	22	19895461	T	G
TXNRD2	22	19919576	C	A
TXNRD2	22	19919595	G	A
TXNRD2	22	19894303	A	G
TXNRD2	22	19895107	G	A
TXNRD2	22	19898453	C	T
TXNRD2	22	19918988	G	A
TXNRD2	22	19875633	TG	T
TXNRD2	22	19880248	C	T
TXNRD2	22	19894592	A	G
TXNRD2	22	19898050	C	G
TXNRD2	22	19875619	T	C
HIC2	22	21447299	T	A
HIC2	22	21447200	C	A
HIC2	22	21450228	CA	C
HIC2	22	21442805	C	G
HIC2	22	21442813	G	C
HIC2	22	21445753	T	C
PPM1F	22	21919648	C	T
PPM1F	22	21919838	C	T
PPM1F	22	21920633	G	A
PPM1F	22	21922934	C	T
PPM1F	22	21919649	G	A
PPM1F	22	21921983	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PPM1F	22	21934188	G	A
PPM1F	22	21951341	A	G
PPM1F	22	21921151	C	T
PPM1F	22	21933490	G	A
PPM1F	22	21934027	C	T
PPM1F	22	21951257	A	G
PPM1F	22	21920570	C	T
PPM1F	22	21921269	G	A
PPM1F	22	21920094	G	T
PPM1F	22	21922274	G	C
PPM1F	22	21923449	G	A
PPM1F	22	21925585	G	T
PPM1F	22	21927890	C	T
PPM1F	22	21928404	A	G
PPM1F	22	21923656	C	T
PPM1F	22	21920177	C	T
PPM1F	22	21920372	G	A
OSM	22	30263577	G	A
OSM	22	30264528	A	C
OSM	22	30264506	C	T
OSM	22	30265195	T	C
OSM	22	30266824	C	T
OSM	22	30263068	G	A
OSM	22	30264532	C	T
OSM	22	30264489	G	T
RPL3	22	39316702	T	G
RPL3	22	39316705	C	T
RPL3	22	39316976	A	G
RPL3	22	39318485	C	T
RPL3	22	39313771	T	C
RPL3	22	39316931	G	A
RPL3	22	39317100	C	T
RPL3	22	39317123	A	G
RPL3	22	39314239	G	A
RPL3	22	39319603	C	T
RTL6	22	44493506	C	T
RTL6	22	44493462	G	C
RTL6	22	44493040	G	C
RTL6	22	44494019	TA	T
RTL6	22	44494117	G	A
RTL6	22	44494965	C	C
RTL6	22	44495367	A	G
RTL6	22	44496169	G	A
RTL6	22	44496170	A	T
RTL6	22	44496178	G	A
RTL6	22	44494312	T	G
RTL6	22	44494462	C	CT

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RTL6	22	44494649	TTGTGGACAGGGAGTG (SEQ ID No: 62)	T
RTL6	22	44494724	T	C
RTL6	22	44494738	A	G
RTL6	22	44494771	T	C
RTL6	22	44494778	T	C
RTL6	22	44494792	C	T
RTL6	22	44494805	C	G
RTL6	22	44495490	T	C
RTL6	22	44495519	C	G
RTL6	22	44495547	AAGG	A
RTL6	22	44495993	A	G
RTL6	22	44496255	A	G
RTL6	22	44496671	G	C
AL022328.4	22	50200073	T	C
AL022328.4	22	50200524	A	G
AL022328.4	22	50199657	C	G
AL022328.4	22	50200382	G	A
AL022328.4	22	50200630	G	T
AL022328.4	22	50200049	T	C
SELENOO	22	50201044	T	C
SELENOO	22	50201099	T	C
SELENOO	22	50202922	G	A
SELENOO	22	50204620	(various)	C
SELENOO	22	50209537	A	G
SELENOO	22	50217247	G	A
SELENOO	22	50201536	C	A
SELENOO	22	50204348	C	T
SELENOO	22	50204364	C	G
SELENOO	22	50217279	G	A
SELENOO	22	50208507	G	C
SELENOO	22	50207773	G	A
SELENOO	22	50201207	C	G
SELENOO	22	50203930	C	T
SELENOO	22	50207889	G	A
SELENOO	22	50210252	C	T
SELENOO	22	50212168	G	C
SELENOO	22	50217271	G	A
TUBGCP6	22	50218581	C	G
TUBCCP6	22	50224346	CA	C
TUBGCP6	22	50219624	A	G
TUBGCP6	22	50220072	A	G
TUBGCP6	22	50217999	G	A
TUBGCP6	22	50219995	T	C
TUBGCP6	22	50220065	C	A
TUBGCP6	22	50220269	T	A
TUBGCP6	22	50226183	A	G
TUBGCP6	22	50217771	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TUBGCP6	22	50220141	A	G
NCAPH2	22	50523425	T	C
NCAPH2	22	50523779	T	C
NCAPH2	22	50523830	G	A
NCAPH2	22	50524353	C	G
NCAPH2	22	50523323	G	A
NCAPH2	22	50523357	C	T
NCAPH2	22	50518686	C	T
NCAPH2	22	50523699	G	A
NCAPH2	22	50524085	G	A
NCAPH2	22	50523649	G	T
SETD5	3	9456890	T	C
SETD5	3	9473370	T	C
SETD5	3	9400053	G	A
SETD5	3	9454472	A	G
SETD5	3	9456459	G	A
SETD5	3	9456835	G	A
SETD5	3	9457372	C	A
SETD5	3	9459629	A	C
SETD5	3	9462415	G	A
SETD5	3	9462586	CA	C
SETD5	3	9476827	C	T
SETD5	3	9475893	C	T
SETD5	3	9399827	CA	C
SETD5	3	9406540	G	A
SETD5	3	9406681	C	T
SETD5	3	9406983	G	A
SETD5	3	9456286	G	A
SETD5	3	9456344	C	T
SETD5	3	9456346	T	C
SETD5	3	9457373	G	A
SETD5	3	9458517	G	A
SETD5	3	9466473	A	C
SETD5	3	9477123	G	C
SETD5	3	9399902	CAG	C
SETD5	3	9477679	AT	A
SETD5	3	9456764	A	G
SETD5	3	9466305	A	G
SETD5	3	9467263	G	A
SETD5	3	9399858	G	T
SETD5	3	9475685	C	T
SETD5	3	9476459	TA	T
SETD5	3	9462575	A	G
SETD5	3	9476422	C	T
SETD5	3	9476955	G	A
SETD5	3	9406483	C	G
SETD5	3	9406704	G	A
SETD5	3	9435243	CAA	C
SETD5	3	9476399	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CIDECP1	3	10017974	G	T
CIDECP1	3	10017980	T	C
CIDECP1	3	10017752	T	C
CIDECP1	3	10023742	C	T
CIDECP1	3	10026110	A	G
CIDECP1	3	10026113	T	C
CIDECP1	3	10023203	G	C
CIDECP1	3	10023570	G	A
CIDECP1	3	10017710	T	G
CIDECP1	3	10022580	GGT	G
CIDECP1	3	10020530	A	G
CIDECP1	3	10026288	C	T
EOMES	3	27716646	C	G
EOMES	3	27716783	G	T
EOMES	3	27716784	G	T
GLB1	3	33014229	A	G
GLB1	3	33097052	A	G
GLB1	3	33097057	G	A
GLB1	3	33090652	A	G
GLB1	3	33091381	A	G
GLB1	3	33014196	T	C
GLB1	3	33083756	T	C
GLB1	3	33058199	C	T
GLB1	3	33045357	T	C
GLB1	3	33045401	T	C
GLB1	3	33042392	A	G
GLB1	3	33045565	T	C
GLB1	3	33045389	G	C
GLB1	3	33085373	T	C
TRAK1	3	42019072	A	G
TRAK1	3	42106807	A	G
TRAK1	3	42194923	A	G
TRAK1	3	42197580	A	G
TRAK1	3	42211598	G	A
TRAK1	3	42078702	A	G
TRAK1	3	42106201	C	G
TRAK1	3	42210376	CT	C
TRAK1	3	42210403	TA	T
TRAK1	3	42210649	A	G
TRAK1	3	42210782	G	A
TRAK1	3	42211432	C	C
TRAK1	3	42212172	C	T
TRAK1	3	42212265	C	T
TRAK1	3	42224868	T	C
TRAK1	3	42209771	C	T
TRAK1	3	42209837	C	T
TRAK1	3	42224854	A	G
TRAK1	3	42224857	C	T
TRAK1	3	42225129	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TRAK1	3	42157152	G	A
TRAK1	3	42211854	C	T
TRAK1	3	42212241	T	C
TRAK1	3	42063717	A	G
TRAK1	3	42069305	A	G
TRAK1	3	42069351	G	T
TRAK1	3	42071677	T	C
TRAK1	3	42075265	T	C
TRAK1	3	42078499	A	G
TRAK1	3	42106474	T	G
TRAK1	3	42107489	T	C
TRAK1	3	42018266	TA	T
TRAK1	3	42019424	T	C
TRAK1	3	42019018	A	G
TRAK1	3	42075218	A	G
TRAK1	3	42078606	A	G
TRAK1	3	42108492	TA	T
TRAK1	3	42131994	A	G
TRAK1	3	42022719	T	C
TRAK1	3	42210692	C	A
TRAK1	3	42018910	T	C
TRAK1	3	42078570	A	G
TRAK1	3	42200926	C	A
TRAK1	3	42204023	T	C
TKT	3	53225305	IL10R (SEQ ID No: 63)	T
TKT	3	53225355	G	C
TKT	3	53225592	C	T
TKT	3	53225834	C	T
TKT	3	53230469	A	G
TKT	3	53235030	T	C
TKT	3	53235147	G	A
TKT	3	53225139	T	A
TKT	3	53224997	C	T
TKT	3	53225202	T	C
TKT	3	53255957	G	C
ATXN7	3	63996406	G	A
ATXN7	3	64000494	A	G
ATXN7	3	64002495	C	T
ATXN7	3	63878936	T	C
ATXN7	3	63999481	C	A
ATXN7	3	64000370	CT	C
ATXN7	3	64002498	C	T
ATXN7	3	63956512	C	G
ATXN7	3	63864622	T	G
ATXN7	3	63864623	G	C
ATXN7	3	63982407	A	G
ATXN7	3	63995748	A	G
ATXN7	3	64001337	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ATXN7	3	64002516	CGT	C
ATXN7	3	64002715	C	G
ATXN7	3	64000218	AT	A
ATXN7	3	63996617	TAAA	T
FRMD4B	3	69169545	T	C
FRMD4B	3	69170657	T	A
FRMD4B	3	69171056	A	C
FRMD4B	3	69542216	A	G
FRMD4B	3	69542303	C	A
FRMD4B	3	69180910	G	A
FRMD4B	3	69169310	C	T
FRMD4B	3	69170928	C	T
FRMD4B	3	69171533	G	C
FRMD4B	3	69181650	G	A
FRMD4B	3	69169609	G	A
FRMD4B	3	69413017	G	A
FRMD4B	3	69170796	G	A
GOLGB1	3	121694045	A	G
GOLGB1	3	121716774	T	C
GOLGB1	3	121673093	G	A
GOLGB1	3	121716777	C	T
GOLGB1	3	121663357	C	T
GOLGB1	3	121664330	TC	T
GOLGB1	3	121664450	G	A
GOLGB1	3	121683081	T	C
GOLGB1	3	121694790	G	A
GOLGB1	3	121663333	A	G
GOLGB1	3	121668937	T	G
GOLGB1	3	121695370	C	A
GOLGB1	3	121696763	G	A
GOLGB1	3	121697776	G	C
PARP9	3	122540759	T	C
PARP9	3	122562494	T	G
PARP9	3	122539209	G	A
PARP9	3	122540793	T	C
PARP9	3	122547306	A	G
PARP9	3	122549208	A	G
PARP9	3	122561899	C	T
PARP9	3	122562501	A	T
PARP9	3	122562156	CICTTT	C
PARP9	3	122535922	C	A
ANKUB1	3	149960546	T	C
ANKUB1	3	149960747	C	T
ANKUB1	3	149923659	A	G
ANKUB1	3	149813390	T	G
ANKUB1	3	149832649	C	T
ANKUB1	3	149961374	A	AA
ANKUB1	3	149961227	T	G
ANKUB1	3	149814421	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ANKUB1	3	149900875	A	G
ANKUB1	3	149861207	A	T
ANKUB1	3	149813252	TGG	T
ANKUB1	3	149961458	C	T
ANKUB1	3	149923999	G	A
ANKUB1	3	149923516	C	T
TSC22D2	3	150410367	T	C
TSC22D2	3	150410697	C	A
TSC22D2	3	150411207	T	G
TSC22D2	3	150413561	GT	G
TSC22D2	3	150428678	A	T
TSC22D2	3	150446289	C	T
TSC22D2	3	150446290	G	A
TSC22D2	3	150410605	G	A
TSC22D2	3	150416664	G	A
TSC22D2	3	150437709	G	T
TSC22D2	3	150409752	C	T
TSC22D2	3	150431202	G	T
TSC22D2	3	150437763	G	A
TSC22D2	3	150459117	TCA	T
TSC22D2	3	150459826	(various)	T
TSC22D2	3	150465248	C	T
TSC22D2	3	150437441	T	C
TSC22D2	3	150414252	G	A
TSC22D2	3	150416517	G	A
TSC22D2	3	150417046	A	T
TSC22D2	3	150428403	A	G
TSC22D2	3	150413887	TA	T
TSC22D2	3	150437333	T	C
TSC22D2	3	150437569	G	A
TSC22D2	3	150456417	A	G
TSC22D2	3	150466191	TCACA	T
TSC22D2	3	150421573	A	G
TSC22D2	3	150446093	CA	C
TSC22D2	3	150459572	GT	G
TSC22D2	3	150410161	G	A
TSC22D2	3	150431309	A	G
TSC22D2	3	150458534	C	G
TSC22D2	3	150428615	T	A
TSC22D2	3	150430244	C	T
TSC22D2	3	150446132	A	G
EIF4A2	3	186783713	C	A
EIF4A2	3	186785646	G	A
EIF4A2	3	186788111	T	G
EIF4A2	3	186788764	GCT	G
EIF4A2	3	186783859	T	C
EIF4A2	3	186787917	A	C
EIF4A2	3	186788415	G	A
EIF4A2	3	186785707	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EIF4A2	3	186789604	T	C
DGKQ	4	960186	T	G
DCKQ	4	960487	T	C
DGKQ	4	960489	T	C
DGKQ	4	960523	C	T
DCKQ	4	959405	TC	T
DGKQ	4	967585	G	A
DGKQ	4	959910	A	C
DGKQ	4	960597	C	A
DGKQ	4	960459	G	T
MED28	4	17624035	A	G
MED28	4	17624551	T	A
MED28	4	17624554	CTG	C
MED28	4	17624795	G	A
MED28	4	17629630	T	C
MED28	4	17625223	G	A
MED28	4	17625671	A	G
MED28	4	17625709	T	C
MED28	4	17624551	T	C
MED28	4	17623586	G	C
MED28	4	17627754	A	G
MED28	4	17627817	A	G
MED28	4	17623264	G	T
MED28	4	17623268	G	A
RPL9	4	39452701	G	A
RPL9	4	39453758	A	G
RPL9	4	39455015	T	C
RPL9	4	39456431	A	G
RPL9	4	39458732	C	G
RPL9	4	39455302	G	C
RPL9	4	39455533	C	T
RPL9	4	39455810	T	C
RPL9	4	39455997	G	A
RPL9	4	39456237	T	C
RPL9	4	39456250	T	TG
RPL9	4	39458911	G	A
RPL9	4	39458915	G	A
RPL9	4	39454532	C	A
RPL9	4	39455849	A	T
RPL9	4	39458708	G	A
RPL9	4	39456390	C	C
RPL9	4	39452796	A	G
RPL9	4	39458793	C	A
RPL9	4	39458584	CCA	C
SRP72	4	56490422	A	G
SRP72	4	56502496	CAT	C
SRP72	4	56502641	C	T
SRP72	4	56467656	G	T
SRP72	4	56502034	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SRP72	4	56502247	G	A
SRP72	4	56502593	A	G
SRP72	4	56503174	C	C
SRP72	4	56495387	A	G
SRP72	4	56495396	T	A
SRP72	4	56502303	A	G
SRP72	4	56503464	A	G
SRP72	4	56475517	A	G
SRP72	4	56475519	A	G
DAPP1	4	99863823	C	T
DAPP1	4	99869171	G	A
DAPP1	4	99869150	G	A
DAPP1	4	99869383	G	A
DAPP1	4	99827327	G	A
DAPP1	4	99869657	C	T
DAPP1	4	99869925	G	A
DAPP1	4	99868259	G	A
DAPP1	4	99870006	T	C
DAPP1	4	99816878	G	T
MARCHF1	4	163525131	T	A
MARCHF1	4	163525851	T	C
MARCHF1	4	163525870	T	C
MARCHF1	4	163526119	T	C
MARCHF1	4	163526824	C	A
MARCHF1	4	163526897	C	T
MARCHF1	4	163528121	G	A
MARCHF1	4	163525362	G	A
MARCHF1	4	163527405	G	C
MARCHF1	4	163526664	C	T
MARCHF1	4	163527516	AGATT	A
MARCHF1	4	163576225	C	T
MARCHF1	4	163545672	C	T
CEP44	4	174316257	T	C
CEP44	4	174319778	TTATC	T
CEP44	4	174319977	A	T
CEP44	4	174319367	T	C
CEP44	4	174318127	G	C
CEP44	4	174318167	G	A
CEP44	4	174304301	G	A
CEP44	4	174318846	A	G
CEP44	4	174318503	TTAC	T
CEP44	4	174318221	G	A
CEP44	4	174319188	A	T
IRF2	4	184388206	CGGGAT	C
IRF2	4	184474441	A	G
IRF2	4	184389064	C	T
IRF2	4	184436126	A	G
IRF2	4	184466067	G	T
IRF2	4	184387821	TA	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IRF2	4	184395211	A	T
IRF2	4	184396426	AT	A
IRF2	4	184435742	T	C
IRF2	4	184436071	G	C
IRF2	4	184388899	G	A
IRF2	4	184473347	G	C
SETD9	5	56911296	T	A
SETD9	5	56913908	A	G
SETD9	5	56922202	C	T
SETD9	5	56922724	C	G
SETD9	5	56920115	T	C
SETD9	5	56919926	G	A
SETD9	5	56921369	A	G
SETD9	5	56921418	A	C
SETD9	5	56921514	C	T
SETD9	5	56921702	T	C
SETD9	5	56911965	C	T
KIF2A	5	62387298	G	C
KIF2A	5	62389055	GA	G
KIF2A	5	62389599	T	C
KIF2A	5	62387764	ATAT	A
KIF2A	5	62390117	A	G
KIF2A	5	62324144	A	G
KIF2A	5	62330435	A	G
KIF2A	5	62323238	G	A
KIF2A	5	62387754	C	T
KIF2A	5	62388133	A	G
KIF2A	5	62388203	T	C
KIF2A	5	62388307	A	C
KIF2A	5	62390820	C	T
KIF2A	5	62323395	C	T
KIF2A	5	62323424	G	A
NSA2	5	74767329	C	G
NSA2	5	74774038	A	G
NSA2	5	74778597	TA	T
NSA2	5	74779533	G	A
NSA2	5	74768989	A	G
NSA2	5	74777717	G	A
NSA2	5	74779604	C	G
GCNT4	5	75027764	C	T
GCNT4	5	75028612	C	A
GCNT4	5	75026683	G	C
GCNT4	5	75027704	G	C
GCNT4	5	75028723	G	A
GCNT4	5	75029077	C	T
GCNT4	5	75025728	C	T
GCNT4	5	75027659	T	G
GCNT4	5	75028307	A	G
GCNT4	5	75028626	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GCNT4	5	75047944	G	A
CERT1	5	75385948	T	C
CERT1	5	75443477	A	C
CERT1	5	75453825	TGA	T
CERT1	5	75490637	T	C
CERT1	5	75378053	T	C
CERT1	5	75378054	T	C
CERT1	5	75409831	GT	G
CERT1	5	75371906	A	C
CERT1	5	75377851	T	C
CERT1	5	75378006	T	C
CERT1	5	75372764	C	T
CERT1	5	75409811	A	G
CERT1	5	75447709	C	T
CERT1	5	75490258	G	A
CERT1	5	75500932	G	A
CERT1	5	75378189	G	A
CERT1	5	75490507	A	T
CERT1	5	75443331	G	A
CERT1	5	75452680	C	T
CERT1	5	75490933	T	G
CERT1	5	75409855	C	G
CERT1	5	75370667	C	T
CERT1	5	75379369	C	T
CERT1	5	75434551	T	A
CERT1	5	75491084	T	C
CERT1	5	75371281	T	C
CERT1	5	75490500	TTTA	T
CERT1	5	75377997	T	C
RASA1	5	87365193	C	G
RASA1	5	87374459	AT	A
RASA1	5	87375153	T	C
RASA1	5	87374461	T	A
RASA1	5	87278390	CA	C
RASA1	5	87314133	A	G
RASA1	5	87365237	T	A
RASA1	5	87375303	C	G
RASA1	5	87389741	A	C
RASA1	5	87376026	T	C
RASA1	5	87278472	G	A
RASA1	5	87363002	C	T
RASA1	5	87374147	AT	A
RASA1	5	87360273	C	T
RASA1	5	87374147	A	T
PPIP5K2	5	103184699	A	C
PPIP5K2	5	103201678	A	G
PPIP5K2	5	103203051	T	C
PPIP5K2	5	103201597	C	T
PPIP5K2	5	103202399	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PP1P5K2	5	103201739	G	A
PKD2L2	5	137939426	G	A
PKD2L2	5	137939510	T	C
PKD2L2	5	137939726	G	A
ADRB2	5	148826785	C	T
ADRB2	5	148826812	C	T
ADRB2	5	148826877	G	A
ADRB2	5	148826910	G	C
ADRB2	5	148827884	G	C
ADRB2	5	148828070	G	A
ADRB2	5	148827083	G	A
ADRB2	5	148827354	C	A
ADRB2	5	148828005	G	A
ADRB2	5	148828096	AC	A
SLC36A1	5	151447740	G	A
SLC36A1	5	151447741	C	CGAG
SLC36A1	5	151447743	G	T
SLC36A1	5	151468094	G	C
SLC36A1	5	151491519	T	TC
SLC36A1	5	151452539	A	G
SLC36A1	5	151463604	C	G
SLC36A1	5	151452428	A	G
SLC36A1	5	151453059	C	T
SLC36A1	5	151467489	G	C
SLC36A1	5	151467944	T	C
SLC36A1	5	151467948	A	G
SLC36A1	5	151467993	T	C
SLC36A1	5	151492113	A	G
SLC36A1	5	151465086	C	G
SLC36A1	5	151492108	G	A
SLC36A1	5	151447698	C	T
SLC36A1	5	151491719	T	C
SLC36A1	5	151492035	A	T
SLC36A1	5	151492234	C	T
SLC36A1	5	151467374	A	T
SLC36A1	5	151491042	G	A
SLC36A1	5	151492351	C	T
MGAT1	5	180791668	A	G
MGAT1	5	180795277	GTA	G
MGAT1	5	180796722	T	C
MGAT1	5	180788027	TGCAGCA	T
MGAT1	5	180812933	T	C
MGAT1	5	180812934	T	C
MGAT1	5	180813026	T	C
MGAT1	5	180791820	C	A
MGAT1	5	180791831	G	A
MGAT1	5	180792304	C	T
MGAT1	5	180803642	C	G
MGAT1	5	180803661	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MGAT1	5	180792985	G	A
MGAT1	5	180795131	C	G
MGAT1	5	180795229	A	C
MGAT1	5	180795439	G	T
MGAT1	5	180795472	A	G
MGAT1	5	180795789	C	A
MGAT1	5	180795846	G	A
MGAT1	5	180796596	A	G
MGAT1	5	180795068	G	A
MGAT1	5	180795312	T	C
MGAT1	5	180808800	C	T
MGAT1	5	180813754	C	T
MGAT1	5	180814640	G	A
MGAT1	5	180794355	T	C
MGAT1	5	180796416	G	A
MGAT1	5	180796814	G	A
MGAT1	5	180796831	T	C
MGAT1	5	180814057	G	T
MGAT1	5	180784859	C	A
MGAT1	5	180791123	CCCA	C
MGAT1	5	180792838	C	T
MGAT1	5	180792842	C	T
MGAT1	5	180813549	C	T
MGAT1	5	180814414	T	C
WRNIP1	6	2765910	T	C
WRNIP1	6	2766231	T	C
WRNIP1	6	2784337	G	A
WRNIP1	6	2785425	G	A
WRNIP1	6	2785402	G	T
NQO2	6	3010156	C	T
NQO2	6	3015556	A	G
NQO2	6	3016456	G	A
NQO2	6	3016498	G	A
NQO2	6	3018470	A	G
NQO2	6	3019420	T	C
NQO2	6	3020181	A	G
NQO2	6	3020196	C	G
NQO2	6	3020455	C	T
NQO2	6	3020531	G	A
NQO2	6	3020558	G	A
NQO2	6	3020755	C	G
NQO2	6	3020796	G	T
NQO2	6	3021044	C	G
NQO2	6	3021096	T	C
NQO2	6	3021258	A	G
NQO2	6	3021560	A	G
NQO2	6	3000069	A	C
NQO2	6	2999094	A	G
NQO2	6	2999137	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NQO2	6	3003680	T	C
NQO2	6	3003681	T	C
NQO2	6	3003683	T	C
NQO2	6	3003736	A	G
NQO2	6	3010103	A	G
NQO2	6	3015631	C	T
NQO2	6	3019693	G	C
NQO2	6	3008369	G	A
NQO2	6	3008446	G	A
NQO2	6	3010064	A	G
NQO2	6	3016904	C	T
NQO2	6	3019059	G	A
NQO2	6	3019400	C	T
NQO2	6	3019846	G	T
NQO2	6	3020274	AT	A
NQO2	6	3021001	G	A
NQO2	6	3021282	C	G
NQO2	6	3021632	C	T
NQO2	6	3021109	T	C
NQO2	6	3021464	T	C
NQO2	6	2993984	C	T
NQO2	6	3006453	C	T
NQO2	6	3008393	C	T
NQO2	6	3008431	AAAG	A
NQO2	6	3020464	ATTTTCTTTTCTTTCTT TC (SEQ ID No: 64)	A
NQO2	6	3016510	G	A
NQO2	6	3019179	G	T
NQO2	6	3021122	T	C
NQO2	6	3020210	T	C
NQO2	6	3021118	T	C
NQO2	6	3021333	C	T
NQO2	6	3018540	G	C
NQO2	6	3018225	A	G
NQO2	6	3016430	CA	C
NQO2	6	2999878	A	G
SNRNP48	6	7601487	C	T
SNRNP48	6	7610894	AC	A
SNRNP48	6	7590391	C	T
SNRNP48	6	7602624	C	T
SNRNP48	6	7608884	T	C
SNRNP48	6	7610124	G	A
SNRNP48	6	7610584	G	A
SNRNP48	6	7610885	A	G
SNRNP48	6	7608503	A	G
SNRNP48	6	7611537	G	A
SNRNP48	6	7611805	C	T
SNRNP48	6	7608387	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SNRNP48	6	7610253	G	A
SNRNP48	6	7610819	C	T
SNRNP48	6	7611759	TTTTCTG	T
BMP6	6	7772107	T	G
BMP6	6	7790302	T	C
BMP6	6	7812801	T	A
BMP6	6	7812819	G	A
BMP6	6	7812890	C	A
BMP6	6	7812830	A	G
BMP6	6	7813598	A	G
BMP6	6	7813708	T	C
BMP6	6	7814191	T	C
BMP6	6	7881698	T	C
BMP6	6	7730603	A	G
BMP6	6	7730597	G	T
BMP6	6	7746117	A	G
BMP6	6	7771737	G	A
BMP6	6	7813861	T	G
BMP6	6	7814006	C	T
BMP6	6	7825674	T	C
BMP6	6	7838891	G	A
BMP6	6	7727038	C	A
BMP6	6	7881078	A	G
BMP6	6	7881521	A	T
BMP6	6	7746028	G	A
BMP6	6	7755528	C	T
BMP6	6	7838867	G	A
BMP6	6	7861205	C	CT
BMP6	6	7862398	G	C
BMP6	6	7872320	A	G
AL645929.1	6	29888222	G	C
AL645929.1	6	29887984	A	G
AL645929.1	6	29887900	G	A
AL645929.1	6	29887905	T	G
AL645929.1	6	29887929	C	G
AL645929.1	6	29888168	A	G
AL645929.1	6	29888175	A	C
AL645929.1	6	29888183	A	G
AL645929.1	6	29888222	G	A
AL645929.1	6	29888023	T	A
AL645929.1	6	29888028	C	C
AL645929.1	6	29887609	C	T
AL645929.1	6	29887615	T	G
AL645929.1	6	29887632	A	G
AL645929.1	6	29888245	G	A
HLA-DPA1	6	33065191	G	A
HLA-DPA1	6	33065198	T	C
HLA-DPA1	6	33065245	A	G
HLA-DPA1	6	33065278	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HLA-DPA1	6	33065281	T	C
HLA-DPA1	6	33068513	G	A
HLA-DPA1	6	33068658	T	C
HLA-DPA1	6	33068728	G	C
HLA-DPA1	6	33069076	A	C
HLA-DPA1	6	33069222	T	C
HLA-DPA1	6	33069642	G	A
HLA-DPA1	6	33069647	T	C
HLA-DPA1	6	33069745	T	C
HLA-DPA1	6	33069849	C	G
HLA-DPA1	6	33080765	C	T
HLA-DPA1	6	33069174	A	G
HLA-DPA1	6	33069182	G	A
HLA-DPA1	6	33069194	C	T
HLA-DPA1	6	33069780	C	T
HLA-DPA1	6	33069783	G	A
HLA-DPA1	6	33069802	A	T
HLA-DPA1	6	33069803	T	G
HLA-DPA1	6	33080680	C	G
HLA-DPA1	6	33080682	T	G
HLA-DPA1	6	33080684	T	A
HLA-DPA1	6	33080762	T	A
HLA-DPA1	6	33065074	T	C
HLA-DPA1	6	33080689	G	T
HLA-DPA1	6	33080690	G	T
HLA-DPA1	6	33068083	G	A
HLA-DPA1	6	33069035	C	T
HLA-DPA1	6	33065045	G	A
HLA-DPA1	6	33065054	G	A
HLA-DPA1	6	33065084	G	A
HLA-DPA1	6	33065088	A	C
HLA-DPA1	6	33065128	T	C
HLA-DPA1	6	33065136	C	T
HLA-DPA1	6	33065140	A	G
HLA-DPA1	6	33065143	G	GTCAACATTTAT (SEQ ID No: 65)
HLA-DPA1	6	33066230	T	C
HLA-DPA1	6	33066336	T	C
HLA-DPA1	6	33067884	A	G
HLA-DPA1	6	33067891	T	C
HLA-DPA1	6	33067892	C	A
HLA-DPA1	6	33067893	A	G
HLA-DPA1	6	33068052	T	C
HLA-DPA1	6	33068068	G	A
HLA-DPA1	6	33068078	T	A
HLA-DPA1	6	33068100	A	G
HLA-DPA1	6	33068110	G	C
HLA-DPA1	6	33068148	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HLA-DPA1	6	33068511	G	A
HLA-DPA1	6	33068535	A	G
HLA-DPA1	6	33068611	C	T
HLA-DPA1	6	33068617	G	A
HLA-DPA1	6	33068622	C	CT
HLA-DPA1	6	33069173	C	T
HLA-DPA1	6	33069810	T	A
HLA-DPA1	6	33069819	T	C
HLA-DPA1	6	33069834	C	T
HLA-DPA1	6	33069842	G	T
HLA-DPA1	6	33073562	A	T
HLA-DPA1	6	33073572	T	C
HLA-DPA1	6	33073576	G	A
HLA-DPA1	6	33076027	T	C
HLA-DPA1	6	33076065	G	A
HLA-DPA1	6	33076088	C	T
HLA-DPA1	6	33065067	T	A
HLA-DPA1	6	33068624	C	T
HLA-DPA1	6	33069810	T	G
HLA-DPA1	6	33080755	G	C
HLA-DPB1	6	33084991	T	C
HLA-DPB1	6	33085026	C	A
HLA-DPB1	6	33085173	T	C
HLA-DPB1	6	33085181	C	T
HLA-DPB1	6	33085209	T	C
HLA-DPB1	6	33085905	G	A
HLA-DPB1	6	33086773	G	A
HLA-DPB1	6	33086775	C	G
HLA-DPB1	6	33086934	G	T
HLA-DPB1	6	33086944	C	T
HLA-DPB1	6	33087030	A	G
HLA-DPB1	6	33087084	A	G
HLA-DPB1	6	33087346	A	G
HLA-DPB1	6	33087381	A	G
HLA-DPB1	6	33087761	C	T
HLA-DPB1	6	33087828	G	A
HLA-DPB1	6	33087887	ATCT	A
HLA-DPB1	6	33088041	A	G
HLA-DPB1	6	33088122	G	A
HLA-DPB1	6	33085800	G	A
HLA-DPB1	6	33086782	T	C
HLA-DPB1	6	33087113	C	T
HLA-DPB1	6	33087232	C	A
HLA-DPB1	6	33087270	A	G
HLA-DPB1	6	33087302	A	G
HLA-DPB1	6	33087774	G	A
HLA-DPB1	6	33088003	C	T
HLA-DPB1	6	33089139	G	T
HLA-DPB1	6	33089276	CTT	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HLA-DPB1	6	33089436	C	T
HLA-DPB1	6	33089455	T	C
HLA-DPB1	6	33089467	T	C
HLA-DPB1	6	33080787	G	A
HLA-DPB1	6	33080822	C	A
HLA-DPB1	6	33080825	C	A
HLA-DPB1	6	33080863	A	G
HLA-DPB1	6	33089213	C	T
HLA-DPB1	6	33089217	G	C
HLA-DPB1	6	33080829	G	C
HLA-DPB1	6	33080851	A	C
HLA-DPB1	6	33080884	A	G
HLA-DPB1	6	33080886	G	A
HLA-DPB1	6	33084959	G	A
HLA-DPB1	6	33084966	T	C
HLA-DPB1	6	33085832	G	A
HLA-DPB1	6	33086548	G	C
HLA-DPB1	6	33086554	T	C
HLA-DPB1	6	33086565	T	A
HLA-DPB1	6	33086627	A	G
HLA-DPB1	6	33086633	A	C
HLA-DPB1	6	33086636	T	G
HLA-DPB1	6	33086637	T	A
HLA-DPB1	6	33086680	A	G
HLA-DPB1	6	33086686	C	T
HLA-DPB1	6	33085204	C	A
HLA-DPB1	6	33086775	CTGTT	C
HLA-DPB1	6	33088989	A	G
HLA-DPB1	6	33082576	C	T
HLA-DPB1	6	33086802	C	T
HLA-DPB1	6	33087739	T	C
HLA-DPB1	6	33088476	T	A
HLA-DPB1	6	33080864	A	G
HLA-DPB1	6	33080909	G	T
HLA-DPB1	6	33085221	C	T
HLA-DPB1	6	33085863	T	C
FGD2	6	37011807	C	T
FGD2	6	37020588	C	T
FGD2	6	37028997	C	G
FGD2	6	37008861	G	C
FCD2	6	37027446	C	A
FGD2	6	37029064	A	G
ENPP4	6	46144635	T	C
ENPP4	6	46145150	A	G
ENPP4	6	46145484	A	T
ENPP4	6	46145815	T	G
ENPP4	6	46146118	G	A
ENPP4	6	46142989	A	G
ENPP4	6	46143820	AAC	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ENPP4	6	46144652	A	G
ENPP4	6	46144687	T	A
ENPP4	6	46140015	C	C
ENPP4	6	46141179	C	G
TENT5A	6	81747267	C	T
TENT5A	6	81747430	C	G
TENT5A	6	81746866	A	T
TENT5A	6	81748922	G	T
TENT5A	6	81752157	C	A
TENT5A	6	81749417	G	A
TENT5A	6	81746334	T	C
TENT5A	6	81751803	A	G
RPF2	6	111025603	C	T
RPF2	6	111025605	G	A
RPF2	6	111027351	C	T
RPF2	6	111025640	G	A
RPF2	6	111025498	G	A
RPF2	6	110989049	G	A
CEP85L	6	118461942	G	A
CEP85L	6	118462360	T	C
CEP85L	6	118470641	T	C
CEP85L	6	118481928	C	G
CEP85L	6	118491647	ATGT	A
CEP85L	6	118565798	G	T
CEP85L	6	118462855	T	C
CEP85L	6	118461883	C	T
CEP85L	6	118632592	T	C
CEP85L	6	118461073	A	G
CEP85L	6	118461216	G	A
CEP85L	6	118527156	A	T
CEP85L	6	118465323	T	C
CEP85L	6	118527322	G	T
CEP85L	6	118662518	G	C
CEP85L	6	118706687	A	C
VKN2	6	132743880	T	C
VKN2	6	132749856	G	T
VKN2	6	132755757	A	G
VKN2	6	132751511	A	G
VKN2	6	132755924	T	C
VTA1	6	142220122	C	T
VTA1	6	142206005	A	G
VTA1	6	142206165	A	C
VTA1	6	142178264	G	A
VTA1	6	142220416	T	C
VTA1	6	142220632	A	T
VTA1	6	142208068	G	A
VTA1	6	142211712	T	A
ZC3H12D	6	149450208	T	C
ZC3H12D	6	149474556	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ZC3H12D	6	149448016	G	A
ZC3H12D	6	149448100	T	C
ZC3H12D	6	149449711	T	C
ZC3H12D	6	149474386	G	A
ZC3H12D	6	149448056	C	T
ZC3H12D	6	149449043	C	T
ZC3H12D	6	149449403	T	C
ZC3H12D	6	149449408	T	C
ZC3H12D	6	149449430	T	C
ZC3H12D	6	149451891	G	T
ZC3H12D	6	149453298	TA	T
ZC3H12D	6	149454131	T	C
ZC3H12D	6	149457537	C	T
ZC3H12D	6	149457675	C	G
ZC3H12D	6	149457756	G	A
ZC3H12D	6	149457928	C	T
ZC3H12D	6	149458049	G	A
ZC3H12D	6	149458168	C	G
ZC3H12D	6	149458170	G	A
ZC3H12D	6	149458228	A	C
ZC3H12D	6	149458374	A	C
ZC3H12D	6	149459156	CTTG	C
ZC3H12D	6	149460462	A	G
ZC3H12D	6	149448931	C	T
ZC3H12D	6	149449734	G	A
ZC3H12D	6	149458529	T	C
ZC3H12D	6	149448907	G	A
AL035530.2	6	159044945	T	C
AL035530.2	6	159034574	C	T
AL035530.2	6	159034763	C	G
AL035530.2	6	159034802	A	T
AL035530.2	6	159035179	C	A
AL035530.2	6	159035180	A	T
AL035530.2	6	159035234	C	T
AL035530.2	6	159035343	A	G
AL035530.2	6	159035577	T	C
AL035530.2	6	159035810	G	A
AL035530.2	6	159038799	G	T
AL035530.2	6	159038898	A	G
AL035530.2	6	159037333	T	C
AL035530.2	6	159038451	T	C
AL035530.2	6	159042932	T	C
FAM220A	7	6330563	C	T
FAM220A	7	6330674	C	G
FAM220A	7	6330775	C	T
FAM220A	7	6330513	G	A
TMEM106B	7	12232490	C	G
TMEM106B	7	12235882	T	C
TMEM106B	7	12236049	A	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TMEM106B	7	12236192	A	G
TMEM106B	7	12236408	T	A
TMEM106B	7	12236419	G	C
TMEM106B	7	12236896	G	T
TMEM106B	7	12232371	G	A
TMEM106B	7	12232942	A	T
TMEM106B	7	12236895	C	T
TMEM106B	7	12229791	C	G
TMEM106B	7	12232400	A	G
TMEM106B	7	12233526	A	G
TMEM106B	7	12233787	C	T
TMEM106B	7	12233870	G	A
TMEM106B	7	12236385	G	A
POLR1F	7	19696143	C	A
POLR1F	7	19696206	CA	C
POLR1F	7	19697721	GAA	G
POLR1F	7	19697403	T	A
POLR1F	7	19697848	T	G
POLR1F	7	19704794	T	C
POLR1F	7	19695639	A	C
CREB5	7	28410346	T	C
CREB5	7	28823043	C	T
CREB5	7	28823176	G	A
CREB5	7	28411204	G	A
CREB5	7	28693597	AAT	A
CREB5	7	28725646	A	T
CREB5	7	28742490	T	C
CREB5	7	28750602	A	ATT
CREB5	7	28803790	A	G
CREB5	7	28743554	C	A
CREB5	7	28409713	C	A
CREB5	7	28725659	A	G
CREB5	7	28790512	T	G
CREB5	7	28716164	A	G
AC004593.2	7	29238157	A	G
AC004593.2	7	29259175	A	G
AC004593.2	7	29259221	A	G
AC004593.2	7	29264916	A	C
AC004593.2	7	29402930	CTT	C
AC004593.2	7	29403455	G	A
AC004593.2	7	29404839	A	C
AC004593.2	7	29219630	T	C
AC004593.2	7	29220559	A	G
AC004593.2	7	29220702	C	T
AC004593.2	7	29264494	A	G
AC004593.2	7	29265047	C	A
AC004593.2	7	29329531	A	G
AC004593.2	7	29514017	A	T
AC004593.2	7	29513143	G	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC004593.2	7	29513161	T	C
AC004593.2	7	29328814	G	A
AC004593.2	7	29220402	G	A
AC004593.2	7	29242721	T	C
AC004593.2	7	29259054	T	G
AC004593.2	7	29259207	A	G
AC004593.2	7	29264924	AAGG	A
AC004593.2	7	29270434	AT	A
AC004593.2	7	29270553	A	G
AC004593.2	7	29270703	A	G
AC004593.2	7	29336794	C	A
AC004593.2	7	29381860	A	G
AC004593.2	7	29259064	A	G
AC004593.2	7	29270492	TA	T
AC004593.2	7	29513723	T	C
AC004593.2	7	29282870	C	T
AC004593.2	7	29218982	GA	G
AC004593.2	7	29220139	C	T
AC004593.2	7	29259056	A	G
AC004593.2	7	29259168	A	G
AC004593.2	7	29270674	TAATAA	T
AC004593.2	7	29329844	C	T
AC004593.2	7	29402699	G	C
AC004593.2	7	29403433	C	T
AC004593.2	7	29401402	G	T
AC004593.2	7	29259454	A	T
AC004593.2	7	29264820	GA	G
AC004593.2	7	29282967	G	C
AC004593.2	7	29323837	AATACAG	A
AC004593.2	7	29323990	C	T
AC004593.2	7	29328980	A	G
AC004593.2	7	29329759	A	G
AC004593.2	7	29332016	GAA	G
AC004593.2	7	29401462	A	G
GARS1-DT	7	30569687	CT	C
GARS1-DT	7	30595045	C	G
GARS1-DT	7	30572831	T	C
GARS1-DT	7	30595014	G	C
GARS1-DT	7	30569645	C	G
GARS1-DT	7	30577858	T	C
GARS1-DT	7	30577916	T	C
GARS1-DT	7	30579011	T	C
GARS1-DT	7	30560158	T	C
GARS1-DT	7	30566388	CT	C
GARS1-DT	7	30569806	TAA	T
GARS1-DT	7	30569520	C	G
GARS1-DT	7	30562025	G	A
GARS1-DT	7	30570595	T	C
HERPUD2	7	35693269	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HERPUD2	7	35693711	C	A
HERPUD2	7	35694633	C	A
HERPUD2	7	35694919	C	C
HERPUD2	7	35695033	CG	C
HERPUD2	7	35670232	C	T
HERPUD2	7	35690722	T	C
HERPUD2	7	35690809	CA	C
HERPUD2	7	35691391	CA	C
HERPUD2	7	35692422	C	T
HERPUD2	7	35693046	C	T
HERPUD2	7	35694981	A	AG
HERPUD2	7	35659740	A	T
HERPUD2	7	35693553	A	T
HERPUD2	7	35693991	T	C
HERPUD2	7	35634796	C	G
HERPUD2	7	35660203	C	G
HERPUD2	7	35662829	C	A
HERPUD2	7	35685422	T	C
HERPUD2	7	35633366	G	C
HERPUD2	7	35690208	T	C
HERPUD2	7	35689966	G	A
HERPUD2	7	35693676	C	T
TRGC2	7	38240062	T	C
TRGC2	7	38240124	G	A
TRGC2	7	38239847	G	C
TRGC2	7	38245203	T	C
TRGC2	7	38245207	A	C
TRGC2	7	38249484	G	A
TRGC2	7	38240623	A	C
TRGC2	7	38245193	C	T
TRGC2	7	38249520	C	T
KCTD7	7	66629683	A	T
KCTD7	7	66642037	C	T
KCTD7	7	66642265	T	C
KCTD7	7	66641888	A	G
KCTD7	7	66632346	T	G
KCTD7	7	66641312	A	G
SBDSP1	7	72829753	A	G
SBDSP1	7	72833890	GT	G
BUD23	7	73698137	G	A
BUD23	7	73697174	A	C
BUD23	7	73703580	C	T
BUD23	7	73698011	C	T
BUD23	7	73700110	G	C
BUD23	7	73696570	C	T
BUD23	7	73700151	C	T
BUD23	7	73700871	G	A
BUD23	7	73703090	T	C
BUD23	7	73683589	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
BUD23	7	73700059	C	T
CCDC146	7	77256452	A	G
CCDC146	7	77311296	A	C
CCDC146	7	77322462	T	C
CCDC146	7	77322604	T	A
CCDC146	7	77322948	C	A
CCDC146	7	77322972	A	T
CCDC146	7	77310814	AAAAT	A
CCDC146	7	77199636	C	T
CCDC146	7	77302928	C	T
CCDC146	7	77307450	AT	A
CCDC146	7	77329413	A	G
CCDC146	7	77322323	G	A
CCDC146	7	77325024	T	C
CCDC146	7	77312230	C	A
CCDC146	7	77312232	A	AAT
CCDC146	7	77305437	T	C
CCDC146	7	77321859	T	A
CCDC146	7	77259066	A	AA
PTPN12	7	77572940	A	G
PTPN12	7	77624156	G	A
PTPN12	7	77537958	T	G
PTPN12	7	77572919	T	C
PTPN12	7	77618504	G	A
PTPN12	7	77629966	A	C
PTPN12	7	77571075	A	T
PTPN12	7	77584674	G	A
PTPN12	7	77629696	T	C
PTPN12	7	77558741	A	G
PTPN12	7	77609905	C	A
PTPN12	7	77620961	C	G
PTPN12	7	77573861	A	G
PTPN12	7	77573886	A	G
PTPN12	7	77573902	A	G
PTPN12	7	77590985	C	T
PTPN12	7	77624187	A	G
PTPN12	7	77627396	A	G
PTPN12	7	77540465	C	G
PTPN12	7	77542637	G	A
PTPN12	7	77572851	G	A
PTPN12	7	77572968	A	C
PTPN12	7	77573097	C	A
PTPN12	7	77573105	C	A
PTPN12	7	77573377	G	C
PTPN12	7	77584046	A	G
PTPN12	7	77584311	G	C
PTPN12	7	77584731	G	A
PTPN12	7	77584745	C	T
PTPN12	7	77585165	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PTPN12	7	77593039	C	G
PTPN12	7	77593254	G	C
PTPN12	7	77593569	A	C
PTPN12	7	77598502	C	T
PTPN12	7	77602488	A	G
PTPN12	7	77609643	A	G
PTPN12	7	77620953	T	TA
PTPN12	7	77621051	CAT	C
PTPN12	7	77624949	A	G
PTPN12	7	77629087	A	G
PTPN12	7	77629091	A	G
PTPN12	7	77633363	A	G
PTPN12	7	77633534	C	A
PTPN12	7	77636636	T	C
PTPN12	7	77622091	A	G
PTPN12	7	77538247	T	C
PTPN12	7	77558210	(various)	C
PTPN12	7	77562854	T	C
PTPN12	7	77605744	C	A
PTPN12	7	77636008	C	T
PTPN12	7	77622654	C	T
PTPN12	7	77629714	C	A
PTPN12	7	77582728	A	G
PTPN12	7	77635823	G	A
RSBN1L	7	77736453	A	G
RSBN1L	7	77696602	G	A
RSBN1L	7	77779443	CAT	C
RSBN1L	7	77780224	T	C
RSBN1L	7	77780997	G	C
RSBN1L	7	77782409	C	A
AG3L5P-PVRIG2P-PI	7	100359505	GCCT	G
AG3L5P-PVRIG2P-PI	7	100358941	G	A
AG3L5P-PVRIG2P-PI	7	100355205	C	T
AG3L5P-PVRIG2P-PI	7	100355962	A	G
AG3L5P-PVRIG2P-PI	7	100355967	A	G
AG3L5P-PVRIG2P-PI	7	100356089	A	G
AG3L5P-PVRIG2P-PI	7	100357741	G	A
AG3L5P-PVRIG2P-PI	7	100358015	TA	T
AG3L5P-PVRIG2P-PI	7	100358243	G	A
AG3L5P-PVRIG2P-PI	7	100367662	T	C
AG3L5P-PVRIG2P-PI	7	100367705	CA	G
AG3L5P-PVRIG2P-PI	7	100352383	C	T
HBP1	7	107185936	C	T
HBP1	7	107171879	G	A
HBP1	7	107171801	A	G
HBP1	7	107171713	A	G
HBP1	7	107169204	A	C
HBP1	7	107174709	T	C
HBP1	7	107169439	G	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HBP1	7	107171845	A	G
HBP1	7	107195797	T	C
HBP1	7	107189405	C	T
COG5	7	107202688	G	C
COG5	7	107271157	A	G
COG5	7	107362361	A	G
COG5	7	107311519	G	C
COG5	7	107256792	A	C
COG5	7	107527256	A	G
COG5	7	107318024	T	C
COG5	7	107318060	G	A
COG5	7	107548111	C	A
COG5	7	107362059	T	C
COG5	7	107507297	CT	C
COG5	7	107515675	A	G
COG5	7	107230070	T	C
COG5	7	107318781	A	C
AC002463.1	7	112819597	T	A
AC002463.1	7	112765927	TA	T
AC002463.1	7	112766452	C	T
AC002463.1	7	112787964	T	C
AC002463.1	7	112766430	C	A
AC002463.1	7	112857313	A	G
AC002463.1	7	112857211	C	T
PDIA4	7	149003450	A	C
PDIA4	7	149003757	C	T
PDIA4	7	149003569	G	A
PDIA4	7	149028509	G	A
PDIA4	7	149003724	G	C
PDIA4	7	149019032	C	T
PDIA4	7	149028598	A	G
PDIA4	7	149028608	C	T
GIMAP7	7	150520160	A	G
GIMAP7	7	150520001	G	A
GIMAP7	7	150520221	C	T
GIMAP7	7	150520914	C	T
GIMAP7	7	150520919	ATAGT	A
GIMAP7	7	150521049	G	A
GIMAP7	7	150521013	AAT	A
GIMAP7	7	150520923	T	A
GIMAP7	7	150520247	C	T
CHPF2	7	151233879	C	T
CHPF2	7	151234182	C	G
CHPF2	7	151237889	C	G
CHPF2	7	151234140	C	T
CHPF2	7	151238344	G	C
CHPF2	7	151237076	G	C
RHEB	7	151481092	T	G
RHEB	7	151497020	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RHEB	7	151480685	TA	T
RHEB	7	151493010	T	C
RHEB	7	151493070	T	C
RHEB	7	151493087	C	T
RHEB	7	151508634	GT	G
RHEB	7	151511740	G	A
RHEB	7	151511902	T	C
RHEB	7	151467262	G	A
RHEB	7	151480686	A	T
RHEB	7	151480689	A	T
RHEB	7	151497067	T	C
RHEB	7	151511788	T	C
RHEB	7	151471744	C	T
RHEB	7	151511449	C	A
AC144652.1	7	155296033	T	G
AC144652.1	7	155296355	G	T
AC144652.1	7	155296383	C	G
AC144652.1	7	155296405	A	G
AC144652.1	7	155296408	T	C
AC144652.1	7	155296460	G	A
AC144652.1	7	155296486	A	G
AC144652.1	7	155296543	T	C
AC144652.1	7	155296568	T	C
AC144652.1	7	155296661	T	C
AC144652.1	7	155297446	A	G
AC144652.1	7	155296571	C	CT
AC144652.1	7	155297238	G	C
AC144652.1	7	155296108	A	G
INSIG1	7	155303365	T	C
INSIG1	7	155304389	T	G
INSIG1	7	155305200	G	A
INSIG1	7	155308975	G	A
INSIG1	7	155302116	T	C
INSIG1	7	155305223	C	G
INSIG1	7	155306814	AC	A
INSIG1	7	155307902	A	G
INSIG1	7	155307927	T	G
INSIG1	7	155307940	T	C
INSIG1	7	155308052	T	C
INSIG1	7	155308145	C	A
INSIG1	7	155305506	A	G
INSIG1	7	155303542	G	A
INSIG1	7	155309823	A	G
INSIG1	7	155305157	A	C
INSIG1	7	155297979	A	T
INSIG1	7	155309976	C	G
KBTBD11	8	2005476	CAG	C
KBTBD11	8	2005593	A	T
KBTBD11	8	2006071	G	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KBTBD11	8	2006421	G	A
KBTBD11	8	2005028	T	G
KBTBD11	8	2005057	C	T
KBTBD11	8	2005401	C	A
MSR1	8	16140636	T	C
MSR1	8	16155139	G	C
MSR1	8	16140261	A	G
MSR1	8	16140465	T	G
MSR1	8	16190841	A	C
MSR1	8	16140721	A	G
MSR1	8	16140726	G	A
MSR1	8	16158503	G	T
MSR1	8	16158884	C	T
MSR1	8	16158971	C	A
MSR1	8	16190644	T	C
RAB11FIP1	8	37870499	A	G
RAB11FIP1	8	37870501	T	G
RAB11FIP1	8	37893212	T	C
RAB11FIP1	8	37861652	G	A
RAB11FIP1	8	37861881	G	A
RAB11FIP1	8	37870435	A	G
RAB11FIP1	8	37889852	T	C
RAB11FIP1	8	37893172	T	C
RAB11FIP1	8	37893269	T	C
RAB11FIP1	8	37870513	C	T
RAB11FIP1	8	37892771	A	C
RAB11FIP1	8	37872499	G	A
RAB11FIP1	8	37888890	T	C
SDCBP	8	58556283	A	G
SDCBP	8	58559079	A	T
SDCBP	8	58561071	T	C
SDCBP	8	58561379	A	G
SDCBP	8	58570562	T	C
SDCBP	8	58555905	T	G
SDCBP	8	58556092	A	T
SDCBP	8	58565864	T	G
SDCBP	8	58555738	T	C
SDCBP	8	58556282	A	G
SDCBP	8	58561980	A	G
SDCBP	8	58570747	T	C
SDCBP	8	58580794	C	T
SDCBP	8	58582331	C	A
SDCBP	8	58558628	C	T
SDCBP	8	58560023	A	G
SDCBP	8	58582260	T	G
SDCBP	8	58553547	T	C
SDCBP	8	58556416	G	A
SDCBP	8	58558433	T	C
SDCBP	8	58558773	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SDCBP	8	58558925	G	A
SDCBP	8	58559700	A	T
SDCBP	8	58562405	A	T
SDCBP	8	58581530	G	T
TMEM70	8	73976259	C	T
TMEM70	8	73981645	C	T
TMEM70	8	73982513	A	G
TMEM70	8	73976381	G	C
TMEM70	8	73981586	A	G
TMEM70	8	73981615	C	G
TMEM70	8	73981790	A	G
TMEM70	8	73981184	C	G
RRM2B	8	102204606	C	T
RRM2B	8	102204670	G	A
RRM2B	8	102205458	T	C
RRM2B	8	102205467	A	G
RRM2B	8	102206856	T	A
RRM2B	8	102207135	T	C
RRM2B	8	102238215	C	G
RRM2B	8	102238547	G	C
RRM2B	8	102204540	C	T
RRM2B	8	102204738	C	C
RRM2B	8	102205254	T	C
RRM2B	8	102206645	C	G
AZIN1	8	102826648	T	A
AZIN1	8	102826775	A	G
AZIN1	8	102829481	G	A
AZIN1	8	102836883	A	G
AZIN1	8	102839749	C	T
AZIN1	8	102855772	G	A
AZIN1	8	102856258	T	C
AZIN1	8	102866144	A	G
AZIN1	8	102833753	(various)	A
AZIN1	8	102866604	A	G
AZIN1	8	102867383	A	G
AZIN1	8	102867409	A	G
AZIN1	8	102826936	A	T
AZIN1	8	102838824	T	C
AZIN1	8	102863955	G	A
AZIN1	8	102864087	A	C
AZIN1	8	102864097	C	A
AZIN1	8	102826446	A	G
AZIN1	8	102826449	T	A
AZIN1	8	102837097	T	C
AZIN1	8	102867304	T	A
AZIN1	8	102828311	ATATTT	A
AZIN1	8	102834718	G	A
AZIN1	8	102855686	A	G
AZIN1	8	102868398	T	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AZIN1	8	102856093	G	T
AZIN1	8	102832620	C	T
AZIN1	8	102836991	G	A
AZIN1	8	102837233	A	T
AZIN1	8	102832760	C	T
AZIN1	8	102836936	ACT	A
AZIN1	8	102860293	C	T
AZIN1	8	102833593	G	C
AZIN1	8	102833744	A	C
AZIN1	8	102826644	T	C
DPYS	8	104350614	T	G
DPYS	8	104351224	G	C
DPYS	8	104351673	C	G
DPYS	8	104352366	T	C
DPYS	8	104353006	C	T
DPYS	8	104354868	T	C
DPYS	8	104359524	C	T
DPYS	8	104359945	A	C
DPYS	8	104360096	T	G
DPYS	8	104348867	C	T
DPYS	8	104356457	G	C
DPYS	8	104356180	A	G
DPYS	8	104350428	G	T
DPYS	8	104352028	G	A
DPYS	8	104359960	TACATGAGTTGGTGCAG G (SEQ ID No:66)	T
HACD4	9	20999771	T	C
HACD4	9	21029331	T	C
HACD4	9	21016010	G	A
HACD4	9	21004245	G	A
HACD4	9	21005423	G	A
HACD4	9	21003784	C	T
HACD4	9	21005306	G	C
HACD4	9	21005398	A	C
HACD4	9	21005476	T	C
HACD4	9	21006935	A	G
HACD4	9	21015926	C	T
HACD4	9	21031480	C	T
HACD4	9	21004111	T	C
HACD4	9	21006022	C	T
HACD4	9	21004478	C	T
HACD4	9	21004769	C	G
HACD4	9	21011343	C	T
HACD4	9	21031472	C	A
TLN1	9	35705762	G	A
TLN1	9	35708428	T	C
TLN1	9	35712006	G	A
TLN1	9	35726400	C	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TLN1	9	35697588	G	A
TLN1	9	35725988	C	T
TLN1	9	35697084	C	A
TLN1	9	35697473	C	T
TLN1	9	35732085	T	C
TLN1	9	35704153	C	T
TLN1	9	35704402	C	T
TLN1	9	35704901	GA	G
TLN1	9	35704182	A	C
CTSL	9	87731118	G	C
CTSL	9	87727760	C	T
CTSL	9	87730693	A	C
CTSL	9	87726596	G	T
CTSL	9	87727041	AAAATAAAT	A
CTSL	9	87728590	G	A
CTSL	9	87728865	A	C
CTSL	9	87726159	T	G
CTSL	9	87727841	G	A
CTSL	9	87727914	C	T
CTSL	9	87730042	A	G
CTSL	9	87730684	G	C
NOL8	9	92305764	C	T
NOL8	9	92297522	A	G
NOL8	9	92320522	A	G
NOL8	9	92297508	T	A
SLC31A1	9	113227443	G	A
SLC31A1	9	113262679	A	G
SLC31A1	9	113262744	A	C
SLC31A1	9	113263148	A	C
SLC31A1	9	113264080	C	A
SLC31A1	9	113263975	G	C
SLC31A1	9	113263702	A	C
SLC31A1	9	113263754	A	G
SLC31A1	9	113263760	C	T
SLC31A1	9	113263761	G	A
SLC31A1	9	113244094	T	G
SLC31A1	9	113263567	C	T
AL160272.2	9	117716658	G	C
AL160272.2	9	117717059	T	C
AL160272.2	9	117717456	T	C
AL160272.2	9	117715853	C	C
AL160272.2	9	117708220	A	C
AL160272.2	9	117708606	A	G
AL160272.2	9	117717496	TACTG	T
AL160272.2	9	117735680	G	T
AL160272.2	9	117735972	A	G
AL160272.2	9	117720254	A	G
AL160272.2	9	117735886	G	A
AL160272.2	9	117771227	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AL160272.2	9	117717438	A	G
GTF3C4	9	132694354	A	T
GTF3C4	9	132690608	T	C
GTF3C4	9	132693245	C	A
GTF3C4	9	132689104	C	T
GTF3C4	9	132689347	T	C
GTF3C4	9	132689559	A	G
GTF3C4	9	132690270	T	C
GTF3C4	9	132690283	C	A
GTF3C4	9	132693650	TAA	T
GTF3C4	9	132690440	CAAA	C
GTF3C4	9	132689909	G	A
GTF3C4	9	132690326	C	T
GTF3C4	9	132694156	C	T
GTF3C4	9	132694532	A	G
GTF3C4	9	132682354	A	G
GTF3C4	9	132689731	C	T
GTF3C4	9	132693691	A	C
GTF3C4	9	132679179	G	A
GTF3C4	9	132690787	A	G
GTF3C4	9	132691677	G	A
GTF3C4	9	132692463	C	G
GTF3C4	9	132692608	GT	G
GTF3C4	9	132694608	G	C
MT-ND4	MT	11410	T	C
MT-ND4	MT	11719	G	A
MT-ND4	MT	10915	T	C
MT-ND4	MT	11251	A	G
MT-ND4	MT	11812	A	G
MT-ND4	MT	11377	G	A
MT-ND4	MT	11914	G	A
MT-ND4	MT	10876	A	G
MT-ND4	MT	11467	A	G
MT-ND4	MT	12103	C	A
MT-ND4	MT	10873	T	C
MT-ND4	MT	10903	C	T
MT-ND4	MT	11944	T	C
MT-ND4	MT	12127	G	A
MT-ND4	MT	12007	G	A
MIB2	1	1625951	G	A
MIB2	1	1616048	C	T
MIB2	1	1616547	T	C
MIB2	1	1625805	G	A
MIB2	1	1623412	T	C
MIB2	1	1629332	G	T
NBPF1	1	16562918	T	C
NBPF1	1	16562643	T	C
NBPF1	1	16562663	A	C
NBPF1	1	16575173	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NBPF1	1	16565698	A	T
NBPF1	1	16562919	T	C
CROCCP2	1	16618570	A	C
CROCCP2	1	16618967	A	G
CROCCP2	1	16619939	C	T
CROCCP2	1	16619943	G	A
CROCCP2	1	16635040	C	G
CROCCP2	1	16626498	C	G
CROCCP2	1	16629558	G	C
CROCCP2	1	16625986	A	G
CROCCP2	1	16630951	T	G
CROCCP2	1	16631569	A	G
CROCCP2	1	16632338	T	A
CROCCP2	1	16633117	A	G
CROCCP2	1	16626401	G	A
CROCCP2	1	16626457	G	A
CROCCP2	1	16618957	C	T
CROCCP2	1	16619075	A	G
CROCCP2	1	16619912	T	G
BTBD19	1	44810948	A	G
BTBD19	1	44811472	C	T
BTBD19	1	44814044	C	C
BTBD19	1	44814141	T	C
BTBD19	1	44814388	C	T
BTBD19	1	44815036	C	T
BTBD19	1	44811349	G	T
BTBD19	1	44812622	G	A
BTBD19	1	44810755	G	A
BTBD19	1	44810758	T	C
BTBD19	1	44812422	T	C
BTBD19	1	44812817	G	A
BTBD19	1	44812818	T	G
BTBD19	1	44814077	ACTAGT	A
BTBD19	1	44814255	T	C
BTBD19	1	44814328	C	G
BTBD19	1	44815573	CTTTA	C
PSAP	10	71819569	C	T
PSAP	10	71822277	G	A
PSAP	10	71824191	TG	T
PSAP	10	71849302	G	C
PSAP	10	71849805	A	G
PSAP	10	71850298	G	A
PSAP	10	71816550	C	T
PSAP	10	71818615	A	T
PSAP	10	71819125	T	C
PSAP	10	71851225	G	A
PSAP	10	71850368	T	G
PSAP	10	71850580	C	T
PSAP	10	71839368	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PSAP	10	71823763	G	C
PSAP	10	71822995	T	A
PSAP	10	71824716	A	C
PSAP	10	71825268	C	T
PSAP	10	71825678	G	T
PSAP	10	71826828	A	G
PSAP	10	71827036	C	T
PSAP	10	71819648	C	T
PSAP	10	71823024	G	T
PSAP	10	71824488	G	C
PSAP	10	71826180	G	C
PSAP	10	71817869	A	T
PSAP	10	71818915	G	A
PSAP	10	71823011	GA	G
PSAP	10	71824669	T	C
PSAP	10	71831906	G	A
PSAP	10	71829541	A	G
PSAP	10	71817510	G	A
ARHGEF11	1	157035362	C	A
ARHGEF11	1	156937289	T	C
ARHGEF11	1	156937323	T	C
ARHGEF11	1	156935045	C	T
ARHGEF11	1	156995310	G	T
ARHGEF11	1	156935026	G	A
ARHGEF11	1	156935688	C	T
ARHGEF11	1	156935792	A	G
ARHGEF11	1	156939903	G	A
ARHGEF11	1	157007963	CA	C
CCDC186	10	114137246	TTG	T
CCDC186	10	114121777	A	G
CCDC186	10	114123491	C	T
CCDC186	10	114123761	C	T
CCDC186	10	114151169	G	T
CCDC186	10	114162733	C	T
CCDC186	10	114163015	G	A
CCDC186	10	114121272	T	A
CCDC186	10	114122942	A	G
CCDC186	10	114131175	G	T
CCDC186	10	114132178	C	T
CCDC186	10	114127471	T	TT
MPC2	1	167917264	A	T
MPC2	1	167924521	G	A
MPC2	1	167918103	G	A
MPC2	1	167918178	C	T
MPC2	1	167918198	A	C
RPS13	11	17074603	T	A
RPS13	11	17074512	A	G
RPS13	11	17076148	G	T
RPS13	11	17076317	G	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
RPS13	11	17076319	G	A
RPS13	11	17074420	T	A
RPS13	11	17075091	A	C
RPS13	11	17075095	A	C
RPS13	11	17074664	A	G
RPS13	11	17075092	C	A
RPS13	11	17075096	C	A
MALAT1	11	65506097	TA	T
MALAT1	11	65502258	AGT	A
MALAT1	11	65504361	C	T
MALAT1	11	65499911	CAAGCT	C
MALAT1	11	65501989	T	C
MALAT1	11	65502619	CT	C
MALAT1	11	65499637	T	C
MALAT1	11	65499935	G	A
MALAT1	11	65500042	CTGG	C
MALAT1	11	65500727	G	A
MALAT1	11	65503505	G	A
MALAT1	11	65501059	A	G
HERC4	10	67963972	G	T
HERC4	10	67964676	A	G
HERC4	10	68006161	T	C
HERC4	10	68006233	T	C
HERC4	10	68070493	C	T
HERC4	10	68057883	T	C
HERC4	10	68051522	G	T
HERC4	10	68051919	T	G
HERC4	10	68051962	C	T
HERC4	10	68070509	G	A
HERC4	10	67963996	C	CAGAG
HERC4	10	68005773	G	A
HERC4	10	68007125	A	G
HERC4	10	68014084	G	A
HERC4	10	68051655	G	A
HERC4	10	68051785	C	T
HERC4	10	68052137	C	T
HERC4	10	68054189	A	G
HERC4	10	68074457	C	T
SETD1B	12	121805999	C	T
SETD1B	12	121807183	A	G
SETD1B	12	121822822	C	A
SETD1B	12	121823550	G	A
SETD1B	12	121824657	A	C
SETD1B	12	121831276	G	A
SETD1B	12	121830790	C	G
SETD1B	12	121831451	CT	C
SETD1B	12	121824090	G	A
SETD1B	12	121810676	C	G
SETD1B	12	121807438	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SETD1B	12	121829312	T	C
SETD1B	12	121825042	G	A
SETD1B	12	121822641	C	T
SETD1B	12	121822899	C	T
SETD1B	12	121824979	CA	C
ARHGEF40	14	21082899	G	A
ARHGEF40	14	21082910	T	C
ARHGEF40	14	21082340	G	T
ARHGEF40	14	21084845	C	T
ARHGEF40	14	21084898	T	C
ARHGEF40	14	21086909	A	G
ARHGEF40	14	21074607	A	G
ARHGEF40	14	21081734	G	C
ARHGEF40	14	21086908	A	AG
ARHGEF40	14	21086904	A	G
MIDEAS	14	73716107	G	A
MIDEAS	14	73716576	A	G
MIDEAS	14	73717489	A	G
MIDEAS	14	73740152	C	G
MIDEAS	14	73717836	A	C
MIDEAS	14	73716875	C	T
MIDEAS	14	73737086	C	A
MIDEAS	14	73715614	A	G
MIDEAS	14	73716718	CCAAGTA	C
MIDEAS	14	73737933	T	C
MIDEAS	14	73737983	G	C
MIDEAS	14	73739778	T	C
MIDEAS	14	73729983	T	C
GOLGA8A	15	34379237	G	T
GOLGA8A	15	34380605	C	T
GOLGA8A	15	34381521	C	T
GOLGA8A	15	34381772	C	T
GOLGA8A	15	34381805	C	T
GOLGA8A	15	34381847	G	A
GOLGA8A	15	34381982	T	C
GOLGA8A	15	34382065	T	G
GOLGA8A	15	34382437	G	A
GOLGA8A	15	34382456	A	G
GOLGA8A	15	34382849	C	T
GOLGA8A	15	34400741	T	C
GOLGA8A	15	34435441	C	C
GOLGA8A	15	34380756	C	G
GOLGA8A	15	34381054	G	A
GOLGA8A	15	34381175	T	G
GOLGA8A	15	34381265	T	A
GOLGA8A	15	34381387	G	C
GOLGA8A	15	34381991	C	T
GOLGA8A	15	34382220	G	A
GOLGA8A	15	34385316	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
GOLGA8A	15	34386710	C	G
GOLGA8A	15	34387836	C	T
GOLGA8A	15	34389759	A	C
GOLGA8A	15	34407712	T	C
GOLGA8A	15	34420408	C	G
GOLGA8A	15	34420442	G	A
GOLGA8A	15	34437409	G	A
GOLGA8B	15	34525564	C	T
GOLGA8B	15	34526061	C	T
GOLGA8B	15	34526069	G	A
GOLGA8B	15	34526707	C	T
GOLGA8B	15	34526781	C	T
GOLGA8B	15	34526826	C	T
GOLGA8B	15	34526997	C	T
GOLGA8B	15	34528286	T	G
GOLGA8B	15	34529070	C	T
GOLGA8B	15	34534057	C	T
GOLGA8B	15	34528068	G	A
GOLGA8B	15	34528203	T	C
GOLGA8B	15	34525788	T	A
GOLGA8B	15	34525923	A	C
GOLGA8B	15	34525927	A	G
GOLGA8B	15	34525931	C	G
GOLGA8B	15	34527608	G	C
GOLGA8B	15	34528441	G	A
GOLGA8B	15	34528658	G	A
GOLGA8B	15	34528677	A	G
GOLGA8B	15	34532931	C	G
GOLGA8B	15	34535980	A	G
GOLGA8B	15	34537275	C	T
GOLGA8B	15	34526212	T	C
GOLGA8B	15	34565511	C	G
CNOT2	12	70283686	A	G
CNOT2	12	70254237	CA	C
CNOT2	12	70254834	A	G
CNOT2	12	70254861	A	G
CNOT2	12	70308002	C	T
CNOT2	12	70282250	G	A
CNOT2	12	70308032	A	G
CNOT2	12	70327211	AAAAGT	A
CNOT2	12	70254896	C	T
CNOT2	12	70254980	CA	C
CNOT2	12	70283420	A	AGG
CNOT2	12	70327245	A	G
CNOT2	12	70327396	A	G
CNOT2	12	70254467	A	G
AC066613.2	15	51456367	A	G
AC066613.2	15	51448859	G	A
AC066613.2	15	51460850	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC066613.2	15	51487519	A	G
AC066613.2	15	51463269	T	C
AC066613.2	15	51467709	T	C
AC066613.2	15	51467949	A	G
AC066613.2	15	51494162	T	A
AC066613.2	15	51462254	T	C
AC066613.2	15	51462492	C	T
AC066613.2	15	51462836	C	A
SSH1	12	108785197	T	G
SSH1	12	108833989	A	G
SSH1	12	108834138	T	C
SSH1	12	108807384	G	A
SSH1	12	108807418	(various)	A
SSH1	12	108803488	AG	A
SSH1	12	108785374	G	A
SSH1	12	108788273	T	C
SSH1	12	108783980	T	C
SSH1	12	108785032	C	T
SSH1	12	108785506	C	T
SSH1	12	108792247	G	T
SSH1	12	108807338	A	G
HCAR3	12	122716146	A	G
HCAR3	12	122716221	T	G
HCAR3	12	122716390	T	G
HCAR3	12	122715980	T	C
HCAR3	12	122716315	A	G
HCAR3	12	122716492	G	A
HCAR3	12	122716744	A	G
VAC14	16	70727372	C	T
VAC14	16	70692892	C	A
VAC14	16	70687524	TAC	T
VAC14	16	70691238	A	C
VAC14	16	70716067	A	G
VAC14	16	70717721	T	C
VAC14	16	70771312	A	G
VAC14	16	70713709	G	T
VAC14	16	70713710	T	G
VAC14	16	70776857	T	C
VAC14	16	70779862	T	G
VAC14	16	70725427	G	A
VAC14	16	70769036	C	A
VAC14	16	70773912	C	T
VAC14	16	70725820	T	C
VAC14	16	70732621	C	T
VAC14	16	70762911	G	A
VAC14	16	70774813	GGC	G
VAC14	16	70776726	C	G
VAC14	16	70776899	C	T
VAC14	16	70780884	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
VAC14	16	70784830	G	A
VAC14	16	70800853	G	A
VAC14	16	70716094	A	C
CDC16	13	114236830	G	A
CDC16	13	114239439	C	T
CDC16	13	114239460	T	C
CDC16	13	114265239	T	C
CDC16	13	114242135	C	T
TAF1C	16	84183456	C	T
TAF1C	16	84179247	G	C
TAF1C	16	84178965	C	A
TAF1C	16	84179508	C	T
TAF1C	16	84179828	A	T
TAF1C	16	84180359	G	A
TAF1C	16	84181527	C	T
TAF1C	16	84182086	C	T
TAF1C	16	84179173	G	A
TAF1C	16	84184277	T	G
TAF1C	16	84181784	T	C
TAF1C	16	84178923	G	T
TAF1C	16	84179322	G	A
TAF1C	16	84184194	C	T
GALNS	16	88835760	G	A
GALNS	16	88835265	G	A
GALNS	16	88813787	T	C
GALNS	16	88813828	T	C
GALNS	16	88835775	G	A
GALNS	16	88813915	C	G
GALNS	16	88814143	T	C
GALNS	16	88814072	A	G
GALNS	16	88855162	T	C
GALNS	16	88855226	C	G
GALNS	16	88818058	C	T
GALNS	16	88818046	G	A
FAM157C	16	90168683	A	G
FAM157C	16	90168731	A	G
FAM157C	16	90168946	A	G
FAM157C	16	90169409	A	G
FAM157C	16	90169498	A	G
FAM157C	16	90170160	A	G
FAM157C	16	90170173	A	C
FAM157C	16	90170236	A	G
FAM157C	16	90171027	A	G
FAM157C	16	90171124	A	G
FAM157C	16	90111394	G	C
FAM157C	16	90171719	G	A
FAM157C	16	90169411	T	C
FAM157C	16	90167396	T	C
FAM157C	16	90167560	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
FAM157C	16	90168571	A	G
FAM157C	16	90168661	C	A
FAM157C	16	90168960	C	T
FAM157C	16	90169329	T	G
FAM157C	16	90169333	A	G
FAM157C	16	90169383	C	T
FAM157C	16	90169521	C	T
FAM157C	16	90169736	C	G
FAM157C	16	90170081	A	G
FAM157C	16	90170101	T	C
FAM157C	16	90170659	A	G
KIF1C	17	5023587	A	G
KIF1C	17	5027692	G	A
KIF1C	17	5026810	A	G
KIF1C	17	5023910	G	A
KIF1C	17	5023565	C	A
KIF1C	17	5022380	G	A
KIF1C	17	5026564	A	G
KIF1C	17	5026568	A	G
KIF1C	17	5001269	T	C
KIF1C	17	5026345	C	A
ZNF286B	17	18677480	C	T
ZNF286B	17	18666247	G	A
ZNF286B	17	18667820	C	T
ZNF286B	17	18668053	A	G
ZNF286B	17	18670696	A	G
ZNF286B	17	18671559	G	T
ZNF286B	17	18671685	A	T
ZNF286B	17	18671814	G	A
ZNF286B	17	18677525	G	A
ZNF286B	17	18666305	C	T
ZNF286B	17	18666400	G	T
ZNF286B	17	18668252	G	A
ZNF286B	17	18672768	G	A
ZNF286B	17	18677586	A	G
COASY	17	42564502	A	G
COASY	17	42564546	G	C
COASY	17	42565654	C	G
COASY	17	42562786	C	A
DDX5	17	64501846	C	T
DDX5	17	64498712	C	A
DDX5	17	64498891	C	T
DDX5	17	64499534	AC	A
DDX5	17	64506317	A	G
DDX5	17	64501194	G	C
DDX5	17	64500552	A	C
DDX5	17	64498775	A	G
DDX5	17	64499128	A	C
DDX5	17	64499491	TTAAA	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
DDX5	17	64499535	C	A
DDX5	17	64500937	G	A
DDX5	17	64505810	C	C
DDX5	17	64507013	T	C
RSL24D1	15	55181727	CCATA	C
RSL24D1	15	55196867	G	A
RSL24D1	15	55196906	A	G
RSL24D1	15	55181995	C	G
ENGASE	17	79077484	G	A
ENGASE	17	79079585	T	C
ENGASE	17	79079588	C	T
ENGASE	17	79079591	A	G
ENGASE	17	79080358	G	T
ENGASE	17	79082789	C	A
ENGASE	17	79085706	G	A
ENGASE	17	79087537	T	C
ENGASE	17	79088572	G	T
ENGASE	17	79081987	G	A
ENGASE	17	79082027	A	G
ENGASE	17	79083494	A	G
ENGASE	17	79085265	C	A
ENGASE	17	79086676	A	G
ENGASE	17	79083772	A	G
ENGASE	17	79088192	C	T
ENGASE	17	79079549	C	T
ENGASE	17	79087598	C	T
ENGASE	17	79088464	C	T
ENGASE	17	79087218	C	T
ENGASE	17	79088255	CCTCT	C
ENGASE	17	79088337	T	A
AP001496.2	18	5238209	C	T
AP001496.2	18	5238443	G	C
AP001496.2	18	5238500	C	T
AP001496.2	18	5238413	C	A
AP001496.2	18	5238492	T	C
AP001496.2	18	5237806	C	G
AP001496.2	18	5237824	G	A
PWWP3A	19	1370676	C	G
PWWP3A	19	1376724	G	A
PWWP3A	19	1377159	C	T
PWWP3A	19	1377174	A	G
PWWP3A	19	1357083	T	C
PWWP3A	19	1359282	T	C
PWWP3A	19	1360576	G	A
PWWP3A	19	1365106	T	C
PWWP3A	19	1358727	C	T
PWWP3A	19	1372772	CA	C
PWWP3A	19	1365047	G	A
REX01	19	1821638	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
REX01	19	1827827	G	A
REX01	19	1848244	A	G
REX01	19	1819126	T	C
REX01	19	1825928	TCTC	T
REX01	19	1847903	T	C
REX01	19	1824672	A	G
REX01	19	1815914	T	G
REX01	19	1815597	C	T
ARRDC2	19	18002620	T	C
ARRDC2	19	18008126	C	G
ARRDC2	19	18001211	T	C
ARRDC2	19	18001552	C	T
ARRDC2	19	18012929	T	C
ARRDC2	19	18013946	A	G
ARRDC2	19	18008060	A	T
ARRDC2	19	18003701	A	G
ARRDC2	19	18005631	G	C
ARRDC2	19	18006190	T	C
ARRDC2	19	18006433	G	C
ARRDC2	19	18006484	C	T
ARRDC2	19	18006517	G	A
ARRDC2	19	18006584	T	G
ARRDC2	19	18006679	T	A
ARRDC2	19	18006837	C	T
ARRDC2	19	18007413	T	G
ARRDC2	19	18010345	G	A
ARRDC2	19	18010657	C	T
ARRDC2	19	18012808	A	G
ARRDC2	19	18013156	C	T
ARRDC2	19	18013637	C	T
ARRDC2	19	18013246	C	G
ARRDC2	19	18013375	C	T
COPS3	17	17264850	G	A
COPS3	17	17276167	G	A
COPS3	17	17265319	T	C
COPS3	17	17263422	T	C
COPS3	17	17263471	T	C
COPS3	17	17263472	T	C
STAT5A	17	42310722	G	A
STAT5A	17	42303672	C	T
STAT5A	17	42294095	A	G
STAT5A	17	42303828	G	T
STAT5A	17	42307719	C	T
STAT5A	17	42309656	A	G
STAT5A	17	42310778	(various)	T
STAT5A	17	42310976	G	T
STAT5A	17	42303469	A	G
STAT5A	17	42311450	C	A
NBR1	17	43201994	A	G

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NBR1	17	43209941	A	G
NBR1	17	43210253	C	G
NBR1	17	43210702	C	T
NBR1	17	43200626	C	T
NBR1	17	43195799	T	C
NBR1	17	43195804	G	A
NBR1	17	43195651	CA	C
LLGL2	17	75556104	G	A
LLGL2	17	75571974	C	T
LLGL2	17	75574637	C	G
LLGL2	17	75574949	A	G
LLGL2	17	75571765	C	T
LLGL2	17	75567661	A	G
LLGL2	17	75570480	G	A
LLGL2	17	75567332	T	C
LLGL2	17	75567943	G	A
LLGL2	17	75569090	T	C
LLGL2	17	75563412	G	T
HGS	17	81696901	T	C
HGS	17	81701867	C	T
HGS	17	81703092	G	A
HGS	17	81695037	A	G
HGS	17	81696850	T	C
HGS	17	81701105	G	T
HGS	17	81701522	C	T
HGS	17	81701634	C	T
HGS	17	81700245	C	T
HGS	17	81699631	A	G
HGS	17	81701196	A	G
HGS	17	81684386	C	T
HGS	17	81695806	G	C
HGS	17	81700274	C	T
HGS	17	81700198	T	C
SP140L	2	230403210	G	A
SP140L	2	230403242	A	G
SP140L	2	230403370	T	C
SP140L	2	230403445	G	A
SP140L	2	230403448	C	T
SP140L	2	230403486	G	C
SP140L	2	230403496	A	G
SP140L	2	230403609	T	C
SP140L	2	230403627	C	T
SP140L	2	230392097	A	G
SP140L	2	230403595	C	G
SP140L	2	230357940	G	T
SP140L	2	230357960	T	C
SP140L	2	230383546	C	T
SP140L	2	230392099	A	G
SP140L	2	230393435	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SP140L	2	230327288	G	A
ITM2C	2	230873453	G	A
ITM2C	2	230873548	C	T
ITM2C	2	230873554	G	A
MTG2	20	62202014	A	G
MTG2	20	62202099	G	C
MTG2	20	62202176	C	T
MTG2	20	62200876	C	T
MTG2	20	62202873	C	T
MTG2	20	62203152	G	T
MTG2	20	62203169	G	T
MTG2	20	62203245	G	A
MTG2	20	62195875	A	G
MTG2	20	62201388	A	G
MTG2	20	62193441	C	T
MTG2	20	62201126	G	A
MTG2	20	62200866	C	T
PPAN-P2RY11	19	10107848	C	G
PPAN-P2RY11	19	10111519	A	G
PPAN-P2RY11	19	10112159	T	A
PPAN-P2RY11	19	10112751	A	G
PPAN-P2RY11	19	10113850	C	T
PPAN-P2RY11	19	10112620	G	A
PPAN-P2RY11	19	10111200	C	T
PPAN-P2RY11	19	10111882	G	T
PPAN-P2RY11	19	10111529	G	A
PPAN-P2RY11	19	10112186	G	A
PPAN-P2RY11	19	10113455	T	G
PPAN-P2RY11	19	10113872	G	A
PPAN-P2RY11	19	10111132	G	A
PPAN-P2RY11	19	10110475	C	G
PPAN-P2RY11	19	10112619	C	T
PCNT	21	46366609	A	G
PCNT	21	46388764	C	T
PCNT	21	46430570	G	C
PCNT	21	46431882	G	A
PCNT	21	46435963	A	G
PCNT	21	46443844	A	C
PCNT	21	46432135	G	A
PCNT	21	46442711	A	G
PCNT	21	46430193	C	A
PCNT	21	46431839	A	G
PCNT	21	46363881	T	C
PCNT	21	46428545	G	A
PCNT	21	46436997	G	A
EWSR1	22	29289722	C	T
EWSR1	22	29298322	G	A
EWSR1	22	29298493	T	C
EWSR1	22	29279086	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
EWSR1	22	29294356	T	C
EWSR1	22	29298332	T	C
EWSR1	22	29289763	A	G
EWSR1	22	29298562	C	T
EWSR1	22	29298927	A	G
EWSR1	22	29299431	C	T
EWSR1	22	29297925	G	A
TUG1	22	30970689	G	T
TUG1	22	30973338	G	A
TUG1	22	30973803	C	G
TUG1	22	30976063	TA	T
TUG1	22	30977154	A	G
TUG1	22	30969908	A	C
TUG1	22	30972110	A	T
TUG1	22	30972934	T	TT
TUG1	22	30976864	G	A
QPCTL	19	45703167	T	C
QPCTL	19	45696845	G	A
QPCTL	19	45703004	G	A
QPCTL	19	45697044	T	C
QPCTL	19	45701114	GCA	G
QPCTL	19	45703528	A	G
QPCTL	19	45703536	A	G
QPCTL	19	45703697	A	G
QPCTL	19	45703767	A	G
QPCTL	19	45698554	C	T
QPCTL	19	45701620	T	C
QPCTL	19	45701680	C	T
QPCTL	19	45703603	A	G
SLC1A5	19	46787917	G	C
SLC1A5	19	46788235	G	A
SLC1A5	19	46788242	GGCCCTA	G
SLC1A5	19	46788304	A	G
SLC1A5	19	46788313	G	A
SLC1A5	19	46778905	G	A
ZNF888	19	52904816	A	G
ZNF888	19	52905122	G	A
ZNF888	19	52904582	G	C
ZNF888	19	52905506	G	A
ZNF888	19	52905530	G	C
ZNF888	19	52905557	C	T
ZNF888	19	52905580	G	A
ZNF888	19	52904912	G	C
ZNF888	19	52904954	T	A
ZNF888	19	52904970	T	C
ZNF888	19	52904976	A	G
ZNF888	19	52905043	T	C
SH3BP5-AS1	3	15258375	G	T
SH3BP5-AS1	3	15264388	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SH3BP5-AS1	3	15259856	G	A
SH3BP5-AS1	3	15255097	G	A
SH3BP5-AS1	3	15255962	A	C
SH3BP5-AS1	3	15257204	TG	T
SH3BP5-AS1	3	15257720	G	A
SH3BP5-AS1	3	15258223	T	G
SH3BP5-AS1	3	15259194	G	A
SH3BP5-AS1	3	15259292	C	T
SH3BP5-AS1	3	15260064	C	T
SH3BP5-AS1	3	15260321	T	G
SH3BP5-AS1	3	15264363	C	T
MOB1A	2	74154536	AAG	A
MOB1A	2	74152698	C	T
MOB1A	2	74156784	G	A
MOB1A	2	74153872	T	C
MOB1A	2	74173405	T	C
MOB1A	2	74173599	G	C
MOB1A	2	74173473	T	C
MOB1A	2	74153862	A	G
MOB1A	2	74156503	G	A
MOB1A	2	74178740	T	G
MOB1A	2	74178825	T	C
MOB1A	2	74156785	T	C
MOB1A	2	74177810	G	A
MOB1A	2	74155953	G	A
UVSSA	4	1346565	C	T
UVSSA	4	1347503	A	G
UVSSA	4	1380907	C	A
UVSSA	4	1380986	C	T
UVSSA	4	1383827	A	G
UVSSA	4	1386245	A	G
UVSSA	4	1388010	A	G
UVSSA	4	1394327	C	G
UVSSA	4	1395360	T	C
UVSSA	4	1395368	T	C
UVSSA	4	1387060	A	G
UVSSA	4	1359166	G	A
UVSSA	4	1394795	A	G
UVSSA	4	1356149	G	T
UVSSA	4	1395313	A	G
ITPA	20	3213198	A	C
ITPA	20	3213332	G	A
ITPA	20	3223438	G	A
ITPA	20	3213196	C	A
ITPA	20	3223585	G	A
HM13	20	31541490	(various)	T
HM13	20	31540750	T	G
HM13	20	31541243	A	G
HM13	20	31541296	C	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
HM13	20	31554218	G	A
HM13	20	31563933	G	A
HM13	20	31569223	A	C
HM13	20	31539743	C	T
HM13	20	31554729	C	A
HM13	20	31539589	A	C
HM13	20	31563956	A	G
HM13	20	31564745	G	A
HM13	20	31522719	G	C
HM13	20	31540654	G	A
HM13	20	31540782	G	A
HM13	20	31553530	G	A
HM13	20	31564478	G	A
HM13	20	31564851	CA	C
HM13	20	31571501	A	G
HM13	20	31522272	C	G
HM13	20	31522624	CTG	C
HM13	20	31525900	T	C
HM13	20	31525944	T	C
HM13	20	31534513	G	T
HM13	20	31535464	A	G
HM13	20	31542926	T	C
HM13	20	31542927	G	A
HM13	20	31542972	A	C
HM13	20	31548187	A	G
HM13	20	31552749	G	A
HM13	20	31553188	CAG	C
HM13	20	31554587	C	T
HM13	20	31554677	G	A
HM13	20	31559467	T	G
HM13	20	31561932	G	A
HM13	20	31562274	T	C
HM13	20	31562476	G	A
HM13	20	31563887	A	G
HM13	20	31566131	A	G
HM13	20	31567517	C	G
HM13	20	31568687	G	A
HM13	20	31571587	AAC	A
HM13	20	31539924	T	G
HM13	20	31525759	CA	C
HM13	20	31564016	A	C
HM13	20	31566047	C	G
TTPAL	20	44492561	ACT	A
TTPAL	20	44494387	G	A
TTPAL	20	44491297	C	T
TTPAL	20	44492809	G	C
TTPAL	20	44492597	C	A
TTPAL	20	44493216	G	C
TTPAL	20	44493359	T	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TTPAL	20	44493475	T	C
TTPAL	20	44475947	G	A
TTPAL	20	44490596	A	C
TTPAL	20	44493073	C	A
TTPAL	20	44494219	GGCA	G
TTPAL	20	44494392	ACT	A
C4orf46	4	158667632	T	C
C4orf46	4	158667579	A	C
C4orf46	4	158667824	A	C
C4orf46	4	158666779	C	T
C4orf46	4	158666905	GT	G
C4orf46	4	158667130	T	C
C4orf46	4	158667496	G	T
C4orf46	4	158669169	C	A
EPB41L4A	5	112164035	A	C
EPB41L4A	5	112161103	TG	T
EPB41L4A	5	112161206	GC	G
EPB41L4A	5	112163344	C	T
EPB41L4A	5	112161428	G	T
EPB41L4A	5	112163573	A	T
EPB41L4A	5	112164730	G	T
EPB41L4A	5	112167009	T	C
RNF14	5	141988242	G	C
RNF14	5	141988333	G	A
RNF14	5	141988526	C	T
RNF14	5	141981667	T	C
RNF14	5	141988771	A	G
RNF14	5	141978584	T	C
TRAPPC10	21	44083240	G	A
TRAPPC10	21	44083913	C	T
TRAPPC10	21	44086938	T	C
TRAPPC10	21	44059831	C	T
TRAPPC10	21	44078370	T	C
TRAPPC10	21	44078440	TA	T
TRAPPC10	21	44104901	G	A
TRAPPC10	21	44055608	G	C
TRAPPC10	21	44078690	G	A
TRAPPC10	21	44082963	T	G
TRAPPC10	21	44059174	C	T
TRAPPC10	21	44099735	G	T
TRAPPC10	21	44078255	C	A
TRAPPC10	21	44087903	G	A
TRAPPC10	21	44086862	C	T
TRAPPC10	21	44082039	T	C
KCNIP1	5	170376364	C	T
KCNIP1	5	170378625	T	G
KCNIP1	5	170378626	G	T
KCNIP1	5	170381205	A	C
KCNIP1	5	170381496	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
KCNIP1	5	170381966	C	T
KCNIP1	5	170389296	A	G
KCNIP1	5	170389561	A	C
KCNIP1	5	170378997	T	C
KCNIP1	5	170381640	G	A
KCNIP1	5	170381985	A	C
KCNIP1	5	170382398	A	G
KCNIP1	5	170382446	G	T
KCNIP1	5	170383792	C	T
KCNIP1	5	170389267	C	G
KCNIP1	5	170467957	G	A
KCNIP1	5	170378407	T	C
KCNIP1	5	170382114	G	C
KCNIP1	5	170382618	G	A
KCNIP1	5	170382617	C	T
HNRNPH1	5	179615399	C	T
HNRNPH1	5	179616646	T	G
HNRNPH1	5	179616983	A	AAA
HNRNPH1	5	179617291	G	A
HNRNPH1	5	179618388	G	A
HNRNPH1	5	179620198	C	T
HNRNPH1	5	179620208	C	T
HNRNPH1	5	179621584	T	C
HNRNPH1	5	179623187	A	C
HNRNPH1	5	179621448	T	G
HNRNPH1	5	179614190	A	G
HNRNPH1	5	179620554	CTGA	C
HNRNPH1	5	179620573	G	A
HNRNPH1	5	179622137	C	A
HNRNPH1	5	179622328	G	A
HNRNPH1	5	179616040	C	G
HNRNPH1	5	179616074	T	C
HNRNPH1	5	179622671	A	C
HNRNPH1	5	179615079	C	T
HNRNPH1	5	179616457	T	C
HNRNPH1	5	179616464	G	A
TBC1D7	6	13323663	A	G
TBC1D7	6	13328526	C	T
TBC1D7	6	13314799	A	G
TBC1D7	6	13314951	T	G
TBC1D7	6	13327885	C	T
TBC1D7	6	13298666	A	G
TBC1D7	6	13298760	G	A
TBC1D7	6	13298878	C	T
TBC1D7	6	13314980	T	C
TBC1D7	6	13324197	G	A
TBC1D7	6	13328419	G	C
TBC1D7	6	13328485	C	G
TBC1D7	6	13315666	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TBC1D7	6	13315066	A	G
TBC1D7	6	13315146	A	G
TBC1D7	6	13299086	C	T
TBC1D7	6	13301472	C	G
TBC1D7	6	13316852	C	A
TBC1D7	6	13317798	C	A
TBC1D7	6	13299230	C	G
TBC1D7	6	13300811	G	A
TBC1D7	6	13300819	C	G
TBC1D7	6	13312083	TACTA	T
TBC1D7	6	13312087	A	T
TBC1D7	6	13314642	A	G
TBC1D7	6	13315229	G	A
TBC1D7	6	13316573	A	G
AL662844.4	6	31196923	G	A
AL662844.4	6	31197410	AGG	A
AL662844.4	6	31197500	A	G
AL662844.4	6	31195861	G	C
AL662844.4	6	31197373	G	C
AL662844.4	6	31197789	T	C
AL662844.4	6	31195384	A	T
AL662844.4	6	31195855	C	A
AL662844.4	6	31195317	C	T
AL662844.4	6	31195329	C	G
AL662844.4	6	31197323	A	C
AL662844.4	6	31197400	C	T
AL662844.4	6	31197124	T	G
AL662844.4	6	31197661	T	G
AL662844.4	6	31197072	G	A
AL662844.4	6	31197166	G	A
AL671762.1	6	31831842	A	G
AL671762.1	6	31835286	CT	C
AL671762.1	6	31830357	TA	T
AL671762.1	6	31835027	C	G
AL671762.1	6	31830816	G	C
AL671762.1	6	31831616	G	A
AL671762.1	6	31832715	G	A
AL671762.1	6	31839712	C	T
AL671762.1	6	31835297	C	T
AL671762.1	6	31831851	A	G
AL671762.1	6	31831299	T	C
AL671762.1	6	31831576	G	A
AL671762.1	6	31832872	T	A
MTCH1	6	36968995	A	G
MTCH1	6	36977970	A	G
MTCH1	6	36977978	A	G
MTCH1	6	36978005	C	T
MTCH1	6	36979192	A	T
MTCH1	6	36979194	A	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MTCH1	6	36968707	C	T
MTCH1	6	36968921	T	C
MTCH1	6	36969310	T	C
MTCH1	6	36970656	G	A
MTCH1	6	36969871	T	C
MTCH1	6	36968435	C	T
MTCH1	6	36968278	C	T
MTCH1	6	36968864	G	A
MTCH1	6	36977872	C	T
AL109615.3	6	44005495	G	T
AL109615.3	6	44066321	T	C
AL109615.3	6	44064180	G	A
AL109615.3	6	44004687	T	G
AL109615.3	6	44004780	T	A
AL109615.3	6	44004834	T	C
AL109615.3	6	44002921	T	A
AL109615.3	6	44002982	G	T
AL109615.3	6	44002983	C	T
AL109615.3	6	43999107	C	T
AL109615.3	6	44004673	C	T
AL109615.3	6	43999415	C	G
AL109615.3	6	44001077	A	G
AL109615.3	6	44004105	A	G
AL109615.3	6	44004555	G	A
AL109615.3	6	44006369	A	G
AL109615.3	6	44006429	A	C
AL109615.3	6	44065431	T	C
AL109615.3	6	44065801	G	A
AL109615.3	6	44004739	G	T
AL109615.3	6	44004888	C	G
AL109615.3	6	44004992	C	G
AL109615.3	6	44004996	C	T
CYTH3	7	6162474	CA	C
CYTH3	7	6163104	G	T
CYTH3	7	6163600	A	G
CYTH3	7	6207206	T	C
CYTH3	7	6165368	A	C
CYTH3	7	6236364	CT	C
CYTH3	7	6244927	T	C
CYTH3	7	6246172	T	C
CYTH3	7	6253310	T	C
CYTH3	7	6245722	T	C
CYTH3	7	6245828	T	C
CYTH3	7	6163204	G	A
CYTH3	7	6207367	T	C
CYTH3	7	6162782	T	C
CYTH3	7	6163740	A	G
CYTH3	7	6245884	G	A
CYTH3	7	6246232	AT	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CYTH3	7	6245782	T	C
CYTH3	7	6245792	T	C
AC068533.3	7	66154797	A	G
AC068533.3	7	66156017	A	G
AC068533.3	7	66157639	A	G
AC068533.3	7	66158142	A	G
AC068533.3	7	66158865	C	T
AC068533.3	7	66157687	A	G
AC068533.3	7	66157563	A	G
AC068533.3	7	66157985	A	G
AC068533.3	7	66158078	A	G
AC068533.3	7	66158079	A	G
AC068533.3	7	66159366	C	T
AC068533.3	7	66155336	G	A
APTR	7	77662941	AAAGG	A
APTR	7	77683999	G	T
APTR	7	77658613	G	A
APTR	7	77668573	A	G
APTR	7	77668611	A	G
APTR	7	77685303	C	CAA
APTR	7	77685327	G	A
APTR	7	77661233	C	T
APTR	7	77662956	G	C
APTR	7	77663156	AAAAG	A
APTR	7	77660829	G	A
APTR	7	77661732	A	C
APTR	7	77662289	C	A
APTR	7	77662324	A	G
APTR	7	77662434	A	T
APTR	7	77662627	A	T
APTR	7	77662689	G	A
APTR	7	77663114	AGAAAG	A
APTR	7	77663154	GAAAAA	G
APTR	7	77664638	CA	C
APTR	7	77668460	G	A
APTR	7	77669435	T	C
APTR	7	77661076	A	G
APTR	7	77661703	A	T
APTR	7	77663035	CAG	C
APTR	7	77663068	GGA	G
APTR	7	77663016	AACG	A
MXD4	4	2248582	C	T
MXD4	4	2247902	G	A
MXD4	4	2248382	T	C
MXD4	4	2250474	C	T
MXD4	4	2251118	C	T
MXD4	4	2249015	T	C
MXD4	4	2250447	G	C
MXD4	4	2248166	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
MXD4	4	2250166	G	A
MXD4	4	2253336	A	G
MXD4	4	2256907	G	A
MXD4	4	2249401	G	A
MXD4	4	2249449	GT	G
MXD4	4	2249484	G	C
MXD4	4	2255071	T	C
MXD4	4	2250431	CCAGAAATGGCA (SEQ ID No:67)	C
AC018638.5	7	128654392	A	G
AC018638.5	7	128654706	T	C
AC018638.5	7	128654352	G	A
AC018638.5	7	128654295	T	C
AC018638.5	7	128654383	C	T
AC018638.5	7	128654395	G	A
AC018638.5	7	128654129	CCAA	C
AC018638.5	7	128654577	A	G
AC018638.5	7	128654707	G	A
AC018638.5	7	128654069	C	T
AC018638.5	7	128654284	C	T
NAT1	8	18223135	A	T
NAT1	8	18223142	A	C
NAT1	8	18223238	T	G
NAT1	8	18211812	GGAAAA	G
VIRMA	8	94510885	T	C
VIRMA	8	94519191	T	C
VIRMA	8	94529143	T	A
VIRMA	8	94510149	G	C
VIRMA	8	94510810	A	G
VIRMA	8	94529074	A	G
VIRMA	8	94534891	T	G
VIRMA	8	94488696	A	G
VIRMA	8	94539099	T	G
VIRMA	8	94550290	AT	A
VIRMA	8	94550332	A	G
VIRMA	8	94511107	T	G
VIRMA	8	94526240	T	C
NDUFB9	8	124556382	A	G
NDUFB9	8	124549788	C	T
NDUFB9	8	124551149	C	T
NDUFB9	8	124553087	T	C
NDUFB9	8	124551528	A	G
NDUFB9	8	124555852	C	T
NDUFB9	8	124548228	C	G
NDUFB9	8	124548247	A	C
NDUFB9	8	124551749	AT	A
ARL10	5	176384132	T	C
ARL10	5	176384232	C	T
ARL10	5	176388781	G	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
ARL10	5	176388786	A	C
ARL10	5	176388791	C	G
ARL10	5	176388873	T	C
ARL10	5	176392620	T	C
ARL10	5	176387064	TTCTC	T
ARL10	5	176384092	G	A
ARL10	5	176387259	T	C
ARL10	5	176392927	G	A
F13A1	6	6144624	C	A
F13A1	6	6151904	C	G
F13A1	6	6145459	C	T
F13A1	6	6145493	A	G
F13A1	6	6174633	G	A
F13A1	6	6145176	C	T
F13A1	6	6151907	C	T
F13A1	6	6174623	T	C
F13A1	6	6144574	G	C
F13A1	6	6188000	T	C
F13A1	6	6189865	G	C
F13A1	6	6167589	C	T
CMAHP	6	25084490	A	G
CMAHP	6	25108650	AC	A
CMAHP	6	25108653	T	A
CMAHP	6	25106517	A	G
CMAHP	6	25081259	C	T
CMAHP	6	25179963	G	A
CMAHP	6	25180312	C	G
CMAHP	6	25081877	T	C
CMAHP	6	25130699	CT	C
CMAHP	6	25130965	C	T
CMAHP	6	25135679	C	A
CMAHP	6	25106172	C	T
CMAHP	6	25319871	G	A
CMAHP	6	25445074	C	T
UHRF1BP1	6	34877672	T	G
UHRF1BP1	6	34877871	T	C
UHRF1BP1	6	34877986	C	CTAA
UHRF1BP1	6	34794032	A	C
UHRF1BP1	6	34828307	C	T
UHRF1BP1	6	34836170	C	T
UHRF1BP1	6	34837036	T	C
UHRF1BP1	6	34857885	T	C
UHRF1BP1	6	34864089	G	A
UHRF1BP1	6	34876852	T	C
UHRF1BP1	6	34879452	T	C
IMPDH1	7	128394575	C	T
IMPDH1	7	128398501	C	G
IMPDH1	7	128398536	A	G
IMPDH1	7	128392373	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
IMPDH1	7	128392410	C	T
IMPDH1	7	128392779	C	T
MT-CO1	MT	6480	G	A
MT-CO1	MT	7028	C	T
MT-CO1	MT	6734	G	A
MT-CO1	MT	7211	G	A
MT-CO1	MT	6045	C	T
MT-CO1	MT	6152	T	C
MT-CO1	MT	6663	A	G
MT-CO1	MT	7175	T	C
MT-CO1	MT	7256	C	T
MT-CO1	MT	7274	C	T
MT-CO1	MT	7348	T	C
MT-CO1	MT	6464	C	A
MT-CO1	MT	6554	C	T
MT-CO1	MT	6935	C	T
MT-CO1	MT	6345	T	C
MT-CO1	MT	7299	A	G
MT-ND5	MT	12501	G	A
MT-ND5	MT	12705	C	T
MT-ND5	MT	13780	A	G
MT-ND5	MT	13368	C	A
MT-ND5	MT	12612	A	G
MT-ND5	MT	13708	G	A
MT-ND5	MT	13722	A	G
MT-ND5	MT	14133	A	G
MT-ND5	MT	12372	G	A
MT-ND5	MT	12406	G	A
MT-ND5	MT	12557	C	T
MT-ND5	MT	13020	T	C
MT-ND5	MT	13104	A	G
MT-ND5	MT	13734	T	C
MT-ND5	MT	12561	G	A
MT-ND5	MT	13617	T	C
MT-ND5	MT	14003	C	T
MT-ND5	MT	12693	A	G
MT-ND5	MT	13590	G	A
MT-ND5	MT	13650	C	T
MT-ND5	MT	13803	A	G
MT-ND5	MT	13637	A	G
MT-ND5	MT	13681	A	G
MT-ND5	MT	13879	T	C
SLC8B1	12	113358761	A	C
SLC8B1	12	113299420	G	A
SLC8B1	12	113311824	T	C
SLC8B1	12	113313021	T	C
SLC8B1	12	113324545	T	C
SLC8B1	12	113299578	G	A
SLC8B1	12	113300075	TCAA	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
SLC8B1	12	113311835	T	C
SLC8B1	12	113328762	C	T
SLC8B1	12	113299180	G	A
SLC8B1	12	113299577	G	A
SLC8B1	12	113331373	T	C
SLC8B1	12	113299058	G	T
SLC8B1	12	113320084	C	T
SLC8B1	12	113320361	G	A
SLC8B1	12	113325482	C	G
SLC8B1	12	113326284	G	T
SLC8B1	12	113326372	T	A
SLC8B1	12	113328659	A	G
SLC8B1	12	113299200	G	A
SLC8B1	12	113334738	T	C
CNIH1	14	54424303	G	A
CNIH1	14	54424900	T	C
CNIH1	14	54425181	C	T
CNIH1	14	54425384	GA	G
CNIH1	14	54426043	T	C
CNIH1	14	54427107	TAA	T
CNIH1	14	54424206	G	C
CNIH1	14	54427578	T	C
CNIH1	14	54423661	C	A
CNIH1	14	54439587	G	T
USF2	19	35279161	C	T
USF2	19	35279271	A	G
USF2	19	35279389	C	T
USF2	19	35279568	C	T
USF2	19	35279153	G	A
USF2	19	35269853	C	G
USF2	19	35278615	T	C
USF2	19	35279766	TAGAG	T
USF2	19	35272460	A	G
USF2	19	35277334	A	T
USF2	19	35277925	T	C
USF2	19	35278658	T	G
PTMA	2	231708582	T	C
PTMA	2	231708591	C	T
PTMA	2	231709597	C	T
PTMA	2	231711964	G	A
PTMA	2	231709234	G	C
PTMA	2	231709245	C	T
PTMA	2	231710915	T	C
PTMA	2	231710920	CTTAT	C
PTMA	2	231711182	A	G
PTMA	2	231708644	C	T
PTMA	2	231712799	C	A
PTMA	2	231712801	T	G
NR1D2	3	23968649	C	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NR1D2	3	23969881	G	A
NR1D2	3	23969905	A	G
NR1D2	3	23977836	A	C
NR1D2	3	23978485	CA	C
NR1D2	3	23958806	A	G
NR1D2	3	23959005	A	G
NR1D2	3	23980418	A	C
NR1D2	3	23953287	A	G
NR1D2	3	23965129	C	G
NR1D2	3	23980285	A	G
NME4	16	399659	G	A
NME4	16	400309	C	T
NME4	16	401170	A	G
NME4	16	401306	T	C
NME4	16	401487	G	A
CES1P1	16	55772497	T	C
CES1P1	16	55774796	C	T
CES1P1	16	55774979	AGAGG	A
CES1P1	16	55775116	A	G
CES1P1	16	55775223	GTCTC	G
CES1P1	16	55775279	A	G
CES1P1	16	55775316	A	G
CES1P1	16	55775067	C	T
CES1P1	16	55774281	A	C
CES1P1	16	55774452	G	A
CES1P1	16	55774627	C	A
CES1P1	16	55774669	T	C
CES1P1	16	55774842	G	A
CES1P1	16	55774893	G	A
CES1P1	16	55779732	C	T
CES1P1	16	55772399	G	T
CES1P1	16	55775393	A	C
CES1P1	16	55775437	A	T
CES1P1	16	55776758	A	G
CES1P1	16	55785990	GAGA	G
CES1P1	16	55760937	C	T
CES1P1	16	55760970	A	T
CES1P1	16	55785759	T	C
CES1P1	16	55785764	A	C
CES1P1	16	55760618	C	T
CES1P1	16	55764706	T	C
CES1P1	16	55764720	T	G
CES1P1	16	55770015	C	T
CES1P1	16	55775573	C	T
CES1P1	16	55776173	A	G
CES1P1	16	55776232	T	G
CES1P1	16	55776430	C	G
CES1P1	16	55779315	C	A
LINC00910	17	43361306	G	A

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LINC00910	17	43361324	C	G
LINC00910	17	43350035	A	C
LINC00910	17	43350101	A	C
LINC00910	17	43350353	A	G
LINC00910	17	43357506	G	T
LINC00910	17	43357622	G	T
LINC00910	17	43360867	GTAACCTTTAACTCAA (SEQ ID No: 68)	G
LINC00910	17	43361038	G	T
LINC00910	17	43361100	C	T
LINC00910	17	43361194	T	C
LINC00910	17	43361216	C	G
LINC00910	17	43365021	G	C
LINC00910	17	43365037	T	C
LINC00910	17	43365042	G	T
LINC00910	17	43365043	G	C
LINC00910	17	43360444	C	T
LINC00910	17	43345617	T	C
LINC00910	17	43345649	G	A
LINC00910	17	43346576	C	T
LINC00910	17	43357824	C	T
LINC00910	17	43359210	A	G
LINC00910	17	43359227	A	T
LINC00910	17	43359284	T	C
LINC00910	17	43359312	C	T
LINC00910	17	43360385	G	A
LINC00910	17	43363801	G	A
LINC00910	17	43339704	GGTTAA	G
LINC00910	17	43339745	A	T
LINC00910	17	43359485	C	T
LINC00910	17	43360184	T	C
LINC00910	17	43360445	G	A
LINC00910	17	43361199	C	A
LINC00910	17	43361226	T	G
LINC00910	17	43361241	G	C
LINC00910	17	43361251	G	A
LINC00910	17	43362434	G	A
LINC00910	17	43367777	G	A
LINC00910	17	43368042	A	T
LINC00910	17	43350693	T	C
TUBB	6	30725188	G	A
TUBB	6	30725344	A	G
TUBB	6	30724762	C	T
TUBB	6	30724806	A	G
TUBB	6	30725386	C	T
TUBB	6	30725353	TTGC	T
TUBB	6	30722488	A	T
TUBB	6	30724516	TG	T

Table 13: Monocyte High IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TUBB	6	30724991	C	G
PPP1R3B	8	9139250	C	G
PPP1R3B	8	9140512	A	C
PPP1R3B	8	9137002	A	G
PPP1R3B	8	9137426	A	T
PPP1R3B	8	9138245	T	A
PPP1R3B	8	9138763	C	T
PPP1R3B	8	9139185	A	G
PPP1R3B	8	9137656	A	G
PPP1R3B	8	9137877	A	G
PPP1R3B	8	9138784	C	T
PPP1R3B	8	9140288	C	G
PPP1R3B	8	9137621	G	A
PPP1R3B	8	9138980	G	A
PPP1R3B	8	9139551	CTT	C
PPP1R3B	8	9139586	C	T
PPP1R3B	8	9139684	G	T
PPP1R3B	8	9139697	C	G
PPP1R3B	8	9140367	C	T
PPP1R3B	8	9138520	A	G
PPP1R3B	8	9140752	C	T
PPP1R3B	8	9140753	T	G
PPP1R3B	8	9144276	C	G
PPP1R3B	8	9139426	T	A
ATP5F1A	18	46081477	C	T
ATP5F1A	18	46081480	C	G
ATP5F1A	18	46081078	C	T
ATP5F1A	18	46081084	C	T
ATP5F1A	18	46081514	A	C
ATP5F1A	18	46082156	A	G
ATP5F1A	18	46082307	G	A
ATP5F1A	18	46082513	G	A
ATP5F1A	18	46083707	C	T
ATP5F1A	18	46083996	C	A
ATP5F1A	18	46085372	C	T
ATP5F1A	18	46085382	G	A
ATP5F1A	18	46093993	C	G
ATP5F1A	18	46094680	C	A
ATP5F1A	18	46092049	T	C
ATP5F1A	18	46093359	A	G
ATP5F1A	18	46093299	C	A
ATP5F1A	18	46098270	A	G
ATP5F1A	18	46080885	T	C
CSTB	21	43773877	T	C
CSTB	21	43773435	T	G
CSTB	21	43774109	T	C
CSTB	21	43772743	G	A
CSTB	21	43775215	A	C
CSTB	21	43775230	A	C

Table 13: Monocyte High IL-10 Responder SNP / INDEL				
Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CSTB	21	43775238	A	C
CSTB	21	43773261	G	T
CSTB	21	43773282	G	A
NORAD	20	36045977	C	T
NORAD	20	36047299	C	T
NORAD	20	36047519	T	G
NORAD	20	36048359	C	T
NORAD	20	36049712	G	A
NORAD	20	36050133	G	A
NORAD	20	36049808	G	A
NORAD	20	36048498	G	A
NORAD	20	36046992	G	T
NORAD	20	36047615	T	C
NORAD	20	36049892	C	G
NORAD	20	36050627	G	A

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
AC092279.1	19	24037109	A	G
AC092279.1	19	24037109	A	G
AC092279.1	19	24045471	C	T
AC092279.1	19	24045496	C	G
AC092279.1	19	24046232	A	G
AC092279.1	19	24046232	A	G
AC092279.1	19	24046232	A	G
AC092279.1	19	24046233	A	C
AC092279.1	19	24046233	A	C
AC092279.1	19	24046233	A	C
AC092279.1	19	24047786	T	C
AC092279.1	19	24048982	G	A
AC092279.1	19	24049493	C	T
AC092279.1	19	24049493	C	T
AC092279.1	19	24055030	A	G
AC092279.1	19	24055036	A	G
AC092279.1	19	24055045	T	A
AC092279.1	19	24055273	C	T
AC092279.1	19	24055340	C	T
AC092279.1	19	24055361	T	C
AC092279.1	19	24055366	A	G
AC092279.1	19	24055520	A	G
AC092279.1	19	24055529	A	G
AC092279.1	19	24056000	C	G
AC092279.1	19	24056181	G	A
AC092279.1	19	24056195	C	G
AC092279.1	19	24062692	C	T
AC092279.1	19	24065562	C	T
AC092279.1	19	24065611	C	T
AC092279.1	19	24066683	TAAAACAAAAC (SEQ ID No:69)	T
AC092279.1	19	24066783	G	C
AC092279.1	19	24066854	T	C
BMPR2	2	202383496	C	T
BMPR2	2	202388210	A	G
BMPR2	2	202388211	A	G
BMPR2	2	202388211	A	G
BMPR2	2	202388211	A	G
BMPR2	2	202388247	A	G
BMPR2	2	202388276	A	G
BMPR2	2	202388276	A	G
BMPR2	2	202395978	A	G
BMPR2	2	202405656	C	G
BMPR2	2	202405656	C	G

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
BMPR2	2	202421641	CA	C
BMPR2	2	202426381	A	G
BMPR2	2	202427192	A	G
BMPR2	2	202427192	A	G
BMPR2	2	202427316	C	T
BMPR2	2	202427316	C	T
BMPR2	2	202434757	A	G
BMPR2	2	202441132	T	C
BMPR2	2	202441604	A	G
BMPR2	2	202441604	A	G
BMPR2	2	202441912	A	G
BMPR2	2	202441912	A	G
BMPR2	2	202441913	A	G
BMPR2	2	202442035	C	T
BMPR2	2	202448308	G	C
BMPR2	2	202448309	G	A
BMPR2	2	202448311	C	T
BMPR2	2	202450817	A	G
BMPR2	2	202455944	A	G
BMPR2	2	202458363	A	G
BMPR2	2	202458363	A	G
BMPR2	2	202458398	A	G
BMPR2	2	202467901	A	C
BMPR2	2	202470089	A	G
BMPR2	2	202470910	A	C
BMPR2	2	202475845	C	A
BMPR2	2	202475845	C	A
BMPR2	2	202475927	A	G
BMPR2	2	202480832	A	G
BMPR2	2	202480834	A	G
BMPR2	2	202485032	A	G
BMPR2	2	202485073	C	T
BMPR2	2	202485073	C	T
BMPR2	2	202522911	G	A
BMPR2	2	202556476	G	A
BMPR2	2	202560752	C	T
BMPR2	2	202561182	C	A
BMPR2	2	202561945	T	G
BMPR2	2	202565733	T	G
BMPR2	2	202565733	T	G
BMPR2	2	202567081	A	G
Clorf21	1	184431813	C	T
Clorf21	1	184431813	C	T
Clorf21	1	184431847	A	G

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
Clorf21	1	184432413	A	C
Clorf21	1	184432726	C	T
Clorf21	1	184469100	G	A
Clorf21	1	184469100	G	A
Clorf21	1	184469202	G	A
Clorf21	1	184469202	G	A
Clorf21	1	184488959	T	C
Clorf21	1	184489387	CA	C
Clorf21	1	184503178	G	C
Clorf21	1	184503178	G	C
Clorf21	1	184529646	C	T
Clorf21	1	184571015	C	T
Clorf21	1	184572813	A	G
Clorf21	1	184573918	A	G
Clorf21	1	184573918	A	G
Clorf21	1	184575023	A	T
Clorf21	1	184575611	TA	T
Clorf21	1	184575708	A	G
Clorf21	1	184575708	A	G
Clorf21	1	184575896	C	A
Clorf21	1	184578916	C	T
Clorf21	1	184578916	C	T
Clorf21	1	184578993	TA	T
Clorf21	1	184591718	G	T
Clorf21	1	184591718	G	T
Clorf21	1	184592189	A	T
Clorf21	1	184596779	G	C
Clorf21	1	184596873	CA	C
Clorf21	1	184596873	CA	C
Clorf21	1	184610779	C	T
Clorf21	1	184619865	T	C
Clorf21	1	184620584	C	G
CEACAM21	19	41555937	C	T
CEACAM21	19	41562278	G	A
CEACAM21	19	41564935	C	T
CEACAM21	19	41564935	C	T
CEACAM21	19	41564935	C	T
CEACAM21	19	41565057	G	A
CEACAM21	19	41565057	G	A
CEACAM21	19	41565057	G	A
CEACAM21	19	41565058	T	C
CEACAM21	19	41565058	T	C
CEACAM21	19	41565058	T	C
CEACAM21	19	41565059	G	A

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
CEACAM21	19	41565059	G	A
CEACAM21	19	41565059	G	A
CEACAM21	19	41565060	A	G
CEACAM21	19	41565060	A	G
CEACAM21	19	41565060	A	G
CEACAM21	19	41565786	T	A
CEACAM21	19	41565931	A	G
CEACAM21	19	41565931	A	G
CEACAM21	19	41565931	A	G
CEACAM21	19	41566244	A	G
CEACAM21	19	41566244	A	G
CEACAM21	19	41566244	A	G
CEACAM21	19	41566673	T	A
CEACAM21	19	41577321	T	C
CEACAM21	19	41577468	C	G
CEACAM21	19	41577497	A	C
CEACAM21	19	41585480	C	A
EIF3D	22	36511051	T	C
EIF3D	22	36511051	T	C
EIF3D	22	36511051	T	C
EIF3D	22	36512055	T	C
EIF3D	22	36513345	C	G
EIF3D	22	36513345	C	G
EIF3D	22	36516583	A	G
EIF3D	22	36516583	A	G
EIF3D	22	36516583	A	G
EIF3D	22	36517778	T	C
EIF3D	22	36518475	T	C
EIF3D	22	36524605	T	C
EIF3D	22	36526005	T	C
EIF3D	22	36526005	T	C
EIF3D	22	36526005	T	C
EIF3D	22	36526676	T	C
EIF3D	22	36526676	T	C
EIF3D	22	36526751	G	A
EIF3D	22	36526775	G	C
EIF3D	22	36526775	G	C
EIF3D	22	36526832	T	G
LCORL	4	17852949	C	A
LCORL	4	17852965	T	A
LCORL	4	17869389	C	G
LCORL	4	17869389	C	G
LCORL	4	17880617	T	C
LCORL	4	17890741	G	A

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
LCORL	4	17892209	C	T
LCORL	4	17897328	G	A
LCORL	4	17898652	GT	G
LCORL	4	17900056	C	T
LCORL	4	17900056	C	T
LCORL	4	17906790	A	G
LCORL	4	17916705	C	T
LCORL	4	17917077	C	A
LCORL	4	17917077	C	T
LCORL	4	17917077	C	A
LCORL	4	17917077	C	A
LCORL	4	17917213	T	G
LCORL	4	17917213	T	G
LCORL	4	17933422	C	G
LCORL	4	17933422	C	G
LCORL	4	17933422	C	G
LCORL	4	17933460	T	C
LCORL	4	17933460	T	C
LCORL	4	17937679	T	C
LCORL	4	17937708	C	T
LCORL	4	17938117	G	T
LCORL	4	17938117	G	T
LCORL	4	17938298	C	T
LCORL	4	17938298	C	T
LCORL	4	17938417	CT	C
LCORL	4	17938417	CT	C
LCORL	4	17938574	A	G
LCORL	4	17938574	A	G
LCORL	4	17938604	T	C
LCORL	4	17938604	T	C
LCORL	4	17975156	A	G
LCORL	4	17975156	A	G
LCORL	4	17975223	C	A
LCORL	4	17975223	C	A
LCORL	4	17986518	A	G
LCORL	4	17990056	T	C
LCORL	4	17990056	T	C
LCORL	4	17990056	T	C
LCORL	4	17990709	A	G
LCORL	4	17990709	A	G
LCORL	4	17995205	AT	A
LCORL	4	17995205	AT	A
LCORL	4	17995205	AT	A
NELL2	12	44508481	T	C

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
NELL2	12	44508481	T	C
NELL2	12	44508790	A	G
NELL2	12	44508790	A	G
NELL2	12	44508790	A	G
NELL2	12	44516771	C	T
NELL2	12	44520952	G	A
NELL2	12	44574210	A	T
NELL2	12	44576509	A	T
NELL2	12	44595489	C	T
NELL2	12	44595489	C	T
NELL2	12	44599899	G	T
NELL2	12	44600104	G	C
NELL2	12	44641893	C	T
NELL2	12	44681141	A	G
NELL2	12	44681141	A	G
NELL2	12	44681141	A	G
NELL2	12	44686177	G	A
NELL2	12	44714697	T	C
NELL2	12	44736301	G	A
NELL2	12	44772822	C	T
NELL2	12	44774414	C	T
NELL2	12	44821813	G	C
NELL2	12	44824769	G	C
NELL2	12	44824769	G	C
NELL2	12	44834414	T	C
NELL2	12	44834414	T	C
NELL2	12	44834541	A	G
NELL2	12	44834541	A	G
NELL2	12	44875920	A	T
NELL2	12	44875920	A	T
NELL2	12	44876270	C	G
P4HA1	10	73007577	A	G
P4HA1	10	73007577	A	G
P4HA1	10	73007577	A	G
P4HA1	10	73007579	TA	T
P4HA1	10	73007636	G	A
P4HA1	10	73007644	A	G
P4HA1	10	73007770	T	C
P4HA1	10	73007937	C	T
P4HA1	10	73007937	C	T
P4HA1	10	73008019	T	TTACA
P4HA1	10	73008240	C	G
P4HA1	10	73040561	T	C
P4HA1	10	73042338	A	G

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
P4HA1	10	73047086	T	TT
P4HA1	10	73069884	T	C
P4HA1	10	73070141	C	A
P4HA1	10	73070141	C	A
P4HA1	10	73074893	T	C
P4HA1	10	73074893	T	C
P4HA1	10	73092241	A	G
P4HA1	10	73092577	T	C
P4HA1	10	73092922	T	C
P4HA1	10	73092922	T	C
PBRM1	3	52584303	A	C
PBRM1	3	52584346	G	C
PBRM1	3	52585776	T	C
PBRM1	3	52587611	C	T
PBRM1	3	52588070	G	A
PBRM1	3	52588572	T	G
PBRM1	3	52588573	T	A
PBRM1	3	52588576	G	C
PBRM1	3	52588578	C	G
PBRM1	3	52591718	C	T
PBRM1	3	52593108	T	C
PBRM1	3	52595161	A	T
PBRM1	3	52595161	A	T
PBRM1	3	52603470	C	G
PBRM1	3	52603615	T	C
PBRM1	3	52609669	T	C
PBRM1	3	52625947	G	A
PBRM1	3	52634622	G	A
PBRM1	3	52638515	T	C
PBRM1	3	52638726	T	C
PBRM1	3	52638726	T	C
PBRM1	3	52639728	T	C
PBRM1	3	52639729	T	C
PBRM1	3	52645506	CT	C
PBRM1	3	52647916	CT	C
PBRM1	3	52647916	CT	C
PBRM1	3	52673199	G	A
PBRM1	3	52673199	G	A
PBRM1	3	52673212	T	C
PBRM1	3	52685800	C	T
PBRM1	3	52685800	C	T
PBRM1	3	52685800	C	T
PRH1	12	11024624	A	T
PRH1	12	11047135	T	C

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PRH1	12	11047135	T	C
PRH1	12	11052741	C	A
PRH1	12	11066423	A	G
PRH1	12	11066442	T	C
PRH1	12	11066489	T	C
PRH1	12	11066547	C	T
PRH1	12	11148963	A	C
PRH1	12	11148963	A	C
PRH1	12	11149090	T	C
PRH1	12	11149090	T	C
PRH1	12	11149123	G	A
PRH1	12	11150665	A	T
PRH1	12	11150676	T	C
PRH1	12	11150676	T	C
PRH1	12	11150713	T	C
PRH1	12	11150810	T	C
PRH1	12	11151814	T	C
PRH1	12	11151939	AT	A
PRH1	12	11151939	AT	A
PRH1	12	11151961	C	T
PRH1	12	11152146	T	C
PRH1	12	11152165	T	C
PRH1	12	11152183	T	C
PRH1	12	11156844	ATTT	A
PRH1	12	11156844	ATTT	A
PRH1	12	11156938	T	C
PRH1	12	11156938	T	C
PRH1	12	11156994	C	T
PRH1	12	11165319	CCT	C
PRH1	12	11167375	T	C
PRH1	12	11167375	T	C
PRH1	12	11167412	A	AT
PRH1	12	11167531	A	G
PRH1	12	11167531	A	G
PRH1	12	11171249	G	A
PRH1	12	11171249	G	A
PRH1	12	11171249	G	A
PRH1	12	11171252	A	G
PRH1	12	11171252	A	G
PRH1	12	11171252	A	G
PRH1	12	11171340	G	C
PRH1	12	11171340	G	C
PRH1	12	11171340	G	C
PRH1	12	11171344	C	T

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
PRH1	12	11171395	G	A
PRH1	12	11171395	G	A
PRH1	12	11171395	G	A
PRH1	12	11171577	C	A
PRH1	12	11171577	C	A
PRH1	12	11171577	C	A
RGS10	10	119500098	C	T
RGS10	10	119500098	C	T
RGS10	10	119505252	A	G
RGS10	10	119505415	T	C
RGS10	10	119505415	T	C
RGS10	10	119505415	T	C
RGS10	10	119507504	G	A
RGS10	10	119507504	G	A
RGS10	10	119507504	G	A
RGS10	10	119507697	G	A
RGS10	10	119507697	G	A
RGS10	10	119507749	T	G
RGS10	10	119515587	G	A
RGS10	10	119522911	T	C
RGS10	10	119522911	T	C
RGS10	10	119522912	T	C
RGS10	10	119522912	T	C
RGS10	10	119522913	T	C
RGS10	10	119522913	T	C
RGS10	10	119540401	T	C
TNRC6C	17	77970888	A	G
TNRC6C	17	77970888	A	G
TNRC6C	17	77970950	A	G
TNRC6C	17	77971867	TA	T
TNRC6C	17	77971867	TA	T
TNRC6C	17	78051168	G	A
TNRC6C	17	78051411	C	T
TNRC6C	17	78059855	A	AG
TNRC6C	17	78076239	A	G
TNRC6C	17	78086942	G	A
TNRC6C	17	78097785	T	C
TNRC6C	17	78104848	T	G
TNRC6C	17	78106055	GA	G
TNRC6C	17	78106055	GA	G
TNRC6C	17	78106055	GA	G
TNRC6C	17	78106253	TA	T
TNRC6C	17	78106253	TA	T
TNRC6C	17	78106253	TA	T

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
TNRC6C	17	78106537	C	A
TNRC6C	17	78106537	C	A
TNRC6C	17	78106537	C	A
TNRC6C	17	78107582	C	T
TNRC6C	17	78107582	C	T
TNRC6C	17	78107603	G	C
TNRC6C	17	78108035	C	T
USP32	17	60177359	CTATT	C
USP32	17	60177769	G	A
USP32	17	60179181	C	T
USP32	17	60198384	G	A
USP32	17	60214098	T	C
USP32	17	60222812	T	G
USP32	17	60228203	T	C
USP32	17	60228500	TC	T
USP32	17	60232386	T	C
USP32	17	60232386	T	C
USP32	17	60237289	T	C
USP32	17	60237289	T	C
USP32	17	60239586	T	A
USP32	17	60246415	T	A
USP32	17	60246704	A	T
USP32	17	60247338	C	T
USP32	17	60248507	A	G
USP32	17	60248507	A	G
USP32	17	60249022	T	C
USP32	17	60255022	C	T
USP32	17	60271806	T	C
USP32	17	60271806	T	C
USP32	17	60284100	A	G
USP32	17	60284266	T	G
USP32	17	60284268	T	C
USP32	17	60297244	T	C
USP32	17	60297244	T	C
USP32	17	60297447	CT	C
USP32	17	60297447	CT	C
USP32	17	60297623	T	C
USP32	17	60297623	T	C
USP32	17	60314202	AT	A
USP32	17	60314202	AT	A
USP32	17	60314202	AT	A
USP32	17	60326448	T	C
USP32	17	60330517	TC	T
USP32	17	60330517	TC	T

Table 14: Monocyte Low IL-10 Responder SNP / INDEL

Gene	Chromosome	Chromosome Position	Reference Seq.	Alternative Seq.
USP32	17	60330582	T	C
USP32	17	60330685	T	C
USP32	17	60365944	G	A
USP32	17	60366038	C	T
USP32	17	60373443	AT	A
USP32	17	60373548	AT	A
USP32	17	60373548	AT	A
WWP1	8	86360161	C	A
WWP1	8	86360161	C	A
WWP1	8	86363647	A	C
WWP1	8	86364035	T	C
WWP1	8	86365061	G	A
WWP1	8	86365089	A	G
WWP1	8	86372094	A	G
WWP1	8	86395104	T	C
WWP1	8	86395104	T	C
WWP1	8	86395104	T	C
WWP1	8	86438662	T	C
WWP1	8	86451366	C	A
WWP1	8	86451366	C	A
WWP1	8	86451409	T	G
WWP1	8	86467581	C	T
WWP1	8	86467581	C	T
WWP1	8	86467868	G	A
WWP1	8	86467868	G	A
WWP1	8	86467868	C	A
WWP1	8	86471379	T	C
WWP1	8	86471492	T	C
WWP1	8	86471492	T	C
WWP1	8	86472411	T	C
WWP1	8	86472440	C	T
WWP1	8	86472440	C	T
WWP1	8	86472684	G	A
WWP1	8	86472684	G	A
WWP1	8	86472690	G	A
WWP1	8	86472690	G	A
WWP1	8	86473254	G	C
WWP1	8	86473254	G	C
WWP1	8	86473939	T	C

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CLAIMS

1. A method of genotyping a single nucleotide polymorphism (SNP) or insertion or deletion of bases (INDEL) to obtain a profile indicative of patient receptiveness to treatment with IL-10 or an IL-10 based agent comprising
 - contacting a cellular sample from a patient with a proinflammatory stimulus to elicit IL-10 induction;
 - measuring the levels of TNF- α production and the levels of IL-10 induction from the cellular sample;
 - selecting the patient sample exhibiting a dual phenotype of
 - high TNF- α reduction in response to IL-10 or an IL-10 based agent stimulation and
 - low IL-10 induction; and
 - sequencing the entire genome from the patient exhibiting the dual phenotype for the presence of a SNP and/or INDEL profile.
2. The method of claim 1, wherein the cellular sample is obtained from peripheral blood.
3. The method of claim 1, wherein the cellular sample is a macrophage.
4. The method of claim 1, wherein the IL-10 is an IL-10 derivative.
5. The method of claim 1, wherein the IL-10 agent is an IL-10 fusion protein, wherein the fusion protein is an IL-10 fused to a minibody or diabody.
6. The method of claim 1, wherein the proinflammatory stimulus is lipopolysaccharide (LPS).
7. The method of claim 1, wherein the treatment is for an inflammatory disease.
8. The method of claim 1, wherein the inflammatory disease is inflammatory bowel disease (IBD), Crohn's disease or ulcerative colitis.
9. The method of claim 1, wherein patient is healthy patient or diseased patient.
10. The method of claim 1, further comprising selecting a patient sample exhibiting low or medium CD8+ T cell IFN- γ secretion.
11. A method of genotyping a single nucleotide polymorphism (SNP) or insertion or deletion of bases (INDEL) to obtain a profile indicative of patient receptiveness to treatment with IL-10 or an IL-10 based agent comprising
 - contacting activated CD8+ T cells obtained from the patient with an amount of IL-10 or an IL-10 based agent to induce secretion of IFN- γ ;
 - measuring the level of IFN- γ secretion;
 - selecting the patient sample exhibiting a phenotype of high and/or medium IFN- γ secretion by CD8+ T cells; and
 - sequencing the entire genome from the patient exhibiting the phenotype for the presence of a SNP and/or INDEL profile.

12. The method of claim 11, wherein the CD8+ T cells are purified from a peripheral blood sample.
13. The method of claim 12, wherein the CD8+ T cells are activated with an anti-CD3 antibody prior to stimulation by an IL-10 or IL-10 based agent.
14. The method of claim 12, wherein the IL-10 is an IL-10 derivative.
15. The method of claim 12, wherein the IL-10 agent is an IL-10 fusion protein, wherein the fusion protein is an IL-10 fused to a minibody or diabody.
16. The method of claim 11, wherein the treatment is for cancer or autoimmune diseases/disorders.
17. The method of claim 11, wherein patient is healthy patient or diseased patient.
18. The method of claim 11, wherein the profile is a gene and protein expression profile provided in Tables 3 and 4.
19. A method for treating a patient suffering from an disease or disorder alleviated by IL-10 or an IL-10 based agent comprising
 - genetically profiling a sample obtained from a diseased patient for a SNP / INDEL profile, wherein the SNP / INDEL profile is correlated with a phenotypic trait wherein the macrophages respond to IL-10 by reducing the level of TNF- α and produces low amounts of IL-10 in response to LPS stimulation;
 - selecting a patient possessing the SNP / INDEL profile; and
 - administering to the patient a therapeutically effective amount of an IL-10 or IL-10 based agent.
20. A method of treating inflammatory bowel disease (IBD) comprising administering to a patient in need thereof a therapeutically effective amount of an IL-10 or an IL-10 based agent, wherein the patient possess a SNP / INDEL profile associated with low IL-10 production and high responsiveness to IL-10 as measured by a decreased secretion of TNF- by monocytes.
21. The method of claim 20, wherein the low IL-10 production is measured from a monocyte/macrophage in response to a proinflammatory stimulus.
22. The method of claim 20, wherein the high responsiveness to IL-10 is measured as the ability of IL-10 to reduce the secretion of TNF- .
23. The method of claim 19, wherein the IBD is Crohn's disease or ulcerative colitis.
24. A method of determining whether a subject is likely or less likely to respond to treatment with IL-10 or an IL-10 based agent comprising sequencing a patient cellular sample for a SNP or INDEL profile indicative of reduced TNF- production and low IL-10 induction, wherein the reduced TNF- production is in response to IL-10 based stimulus and low IL-10 induction is in response to a proinflammatory stimulus.
25. A method of treating an inflammatory disease comprising administering to a subject in need thereof an IL-10 or an IL-10 based agent, wherein the subject is genetically profiled to possess a single

nucleotide polymorphism (SNP) or an insertion or deletion of bases (INDEL) profile associated with a dual phenotype of high TNF- reduction in response to an IL-10 based stimulus and low IL-10 induction in response to a proinflammatory stimulus.

26. The method of claim 25, wherein the dual phenotype is exhibited by a monocyte/macrophage.

27. The method of claim 25, wherein the proinflammatory stimulus is lipopolysaccharide (LPS).

28. The method of claim 25, wherein inflammatory disease is IBD, Crohn's diseases, ulcerative colitis.

29. A method for treating a patient suffering from a disease or disorder alleviated by IL-10 or an IL-10 based agent comprising

- genetically profiling a sample obtained from a diseased patient for a SNP / INDEL profile, wherein the SNP / INDEL profile is correlated with a phenotypic trait of high and/or medium secretion of IFN- γ by activated CD8+ T cells in response to IL-10 or IL-10 based agent stimulation;
- selecting a patient possessing the SNP / INDEL profile; and
- administering to the patient a therapeutically effective amount of an IL-10 or IL-10 based agent.

30. The method of claim 29, wherein the profile is based on a gene and protein expression signature provide in Tables 3 and 4.

31. A method of treating cancer comprising administering to a patient in need thereof a therapeutically effective amount of an IL-10 or an IL-10 based agent, wherein the patient possess a SNP / INDEL profile in Tables 9 and 10 based on a gene expression profiles provided in Tables 3 and 4.

32. A method of determining whether a subject is likely or less likely to respond to treatment with IL-10 or an IL-10 based agent comprising sequencing a patient cellular sample for a SNP or INDEL profile indicative of high and/or intermediate and/or low IFN- γ secretion by CD8+ T cells.

33. The method of claim 32, wherein the treatment is for cancer or autoimmune disease.

34. The method of claim 32, wherein the profile is based on a gene expression signature provided in Tables 3 and 4.

35. The method of claim 32, wherein the SNP and/or INDEL profile associated with high and/or intermediate IFN- γ secretion by CD8+ T cells is indicative of responsiveness for cancer treatment.

36. The method of claim 32, wherein the SNP and/or INDEL profile associated with low and/or intermediate IFN- secretion by CD8+ T cells is indicative of responsiveness for autoimmune disease treatment.

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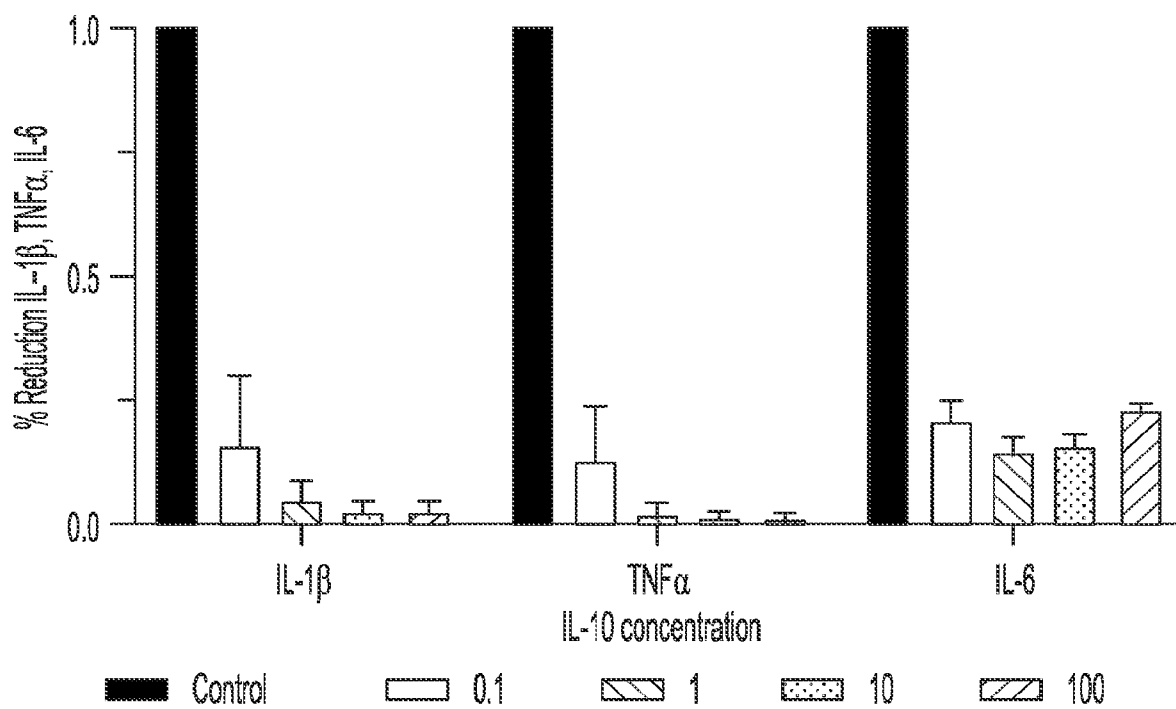


Fig. 1

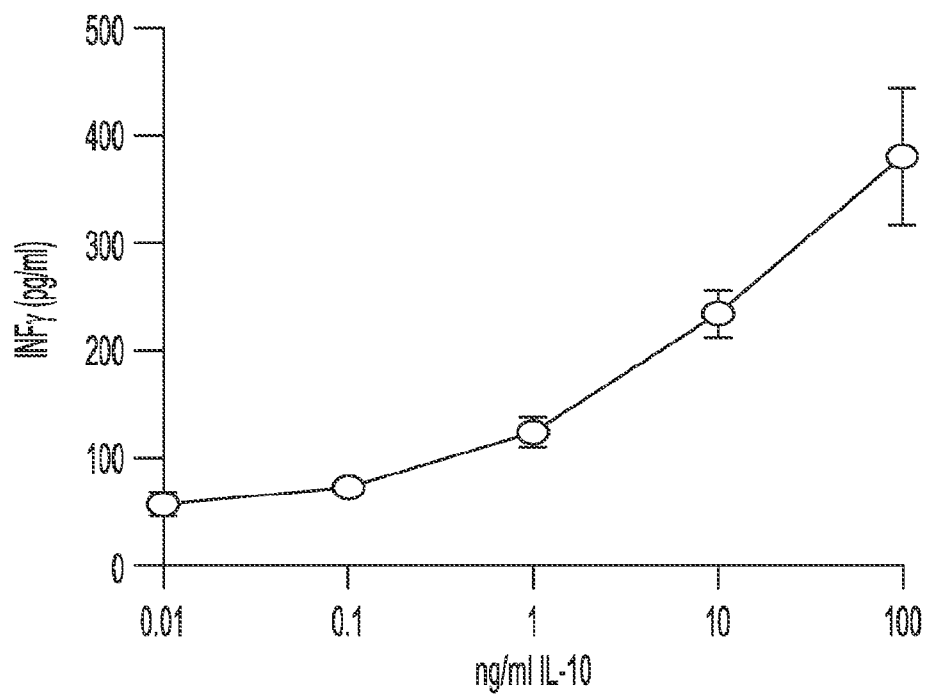
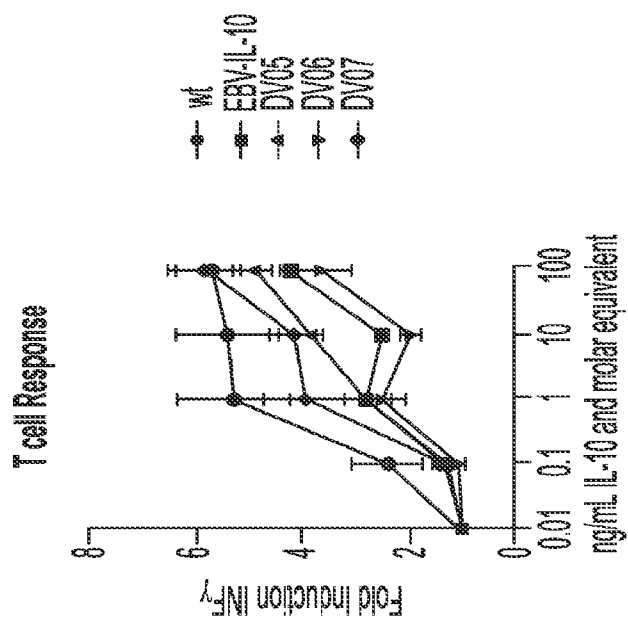
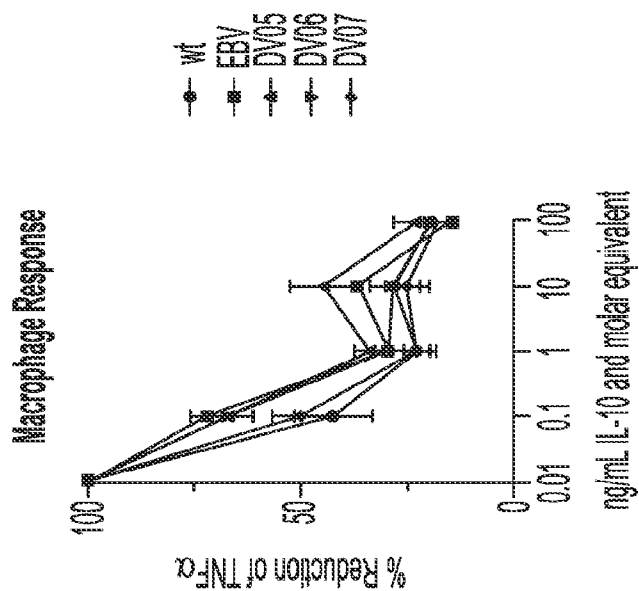
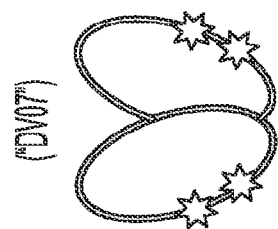
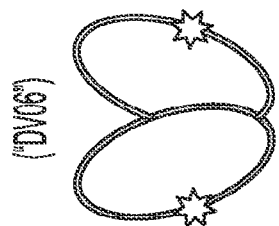
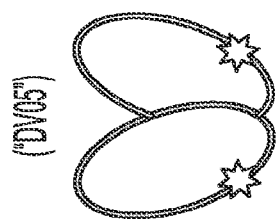


Fig. 2



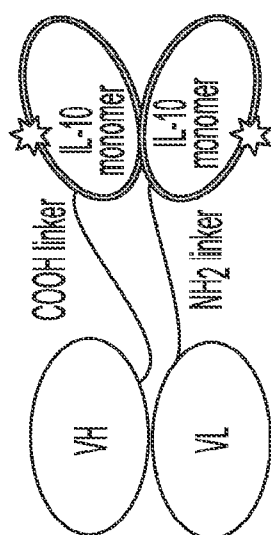


Fig. 4D

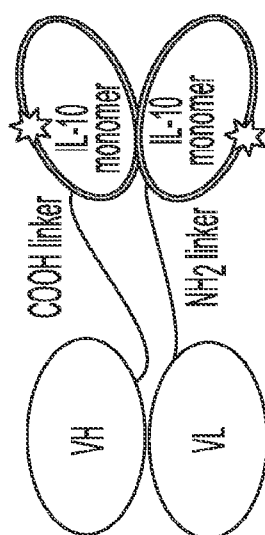


Fig. 4E

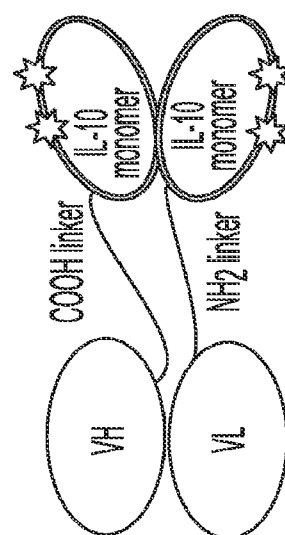


Fig. 4F

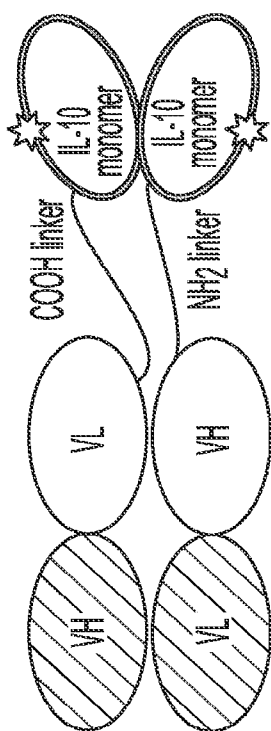


Fig. 4A

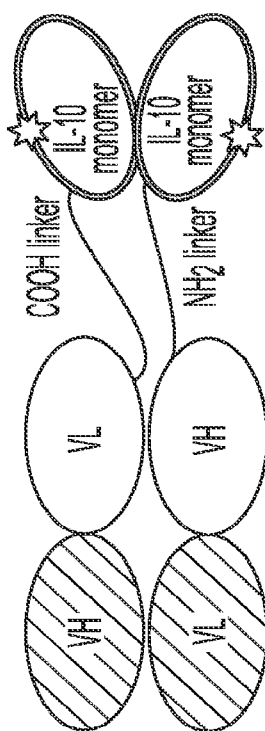


Fig. 4B

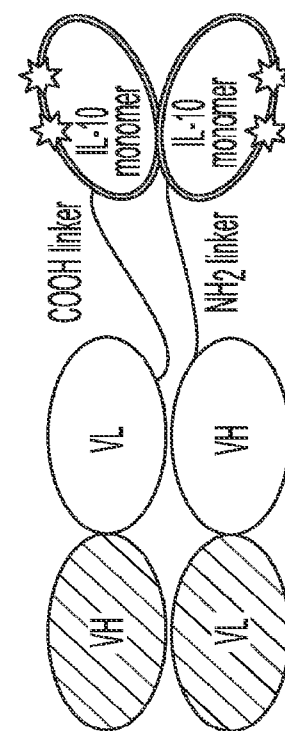


Fig. 4C

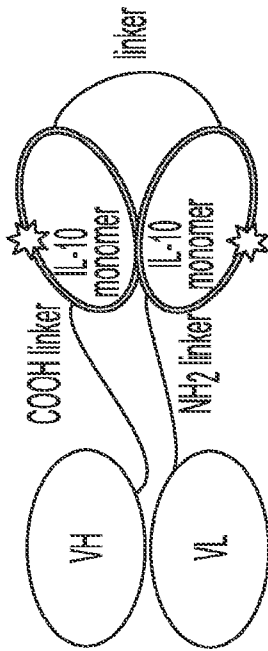


Fig. 5D

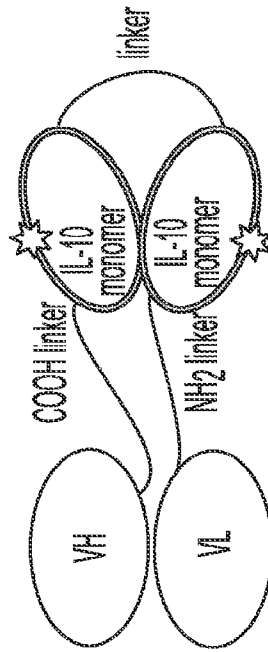


Fig. 5E

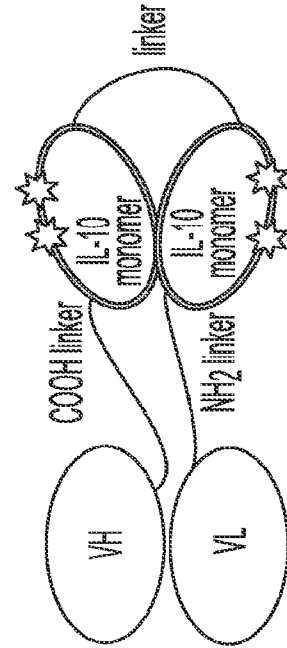


Fig. 5F

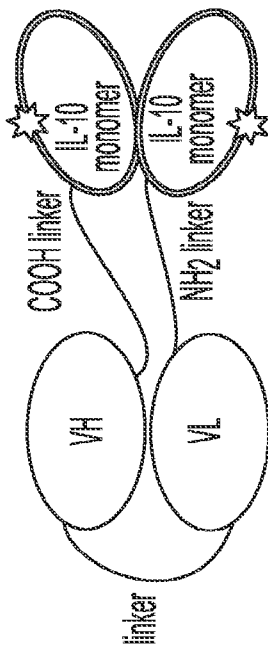


Fig. 5A

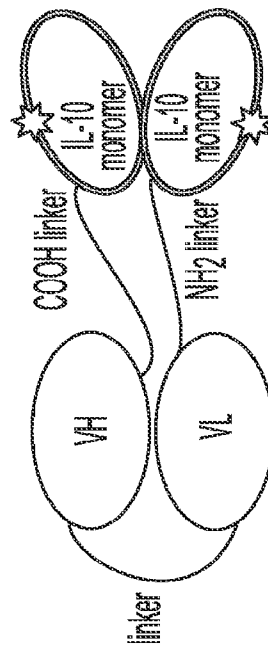


Fig. 5B

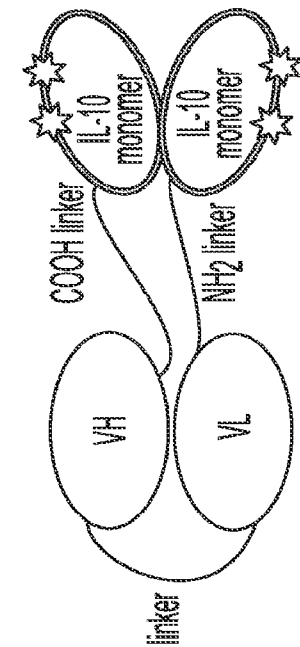


Fig. 5C

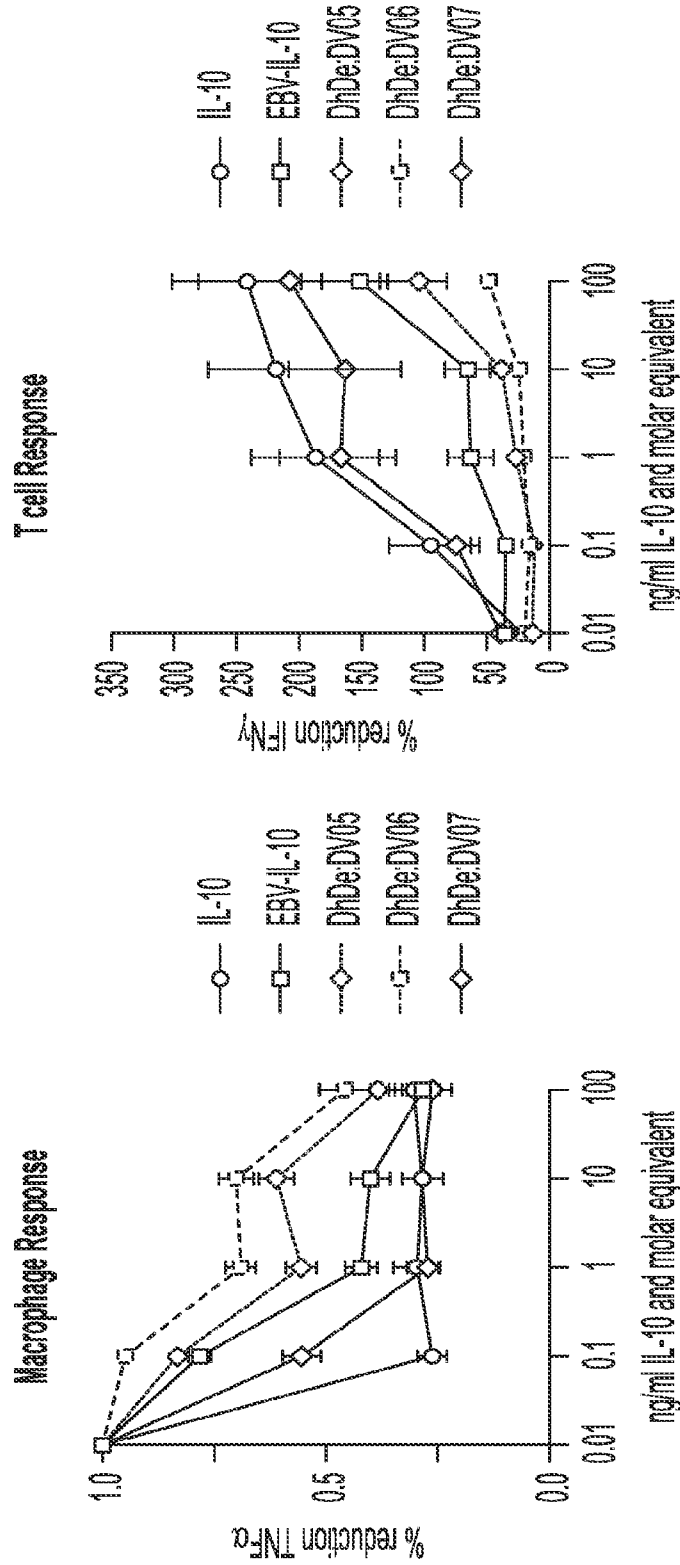


Fig. 6B

Fig. 6A

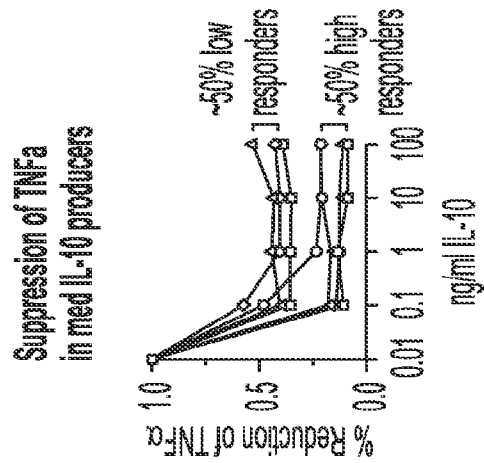


Fig. 7D

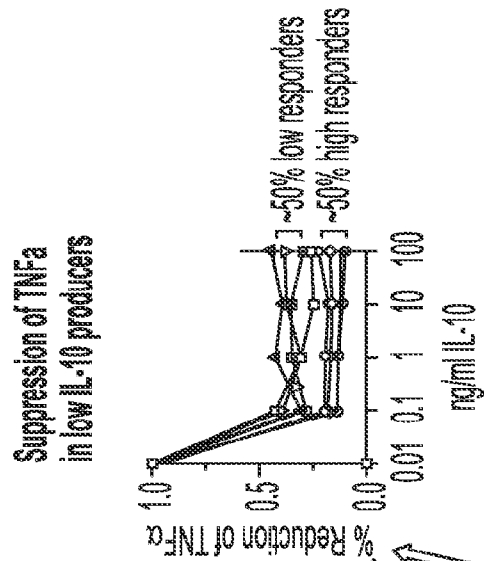


Fig. 7C

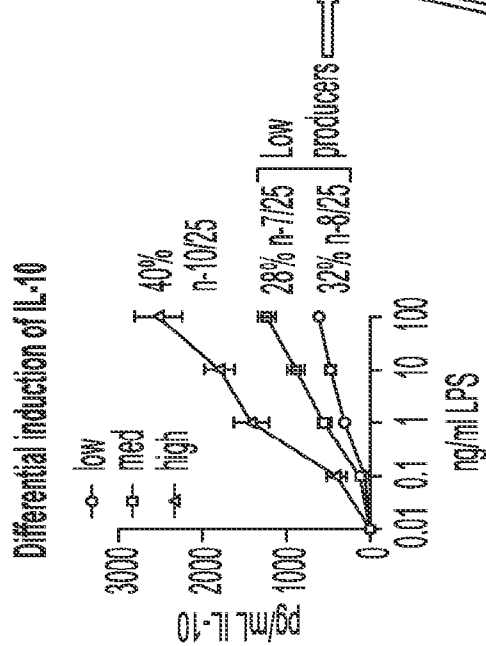


Fig. 7A

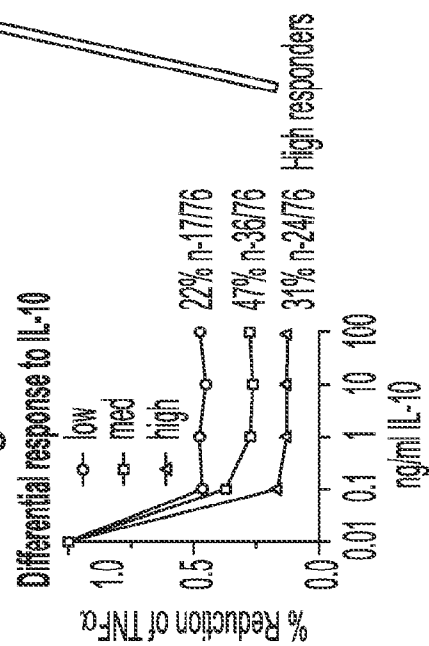


Fig. 7B

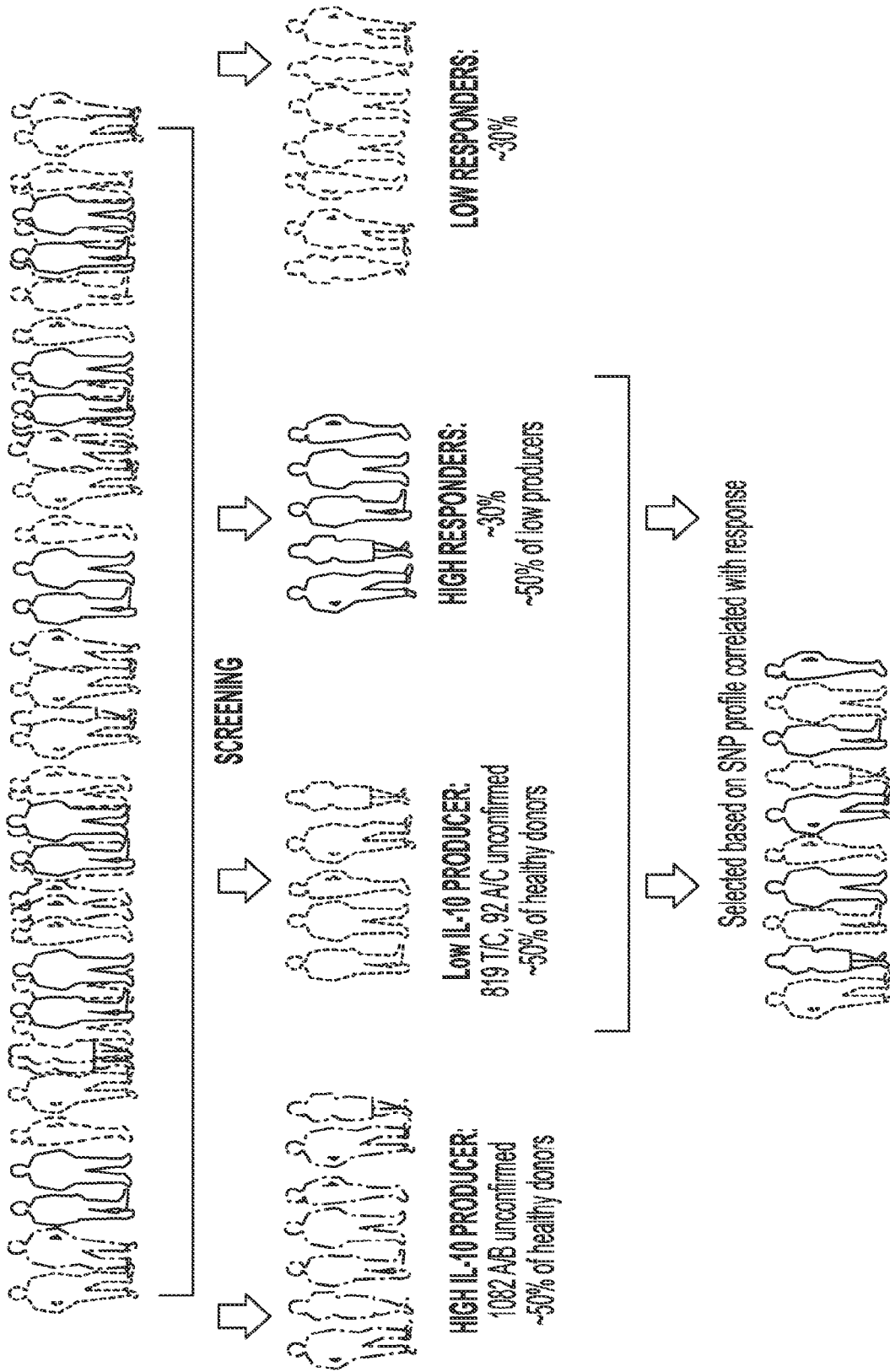


Fig. 8

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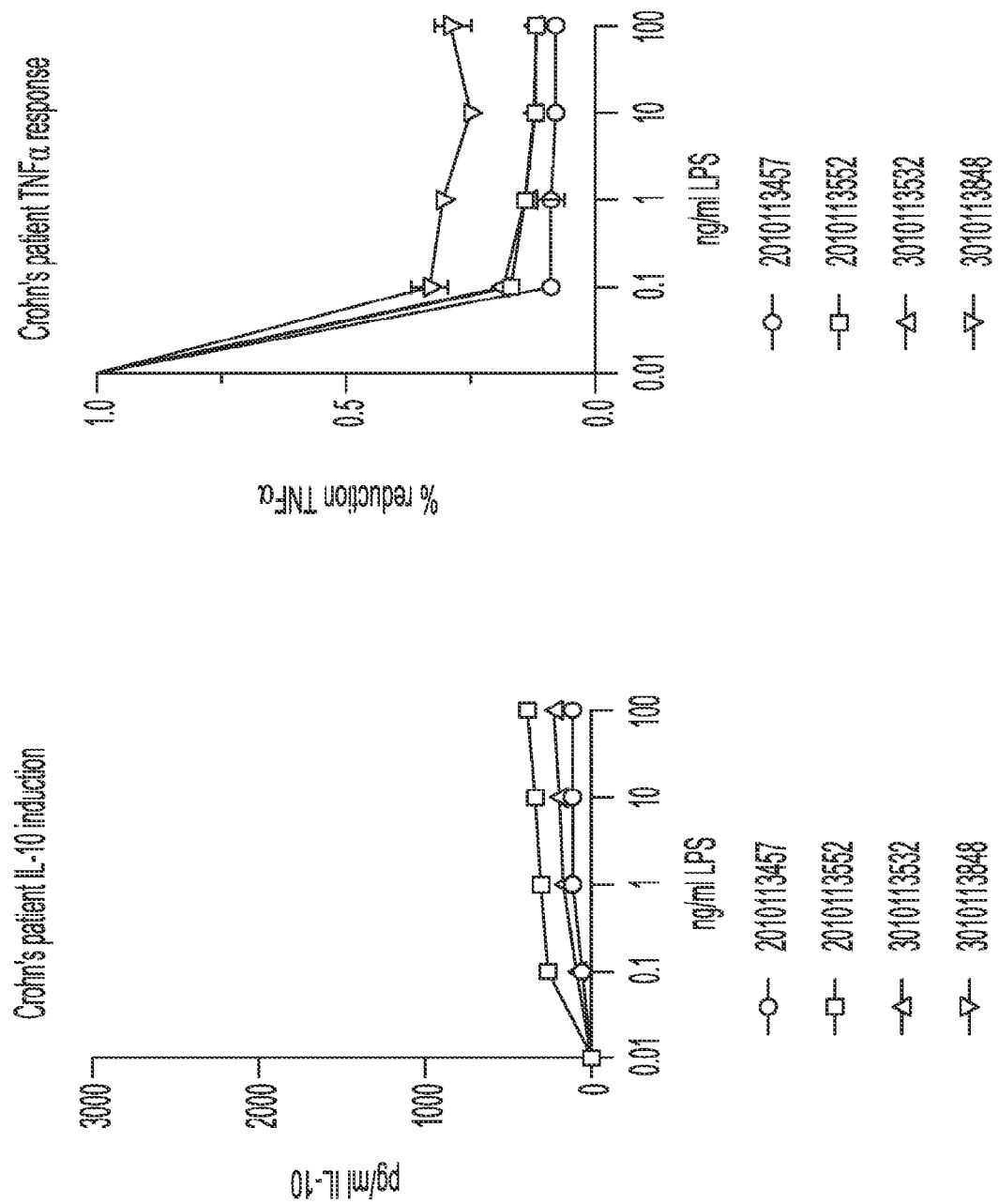


Fig. 9

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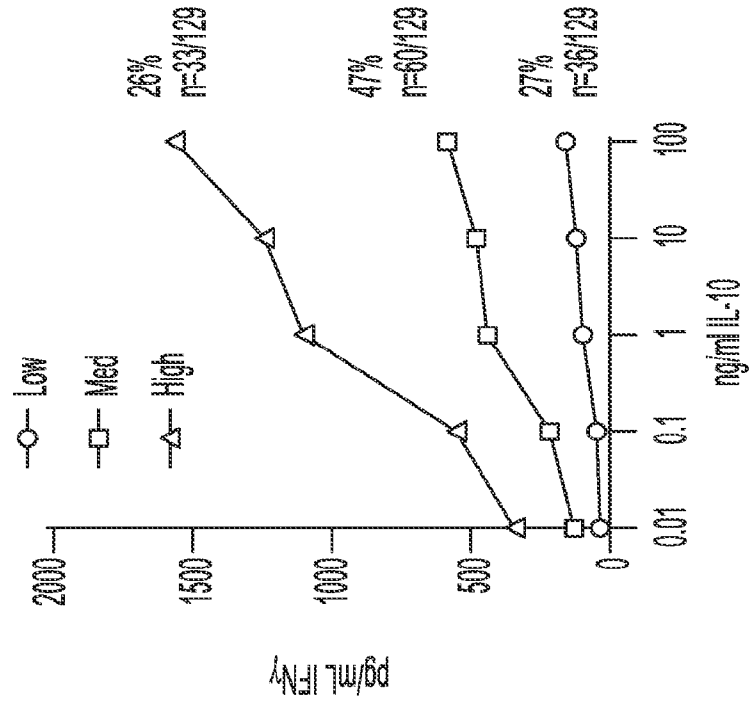


Fig. 10B

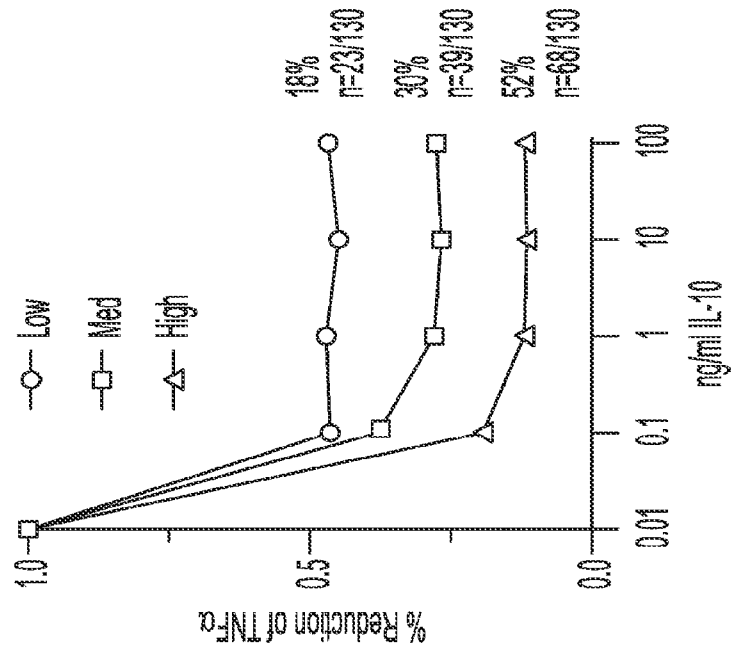


Fig. 10A

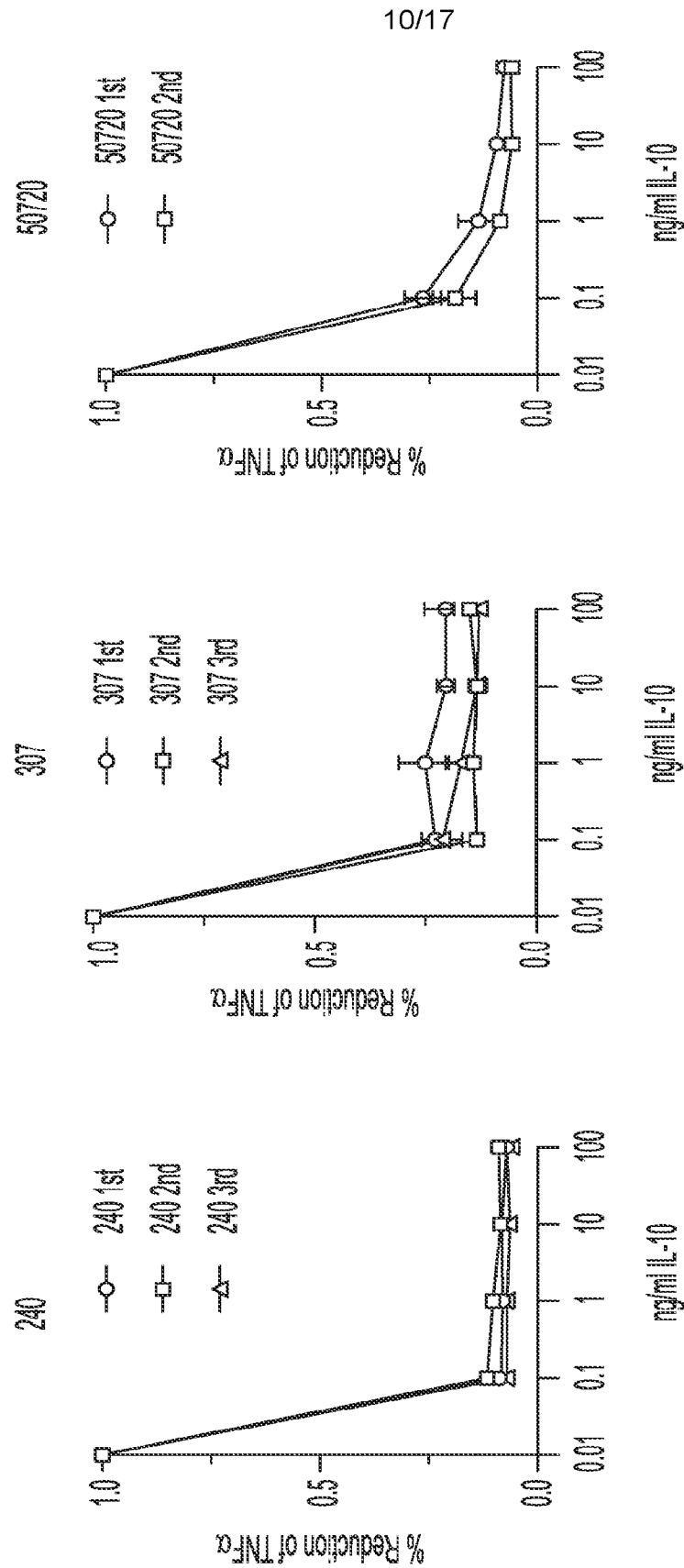


Fig. 11

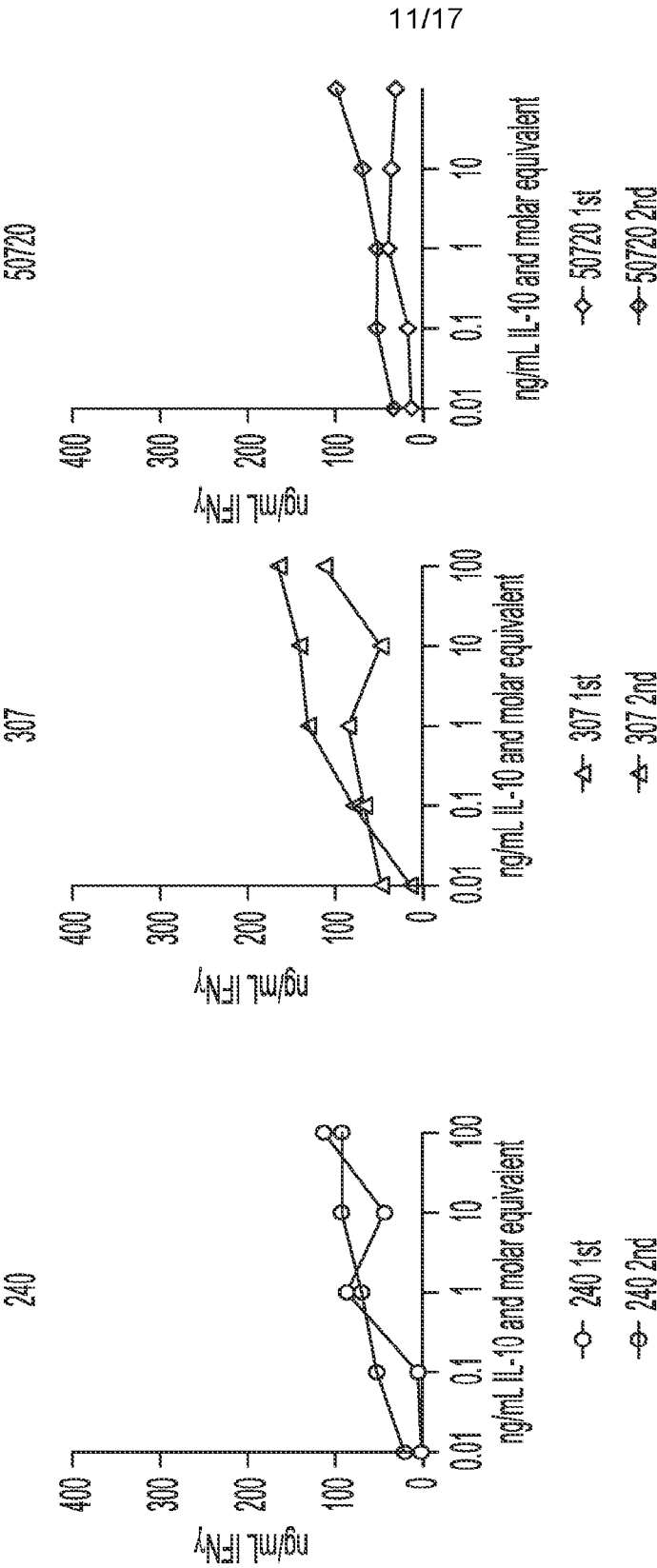


Fig. 12

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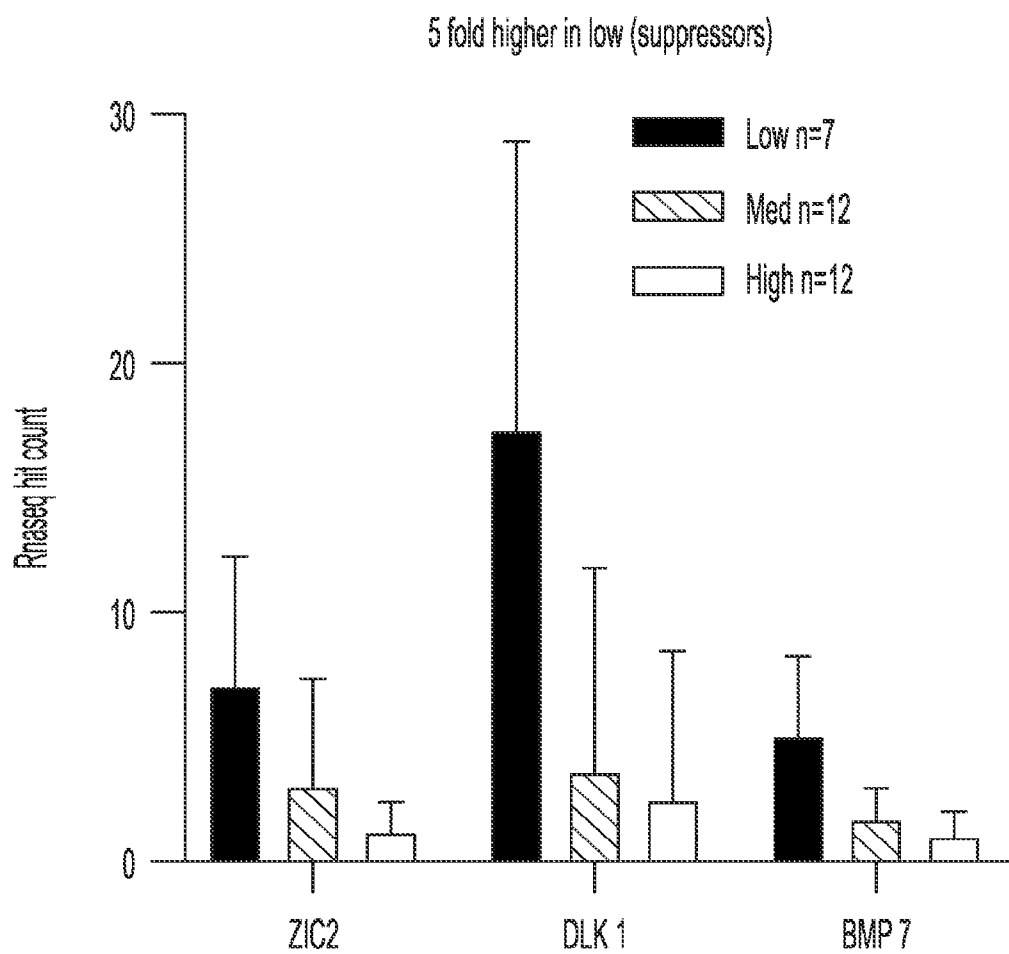


Fig. 13

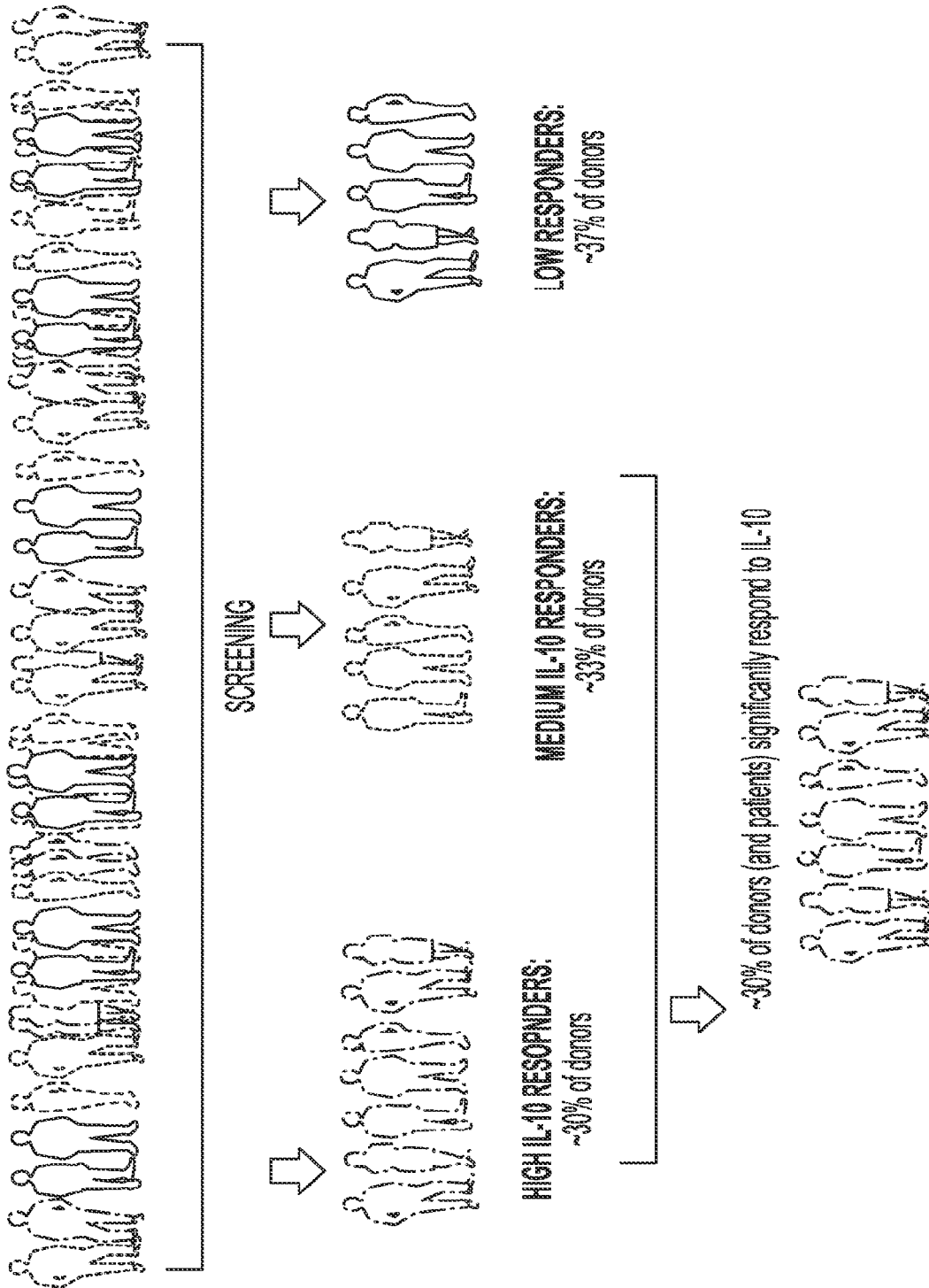


Fig. 14

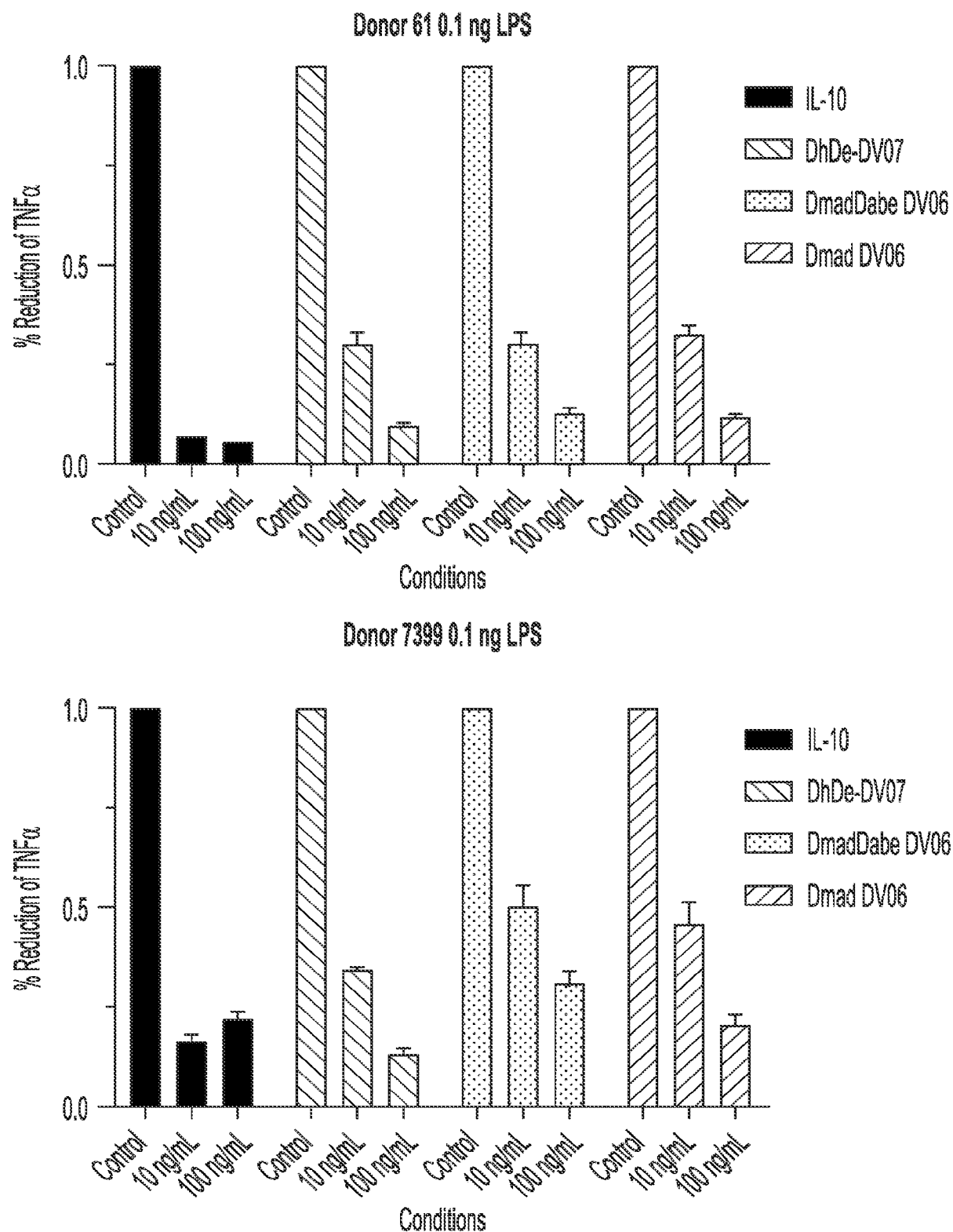


Fig. 15

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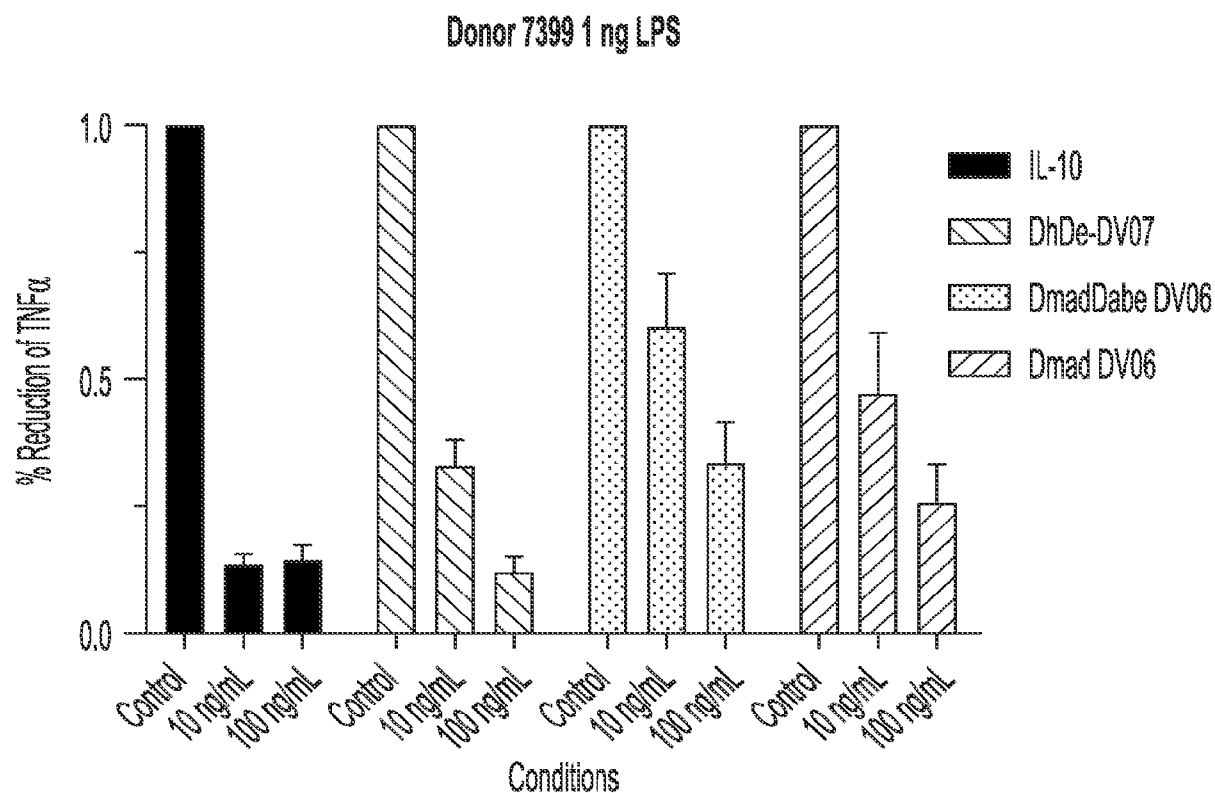
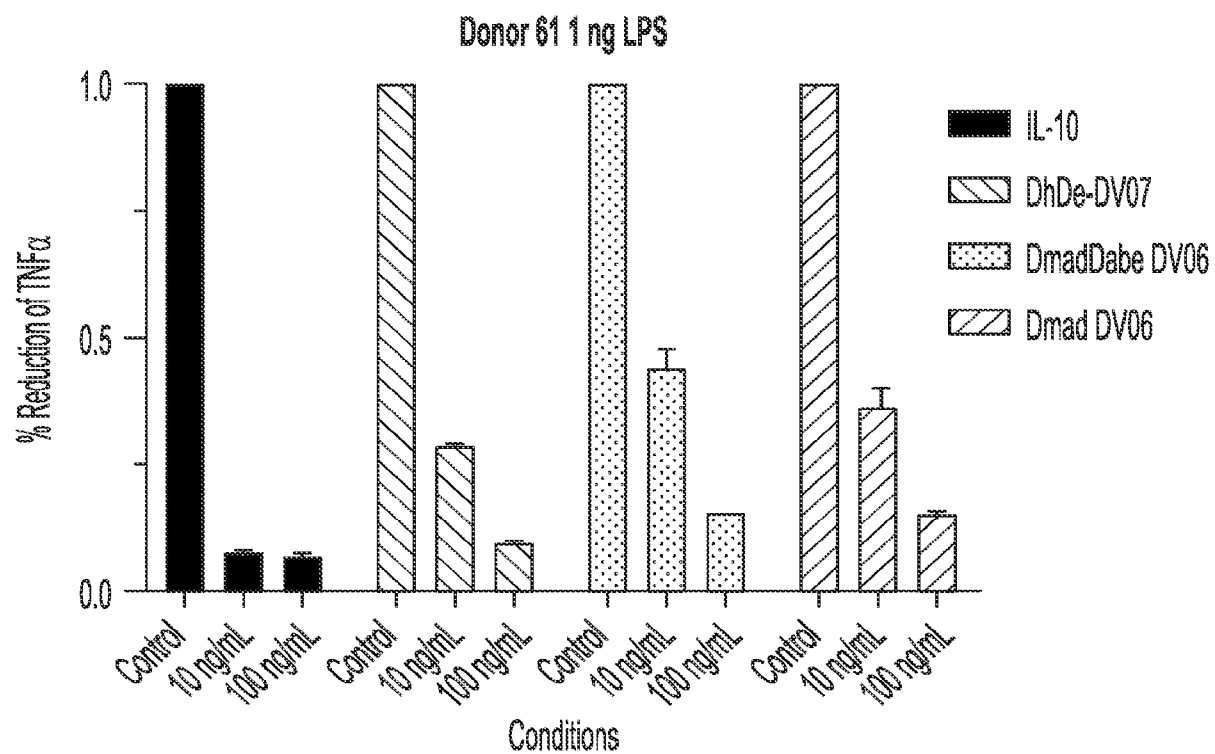


Fig. 15
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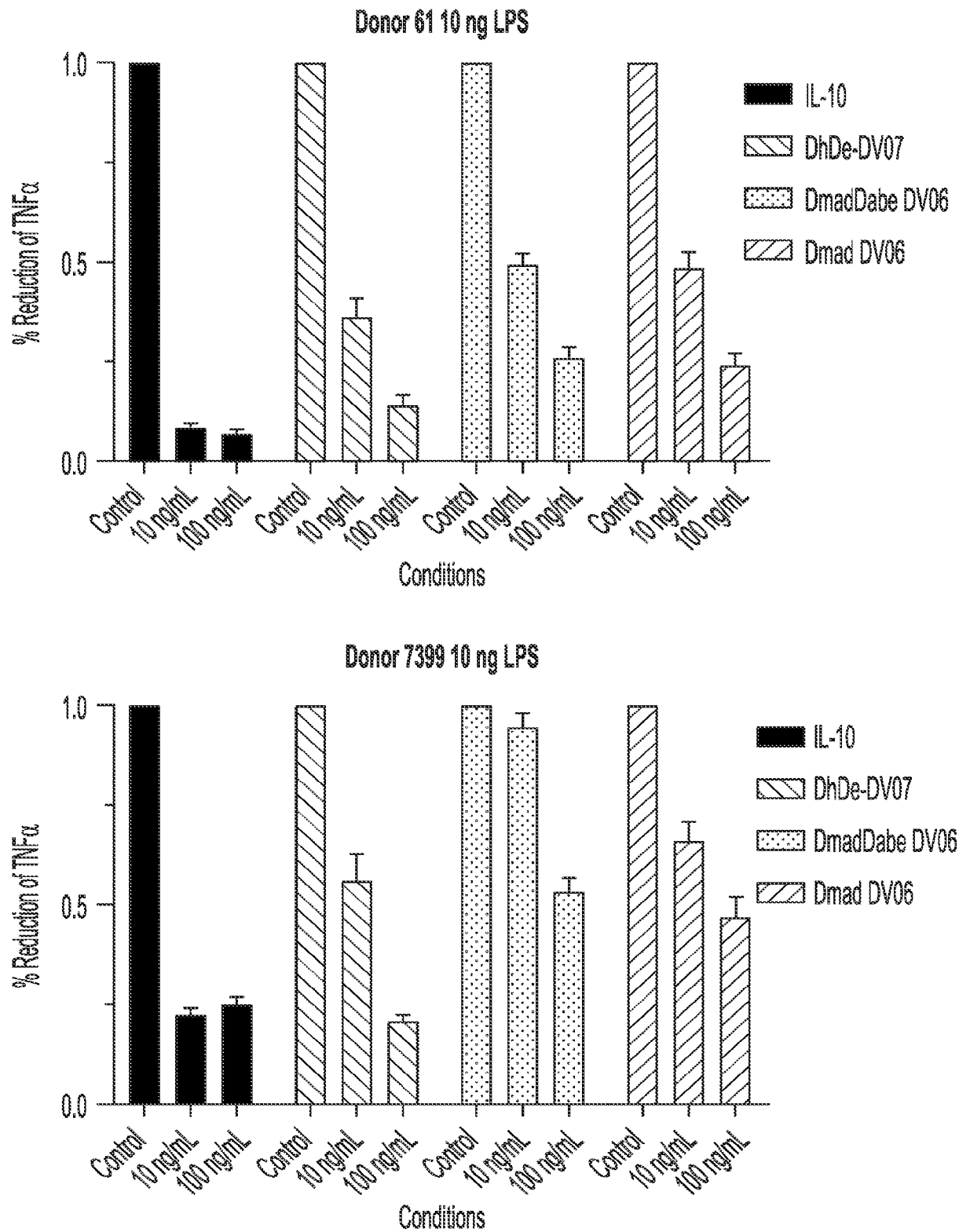


Fig. 15
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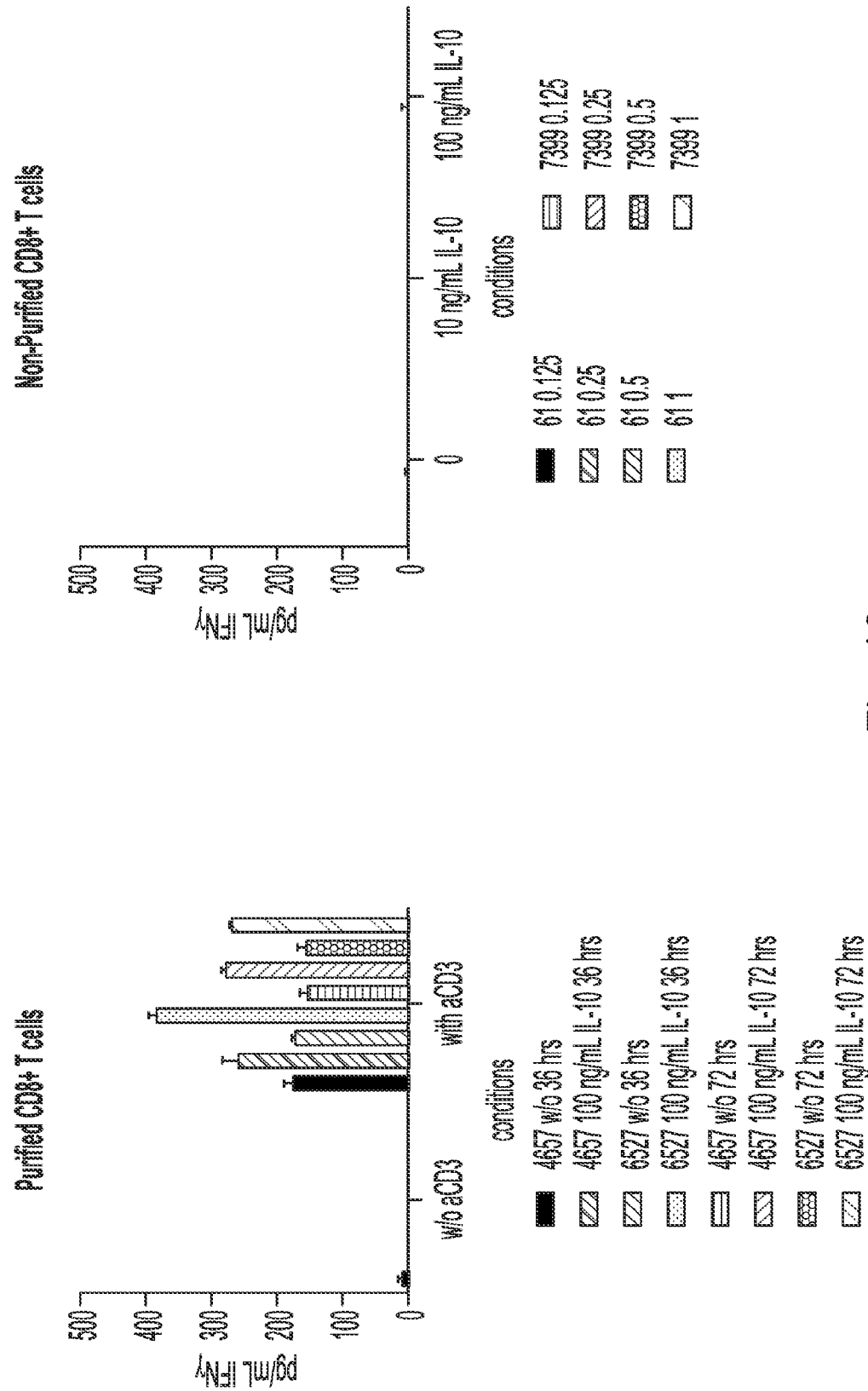


Fig. 16