

# HEALTH

PANEL

[EN] PERI AND POST MENOPAUSE TRANSITION

## Patient data

|                  |            |
|------------------|------------|
| Name             | Sample     |
| Age              |            |
| Gender           | F          |
| Test date        |            |
| Report date      | 12/09/2025 |
| Prescriber       |            |
| Health insurance |            |

### What does testing make possible?

Based on personalized and comparative gene studies, Precysia looks for genetic alterations among the billions of information a patient's DNA carries, and in-depth information on each individual's predispositions to developing disease, as well as recommendations and specific information for their correction and prevention, whenever such information is available.

*Technical Manager: Dr. Eyal Cohen, MD*

## WARNING

*The values of the results of genetic tests are not diagnostic, but show trends that are influenced by physiological, pathological conditions, use of medications and other personal conditions of the examinee.*

*Only your clinician is able to correctly interpret these results and to prescribe the most appropriate treatment for you, and the company is not responsible for any treatment based on the results.*

*If necessary, our science team is available to discuss the results with the attending clinician upon request.*

---

## The genetic test

The genetic examination is the most current and advanced technological leap in the health area, mainly for the clinical area because DNA is the true **Instruction Manual** of the individual.

In DNA, all individual needs, susceptibilities and psycho-behavioral, structural, functional and reaction characteristics that an individual has and will have throughout his life are determined with high precision.

The genetic examination is within the modern disruptive concept of Genetic Identity where the individual is able to have all the precise and personalized information necessary to, from them, know what to do to achieve more Health, Vitality, Beauty and Longevity.

The current level of our technology, allows the high level of precision and reliability of our tests in the fundamental aspects for a genetic test.

In the WGS (total genome sequencing) extraction that provides 80 million SNPs (polymorphisms) - in the market in general we have up to 800 SNPs - and in the reading and analysis of the extraction done by our own AI system (Artificial Intelligence), through a complex algorithm, which considers, among other factors, the number, presence and magnitude of the SNPs related to the analyzed condition.

## How to interpret the exam:

We adopted a color bar divided into 5 levels of magnitude.

Each genetic condition (whether characteristic, need, benefit or susceptibility) ranges from a low to a very high magnitude resulting from the exam.

These result levels are calculated using a complex algorithm, developed internally, which considers, among other factors, the quantity, presence and magnitude of the SNPs related to the condition.







The result will then appear as follows:

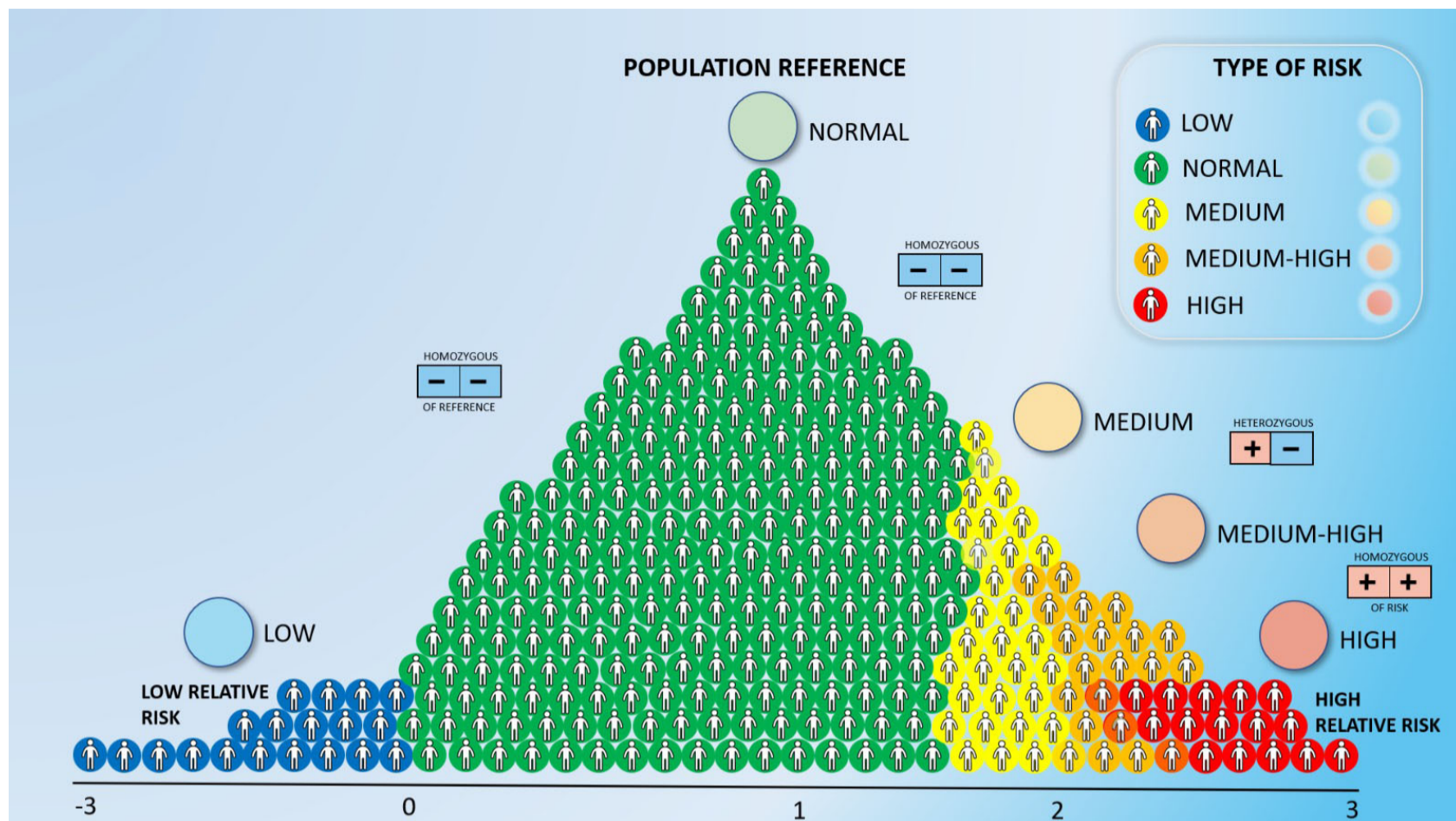
### FIRST PART

The first part interprets the magnitudes of each condition, using an algorithm that considers the following aspects:

- Presence or Absence of Polymorphism
- Amount of Polymorphisms present for the condition
- Magnitude of each Polymorphism
- Validation of the Scientific Base

Due to the decimal places of the magnitudes of the results that must be strictly taken into account in the results, we present 5 divisions, which should be interpreted as follows:

-  indicates that the result shown is LOW
-  indicates that the result shown is NORMAL
-  indicates that the result shown is MEDIUM-NORMAL
-  indicates that the result shown is MEDIUM-HIGH
-  indicates that the result shown is HIGH
-  indicates that it was not possible to calculate a result

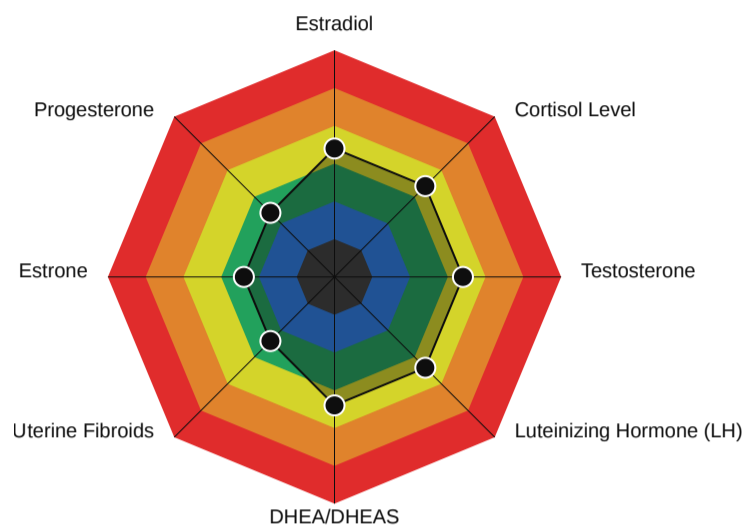


Important notes about the results:

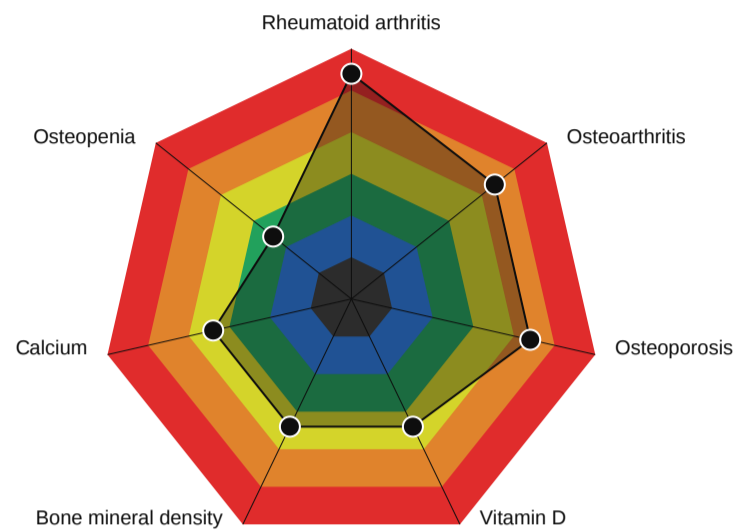
- LOW refers to a predisposition to lack or low susceptibility.
- NORMAL often refers to the majority of the population, in which the incidence of Needs or Susceptibilities is considered normal.
- MEDIUM-NORMAL refers to medium susceptibility. Usually heterozygous at-risk individuals.
- MEDIUM-HIGH refers to high susceptibility. Usually individuals with homozygous or heterozygous alleles at risk.
- HIGH refers to high susceptibility. Usually individuals with homozygous risk alleles.
- If there is no filled sphere in the result, it indicates that the polymorphism (or polymorphisms) related to the specific condition were not detected, or that, as of the date of the report, there are no solid scientific evidences that justify a result.

## MOST RELEVANT CONDITIONS BY CATEGORY

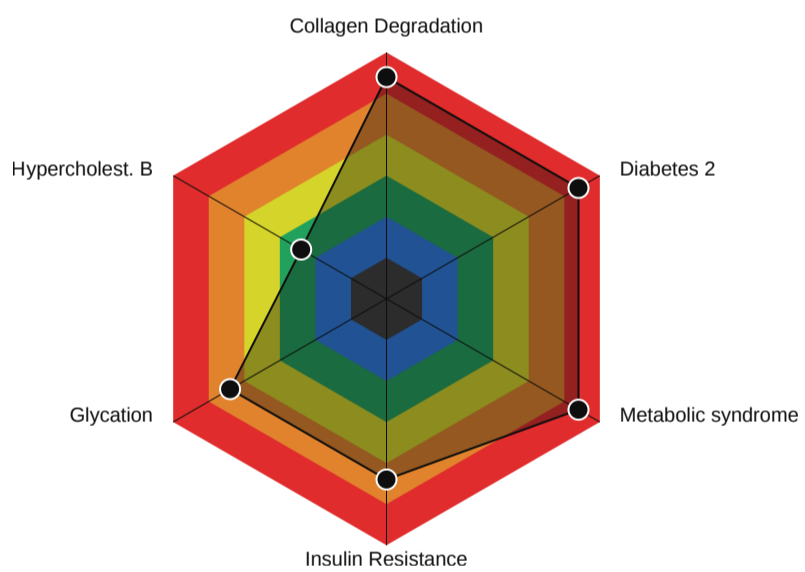
### HORMONES



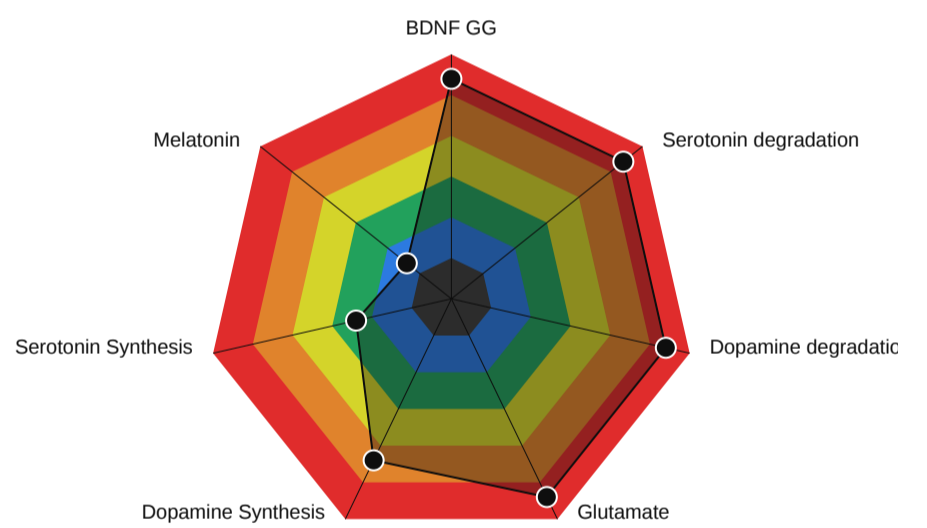
### BONE HEALTH



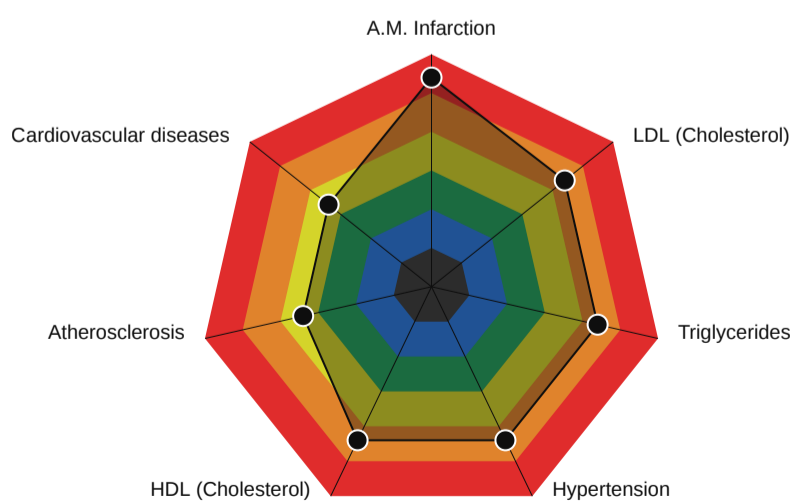
### METABOLIC HEALTH



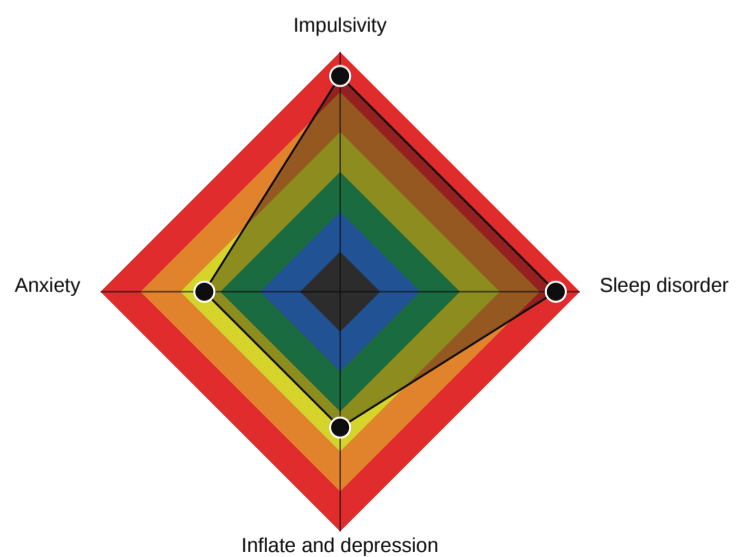
### NEUROTRANSMITTER



### CVD

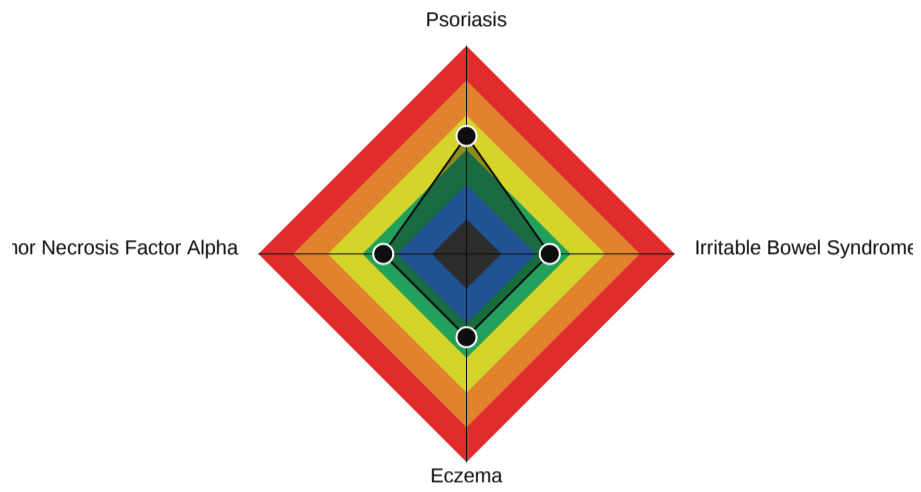


### MOOD DISORDERS/NEUROLOGY

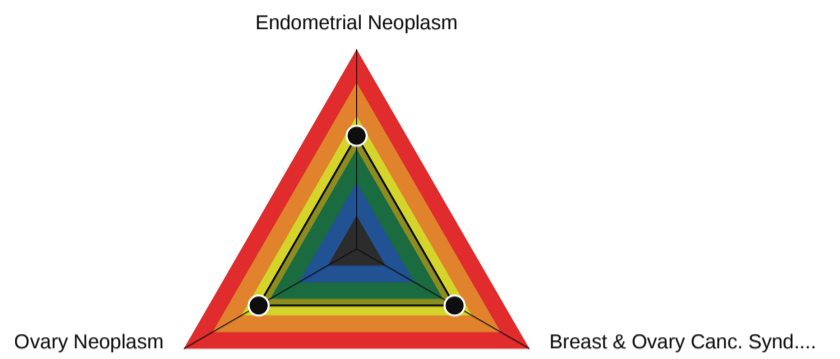


## MOST RELEVANT CONDITIONS BY CATEGORY

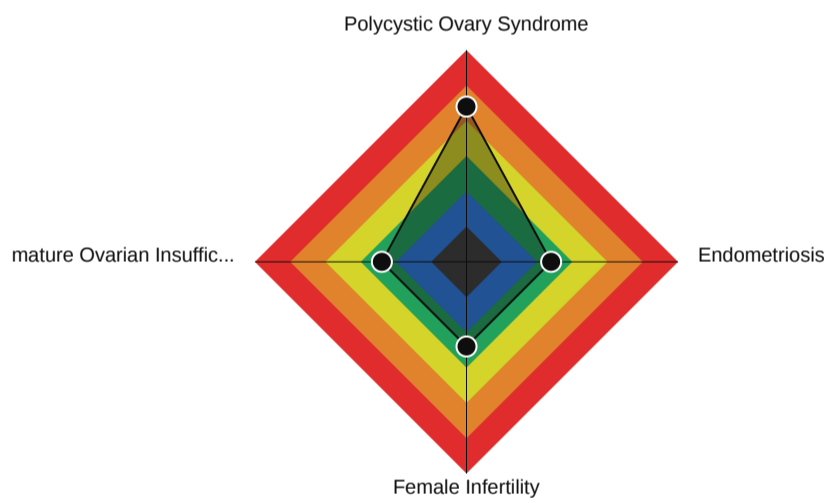
### INFLAMMATION



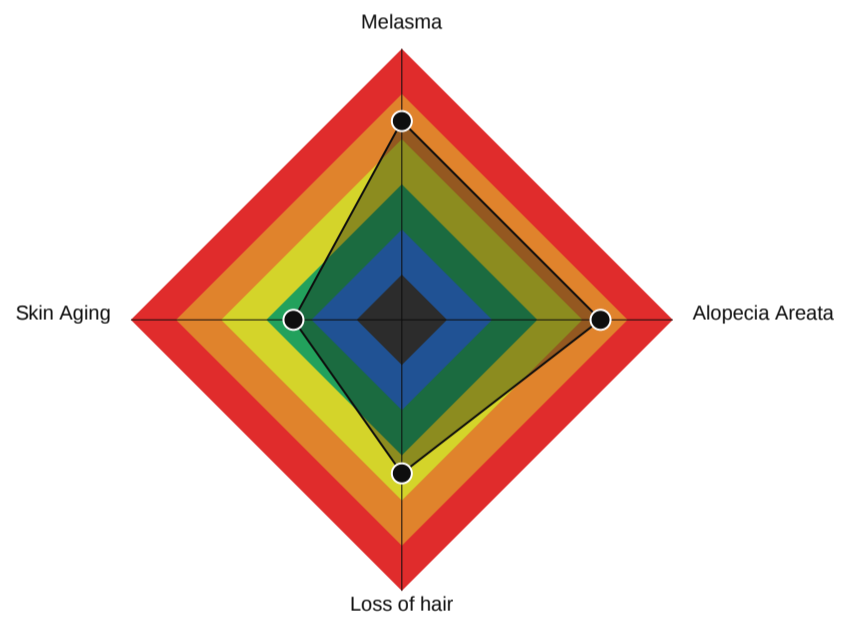
### CANCER



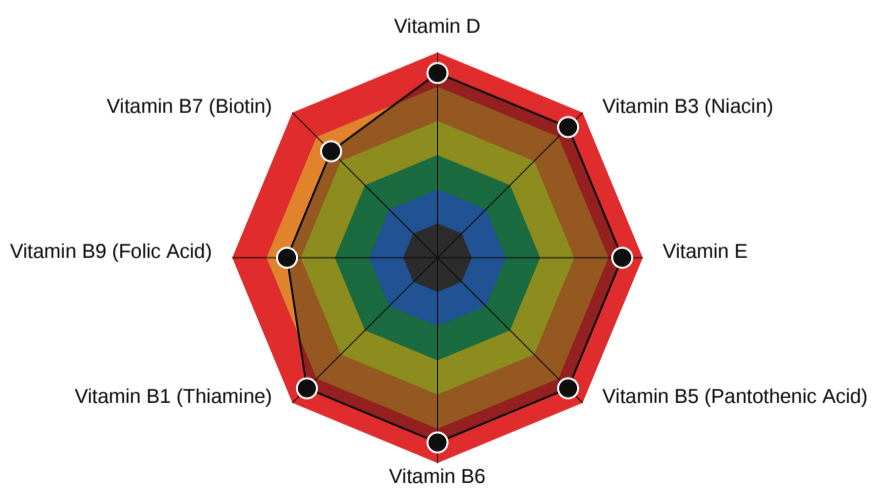
### HORMONAL CONDITIONS



### SKIN AND HAIR



### NUTRITIONAL REQUIREMENTS



## SUMMARY OF RESULTS

### 1. Hormones

|                          |   |     |   |     |   |     |          |
|--------------------------|---|-----|---|-----|---|-----|----------|
| Estrone                  | 4 | - - | 2 | + - | 0 | + + | ● NORMAL |
| Estradiol                | 1 | - - | 0 | + - | 1 | + + | ● MEDIUM |
| Testosterone             | 6 | - - | 3 | + - | 1 | + + | ● MEDIUM |
| Progesterone             | 4 | - - | 0 | + - | 0 | + + | ● NORMAL |
| Oxytocin                 | 8 | - - | 0 | + - | 0 | + + | ● LOW    |
| Cortisol Level           | 8 | - - | 2 | + - | 1 | + + | ● MEDIUM |
| Luteinizing Hormone (LH) | 3 | - - | 0 | + - | 1 | + + | ● MEDIUM |
| DHEA/DHEAS               | 7 | - - | 1 | + - | 1 | + + | ● MEDIUM |
| Uterine Fibroids         | 2 | - - | 2 | + - | 0 | + + | ● NORMAL |

### 2. Bone Health

|                       |    |     |    |     |   |     |               |
|-----------------------|----|-----|----|-----|---|-----|---------------|
| Osteoporosis          | 16 | - - | 9  | + - | 1 | + + | ● MEDIUM-HIGH |
| Bone mineral density  | 18 | - - | 5  | + - | 1 | + + | ● MEDIUM      |
| Vitamin D requirement | 1  | - - | 0  | + - | 1 | + + | ● MEDIUM      |
| Calcium               | 1  | - - | 1  | + - | 0 | + + | ● MEDIUM      |
| Osteopenia            | 2  | - - | 0  | + - | 0 | + + | ● NORMAL      |
| Osteoarthritis        | 18 | - - | 3  | + - | 2 | + + | ● MEDIUM-HIGH |
| Rheumatoid arthritis  | 41 | - - | 15 | + - | 5 | + + | ● HIGH        |

### 3. Metabolic Health

|                               |     |     |   |     |    |     |               |
|-------------------------------|-----|-----|---|-----|----|-----|---------------|
| Collagen Degradation          | 674 | - - | 8 | + - | 10 | + + | ● HIGH        |
| Insulin Resistance            | 5   | - - | 5 | + - | 2  | + + | ● MEDIUM-HIGH |
| Type 2 diabetes               | 58  | - - | 8 | + - | 3  | + + | ● HIGH        |
| Glycation                     | 5   | - - | 1 | + - | 0  | + + | ● MEDIUM-HIGH |
| Metabolic syndrome            | 11  | - - | 1 | + - | 2  | + + | ● HIGH        |
| Hypercholesterolemia (Type B) | 7   | - - | 0 | + - | 0  | + + | ● NORMAL      |

### 4. Neurotransmitter

|                    |    |     |   |     |   |     |               |
|--------------------|----|-----|---|-----|---|-----|---------------|
| Dopamine Synthesis | 52 | - - | 6 | + - | 1 | + + | ● MEDIUM-HIGH |
|--------------------|----|-----|---|-----|---|-----|---------------|

|                       |    |     |        |       |          |
|-----------------------|----|-----|--------|-------|----------|
| Serotonin Synthesis   | 76 | - - | 7 + -  | 0 + + | ● NORMAL |
| Dopamine degradation  | 38 | - - | 12 + - | 3 + + | ● HIGH   |
| Serotonin degradation | 18 | - - | 0 + -  | 2 + + | ● HIGH   |
| Melatonin             | 3  | - - | 2 + -  | 0 + + | ● LOW    |
| BDNF GG               | 0  | - - | 0 + -  | 1 + + | ● HIGH   |
| Glutamate             | 0  | - - | 0 + -  | 1 + + | ● HIGH   |

## 5. CVD

|                             |    |     |        |       |               |
|-----------------------------|----|-----|--------|-------|---------------|
| Hypertension                | 28 | - - | 8 + -  | 2 + + | ● MEDIUM-HIGH |
| LDL (Cholesterol)           | 23 | - - | 7 + -  | 3 + + | ● MEDIUM-HIGH |
| HDL (Cholesterol)           | 28 | - - | 9 + -  | 3 + + | ● MEDIUM-HIGH |
| Triglycerides               | 26 | - - | 12 + - | 2 + + | ● MEDIUM-HIGH |
| Atherosclerosis             | 7  | - - | 2 + -  | 1 + + | ● MEDIUM      |
| Acute myocardial infarction | 26 | - - | 2 + -  | 4 + + | ● HIGH        |
| Cardiovascular diseases     | 4  | - - | 1 + -  | 1 + + | ● MEDIUM      |

## 6. Mood Disorders/Neurology

|                             |    |     |       |       |          |
|-----------------------------|----|-----|-------|-------|----------|
| Anxiety                     | 6  | - - | 3 + - | 2 + + | ● MEDIUM |
| Impulsivity                 | 3  | - - | 5 + - | 1 + + | ● HIGH   |
| Inflammation and Depression | 5  | - - | 4 + - | 0 + + | ● MEDIUM |
| Sleep disorder              | 11 | - - | 2 + - | 1 + + | ● HIGH   |

## 7. Inflammation

|                             |    |     |       |       |             |
|-----------------------------|----|-----|-------|-------|-------------|
| Arthritis                   | 1  | - - | 0 + - | 0 + + | ● UNDEFINED |
| Eczema                      | 18 | - - | 1 + - | 0 + + | ● NORMAL    |
| Rosacea                     | 1  | - - | 0 + - | 0 + + | ● UNDEFINED |
| Psoriasis                   | 42 | - - | 4 + - | 3 + + | ● MEDIUM    |
| Tumor Necrosis Factor Alpha | 1  | - - | 0 + - | 0 + + | ● NORMAL    |
| Irritable Bowel Syndrome    | 5  | - - | 2 + - | 0 + + | ● NORMAL    |

## 8. Cancer

|   |    |     |       |       |          |
|---|----|-----|-------|-------|----------|
| Endometrial Neoplasm                        | 9  | - - | 4 + - | 0 + + | ● MEDIUM |
| Hereditary Breast and Ovary Cancer Syndrome | 16 | - - | 2 + - | 0 + + | ● MEDIUM |

Ovary Neoplasm 40 4 0 MEDIUM

## 9. Hormonal Conditions

PCOS 12 1 1 MEDIUM-HIGH

Female Infertility 2 1 0 NORMAL

Endometriosis 18 4 0 NORMAL

Premature Ovarian Insufficiency 0 1 0 NORMAL

## 10. Thyroid Health

Hypothyroidism 28 6 0 MEDIUM

Hyperthyroidism 4 0 0 LOW

## 11. Skin and Hair

Loss of hair 14 3 0 MEDIUM

Alopecia Areata 1 3 1 MEDIUM-HIGH

Melasma 4 2 1 MEDIUM-HIGH

Skin Aging 9 3 0 NORMAL

## 12. Urinary and Sexual Health

Urinary incontinence 2 0 0 UNDEFINED

Pelvic Organ Prolapse 1 1 0 MEDIUM-HIGH

## 13. Nutritional Requirements

Absorption of Vitamin B12 1 3 0 MEDIUM

Vitamin B5 (Pantothenic Acid) 75 19 6 HIGH

Vitamin B6 114 18 11 HIGH

Vitamin B7 (Biotin) 94 11 3 MEDIUM-HIGH

Vitamin B9 (Folic Acid) 86 12 11 MEDIUM-HIGH

Vitamin C 123 18 4 MEDIUM

Vitamin D 420 41 22 HIGH

Vitamin E 324 31 16 HIGH

Vitamin A 4 0 0 NORMAL

Vitamin B3 (Niacin) 3 0 4 HIGH

Vitamin B1 (Thiamine) 11 0 1 HIGH

## 14. Breast Health

Breast neoplasm 106 8 2 MEDIUM-HIGH

## 15. Mental Health

Depression 4 4 0 MEDIUM

## 16. Digestive Health

Celiac disease 16 3 2 HIGH

## 17. Weight and Nutrition

Weight gain with exercise 0 0 0 UNDEFINED

## 18. Autoimmune Diseases

Lupus 25 12 1 MEDIUM-HIGH

## 19. Eye Diseases

Cataract 15 0 0 NORMAL

## 20. Neurodegenerative Diseases

Alzheimer's disease 121 11 2 MEDIUM-HIGH

## 21. Respiratory Diseases

Chronic obstructive pulmonary disease 18 2 0 NORMAL

## 22. Gastrointestinal Diseases

Gastroesophageal Reflux Disease 0 1 0 MEDIUM-HIGH

# 1. Hormones

## Estrone



Estrone is an estrogen secreted by the ovary. It is produced from androstenedione. Estrone, which is the second predominant estrogen in circulation in women and predominant after menopause. After menopause, estrone continues to be synthesized through the conversion of the adrenal steroid, mainly in fatty tissues and muscle cells. The more fat, the more estrone is produced. For example, in women after menopause, if estrone levels are higher than estradiol or estriol levels, there may be an increased cardiovascular risk and even of developing some types of cancer.

### Genes

CYP19A1

## Estradiol



Estradiol is the most important estrogen for a woman. It is a hormone produced by the ovaries that acts on reproductive function, skin, blood vessels, bones and brain. According to studies, estradiol plays more than 300 functions in the female body. In reproduction, estradiol stimulates the release of eggs from the ovarian follicles. It also acts on the fallopian tubes, stimulating muscle contractions that take the fertilized egg to the uterus. Also in the reproductive function, estradiol promotes the reaction of the uterus to the hormone progesterone, whose function is to prepare the organ for the arrival of the fertilized egg, producing a thicker endometrium. Another important function of estradiol is to drive the development of secondary sexual characteristics, such as breast growth and body changes, affecting bones, joints and fat distribution. Estradiol is also responsible for maintaining skin elasticity, blood vessel dilation and bone health. In the brain, estradiol plays a significant role in protecting brain functions such as memory, mood and mental well-being. Estradiol levels change during a woman's menstrual cycle. It starts to increase in the middle of the follicular phase (when some ovarian follicles are stimulated) and peaks in the middle of the cycle. Until it starts to fall, reaching a second peak in the luteal phase (a phase in which the corpus luteum, the structure that remains in the ovary after the egg is released, produces progesterone). Orange or red result indicates higher estradiol.

### Genes

ESR2, SHBG

# 1. Hormones

## Testosterone



MEDIUM

Testosterone is the main male sex hormone and an anabolic steroid. In humans and male animals, testosterone plays a key role in the development of male reproductive tissues such as the testes and prostate, as well as the promotion of secondary sexual characteristics such as increased muscle mass, bone growth and maturation, and growth of body hair. In addition, testosterone is involved in health, well-being and the prevention of osteoporosis. Insufficient testosterone levels in men can lead to abnormalities, including frailty and bone loss. Its decrease can lead to fatigue, memory loss, hair loss, muscular dystrophy, irritability, depression and obesity, in addition to increasing the susceptibility to diabetes, osteoporosis and cardiovascular disease.

### Genes

CYP17A1, CYP19A1, FAM9B, FSHR, HSD17B2, HSD17B3, PDE7B, SHBG

## Progesterone



NORMAL

In men, high levels of progesterone increase estrogen levels, which can result in symptoms such as depression, fatigue, and the development of heart disease. For women, high progesterone is associated with symptoms such as anxiety, bloating, depression, reduced sex drive, and/or weight fluctuations. In women, progesterone is produced by the corpus luteum, under the stimulus of HGC (chorionic gonadotropin) 15 days after the start of menstruation, after ovulation and is released in the second phase of the menstrual cycle, preparing the uterus and the woman's body for a possible pregnancy, as it is a hormone directly related to reproduction. Progesterone, unlike estrogen, has no activity on the determination of female sexual characteristics. The activity of progesterone is to prepare the uterus for a possible pregnancy, receiving the fertilized egg and stimulating the production of milk. Progesterone was the basis for the development of oral contraceptives, and, combined with estrogens, promotes the inhibition of ovulation, preventing follicular maturity, as it inhibits the secretion of gonadotropins by the pituitary. It is fundamental in the processes of menstruation, fertilization, transport and implantation of the fertilized egg, maintenance of pregnancy and lactation. Higher levels of circulating progesterone were associated with a modestly increased risk of breast cancer. The inclusion of progesterone during hormone therapy intervention leads to a persistently increased risk of breast cancer after the intervention and leads to the development of hormone receptor negative tumors in addition to those that are hormone receptor positive. Result in blue indicates lower levels. Result in green indicates normal levels. Yellow result indicates average levels. Result in orange or red indicates high levels.

### Genes

INTERGENIC, PGR, SLC22A10, ZKSCAN5

# 1. Hormones

## Oxytocin

 LOW

Oxytocin is a peptide hormone and neuropeptide normally produced in the hypothalamus and released by the posterior pituitary. It plays a role in social bonding, reproduction, childbirth, and the period after childbirth.

### Genes

CD38, OXTR

## Cortisol Level

 MEDIUM

Research shows a clear relationship between obesity, increased cortisol (stress hormone) and depression. The incidence of depression is quite high, but it often manifests itself in an unconventional way, making diagnosis difficult, especially in women. It can appear in the form of binge eating or obesity and not through the common, which is loss of appetite and weight loss. Or through insomnia and fibromyalgia (with pain throughout the body), or migraine, among other examples. You still don't know which came first. Whether depression elevates cortisol or cortisol is elevated in depression. The hypothalamus, the pituitary gland (the body's mother gland), both located "in the brain", are responsible for the production of cortisol through the adrenal gland. In the face of everyday stress situations, these glands constitute the hypothalamic-pituitary-adrenal axis, responsible for a healthy response to stress or for the formation of the unhealthy "cascade" of stress-depression-obesity. Although cortisol is a beneficial hormone, it can be produced beyond conventional needs causing us to get sick. Thus, excess cortisol would routinely be able to produce negative effects similar to the side effects of corticosteroid medications, those routinely used for arthritis and asthma, causing what we call Cushing's Syndrome, in which full moon faces predominate " (chubby and rounded, associated with abdominal fat). For the treatment of this hormonal change, specific antidepressants (related to the neurotransmitter serotonin) seem to positively increase the expression (action) of cortisol in the brain, which would then be beneficial, as it would reduce the excitation of this axis and also the production of cortisol by the supra gland -renal relieving cardiac risk.

### Genes

CRHR1, DGKH, FKBP5, HSD11B1, HTR2C, NR3C1, OXTR

# 1. Hormones

## Luteinizing Hormone (LH)



MEDIUM

Luteinizing hormone (LH, also known as lutropin and sometimes lutrophin) is a hormone produced by gonadotropic cells in the anterior pituitary gland. The production of LH is regulated by gonadotropin-releasing hormone (GnRH) from the hypothalamus. In females, an acute rise of LH ("LH surge") triggers ovulation and development of the corpus luteum. In males, where LH had also been called interstitial cell-stimulating hormone (ICSH), it stimulates Leydig cell production of testosterone. It acts synergistically with follicle-stimulating hormone (FSH).

### Genes

LHB, LHCGR, VDR

## DHEA/DHEAS



MEDIUM

Popularly known as the "youth hormone", dehydroepiandrosterone (DHEA) and its sulfated form, dehydroepiandrosterone sulfate (DHEA-S), are the most abundant steroids in our circulation. However, its natural production declines from the age of 20 onwards, after reaching the maximum level of concentration. This fact has been increasing the number of supporters of antiaging hormone therapy, motivating studies on the importance of this hormone and the risks of its excess in our body. Both DHEA-S and DHEA are produced mainly in the adrenal glands from cholesterol and very important hormonal precursors, especially estrogens and testosterone. In addition to acting as a substrate for other hormones, some scientific evidence indicates that DHEA also plays more roles in our bodies. Recent studies show that higher physiological levels of DHEA have been associated with greater well-being, better fitness, and greater muscle strength. There is also evidence of the effects of DHEA on bone density, as well as its anti-inflammatory and immune system effects. DHEA is the main precursor of human sex steroid synthesis and is inactivated by sulfonation into DHEAS. A previous genome-wide association study linked the single nucleotide polymorphism (SNP) rs2637125, located near the coding region of DHEA sulfotransferase, SULT2A1, to serum DHEAS concentrations.

### Genes

ARPC1A, BCL2L11, HHEX, INTERGENIC, SHBG, SULT2A1, TRIM4

# 1. Hormones

## Uterine Fibroids



Uterine fibroids are benign uterine tumors of a smooth muscle nature. Fibroids often cause abnormal uterine bleeding, pelvic pain and pressure, urinary and bowel symptoms, as well as pregnancy complications. Diagnosis is made by clinical pelvic examination, ultrasound, or imaging tests.

### Genes

BET1L, ESR1, INTERGENIC, TNRC6B

## 2. Bone Health

### Osteoporosis

 MEDIUM-HIGH

Condition in which the Skeletal System (Bones) become fragile and brittle.

**Genes**

ARHGEF3, BMP2, COL1A1, CYP19A1, ESR1, F12, FDPS, FTCN1, GAD1, IL-1B, LRP4, LRP5, NR3C1, QPCT, TNFSF11, TRPM6, VDR, WNT16

### Bone mineral density

 MEDIUM

Genetic risk of having lower bone density.

**Genes**

ADAMTS18, C7ORF76, CALCR, CCDC170, CLDN14, COL1A1, COLEC10, CPED1, CYP24A1, ESR1, IDUA, LEKR1, LOC100133286, MEF2C, QPCT, SHBG, WNT16, ZBTB40

### Vitamin D requirement

 MEDIUM

Vitamin D requirement

**Genes**

CYP2R1, GC

### Calcium

 MEDIUM

Calcium

**Genes**

GC



## 2. Bone Health

### Osteopenia



NORMAL

Osteopenia is a decrease in bone mass. This is a warning sign that your bones are getting weaker. If left untreated, osteopenia can progress to osteoporosis, which is characterized by severe loss of bone mass, with a risk of fractures.

#### Genes

CD40, COL1A1

### Osteoarthritis



MEDIUM-HIGH

A type of arthritis that occurs when the flexible tissue at the ends of the Skeletal System (bones) wears down.

#### Genes

ALDH1A2, COG5, COL6A4P1, CRTC1, CSMD1, DIO2, FRZB, FTO, GDF5, HLA-DQB1, IL-1B, IL-1RN, IL-6, INTERGENIC, LPAR1, MCF2L, PON1

### Rheumatoid arthritis



HIGH

A chronic inflammatory disease that affects many joints, including those in the hands and feet.

#### Genes

AHCY, AIRE, ANAPC4, ANXA3, C5, CDK6, CTLA4, EOMES, FCRL3, GUCY1B2, HLA-DRB1, HTR2A, HYKK, ICAM3, IL-2RA, IL-2RB, INTERGENIC, IRF5, ITGAV, KIAA1109, MMEL1, NFKBIE, NOD2, PADI4, PER2, PHF19, PHTF1, PLD4, PRL, PSMA4, PTPN2, PTPN22, SLC6A11, STAT4, TNFAIP3, TRAF1, TRAF1/C5, UBASH3A, VARS2, WDFY4, ZNF175

## 3. Metabolic Health

### Collagen Degradation



HIGH

In orange or red indicates the presence of polymorphisms associated with increased collagen degradation.

#### Genes

B4GALT7, CBS, COL11A1, COL11A2, COL17A1, COL1A1, COL1A2, COL27A1, COL2A1, COL3A1, COL4A3, COL4A4, COL4A5, COL4A6, COL5A1, COL5A2, MMP1, MMP3, STXB5L

### Insulin Resistance



MEDIUM-HIGH

Resistance to the hormone insulin, resulting in increased blood sugar.

#### Genes

ADIPOQ, ADRB2, APOA1, APOC3, C5ORF67, ENPP1, GRB14, IL-6, IRS1, PLIN1

### Type 2 diabetes



HIGH

Type 2 Diabetes is a chronic disease that affects the way the body metabolizes glucose, the body's main source of energy. A person with type 2 diabetes may be resistant to the effects of insulin - the hormone that regulates the entry of sugar into cells - or not produce enough insulin to maintain a normal glucose level. Result and orange or red indicate increased risk of type 2 diabetes.

#### Genes

ADCY5, ADIPOQ, ADRA2A, ADRB2, AKT1, CAPN10, CDKAL1, CDKN2A, CDKN2A/B, CDKN2B-AS1, ENPP1, ESR1, FAM58A, FTO, GAD1, GCK, GCKR, GPX1, HHEX, HNF1B, IGF2BP2, INSIG2, IRS1, JAZF1, KCNJ11, KCNQ1, LEPR, MTNR1B, NAF1, NOTCH2, PAX4, PEX5L, PPARG, PTPRD, PTPRS, RPSAP52, SDHAF4, SLC2A14, SLC2A4, SLC30A8, TCF2, TCF7L2, THADA, UBE2E2

## 3. Metabolic Health

### Glycation

 MEDIUM-HIGH

Glycation is a process that joins a glucose molecule with a protein molecule, such as collagen and elastin - the same ones responsible for keeping the skin younger and firmer. This union destabilizes the protein and causes it to break down. It is an action as harmful as that of free radicals, promoting the formation of wrinkles and causing loss of elasticity and tone.

#### Genes

AGER, GLO1

### Metabolic syndrome

 HIGH

Metabolic syndrome is based on insulin resistance, which is a process that happens due to weight gain, but it can also start with type 2 diabetes. The most common cause is weight gain, which leads to increased blood pressure. , the development of type 2 diabetes and changes in triglycerides and cholesterol. Result in orange or red indicates a greater tendency to metabolic syndrome.

#### Genes

ADRB2, APOB, CD36, CYP27A1, CYP2C19, FTO, GHRL, LEPR, MC4R, MTP, NOS3

### Hypercholesterolemia (Type B)

 NORMAL

Increased blood cholesterol concentration. It is a form of hyperlipidemia (high blood lipids) and hyperlipoproteinemia (high blood lipoproteins).

#### Genes

APOB, INSIG2, LDLR

## 4. Neurotransmitter

### Dopamine Synthesis



MEDIUM-  
HIGH

This neurotransmitter plays important roles in the body. The first one is the feeling of pleasure. During pleasant circumstances, dopamine is released, triggering nerve impulses, which lead to a feeling of pleasure and well-being. Tasty foods, sex, games and drugs are some examples of situations that stimulate the action of dopamine. The substance also acts in the motor function of the human body, being responsible for the execution of voluntary movements, which are those that occur according to our will, such as muscle activity. Recent studies also show that the neurotransmitter is related to the memory capacity. According to scientists, this feeling of satisfaction and pleasure generated by the action of dopamine is associated, in the brain, with moments that are also pleasurable, which causes the information to be stored for a longer period in our memory. The concentration of dopamine in the body is also related to the emergence of diseases. Parkinson's disease, for example, has its origins linked to a lack of dopamine. This is because, with aging, there is a natural death of neurons, which reduces the production of the neurotransmitter. This lack of dopamine ends up altering body movements, making them uncoordinated, the main symptom of the disease. Addiction is another disorder associated with dopamine values in the body. Drugs act on neurotransmitter receptors, so when the individual uses these substances, the brain produces a large amount of dopamine, increasing the state of pleasure. Hence the need to consume the drug constantly in order to always have that feeling of pleasure. To stimulate the healthy production and release of dopamine, the consumption of foods rich in tyrosine such as dairy products, avocado, pumpkin, almond, beans, nuts, meat, eggs and others is recommended; avoid caffeine consumption and exercise regularly. Result in red or orange indicates less dopamine synthesis.

#### Genes

DDC, IGF2, TH

## 4. Neurotransmitter

### Serotonin Synthesis



In different behavioral states, extracellular changes in Serotonin levels occur. Decreased serotonin levels increase pain sensitivity, exploratory behavior, locomotor activity, and aggressive and sexual behaviors. In both men and animals, psychic disturbances have been correlated with alterations in serotonin functions, such as aggressive and obsessive behavior, in addition to attention deficit. Serotonin is the main inhibitor of the ventromedial hypothalamic nucleus, a site in the CNS where the satiety center is located. This hypothalamic effect is highly specific for carbohydrates, requiring other cofactors to act on proteins and lipids. Thus, when serotonin decreases, weight gain occurs. Conversely, when it is elevated, it causes loss of appetite. Orange or red result indicates reduced serotonin.

#### Genes

DDC, PLEKHA7, PTPRR, TPH1, TPH2

## 4. Neurotransmitter

### Dopamine degradation



HIGH

This neurotransmitter plays important roles in the body. The first one is the feeling of pleasure. During pleasant circumstances, dopamine is released, triggering nerve impulses, which lead to a feeling of pleasure and well-being. Tasty foods, sex, games and drugs are some examples of situations that stimulate the action of dopamine. The substance also acts in the motor function of the human body, being responsible for the execution of voluntary movements, which are those that occur according to our will, such as muscle activity. Recent studies also show that the neurotransmitter is related to the memory capacity. According to scientists, this feeling of satisfaction and pleasure generated by the action of dopamine is associated, in the brain, with moments that are also pleasurable, which causes the information to be stored for a longer period in our memory. The concentration of dopamine in the body is also related to the emergence of diseases. Parkinson's disease, for example, has its origins linked to a lack of dopamine. This is because, with aging, there is a natural death of neurons, which reduces the production of the neurotransmitter. This lack of dopamine ends up altering body movements, making them uncoordinated, the main symptom of the disease. Addiction is another disorder associated with dopamine values in the body. Drugs act on neurotransmitter receptors, so when the individual uses these substances, the brain produces a large amount of dopamine, increasing the state of pleasure. Hence the need to consume the drug constantly in order to always have that feeling of pleasure. To stimulate the healthy production and release of dopamine, the consumption of foods rich in tyrosine such as dairy products, avocado, pumpkin, almond, beans, nuts, meat, eggs and others is recommended; avoid caffeine consumption and exercise regularly. Result in red or orange indicates greater Dopamine degradation.

#### Genes

ARVCF, COMT, MAOA, MAOB

## 4. Neurotransmitter

### Serotonin degradation



HIGH

In different behavioral states, extracellular changes in Serotonin levels occur. Decreased serotonin levels increase pain sensitivity, exploratory behavior, locomotor activity, and aggressive and sexual behaviors. In both men and animals, psychic disturbances have been correlated with alterations in serotonin functions, such as aggressive and obsessive behavior, in addition to attention deficit. Serotonin is the main inhibitor of the ventromedial hypothalamic nucleus, a site in the CNS where the satiety center is located. This hypothalamic effect is highly specific for carbohydrates, requiring other cofactors to act on proteins and lipids. Thus, when serotonin decreases, weight gain occurs. Conversely, when it is elevated, it causes loss of appetite. Red result indicates reduced serotonin.

#### Genes

MAOA

### Melatonin



LOW

Melatonin is a hormone linked to the circadian cycle, that is, the way the body organizes its functions when we are awake and during sleep. The substance begins to be produced in the pineal gland when the day gets dark, to help the body prepare for sleep. It reaches its maximum level when we are sleeping. With the rising of the sun and the return of light, the gland reduces the production of melatonin, which signals that it is time to wake up.

#### Genes

ASMT, MTNR1A, MTNR1B, TPH2

## 4. Neurotransmitter

### BDNF GG



HIGH

Brain Derived Neurotrophic Factor (BDNF) is a key molecule involved in plastic changes related to learning and memory. The expression of BDNF is highly regulated, and can lead to great variability in BDNF levels in healthy subjects. Changes in BDNF expression are associated with both normal and pathological aging and also psychiatric disease, in particular in structures important for memory processes such as the hippocampus and parahippocampal areas. Some interventions like exercise or antidepressant administration enhance the expression of BDNF in normal and pathological conditions.

Genes  
BDNF

### Glutamate



HIGH

Glutamate is the most abundant amino acid in the central nervous system (CNS) acting as an excitatory neurotransmitter. In addition, it acts on neural development, synaptic plasticity, learning, memory and plays a fundamental role in the mechanism of some neurodegenerative diseases.

Genes  
CBS

## 5. CVD

### Hypertension

 MEDIUM-HIGH

Also called High Blood Pressure, it is a condition in which the force of the blood against the wall of the arteries is too great.

#### Genes

ACE, ADD1, AGT, AGTR1, APOE4, ATP2B1, BCAT1, CALCA, CLCN6, CNNM2, CYP11B2, CYP17A1, CYP4A11, EDN1, EDNRA, GRK4, GUCY1A3, HIVEP2, IL-6, NEDD4L, NOS3, PPARG, STK39, TRPM6, UMOD

### LDL (Cholesterol)

 MEDIUM-HIGH

Tendency to lower or higher LDL cholesterol levels in general.

#### Genes

ABCA1, ABCG8, APOB, APOC1, APOC3, APOE, AR, BRCA2, CELSR2, CPS1, CR1L, DNAH11, FABP2, GPX1, HMGCR, HNF1A, LDLR, MAFB, MMAB, MTHFR, MYRF, NAF1, NOS3, PCSK9, SCARB1, SHBG

### HDL (Cholesterol)

 MEDIUM-HIGH

Good cholesterol, also known as HDL cholesterol, is a type of cholesterol that is important for the proper functioning of the body, as it acts in the process of eliminating fats from the body, helping to prevent heart disease. However, for this, it is important that the cholesterol levels in both men and women are above 40 mg/dL and that LDL levels, which is bad cholesterol, be less than 130 mg/dL.

#### Genes

ABCA1, ABCG8, APOA1, APOA4, BUD13, CETP, EDN1, FADS2, FTO, HNF4A, IL-6, INTERGENIC, LDLR, LIPC, LIPG, LPL, LTA, NUTF2, PCIF1, PLTP, PPARD, SCARB1, TTC39B, VWF, ZPR1

## 5. CVD

### Triglycerides

 MEDIUM-HIGH

Tendency to higher serum triglyceride levels. Triglycerides are fats from the food we eat that are carried in the blood. Most of the fats we eat, including butter, margarine, and oils, are in triglyceride form. Excess calories, alcohol or sugar in the body turn into triglycerides and are stored in fat cells throughout the body.

#### Genes

ABCG8, APOA5, APOB, APOE, BUD13, CILP2, DOCK7, FADS1, FADS2, FTO, GCKR, HMGCR, INTERGENIC, JMJD1C, LDLR, LEPR, LIPC, LPL, LYPLAL1, MLXIPL, OR4A46P, PCIF1, PCSK9, PHYHIP, PPARG, RAB11B, SHBG, SUGP1, TBL2, TMEM241, TRIB1, XKR6, ZPR1

### Atherosclerosis

 MEDIUM

Atherosclerosis is a chronic, progressive vascular disease that usually manifests in adulthood or advanced age. Atherosclerosis is a form of arteriosclerosis characterized by chronic inflammation of the innermost layer of arteries, in direct contact

#### Genes

CDKN2B-AS1, CYBA, CYP26B1, MPO, MTHFR, NFE2L2, PON1, TWIST1, VEGFA

### Acute myocardial infarction

 HIGH

Blockage of blood flow to the heart muscle.

#### Genes

ADRB2, APOA5, BRAP, CDKN2B-AS1, CETP, CYP11B2, F12, F13A1, F7, FLJ25967, GJA4, IL-4, INTERGENIC, ITGB3, LRP8, MMP3, MMP9, OLR1, PSMA6, PSRC1, SH2B3, TLR4, TNFSF4

## 5. CVD

### Cardiovascular diseases



Evaluation of a set of genes associated with an increased risk of cardiovascular disease as a whole.

#### Genes

ALDH2, ARG1, IL-6, NOS3, SLC2A14, SOD2

## 6. Mood Disorders/Neurology

### Anxiety



MEDIUM

Tendency to be an anxious person can be influenced by the polymorphisms of several genes. The graph on the side indicates the predisposition to develop this condition.

#### Genes

AVPR1A, BDNF, MAOA, NGF, RGS2, TPH2

### Impulsivity



HIGH

In psychology, impulsiveness is an impulse or tendency to act, in which the behavior has little or no prior thought or reflection. Impulsiveness, therefore, often leads to risky behavior.

#### Genes

ANKK1, BDNF, COMT, HTR1A, HTR1B, HTR2A, NRXN3, OPRM1

### Inflammation and Depression



MEDIUM

One of the causes of depression is inflammation. Studies show that inflammatory markers such as IL-1, IL-6, TNF-Alpha and CRP would be significantly increased in depressed people and would be responsible for reducing serotonin levels in the synaptic cleft, which could theoretically cause depression. Chronic exposure to increased inflammation is thought to drive changes in neurotransmitters and neurocircuits that lead to depressive symptoms and that may also interfere with or circumvent the efficacy of antidepressants. Another research carried out and published in The American Journal of Psychiatry, with 86 thousand people, observed that people with depression had higher rates of inflammation. This study looked at the presence of C-Reactive Protein (CRP), which showed higher levels in depressed people. C-Reactive Protein is a protein synthesized by the liver and its levels increase in response to inflammation. Its main inducer is Interleukin-6 (IL-6). An important role played by C-Reactive Protein is the recognition of pathogens or damaged cells. Ordering a blood test to evaluate CRP is an option to identify levels of inflammation.

#### Genes

IDO1, IL-1B, IL-6, IL-6R, KMO, TNF

## 6. Mood Disorders/Neurology

### Sleep disorder



Changes in sleep patterns or habits that can negatively affect health.

#### Genes

AANAT, AOC1, CLOCK, CRY1, FABP7, GAD1, GRIA3, HCRTR2, MAT1A, PER3

## 7. Inflammation

### Arthritis



Arthritis is inflammation in one or more joints, which are the "joints" between two bones. The main types of arthritis are rheumatoid arthritis and osteoarthritis (also known as osteoarthritis).

#### Genes

HLA-DQA1

### Eczema



Eczema is a type of dermatosis that is characterized by having several types of lesions. It can be acute, subacute or chronic. The acute version has lesions that start with reddish marks with water bubbles on the surface that, when they break, eliminate a clear liquid, which characterizes the subacute phase of eczema. In the chronic phase, the secretion starts to dry, leading to the formation of crusts. At this stage, an increase in skin thickness is also observed. The patient may have acute eczema, acute/subacute, subacute/chronic or just chronic. Thus, it is not necessary for the same patient to have all phases of an eczema to make a diagnosis of the dermatosis.

#### Genes

CLEC16A, IL-6R, IL-7R, INTERGENIC, OVOL1, PRR5L, PUS10, RTEL1, STAT3, ZNF365

### Rosacea



A condition that causes redness and often small, red, pus-filled bumps on the face.

#### Genes

INTERGENIC

## 7. Inflammation

### Psoriasis



MEDIUM

A disease in which skin cells accumulate and form scales and dry patches that cause itching.

#### Genes

CARD14, CHUK, DDX58, FASLG, FUT2, HLA-C, IFIH1, IKBKE, IL-12B, IL-13, IL-23R, IL-31, INTERGENIC, KLRK1, POU5F1, PSORS1C3, QTRT1, REV3L, SLC9A3R1, STAT2, TNF, TNFAIP3, TRIM47, UBAC2, ZNF365

### Tumor Necrosis Factor Alpha



NORMAL

Tumor necrosis factor is a cell signaling protein involved in systemic inflammation and is one of the cytokines that make up the acute phase reaction

#### Genes

TNF

### Irritable Bowel Syndrome



NORMAL

A group of symptoms including abdominal pain and changes in bowel movement pattern, without any evidence of underlying injury.

#### Genes

CNR1, CRHR1, HTR3E, TNF, TNFSF15

## 8. Cancer

### Endometrial Neoplasm



MEDIUM

Endometrial cancer is a malignant disease in which cells form in the tissues of the endometrium, which is the inside of the uterus, a hollow muscular organ located in a woman's pelvis. Endometrial cancer is the extracolonic neoplasm most frequently associated with Lynch II syndrome, with a cumulative risk of 42% at 80 years of age. In addition, the cumulative risk for the development of other extra-colonial tumors, such as cancers of the stomach, ovaries, and biliary and urinary tracts (19%, 9%, 18% and 10%, respectively), is greater than the expected at random. It is estimated that in families with Lynch I syndrome, 40% have mutations in MSH2 and 30% in MLH1 (2). More than 100 mutations have been described in MSH2, predominantly substitutions and small deletions.

#### Genes

CDKN1B, COMT, CYP1B1, ESR1, MDM2, MLH3, MSH6, MUTYH, PGR, POLD1, PTEN, SHBG

### Hereditary Breast and Ovary Cancer Syndrome



MEDIUM

Cancer that forms in the cells of the breasts and ovaries.

#### Genes

BRCA1, BRCA2

## 8. Cancer

### Ovary Neoplasm



Ovarian cancer is the most lethal gynecological neoplasm and the overall survival is less than 40% in five years. This is mainly because most patients have advanced stages at the time of diagnosis. In these cases, the therapeutic options - cytoreduction and chemotherapy - are only partially effective. When diagnosed early, on the other hand, the five-year survival is greater than 90% and surgery is usually the only treatment needed. However, due to the low prevalence of ovarian cancer in the population, even very specific tests produce high rates of false-positive results and increased surgical interventions to address asymptomatic adnexal masses. Based on these facts, it is essential to search for methods and strategies to detect these tumors in their early stages and, at the same time, avoid unnecessary interventions.

#### Genes

BRCA1, BRCA2, BRIP1, CDKN2A, CHMP4C, CYP24A1, CYP2R1, CYP3A4, ERCC2, ESR1, HNF1B, INTERGENIC, LPAR6, MAGEC3, PGR, PMS2, PON1, RB1, SRD5A2, TIPARP, TP53, XRCC2

## 9. Hormonal Conditions

### PCOS



MEDIUM-  
HIGH

Distúrbio hormonal que causa um aumento no tamanho dos ovários, com pequenos cistos na parte externa deles.

#### Genes

DENND1A, FSHR, INSR, KISS1, LEPR, LHB, LHCGR, MARK2P9, MTNR1A, MTNR1B, SUOX, THADA, TNF

### Female Infertility



NORMAL

Causes of female infertility include ovulatory disorders, chromosomal abnormalities, endometriosis, pelvic adhesions, tubal blockage and other tubal abnormalities, and hyperprolactinemia. There is growing evidence that genetic abnormalities are present in infertile females and males.

#### Genes

FSHR, GDF9, LIF

### Endometriosis



NORMAL

A disorder in which the tissue that normally lines the uterus grows outside the uterus. This disorder can cause female infertility and have severe menstrual cramping symptoms. It affects women of different ages and even children.

#### Genes

CDKN2B-AS1, CKAP2L, DEFA1A3, ESR1, GRCH37.1, GREB1, IL-6, INTERGENIC, KSR2, MUC4, STIP1, TCN2, VEZT, WNT4

## 9. Hormonal Conditions

### Premature Ovarian Insufficiency



In primary ovarian failure, normal functioning of the ovaries is disrupted in women < 40 years of age. This disorder used to be called premature ovarian failure or premature menopause; however, these terms are misleading because women with primary ovarian failure do not always stop menstruating and their ovaries do not always stop working completely. Thus, a diagnosis of primary ovarian failure does not always mean that pregnancy is impossible. Furthermore, this disorder does not imply that a woman is aging prematurely; it just means that your ovaries are no longer working normally. A study found a positive association of allele A of the COMT rs4680 polymorphism with POI, reflecting on the genotype. The allele acts in a dominant mode. The study suppose that it may produce increased damage to ovarian cells, leading to POI.

Genes  
COMT

## 10. Thyroid Health

### Hypothyroidism



MEDIUM

Predisposition to insufficient production of thyroid hormones.

#### Genes

CAPZB, CTLA4, DIO1, DUOX2, FGF7, FMNL1, FOXE1, HLA, INSR, INTERGENIC, IYD, MTF1, PDE10A, PDE8B, PHTF1, PTCSC2, SH2B3, TG, TPO, TSHR, VAV3, ZNF804B

### Hyperthyroidism



LOW

Hyperthyroidism (overactive thyroid) occurs when your thyroid gland produces too much of the hormone thyroxine. Hyperthyroidism can accelerate your body's metabolism, causing unintentional weight loss and a rapid or irregular heartbeat.

#### Genes

MICOS10, PDE8B, TNF, TSHR

## 11. Skin and Hair

### Loss of hair



MEDIUM

Losing hair is normal. About 50 to 100 strands of hair fall out of everyone's head daily - which is not much compared to the 100,000+ strands on our scalp. As we get older, our hair strands become thinner and thinner. However, many people experience more severe hair loss, which could be a sign of a more serious health problem. But, even in very severe cases, those who suffer from hair loss have no reason to panic: this condition does not lead to baldness, as all the hair that falls out will be replaced by new hairs.

#### Genes

AR, C1ORF127, CYP19A1, EDA2R, GRID1, HDAC9, HR, IL-1B, INTERGENIC, LINC01432

### Alopecia Areata

MEDIUM-  
HIGH

Alopecia areata is an inflammatory disease that causes hair loss. Several factors are involved in its development, such as genetics and autoimmune participation. The strands begin to fall resulting more often in circular flaws with no hair or hair.

#### Genes

HLA-DQA2, IL2RA, INTERGENIC, PTPN22

### Melasma

MEDIUM-  
HIGH

Melasma is a condition characterized by the appearance of dark spots on the skin, most commonly on the face, but it can also be extrafacial, affecting the arms, neck and cervix. It affects women more often and can also be seen in men.

#### Genes

BNC2, IRF4, MC1R, OCA2, SLC24A5, SLC45A2

## 11. Skin and Hair

### Skin Aging



Skin changes are among the most visible signs of aging. Skin properties such as hydration, elasticity and antioxidant capacity play a key role in the skin aging process. Skin aging is a complex process influenced by hereditary and environmental factors. Recent twin studies have revealed that up to 60% of the variation in skin aging between individuals can be attributed to genetic factors, while the remaining 40% is due to non-genetic factors. Recent advances in genomics and bioinformatics approaches have led to the association of certain single nucleotide polymorphisms (SNPs) with skin properties. Our analysis assesses individuals based on a set of multiple polymorphisms associated with certain skin properties to provide personalized skin care and anti-aging therapies.

#### Genes

AQP3, CAT, IL-6, MMP1, MMP3, MMP9, NFE2L2, NQO1, SOD2

## 12. Urinary and Sexual Health

### Urinary incontinence



UNDEFINED

Urinary incontinence - involuntary leakage of urine - is a common and often embarrassing problem. The severity varies: in some cases, the person cannot hold the urine when making efforts such as coughing or sneezing, in other cases, the urge to urinate is so sudden and strong that there is no time to reach a bathroom. It reaches around 10 million Brazilians.

Genes  
LOXL1

### Pelvic Organ Prolapse

MEDIUM-  
HIGH

Pelvic organ prolapse occurs when the pelvic muscles and ligaments are weakened and unable to hold the pelvic organs in place. Thus, the organs can move to the pelvic region. Prolapsed women often have a feeling of heaviness over the vagina or pelvis. They may complain of a feeling of being "sitting in a ball" or notice a lump or mass coming out of the vaginal area while bathing. Sometimes this feeling of heaviness or bulging is felt more towards the end of the day, after work or standing all day. Other symptoms include pain during intercourse, urinary incontinence and bowel problems.

Genes  
COL3A1, PGR

## 13. Nutritional Requirements

### Absorption of Vitamin B12



MEDIUM

Orange and red indicate higher levels of Vitamin B12 absorption, especially in women.

#### Genes

FUT2

### Vitamin B5 (Pantothenic Acid)



HIGH

Vitamin B5, also called pantothenic acid, performs functions in the body such as producing cholesterol, hormones and red blood cells, which are the cells that carry oxygen in the blood. This vitamin can be found in foods such as fresh meat, cauliflower, broccoli, whole grains, eggs and milk, and its deficiency can cause symptoms such as tiredness, depression and frequent irritation. Some benefits: Produce energy and maintain the proper functioning of the metabolism; Maintain adequate production of hormones and vitamin D; Decrease tiredness and fatigue; Favor the healing of wounds and surgeries; Reduce high cholesterol and triglycerides; Help control symptoms of rheumatoid arthritis.

#### Genes

ABCA1, ABCG8, AHCY, AIRE, ANAPC4, ANXA3, AOC1, APOA5, APOC1, APOE, AR, BRCA2, C5, CDK6, CPS1, CR1L, CTLA4, DNAH11, DOCK7, EOMES, FABP2, FADS1, FADS2, FCRL3, GAD1, GCKR, GPX1, GUCY1B2, HLA-DQA1, HLA-DRB1, HTR2A, HYKK, ICAM3, IL-2RA, IL-2RB, INTERGENIC, IRF5, ITGAV, JMJD1C, KIAA1109, LDLR, LPL, MAT1A, MCT1, MLXIPL, MMEL1, MTHFR, NAF1, NFKBIE, NOD2, OR4A46P, PADI4, PCIF1, PHF19, PHTF1, PHYHIP, PLD4, PSMA4, PTPN2, PTPN22, RAB11B, SLC6A11, STAT4, TMEM241, TNF, TRAF1, TRAF1/C5, UBASH3A, VARS2, WDFY4, ZNF175, ZPR1

### Vitamin B6



HIGH

Pyridoxine promotes cell respiration and helps in protein metabolism, in addition to helping to reduce fluid retention. Indication in orange or red indicates greater need.

#### Genes

ABCA1, ABCB1, ADA, ADORA2A, AHCY, ALPL, ARMS2, BCR, BDNF, C2, C3, CBS, CETP, CFB, CFH, CHRM2, CLOCK, COL8A1, COMT, CRYBB2, CRYBB3, CRYGD, CX3CR1, DAT, DCDC2, DTNBP1, EPHA2, FGD6, FGF20, FKBP5, GAD1, GJA8, GPHN, GPX4, GRIA3, GSR, HTR2A, HTR2C, HTRA1, IL-1B, INTERGENIC, KIAA0319, MAF, MAOA, MTHFR, MTRR, NBP3, NOTCH4, NPAS2, NR3C1, OXTR, PDE11A, PDE9A, PITX2, REST, SERPINF1, SKIV2L, SLC64A, SOD2, TDP2, TLR3, TPH1, TTRAP, VEGFA

## 13. Nutritional Requirements

### Vitamin B7 (Biotin)



MEDIUM-HIGH

Vitamin B7 (Biotin) is one of the B-complex vitamins, responsible for breaking down fats and carbohydrates from food and transforming them into energy. It is important to produce keratin (stronger nails and hair). Promotes good skin health.

#### Genes

ABCA1, ACHE, ACP7, ADRA2A, AR, ARL15, ARMS2, C2, C3, CAPN10, CDKAL1, CDKN2A, CDKN2A/B, CDKN2B-AS1, CETP, CFH, COL8A1, CRYBB2, CRYGD, CX3CR1, DNER, EPHA2, FGD6, FGFR3, FTO, GAD1, GCKR, GJA8, GRK5, GSR, HHEX, HTRA1, IL-6, INTERGENIC, IRS1, JAZF1, KCNJ11, KCNQ1, MAF, MTTP, NOS3, NOTCH2, NOTCH4, PAX4, PITX2, PPARG, RBMS1, REST, RHOA, RPSAP52, SKIV2L, SLC2A14, SLC30A8, SOD2, TCF7L2, TGFB3, TLR3, TRIB3, TRPS1, VEGFA, VPS26A, VPS33B

### Vitamin B9 (Folic Acid)



MEDIUM-HIGH

Folic acid, folacin, pteroyl-L-glutamic acid or Vitamin B9, is a water-soluble vitamin belonging to the B complex for the formation of structural proteins and hemoglobin. Folic acid is effective in treating certain anemias; It is one of the essential components for a healthy pregnancy; Reduces risk of Alzheimer's disease; It can help prevent heart disease and stroke; It can help prevent anencephaly of fetuses in pregnancy; Helps control hypertension; Hair and Nail Loss; Improves blood insulin levels; Reduces hearing loss in the elderly.

#### Genes

ABCB1, ADA, ADORA2A, AHCY, AVPR1A, BCR, BDNF, BHMT, BTNL2, CBS, CHRM2, CLOCK, CTLA4, CYP24A1, DAT, DHFR, DPYD, FGF20, FKBP5, FOLR3, FOXE1, GAD1, GGCX, GPHN, GPX4, GTF2I, HCG9, HERC2, HLA-DRA, HLA-DRB1, HTR2A, HTR2C, IKZF4, IL-1B, IL4R, INS, INTERGENIC, LPP, MAOA, MGMT, MTHFD1, MTHFR, MTR, MTRR, MYT1L, NGF, NOS3, NPAS2, NR3C1, OXTR, PDE11A, PDE9A, RGS2, RPGRIP1L, SELENON, SLC1A2, SLC64A, STAT4, TCN2, TG, TGFB1, TICAM1, TPH1, TPH2, TYR

### Vitamin C



MEDIUM

Ascorbic acid or vitamin C is a molecule used in the hydroxylation of various biochemical reactions in cells. Indication in orange or red indicates greater need.

#### Genes

ABCA1, ABCB1, ABI3BP, ALDH2, AOC1, APOB, ATM, AURKA, B3GALT1, BCO1, CCHCR1, CDKN1A, CDKN2A, CETP, CFH, CLPTM1L, CYP1A1, CYP1B1, CYP2E1, CYP3A4, CYP3A5, DEF8, DHFR, DIRC3, DPYD, E2F3, EPHX1, ERI1, FASLG, FOXE1, G6PD, GPX1, GSTP1, HDAC4, HLA-DRA, HLA-DRB1, HNF1A, HTRA1, IGF1R, IL4R, INTERGENIC, IRF4, KL, LMNA, MC1R, MDM2, MTHFR, MTRR, PIK3CA, PPARG, PPARGC1A, PTEN, RNASEL, SIRT1, SLC23A1, SLC2A14, SLC39A6, SLC45A2, SOD2, SOD3, SPIRE2, STAT4, TERT, TYR, XPC, XRCC1

## 13. Nutritional Requirements

### Vitamin D



HIGH

Vitamin D is the general name given to a group of fat-soluble compounds that are essential for maintaining the mineral balance in the body, and is also known as anti-rachitic and cholecalciferous vitamin D. Indication in orange or red indicates greater need.

#### Genes

ABCA1, ABCB1, ABI3BP, ACE, ACHE, ACP7, ADCY5, ADD1, ADD2, ADIPOQ, ADRA2A, ADRB2, AGAP2, AGT, AGTR1, AHI1, ALDH2, ALK, ANKRD1, AOC1, APOB, APOE, APOE4, ARL15, ASIC2, ATM, ATP2B1, ATP6V1B1, AURKA, B3GALT1, BAG3, BAG6, BATF, BCAT1, BCO1, BDNF, BMPR1B, BMPR2, BRAP, BRCA2, BTBD, C1ORF106, CACNB2, CALCA, CAPN10, CASZ1, CAV3, CBLB, CBS, CCHCR1, CCL2, CD58, CD86, CDH13, CDKAL1, CDKN1A, CDKN2A, CDKN2A/B, CDKN2B-AS1, CETP, CFH, CHRDL1, CHST12, CLCN6, CLEC16A, CLPTM1L, CLSTN2, CRP, CYP1A1, CYP1B1, CYP24A1, CYP27B1, CYP2E1, CYP2R1, CYP3A4, CYP3A5, CYP4A11, DAPK1, DBC1, DEF8, DHFR, DIRC3, DKKL1, DLEU1, DMD, DNAJC5B, DNER, DPYD, DSG2, E2F3, ENPP1, EPHX1, ERG, ERI1, ESR1, EVI5, F12, F7, FAM58A, FAM69A, FASLG, FGF20, FLJ25967, FMN2, FOXE1, FTO, G6PD, GAD1, GATA2, GATA4, GC, GCK, GCKR, GPX1, GPX4, GRK5, GSTP1, GUCY1A3, HDAC4, HHEX, HIVEP2, HLA-DRA, HLA-DRB1, HNF1A, HSPD1, HSPE1, IFNL4, IGF1R, IGF2BP2, IL-2RA, IL-4, IL-6, IL-7R, IL4R, INSIG2, INTERGENIC, IRF4, IRF5, IRS1, ITGA11, ITGB3, JAG1, JAZF1, KCNE1, KCNE2, KCNE3, KCNJ11, KCNQ1, KL, KLC1, KLRB1, LAG3, LEPR, LIPA, LMNA, LRP8, M6PR, MACROD2, MALT1, MAOA, MC1R, MDM2, MERTK, MMP3, MMP9, MOV10, MPV17L2, MRAS, MTHFD1, MTHFD1L, MTHFR, MTNR1B, MTRR, MTPP, MYBPC1, MYBPC3, MYO16, NADSYN1, NAF1, NCKAP5, NEDD4L, NFE2L2, NGF, NLRP1, NOS3, NOTCH2, NOV, NPPA, NR2F2-AS1, NR3C1, OLR1, OPRM1, PAX4, PCK1, PDE4B, PECAM1, PEX5L, PHACTR1, PIK3CA, PLCL2, PLPP3, PPARG, PPARGC1A, PSMA6, PSRC1, PTEN, PTH, PTPRD, PTPRS, RASGRP1, RBMS1, RHOU, RNASEL, RPL5, RPS6KB1, RPSAP52, RYR2, SAMD12, SCN5A, SDHAF4, SEZ6L, SH2B3, SHMT1, SIRT1, SLC2A14, SLC30A7, SLC30A8, SLC39A6, SLC45A2, SMAD3, SOD2, SPIRE2, STAT4, STK39, SYK, TAP2, TCF7L2, TERT, TGFB3, THADA, THBS2, TLR4, TMPO, TNF, TNFSF14, TNFSF4, TRIB3, TRPM6, TTN, TTR, TXNRD2, TYR, UBE2E2, VDR, VPS26A, VPS33B, WFS1, WSCD2, XPC, XRCC1, ZNF767P

### Vitamin E



HIGH

Vitamin E is an important vitamin that helps regulate cholesterol, improve skin and hair health, and has an antioxidant action. Indication in orange or red indicates greater need.

#### Genes

A2M, ABCA2, ABCA7, ACE, ADD1, ADRB2, AGAP2, AHI1, ALK, ANKRD1, AOC1, APH1B, APOA5, APOC1, APOE, APOE4, APP, ARHGAP20, ARVCF, ASIC2, ATP2B1, ATP8B4, BACE1, BAG3, BATF, BDNF, BIN1, BRAP, BRCA2, BTBD, C1ORF106, CACNB2, CALHM1, CASC17, CASC21, CASC8, CAV3, CBLB, CCL2, CD2AP, CD58, CD86, CDH1, CDH13, CDKN1B, CDKN2B-AS1, CETP, CFH, CHAT, CHEK2, CHRDL1, CHST12, CLEC16A, CLSTN2, CLU, CNTNAP2, COMT, CPS1, CR1, CRP, CTNNA3, CYP17A1, CYP24A1, CYP2R1, CYP3A4, CYP4F2, DAB2IP, DAPK1, DBC1, DKK1, DKKL1, DLEU1, DMD, DNAJC5B, DPP6, DSG2, EHBP1, EIF2AK2, ELAC2, ENTPD7, ERG, ESR2, EVI5, F12, F7, FAM124A, FAM171A2, FAM69A, FCHSD1, FGF20, FGFR4, FLJ10986, FLJ25967, FMN2, FRMD4A, FYCO1, GAB2, GATA2, GATA4, GCKR, GOLM1, GPX1, GRN, GSTP1, HLA-DRA, HLA-DRB1, HNF1B, HSPD1, HSPE1, HTRA1, IDE, IL-10, IL-18RAP, IL-2RA, IL-4, IL-6, IL-7R, INTERGENIC, IRF5, ITGA2, ITGA6, ITGB3, JAG1, JAZF1, KCNE1, KCNE2, KCNE3, KCNQ1, KIAA1211, KL, KLC1, KLF6, KLRB1, LAG3, LDLR, LIPA, LIPC, LOXHD1, LRP6, LRP8, LTA, MAGEC3, MAGI2, MALT1, MAOA, MERTK, MME, MMP3, MMP9, MPO, MPV17L2, MRAS, MS4A6A, MSMB, MTHFD1, MTHFD1L, MYBPC3, NAF1, NCKAP5, NKAIN3, NLRP1, NOS3, NPPA, OLR1, PCAT19, PCDH11X, PCK1, PDE4B, PECAM1, PEX6, PHACTR1, PICALM, PLAUI, PLCL2, PLD3, PLPP3, POLN, PON2, PPP1R3B, PRRC2C, PSEN1, PSEN2, PSMA6, PSRC1, RNASEL, RPL5, RPS6KB1, RYR2, SAMD12, SCN5A, SELENOP, SEZ6L, SH2B3, SLC30A7, SMAD3, SOD1, SOD3, SORL1, SYK, TAP2, TCF2, TCF7L2, TET1, THBS2, TLR4, TM2D3, TMPO, TMPRSS2, TNF, TNFSF14, TNFSF4, TREM2, TRPM7, TTN, TTPA, TTR, TXNRD2, VDR, XRCC1, ZNF767P, ZNF827, ZPR1

## 13. Nutritional Requirements

### Vitamin A



NORMAL

Vitamin A or Retinol is a micronutrient belonging to the group of fat-soluble vitamins, which can be found in animal tissue in the form of retinoids or as a pro-vitamin in plant tissue, in the form of carotenoid. Indication in orange or red indicates greater need.

#### Genes

BCO1

### Vitamin B3 (Niacin)



HIGH

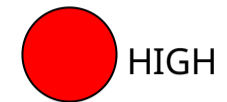
Niacin (nicotinic acid, vitamin B3) was considered a promising candidate to prevent cardiovascular disease because it is known to lower cholesterol in the blood, which is one of the main risk factors. Therefore, long-term therapy with niacin was assumed to reduce the risk of heart attack, and stroke. It's also important for maintaining the balance of the skin and nervous system. It is also relevant to the proper functioning of the digestive system.

#### Genes

BST1, CD38, GAD1, NAMPT, SIRT1, SIRT3, SIRT6

## 13. Nutritional Requirements

### Vitamin B1 (Thiamine)



Vitamin B1, thiamin, or thiamine, enables the body to use carbohydrates as energy. It is essential for glucose metabolism, and it plays a key role in nerve, muscle, and heart function. Vitamin B1 helps the cells in the body convert food into energy. If you do not have enough vitamin B1 this process cannot work properly. You may have symptoms such as tiredness, loss of appetite and muscle weakness. Taking man-made thiamine helps restore normal levels of vitamin B1 in your body. Vitamin B1, or thiamin, helps prevent complications in the nervous system, brain, muscles, heart, stomach, and intestines. It is also involved in the flow of electrolytes into and out of muscle and nerve cells. It helps prevent diseases such as beriberi, which involves disorders of the heart, nerves, and digestive system. Patients who may receive thiamin to treat low levels of vitamin B1 include those with peripheral neuritis, which is an inflammation of the nerves outside the brain, or pellagra.

#### Genes

PNPLA3, SLC19A2, SLC19A3, SLC25A19, SLC35F3, TPK1

## 14. Breast Health

### Breast neoplasm



Breast cancer is a disease caused by the multiplication of abnormal cells in the breast, which form a tumor. The graph on the right indicates the genetic predisposition to develop this condition.

#### Genes

AGER, ATM, AURKA, BARD1, BMPR1B, BRCA1, BRCA2, BRIP1, CASC16, CASC21, CASP8, CCNE1, CDKN1A, CDKN1B, CDKN2A, CDKN2B-AS1, CHEK2, COMT, CYP1B1, CYP24A1, EPCAM, FANCA, FANCC, FGFR2, FGFR4, FTO, GAD1, GPX1, GPX4, GSTP1, HER2, HMMR, HRAS, INTERGENIC, LPAR6, LSP1, MAP3K1, MIR146A, MRPS30, NCOA3, NOS3, NQO1, PALB2, RB1, SLCO1B3, STAT5B, TERT, TNF, TP53, TPD52, VDR, WRN, XRCC1, XRCC2, XRCC3

## 15. Mental Health

### Depression



Mental disorder characterized by persistent depression or loss of interest in activities, significantly impairing daily life. It can trigger other illnesses and conditions, such as lack of appetite or excessive appetite. The graph on the right indicates the genetic predisposition to develop this condition.

#### Genes

BDNF, COMT, CRHR1, HTR1A, HTR2A, SLC6A15, TPH1, TPH2

## 16. Digestive Health

### Celiac disease



HIGH

Immune reaction to ingestion of gluten, a protein found in wheat, barley and rye. Celiac disease is strongly influenced by genetics, depending on a part of the DNA sequence called the HLA locus (human leukocyte antigen). There are many HLA sequence variants, but only two sequence variants called DQ2.5 (T allele in rs2187668) and DQ8 (C allele in rs7454108) can form inflammatory complexes with gliadin peptides. About 90% of celiac patients carry the DQ2.5 variant, and the remaining 10% produce the DQ8 variant. If you don't carry either of these two variants, it is virtually impossible to develop celiac disease.

#### Genes

ABL2, ATXN2, CCR3, CTLA4, HLA, HLA-DPA1, HLA-DQA1, HLA-DQB1, HLA-DRA, IL-18RAP, KIAA1109, LPP, MYO9B, NLRP3, RGS1, SH2B3, TAGAP

## 17. Weight and Nutrition

Weight gain with exercise  UNDEFINED

Easier to gain muscle mass with exercises.

Genes



## 18. Autoimmune Diseases

### Lupus

 MEDIUM-HIGH

Inflammatory disease caused when the immune system attacks its own tissues.

#### Genes

BANK1, C3, CRP, CTLA4, FCGR3A, GSR, HLA-DQA1, INTERGENIC, IRF5, ITGAM, ITGAX, ITPR3, LY9, MECP2, NELFE, NKX2-5, PRL, STAT4, TBX21, TLR9, TNF, TNFAIP3, TNPO3, TYK2

## 19. Eye Diseases

### Cataract



Opacity of the eye's natural lens.

#### Genes

CRYBB2, CRYBB3, CRYGD, EPHA2, GJA8, GSR, MAF, PITX2



## 20. Neurodegenerative Diseases

### Alzheimer's disease



MEDIUM-  
HIGH

Progressive disease that destroys memory and other important mental functions. As we age, our brains change and we may occasionally have difficulty remembering details. However, Alzheimer's disease and other dementias cause memory loss and other symptoms significant enough to interfere with people's daily lives. These symptoms are not natural to aging. Not all memory loss is caused by Alzheimer's. In addition to memory loss, Alzheimer's symptoms include: Problems completing tasks that were once easy; Difficulties in solving problems; Changes in mood or personality; distancing from friends and family; Problems with communication, both written and spoken; Confusion about places, people and events; Visual changes such as problems understanding images.

#### Genes

A2M, ABCA2, ABCA7, APOE, APOE4, APP, ARHGAP20, ATP8B4, BACE1, BDNF, BIN1, CALHM1, CD2AP, CETP, CHAT, CLU, CNTNAP2, CPS1, CR1, CTNNA3, CTSD, DAPK1, DKK1, EIF2AK2, ENTPD7, FAM171A2, FRMD4A, GAB2, GSK3B, GOLM1, IDE, IL-1B, IL-6, INTERGENIC, LDLR, LRP6, LTA, MAPT, MME, MPO, MS4A6A, OLR1, PCDH11X, PCK1, PEX6, PICALM, PLA2G1B, PLD3, POLN, PPP1R3B, PRRC2C, PSEN1, PSEN2, SORL1, SST, TAP2, TET1, TF, TFAM, TM2D3, TOMM40, TREM2

## 21. Respiratory Diseases

### Chronic obstructive pulmonary disease



A group of lung diseases that block airflow and make breathing difficult.

#### Genes

AQP5, ASRGL1, ATP2C2, CDKN1A, CXCL10, FAM13A, HSPA12A, HTR4, KAZN, P2RX7, PSORS1C1, SCGB1A1, SFTPB, TGFB1, TMEM254, TMEM63A, TNF

## 22. Gastrointestinal Diseases

### Gastroesophageal Reflux Disease

 MEDIUM-HIGH

It represents low water Gastro-esophageal disease or "acid low water" and is a common condition when acid produced in the stomach leaks out and flows back into the esophagus or food pipeline.

Genes  
CDCA3

### Absorption of Vitamin B12

| Gene | SNP       | Genotype          | Rare Allele | Result |
|------|-----------|-------------------|-------------|--------|
| FUT2 | rs1047781 | Variant not found | T           | ○      |
| FUT2 | rs492602  | CT-               | A,G         | ●      |
| FUT2 | rs601338  | AG+               | A           | ●      |
| FUT2 | rs602662  | AG+               | G           | ●      |

### Alopecia Areata

| Gene       | SNP       | Genotype | Rare Allele | Result |
|------------|-----------|----------|-------------|--------|
| HLA-DQA2   | rs9275572 | GG+      | G           | ●      |
| IL2RA      | rs3130320 | CT+      | T           | ●      |
| INTERGENIC | rs1024161 | CT+      | T           | ●      |
| INTERGENIC | rs9479482 | CT+      | T           | ●      |
| PTPN22     | rs2476601 | GG+      | G           | ●      |

### Anxiety

| Gene   | SNP        | Genotype          | Rare Allele | Result |
|--------|------------|-------------------|-------------|--------|
| AVPR1A | rs10877969 | Variant not found | C           | ○      |
| AVPR1A | rs11174811 | Variant not found | A           | ○      |
| BDNF   | rs6265     | GG-               | T           | ●      |
| MAOA   | rs909525   | GG-               | T           | ●      |
| NGF    | rs6330     | CC-               | A           | ●      |
| NGF    | rs6330     | CC-               | A           | ●      |
| RGS2   | rs4606     | CC+               | G           | ●      |
| TPH2   | rs4565946  | CT+               | A,G,T       | ●      |
| TPH2   | rs4570625  | GT+               | G           | ●      |
| TPH2   | rs4565946  | CT+               | A,G,T       | ●      |
| TPH2   | rs4570625  | GT+               | G           | ●      |

### Arthritis

| Gene     | SNP        | Genotype          | Rare Allele | Result |
|----------|------------|-------------------|-------------|--------|
| HLA-DQA1 | rs12722051 | Variant not found | T           | ○      |

### Rheumatoid arthritis

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| AHCY       | rs13043752  | Variant not found | A           | ○      |
| AHCY       | rs41301825  | Variant not found | T           | ○      |
| AIRE       | rs1055311   | Variant not found | G,T         | ○      |
| AIRE       | rs1800520   | Variant not found | A,G,T       | ○      |
| ANAPC4     | rs3816587   | Variant not found | T           | ○      |
| ANXA3      | rs2867461   | AG+               | G,T         | ●      |
| C5         | rs10985112  | GG+               | A           | ●      |
| CDK6       | rs42041     | Variant not found |             | ○      |
| CDK6       | rs606231255 | Variant not found | T           | ○      |
| CTLA4      | rs3087243   | AG+               | G           | ●      |
| EOMES      | rs3806624   | CT-               | G           | ●      |
| FCRL3      | rs7528684   | AG+               | G           | ●      |
| GUCY1B2    | rs3790022   | CC-               | A           | ●      |
| HLA-DRB1   | rs6457617   | TT+               | A,T         | ●      |
| HLA-DRB1   | rs660895    | GG+               | G           | ●      |
| HTR2A      | rs1328674   | AG-               | C,G         | ●      |
| HTR2A      | rs6313      | CT-               | A           | ●      |
| HTR2A      | rs6314      | CC-               | A           | ●      |
| HYKK       | rs8034191   | TT+               | C           | ●      |
| ICAM3      | rs2304240   | AG+               | G           | ●      |
| IL-2RA     | rs2104286   | AG-               | C           | ●      |
| IL-2RB     | rs743777    | AG+               | G           | ●      |
| INTERGENIC | rs11162922  | Variant not found | G           | ○      |
| INTERGENIC | rs11761231  | CT+               | C           | ●      |
| INTERGENIC | rs13192841  | GG+               | A           | ●      |
| INTERGENIC | rs2327832   | AG+               | G           | ●      |
| INTERGENIC | rs2837960   | GT+               | A,G         | ●      |
| INTERGENIC | rs2872507   | AG+               | A           | ●      |
| INTERGENIC | rs6920220   | AG+               | A           | ●      |
| INTERGENIC | rs9550642   | Variant not found | A           | ○      |
| IRF5       | rs2004640   | Variant not found | G           | ○      |
| ITGAV      | rs3738919   | AA+               | A           | ●      |
| KIAA1109   | rs13119723  | GG+               | G           | ●      |

| Gene     | SNP        | Genotype          | Rare Allele | Result |
|----------|------------|-------------------|-------------|--------|
| KIAA1109 | rs6822844  | GT+               | T           | ●      |
| MMEL1    | rs3890745  | Variant not found | C           | ○      |
| MMEL1    | rs6684865  | Variant not found | A           | ○      |
| NFKBIE   | rs2233434  | TT-               | G           | ●      |
| NFKBIE   | rs2233437  | Variant not found | A           | ○      |
| NOD2     | rs2066845  | GG+               | C,T         | ●      |
| PADI4    | rs11203366 | AG+               | A           | ●      |
| PADI4    | rs2240340  | AG-               | C           | ●      |
| PER2     | rs2304674  | CT-               | G           | ●      |
| PHF19    | rs1953126  | Variant not found | C           | ○      |
| PHTF1    | rs6679677  | CC+               | A           | ●      |
| PLD4     | rs2841277  | CT+               | T           | ●      |
| PRL      | rs1341239  | GT-               | A           | ●      |
| PSMA4    | rs12901682 | CC+               | C,T         | ●      |
| PTPN2    | rs1893217  | CC-               | G           | ●      |
| PTPN2    | rs2542151  | GG+               | T           | ●      |
| PTPN22   | rs2476601  | GG+               | G           | ●      |
| PTPN22   | rs2488457  | Variant not found | A,C         | ○      |
| SLC6A11  | rs1809529  | CT+               | T           | ●      |
| STAT4    | rs10181656 | CG+               | C           | ●      |
| STAT4    | rs7574865  | GT+               | G           | ●      |
| TNFAIP3  | rs2230926  | TT+               | C,G         | ●      |
| TRAF1    | rs10818488 | Variant not found | G           | ○      |
| TRAF1/C5 | rs3761847  | AA+               | A           | ●      |
| UBASH3A  | rs11203203 | AG+               | A           | ●      |
| VAR2     | rs4678     | CC-               | A           | ●      |
| WDFY4    | rs877819   | AG+               | G           | ●      |
| ZNF175   | rs1543922  | CC+               | T           | ●      |

#### Atherosclerosis

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| CDKN2B-AS1 | rs7865618  | AA+               | G           | ●      |
| CYBA       | rs4673     | CT-               | C           | ●      |
| CYBA       | rs9932581  | Variant not found |             | ○      |
| CYP26B1    | rs2241057  | TT-               | G           | ●      |
| MPO        | rs2333227  | TT+               | T           | ●      |
| MTHFR      | rs915014   | Variant not found |             | ○      |
| NFE2L2     | rs35652124 | CT+               | C           | ●      |
| PON1       | rs662      | AG-               | C           | ●      |
| TWIST1     | rs2107595  | CC-               | A           | ●      |
| VEGFA      | rs699947   | AA+               | A           | ●      |

#### BDNF GG

| Gene | SNP    | Genotype | Rare Allele | Result |
|------|--------|----------|-------------|--------|
| BDNF | rs6265 | GG-      | T           | ●      |

#### Calcium

| Gene | SNP    | Genotype | Rare Allele | Result |
|------|--------|----------|-------------|--------|
| GC   | rs7041 | GT-      | G           | ●      |
| GC   | rs4588 | CC-      | A,T         | ●      |

#### Cataract

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| CRYBB2 | rs74315489  | Variant not found |             | ○      |
| CRYBB3 | rs74315490  | GG+               |             | ●      |
| CRYGD  | rs28931605  | Variant not found |             | ○      |
| EPHA2  | rs116506614 | CC+               |             | ●      |
| EPHA2  | rs3754334   | CC-               | A           | ●      |
| GJA8   | rs2132397   | Variant not found |             | ○      |
| GJA8   | rs6657114   | Variant not found |             | ○      |
| GJA8   | rs6688578   | Variant not found |             | ○      |
| GJA8   | rs7541950   | Variant not found |             | ○      |
| GJA8   | rs864309684 | Variant not found |             | ○      |
| GSR    | rs3594      | Variant not found | A           | ○      |
| MAF    | rs121917735 | Variant not found | G,T         | ○      |
| MAF    | rs121917736 | Variant not found | C           | ○      |
| MAF    | rs786205221 | Variant not found | T           | ○      |
| PITX2  | rs6533526   | GG+               | A           | ●      |

HDL (Cholesterol)

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| ABCA1      | rs2575875  | Variant not found | A           | ○      |
| ABCA1      | rs3890189  | Variant not found | A           | ○      |
| ABCA1      | rs4149268  | AG-               | A,C         | ●      |
| ABCA1      | rs4149274  | Variant not found | A           | ○      |
| ABCG8      | rs6756629  | GG+               | T           | ●      |
| APOA1      | rs1799837  | Variant not found | T           | ○      |
| APOA4      | rs675      | TT+               | C           | ●      |
| BUD13      | rs28927680 | GG-               | G           | ●      |
| CETP       | rs183130   | TT+               | T           | ●      |
| CETP       | rs1864163  | GG+               | A           | ●      |
| CETP       | rs4329913  | GG-               | T           | ●      |
| CETP       | rs4783961  | AA+               | A           | ●      |
| CETP       | rs5882     | AG+               | A           | ●      |
| CETP       | rs708272   | CT-               | A           | ●      |
| EDN1       | rs5370     | GT+               | T           | ●      |
| FADS2      | rs174570   | CC+               | T           | ●      |
| FTO        | rs1558902  | TT+               | A           | ●      |
| HNF4A      | rs1800961  | CC+               | T           | ●      |
| IL-6       | rs1800795  | CG+               | G           | ●      |
| INTERGENIC | rs10468017 | CC+               | T           | ●      |
| INTERGENIC | rs12678919 | AA+               | G           | ●      |
| INTERGENIC | rs2156552  | Variant not found | G,T         | ○      |
| INTERGENIC | rs3764261  | TT-               | A           | ●      |
| LDLR       | rs6511720  | GG+               | T           | ●      |
| LIPC       | rs1800588  | CC+               | T           | ●      |
| LIPC       | rs261332   | GG+               | G           | ●      |
| LIPG       | rs4939883  | CT+               | C           | ●      |
| LPL        | rs285      | CT+               | T           | ●      |
| LPL        | rs320      | GT+               | G           | ●      |
| LPL        | rs328      | Variant not found | G           | ○      |
| LTA        | rs1799724  | CT+               | T           | ●      |
| NUTF2      | rs2271293  | AG+               | A           | ●      |
| PCIF1      | rs7679     | TT+               | C           | ●      |
| PLTP       | rs3843763  | Variant not found | T           | ○      |
| PPARD      | rs2016520  | AA-               | T           | ●      |
| PPARD      | rs3734254  | TT+               | T           | ●      |
| SCARB1     | rs5888     | CT-               | C           | ●      |
| TTC39B     | rs471364   | AA-               | C           | ●      |
| VWF        | rs2238104  | Variant not found | T           | ○      |
| ZPR1       | rs964184   | CC+               | C           | ●      |

LDL (Cholesterol)

| Gene   | SNP        | Genotype | Rare Allele | Result |
|--------|------------|----------|-------------|--------|
| ABCA1  | rs1883025  | AG-      | T           | ●      |
| ABCG8  | rs4299376  | TT+      | G           | ●      |
| ABCG8  | rs6544713  | CC+      | C           | ●      |
| ABCG8  | rs6756629  | GG+      | T           | ●      |
| APOB   | rs515135   | GG-      | C           | ●      |
| APOB   | rs693      | CT-      | A           | ●      |
| APOC1  | rs4420638  | AA+      | G           | ●      |
| APOC3  | rs5128     | CG-      | G           | ●      |
| APOE   | rs7412     | TT+      | T           | ●      |
| AR     | rs5031002  | GG+      | A           | ●      |
| BRCA2  | rs4942486  | CT+      | C           | ●      |
| CELSR2 | rs12740374 | GG+      | T           | ●      |
| CELSR2 | rs646776   | AA-      | T           | ●      |
| CELSR2 | rs629301   | AA-      | G           | ●      |
| CPS1   | rs1047891  | CC+      | A           | ●      |
| CR1L   | rs4844614  | GT+      | T           | ●      |
| DNAH11 | rs12670798 | TT+      | C           | ●      |
| FABP2  | rs1799883  | GG-      | A,C,G       | ●      |
| GPX1   | rs1050450  | CC-      | A           | ●      |
| HMGCR  | rs12654264 | AT+      | T           | ●      |
| HNF1A  | rs2650000  | GT-      | A           | ●      |
| LDLR   | rs6511720  | GG+      | T           | ●      |
| LDLR   | rs688      | CC+      | T           | ●      |

| Gene   | SNP        | Genotype          | Rare Allele | Result |
|--------|------------|-------------------|-------------|--------|
| MAFB   | rs6102059  | CC+               | T           | ●      |
| MMAB   | rs2241201  | CC+               | G           | ●      |
| MTHFR  | rs2066470  | Variant not found | A,C         | ○      |
| MYRF   | rs174537   | GG+               | T           | ●      |
| NAF1   | rs7675998  | GG+               | G,T         | ●      |
| NOS3   | rs1799983  | GG+               | T           | ●      |
| PCSK9  | rs11206510 | Variant not found | C           | ○      |
| SCARB1 | rs4238001  | Variant not found | T           | ○      |
| SHBG   | rs6259     | Variant not found | A           | ○      |
| SHBG   | rs727428   | AG-               | T           | ●      |

#### DHEA/DHEAS

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| ARPC1A     | rs740160   | CC+               | T           | ●      |
| BCL2L11    | rs6738028  | CG+               | G           | ●      |
| HHEX       | rs1111875  | Variant not found | T           | ○      |
| HHEX       | rs5015480  | TT+               | T           | ●      |
| INTERGENIC | rs2497306  | TT-               | C,T         | ●      |
| SHBG       | rs1799941  | GG+               | A           | ●      |
| SULT2A1    | rs2637125  | GG+               | A           | ●      |
| SULT2A1    | rs182420   | AA-               | C           | ●      |
| TRIM4      | rs17277546 | GG+               | A           | ●      |

#### Dopamine degradation

| Gene  | SNP         | Genotype          | Rare Allele | Result |
|-------|-------------|-------------------|-------------|--------|
| ARVCF | rs165599    | AG+               | A           | ●      |
| COMT  | rs13306278  | CC+               | T           | ●      |
| COMT  | rs165631    | CC+               | T           | ●      |
| COMT  | rs165656    | Variant not found | A,C,T       | ○      |
| COMT  | rs165688    | Variant not found | A           | ○      |
| COMT  | rs165722    | Variant not found | T           | ○      |
| COMT  | rs165774    | GG+               | A           | ●      |
| COMT  | rs17849308  | Variant not found |             | ○      |
| COMT  | rs2020917   | CT+               | T           | ●      |
| COMT  | rs2075507   | Variant not found | A,T         | ○      |
| COMT  | rs2097603   | Variant not found | A,T         | ○      |
| COMT  | rs2239393   | AG+               | G           | ●      |
| COMT  | rs3087869   | Variant not found | G           | ○      |
| COMT  | rs4633      | CT+               | T           | ●      |
| COMT  | rs4646312   | CT+               | C           | ●      |
| COMT  | rs4646316   | CT+               | G,T         | ●      |
| COMT  | rs4680      | AG+               | A           | ●      |
| COMT  | rs4818      | CC+               | G,T         | ●      |
| COMT  | rs5993882   | Variant not found | C,G         | ○      |
| COMT  | rs6267      | GG+               | A,T         | ●      |
| COMT  | rs6269      | AG+               | G           | ●      |
| COMT  | rs737865    | CT-               | G           | ●      |
| COMT  | rs737866    | AG-               | A,C         | ●      |
| COMT  | rs740602    | Variant not found | A           | ○      |
| COMT  | rs740603    | AG+               | G           | ●      |
| COMT  | rs769224    | GG+               | A           | ●      |
| COMT  | rs8192488   | CC+               | T           | ●      |
| COMT  | rs933271    | TT+               | A,C         | ●      |
| MAOA  | rs1137070   | TT+               | C           | ●      |
| MAOA  | rs1465107   | Variant not found | G           | ○      |
| MAOA  | rs2072743   | AA-               | C           | ●      |
| MAOA  | rs2235186   | TT-               | G           | ●      |
| MAOA  | rs2283725   | Variant not found | G,T         | ○      |
| MAOA  | rs3027400   | Variant not found | G           | ○      |
| MAOA  | rs3027407   | AA+               | G           | ●      |
| MAOA  | rs3027409   | TT+               | G           | ●      |
| MAOA  | rs3788862   | Variant not found | G           | ○      |
| MAOA  | rs587777457 | Variant not found | T           | ○      |
| MAOA  | rs5906883   | AA+               | C           | ●      |
| MAOA  | rs5906957   | Variant not found | C,G         | ○      |
| MAOA  | rs5953210   | GG+               | A           | ●      |
| MAOA  | rs6323      | GG+               | T           | ●      |
| MAOA  | rs6609257   | GG+               | A           | ●      |

| Gene | SNP         | Genotype          | Rare Allele | Result |
|------|-------------|-------------------|-------------|--------|
| MAOA | rs72554632  | Variant not found | T           | ○      |
| MAOA | rs796065311 | DD+               | T           | ●      |
| MAOA | rs796065312 | CC+               | T           | ●      |
| MAOA | rs909525    | GG-               | T           | ●      |
| MAOA | rs979606    | Variant not found | T           | ○      |
| MAOB | rs10521432  | AG+               | A           | ●      |
| MAOB | rs1799836   | AA-               | A,C         | ●      |
| MAOB | rs2283729   | AG+               | A           | ●      |
| MAOB | rs3027415   | Variant not found | C           | ○      |
| MAOB | rs6651806   | Variant not found | C           | ○      |

### Serotonin degradation

| Gene | SNP         | Genotype          | Rare Allele | Result |
|------|-------------|-------------------|-------------|--------|
| MAOA | rs1137070   | TT+               | C           | ●      |
| MAOA | rs1465107   | Variant not found | G           | ○      |
| MAOA | rs2072743   | AA-               | C           | ●      |
| MAOA | rs2235186   | TT-               | G           | ●      |
| MAOA | rs2283725   | Variant not found | G,T         | ○      |
| MAOA | rs3027400   | Variant not found | G           | ○      |
| MAOA | rs3027407   | AA+               | G           | ●      |
| MAOA | rs3027409   | TT+               | G           | ●      |
| MAOA | rs3788862   | Variant not found | G           | ○      |
| MAOA | rs58777457  | Variant not found | T           | ○      |
| MAOA | rs5906883   | AA+               | C           | ●      |
| MAOA | rs5906957   | Variant not found | C,G         | ○      |
| MAOA | rs5953210   | GG+               | A           | ●      |
| MAOA | rs6323      | GG+               | T           | ●      |
| MAOA | rs6609257   | GG+               | A           | ●      |
| MAOA | rs72554632  | Variant not found | T           | ○      |
| MAOA | rs796065311 | DD+               | T           | ●      |
| MAOA | rs796065312 | CC+               | T           | ●      |
| MAOA | rs909525    | GG-               | T           | ●      |
| MAOA | rs979606    | Variant not found | T           | ○      |

### Collagen Degradation

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| B4GALT7 | rs28937869   | CC+               | T           | ●      |
| CBS     | rs2298758    | GG+               | A,C         | ●      |
| CBS     | rs234706     | GG+               | A           | ●      |
| COL11A1 | rs398122828  | CC+               | T           | ●      |
| COL11A1 | rs587782990  | Variant not found | C,G         | ○      |
| COL11A1 | rs1057524237 | Variant not found | T           | ○      |
| COL11A1 | rs730882190  | Variant not found | C           | ○      |
| COL11A1 | rs1057518666 | Variant not found | T           | ○      |
| COL11A1 | rs11809524   | Variant not found | T           | ○      |
| COL11A1 | rs727503881  | CC+               | T           | ●      |
| COL11A1 | rs1676486    | Variant not found | G,T         | ○      |
| COL11A1 | rs121912944  | Variant not found | A           | ○      |
| COL11A1 | rs886044242  | Variant not found | T           | ○      |
| COL11A1 | rs886039743  | Variant not found | T           | ○      |
| COL11A1 | rs12138977   | Variant not found | T           | ○      |
| COL11A1 | rs1337185    | Variant not found | G,T         | ○      |
| COL11A1 | rs1057517989 | Variant not found |             | ○      |
| COL11A1 | rs2615977    | Variant not found | C           | ○      |
| COL11A1 | rs397514455  | Variant not found | G           | ○      |
| COL11A1 | rs1064797115 | Variant not found | G           | ○      |
| COL11A1 | rs886042653  | Variant not found | A           | ○      |
| COL11A1 | rs387906611  | Variant not found | G           | ○      |
| COL11A1 | rs2126642    | Variant not found | A           | ○      |
| COL11A1 | rs121912943  | Variant not found | A           | ○      |
| COL11A1 | rs886044244  | Variant not found | G           | ○      |
| COL11A1 | rs3753841    | AG+               | A           | ●      |
| COL11A1 | rs2622848    | TT+               | C           | ●      |
| COL11A2 | rs121912949  | GG+               | A,T         | ●      |
| COL11A2 | rs121912947  | Variant not found | A           | ○      |
| COL11A2 | rs786205578  | AA+               | G,T         | ●      |
| COL11A2 | rs121912946  | Variant not found | T           | ○      |
| COL11A2 | rs745434198  | Variant not found | A,T         | ○      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| COL11A2 | rs121912951  | Variant not found | A           | ○      |
| COL11A2 | rs374156844  | Variant not found | A           | ○      |
| COL11A2 | rs2076311    | AA+               | A           | ●      |
| COL11A2 | rs911722283  | Variant not found | A           | ○      |
| COL11A2 | rs606231410  | Variant not found | A,T         | ○      |
| COL11A2 | rs121912948  | Variant not found | T           | ○      |
| COL11A2 | rs121912952  | GG+               | T           | ●      |
| COL11A2 | rs768569721  | Variant not found | A,T         | ○      |
| COL11A2 | rs750995470  | Variant not found | T           | ○      |
| COL11A2 | rs2855429    | CC+               | C           | ●      |
| COL11A2 | rs2254287    | Variant not found | A,G,T       | ○      |
| COL11A2 | rs797044915  | CC+               | A           | ●      |
| COL11A2 | rs121912945  | CC+               | G,T         | ●      |
| COL11A2 | rs121912950  | Variant not found | A           | ○      |
| COL11A2 | rs864309523  | Variant not found | T           | ○      |
| COL11A2 | rs387906556  | Variant not found | T           | ○      |
| COL11A2 | rs770888294  | CC+               | A,T         | ●      |
| COL17A1 | rs805722     | Variant not found | A,C         | ○      |
| COL17A1 | rs121912771  | Variant not found | T           | ○      |
| COL17A1 | rs752317971  | Variant not found | A,G         | ○      |
| COL17A1 | rs1320448    | GG+               | G           | ●      |
| COL17A1 | rs1064793760 | Variant not found |             | ○      |
| COL17A1 | rs886041555  | Variant not found |             | ○      |
| COL17A1 | rs754289857  | Variant not found | T           | ○      |
| COL17A1 | rs17116350   | Variant not found | C,G         | ○      |
| COL17A1 | rs201940939  | Variant not found | T           | ○      |
| COL17A1 | rs121912770  | Variant not found | A           | ○      |
| COL17A1 | rs760714959  | Variant not found | A           | ○      |
| COL17A1 | rs121912769  | Variant not found | A           | ○      |
| COL17A1 | rs767083273  | Variant not found | G,T         | ○      |
| COL17A1 | rs797045142  | Variant not found | A           | ○      |
| COL17A1 | rs121912773  | Variant not found | T           | ○      |
| COL17A1 | rs805708     | Variant not found | A           | ○      |
| COL17A1 | rs121912772  | Variant not found | C           | ○      |
| COL17A1 | rs805698     | TT+               | G,T         | ●      |
| COL17A1 | rs121912774  | Variant not found | A           | ○      |
| COL17A1 | rs775196743  | Variant not found | A           | ○      |
| COL17A1 | rs775251483  | Variant not found |             | ○      |
| COL1A1  | rs1061237    | Variant not found | C,G,T       | ○      |
| COL1A1  | rs17639446   | Variant not found | C           | ○      |
| COL1A1  | rs1064796499 | Variant not found | T           | ○      |
| COL1A1  | rs72645365   | Variant not found | A           | ○      |
| COL1A1  | rs72651646   | Variant not found | T           | ○      |
| COL1A1  | rs193922150  | CC+               | T           | ●      |
| COL1A1  | rs1085307454 | Variant not found | T           | ○      |
| COL1A1  | rs193922155  | TT+               | C           | ●      |
| COL1A1  | rs193922144  | GG+               | A           | ●      |
| COL1A1  | rs2412298    | Variant not found | A           | ○      |
| COL1A1  | rs72648320   | CC+               | T           | ●      |
| COL1A1  | rs72645357   | GG-               | T           | ●      |
| COL1A1  | rs67394386   | Variant not found | A,T         | ○      |
| COL1A1  | rs72645333   | Variant not found | T           | ○      |
| COL1A1  | rs113647555  | Variant not found | A           | ○      |
| COL1A1  | rs67682641   | Variant not found | A,T         | ○      |
| COL1A1  | rs193922137  | Variant not found | A           | ○      |
| COL1A1  | rs1107946    | Variant not found | C           | ○      |
| COL1A1  | rs72645353   | CC+               | A,T         | ●      |
| COL1A1  | rs72648326   | Variant not found | A           | ○      |
| COL1A1  | rs72645321   | Variant not found | T           | ○      |
| COL1A1  | rs397514672  | Variant not found | A           | ○      |
| COL1A1  | rs72645347   | GG+               | A           | ●      |
| COL1A1  | rs193922151  | II+               |             | ●      |
| COL1A1  | rs2586488    | GG+               | G           | ●      |
| COL1A1  | rs193922145  | GG+               | A           | ●      |
| COL1A1  | rs2141279    | Variant not found | C           | ○      |
| COL1A1  | rs193922148  | II+               |             | ●      |
| COL1A1  | rs1007086    | Variant not found | G           | ○      |
| COL1A1  | rs72645323   | Variant not found | T           | ○      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL1A1 | rs1800215    | Variant not found | T           | ○      |
| COL1A1 | rs72645366   | Variant not found | A,C         | ○      |
| COL1A1 | rs72645318   | Variant not found | A           | ○      |
| COL1A1 | rs193922147  | CC+               | A,G         | ●      |
| COL1A1 | rs72648363   | Variant not found | G           | ○      |
| COL1A1 | rs2075554    | Variant not found | A,C         | ○      |
| COL1A1 | rs139955975  | CC+               | T           | ●      |
| COL1A1 | rs67507747   | CC+               | A,G,T       | ●      |
| COL1A1 | rs72645334   | Variant not found | T           | ○      |
| COL1A1 | rs193922140  | CC+               | G           | ●      |
| COL1A1 | rs193922138  | Variant not found | C           | ○      |
| COL1A1 | rs1064796415 | Variant not found |             | ○      |
| COL1A1 | rs193922141  | Variant not found |             | ○      |
| COL1A1 | rs67815019   | Variant not found | A,T         | ○      |
| COL1A1 | rs72651653   | Variant not found | A           | ○      |
| COL1A1 | rs1057518221 | Variant not found | T           | ○      |
| COL1A1 | rs193922158  | TT+               | C           | ●      |
| COL1A1 | rs193922157  | CC+               | A,T         | ●      |
| COL1A1 | rs72651622   | Variant not found | G,T         | ○      |
| COL1A1 | rs67693970   | Variant not found | G,T         | ○      |
| COL1A1 | rs144751329  | CC+               | A,T         | ●      |
| COL1A1 | rs370865189  | GG+               | A,C,T       | ●      |
| COL1A1 | rs72645331   | Variant not found | A           | ○      |
| COL1A1 | rs72651651   | Variant not found | G,T         | ○      |
| COL1A1 | rs72651645   | Variant not found | T           | ○      |
| COL1A1 | rs193922152  | TT+               | C           | ●      |
| COL1A1 | rs72645320   | Variant not found | T           | ○      |
| COL1A1 | rs193922153  | GG+               | A           | ●      |
| COL1A1 | rs1800012    | GT-               | A           | ●      |
| COL1A1 | rs72645337   | Variant not found | G           | ○      |
| COL1A1 | rs66490707   | Variant not found | G,T         | ○      |
| COL1A1 | rs1061237    | Variant not found | C,G,T       | ○      |
| COL1A1 | rs72651657   | Variant not found | A           | ○      |
| COL1A1 | rs1057518930 | Variant not found | G           | ○      |
| COL1A1 | rs72648322   | Variant not found | A,T         | ○      |
| COL1A1 | rs34940368   | Variant not found | A,C         | ○      |
| COL1A1 | rs193922149  | II+               |             | ●      |
| COL1A1 | rs2075559    | Variant not found | A,C,T       | ○      |
| COL1A1 | rs1061970    | Variant not found | G           | ○      |
| COL1A1 | rs2075555    | Variant not found | A,G         | ○      |
| COL1A1 | rs72648337   | Variant not found | T           | ○      |
| COL1A1 | rs67771061   | Variant not found | A,G,T       | ○      |
| COL1A1 | rs72648356   | Variant not found | T           | ○      |
| COL1A1 | rs72648333   | Variant not found | A           | ○      |
| COL1A1 | rs2269336    | CC-               | A,C         | ●      |
| COL1A1 | rs2249492    | Variant not found | G,T         | ○      |
| COL1A1 | rs193922143  | II+               |             | ●      |
| COL1A1 | rs66721653   | Variant not found | A,T         | ○      |
| COL1A1 | rs67828806   | Variant not found | G,T         | ○      |
| COL1A1 | rs66929517   | Variant not found | A,G         | ○      |
| COL1A1 | rs72651661   | Variant not found | T           | ○      |
| COL1A1 | rs72653136   | Variant not found | T           | ○      |
| COL1A1 | rs72645328   | CC+               | G,T         | ●      |
| COL1A1 | rs66523073   | Variant not found | T           | ○      |
| COL1A1 | rs2586494    | Variant not found | C           | ○      |
| COL1A1 | rs67368147   | Variant not found | A,T         | ○      |
| COL1A1 | rs72651614   | Variant not found | A,C         | ○      |
| COL1A1 | rs66527965   | Variant not found | A,T         | ○      |
| COL1A1 | rs1057524547 | Variant not found | T           | ○      |
| COL1A1 | rs72653131   | Variant not found | T           | ○      |
| COL1A1 | rs72651642   | Variant not found | A           | ○      |
| COL1A1 | rs398122835  | Variant not found |             | ○      |
| COL1A1 | rs67445413   | Variant not found | A,T         | ○      |
| COL1A1 | rs72653137   | Variant not found | T           | ○      |
| COL1A1 | rs66555264   | Variant not found | A,T         | ○      |
| COL1A1 | rs72645356   | Variant not found | T           | ○      |
| COL1A2 | rs1801182    | TT+               | C           | ●      |
| COL1A2 | rs1064794058 | Variant not found | T           | ○      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL1A2 | rs139446305  | GG+               | A           | ●      |
| COL1A2 | rs121912902  | Variant not found | A           | ○      |
| COL1A2 | rs906553840  | Variant not found | A,C         | ○      |
| COL1A2 | rs72658200   | Variant not found | A           | ○      |
| COL1A2 | rs1057517953 | Variant not found | T           | ○      |
| COL1A2 | rs68132885   | Variant not found | A,C         | ○      |
| COL1A2 | rs121912910  | Variant not found | A           | ○      |
| COL1A2 | rs193922167  | Variant not found |             | ○      |
| COL1A2 | rs1057524873 | Variant not found | A,T         | ○      |
| COL1A2 | rs121912907  | Variant not found | T           | ○      |
| COL1A2 | rs1057516036 | Variant not found | A           | ○      |
| COL1A2 | rs72659343   | Variant not found | A,T         | ○      |
| COL1A2 | rs267606742  | Variant not found | A           | ○      |
| COL1A2 | rs72659319   | GG+               | A,C         | ●      |
| COL1A2 | rs72658152   | Variant not found | A           | ○      |
| COL1A2 | rs72658137   | Variant not found | A           | ○      |
| COL1A2 | rs1064793527 | Variant not found |             | ○      |
| COL1A2 | rs768171831  | CC+               | T           | ●      |
| COL1A2 | rs72656402   | Variant not found | T           | ○      |
| COL1A2 | rs67162110   | Variant not found | A,C         | ○      |
| COL1A2 | rs67865220   | Variant not found | A,C,T       | ○      |
| COL1A2 | rs121912900  | Variant not found | A           | ○      |
| COL1A2 | rs1057524847 | Variant not found | A           | ○      |
| COL1A2 | rs72656386   | Variant not found | A           | ○      |
| COL1A2 | rs1085307707 | Variant not found | A           | ○      |
| COL1A2 | rs267606741  | Variant not found | A           | ○      |
| COL1A2 | rs3736638    | CC+               | A           | ●      |
| COL1A2 | rs72658103   | Variant not found | A,T         | ○      |
| COL1A2 | rs1800238    | Variant not found | T           | ○      |
| COL1A2 | rs193922159  | CC+               | A,G         | ●      |
| COL1A2 | rs67609234   | Variant not found | A,T         | ○      |
| COL1A2 | rs886041749  | Variant not found | A           | ○      |
| COL1A2 | rs42524      | CC+               | G           | ●      |
| COL1A2 | rs797044949  | GG+               | T           | ●      |
| COL1A2 | rs72658176   | GG+               | A           | ●      |
| COL1A2 | rs121912904  | Variant not found | A           | ○      |
| COL1A2 | rs72658185   | Variant not found | A           | ○      |
| COL1A2 | rs72659325   | Variant not found | C,T         | ○      |
| COL1A2 | rs1064796419 | Variant not found | A           | ○      |
| COL1A2 | rs72656355   | AA+               | G           | ●      |
| COL1A2 | rs121912901  | Variant not found | A           | ○      |
| COL1A2 | rs1057516053 | Variant not found | A           | ○      |
| COL1A2 | rs72656357   | Variant not found | C           | ○      |
| COL1A2 | rs1057518136 | Variant not found |             | ○      |
| COL1A2 | rs193922165  | GG+               | A           | ●      |
| COL1A2 | rs928361235  | Variant not found | C           | ○      |
| COL1A2 | rs1801182    | TT+               | C           | ●      |
| COL1A2 | rs121912906  | Variant not found | T           | ○      |
| COL1A2 | rs1057518967 | Variant not found | A           | ○      |
| COL1A2 | rs1064796593 | Variant not found | A           | ○      |
| COL1A2 | rs72656396   | Variant not found | A,T         | ○      |
| COL1A2 | rs1085307477 | Variant not found | A           | ○      |
| COL1A2 | rs2621215    | Variant not found | A,T         | ○      |
| COL1A2 | rs886039689  | Variant not found | A           | ○      |
| COL1A2 | rs67768540   | Variant not found | A,C,T       | ○      |
| COL1A2 | rs72658117   | Variant not found | T           | ○      |
| COL1A2 | rs121912911  | Variant not found | C           | ○      |
| COL1A2 | rs42517      | Variant not found | G           | ○      |
| COL1A2 | rs66820119   | Variant not found | A,C,T       | ○      |
| COL1A2 | rs72656354   | Variant not found | G           | ○      |
| COL1A2 | rs121912903  | Variant not found | T           | ○      |
| COL1A2 | rs72656370   | Variant not found | A           | ○      |
| COL1A2 | rs441051     | CT+               | C           | ●      |
| COL1A2 | rs121912912  | Variant not found | A,C         | ○      |
| COL1A2 | rs72658143   | Variant not found | A           | ○      |
| COL1A2 | rs193922173  | GG+               | A           | ●      |
| COL1A2 | rs72658119   | Variant not found | C           | ○      |
| COL1A2 | rs121912909  | Variant not found | A           | ○      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| COL1A2  | rs794727470  | GG+               | C           | ●      |
| COL1A2  | rs121912908  | Variant not found | A,C         | ○      |
| COL1A2  | rs121912905  | Variant not found | T           | ○      |
| COL1A2  | rs72659324   | Variant not found | C           | ○      |
| COL1A2  | rs72658163   | Variant not found | A,C         | ○      |
| COL1A2  | rs193922168  | GG+               | C           | ●      |
| COL1A2  | rs193922162  | GG+               | A           | ●      |
| COL1A2  | rs193922166  | Variant not found |             | ○      |
| COL1A2  | rs72659338   | Variant not found | A           | ○      |
| COL1A2  | rs886041426  | Variant not found |             | ○      |
| COL1A2  | rs72656387   | Variant not found | A           | ○      |
| COL1A2  | rs67729041   | Variant not found | A,T         | ○      |
| COL1A2  | rs67707918   | Variant not found | A,T         | ○      |
| COL1A2  | rs786205587  | GG+               | A           | ●      |
| COL1A2  | rs72658161   | GG+               | A           | ●      |
| COL1A2  | rs72658151   | GG+               | A           | ●      |
| COL1A2  | rs794727669  | GG+               | T           | ●      |
| COL1A2  | rs797044459  | Variant not found | C           | ○      |
| COL1A2  | rs886042129  | Variant not found | T           | ○      |
| COL1A2  | rs72658154   | GG+               | A           | ●      |
| COL1A2  | rs72658150   | Variant not found | T           | ○      |
| COL1A2  | rs72659310   | Variant not found | A           | ○      |
| COL1A2  | rs886043796  | Variant not found | A           | ○      |
| COL27A1 | rs1249719    | GG+               | A           | ●      |
| COL27A1 | rs7868992    | AA+               | A           | ●      |
| COL27A1 | rs140950220  | GG+               | C           | ●      |
| COL27A1 | rs753085     | Variant not found | A           | ○      |
| COL27A1 | rs946053     | GG+               | G           | ●      |
| COL27A1 | rs4143245    | Variant not found | C           | ○      |
| COL27A1 | rs1249744    | Variant not found | G           | ○      |
| COL2A1  | rs121912890  | Variant not found | T           | ○      |
| COL2A1  | rs1057524114 | Variant not found | A           | ○      |
| COL2A1  | rs794727438  | CC+               | A           | ●      |
| COL2A1  | rs794727261  | GG+               | T           | ●      |
| COL2A1  | rs121912878  | Variant not found | T           | ○      |
| COL2A1  | rs1635531    | Variant not found | C           | ○      |
| COL2A1  | rs121912876  | Variant not found | A           | ○      |
| COL2A1  | rs1064793352 | Variant not found | G           | ○      |
| COL2A1  | rs121912875  | Variant not found | A           | ○      |
| COL2A1  | rs1064796660 | Variant not found | T           | ○      |
| COL2A1  | rs886041843  | Variant not found | A           | ○      |
| COL2A1  | rs794727462  | CC+               | T           | ●      |
| COL2A1  | rs765795867  | Variant not found | A,T         | ○      |
| COL2A1  | rs1064797167 | Variant not found | G           | ○      |
| COL2A1  | rs587776847  | Variant not found |             | ○      |
| COL2A1  | rs1064794264 | Variant not found | T           | ○      |
| COL2A1  | rs794727026  | Variant not found | T           | ○      |
| COL2A1  | rs794727472  | CC+               | A,T         | ●      |
| COL2A1  | rs2070739    | Variant not found | T           | ○      |
| COL2A1  | rs138498898  | Variant not found | A           | ○      |
| COL2A1  | rs121912869  | Variant not found | A           | ○      |
| COL2A1  | rs794727339  | Variant not found | G,T         | ○      |
| COL2A1  | rs1057518908 | Variant not found | T           | ○      |
| COL2A1  | rs1057524696 | Variant not found | G           | ○      |
| COL2A1  | rs3803183    | Variant not found | A           | ○      |
| COL2A1  | rs121912879  | Variant not found | G           | ○      |
| COL2A1  | rs121912872  | Variant not found | T           | ○      |
| COL2A1  | rs121912887  | Variant not found | G,T         | ○      |
| COL2A1  | rs1057518911 | Variant not found | G           | ○      |
| COL2A1  | rs121912897  | Variant not found | A,T         | ○      |
| COL2A1  | rs121912898  | Variant not found | T           | ○      |
| COL2A1  | rs121912865  | Variant not found | A           | ○      |
| COL2A1  | rs121912867  | Variant not found | T           | ○      |
| COL2A1  | rs1793953    | Variant not found | A           | ○      |
| COL2A1  | rs121912888  | Variant not found | T           | ○      |
| COL2A1  | rs121912884  | GG+               | A           | ●      |
| COL2A1  | rs794727202  | CC+               | T           | ●      |
| COL2A1  | rs121912877  | CC+               | T           | ●      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL2A1 | rs1793933    | AC-               | T           | ●      |
| COL2A1 | rs886041429  | Variant not found | A           | ○      |
| COL2A1 | rs886041713  | Variant not found | A,T         | ○      |
| COL2A1 | rs121912881  | Variant not found | A           | ○      |
| COL2A1 | rs121912874  | GG+               | A           | ●      |
| COL2A1 | rs121912882  | GG+               | A           | ●      |
| COL2A1 | rs121912893  | CC-               | A,T         | ●      |
| COL2A1 | rs794727596  | CC+               | A           | ●      |
| COL2A1 | rs1034762    | Variant not found | C           | ○      |
| COL2A1 | rs121912892  | Variant not found | T           | ○      |
| COL2A1 | rs1085307657 | Variant not found | G           | ○      |
| COL2A1 | rs1085307608 | Variant not found | A           | ○      |
| COL2A1 | rs121912871  | Variant not found | T           | ○      |
| COL2A1 | rs121912885  | GG+               | A,T         | ●      |
| COL2A1 | rs121912866  | GG+               | A           | ●      |
| COL2A1 | rs1057524602 | Variant not found | A           | ○      |
| COL2A1 | rs794727607  | Variant not found | A           | ○      |
| COL2A1 | rs727503882  | CC+               | G,T         | ●      |
| COL2A1 | rs121912880  | CC+               | A,T         | ●      |
| COL2A1 | rs1057521852 | Variant not found | C,G         | ○      |
| COL2A1 | rs121912868  | Variant not found | T           | ○      |
| COL2A1 | rs794727684  | CC+               | T           | ●      |
| COL2A1 | rs1064794958 | Variant not found | T           | ○      |
| COL2A1 | rs121912899  | Variant not found | A           | ○      |
| COL2A1 | rs1057518157 | Variant not found | A           | ○      |
| COL2A1 | rs121912896  | Variant not found | T           | ○      |
| COL2A1 | rs121912889  | Variant not found | C           | ○      |
| COL2A1 | rs121912894  | Variant not found | T           | ○      |
| COL2A1 | rs864621973  | Variant not found | A,T         | ○      |
| COL2A1 | rs60542319   | Variant not found | A           | ○      |
| COL2A1 | rs121912895  | Variant not found | C           | ○      |
| COL2A1 | rs786205477  | CC+               | A           | ●      |
| COL2A1 | rs886039543  | Variant not found |             | ○      |
| COL2A1 | rs121912886  | GG+               | A,T         | ●      |
| COL2A1 | rs794727185  | Variant not found |             | ○      |
| COL2A1 | rs121912873  | II+               |             | ●      |
| COL2A1 | rs1635530    | Variant not found | C           | ○      |
| COL2A1 | rs794727225  | II+               |             | ●      |
| COL2A1 | rs121912883  | Variant not found | G           | ○      |
| COL2A1 | rs1635529    | Variant not found | G           | ○      |
| COL2A1 | rs886039542  | Variant not found | T           | ○      |
| COL2A1 | rs121912870  | CC+               | T           | ●      |
| COL2A1 | rs1064796332 | Variant not found | T           | ○      |
| COL2A1 | rs2276455    | Variant not found | A           | ○      |
| COL2A1 | rs387906558  | Variant not found | T           | ○      |
| COL2A1 | rs794727377  | TT+               | G           | ●      |
| COL2A1 | rs794727546  | CC+               | G           | ●      |
| COL2A1 | rs121912864  | Variant not found | T           | ○      |
| COL2A1 | rs794727533  | GG+               | A,T         | ●      |
| COL2A1 | rs121912891  | Variant not found | T           | ○      |
| COL2A1 | rs869312907  | CC+               | T           | ●      |
| COL2A1 | rs672601354  | Variant not found |             | ○      |
| COL2A1 | rs748459670  | GG+               | A,C         | ●      |
| COL2A1 | rs760093841  | Variant not found | A,G,T       | ○      |
| COL2A1 | rs672601355  | Variant not found |             | ○      |
| COL2A1 | rs3737548    | Variant not found | A,T         | ○      |
| COL2A1 | rs398123628  | II+               |             | ●      |
| COL3A1 | rs1516446    | Variant not found | G           | ○      |
| COL3A1 | rs1800255    | AG+               | A           | ●      |
| COL3A1 | rs121912920  | GG+               | A           | ●      |
| COL3A1 | rs121912918  | GG+               | A,T         | ●      |
| COL3A1 | rs121912929  | Variant not found | A,T         | ○      |
| COL3A1 | rs121912924  | GG+               | A           | ●      |
| COL3A1 | rs121912925  | GG+               | A,T         | ●      |
| COL3A1 | rs587779449  | GG+               | A,C         | ●      |
| COL3A1 | rs587779456  | GG+               | A           | ●      |
| COL3A1 | rs121912923  | GG+               | A,C,T       | ●      |
| COL3A1 | rs1060500187 | Variant not found | A           | ○      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL3A1 | rs111929073  | GG+               | A,C,T       | ●      |
| COL3A1 | rs267599120  | GG+               | A,C         | ●      |
| COL3A1 | rs1057521106 | CC+               | A,T         | ●      |
| COL3A1 | rs1057523593 | AA+               | C           | ●      |
| COL3A1 | rs113871730  | GG+               | A           | ●      |
| COL3A1 | rs397509373  | GG+               | A           | ●      |
| COL3A1 | rs3106796    | Variant not found | G           | ○      |
| COL3A1 | rs1057521930 | GG+               | A,T         | ●      |
| COL3A1 | rs1085307964 | GG+               | T           | ●      |
| COL3A1 | rs1085307896 | GG+               | A           | ●      |
| COL3A1 | rs587779446  | GG+               | A           | ●      |
| COL3A1 | rs587779438  | GG+               | A           | ●      |
| COL3A1 | rs121912919  | GG+               | A           | ●      |
| COL3A1 | rs113485686  | GG+               | A           | ●      |
| COL3A1 | rs587779428  | GG+               | T           | ●      |
| COL3A1 | rs587779439  | GG+               | A           | ●      |
| COL3A1 | rs121912916  | GG+               | A           | ●      |
| COL3A1 | rs193922176  | GG+               | C           | ●      |
| COL3A1 | rs587779448  | GG+               | A           | ●      |
| COL3A1 | rs587779459  | GG+               | A,C         | ●      |
| COL3A1 | rs1516446    | Variant not found | G           | ○      |
| COL3A1 | rs587779440  | GG+               | A,T         | ●      |
| COL3A1 | rs112371422  | CC+               | G,T         | ●      |
| COL3A1 | rs587779437  | GG+               | A           | ●      |
| COL3A1 | rs587779454  | GG+               | A,T         | ●      |
| COL3A1 | rs587779426  | TT+               | A,C         | ●      |
| COL3A1 | rs1060500204 | Variant not found | C           | ○      |
| COL3A1 | rs587779417  | GG+               | A           | ●      |
| COL3A1 | rs121912915  | GG+               | T           | ●      |
| COL3A1 | rs121912913  | GG+               | A,T         | ●      |
| COL3A1 | rs587779457  | GG+               | A,T         | ●      |
| COL3A1 | rs1060500193 | GG+               | A           | ●      |
| COL3A1 | rs1057518075 | CC+               | T           | ●      |
| COL3A1 | rs587779444  | GG+               | A,C,T       | ●      |
| COL3A1 | rs587779434  | GG+               | A           | ●      |
| COL3A1 | rs587779447  | GG+               | A           | ●      |
| COL3A1 | rs121912926  | GG+               | A,C,T       | ●      |
| COL3A1 | rs587779422  | GG+               | A           | ●      |
| COL3A1 | rs587779418  | GG+               | A           | ●      |
| COL3A1 | rs553203474  | GG+               | A           | ●      |
| COL3A1 | rs397509372  | GG+               | A,T         | ●      |
| COL3A1 | rs587779443  | GG+               | A,T         | ●      |
| COL3A1 | rs1064796468 | Variant not found | A           | ○      |
| COL3A1 | rs397509371  | GG+               | T           | ●      |
| COL3A1 | rs121912921  | GG+               | A           | ●      |
| COL3A1 | rs1060500194 | Variant not found | C           | ○      |
| COL3A1 | rs397509377  | DD+               | T           | ●      |
| COL3A1 | rs587779436  | GG+               | C           | ●      |
| COL3A1 | rs1057518372 | GG+               | A           | ●      |
| COL3A1 | rs121912928  | GG+               | A           | ●      |
| COL3A1 | rs397509369  | GG+               | A           | ●      |
| COL3A1 | rs587779460  | GG+               | A           | ●      |
| COL3A1 | rs587779445  | GG+               | T           | ●      |
| COL3A1 | rs1060500203 | Variant not found | T           | ○      |
| COL3A1 | rs121912917  | GG+               | A,T         | ●      |
| COL3A1 | rs397509370  | GG+               | A,T         | ●      |
| COL3A1 | rs1060500200 | Variant not found |             | ○      |
| COL3A1 | rs387906557  | GG+               | C           | ●      |
| COL3A1 | rs587779458  | GG+               | A,T         | ●      |
| COL3A1 | rs1060500199 | II+               |             | ●      |
| COL3A1 | rs121912927  | GG+               | A,T         | ●      |
| COL3A1 | rs1800255    | AG+               | A           | ●      |
| COL3A1 | rs121912922  | GG+               | A,T         | ●      |
| COL3A1 | rs112456072  | GG+               | A           | ●      |
| COL3A1 | rs111505097  | GG+               | A,T         | ●      |
| COL3A1 | rs587779453  | AA+               | C           | ●      |
| COL3A1 | rs1064796733 | Variant not found | C           | ○      |
| COL3A1 | rs121912914  | GG+               | A,T         | ●      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL3A1 | rs587779429  | TT+               | C           | ●      |
| COL3A1 | rs587779452  | GG+               | T           | ●      |
| COL3A1 | rs397509375  | TT+               | A,C         | ●      |
| COL3A1 | rs587779450  | GG+               | A,T         | ●      |
| COL3A1 | rs587779432  | GG+               | A           | ●      |
| COL3A1 | rs587779421  | GG+               | A           | ●      |
| COL3A1 | rs587779427  | GG+               | T           | ●      |
| COL3A1 | rs587779431  | GG+               | A,T         | ●      |
| COL3A1 | rs587779433  | GG+               | A,C         | ●      |
| COL3A1 | rs587779451  | II+               |             | ●      |
| COL3A1 | rs587779420  | GG+               | A,C         | ●      |
| COL3A1 | rs587779423  | TT+               | A,C         | ●      |
| COL3A1 | rs587779416  | GG+               | T           | ●      |
| COL3A1 | rs587779441  | GG+               | A,C         | ●      |
| COL3A1 | rs397509376  | GG+               | A,T         | ●      |
| COL3A1 | rs587779424  | GG+               | A           | ●      |
| COL3A1 | rs587779419  | GG+               | A           | ●      |
| COL3A1 | rs587779455  | II+               |             | ●      |
| COL3A1 | rs587779435  | GG+               | A,C         | ●      |
| COL3A1 | rs587779442  | GG+               | C           | ●      |
| COL4A3 | rs869025324  | Variant not found | A           | ○      |
| COL4A3 | rs200672668  | Variant not found | A           | ○      |
| COL4A3 | rs200287952  | Variant not found | A           | ○      |
| COL4A3 | rs1085307955 | Variant not found | A           | ○      |
| COL4A3 | rs35212277   | Variant not found | A           | ○      |
| COL4A3 | rs1057519377 | Variant not found | T           | ○      |
| COL4A3 | rs759739044  | GG+               | A,T         | ●      |
| COL4A3 | rs375040636  | Variant not found | A           | ○      |
| COL4A3 | rs10178458   | CC+               | A,C         | ●      |
| COL4A3 | rs1060499654 | Variant not found | T           | ○      |
| COL4A3 | rs760462252  | Variant not found | T           | ○      |
| COL4A3 | rs6436669    | Variant not found | G           | ○      |
| COL4A3 | rs869025327  | Variant not found | A           | ○      |
| COL4A3 | rs34505188   | GG+               | A           | ●      |
| COL4A3 | rs1057519376 | Variant not found | C           | ○      |
| COL4A3 | rs201697532  | CC+               | T           | ●      |
| COL4A3 | rs121912827  | GG+               | A,T         | ●      |
| COL4A3 | rs121912826  | Variant not found | A           | ○      |
| COL4A3 | rs869025328  | Variant not found | A,T         | ○      |
| COL4A3 | rs121912824  | CC+               | T           | ●      |
| COL4A3 | rs7606754    | AG+               | G           | ●      |
| COL4A3 | rs778034451  | Variant not found | A           | ○      |
| COL4A3 | rs267606745  | Variant not found | A           | ○      |
| COL4A3 | rs765661521  | Variant not found | A,C         | ○      |
| COL4A3 | rs1060499696 | Variant not found | A           | ○      |
| COL4A3 | rs11677877   | AA+               | G           | ●      |
| COL4A3 | rs121912825  | CC+               | G,T         | ●      |
| COL4A3 | rs869025326  | Variant not found | C           | ○      |
| COL4A3 | rs869025325  | Variant not found | T           | ○      |
| COL4A4 | rs121912862  | Variant not found | T           | ○      |
| COL4A4 | rs869025329  | Variant not found | G           | ○      |
| COL4A4 | rs121912860  | Variant not found | T           | ○      |
| COL4A4 | rs121912859  | Variant not found | T           | ○      |
| COL4A4 | rs786205640  | II+               |             | ●      |
| COL4A4 | rs370474706  | Variant not found | A,T         | ○      |
| COL4A4 | rs569681869  | Variant not found | G           | ○      |
| COL4A4 | rs7558081    | Variant not found | T           | ○      |
| COL4A4 | rs2229813    | CT+               | G,T         | ●      |
| COL4A4 | rs1064796549 | Variant not found |             | ○      |
| COL4A4 | rs786205548  | TT+               | A           | ●      |
| COL4A4 | rs2272205    | TT+               | C           | ●      |
| COL4A4 | rs374815903  | Variant not found | A,T         | ○      |
| COL4A4 | rs121912861  | Variant not found | A           | ○      |
| COL4A4 | rs121912863  | Variant not found | A           | ○      |
| COL4A4 | rs121912858  | Variant not found | T           | ○      |
| COL4A4 | rs2228555    | Variant not found | C           | ○      |
| COL4A5 | rs104886044  | Variant not found |             | ○      |
| COL4A5 | rs104886045  | Variant not found |             | ○      |

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| COL4A5 | rs104886055 | Variant not found | C           | ○      |
| COL4A5 | rs104886062 | Variant not found | C,T         | ○      |
| COL4A5 | rs104886079 | Variant not found | A           | ○      |
| COL4A5 | rs104886076 | Variant not found | C           | ○      |
| COL4A5 | rs104886065 | Variant not found |             | ○      |
| COL4A5 | rs104886073 | Variant not found | C           | ○      |
| COL4A5 | rs104886112 | Variant not found | A           | ○      |
| COL4A5 | rs104886071 | Variant not found | G,T         | ○      |
| COL4A5 | rs104886110 | Variant not found | A           | ○      |
| COL4A5 | rs104886118 | Variant not found | A           | ○      |
| COL4A5 | rs104886120 | Variant not found | T           | ○      |
| COL4A5 | rs104886132 | Variant not found | A           | ○      |
| COL4A5 | rs104886133 | Variant not found | T           | ○      |
| COL4A5 | rs104886108 | Variant not found | C           | ○      |
| COL4A5 | rs104886092 | Variant not found | T           | ○      |
| COL4A5 | rs104886122 | Variant not found | A           | ○      |
| COL4A5 | rs104886123 | Variant not found |             | ○      |
| COL4A5 | rs104886138 | Variant not found | A           | ○      |
| COL4A5 | rs104886143 | Variant not found | C           | ○      |
| COL4A5 | rs104886142 | GG+               | A           | ●      |
| COL4A5 | rs104886137 | Variant not found | C           | ○      |
| COL4A5 | rs104886081 | Variant not found | T           | ○      |
| COL4A5 | rs104886060 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886070 | Variant not found | A           | ○      |
| COL4A5 | rs104886047 | Variant not found | C,G         | ○      |
| COL4A5 | rs104886053 | Variant not found |             | ○      |
| COL4A5 | rs104886114 | Variant not found | A           | ○      |
| COL4A5 | rs104886121 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886094 | Variant not found | T           | ○      |
| COL4A5 | rs104886116 | Variant not found | A           | ○      |
| COL4A5 | rs104886080 | Variant not found | A           | ○      |
| COL4A5 | rs104886061 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886119 | Variant not found | A           | ○      |
| COL4A5 | rs104886078 | Variant not found | T           | ○      |
| COL4A5 | rs104886058 | Variant not found |             | ○      |
| COL4A5 | rs104886077 | Variant not found |             | ○      |
| COL4A5 | rs104886124 | Variant not found |             | ○      |
| COL4A5 | rs104886099 | Variant not found | T           | ○      |
| COL4A5 | rs104886085 | Variant not found | C           | ○      |
| COL4A5 | rs104886115 | Variant not found | A           | ○      |
| COL4A5 | rs104886063 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886059 | Variant not found | T           | ○      |
| COL4A5 | rs104886066 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886050 | Variant not found | G           | ○      |
| COL4A5 | rs104886046 | Variant not found |             | ○      |
| COL4A5 | rs104886100 | Variant not found | T           | ○      |
| COL4A5 | rs104886083 | Variant not found | A           | ○      |
| COL4A5 | rs104886067 | Variant not found | A           | ○      |
| COL4A5 | rs104886084 | Variant not found | A           | ○      |
| COL4A5 | rs104886088 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886075 | Variant not found | A           | ○      |
| COL4A5 | rs104886103 | Variant not found | A           | ○      |
| COL4A5 | rs104886068 | Variant not found | A           | ○      |
| COL4A5 | rs104886054 | Variant not found |             | ○      |
| COL4A5 | rs104886074 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886093 | Variant not found | T           | ○      |
| COL4A5 | rs104886082 | Variant not found | A           | ○      |
| COL4A5 | rs104886117 | Variant not found | A           | ○      |
| COL4A5 | rs104886095 | Variant not found |             | ○      |
| COL4A5 | rs104886141 | Variant not found | A,T         | ○      |
| COL4A5 | rs104886126 | Variant not found | C           | ○      |
| COL4A5 | rs104886042 | Variant not found |             | ○      |
| COL4A5 | rs104886125 | Variant not found | A           | ○      |
| COL4A5 | rs104886091 | Variant not found | A           | ○      |
| COL4A5 | rs104886043 | Variant not found | A           | ○      |
| COL4A5 | rs104886102 | Variant not found | T           | ○      |
| COL4A5 | rs104886048 | Variant not found | A           | ○      |
| COL4A5 | rs104886072 | Variant not found |             | ○      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL4A5 | rs104886131  | Variant not found | A           | ○      |
| COL4A5 | rs104886408  | Variant not found |             | ○      |
| COL4A5 | rs104886104  | Variant not found |             | ○      |
| COL4A5 | rs104886135  | Variant not found | C           | ○      |
| COL4A5 | rs104886049  | Variant not found | T           | ○      |
| COL4A5 | rs104886056  | Variant not found | C,T         | ○      |
| COL4A5 | rs104886097  | Variant not found | A           | ○      |
| COL4A5 | rs104886051  | Variant not found | T           | ○      |
| COL4A5 | rs104886109  | Variant not found |             | ○      |
| COL4A5 | rs104886144  | Variant not found | A           | ○      |
| COL4A5 | rs104886098  | Variant not found | A           | ○      |
| COL4A5 | rs104886111  | Variant not found | A           | ○      |
| COL4A5 | rs104886050  | Variant not found | G           | ○      |
| COL4A5 | rs104886086  | Variant not found | A           | ○      |
| COL4A5 | rs104886052  | Variant not found | A,C         | ○      |
| COL4A5 | rs104886134  | Variant not found | A,C,T       | ○      |
| COL4A5 | rs104886130  | Variant not found | A           | ○      |
| COL4A5 | rs104886101  | Variant not found | A           | ○      |
| COL4A5 | rs104886145  | Variant not found | A           | ○      |
| COL4A5 | rs104886127  | Variant not found | T           | ○      |
| COL4A5 | rs104886113  | Variant not found |             | ○      |
| COL4A5 | rs104886128  | Variant not found |             | ○      |
| COL4A5 | rs104886139  | Variant not found | A           | ○      |
| COL4A5 | rs281874765  | Variant not found | C           | ○      |
| COL4A5 | rs104886096  | GG+               | A           | ●      |
| COL4A5 | rs104886069  | Variant not found | C           | ○      |
| COL4A5 | rs104886136  | Variant not found | A           | ○      |
| COL4A5 | rs104886049  | Variant not found | T           | ○      |
| COL4A5 | rs104886129  | Variant not found | C           | ○      |
| COL4A5 | rs104886057  | Variant not found | A           | ○      |
| COL4A5 | rs104886140  | Variant not found | A,T         | ○      |
| COL4A5 | rs104886105  | Variant not found | A           | ○      |
| COL4A5 | rs104886107  | Variant not found | A           | ○      |
| COL4A5 | rs104886146  | Variant not found | A           | ○      |
| COL4A6 | rs779748859  | Variant not found | T           | ○      |
| COL4A6 | rs769211787  | AA+               | C           | ●      |
| COL5A1 | rs121912933  | Variant not found | T           | ○      |
| COL5A1 | rs10628678   | Variant not found |             | ○      |
| COL5A1 | rs1060502255 | Variant not found |             | ○      |
| COL5A1 | rs1060502256 | Variant not found |             | ○      |
| COL5A1 | rs7044529    | TT+               | T           | ●      |
| COL5A1 | rs786205100  | Variant not found |             | ○      |
| COL5A1 | rs863223469  | DD+               | C           | ●      |
| COL5A1 | rs12722      | CC+               | T           | ●      |
| COL5A1 | rs764446683  | CC+               | A,G,T       | ●      |
| COL5A1 | rs1057518653 | Variant not found |             | ○      |
| COL5A1 | rs1060502248 | Variant not found | A           | ○      |
| COL5A1 | rs769752636  | Variant not found | A,T         | ○      |
| COL5A1 | rs863223453  | GG+               | A,C         | ●      |
| COL5A1 | rs765079080  | TT+               | G           | ●      |
| COL5A1 | rs1064796684 | Variant not found | T           | ○      |
| COL5A1 | rs786205101  | Variant not found | G           | ○      |
| COL5A1 | rs863223444  | TT+               | A           | ●      |
| COL5A1 | rs777625241  | CC+               | T           | ●      |
| COL5A1 | rs863223445  | GG+               | A           | ●      |
| COL5A1 | rs863223470  | DD+               | G           | ●      |
| COL5A1 | rs1057518004 | Variant not found | T           | ○      |
| COL5A1 | rs863223454  | CC+               | T           | ●      |
| COL5A1 | rs786205102  | Variant not found |             | ○      |
| COL5A1 | rs886043641  | Variant not found | T           | ○      |
| COL5A1 | rs80338764   | GG+               | C           | ●      |
| COL5A1 | rs786200922  | Variant not found | T           | ○      |
| COL5A1 | rs1060502259 | Variant not found |             | ○      |
| COL5A1 | rs886042045  | Variant not found | T           | ○      |
| COL5A1 | rs374020067  | CC+               | T           | ●      |
| COL5A1 | rs794727114  | GG+               | C           | ●      |
| COL5A1 | rs863223471  | Variant not found | T           | ○      |
| COL5A1 | rs863223448  | GG+               | C           | ●      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| COL5A1 | rs863223473  | DD+               | C           | ●      |
| COL5A1 | rs564375308  | CC+               | T           | ●      |
| COL5A1 | rs863223475  | DD+               | T           | ●      |
| COL5A1 | rs1057518871 | Variant not found |             | ○      |
| COL5A1 | rs1057519596 | Variant not found | C           | ○      |
| COL5A1 | rs863223452  | GG+               | A           | ●      |
| COL5A1 | rs121912932  | Variant not found | A           | ○      |
| COL5A1 | rs113452150  | GG+               | A           | ●      |
| COL5A1 | rs7874142    | AG+               | A           | ●      |
| COL5A1 | rs863223458  | GG+               | A           | ●      |
| COL5A1 | rs1085307855 | Variant not found |             | ○      |
| COL5A1 | rs794727760  | II+               |             | ●      |
| COL5A1 | rs1060502258 | Variant not found | T           | ○      |
| COL5A1 | rs863223472  | Variant not found |             | ○      |
| COL5A1 | rs863223483  | TT+               | G           | ●      |
| COL5A1 | rs863223478  | CC+               | T           | ●      |
| COL5A1 | rs377138881  | GG+               | A           | ●      |
| COL5A1 | rs926426117  | Variant not found | A,C         | ○      |
| COL5A1 | rs863223457  | Variant not found | T           | ○      |
| COL5A1 | rs61735045   | GG+               | A           | ●      |
| COL5A1 | rs886042173  | Variant not found | A           | ○      |
| COL5A1 | rs183495554  | TT+               | A,C         | ●      |
| COL5A1 | rs772445337  | Variant not found | A           | ○      |
| COL5A1 | rs863223466  | GG+               | A           | ●      |
| COL5A1 | rs557361751  | CC+               | T           | ●      |
| COL5A1 | rs863223474  | II+               |             | ●      |
| COL5A1 | rs387906606  | CC+               | T           | ●      |
| COL5A2 | rs786205104  | Variant not found | A           | ○      |
| COL5A2 | rs762080305  | GG+               | A,C         | ●      |
| COL5A2 | rs1057524163 | Variant not found | A           | ○      |
| COL5A2 | rs773726323  | CC+               | T           | ●      |
| COL5A2 | rs863223501  | CC+               | T           | ●      |
| COL5A2 | rs779153546  | CC+               | T           | ●      |
| COL5A2 | rs771415085  | Variant not found | A,C,T       | ○      |
| COL5A2 | rs878853978  | Variant not found | T           | ○      |
| COL5A2 | rs886039694  | Variant not found | T           | ○      |
| COL5A2 | rs780495441  | CC+               | T           | ●      |
| COL5A2 | rs1040238147 | Variant not found | T           | ○      |
| COL5A2 | rs770598613  | CC+               | G           | ●      |
| COL5A2 | rs151187317  | Variant not found | T           | ○      |
| COL5A2 | rs863223491  | CC+               | T           | ●      |
| COL5A2 | rs779614415  | Variant not found | G           | ○      |
| COL5A2 | rs747946828  | CC+               | A,T         | ●      |
| COL5A2 | rs121912930  | CC+               | G           | ●      |
| MMP1   | rs1799750    | ---               | C           | ●      |
| MMP3   | rs3025058    | DI+               | G           | ●      |
| MMP3   | rs679620     | AG-               | C           | ●      |
| STXBPL | rs11707293   | Variant not found | T           | ○      |

Bone mineral density

| Gene     | SNP          | Genotype          | Rare Allele | Result |
|----------|--------------|-------------------|-------------|--------|
| ADAMTS18 | rs148319220  | Variant not found | A,C         | ○      |
| ADAMTS18 | rs387906972  | Variant not found | A,T         | ○      |
| C7ORF76  | rs7781370    | CT+               | C           | ●      |
| CALCR    | rs1801197    | TT-               | G           | ●      |
| CCDC170  | rs3734805    | AA+               | C           | ●      |
| CCDC170  | rs6929137    | GG+               | A           | ●      |
| CLDN14   | rs113831133  | Variant not found | A           | ○      |
| CLDN14   | rs143797113  | GG+               | A           | ●      |
| COL1A1   | rs1800012    | GT-               | A           | ●      |
| COLEC10  | rs1060505022 | Variant not found | A           | ○      |
| COLEC10  | rs149010496  | Variant not found | T           | ○      |
| CPED1    | rs13223036   | GG+               | G           | ●      |
| CYP24A1  | rs1570669    | AG+               | G           | ●      |
| ESR1     | rs2234693    | CT+               | A,T         | ●      |
| ESR1     | rs9340799    | AG+               | G           | ●      |
| IDUA     | rs173356864  | Variant not found | C           | ○      |
| LEKR1    | rs900400     | CT+               | C           | ●      |

| Gene         | SNP         | Genotype          | Rare Allele | Result |
|--------------|-------------|-------------------|-------------|--------|
| LOC100133286 | rs20572     | CC+               | T           | ●      |
| MEF2C        | rs267607233 | Variant not found | C           | ○      |
| MEF2C        | rs397514655 | Variant not found | G,T         | ○      |
| QPCT         | rs3770748   | Variant not found | G           | ○      |
| SHBG         | rs1799941   | GG+               | A           | ●      |
| WNT16        | rs2707466   | GG-               | G,T         | ●      |
| ZBTB40       | rs7524102   | AG+               | G           | ●      |

### Depression

| Gene    | SNP       | Genotype          | Rare Allele | Result |
|---------|-----------|-------------------|-------------|--------|
| BDNF    | rs6265    | GG-               | T           | ●      |
| COMT    | rs4680    | AG+               | A           | ●      |
| CRHR1   | rs242924  | Variant not found | T           | ○      |
| HTR1A   | rs6295    | CG-               | G           | ●      |
| HTR2A   | rs6311    | CT+               | C           | ●      |
| SLC6A15 | rs4290    | Variant not found | T           | ○      |
| TPH1    | rs1800532 | AC-               | T           | ●      |
| TPH2    | rs4570625 | GT+               | G           | ●      |

### Type 2 diabetes

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| ADCY5      | rs11708067   | AA+               | G           | ●      |
| ADIPOQ     | rs17366743   | TT+               | C           | ●      |
| ADIPOQ     | rs1501299    | CC-               | A           | ●      |
| ADRA2A     | rs553668     | Variant not found | G,T         | ○      |
| ADRB2      | rs1042714    | GT+               | C,T         | ●      |
| AKT1       | rs1130214    | GT-               | C           | ●      |
| CAPN10     | rs3792267    | GG+               | A           | ●      |
| CDKAL1     | rs4712523    | AG+               | G           | ●      |
| CDKAL1     | rs7756992    | AG+               | G,T         | ●      |
| CDKAL1     | rs7754840    | CG+               | C           | ●      |
| CDKAL1     | rs4712524    | AG+               | G           | ●      |
| CDKN2A     | rs10811661   | TT+               | T           | ●      |
| CDKN2A     | rs7020996    | CC+               | C           | ●      |
| CDKN2A/B   | rs2383208    | AA+               | G,T         | ●      |
| CDKN2B-AS1 | rs2383206    | Variant not found | G           | ○      |
| ENPP1      | rs997509     | Variant not found | T           | ○      |
| ENPP1      | rs1044498    | AC+               | C           | ●      |
| ESR1       | rs11964281   | Variant not found | T           | ○      |
| FAM58A     | rs1057521251 | Variant not found | A           | ○      |
| FTO        | rs10163409   | Variant not found | T           | ○      |
| FTO        | rs1121980    | CC-               | A           | ●      |
| FTO        | rs11642841   | CC+               | A           | ●      |
| FTO        | rs8050136    | CC+               | A           | ●      |
| FTO        | rs9939609    | TT+               | A           | ●      |
| FTO        | rs9930506    | AA+               | G           | ●      |
| GAD1       | rs2241165    | AA-               | T           | ●      |
| GAD1       | rs3762555    | Variant not found | A,G         | ○      |
| GAD1       | rs3791850    | Variant not found | A,C         | ○      |
| GCK        | rs4607517    | GG+               | A,C         | ●      |
| GCKR       | rs780094     | AG-               | C           | ●      |
| GPX1       | rs1050450    | CC-               | A           | ●      |
| HHEX       | rs1111875    | Variant not found | T           | ○      |
| HHEX       | rs5015480    | TT+               | T           | ●      |
| HNF1B      | rs757210     | AG-               | G,T         | ●      |
| IGF2BP2    | rs4402960    | GG+               | T           | ●      |
| INSIG2     | rs7566605    | GG+               | C           | ●      |
| IRS1       | rs2943641    | CT+               | C           | ●      |
| JAZF1      | rs1635852    | CT+               | C           | ●      |
| KCNJ11     | rs5215       | TT+               | T           | ●      |
| KCNJ11     | rs5219       | CC+               | T           | ●      |
| KCNQ1      | rs104894252  | GG+               | A,C         | ●      |
| KCNQ1      | rs2283228    | AA+               | C           | ●      |
| KCNQ1      | rs2237892    | CC+               | T           | ●      |
| LEPR       | rs1137101    | AA+               | G           | ●      |
| MTNR1B     | rs10830963   | CC+               | G           | ●      |
| NAF1       | rs7675998    | GG+               | G,T         | ●      |
| NOTCH2     | rs10923931   | Variant not found | T           | ○      |

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| NOTCH2  | rs2793831   | Variant not found | C           | ○      |
| PAX4    | rs2233580   | GG-               | T           | ●      |
| PEX5L   | rs7630877   | GG+               | A,C         | ●      |
| PPARG   | rs13306747  | Variant not found | A,G,T       | ○      |
| PPARG   | rs1801282   | CG+               | C           | ●      |
| PPARG   | rs2197423   | Variant not found | A           | ○      |
| PPARG   | rs3856806   | CC+               | T           | ●      |
| PPARG   | rs6802898   | Variant not found | T           | ○      |
| PTPRD   | rs10116682  | Variant not found | A           | ○      |
| PTPRD   | rs10481625  | Variant not found | A,C,G       | ○      |
| PTPRS   | rs1143699   | Variant not found | A           | ○      |
| RPSAP52 | rs1531343   | CC+               | C,T         | ●      |
| SDHAF4  | rs1048886   | AA+               | G           | ●      |
| SLC2A14 | rs12815313  | Variant not found | G,T         | ○      |
| SLC2A4  | rs121434581 | GG+               | A,C         | ●      |
| SLC30A8 | rs13266634  | CC+               | A,T         | ●      |
| TCF2    | rs4430796   | AG+               | G           | ●      |
| TCF7L2  | rs12255372  | GG+               | T           | ●      |
| TCF7L2  | rs7901695   | TT+               | C           | ●      |
| TCF7L2  | rs7903146   | CC+               | G,T         | ●      |
| THADA   | rs7578597   | TT+               | C           | ●      |
| UBE2E2  | rs7612463   | AC+               | A,G         | ●      |

Sleep disorder

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| AANAT  | rs28936679  | Variant not found | A           | ○      |
| AOC1   | rs10156191  | Variant not found | T           | ○      |
| CLOCK  | rs1801260   | AA+               | C,G,T       | ●      |
| CRY1   | rs184039278 | Variant not found | C,G         | ○      |
| FABP7  | rs2279381   | GG-               | T           | ●      |
| GAD1   | rs1978340   | Variant not found | A           | ○      |
| GAD1   | rs3762555   | Variant not found | A,G         | ○      |
| GAD1   | rs3791878   | Variant not found | T           | ○      |
| GRIA3  | rs3848874   | GG+               | A,T         | ●      |
| GRIA3  | rs687577    | CC+               | C           | ●      |
| HCRTR2 | rs2653349   | GG+               | G,T         | ●      |
| MAT1A  | rs118204001 | TT-               | C           | ●      |
| PER3   | rs10462020  | GT+               | G           | ●      |
| PER3   | rs10462021  | AG+               | G           | ●      |

Celiac disease

| Gene     | SNP        | Genotype          | Rare Allele | Result |
|----------|------------|-------------------|-------------|--------|
| ABL2     | rs2816216  | TT-               | G           | ●      |
| ATXN2    | rs653178   | AA-               | C,T         | ●      |
| CCR3     | rs6441961  | CC+               | C           | ●      |
| CTLA4    | rs231775   | AG+               | G           | ●      |
| HLA      | rs4639334  | Variant not found | A           | ○      |
| HLA      | rs4713586  | TT-               | G           | ●      |
| HLA-DPA1 | rs2301226  | GG+               | A           | ●      |
| HLA-DQA1 | rs2187668  | GG-               | A,G,T       | ●      |
| HLA-DQB1 | rs7454108  | CC+               | C           | ●      |
| HLA-DQB1 | rs7775228  | TT+               | C           | ●      |
| HLA-DRA  | rs2395182  | TT+               | T           | ●      |
| IL-18RAP | rs917997   | AG-               | A,C         | ●      |
| KIAA1109 | rs13119723 | GG+               | G           | ●      |
| KIAA1109 | rs6822844  | GT+               | T           | ●      |
| LPP      | rs1464510  | GT-               | A,T         | ●      |
| MYO9B    | rs2305764  | TT-               | A           | ●      |
| MYO9B    | rs2305767  | Variant not found | T           | ○      |
| NLRP3    | rs10754558 | Variant not found | C           | ○      |
| RGS1     | rs2816316  | TT-               | A           | ●      |
| SH2B3    | rs3184504  | CC+               | A,C,G       | ●      |
| TAGAP    | rs1738074  | AA-               | C           | ●      |

Chronic obstructive pulmonary disease

| Gene   | SNP       | Genotype          | Rare Allele | Result |
|--------|-----------|-------------------|-------------|--------|
| AQP5   | rs3736309 | Variant not found | G           | ○      |
| ASRGL1 | rs2463822 | GG-               | A,C         | ●      |

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| ATP2C2   | rs10514604  | CG+               | A,G         | ●      |
| CDKN1A   | rs1801270   | CC+               | A,T         | ●      |
| CXCL10   | rs56061981  | CT+               | T           | ●      |
| FAM13A   | rs7671167   | CT+               | T           | ●      |
| HSPA12A  | rs1626678   | Variant not found | A           | ○      |
| HTR4     | rs11168048  | Variant not found | C           | ○      |
| KAZN     | rs6667220   | AG+               | A           | ●      |
| P2RX7    | rs2230912   | AG+               | G           | ●      |
| PSORS1C1 | rs121917819 | Variant not found | A,C         | ○      |
| PSORS1C1 | rs3130573   | AA+               | C,G         | ●      |
| SCGB1A1  | rs3741240   | AA+               | A           | ●      |
| SFTPB    | rs1130866   | CC-               | A,C         | ●      |
| TGFB1    | rs1800469   | CT-               | G           | ●      |
| TGFB1    | rs1982073   | Variant not found | A,C         | ○      |
| TMEM254  | rs728616    | AC-               | T           | ●      |
| TMEM63A  | rs1009668   | Variant not found | A,T         | ○      |
| TNF      | rs1800629   | GG+               | A           | ●      |
| TNF      | rs361525    | GG+               | A           | ●      |

### Alzheimer's disease

| Gene     | SNP          | Genotype          | Rare Allele | Result |
|----------|--------------|-------------------|-------------|--------|
| A2M      | rs669        | AA-               | C           | ●      |
| ABCA2    | rs908832     | Variant not found | C,G         | ○      |
| ABCA7    | rs113809142  | Variant not found | G           | ○      |
| ABCA7    | rs115550680  | AA+               | G           | ●      |
| ABCA7    | rs200538373  | Variant not found | A,C         | ○      |
| ABCA7    | rs3752246    | Variant not found | C,T         | ○      |
| ABCA7    | rs3764650    | TT+               | G           | ●      |
| ABCA7    | rs78117248   | Variant not found | G           | ○      |
| APH1B    | rs1047552    | Variant not found | A,G         | ○      |
| APOC1    | rs4420638    | AA+               | G           | ●      |
| APOE     | rs7412       | TT+               | T           | ●      |
| APOE     | rs405509     | CC-               | G           | ●      |
| APOE     | rs449647     | Variant not found | T           | ○      |
| APOE4    | rs429358     | TT+               | C           | ●      |
| APP      | rs193922916  | Variant not found | A,C         | ○      |
| APP      | rs281865161  | Variant not found | A,G         | ○      |
| APP      | rs63749964   | Variant not found | C           | ○      |
| APP      | rs63750064   | Variant not found | G,T         | ○      |
| APP      | rs63750151   | Variant not found | G,T         | ○      |
| APP      | rs63750399   | Variant not found | A,C         | ○      |
| APP      | rs63750643   | Variant not found | C           | ○      |
| APP      | rs63750734   | Variant not found | T           | ○      |
| APP      | rs63750847   | Variant not found | T           | ○      |
| APP      | rs63750868   | Variant not found | C,G         | ○      |
| APP      | rs63751039   | Variant not found | C           | ○      |
| APP      | rs63751122   | Variant not found | G           | ○      |
| APP      | rs466433     | AA+               | G           | ●      |
| APP      | rs63750066   | GG-               | T           | ●      |
| ARHGAP20 | rs326946     | TT-               | C           | ●      |
| ATP8B4   | rs10519262   | Variant not found | A           | ○      |
| BACE1    | rs638405     | Variant not found | G           | ○      |
| BDNF     | rs11030104   | AA+               | G           | ●      |
| BDNF     | rs2049045    | Variant not found | A,C         | ○      |
| BDNF     | rs6265       | GG-               | T           | ●      |
| BIN1     | rs744373     | CT-               | G           | ●      |
| CALHM1   | rs2986017    | Variant not found | G           | ○      |
| CD2AP    | rs10948363   | AA+               | G           | ●      |
| CD2AP    | rs9349407    | GG+               | C           | ●      |
| CETP     | rs5882       | AG+               | A           | ●      |
| CHAT     | rs733722     | CC+               | A,G,T       | ●      |
| CHAT     | rs2177369    | CC-               | G           | ●      |
| CHAT     | rs3810950    | GG+               | A           | ●      |
| CLU      | rs11136000   | CC+               | C           | ●      |
| CNTNAP2  | rs1057520549 | Variant not found | T           | ○      |
| CNTNAP2  | rs1057520743 | Variant not found | G           | ○      |
| CNTNAP2  | rs1085307838 | Variant not found | C           | ○      |
| CPS1     | rs1047891    | CC+               | A           | ●      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| CR1        | rs3818361    | CC-               | G           | ●      |
| CR1        | rs6656401    | GG+               | G,T         | ●      |
| CTNNA3     | rs2306402    | Variant not found | T           | ○      |
| CTSD       | rs17571      | CC-               | A           | ●      |
| DAPK1      | rs4877365    | Variant not found | A           | ○      |
| DAPK1      | rs4878104    | Variant not found | T           | ○      |
| DKK1       | rs1881747    | Variant not found | C           | ○      |
| EIF2AK2    | rs2254958    | Variant not found | A           | ○      |
| ENTPD7     | rs911541     | Variant not found | A           | ○      |
| FAM171A2   | rs5848       | Variant not found | T           | ○      |
| FRMD4A     | rs10906466   | AG+               | C,G         | ●      |
| GAB2       | rs2373115    | GG-               | A           | ●      |
| GCKR       | rs1260326    | CT+               | C           | ●      |
| GOLM1      | rs10868366   | GT+               | T           | ●      |
| GOLM1      | rs7019241    | CT+               | G,T         | ●      |
| IDE        | rs4646954    | Variant not found | A           | ○      |
| IL-1B      | rs1143634    | CT-               | A           | ●      |
| IL-6       | rs1800795    | CG+               | G           | ●      |
| INTERGENIC | rs2279420    | Variant not found | G           | ○      |
| INTERGENIC | rs9886784    | Variant not found | C,T         | ○      |
| LDLR       | rs688        | CC+               | T           | ●      |
| LRP6       | rs2160525    | AG+               | G           | ●      |
| LTA        | rs1799724    | CT+               | T           | ●      |
| MAPT       | rs143624519  | Variant not found | A           | ○      |
| MME        | rs1836915    | Variant not found | C           | ○      |
| MPO        | rs12316150   | Variant not found | T           | ○      |
| MPO        | rs2333227    | TT+               | T           | ●      |
| MS4A6A     | rs610932     | CC-               | G           | ●      |
| OLR1       | rs1050283    | Variant not found | A           | ○      |
| PCDH11X    | rs5984894    | AA+               | G           | ●      |
| PCK1       | rs8192708    | AG+               | G           | ●      |
| PEX6       | rs387906809  | Variant not found | G           | ○      |
| PEX6       | rs61753224   | Variant not found | A           | ○      |
| PICALM     | rs10792832   | AG+               | G           | ●      |
| PICALM     | rs3851179    | AG-               | C           | ●      |
| PLAU       | rs2227562    | GG+               | A           | ●      |
| PLAU       | rs2227564    | TT+               | C           | ●      |
| PLD3       | rs145999145  | GG+               | A           | ●      |
| POLN       | rs1923775    | TT+               | T           | ●      |
| PPP1R3B    | rs3748140    | GG-               | T           | ●      |
| PPP1R3B    | rs9987289    | GG+               | G           | ●      |
| PRRC2C     | rs2421847    | AA+               | G           | ●      |
| PSEN1      | rs121917807  | Variant not found | A           | ○      |
| PSEN1      | rs63749805   | Variant not found | G,T         | ○      |
| PSEN1      | rs63749824   | CC+               | G,T         | ●      |
| PSEN1      | rs63749911   | Variant not found | C           | ○      |
| PSEN1      | rs63749962   | Variant not found | G           | ○      |
| PSEN1      | rs63749967   | Variant not found | C           | ○      |
| PSEN1      | rs63750004   | Variant not found | A,C         | ○      |
| PSEN1      | rs63750218   | Variant not found | C,G         | ○      |
| PSEN1      | rs63750299   | Variant not found | G           | ○      |
| PSEN1      | rs63750306   | Variant not found | C,G,T       | ○      |
| PSEN1      | rs63750325   | Variant not found | A           | ○      |
| PSEN1      | rs63750391   | Variant not found | A,C,T       | ○      |
| PSEN1      | rs63750450   | Variant not found | G           | ○      |
| PSEN1      | rs63750526   | Variant not found | A           | ○      |
| PSEN1      | rs63750550   | Variant not found | G,T         | ○      |
| PSEN1      | rs63750730   | Variant not found | T           | ○      |
| PSEN1      | rs63750907   | Variant not found | T           | ○      |
| PSEN1      | rs63751106   | Variant not found | A,C         | ○      |
| PSEN1      | rs63751272   | Variant not found | C,T         | ○      |
| PSEN1      | rs63751441   | Variant not found | G,T         | ○      |
| PSEN1      | rs63751484   | Variant not found | C           | ○      |
| PSEN1      | rs661        | GG+               | A,T         | ●      |
| PSEN1      | rs1566630910 | Variant not found | A           | ○      |
| PSEN2      | rs150400387  | Variant not found | G,T         | ○      |
| PSEN2      | rs574125890  | Variant not found | A,T         | ○      |
| PSEN2      | rs61757781   | Variant not found | G           | ○      |

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| PSEN2  | rs63750197   | CC+               | T           | ●      |
| PSEN2  | rs63750812   | Variant not found | A           | ○      |
| PSEN2  | rs775145486  | Variant not found | G           | ○      |
| SORL1  | rs12285364   | Variant not found | T           | ○      |
| SORL1  | rs2070045    | Variant not found | G           | ○      |
| SORL1  | rs641120     | Variant not found | A           | ○      |
| SORL1  | rs661057     | Variant not found | C           | ○      |
| SORL1  | rs668387     | Variant not found | A,T         | ○      |
| SORL1  | rs689021     | Variant not found | A           | ○      |
| SST    | rs4988514    | Variant not found | C           | ○      |
| TAP2   | rs241448     | Variant not found | G           | ○      |
| TET1   | rs5030882    | Variant not found | T           | ○      |
| TF     | rs1049296    | CT+               | T           | ●      |
| TFAM   | rs1937       | CG+               | C           | ●      |
| TM2D3  | rs139709573  | Variant not found | A           | ○      |
| TOMM40 | rs2075650    | AA+               | G           | ●      |
| TREM2  | rs28937876   | Variant not found | A           | ○      |
| TREM2  | rs5143332484 | Variant not found |             | ○      |
| TREM2  | rs75932628   | CC+               | A,T         | ●      |

### Gastroesophageal Reflux Disease

| Gene  | SNP    | Genotype | Rare Allele | Result |
|-------|--------|----------|-------------|--------|
| CDCA3 | rs5443 | CT+      | T           | ●      |

### Cardiovascular diseases

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| ALDH2   | rs671      | GG+               | A           | ●      |
| ARG1    | rs28941474 | Variant not found | C           | ○      |
| IL-6    | rs1800795  | CG+               | G           | ●      |
| NOS3    | rs1799983  | GG+               | T           | ●      |
| SLC2A14 | rs2889504  | Variant not found | A           | ○      |
| SOD2    | rs4880     | CT-               | G           | ●      |

### Eczema

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| CLEC16A    | rs2041733   | TT+               | C,G         | ●      |
| IL-6R      | rs12730935  | Variant not found | A           | ○      |
| IL-7R      | rs10214237  | Variant not found | C           | ○      |
| INTERGENIC | rs10199605  | Variant not found | A           | ○      |
| INTERGENIC | rs112111458 | Variant not found | G           | ○      |
| INTERGENIC | rs2038255   | Variant not found | T           | ○      |
| INTERGENIC | rs2212434   | TT+               | T           | ●      |
| INTERGENIC | rs2918307   | AA+               | G,T         | ●      |
| INTERGENIC | rs4713555   | GG+               | T           | ●      |
| INTERGENIC | rs61813875  | CC+               | G           | ●      |
| INTERGENIC | rs6419573   | Variant not found | C           | ○      |
| INTERGENIC | rs6602364   | Variant not found | C           | ○      |
| INTERGENIC | rs7512552   | CC+               | C           | ●      |
| OVOL1      | rs10791824  | AG+               | G,T         | ●      |
| PRR5L      | rs2592555   | Variant not found | C,G         | ○      |
| PUS10      | rs4643526   | Variant not found | A           | ○      |
| RTEL1      | rs4809219   | Variant not found | A,G,T       | ○      |
| STAT3      | rs12951971  | Variant not found | C,G         | ○      |
| ZNF365     | rs7076156   | GG+               | C,G         | ●      |

### Endometriosis

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| CDKN2B-AS1 | rs10965235 | CC+               | A           | ●      |
| CKAP2L     | rs7594852  | Variant not found | G,T         | ○      |
| DEFA1A3    | rs2738113  | Variant not found | G           | ○      |
| ESR1       | rs9340799  | AG+               | G           | ●      |
| GRCH37.1   | rs12700667 | AG+               | A           | ●      |
| GREB1      | rs13394619 | AG+               | G           | ●      |
| GREB1      | rs2304402  | Variant not found | G           | ○      |
| GREB1      | rs7576826  | CT+               | C           | ●      |
| IL-6       | rs1800795  | CG+               | G           | ●      |
| INTERGENIC | rs16826658 | Variant not found | G           | ○      |
| INTERGENIC | rs10508881 | AG+               | A           | ●      |

| Gene  | SNP        | Genotype          | Rare Allele | Result |
|-------|------------|-------------------|-------------|--------|
| KSR2  | rs10431397 | CC+               | T           | ●      |
| MUC4  | rs1104760  | Variant not found | A,T         | ○      |
| MUC4  | rs2246901  | TT-               | A,T         | ●      |
| MUC4  | rs2258447  | Variant not found | A,C         | ○      |
| MUC4  | rs2688513  | Variant not found | A,C,T       | ○      |
| MUC4  | rs882605   | Variant not found | C           | ○      |
| STIP1 | rs4980524  | Variant not found | A           | ○      |
| TCN2  | rs1801198  | GG+               | A,C         | ●      |
| VEZT  | rs10859871 | AC+               | C           | ●      |
| WNT4  | rs7521902  | Variant not found | A           | ○      |
| WNT4  | rs2235529  | Variant not found | T           | ○      |

### Skin Aging

| Gene   | SNP        | Genotype          | Rare Allele | Result |
|--------|------------|-------------------|-------------|--------|
| AQP3   | rs17553719 | Variant not found | C,G         | ○      |
| CAT    | rs1001179  | AA-               | T           | ●      |
| IL-6   | rs1800795  | CG+               | G           | ●      |
| MMP1   | rs1799750  | ---               | C           | ●      |
| MMP3   | rs3025058  | DI+               | G           | ●      |
| MMP9   | rs3918242  | Variant not found | T           | ○      |
| NFE2L2 | rs35652124 | CT+               | C           | ●      |
| NFE2L2 | rs6706649  | CC+               | T           | ●      |
| NFE2L2 | rs6721961  | GG+               | C,G         | ●      |
| NQO1   | rs1800566  | CC-               | A           | ●      |
| SOD2   | rs4880     | CT-               | G           | ●      |
| SOD2   | rs1141718  | Variant not found | G           | ○      |

### Estradiol

| Gene | SNP       | Genotype | Rare Allele | Result |
|------|-----------|----------|-------------|--------|
| ESR2 | rs1256031 | CC-      | A,T         | ●      |
| SHBG | rs1799941 | GG+      | A           | ●      |

### Estrone

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| CYP19A1 | rs749292   | GG+               | A           | ●      |
| CYP19A1 | rs727479   | TT-               | C           | ●      |
| CYP19A1 | rs28566535 | Variant not found | C           | ○      |
| CYP19A1 | rs730154   | CT+               | C           | ●      |
| CYP19A1 | rs936306   | CT+               | T           | ●      |
| CYP19A1 | rs10046    | CC-               | A           | ●      |

### Tumor Necrosis Factor Alpha

| Gene | SNP       | Genotype | Rare Allele | Result |
|------|-----------|----------|-------------|--------|
| TNF  | rs1800629 | GG+      | A           | ●      |

### Glycation

| Gene | SNP       | Genotype          | Rare Allele | Result |
|------|-----------|-------------------|-------------|--------|
| AGER | rs1800624 | TT-               | T           | ●      |
| AGER | rs1800625 | CT-               | G           | ●      |
| AGER | rs184003  | GG-               | A           | ●      |
| AGER | rs2070600 | GG-               | T           | ●      |
| AGER | rs3134940 | Variant not found | C           | ○      |
| GLO1 | rs4746    | AA-               | A,G         | ●      |

### Glutamate

| Gene | SNP      | Genotype | Rare Allele | Result |
|------|----------|----------|-------------|--------|
| CBS  | rs234706 | GG+      | A           | ●      |

### Hypercholesterolemia (Type B)

| Gene   | SNP        | Genotype          | Rare Allele | Result |
|--------|------------|-------------------|-------------|--------|
| APOB   | rs12713559 | CC-               | A           | ●      |
| APOB   | rs5742904  | GG-               | A,T         | ●      |
| APOB   | rs5752904  | Variant not found |             | ○      |
| INSIG2 | rs7566605  | GG+               | C           | ●      |
| LDLR   | rs28941776 | GG+               | A,T         | ●      |
| LDLR   | rs28942081 | GG+               | A,T         | ●      |
| LDLR   | rs28942082 | GG+               | A,C,T       | ●      |

### Hypertension

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| ACE     | rs4343      | AG+               | A           | ●      |
| ADD1    | rs4961      | GT+               | A,T         | ●      |
| ADD1    | rs4963      | CG+               | G,T         | ●      |
| AGT     | rs121912702 | Variant not found | A           | ○      |
| AGT     | rs699       | CT-               | G           | ●      |
| AGT     | rs5051      | CT+               | T           | ●      |
| AGTR1   | rs5186      | AA+               | C           | ●      |
| APOE4   | rs429358    | TT+               | C           | ●      |
| ATP2B1  | rs7965584   | AG+               | G           | ●      |
| BCAT1   | rs7961152   | Variant not found | C           | ○      |
| CALCA   | rs3781719   | Variant not found | G           | ○      |
| CLCN6   | rs13306560  | Variant not found | T           | ○      |
| CLCN6   | rs17376328  | Variant not found | A           | ○      |
| CNNM2   | rs11191548  | TT+               |             | ●      |
| CYP11B2 | rs1799998   | TT-               | G           | ●      |
| CYP17A1 | rs1004467   | TT-               |             | ●      |
| CYP4A11 | rs1126742   | Variant not found | G           | ○      |
| EDN1    | rs5370      | GT+               | T           | ●      |
| EDNRA   | rs5335      | Variant not found | G           | ○      |
| GRK4    | rs1024323   | GG-               | T           | ●      |
| GRK4    | rs2960306   | GG+               | T           | ●      |
| GUCY1A3 | rs587777320 | Variant not found | A,T         | ○      |
| GUCY1A3 | rs587777321 | Variant not found | T           | ○      |
| GUCY1A3 | rs587777322 | Variant not found |             | ○      |
| HIVEP2  | rs878853251 | Variant not found |             | ○      |
| IL-6    | rs1800795   | CG+               | G           | ●      |
| NEDD4L  | rs2288774   | CT+               | A,C         | ●      |
| NEDD4L  | rs3865418   | CC+               | C           | ●      |
| NEDD4L  | rs4149601   | AA+               | A           | ●      |
| NOS3    | rs1799983   | GG+               | T           | ●      |
| NOS3    | rs1800779   | AA+               | G           | ●      |
| NOS3    | rs1800783   | Variant not found | C,G,T       | ○      |
| NOS3    | rs3918188   | Variant not found | A,T         | ○      |
| PPARG   | rs4684847   | Variant not found | T           | ○      |
| STK39   | rs3754777   | Variant not found | T           | ○      |
| STK39   | rs6749447   | GT+               | G           | ●      |
| TRPM6   | rs11144134  | CT+               | C           | ●      |
| UMOD    | rs13333226  | AA+               | A           | ●      |

### Hyperthyroidism

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| MICOS10 | rs12138950 | AA+               | A           | ●      |
| PDE8B   | rs2046045  | Variant not found | T           | ○      |
| TNF     | rs1800629  | GG+               | A           | ●      |
| TSHR    | rs2288493  | Variant not found | T           | ○      |

### Hypothyroidism

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| CAPZB      | rs1472565   | Variant not found | A,C         | ○      |
| CTLA4      | rs231779    | Variant not found | T           | ○      |
| DIO1       | rs11206244  | CC+               | T           | ●      |
| DIO1       | rs2235544   | AC+               | A,T         | ●      |
| DUOX2      | rs119472026 | Variant not found | A,C         | ○      |
| FGF7       | rs4338740   | CT+               | C           | ●      |
| FMNL1      | rs12449792  | Variant not found | T           | ○      |
| FOXE1      | rs10984009  | Variant not found | A           | ○      |
| FOXE1      | rs28937575  | Variant not found | A           | ○      |
| HLA        | rs2517532   | CT-               | G           | ●      |
| INSR       | rs4804416   | GT+               | G           | ●      |
| INTERGENIC | rs10162002  | AG+               | A           | ●      |
| INTERGENIC | rs7850258   | Variant not found | G           | ○      |
| INTERGENIC | rs10961534  | AA+               | G           | ●      |
| INTERGENIC | rs10519980  | Variant not found | C           | ○      |
| IYD        | rs121918139 | TT+               | C           | ●      |
| IYD        | rs121918140 | Variant not found | A           | ○      |
| MTF1       | rs3748682   | TT+               | C           | ●      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| PDE10A  | rs2983514    | Variant not found | A           | ○      |
| PDE8B   | rs4704397    | AG+               | A           | ●      |
| PDE8B   | rs1382879    | CT+               | T           | ●      |
| PHTF1   | rs6679677    | CC+               | A           | ●      |
| PTCSC2  | rs925489     | CT+               | C,T         | ●      |
| SH2B3   | rs3184504    | CC+               | A,C,G       | ●      |
| TG      | rs11535853   | Variant not found |             | ○      |
| TG      | rs2069561    | Variant not found | A           | ○      |
| TG      | rs35301433   | AA+               | G           | ●      |
| TG      | rs853326     | Variant not found | G           | ○      |
| TPO     | rs104893669  | Variant not found | G,T         | ○      |
| TPO     | rs1057518950 | Variant not found | T           | ○      |
| TPO     | rs11675342   | Variant not found | T           | ○      |
| TSHR    | rs2288493    | Variant not found | T           | ○      |
| VAV3    | rs4915077    | TT+               | C           | ●      |
| ZNF804B | rs10248351   | TT+               | C           | ●      |

### Luteinizing Hormone (LH)

| Gene  | SNP       | Genotype          | Rare Allele | Result |
|-------|-----------|-------------------|-------------|--------|
| LHB   | rs1056917 | Variant not found | A           | ○      |
| LHB   | rs1800447 | Variant not found | G           | ○      |
| LHCGR | rs2293275 | GG-               | C           | ●      |
| VDR   | rs2228570 | CC-               | C,T         | ●      |

### Impulsivity

| Gene  | SNP        | Genotype | Rare Allele | Result |
|-------|------------|----------|-------------|--------|
| ANKK1 | rs1800497  | CT-      | A           | ●      |
| BDNF  | rs6265     | GG-      | T           | ●      |
| COMT  | rs4680     | AG+      | A           | ●      |
| HTR1A | rs6295     | CG-      | G           | ●      |
| HTR1B | rs13212041 | TT+      | T           | ●      |
| HTR2A | rs6311     | CT+      | C           | ●      |
| HTR2A | rs6313     | CT-      | A           | ●      |
| NRXN3 | rs11624704 | AA+      | C           | ●      |
| OPRM1 | rs1799971  | GG+      | G           | ●      |

### Urinary incontinence

| Gene  | SNP       | Genotype          | Rare Allele | Result |
|-------|-----------|-------------------|-------------|--------|
| LOXL1 | rs1048661 | Variant not found | T           | ○      |
| LOXL1 | rs2165241 | Variant not found | C           | ○      |

### Acute myocardial infarction

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| ADRB2      | rs1800888  | CC+               | T           | ●      |
| APOA5      | rs662799   | AA+               | T           | ●      |
| BRAP       | rs3782886  | AA-               | C           | ●      |
| CDKN2B-AS1 | rs10116277 | TT+               | T           | ●      |
| CDKN2B-AS1 | rs1537375  | Variant not found | C,G         | ○      |
| CDKN2B-AS1 | rs1333040  | TT+               | G,T         | ●      |
| CETP       | rs2303790  | AA+               | G           | ●      |
| CETP       | rs4329913  | GG-               | T           | ●      |
| CYP11B2    | rs1799998  | TT-               | G           | ●      |
| F12        | rs1801020  | CT-               | G           | ●      |
| F13A1      | rs5985     | GG-               | A           | ●      |
| F7         | rs6046     | CT-               | A           | ●      |
| FLJ25967   | rs2331291  | Variant not found | T           | ○      |
| GJA4       | rs1764391  | CC+               | C           | ●      |
| IL-4       | rs2243250  | CC+               | T           | ●      |
| INTERGENIC | rs10757278 | GG+               | G           | ●      |
| INTERGENIC | rs1333049  | CC+               | C           | ●      |
| INTERGENIC | rs2383207  | GG+               | G           | ●      |
| ITGB3      | rs5918     | TT+               | C           | ●      |
| LRP8       | rs5174     | GG-               | T           | ●      |
| MMP3       | rs3025058  | DI+               | G           | ●      |
| MMP9       | rs17576    | Variant not found | G           | ○      |
| MMP9       | rs3918242  | Variant not found | T           | ○      |
| OLR1       | rs11053646 | Variant not found | G           | ○      |
| PSMA6      | rs1048990  | CG+               | G,T         | ●      |

| Gene   | SNP       | Genotype          | Rare Allele | Result |
|--------|-----------|-------------------|-------------|--------|
| PSRC1  | rs599839  | AA+               | A,C         | ●      |
| SH2B3  | rs3184504 | CC+               | A,C,G       | ●      |
| TLR4   | rs4986790 | AA+               | G,T         | ●      |
| TNFSF4 | rs1234313 | AG+               | G           | ●      |
| TNFSF4 | rs1234315 | Variant not found | T           | ○      |
| TNFSF4 | rs3850641 | Variant not found | G           | ○      |
| TNFSF4 | rs3861950 | TT+               | C           | ●      |

#### Female Infertility

| Gene | SNP      | Genotype          | Rare Allele | Result |
|------|----------|-------------------|-------------|--------|
| FSHR | rs6166   | AG-               | T           | ●      |
| GDF9 | rs254286 | Variant not found | G           | ○      |
| LIF  | rs929271 | Variant not found | G           | ○      |

#### Inflammation and Depression

| Gene  | SNP       | Genotype          | Rare Allele | Result |
|-------|-----------|-------------------|-------------|--------|
| IDO1  | rs9657182 | CT+               | G,T         | ●      |
| IL-1B | rs16944   | AG+               | G           | ●      |
| IL-6  | rs1800796 | GG+               | C           | ●      |
| IL-6  | rs1800795 | CG+               | G           | ●      |
| IL-6  | rs1800797 | AG+               | G           | ●      |
| IL-6R | rs4129267 | CC+               | G,T         | ●      |
| IL-6R | rs2228145 | AA+               | C,T         | ●      |
| KMO   | rs1053230 | Variant not found | T           | ○      |
| TNF   | rs1800629 | GG+               | A           | ●      |

#### Premature Ovarian Insufficiency

| Gene | SNP    | Genotype | Rare Allele | Result |
|------|--------|----------|-------------|--------|
| COMT | rs4680 | AG+      | A           | ●      |

#### Lupus

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| BANK1      | rs10516487 | CC-               | A           | ●      |
| C3         | rs2230201  | Variant not found | G,T         | ○      |
| CRP        | rs1205     | CT+               | T           | ●      |
| CRP        | rs3093061  | Variant not found | C           | ○      |
| CTLA4      | rs231775   | AG+               | G           | ●      |
| FCGR3A     | rs403016   | Variant not found | G           | ○      |
| GSR        | rs2253409  | Variant not found | A,C         | ○      |
| GSR        | rs2551715  | TT+               | A,C         | ●      |
| HLA-DQA1   | rs2187668  | GG-               | A,G,T       | ●      |
| INTERGENIC | rs729302   | AA+               | C           | ●      |
| INTERGENIC | rs9494883  | Variant not found | G           | ○      |
| INTERGENIC | rs13277113 | AG+               | A           | ●      |
| IRF5       | rs10488631 | CT+               | C           | ●      |
| IRF5       | rs2004640  | Variant not found | G           | ○      |
| ITGAM      | rs1143679  | GG+               | A           | ●      |
| ITGAM      | rs9888739  | CT+               | T           | ●      |
| ITGAX      | rs11574637 | CT+               | C           | ●      |
| ITPR3      | rs3748079  | Variant not found | T           | ○      |
| LY9        | rs509749   | GG+               | A           | ●      |
| MECP2      | rs1734791  | AT+               | T           | ●      |
| MECP2      | rs17435    | AT+               | T           | ●      |
| MECP2      | rs1734787  | AC+               | C           | ●      |
| MECP2      | rs1734792  | AC+               | C           | ●      |
| NELFE      | rs419788   | GG-               | A,C         | ●      |
| NKX2-5     | rs3095870  | Variant not found | T           | ○      |
| PRL        | rs1341239  | GT-               | A           | ●      |
| STAT4      | rs7574865  | GT+               | G           | ●      |
| STAT4      | rs7582694  | CG+               | C           | ●      |
| TBX21      | rs4794067  | CC+               | C           | ●      |
| TBX21      | rs17250932 | CC+               | C           | ●      |
| TLR9       | rs352140   | Variant not found | T           | ○      |
| TLR9       | rs5743836  | Variant not found | G           | ○      |
| TNF        | rs1800629  | GG+               | A           | ●      |
| TNF        | rs1800630  | CC+               | A           | ●      |
| TNFAIP3    | rs5029939  | CC+               | G           | ●      |
| TNFAIP3    | rs2230926  | TT+               | C,G         | ●      |

| Gene  | SNP       | Genotype          | Rare Allele | Result |
|-------|-----------|-------------------|-------------|--------|
| TNPO3 | rs2280714 | Variant not found | T           | ○      |
| TYK2  | rs2304256 | CC+               | C           | ●      |

#### Melasma

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| BNC2    | rs10733310 | GT+               | A,G         | ●      |
| IRF4    | rs12203592 | CC+               | T           | ●      |
| MC1R    | rs2228479  | GG+               | A,C         | ●      |
| OCA2    | rs1800414  | AA-               | C           | ●      |
| OCA2    | rs7495174  | AA+               | A           | ●      |
| SLC24A5 | rs1834640  | Variant not found | G           | ○      |
| SLC45A2 | rs26722    | CT+               | T           | ●      |

#### Uterine Fibroids

| Gene       | SNP        | Genotype | Rare Allele | Result |
|------------|------------|----------|-------------|--------|
| BET1L      | rs2280543  | CC+      | T           | ●      |
| ESR1       | rs9340799  | AG+      | G           | ●      |
| INTERGENIC | rs7913069  | CC+      | T           | ●      |
| TNRC6B     | rs12484776 | AG+      | G           | ●      |

#### Endometrial Neoplasm

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| CDKN1B | rs34330     | CT+               | C           | ●      |
| COMT   | rs4633      | CT+               | T           | ●      |
| COMT   | rs4680      | AG+               | A           | ●      |
| CYP1B1 | rs10012     | CG-               | C           | ●      |
| ESR1   | rs9340799   | AG+               | G           | ●      |
| MDM2   | rs2279744   | Variant not found | G           | ○      |
| MLH3   | rs28756990  | GG-               | A,T         | ●      |
| MSH6   | rs2020912   | TT+               | C,G         | ●      |
| MUTYH  | rs36053993  | GG-               | T           | ●      |
| PGR    | rs1042838   | GG-               | A,G         | ●      |
| POLD1  | rs1052471   | Variant not found | C           | ○      |
| PTEN   | rs587776667 | GG+               | A,C,T       | ●      |
| SHBG   | rs6259      | Variant not found | A           | ○      |

#### Breast neoplasm

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| AGER   | rs184003    | GG-               | A           | ●      |
| ATM    | rs1800056   | TT+               | C           | ●      |
| ATM    | rs1800057   | Variant not found | A,G         | ○      |
| ATM    | rs1800058   | CC+               | T           | ●      |
| ATM    | rs1801673   | AA+               | T           | ●      |
| ATM    | rs3092856   | CC+               | T           | ●      |
| ATM    | rs3218695   | CC+               | A,T         | ●      |
| ATM    | rs3218707   | GG+               | C           | ●      |
| ATM    | rs4986761   | TT+               | C           | ●      |
| ATM    | rs4987945   | Variant not found | G           | ○      |
| ATM    | rs772821016 | CC+               | T           | ●      |
| AURKA  | rs1047972   | GG-               | T           | ●      |
| AURKA  | rs2273535   | Variant not found | T           | ○      |
| BARD1  | rs28997576  | Variant not found | G,T         | ○      |
| BARD1  | rs864622239 | Variant not found | C,T         | ○      |
| BMPR1B | rs1434536   | Variant not found | T           | ○      |
| BRCA1  | rs16942     | AG-               | A,C         | ●      |
| BRCA1  | rs1799950   | AA-               | C           | ●      |
| BRCA1  | rs1799966   | AG-               | A,C         | ●      |
| BRCA1  | rs1800709   | CC-               | A           | ●      |
| BRCA1  | rs2227945   | AA-               | C,G         | ●      |
| BRCA1  | rs4986850   | GG-               | A,T         | ●      |
| BRCA1  | rs4986852   | GG-               | G,T         | ●      |
| BRCA1  | rs80357058  | GG-               | T           | ●      |
| BRCA1  | rs386833395 | ---               | D           | ●      |
| BRCA1  | rs80357123  | CC-               | A           | ●      |
| BRCA1  | rs80357260  | CC-               | A           | ●      |
| BRCA2  | rs11571746  | Variant not found | C           | ○      |
| BRCA2  | rs11571747  | AA+               | C           | ●      |
| BRCA2  | rs11571833  | AA+               | T           | ●      |

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| BRCA2      | rs144848    | GT-               | C           | ●      |
| BRCA2      | rs1799944   | AA+               | G           | ●      |
| BRCA2      | rs1799954   | CC+               | A,T         | ●      |
| BRCA2      | rs1801426   | AA+               | G           | ●      |
| BRCA2      | rs28897743  | GG+               | A,C,T       | ●      |
| BRCA2      | rs4987047   | AA+               | T           | ●      |
| BRCA2      | rs4987117   | CC+               | T           | ●      |
| BRCA2      | rs766173    | TT-               | C,G         | ●      |
| BRCA2      | rs80358785  | CC+               | A,G         | ●      |
| BRCA2      | rs80359604  | II+               | T           | ●      |
| BRCA2      | rs397507866 | GG+               | T           | ●      |
| BRCA2      | rs80359462  | II+               | D           | ●      |
| BRCA2      | rs80359628  | II+               | D           | ●      |
| BRCA2      | rs80358557  | CC+               | T           | ●      |
| BRCA2      | rs80359276  | II+               | D           | ●      |
| BRCA2      | rs80358807  | CC+               | T           | ●      |
| BRCA2      | rs80358391  | GG+               | T           | ●      |
| BRCA2      | rs28897756  | GG+               | A           | ●      |
| BRIP1      | rs137852986 | CC-               | A           | ●      |
| CASC16     | rs3803662   | CT-               | G           | ●      |
| CASC21     | rs13281615  | AG+               | G           | ●      |
| CASP8      | rs1045485   | GG+               | A,C,T       | ●      |
| CASP8      | rs17468277  | Variant not found | A,T         | ○      |
| CCNE1      | rs997669    | Variant not found | C           | ○      |
| CDKN1A     | rs1801270   | CC+               | A,T         | ●      |
| CDKN1A     | rs3176336   | Variant not found | T           | ○      |
| CDKN1B     | rs34330     | CT+               | C           | ●      |
| CDKN2A     | rs3731239   | Variant not found | G           | ○      |
| CDKN2B-AS1 | rs3218005   | Variant not found | C           | ○      |
| CHEK2      | rs17879961  | TT-               | C,G         | ●      |
| CHEK2      | rs1805129   | Variant not found | C           | ○      |
| CHEK2      | rs587781269 | CC-               | A           | ●      |
| CHEK2      | rs121908698 | GG-               | T           | ●      |
| COMT       | rs165631    | CC+               | T           | ●      |
| CYP1B1     | rs1056836   | CC-               | C           | ●      |
| CYP24A1    | rs8124792   | Variant not found | A           | ○      |
| EPCAM      | rs1126497   | Variant not found | C           | ○      |
| FANCA      | rs1061646   | Variant not found | A           | ○      |
| FANCC      | rs121917783 | CC-               | A           | ●      |
| FGFR2      | rs1219648   | AA+               | G,T         | ●      |
| FGFR2      | rs2420946   | Variant not found | C           | ○      |
| FGFR2      | rs2981582   | CC-               | G           | ●      |
| FGFR2      | rs1078806   | TT-               | G           | ●      |
| FGFR4      | rs351855    | CC-               | A           | ●      |
| FTO        | rs17817449  | TT+               | A,G         | ●      |
| GAD1       | rs1978340   | Variant not found | A           | ○      |
| GAD1       | rs3791878   | Variant not found | T           | ○      |
| GPX1       | rs1050450   | CC-               | A           | ●      |
| GPX4       | rs713041    | Variant not found | A,C         | ○      |
| GSTP1      | rs1695      | GG+               | G           | ●      |
| HER2       | rs1136201   | AA+               | G,T         | ●      |
| HMMR       | rs10515860  | Variant not found | A           | ○      |
| HMMR       | rs299284    | CC+               | T           | ●      |
| HRAS       | rs104894228 | GG-               | A           | ●      |
| INTERGENIC | rs10816625  | AA+               | G           | ●      |
| INTERGENIC | rs13387042  | AA+               | G           | ●      |
| INTERGENIC | rs2056116   | AG+               | G           | ●      |
| INTERGENIC | rs4700485   | Variant not found | G           | ○      |
| INTERGENIC | rs672888    | Variant not found | G           | ○      |
| LPAR6      | rs2854344   | Variant not found | A,T         | ○      |
| LSP1       | rs3817198   | CT+               | C           | ●      |
| MAP3K1     | rs889312    | AA+               | A           | ●      |
| MIR146A    | rs2910164   | CG+               | G           | ●      |
| MRPS30     | rs4415084   | Variant not found | T           | ○      |
| NCOA3      | rs2230782   | GG+               | A,C         | ●      |
| NOS3       | rs1800783   | Variant not found | C,G,T       | ○      |
| NQO1       | rs1800566   | CC-               | A           | ●      |
| PALB2      | rs249954    | Variant not found | A,G         | ○      |

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| PALB2   | rs180177111 | CC-               | A           | ●      |
| RB1     | rs198580    | Variant not found | A           | ○      |
| SLCO1B3 | rs4149117   | GG+               | C,G         | ●      |
| SLCO1B3 | rs7311358   | AA+               | A           | ●      |
| STAT5B  | rs6503691   | Variant not found | T           | ○      |
| TERT    | rs10069690  | CT+               | T           | ●      |
| TNF     | rs361525    | GG+               | A           | ●      |
| TP53    | rs2287499   | Variant not found | G,T         | ○      |
| TP53    | rs11540652  | GG-               | T           | ●      |
| TP53    | rs121912651 | CC-               | A           | ●      |
| TP53    | rs121912657 | GG-               | A           | ●      |
| TPD52   | rs1042638   | Variant not found | A,T         | ○      |
| VDR     | rs731236    | CT-               | G           | ●      |
| WRN     | rs1346044   | CT+               | C           | ●      |
| WRN     | rs3087425   | CC+               | T           | ●      |
| XRCC1   | rs25489     | GG-               | G,T         | ●      |
| XRCC2   | rs3218536   | GG-               | G,T         | ●      |
| XRCC3   | rs1799794   | Variant not found | C           | ○      |

### Ovary Neoplasm

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| BRCA1      | rs16942     | AG-               | A,C         | ●      |
| BRCA1      | rs1799950   | AA-               | C           | ●      |
| BRCA1      | rs1800709   | CC-               | A           | ●      |
| BRCA1      | rs2227945   | AA-               | C,G         | ●      |
| BRCA1      | rs3737559   | Variant not found | T           | ○      |
| BRCA1      | rs4986852   | GG-               | G,T         | ●      |
| BRCA2      | rs11571746  | Variant not found | C           | ○      |
| BRCA2      | rs144848    | GT-               | C           | ●      |
| BRCA2      | rs169547    | GG-               | C           | ●      |
| BRCA2      | rs1799944   | AA+               | G           | ●      |
| BRCA2      | rs1799954   | CC+               | A,T         | ●      |
| BRCA2      | rs1801406   | Variant not found | C,G         | ○      |
| BRCA2      | rs1801426   | AA+               | G           | ●      |
| BRCA2      | rs28897743  | GG+               | A,C,T       | ●      |
| BRCA2      | rs4942486   | CT+               | C           | ●      |
| BRCA2      | rs4987047   | AA+               | T           | ●      |
| BRCA2      | rs4987117   | CC+               | T           | ●      |
| BRCA2      | rs543304    | Variant not found | C,G         | ○      |
| BRCA2      | rs766173    | TT-               | C,G         | ●      |
| BRCA2      | rs9534262   | Variant not found | C           | ○      |
| BRCA2      | rs9567552   | Variant not found | A,T         | ○      |
| BRCA2      | rs80358807  | CC+               | T           | ●      |
| BRIP1      | rs4988345   | CC-               | A           | ●      |
| CDKN2A     | rs3731239   | Variant not found | G           | ○      |
| CHMP4C     | rs11782652  | AA+               | G           | ●      |
| CYP24A1    | rs2296241   | GG+               | A           | ●      |
| CYP2R1     | rs117913124 | Variant not found | A           | ○      |
| CYP3A4     | rs2740574   | AA-               | T           | ●      |
| ERCC2      | rs13181     | TT+               | A,G         | ●      |
| ESR1       | rs2295190   | GG+               |             | ●      |
| HNF1B      | rs757210    | AG-               | G,T         | ●      |
| INTERGENIC | rs10088218  | GG+               | A           | ●      |
| LPAR6      | rs2227311   | Variant not found | G           | ○      |
| LPAR6      | rs2854344   | Variant not found | A,T         | ○      |
| MAGEC3     | rs176026    | Variant not found | A           | ○      |
| PGR        | rs1042838   | GG-               | A,G         | ●      |
| PGR        | rs608995    | Variant not found | T           | ○      |
| PMS2       | rs7797466   | Variant not found | A           | ○      |
| PON1       | rs662       | AG-               | C           | ●      |
| RB1        | rs4151620   | Variant not found | G           | ○      |
| SRD5A2     | rs523349    | Variant not found | A,C,T       | ○      |
| TIPARP     | rs2665390   | TT+               | T           | ●      |
| TP53       | rs2287498   | AG-               | T           | ●      |
| XRCC2      | rs3218536   | GG-               | G,T         | ●      |

### Cortisol Level

| Gene | SNP | Genotype | Rare Allele | Result |
|------|-----|----------|-------------|--------|
|------|-----|----------|-------------|--------|

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| CRHR1   | rs7209436  | Variant not found | T           | ○      |
| DGKH    | rs1170109  | GT+               | T           | ●      |
| FKBP5   | rs4713902  | Variant not found | C           | ○      |
| FKBP5   | rs9394309  | Variant not found | A,G         | ○      |
| FKBP5   | rs9470080  | Variant not found | T           | ○      |
| FKBP5   | rs7748266  | Variant not found | T           | ○      |
| FKBP5   | rs1360780  | CC+               | A,C         | ●      |
| HSD11B1 | rs846910   | AG+               | A           | ●      |
| HTR2C   | rs6318     | GG+               | G,T         | ●      |
| NR3C1   | rs10052957 | Variant not found | A           | ○      |
| OXTR    | rs53576    | AA+               | A           | ●      |

### Osteoarthritis

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| ALDH1A2    | rs16939660  | Variant not found | C           | ○      |
| COG5       | rs3815148   | AA+               | C           | ●      |
| COL6A4P1   | rs11718863  | Variant not found | G,T         | ○      |
| COL6A4P1   | rs7639618   | TT+               | T           | ●      |
| COL6A4P1   | rs9864422   | Variant not found | T           | ○      |
| CRTC1      | rs10419226  | GT+               | G           | ●      |
| CSMD1      | rs10503253  | CC+               | A           | ●      |
| DIO2       | rs225014    | CC+               | C           | ●      |
| FRZB       | rs7775      | Variant not found | A,C,T       | ○      |
| FTO        | rs1121980   | CC-               | A           | ●      |
| FTO        | rs121918214 | GG+               | A           | ●      |
| GDF5       | rs143383    | CT-               | A           | ●      |
| HLA-DQB1   | rs7775228   | TT+               | C           | ●      |
| IL-1B      | rs16944     | AG+               | G           | ●      |
| IL-1RN     | rs315952    | Variant not found | A,C         | ○      |
| IL-1RN     | rs419598    | TT+               | C           | ●      |
| IL-1RN     | rs9005      | GG+               | A           | ●      |
| IL-6       | rs1800796   | GG+               | C           | ●      |
| IL-6       | rs1800797   | AG+               | G           | ●      |
| INTERGENIC | rs4140564   | AA+               | A           | ●      |
| LPAR1      | rs10980705  | Variant not found | T           | ○      |
| MCF2L      | rs11842874  | AA+               | G           | ●      |
| PON1       | rs662       | AG-               | C           | ●      |

### Osteopenia

| Gene   | SNP          | Genotype          | Rare Allele | Result |
|--------|--------------|-------------------|-------------|--------|
| CD40   | rs1883832    | CC+               | C           | ●      |
| COL1A1 | rs1057518930 | Variant not found | G           | ○      |

### Osteoporosis

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| ARHGEF3 | rs7646054   | Variant not found | G           | ○      |
| BMP2    | rs235754    | Variant not found | A,G         | ○      |
| COL1A1  | rs1800012   | GT-               | A           | ●      |
| CYP19A1 | rs12594287  | Variant not found | A           | ○      |
| CYP19A1 | rs16964201  | Variant not found | T           | ○      |
| CYP19A1 | rs17703883  | Variant not found | C           | ○      |
| ESR1    | rs9340799   | AG+               | G           | ●      |
| F12     | rs118204454 | Variant not found | G,T         | ○      |
| F12     | rs118204455 | Variant not found | C           | ○      |
| FDPS    | rs2297480   | AC-               | G           | ●      |
| FTCDNL1 | rs12615435  | Variant not found | G           | ○      |
| GAD1    | rs3762555   | Variant not found | A,G         | ○      |
| IL-1B   | rs16944     | AG+               | G           | ●      |
| LRP4    | rs2306033   | Variant not found | A           | ○      |
| LRP5    | rs3736228   | CT+               | T           | ●      |
| LRP5    | rs4988321   | CT-               | A,C         | ●      |
| NR3C1   | rs2918419   | Variant not found | C           | ○      |
| QPCT    | rs3770748   | Variant not found | G           | ○      |
| TNFSF11 | rs9525641   | Variant not found | C           | ○      |
| TNFSF11 | rs9533156   | Variant not found | C           | ○      |
| TRPM6   | rs11144134  | CT+               | C           | ●      |
| VDR     | rs1544410   | AG-               | C,T         | ●      |
| VDR     | rs2228570   | CC-               | C,T         | ●      |

| Gene  | SNP       | Genotype | Rare Allele | Result |
|-------|-----------|----------|-------------|--------|
| VDR   | rs731236  | CT-      | G           | ●      |
| VDR   | rs7975232 | AC+      | A           | ●      |
| WNT16 | rs2707466 | GG-      | G,T         | ●      |

#### Oxytocin

| Gene | SNP        | Genotype          | Rare Allele | Result |
|------|------------|-------------------|-------------|--------|
| CD38 | rs3796863  | Variant not found | T           | ○      |
| OXTR | rs1042778  | GG+               | T           | ●      |
| OXTR | rs11706648 | Variant not found | C           | ○      |
| OXTR | rs13316193 | TT+               | C           | ●      |
| OXTR | rs13983270 | Variant not found | G           | ○      |
| OXTR | rs1488467  | Variant not found | C           | ○      |
| OXTR | rs237899   | GG+               | A,C         | ●      |
| OXTR | rs53576    | AA+               | A           | ●      |

#### Progesterone

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| INTERGENIC | rs17724534  | Variant not found | T           | ○      |
| PGR        | rs1042838   | GG-               | A,G         | ●      |
| SLC22A10   | rs112295236 | CC+               | A,G         | ●      |
| ZKSCAN5    | rs34670419  | GG+               | A,T         | ●      |

#### Pelvic Organ Prolapse

| Gene   | SNP       | Genotype          | Rare Allele | Result |
|--------|-----------|-------------------|-------------|--------|
| COL3A1 | rs1800255 | AG+               | A           | ●      |
| PGR    | rs500760  | Variant not found | C           | ○      |

#### Psoriasis

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| CARD14     | rs144475004  | Variant not found | C           | ○      |
| CARD14     | rs281875212  | Variant not found | A           | ○      |
| CARD14     | rs281875213  | Variant not found | G           | ○      |
| CARD14     | rs281875214  | Variant not found | C           | ○      |
| CARD14     | rs281875215  | Variant not found | A           | ○      |
| CARD14     | rs387907240  | Variant not found | C           | ○      |
| CARD14     | rs587777763  | Variant not found | A           | ○      |
| CHUK       | rs267606736  | Variant not found | A           | ○      |
| DDX58      | rs786204848  | Variant not found | A           | ○      |
| FASLG      | rs763110     | TT+               | T           | ●      |
| FASLG      | rs80358237   | CC+               | A           | ●      |
| FASLG      | rs80358238   | Variant not found | G           | ○      |
| FUT2       | rs1047781    | Variant not found | T           | ○      |
| FUT2       | rs1800028    | Variant not found | G,T         | ○      |
| HLA-C      | rs10484554   | CC+               | T           | ●      |
| HLA-C      | rs1265181    | CC-               | C           | ●      |
| IFIH1      | rs1057524257 | Variant not found | T           | ○      |
| IKBKE      | rs1539243    | Variant not found | A,C         | ○      |
| IL-12B     | rs1368439    | Variant not found | T           | ○      |
| IL-12B     | rs3212227    | CC-               | G           | ●      |
| IL-12B     | rs3213094    | AA-               | C,T         | ●      |
| IL-13      | rs20541      | CC-               | G           | ●      |
| IL-23R     | rs11209026   | GG+               | A           | ●      |
| IL-23R     | rs2201841    | CT-               | G,T         | ●      |
| IL-31      | rs11608363   | Variant not found | T           | ○      |
| INTERGENIC | rs2546890    | GG+               | G           | ●      |
| INTERGENIC | rs4085613    | AC-               | G           | ●      |
| INTERGENIC | rs4112788    | CT-               | G,T         | ●      |
| INTERGENIC | rs4406273    | GG+               | A           | ●      |
| INTERGENIC | rs6887695    | CC+               | G           | ●      |
| KLRK1      | rs1049174    | CG-               | C           | ●      |
| POU5F1     | rs1265159    | CC-               | A,C,T       | ●      |
| PSORS1C3   | rs887466     | TT-               | A,G         | ●      |
| QTRT1      | rs892085     | CT-               | A           | ●      |
| REV3L      | rs1057519367 | Variant not found | A           | ○      |
| SLC9A3R1   | rs734232     | Variant not found | A           | ○      |
| STAT2      | rs2066807    | GG-               | G           | ●      |
| STAT2      | rs2066808    | TT-               | G           | ●      |
| STAT2      | rs781522558  | Variant not found | C,T         | ○      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| TNF     | rs1800629    | GG+               | A           | ●      |
| TNF     | rs361525     | GG+               | A           | ●      |
| TNFAIP3 | rs1064796470 | Variant not found |             | ○      |
| TNFAIP3 | rs2230926    | TT+               | C,G         | ●      |
| TNFAIP3 | rs610604     | AC-               | G,T         | ●      |
| TRIM47  | rs1055129    | TT-               | G           | ●      |
| UBAC2   | rs3825427    | Variant not found | A           | ○      |
| ZNF365  | rs2393903    | AG-               | A,C         | ●      |
| ZNF365  | rs7076156    | GG+               | C,G         | ●      |
| ZNF365  | rs7089814    | TT+               | G,T         | ●      |

#### Loss of hair

| Gene       | SNP       | Genotype          | Rare Allele | Result |
|------------|-----------|-------------------|-------------|--------|
| AR         | rs6152    | GG+               | A           | ●      |
| C1ORF127   | rs2003046 | CC+               | A,G         | ●      |
| CYP19A1    | rs6493497 | AG+               | A           | ●      |
| CYP19A1    | rs7176005 | CT+               | T           | ●      |
| EDA2R      | rs1385699 | TT+               | T           | ●      |
| GRID1      | rs2814331 | Variant not found | T           | ○      |
| HDAC9      | rs2073963 | GT+               | G           | ●      |
| HR         | rs7014851 | TT+               | C           | ●      |
| IL-1B      | rs1143634 | CT-               | A           | ●      |
| INTERGENIC | rs2180439 | CC+               | T           | ●      |
| INTERGENIC | rs2223841 | AA-               | C           | ●      |
| INTERGENIC | rs925391  | CC-               | G,T         | ●      |
| INTERGENIC | rs1998076 | Variant not found | G           | ○      |
| INTERGENIC | rs201571  | Variant not found | T           | ○      |
| INTERGENIC | rs9287638 | CC+               | A           | ●      |
| LINC01432  | rs1160312 | GG+               | G           | ●      |
| LINC01432  | rs913063  | Variant not found | C           | ○      |

#### Melatonin

| Gene   | SNP        | Genotype          | Rare Allele | Result |
|--------|------------|-------------------|-------------|--------|
| ASMT   | rs4446909  | Variant not found | G           | ○      |
| ASMT   | rs5989681  | Variant not found | G           | ○      |
| MTNR1A | rs12506228 | GT-               | A           | ●      |
| MTNR1B | rs10830963 | CC+               | G           | ●      |
| TPH2   | rs4570625  | GT+               | G           | ●      |

#### Insulin Resistance

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| ADIPOQ  | rs17300539 | GG+               | A           | ●      |
| ADRB2   | rs1042713  | GG+               | A           | ●      |
| APOA1   | rs670      | AG-               | T           | ●      |
| APOC3   | rs2854116  | AG-               | T           | ●      |
| APOC3   | rs2854117  | Variant not found | T           | ○      |
| C5ORF67 | rs459193   | TT-               | G           | ●      |
| ENPP1   | rs1044498  | AC+               | C           | ●      |
| GRB14   | rs13389219 | CT+               | C           | ●      |
| IL-6    | rs1800795  | CG+               | G           | ●      |
| IRS1    | rs1801278  | Variant not found | G,T         | ○      |
| IRS1    | rs2943641  | CT+               | C           | ●      |
| PLIN1   | rs894160   | GG-               | T           | ●      |

#### Rosacea

| Gene       | SNP      | Genotype          | Rare Allele | Result |
|------------|----------|-------------------|-------------|--------|
| INTERGENIC | rs763035 | Variant not found | A           | ○      |

#### Metabolic syndrome

| Gene    | SNP       | Genotype          | Rare Allele | Result |
|---------|-----------|-------------------|-------------|--------|
| ADRB2   | rs1042713 | GG+               | A           | ●      |
| ADRB2   | rs1042714 | GT+               | C,T         | ●      |
| APOB    | rs512535  | GG-               | C           | ●      |
| CD36    | rs1761667 | AG+               | A           | ●      |
| CYP27A1 | rs4674344 | Variant not found | T           | ○      |
| CYP2C19 | rs4244285 | Variant not found | A,C         | ○      |
| FTO     | rs8050136 | CC+               | A           | ●      |
| GHRL    | rs696217  | Variant not found | T           | ○      |

| Gene | SNP        | Genotype          | Rare Allele | Result |
|------|------------|-------------------|-------------|--------|
| GHRL | rs34911341 | CC+               | T           | ●      |
| LEPR | rs3790433  | Variant not found | G           | ○      |
| MC4R | rs2229616  | GG-               | C           | ●      |
| MTTP | rs3816873  | Variant not found | C           | ○      |
| NOS3 | rs1799983  | GG+               | T           | ●      |
| NOS3 | rs2070744  | TT+               | T           | ●      |

### Hereditary Breast and Ovary Cancer Syndrome

| Gene  | SNP        | Genotype          | Rare Allele | Result |
|-------|------------|-------------------|-------------|--------|
| BRCA1 | rs16942    | AG-               | A,C         | ●      |
| BRCA1 | rs1799950  | AA-               | C           | ●      |
| BRCA1 | rs1800709  | CC-               | A           | ●      |
| BRCA1 | rs2227945  | AA-               | C,G         | ●      |
| BRCA1 | rs4986852  | GG-               | G,T         | ●      |
| BRCA2 | rs11571746 | Variant not found | C           | ○      |
| BRCA2 | rs144848   | GT-               | C           | ●      |
| BRCA2 | rs169547   | GG-               | C           | ●      |
| BRCA2 | rs1799944  | AA+               | G           | ●      |
| BRCA2 | rs1799954  | CC+               | A,T         | ●      |
| BRCA2 | rs1801406  | Variant not found | C,G         | ○      |
| BRCA2 | rs1801426  | AA+               | G           | ●      |
| BRCA2 | rs28897743 | GG+               | A,C,T       | ●      |
| BRCA2 | rs4987047  | AA+               | T           | ●      |
| BRCA2 | rs4987117  | CC+               | T           | ●      |
| BRCA2 | rs543304   | Variant not found | C,G         | ○      |
| BRCA2 | rs766173   | TT-               | C,G         | ●      |
| BRCA2 | rs9534262  | Variant not found | C           | ○      |

### Irritable Bowel Syndrome

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| CNR1    | rs806378   | AG-               | T           | ●      |
| CRHR1   | rs242924   | Variant not found | T           | ○      |
| CRHR1   | rs7209436  | Variant not found | T           | ○      |
| HTR3E   | rs56109847 | Variant not found | A           | ○      |
| TNF     | rs1800629  | GG+               | A           | ●      |
| TNFSF15 | rs4263839  | AG+               | G           | ●      |
| TNFSF15 | rs426839   | Variant not found | A,G         | ○      |

### PCOS

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| DENND1A | rs2479106  | GG+               | G           | ●      |
| FSHR    | rs2268361  | Variant not found | C           | ○      |
| INSR    | rs1799817  | CT-               | A           | ●      |
| KISS1   | rs12998    | GG-               | T           | ●      |
| LEPR    | rs1137101  | AA+               | G           | ●      |
| LHB     | rs1056917  | Variant not found | A           | ○      |
| LHCGR   | rs13405728 | AA+               | G           | ●      |
| LHCGR   | rs2293275  | GG-               | C           | ●      |
| MARK2P9 | rs2209972  | Variant not found | C           | ○      |
| MTNR1A  | rs2119882  | Variant not found | C           | ○      |
| MTNR1B  | rs10830963 | CC+               | G           | ●      |
| SUOX    | rs705702   | TT-               | G           | ●      |
| THADA   | rs13429458 | AA+               | C           | ●      |
| TNF     | rs361525   | GG+               | A           | ●      |

### Dopamine Synthesis

| Gene | SNP         | Genotype          | Rare Allele | Result |
|------|-------------|-------------------|-------------|--------|
| DDC  | rs11575461  | Variant not found | A           | ○      |
| DDC  | rs11761683  | Variant not found | G,T         | ○      |
| DDC  | rs11974297  | Variant not found | A           | ○      |
| DDC  | rs12540874  | AG+               | C,G         | ●      |
| DDC  | rs12718541  | AG+               | G           | ●      |
| DDC  | rs137853207 | Variant not found | T           | ○      |
| DDC  | rs137853208 | Variant not found | A           | ○      |
| DDC  | rs137853209 | Variant not found | G           | ○      |
| DDC  | rs137853210 | Variant not found | G           | ○      |
| DDC  | rs137853211 | Variant not found | A,T         | ○      |
| DDC  | rs137853212 | Variant not found | G,T         | ○      |

| Gene | SNP          | Genotype          | Rare Allele | Result |
|------|--------------|-------------------|-------------|--------|
| DDC  | rs1451371    | Variant not found | C           | ○      |
| DDC  | rs1451375    | Variant not found | A           | ○      |
| DDC  | rs1470750    | Variant not found | G           | ○      |
| DDC  | rs201951824  | Variant not found | T           | ○      |
| DDC  | rs2044859    | Variant not found | A           | ○      |
| DDC  | rs2060762    | Variant not found | G           | ○      |
| DDC  | rs2242041    | Variant not found | G           | ○      |
| DDC  | rs2329340    | Variant not found | T           | ○      |
| DDC  | rs3735273    | AG-               | T           | ●      |
| DDC  | rs3757472    | GT-               | C           | ●      |
| DDC  | rs3779084    | Variant not found | G           | ○      |
| DDC  | rs3837091    | Variant not found |             | ○      |
| DDC  | rs6592961    | GG+               | A           | ●      |
| DDC  | rs771317809  | Variant not found | T           | ○      |
| DDC  | rs7809234    | AA+               | T           | ●      |
| DDC  | rs7809758    | Variant not found | G           | ○      |
| DDC  | rs880028     | Variant not found | G           | ○      |
| DDC  | rs921451     | CT+               | C           | ●      |
| DDC  | rs998850     | Variant not found | C           | ○      |
| IGF2 | rs1003483    | Variant not found | G           | ○      |
| IGF2 | rs1003484    | Variant not found | G,T         | ○      |
| IGF2 | rs1004446    | TT-               | A           | ●      |
| IGF2 | rs10770125   | AG+               | G           | ●      |
| IGF2 | rs3741204    | Variant not found | C           | ○      |
| IGF2 | rs3741205    | Variant not found | A,T         | ○      |
| IGF2 | rs3741206    | AA-               | A,C,G       | ●      |
| IGF2 | rs3741208    | CC-               | G,T         | ●      |
| IGF2 | rs3741211    | Variant not found | G           | ○      |
| IGF2 | rs4320932    | AA-               | C           | ●      |
| IGF2 | rs4366464    | Variant not found | A,C         | ○      |
| IGF2 | rs7924316    | Variant not found | G           | ○      |
| TH   | rs1057516491 | Variant not found |             | ○      |
| TH   | rs1057516736 | Variant not found | T           | ○      |
| TH   | rs1057516819 | Variant not found | T           | ○      |
| TH   | rs1057517162 | Variant not found |             | ○      |
| TH   | rs1057520384 | Variant not found | A,T         | ○      |
| TH   | rs11564717   | Variant not found | A,C         | ○      |
| TH   | rs121917762  | CC-               | A,T         | ●      |
| TH   | rs121917764  | Variant not found | A,C         | ○      |
| TH   | rs121917765  | Variant not found | A           | ○      |
| TH   | rs2070762    | CT-               | G           | ●      |
| TH   | rs28934580   | Variant not found | T           | ○      |
| TH   | rs28934581   | Variant not found | G           | ○      |
| TH   | rs3842727    | Variant not found | T           | ○      |
| TH   | rs45471299   | CC-               | A           | ●      |
| TH   | rs587776767  | Variant not found | T           | ○      |
| TH   | rs771351747  | Variant not found | C           | ○      |
| TH   | rs786204540  | Variant not found | A           | ○      |

### Serotonin Synthesis

| Gene | SNP          | Genotype          | Rare Allele | Result |
|------|--------------|-------------------|-------------|--------|
| DDC  | rs1085307991 | Variant not found | G           | ○      |
| DDC  | rs11761683   | Variant not found | G,T         | ○      |
| DDC  | rs11974297   | Variant not found | A           | ○      |
| DDC  | rs12540874   | AG+               | C,G         | ●      |
| DDC  | rs12718541   | AG+               | G           | ●      |
| DDC  | rs137853207  | Variant not found | T           | ○      |
| DDC  | rs137853208  | Variant not found | A           | ○      |
| DDC  | rs137853209  | Variant not found | G           | ○      |
| DDC  | rs137853210  | Variant not found | G           | ○      |
| DDC  | rs137853211  | Variant not found | A,T         | ○      |
| DDC  | rs137853212  | Variant not found | G,T         | ○      |
| DDC  | rs1451371    | Variant not found | C           | ○      |
| DDC  | rs1451375    | Variant not found | A           | ○      |
| DDC  | rs1470750    | Variant not found | G           | ○      |
| DDC  | rs201951824  | Variant not found | T           | ○      |
| DDC  | rs2044859    | Variant not found | A           | ○      |
| DDC  | rs2060762    | Variant not found | G           | ○      |

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| DDC     | rs2242041   | Variant not found | G           | ○      |
| DDC     | rs2329340   | Variant not found | T           | ○      |
| DDC     | rs3735273   | AG-               | T           | ●      |
| DDC     | rs3757472   | GT-               | C           | ●      |
| DDC     | rs3779084   | Variant not found | G           | ○      |
| DDC     | rs3837091   | Variant not found |             | ○      |
| DDC     | rs6264      | Variant not found | C           | ○      |
| DDC     | rs6592961   | GG+               | A           | ●      |
| DDC     | rs771317809 | Variant not found | T           | ○      |
| DDC     | rs7809234   | AA+               | T           | ●      |
| DDC     | rs7809758   | Variant not found | G           | ○      |
| DDC     | rs880028    | Variant not found | G           | ○      |
| DDC     | rs921451    | CT+               | C           | ●      |
| DDC     | rs998850    | Variant not found | C           | ○      |
| PLEKHA7 | rs366590    | Variant not found | A           | ○      |
| PTPRR   | rs11178998  | AG+               | G           | ●      |
| PTPRR   | rs2175711   | Variant not found | T           | ○      |
| PTPRR   | rs2203231   | Variant not found | C           | ○      |
| PTPRR   | rs4341581   | Variant not found | T           | ○      |
| PTPRR   | rs4489789   | Variant not found | C           | ○      |
| PTPRR   | rs78162420  | Variant not found | A           | ○      |
| TPH1    | rs1799913   | AC-               | A,T         | ●      |
| TPH1    | rs1800532   | AC-               | T           | ●      |
| TPH1    | rs2108977   | Variant not found | C           | ○      |
| TPH1    | rs211105    | Variant not found | G           | ○      |
| TPH1    | rs623580    | Variant not found | T           | ○      |
| TPH1    | rs684302    | Variant not found | T           | ○      |
| TPH1    | rs7933505   | Variant not found | A           | ○      |
| TPH2    | rs1007023   | Variant not found | T           | ○      |
| TPH2    | rs10506645  | Variant not found | T           | ○      |
| TPH2    | rs10748185  | Variant not found | A           | ○      |
| TPH2    | rs10879357  | Variant not found | G           | ○      |
| TPH2    | rs11178997  | AT+               | A           | ●      |
| TPH2    | rs11179000  | Variant not found | T           | ○      |
| TPH2    | rs11179002  | Variant not found | T           | ○      |
| TPH2    | rs11179027  | Variant not found | C           | ○      |
| TPH2    | rs11615016  | Variant not found | G           | ○      |
| TPH2    | rs120074175 | GG+               | A           | ●      |
| TPH2    | rs120074176 | CC+               | T           | ●      |
| TPH2    | rs1386482   | Variant not found | G           | ○      |
| TPH2    | rs1386483   | Variant not found | C           | ○      |
| TPH2    | rs1386486   | Variant not found | G           | ○      |
| TPH2    | rs1386493   | Variant not found | G,T         | ○      |
| TPH2    | rs1386494   | GG-               | C,G         | ●      |
| TPH2    | rs1386496   | Variant not found | A           | ○      |
| TPH2    | rs1386497   | Variant not found | A           | ○      |
| TPH2    | rs1386498   | Variant not found | G,T         | ○      |
| TPH2    | rs1473473   | Variant not found | A,T         | ○      |
| TPH2    | rs1487275   | Variant not found | A           | ○      |
| TPH2    | rs1487276   | Variant not found | C           | ○      |
| TPH2    | rs1487278   | TT+               | C           | ●      |
| TPH2    | rs17110563  | CC+               | T           | ●      |
| TPH2    | rs17110690  | Variant not found | A           | ○      |
| TPH2    | rs17110747  | Variant not found | A           | ○      |
| TPH2    | rs1843809   | TT+               | T           | ●      |
| TPH2    | rs2171363   | Variant not found | C,G         | ○      |
| TPH2    | rs4290270   | AT+               | T           | ●      |
| TPH2    | rs4469933   | Variant not found | T           | ○      |
| TPH2    | rs4565946   | CT+               | A,G,T       | ●      |
| TPH2    | rs4570625   | GT+               | G           | ●      |
| TPH2    | rs4760816   | Variant not found | T           | ○      |
| TPH2    | rs4760820   | Variant not found | G           | ○      |
| TPH2    | rs7305115   | AG+               | C,G,T       | ●      |
| TPH2    | rs7954758   | Variant not found | G           | ○      |
| TPH2    | rs7955501   | Variant not found | A           | ○      |
| TPH2    | rs7963720   | Variant not found | G,T         | ○      |

Testosterone

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| CYP17A1 | rs6162     | GG+               | A           | ●      |
| CYP19A1 | rs700518   | AA-               | C           | ●      |
| FAM9B   | rs5934505  | CT+               | G           | ●      |
| FSHR    | rs6166     | AG-               | T           | ●      |
| HSD17B2 | rs1424151  | Variant not found | G           | ○      |
| HSD17B3 | rs9409407  | GG+               | T           | ●      |
| PDE7B   | rs7774640  | Variant not found | A           | ○      |
| SHBG    | rs12150660 | GG+               | T           | ●      |
| SHBG    | rs6258     | CC+               | T           | ●      |
| SHBG    | rs727428   | AG-               | T           | ●      |

### Triglycerides

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| ABCG8      | rs6756629  | GG+               | T           | ●      |
| APOA5      | rs2075291  | Variant not found | A,T         | ○      |
| APOA5      | rs2266788  | TT-               | A           | ●      |
| APOA5      | rs3135506  | GG+               | C           | ●      |
| APOA5      | rs662799   | AA+               | T           | ●      |
| APOB       | rs693      | CT-               | A           | ●      |
| APOE       | rs7412     | TT+               | T           | ●      |
| BUD13      | rs28927680 | GG-               | G           | ●      |
| CILP2      | rs16996148 | GT+               | T           | ●      |
| DOCK7      | rs10889353 | AC+               | C,T         | ●      |
| FADS1      | rs174547   | TT+               | C           | ●      |
| FADS2      | rs174570   | CC+               | T           | ●      |
| FTO        | rs17817449 | TT+               | A,G         | ●      |
| GCKR       | rs1260326  | CT+               | C           | ●      |
| GCKR       | rs780094   | AG-               | C           | ●      |
| HMGCR      | rs3846663  | CT+               | T           | ●      |
| INTERGENIC | rs12130333 | CT+               | C           | ●      |
| JMJD1C     | rs10761731 | Variant not found | T           | ○      |
| LDLR       | rs6511720  | GG+               | T           | ●      |
| LEPR       | rs1805134  | TT+               | C           | ●      |
| LIPC       | rs1800588  | CC+               | T           | ●      |
| LPL        | rs13702    | AG-               | A,C         | ●      |
| LPL        | rs285      | CT+               | T           | ●      |
| LPL        | rs320      | GT+               | G           | ●      |
| LPL        | rs328      | Variant not found | G           | ○      |
| LYPLAL1    | rs2605100  | GG+               | G           | ●      |
| MLXIPL     | rs1051921  | Variant not found | A           | ○      |
| OR4A46P    | rs7395662  | GG+               | A           | ●      |
| PCIF1      | rs7679     | TT+               | C           | ●      |
| PCSK9      | rs505151   | Variant not found | G           | ○      |
| PHYHIP     | rs4871976  | Variant not found | A           | ○      |
| PPARG      | rs1801282  | CG+               | C           | ●      |
| RAB11B     | rs2967605  | GG-               | T           | ●      |
| SHBG       | rs6259     | Variant not found | A           | ○      |
| SUGP1      | rs10401969 | CT+               | C           | ●      |
| TBL2       | rs17145738 | CC+               | T           | ●      |
| TMEM241    | rs9949617  | CC+               | T           | ●      |
| TRIB1      | rs2954029  | AT+               | T           | ●      |
| XKR6       | rs7819412  | AG+               | A,T         | ●      |
| ZPR1       | rs964184   | CC+               | C           | ●      |

### Vitamin D requirement

| Gene   | SNP        | Genotype | Rare Allele | Result |
|--------|------------|----------|-------------|--------|
| CYP2R1 | rs10741657 | GG+      | G           | ●      |
| GC     | rs2282679  | AA-      | G           | ●      |

### Vitamin A

| Gene | SNP         | Genotype | Rare Allele | Result |
|------|-------------|----------|-------------|--------|
| BCO1 | rs119478057 | CC+      | T           | ●      |
| BCO1 | rs12934922  | AA+      | G,T         | ●      |
| BCO1 | rs6564851   | TT+      | G           | ●      |
| BCO1 | rs7501331   | CC+      | T           | ●      |

### Vitamin B1 (Thiamine)

| Gene | SNP | Genotype | Rare Allele | Result |
|------|-----|----------|-------------|--------|
|------|-----|----------|-------------|--------|

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| PNPLA3   | rs738409    | GG-               | G           | ●      |
| SLC19A2  | rs28937595  | GG-               | A           | ●      |
| SLC19A2  | rs121908540 | CC-               | T           | ●      |
| SLC19A2  | rs74315373  | Variant not found | T           | ○      |
| SLC19A2  | rs74315374  | GG-               | A           | ●      |
| SLC19A2  | rs74315375  | Variant not found | A           | ○      |
| SLC19A3  | rs121917884 | Variant not found | G           | ○      |
| SLC19A3  | rs121917882 | GG-               | A           | ●      |
| SLC25A19 | rs119473030 | Variant not found | C           | ○      |
| SLC25A19 | rs387906944 | Variant not found | A           | ○      |
| SLC35F3  | rs34032258  | CC+               | G           | ●      |
| TPK1     | rs371271054 | TT+               | C           | ●      |

#### Vitamin B3 (Niacin)

| Gene  | SNP        | Genotype          | Rare Allele | Result |
|-------|------------|-------------------|-------------|--------|
| BST1  | rs4698412  | AA+               | A           | ●      |
| CD38  | rs6449182  | Variant not found | G           | ○      |
| GAD1  | rs2241165  | AA-               | T           | ●      |
| NAMPT | rs61330082 | CC-               | A           | ●      |
| SIRT1 | rs12778366 | TT+               | C           | ●      |
| SIRT3 | rs511744   | CC+               | T           | ●      |
| SIRT6 | rs352493   | TT+               | C           | ●      |

#### Vitamin B5 (Pantothenic Acid)

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| ABCA1    | rs1883025   | AG-               | T           | ●      |
| ABCG8    | rs6544713   | CC+               | C           | ●      |
| AHCY     | rs13043752  | Variant not found | A           | ○      |
| AHCY     | rs41301825  | Variant not found | T           | ○      |
| AIRE     | rs1055311   | Variant not found | G,T         | ○      |
| AIRE     | rs1800520   | Variant not found | A,G,T       | ○      |
| ANAPC4   | rs3816587   | Variant not found | T           | ○      |
| ANXA3    | rs2867461   | AG+               | G,T         | ●      |
| AOC1     | rs10156191  | Variant not found | T           | ○      |
| APOA5    | rs2075291   | Variant not found | A,T         | ○      |
| APOA5    | rs2266788   | TT-               | A           | ●      |
| APOA5    | rs3135506   | GG+               | C           | ●      |
| APOC1    | rs4420638   | AA+               | G           | ●      |
| APOE     | rs7412      | TT+               | T           | ●      |
| AR       | rs5031002   | GG+               | A           | ●      |
| BRCA2    | rs4942486   | CT+               | C           | ●      |
| C5       | rs10985112  | GG+               | A           | ●      |
| CDK6     | rs42041     | Variant not found |             | ○      |
| CDK6     | rs606231255 | Variant not found | T           | ○      |
| CPS1     | rs1047891   | CC+               | A           | ●      |
| CR1L     | rs4844614   | GT+               | T           | ●      |
| CTLA4    | rs3087243   | AG+               | G           | ●      |
| DNAH11   | rs12670798  | TT+               | C           | ●      |
| DOCK7    | rs10889353  | AC+               | C,T         | ●      |
| EOMES    | rs3806624   | CT-               | G           | ●      |
| FABP2    | rs1799883   | GG-               | A,C,G       | ●      |
| FADS1    | rs174547    | TT+               | C           | ●      |
| FADS2    | rs174570    | CC+               | T           | ●      |
| FCRL3    | rs7528684   | AG+               | G           | ●      |
| GAD1     | rs1978340   | Variant not found | A           | ○      |
| GAD1     | rs3762555   | Variant not found | A,G         | ○      |
| GAD1     | rs3791878   | Variant not found | T           | ○      |
| GCKR     | rs1260326   | CT+               | C           | ●      |
| GPX1     | rs1050450   | CC-               | A           | ●      |
| GUCY1B2  | rs3790022   | CC-               | A           | ●      |
| HLA-DQA1 | rs12722051  | Variant not found | T           | ○      |
| HLA-DRB1 | rs6457617   | TT+               | A,T         | ●      |
| HLA-DRB1 | rs660895    | GG+               | G           | ●      |
| HTR2A    | rs1328674   | AG-               | C,G         | ●      |
| HTR2A    | rs6314      | CC-               | A           | ●      |
| HYKK     | rs8034191   | TT+               | C           | ●      |
| ICAM3    | rs2304240   | AG+               | G           | ●      |
| IL-2RA   | rs2104286   | AG-               | C           | ●      |

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| IL-2RB     | rs743777    | AG+               | G           | ●      |
| INTERGENIC | rs11162922  | Variant not found | G           | ○      |
| INTERGENIC | rs11761231  | CT+               | C           | ●      |
| INTERGENIC | rs13192841  | GG+               | A           | ●      |
| INTERGENIC | rs2327832   | AG+               | G           | ●      |
| INTERGENIC | rs2837960   | GT+               | A,G         | ●      |
| INTERGENIC | rs2872507   | AG+               | A           | ●      |
| INTERGENIC | rs6920220   | AG+               | A           | ●      |
| INTERGENIC | rs9550642   | Variant not found | A           | ○      |
| IRF5       | rs2004640   | Variant not found | G           | ○      |
| ITGAV      | rs3738919   | AA+               | A           | ●      |
| JMJD1C     | rs10761731  | Variant not found | T           | ○      |
| KIAA1109   | rs13119723  | GG+               | G           | ●      |
| KIAA1109   | rs6822844   | GT+               | T           | ●      |
| LDLR       | rs6511720   | GG+               | T           | ●      |
| LPL        | rs13702     | AG-               | A,C         | ●      |
| LPL        | rs285       | CT+               | T           | ●      |
| LPL        | rs320       | GT+               | G           | ●      |
| LPL        | rs328       | Variant not found | G           | ○      |
| MAT1A      | rs118204001 | TT-               | C           | ●      |
| MAT1A      | rs2993763   | Variant not found | A           | ○      |
| MAT1A      | rs72558181  | Variant not found | T           | ○      |
| MCT1       | rs1049434   | Variant not found | T           | ○      |
| MLXIPL     | rs1051921   | Variant not found | A           | ○      |
| MMEL1      | rs3890745   | Variant not found | C           | ○      |
| MMEL1      | rs6684865   | Variant not found | A           | ○      |
| MTHFR      | rs2066470   | Variant not found | A,C         | ○      |
| NAF1       | rs7675998   | GG+               | G,T         | ●      |
| NFKBIE     | rs2233434   | TT-               | G           | ●      |
| NFKBIE     | rs2233437   | Variant not found | A           | ○      |
| NOD2       | rs2066845   | GG+               | C,T         | ●      |
| OR4A46P    | rs7395662   | GG+               | A           | ●      |
| PADI4      | rs11203366  | AG+               | A           | ●      |
| PADI4      | rs2240340   | AG-               | C           | ●      |
| PCIF1      | rs7679      | TT+               | C           | ●      |
| PHF19      | rs1953126   | Variant not found | C           | ○      |
| PHTF1      | rs6679677   | CC+               | A           | ●      |
| PHYHIP     | rs4871976   | Variant not found | A           | ○      |
| PLD4       | rs2841277   | CT+               | T           | ●      |
| PSMA4      | rs12901682  | CC+               | C,T         | ●      |
| PTPN2      | rs1893217   | CC-               | G           | ●      |
| PTPN2      | rs2542151   | GG+               | T           | ●      |
| PTPN22     | rs2476601   | GG+               | G           | ●      |
| PTPN22     | rs2488457   | Variant not found | A,C         | ○      |
| RAB11B     | rs2967605   | GG-               | T           | ●      |
| SLC6A11    | rs1809529   | CT+               | T           | ●      |
| STAT4      | rs10181656  | CG+               | C           | ●      |
| STAT4      | rs7574865   | GT+               | G           | ●      |
| TMEM241    | rs9949617   | CC+               | T           | ●      |
| TNF        | rs1800610   | CT-               | A           | ●      |
| TRAF1      | rs10818488  | Variant not found | G           | ○      |
| TRAF1/C5   | rs3761847   | AA+               | A           | ●      |
| UBASH3A    | rs11203203  | AG+               | A           | ●      |
| VAR2       | rs4678      | CC-               | A           | ●      |
| WDFY4      | rs877819    | AG+               | G           | ●      |
| ZNF175     | rs1543922   | CC+               | T           | ●      |
| ZPR1       | rs964184    | CC+               | C           | ●      |

Vitamin B6

| Gene  | SNP        | Genotype | Rare Allele | Result |
|-------|------------|----------|-------------|--------|
| ABCA1 | rs1883025  | AG-      | T           | ●      |
| ABCB1 | rs10248420 | AA+      | G,T         | ●      |
| ABCB1 | rs1128503  | CT-      | G           | ●      |
| ABCB1 | rs11983225 | TT+      | C           | ●      |
| ABCB1 | rs2032583  | TT-      | G           | ●      |
| ABCB1 | rs2235015  | GG-      | A,T         | ●      |
| ABCB1 | rs2235040  | GG-      | A,G,T       | ●      |
| ABCB1 | rs2235067  | GG-      | T           | ●      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| ABCB1   | rs3213619    | TT-               | G           | ●      |
| ABCB1   | rs4148739    | AA-               | C           | ●      |
| ADA     | rs73598374   | GG-               | A,G,T       | ●      |
| ADORA2A | rs5751876    | Variant not found | C           | ○      |
| AHCY    | rs13043752   | Variant not found | A           | ○      |
| AHCY    | rs41312290   | Variant not found | C           | ○      |
| ALPL    | rs1697421    | GG-               | T           | ●      |
| ALPL    | rs1780316    | Variant not found | C           | ○      |
| ALPL    | rs1106357    | Variant not found | T           | ○      |
| ALPL    | rs1256335    | TT-               | G           | ●      |
| ARMS2   | rs10490924   | GT+               | T           | ●      |
| ARMS2   | rs3750847    | Variant not found | T           | ○      |
| BCR     | rs2156921    | Variant not found | A           | ○      |
| BCR     | rs2267012    | Variant not found | A           | ○      |
| BCR     | rs2267013    | Variant not found | G           | ○      |
| BCR     | rs2267015    | Variant not found | G,T         | ○      |
| BCR     | rs3313172    | Variant not found |             | ○      |
| BCR     | rs3761418    | Variant not found | G           | ○      |
| BDNF    | rs6265       | GG-               | T           | ●      |
| C2      | rs547154     | CC-               | T           | ●      |
| C2      | rs9332739    | GG+               | A,C         | ●      |
| C3      | rs2230199    | CG-               | C,T         | ●      |
| C3      | rs2230201    | Variant not found | G,T         | ○      |
| C3      | rs2230205    | AG-               | T           | ●      |
| C3      | rs2287845    | Variant not found | A           | ○      |
| CBS     | rs121964972  | CC-               | A           | ●      |
| CBS     | rs1801181    | Variant not found | A           | ○      |
| CBS     | rs2851391    | CT+               | C           | ●      |
| CBS     | rs28934891   | GG-               | T           | ●      |
| CBS     | rs5742905    | TT-               | G           | ●      |
| CETP    | rs1532624    | TT-               | A           | ●      |
| CETP    | rs17231520   | Variant not found | A           | ○      |
| CETP    | rs1864163    | GG+               | A           | ●      |
| CETP    | rs2303790    | AA+               | G           | ●      |
| CETP    | rs5880       | GG+               | C           | ●      |
| CETP    | rs5882       | AG+               | A           | ●      |
| CETP    | rs708272     | CT-               | A           | ●      |
| CFB     | rs4151667    | TT+               | A           | ●      |
| CFH     | rs1061147    | CC+               | C           | ●      |
| CFH     | rs1061170    | TT+               | T           | ●      |
| CFH     | rs1065489    | GT+               | T           | ●      |
| CFH     | rs1329428    | AG-               | T           | ●      |
| CFH     | rs3753394    | CT+               | T           | ●      |
| CFH     | rs800292     | CT-               | A           | ●      |
| CHRM2   | rs1824024    | GT-               | A           | ●      |
| CHRM2   | rs2061174    | CT-               | A,C         | ●      |
| CHRM2   | rs324650     | AT+               | A           | ●      |
| CLOCK   | rs1801260    | AA+               | C,G,T       | ●      |
| COL8A1  | rs13081855   | GG+               | T           | ●      |
| COL8A1  | rs13095226   | Variant not found | C           | ○      |
| COMT    | rs4680       | AG+               | A           | ●      |
| CRYBB2  | rs74315489   | Variant not found |             | ○      |
| CRYBB3  | rs74315490   | GG+               |             | ●      |
| CRYGD   | rs28931605   | Variant not found |             | ○      |
| CX3CR1  | rs3732378    | AG+               | A           | ●      |
| CX3CR1  | rs3732379    | CT+               | T           | ●      |
| DAT     | rs1064795122 | Variant not found | T           | ○      |
| DCDC2   | rs7765678    | Variant not found | C           | ○      |
| DCDC2   | rs793862     | Variant not found | C,G,T       | ○      |
| DCDC2   | rs807701     | Variant not found | A           | ○      |
| DTNBP1  | rs2619522    | GT-               | C           | ●      |
| EPHA2   | rs116506614  | CC+               |             | ●      |
| EPHA2   | rs3754334    | CC-               | A           | ●      |
| FGD6    | rs12310399   | Variant not found | C           | ○      |
| FGF20   | rs1721100    | Variant not found | G,T         | ○      |
| FKBP5   | rs1360780    | CC+               | A,C         | ●      |
| GAD1    | rs10432420   | Variant not found | A           | ○      |
| GAD1    | rs12185692   | Variant not found | A           | ○      |

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| GAD1       | rs1978340   | Variant not found | A           | ○      |
| GAD1       | rs2058725   | Variant not found | C           | ○      |
| GAD1       | rs2241165   | AA-               | T           | ●      |
| GAD1       | rs3762555   | Variant not found | A,G         | ○      |
| GAD1       | rs3791850   | Variant not found | A,C         | ○      |
| GAD1       | rs3791851   | Variant not found | C           | ○      |
| GAD1       | rs3791878   | Variant not found | T           | ○      |
| GAD1       | rs3828275   | Variant not found | T           | ○      |
| GAD1       | rs701492    | TT+               | T           | ●      |
| GAD1       | rs769407    | Variant not found | C           | ○      |
| GJA8       | rs2132397   | Variant not found |             | ○      |
| GJA8       | rs6657114   | Variant not found |             | ○      |
| GJA8       | rs6688578   | Variant not found |             | ○      |
| GJA8       | rs7541950   | Variant not found |             | ○      |
| GJA8       | rs864309684 | Variant not found |             | ○      |
| GPHN       | rs104894470 | CC+               | T           | ●      |
| GPX4       | rs713041    | Variant not found | A,C         | ○      |
| GRIA3      | rs3848874   | GG+               | A,T         | ●      |
| GRIA3      | rs687577    | CC+               | C           | ●      |
| GSR        | rs3594      | Variant not found | A           | ○      |
| HTR2A      | rs1328674   | AG-               | C,G         | ●      |
| HTR2A      | rs6314      | CC-               | A           | ●      |
| HTR2C      | rs3813929   | CC+               | G,T         | ●      |
| HTRA1      | rs11200638  | AG+               | A           | ●      |
| HTRA1      | rs932275    | Variant not found | A           | ○      |
| IL-1B      | rs16944     | AG+               | G           | ●      |
| INTERGENIC | rs1031681   | Variant not found | C           | ○      |
| INTERGENIC | rs10468017  | CC+               | T           | ●      |
| INTERGENIC | rs12678919  | AA+               | G           | ●      |
| INTERGENIC | rs1545843   | AG+               | A           | ●      |
| INTERGENIC | rs493258    | AG-               | C           | ●      |
| KIAA0319   | rs4504469   | CC+               | G,T         | ●      |
| KIAA0319   | rs761100    | TT-               | C           | ●      |
| MAF        | rs121917735 | Variant not found | G,T         | ○      |
| MAF        | rs121917736 | Variant not found | C           | ○      |
| MAF        | rs786205221 | Variant not found | T           | ○      |
| MAOA       | rs909525    | GG-               | T           | ●      |
| MTHFR      | rs1476413   | AG-               | G,T         | ●      |
| MTHFR      | rs17037390  | Variant not found | A           | ○      |
| MTHFR      | rs1801131   | AC-               | G           | ●      |
| MTHFR      | rs1801133   | CC-               | A           | ●      |
| MTHFR      | rs2066470   | Variant not found | A,C         | ○      |
| MTHFR      | rs4846049   | Variant not found | A,G         | ○      |
| MTRR       | rs1801394   | AA+               | G           | ●      |
| NBPF3      | rs4654748   | CT+               | T           | ●      |
| NOTCH4     | rs422951    | AG-               | C           | ●      |
| NPAS2      | rs11123857  | Variant not found | G           | ○      |
| NR3C1      | rs6198      | Variant not found | C           | ○      |
| OXTR       | rs2254298   | GG+               | A           | ●      |
| OXTR       | rs237899    | GG+               | A,C         | ●      |
| PDE11A     | rs3770018   | Variant not found | C           | ○      |
| PDE9A      | rs729861    | Variant not found | G           | ○      |
| PITX2      | rs6533526   | GG+               | A           | ●      |
| REST       | rs1713985   | AC-               | T           | ●      |
| REST       | rs2227902   | GG+               | T           | ●      |
| REST       | rs3796530   | Variant not found | A           | ○      |
| SERPINF1   | rs1136287   | CT+               | T           | ●      |
| SKIV2L     | rs2734331   | TT-               | G           | ●      |
| SKIV2L     | rs429608    | GG+               | A           | ●      |
| SLC64A     | rs25531     | Variant not found | C,G         | ○      |
| SOD2       | rs4880      | CT-               | G           | ●      |
| TDP2       | rs2143340   | TT-               | G,T         | ●      |
| TLR3       | rs3775291   | GG-               | G,T         | ●      |
| TPH1       | rs1799913   | AC-               | A,T         | ●      |
| TPH1       | rs7933505   | Variant not found | A           | ○      |
| TTRAP      | rs3212236   | Variant not found | C           | ○      |
| VEGFA      | rs3025039   | CC+               | T           | ●      |

Vitamin B7 (Biotin)

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| ABCA1      | rs1883025   | AG-               | T           | ●      |
| ACHE       | rs1799805   | Variant not found | T           | ○      |
| ACHE       | rs2571598   | Variant not found | G,T         | ○      |
| ACP7       | rs472265    | AA+               | G           | ●      |
| ADRA2A     | rs553668    | Variant not found | G,T         | ○      |
| AR         | rs6152      | GG+               | A           | ●      |
| ARL15      | rs1694089   | Variant not found | C           | ○      |
| ARMS2      | rs3750847   | Variant not found | T           | ○      |
| C2         | rs547154    | CC-               | T           | ●      |
| C3         | rs2230199   | CG-               | C,T         | ●      |
| C3         | rs2230201   | Variant not found | G,T         | ○      |
| C3         | rs2230205   | AG-               | T           | ●      |
| C3         | rs2287845   | Variant not found | A           | ○      |
| CAPN10     | rs3792267   | GG+               | A           | ●      |
| CDKAL1     | rs4712523   | AG+               | G           | ●      |
| CDKAL1     | rs7756992   | AG+               | G,T         | ●      |
| CDKN2A     | rs10811661  | TT+               | T           | ●      |
| CDKN2A/B   | rs2383208   | AA+               | G,T         | ●      |
| CDKN2B-AS1 | rs2383206   | Variant not found | G           | ○      |
| CETP       | rs1532624   | TT-               | A           | ●      |
| CETP       | rs17231520  | Variant not found | A           | ○      |
| CETP       | rs1864163   | GG+               | A           | ●      |
| CETP       | rs2303790   | AA+               | G           | ●      |
| CETP       | rs5880      | GG+               | C           | ●      |
| CETP       | rs5882      | AG+               | A           | ●      |
| CETP       | rs708272    | CT-               | A           | ●      |
| CFH        | rs1061147   | CC+               | C           | ●      |
| CFH        | rs1061170   | TT+               | T           | ●      |
| CFH        | rs1065489   | GT+               | T           | ●      |
| CFH        | rs1329428   | AG-               | T           | ●      |
| CFH        | rs3753394   | CT+               | T           | ●      |
| CFH        | rs800292    | CT-               | A           | ●      |
| COL8A1     | rs13081855  | GG+               | T           | ●      |
| COL8A1     | rs13095226  | Variant not found | C           | ○      |
| CRYBB2     | rs74315489  | Variant not found |             | ○      |
| CRYGD      | rs28931605  | Variant not found |             | ○      |
| CX3CR1     | rs3732378   | AG+               | A           | ●      |
| CX3CR1     | rs3732379   | CT+               | T           | ●      |
| DNER       | rs1861612   | AG+               | A,C         | ●      |
| EPHA2      | rs3754334   | CC-               | A           | ●      |
| FGD6       | rs12310399  | Variant not found | C           | ○      |
| FGFR3      | rs121913482 | CC+               | T           | ●      |
| FGFR3      | rs121913483 | CC+               | A,G,T       | ●      |
| FTO        | rs1121980   | CC-               | A           | ●      |
| GAD1       | rs10432420  | Variant not found | A           | ○      |
| GAD1       | rs12185692  | Variant not found | A           | ○      |
| GAD1       | rs2058725   | Variant not found | C           | ○      |
| GAD1       | rs2241165   | AA-               | T           | ●      |
| GAD1       | rs3762555   | Variant not found | A,G         | ○      |
| GAD1       | rs3791850   | Variant not found | A,C         | ○      |
| GAD1       | rs3791851   | Variant not found | C           | ○      |
| GAD1       | rs3791878   | Variant not found | T           | ○      |
| GAD1       | rs3828275   | Variant not found | T           | ○      |
| GAD1       | rs701492    | TT+               | T           | ●      |
| GAD1       | rs769407    | Variant not found | C           | ○      |
| GCKR       | rs780094    | AG-               | C           | ●      |
| GJA8       | rs2132397   | Variant not found |             | ○      |
| GJA8       | rs6657114   | Variant not found |             | ○      |
| GJA8       | rs6688578   | Variant not found |             | ○      |
| GRK5       | rs17098707  | Variant not found | T           | ○      |
| GSR        | rs3594      | Variant not found | A           | ○      |
| HHEX       | rs1111875   | Variant not found | T           | ○      |
| HHEX       | rs5015480   | TT+               | T           | ●      |
| HTRA1      | rs11200638  | AG+               | A           | ●      |
| HTRA1      | rs932275    | Variant not found | A           | ○      |
| IL-6       | rs1800795   | CG+               | G           | ●      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| INTERGENIC | rs12678919   | AA+               | G           | ●      |
| INTERGENIC | rs2223841    | AA-               | C           | ●      |
| INTERGENIC | rs6113491    | Variant not found | C           | ○      |
| INTERGENIC | rs6625163    | AA+               | A           | ●      |
| IRS1       | rs2943641    | CT+               | C           | ●      |
| JAZF1      | rs1635852    | CT+               | C           | ●      |
| KCNJ11     | rs5215       | TT+               | T           | ●      |
| KCNJ11     | rs5219       | CC+               | T           | ●      |
| KCNQ1      | rs2283228    | AA+               | C           | ●      |
| MAF        | rs121917735  | Variant not found | G,T         | ○      |
| MAF        | rs121917736  | Variant not found | C           | ○      |
| MTTP       | rs3816873    | Variant not found | C           | ○      |
| NOS3       | rs1800783    | Variant not found | C,G,T       | ○      |
| NOS3       | rs3918188    | Variant not found | A,T         | ○      |
| NOTCH2     | rs10923931   | Variant not found | T           | ○      |
| NOTCH2     | rs2793831    | Variant not found | C           | ○      |
| NOTCH4     | rs422951     | AG-               | C           | ●      |
| PAX4       | rs2233578    | Variant not found | A,T         | ○      |
| PAX4       | rs2233580    | GG-               | T           | ●      |
| PITX2      | rs6533526    | GG+               | A           | ●      |
| PPARG      | rs13306747   | Variant not found | A,G,T       | ○      |
| PPARG      | rs1801282    | CG+               | C           | ●      |
| PPARG      | rs2197423    | Variant not found | A           | ○      |
| RBMS1      | rs6718526    | Variant not found | C           | ○      |
| REST       | rs1713985    | AC-               | T           | ●      |
| REST       | rs2227902    | GG+               | T           | ●      |
| REST       | rs3796530    | Variant not found | A           | ○      |
| RHOU       | rs6426514    | GG+               | A           | ●      |
| RPSAP52    | rs1531343    | CC+               | C,T         | ●      |
| SKIV2L     | rs2734331    | TT-               | G           | ●      |
| SKIV2L     | rs429608     | GG+               | A           | ●      |
| SLC2A14    | rs12815313   | Variant not found | G,T         | ○      |
| SLC30A8    | rs13266634   | CC+               | A,T         | ●      |
| SOD2       | rs2758331    | Variant not found | A           | ○      |
| TCF7L2     | rs12255372   | GG+               | T           | ●      |
| TGFBR3     | rs1805110    | CC-               | A           | ●      |
| TLR3       | rs3775291    | GG-               | G,T         | ●      |
| TRIB3      | rs2295490    | AG+               | G,T         | ●      |
| TRPS1      | rs1057518791 | Variant not found | T           | ○      |
| VEGFA      | rs3025039    | CC+               | T           | ●      |
| VPS26A     | rs4812829    | AG+               | A           | ●      |
| VPS33B     | rs121434383  | Variant not found | A           | ○      |

Vitamin B9 (Folic Acid)

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| ABCB1   | rs10248420 | AA+               | G,T         | ●      |
| ABCB1   | rs1128503  | CT-               | G           | ●      |
| ABCB1   | rs11983225 | TT+               | C           | ●      |
| ABCB1   | rs2032583  | TT-               | G           | ●      |
| ABCB1   | rs2235015  | GG-               | A,T         | ●      |
| ABCB1   | rs2235040  | GG-               | A,G,T       | ●      |
| ABCB1   | rs2235067  | GG-               | T           | ●      |
| ABCB1   | rs3213619  | TT-               | G           | ●      |
| ABCB1   | rs4148739  | AA-               | C           | ●      |
| ADA     | rs73598374 | GG-               | A,G,T       | ●      |
| ADORA2A | rs5751876  | Variant not found | C           | ○      |
| AHCY    | rs13043752 | Variant not found | A           | ○      |
| AHCY    | rs41312290 | Variant not found | C           | ○      |
| AVPR1A  | rs10877969 | Variant not found | C           | ○      |
| AVPR1A  | rs11174811 | Variant not found | A           | ○      |
| BCR     | rs2156921  | Variant not found | A           | ○      |
| BCR     | rs2267012  | Variant not found | A           | ○      |
| BCR     | rs2267013  | Variant not found | G           | ○      |
| BCR     | rs2267015  | Variant not found | G,T         | ○      |
| BCR     | rs3313172  | Variant not found |             | ○      |
| BCR     | rs3761418  | Variant not found | G           | ○      |
| BDNF    | rs6265     | GG-               | T           | ●      |
| BHMT    | rs6875201  | Variant not found | G           | ○      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| BTNL2      | rs2076530    | AG-               | C           | ●      |
| BTNL2      | rs3817964    | Variant not found | A           | ○      |
| CBS        | rs234706     | GG+               | A           | ●      |
| CBS        | rs28934891   | GG-               | T           | ●      |
| CHRM2      | rs1824024    | GT-               | A           | ●      |
| CHRM2      | rs2061174    | CT-               | A,C         | ●      |
| CHRM2      | rs324650     | AT+               | A           | ●      |
| CLOCK      | rs1801260    | AA+               | C,G,T       | ●      |
| CTLA4      | rs231775     | AG+               | G           | ●      |
| CYP24A1    | rs2296241    | GG+               | A           | ●      |
| DAT        | rs1064795122 | Variant not found | T           | ○      |
| DHFR       | rs1643649    | Variant not found | C           | ○      |
| DPYD       | rs1801266    | CC-               | A           | ●      |
| DPYD       | rs1801267    | GG-               | T           | ●      |
| DPYD       | rs1801268    | GG-               | A           | ●      |
| FGF20      | rs1721100    | Variant not found | G,T         | ○      |
| FKBP5      | rs1360780    | CC+               | A,C         | ●      |
| FOLR3      | rs7925545    | AA+               | G           | ●      |
| FOLR3      | rs7926875    | Variant not found | A           | ○      |
| FOXE1      | rs10984009   | Variant not found | A           | ○      |
| GAD1       | rs12185692   | Variant not found | A           | ○      |
| GAD1       | rs1978340    | Variant not found | A           | ○      |
| GAD1       | rs3762555    | Variant not found | A,G         | ○      |
| GAD1       | rs3791878    | Variant not found | T           | ○      |
| GGCX       | rs28928872   | Variant not found | G           | ○      |
| GPHN       | rs104894470  | CC+               | T           | ●      |
| GPX4       | rs713041     | Variant not found | A,C         | ○      |
| GTF2I      | rs2527367    | Variant not found | C           | ○      |
| HCG9       | rs6904029    | Variant not found | A           | ○      |
| HERC2      | rs1057518934 | Variant not found | G           | ○      |
| HERC2      | rs1057519727 | Variant not found | G           | ○      |
| HLA-DRA    | rs3135391    | CC-               | A           | ●      |
| HLA-DRB1   | rs660895     | GG+               | G           | ●      |
| HTR2A      | rs1328674    | AG-               | C,G         | ●      |
| HTR2A      | rs6314       | CC-               | A           | ●      |
| HTR2C      | rs3813929    | CC+               | G,T         | ●      |
| IKZF4      | rs10876864   | AA+               | A           | ●      |
| IL-1B      | rs16944      | AG+               | G           | ●      |
| IL4R       | rs1801275    | Variant not found | G           | ○      |
| INS        | rs689        | AT-               | A           | ●      |
| INTERGENIC | rs1031681    | Variant not found | C           | ○      |
| INTERGENIC | rs1417210    | CT-               | A,C         | ●      |
| INTERGENIC | rs1545843    | AG+               | A           | ●      |
| LPP        | rs1152846    | AG-               | C           | ●      |
| MAOA       | rs909525     | GG-               | T           | ●      |
| MGMT       | rs2308327    | AA+               | G           | ●      |
| MTHFD1     | rs1076991    | AG-               | C,G         | ●      |
| MTHFD1     | rs2236225    | CC-               | A           | ●      |
| MTHFR      | rs1476413    | AG-               | G,T         | ●      |
| MTHFR      | rs17037390   | Variant not found | A           | ○      |
| MTHFR      | rs1801131    | AC-               | G           | ●      |
| MTHFR      | rs1801133    | CC-               | A           | ●      |
| MTHFR      | rs4846049    | Variant not found | A,G         | ○      |
| MTR        | rs1805087    | GG+               | G           | ●      |
| MTRR       | rs1801394    | AA+               | G           | ●      |
| MYT1L      | rs869320675  | GG-               | T           | ●      |
| MYT1L      | rs869320676  | Variant not found | C           | ○      |
| NGF        | rs6330       | CC-               | A           | ●      |
| NOS3       | rs1800783    | Variant not found | C,G,T       | ○      |
| NPAS2      | rs11123857   | Variant not found | G           | ○      |
| NR3C1      | rs6198       | Variant not found | C           | ○      |
| OXTR       | rs2254298    | GG+               | A           | ●      |
| OXTR       | rs237899     | GG+               | A,C         | ●      |
| PDE11A     | rs3770018    | Variant not found | C           | ○      |
| PDE9A      | rs729861     | Variant not found | G           | ○      |
| RGS2       | rs4606       | CC+               | G           | ●      |
| RPGRIP1L   | rs121918197  | AA-               | A,G         | ●      |
| RPGRIP1L   | rs4784319    | Variant not found | T           | ○      |

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| RPGRIP1L | rs61747071  | CC+               | T           | ●      |
| SELENON  | rs11247735  | Variant not found | A,C         | ○      |
| SLC1A2   | rs886037942 | Variant not found | G,T         | ○      |
| SLC1A2   | rs886037943 | Variant not found | G           | ○      |
| SLC64A   | rs140701    | Variant not found | T           | ○      |
| SLC64A   | rs25531     | Variant not found | C,G         | ○      |
| STAT4    | rs10181656  | CG+               | C           | ●      |
| TCN2     | rs1801198   | GG+               | A,C         | ●      |
| TG       | rs121912646 | Variant not found | G,T         | ○      |
| TG       | rs121912647 | Variant not found | C           | ○      |
| TGFBR1   | rs334348    | Variant not found | G,T         | ○      |
| TGFBR1   | rs334349    | Variant not found | A           | ○      |
| TICAM1   | rs2292151   | CT-               | A           | ●      |
| TPH1     | rs1799913   | AC-               | A,T         | ●      |
| TPH1     | rs7933505   | Variant not found | A           | ○      |
| TPH2     | rs4565946   | CT+               | A,G,T       | ●      |
| TPH2     | rs4570625   | GT+               | G           | ●      |
| TYR      | rs28940879  | Variant not found | A,C         | ○      |

### Vitamin C

| Gene     | SNP        | Genotype          | Rare Allele | Result |
|----------|------------|-------------------|-------------|--------|
| ABCA1    | rs1883025  | AG-               | T           | ●      |
| ABCB1    | rs1128503  | CT-               | G           | ●      |
| ABCB1    | rs3213619  | TT-               | G           | ●      |
| ABI3BP   | rs9848726  | Variant not found | T           | ○      |
| ALDH2    | rs671      | GG+               | A           | ●      |
| AOC1     | rs10156191 | Variant not found | T           | ○      |
| APOB     | rs1367117  | GG+               | A           | ●      |
| APOB     | rs676210   | AG+               | A,T         | ●      |
| ATM      | rs664143   | CC-               | G,T         | ●      |
| AURKA    | rs2273535  | Variant not found | T           | ○      |
| B3GALT1  | rs13020412 | AA+               | G           | ●      |
| BCO1     | rs12934922 | AA+               | G,T         | ●      |
| CCHCR1   | rs130067   | Variant not found | G           | ○      |
| CDKN1A   | rs1801270  | CC+               | A,T         | ●      |
| CDKN2A   | rs3731249  | GG-               | A,G,T       | ●      |
| CETP     | rs5882     | AG+               | A           | ●      |
| CFH      | rs1061147  | CC+               | C           | ●      |
| CFH      | rs1061170  | TT+               | T           | ●      |
| CLPTM1L  | rs401681   | CT+               | T           | ●      |
| CYP1A1   | rs1048943  | AA-               | A,C,G       | ●      |
| CYP1A1   | rs1800031  | TT-               | G           | ●      |
| CYP1A1   | rs41279188 | CC-               | A,T         | ●      |
| CYP1A1   | rs56313657 | GG-               | A,T         | ●      |
| CYP1A1   | rs72547509 | TT-               | G,T         | ●      |
| CYP1B1   | rs1056836  | CC-               | C           | ●      |
| CYP2E1   | rs2070673  | TT+               | T           | ●      |
| CYP3A4   | rs2740574  | AA-               | T           | ●      |
| CYP3A5   | rs776746   | AG-               | C           | ●      |
| DEF8     | rs4268748  | CT+               | C           | ●      |
| DHFR     | rs1643649  | Variant not found | C           | ○      |
| DIRC3    | rs966423   | CT+               | G,T         | ●      |
| DPYD     | rs1801266  | CC-               | A           | ●      |
| DPYD     | rs1801267  | GG-               | T           | ●      |
| DPYD     | rs1801268  | GG-               | A           | ●      |
| E2F3     | rs1570155  | AG+               | A,T         | ●      |
| EPHX1    | rs1051740  | TT+               | C           | ●      |
| EPHX1    | rs2234922  | AG+               | G,T         | ●      |
| ERI1     | rs96621    | CT+               | C           | ●      |
| FASLG    | rs763110   | TT+               | T           | ●      |
| FOXE1    | rs10984009 | Variant not found | A           | ○      |
| G6PD     | rs1050828  | CC+               | T           | ●      |
| GPX1     | rs1050450  | CC-               | A           | ●      |
| GSTP1    | rs1695     | GG+               | G           | ●      |
| HDAC4    | rs3791406  | CT+               | C           | ●      |
| HLA-DRA  | rs3135391  | CC-               | A           | ●      |
| HLA-DRB1 | rs660895   | GG+               | G           | ●      |
| HNF1A    | rs1169300  | Variant not found | A           | ○      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| HNF1A      | rs2464196    | Variant not found | A           | ○      |
| HTRA1      | rs11200638   | AG+               | A           | ●      |
| IGF1R      | rs3743262    | Variant not found | T           | ○      |
| IL4R       | rs1801275    | Variant not found | G           | ○      |
| INTERGENIC | rs10445747   | Variant not found | G           | ○      |
| INTERGENIC | rs12661968   | TT+               | C           | ●      |
| INTERGENIC | rs428668     | Variant not found | C           | ○      |
| INTERGENIC | rs4698048    | Variant not found | G           | ○      |
| INTERGENIC | rs9287638    | CC+               | A           | ●      |
| IRF4       | rs12203592   | CC+               | T           | ●      |
| KL         | rs9536314    | TT+               | A,G         | ●      |
| LMNA       | rs553016     | GG-               | G,T         | ●      |
| MC1R       | rs1805005    | GG+               | T           | ●      |
| MC1R       | rs1805007    | CC+               | T           | ●      |
| MC1R       | rs1805008    | CC+               | T           | ●      |
| MC1R       | rs1805009    | GG+               | A,C         | ●      |
| MDM2       | rs2279744    | Variant not found | G           | ○      |
| MTHFR      | rs1476413    | AG-               | G,T         | ●      |
| MTHFR      | rs17037390   | Variant not found | A           | ○      |
| MTHFR      | rs1801131    | AC-               | G           | ●      |
| MTHFR      | rs1801133    | CC-               | A           | ●      |
| MTHFR      | rs4846049    | Variant not found | A,G         | ○      |
| MTRR       | rs1801394    | AA+               | G           | ●      |
| PIK3CA     | rs104886003  | GG+               | A,C         | ●      |
| PIK3CA     | rs1057518041 | Variant not found |             | ○      |
| PIK3CA     | rs1057519699 | Variant not found | A           | ○      |
| PIK3CA     | rs1057519925 | Variant not found | A,C         | ○      |
| PIK3CA     | rs1057519926 | Variant not found | T           | ○      |
| PIK3CA     | rs1057519927 | Variant not found | C,G,T       | ○      |
| PIK3CA     | rs1057519928 | Variant not found | C           | ○      |
| PIK3CA     | rs1057519929 | Variant not found | A           | ○      |
| PIK3CA     | rs1057519930 | Variant not found | T           | ○      |
| PIK3CA     | rs1057519931 | Variant not found | C           | ○      |
| PIK3CA     | rs1057519932 | Variant not found | G           | ○      |
| PIK3CA     | rs1057519933 | Variant not found | G           | ○      |
| PIK3CA     | rs1057519934 | Variant not found | C           | ○      |
| PIK3CA     | rs1057519935 | Variant not found | G           | ○      |
| PIK3CA     | rs1057519936 | Variant not found | G,T         | ○      |
| PIK3CA     | rs1057519937 | Variant not found | C           | ○      |
| PIK3CA     | rs1057519938 | Variant not found | C,T         | ○      |
| PIK3CA     | rs1057519939 | Variant not found | C           | ○      |
| PIK3CA     | rs1057519940 | Variant not found | T           | ○      |
| PIK3CA     | rs1057519941 | Variant not found | C,G         | ○      |
| PIK3CA     | rs1057519942 | GG+               | A           | ●      |
| PIK3CA     | rs1064793349 | Variant not found | A           | ○      |
| PIK3CA     | rs1064793663 | Variant not found | A           | ○      |
| PIK3CA     | rs1064793732 | Variant not found | A           | ○      |
| PIK3CA     | rs1064793838 | Variant not found | G           | ○      |
| PIK3CA     | rs1064795304 | Variant not found | G           | ○      |
| PIK3CA     | rs121913272  | Variant not found | C,G         | ○      |
| PIK3CA     | rs121913273  | Variant not found | A,C         | ○      |
| PIK3CA     | rs121913274  | Variant not found | C,G,T       | ○      |
| PIK3CA     | rs121913275  | Variant not found | A,C,T       | ○      |
| PIK3CA     | rs121913277  | Variant not found | A,C         | ○      |
| PIK3CA     | rs121913279  | Variant not found | G,T         | ○      |
| PIK3CA     | rs121913281  | Variant not found | T           | ○      |
| PIK3CA     | rs121913282  | Variant not found | C           | ○      |
| PIK3CA     | rs121913283  | Variant not found | A,T         | ○      |
| PIK3CA     | rs121913284  | Variant not found | A,G         | ○      |
| PIK3CA     | rs121913285  | Variant not found | G           | ○      |
| PIK3CA     | rs121913286  | Variant not found | A,G         | ○      |
| PIK3CA     | rs121913287  | Variant not found | A           | ○      |
| PIK3CA     | rs121913288  | Variant not found | G           | ○      |
| PIK3CA     | rs12494623   | Variant not found | G,T         | ○      |
| PIK3CA     | rs141178472  | Variant not found | C           | ○      |
| PIK3CA     | rs17849071   | Variant not found | G           | ○      |
| PIK3CA     | rs17849079   | Variant not found | T           | ○      |
| PIK3CA     | rs2699887    | CT+               | T           | ●      |

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| PIK3CA   | rs3729679   | Variant not found | G           | ○      |
| PIK3CA   | rs3729687   | Variant not found | A           | ○      |
| PIK3CA   | rs397514565 | Variant not found | A           | ○      |
| PIK3CA   | rs397517200 | Variant not found |             | ○      |
| PIK3CA   | rs397517201 | Variant not found | C,G,T       | ○      |
| PPARG    | rs17036170  | GG+               | A           | ●      |
| PPARGC1A | rs3774923   | Variant not found | T           | ○      |
| PTEN     | rs121909229 | GG+               | A,C,T       | ●      |
| PTEN     | rs121909232 | CC+               | G           | ●      |
| PTEN     | rs371387815 | Variant not found | G,T         | ○      |
| RNASEL   | rs3738579   | CT-               | G           | ●      |
| SIRT1    | rs3758391   | Variant not found | C           | ○      |
| SIRT1    | rs4746720   | Variant not found | C           | ○      |
| SLC23A1  | rs1279683   | Variant not found | A,C         | ○      |
| SLC23A1  | rs33972313  | GG-               | A,G,T       | ●      |
| SLC2A14  | rs10846086  | Variant not found | G           | ○      |
| SLC2A14  | rs2889504   | Variant not found | A           | ○      |
| SLC39A6  | rs1050631   | CT-               | A           | ●      |
| SLC45A2  | rs185146    | CT+               | T           | ●      |
| SOD2     | rs1799725   | Variant not found |             | ○      |
| SOD2     | rs4880      | CT-               | G           | ●      |
| SOD3     | rs1799895   | CC+               | G           | ●      |
| SPIRE2   | rs35096708  | Variant not found | A           | ○      |
| STAT4    | rs10181656  | CG+               | C           | ●      |
| TERT     | rs2736098   | AG-               | T           | ●      |
| TERT     | rs2736100   | TT-               | A           | ●      |
| TYR      | rs28940879  | Variant not found | A,C         | ○      |
| XPC      | rs2228000   | CC-               | A           | ●      |
| XPC      | rs2228001   | AA-               | T           | ●      |
| XRCC1    | rs1799782   | CT-               | A           | ●      |

Vitamin D

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| ABCA1  | rs1883025   | AG-               | T           | ●      |
| ABCB1  | rs1128503   | CT-               | G           | ●      |
| ABCB1  | rs3213619   | TT-               | G           | ●      |
| ABI3BP | rs9848726   | Variant not found | T           | ○      |
| ACE    | rs1799752   | Variant not found |             | ○      |
| ACE    | rs4343      | AG+               | A           | ●      |
| ACHE   | rs1799805   | Variant not found | T           | ○      |
| ACHE   | rs2571598   | Variant not found | G,T         | ○      |
| ACP7   | rs472265    | AA+               | G           | ●      |
| ADCY5  | rs11708067  | AA+               | G           | ●      |
| ADD1   | rs4961      | GT+               | A,T         | ●      |
| ADD1   | rs4963      | CG+               | G,T         | ●      |
| ADD2   | rs3755351   | CC-               | T           | ●      |
| ADIPOQ | rs17366743  | TT+               | C           | ●      |
| ADRA2A | rs553668    | Variant not found | G,T         | ○      |
| ADRB2  | rs1800888   | CC+               | T           | ●      |
| AGAP2  | rs12368653  | GG+               | A,T         | ●      |
| AGT    | rs11568020  | Variant not found | A,T         | ○      |
| AGT    | rs121912702 | Variant not found | A           | ○      |
| AGT    | rs699       | CT-               | G           | ●      |
| AGTR1  | rs104893677 | Variant not found | T           | ○      |
| AGTR1  | rs1492099   | Variant not found | A,C         | ○      |
| AGTR1  | rs5186      | AA+               | C           | ●      |
| AHI1   | rs117447608 | Variant not found | A           | ○      |
| AHI1   | rs121434349 | Variant not found | A,T         | ○      |
| AHI1   | rs121434350 | Variant not found | T           | ○      |
| ALDH2  | rs671       | GG+               | A           | ●      |
| ALK    | rs7577363   | Variant not found | A           | ○      |
| ANKRD1 | rs10975200  | Variant not found | C,G         | ○      |
| AOC1   | rs10156191  | Variant not found | T           | ○      |
| APOB   | rs1367117   | GG+               | A           | ●      |
| APOB   | rs676210    | AG+               | A,T         | ●      |
| APOE   | rs7412      | TT+               | T           | ●      |
| APOE4  | rs429358    | TT+               | C           | ●      |
| ARL15  | rs1694089   | Variant not found | C           | ○      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| ARL15      | rs788517     | Variant not found | T           | ○      |
| ASIC2      | rs9901756    | Variant not found | C           | ○      |
| ATM        | rs664143     | CC-               | G,T         | ●      |
| ATP2B1     | rs2681472    | CT-               | G           | ●      |
| ATP2B1     | rs7965584    | AG+               | G           | ●      |
| ATP6V1B1   | rs2266917    | Variant not found | T           | ○      |
| AURKA      | rs2273535    | Variant not found | T           | ○      |
| B3GALT1    | rs13020412   | AA+               | G           | ●      |
| BAG3       | rs2234962    | CT+               | C           | ●      |
| BAG6       | rs3117583    | TT-               | G           | ●      |
| BATF       | rs2300603    | TT+               | C           | ●      |
| BCAT1      | rs7961152    | Variant not found | C           | ○      |
| BCO1       | rs12934922   | AA+               | G,T         | ●      |
| BDNF       | rs13306221   | Variant not found | T           | ○      |
| BMPR1B     | rs11097457   | Variant not found | G           | ○      |
| BMPR1B     | rs121434417  | Variant not found | A           | ○      |
| BMPR1B     | rs1434536    | Variant not found | T           | ○      |
| BMPR2      | rs1006246556 | Variant not found | A,T         | ○      |
| BRAP       | rs3782886    | AA-               | C           | ●      |
| BRCA2      | rs1801406    | Variant not found | C,G         | ○      |
| BTD        | rs104893686  | TT+               | G           | ●      |
| BTD        | rs104893687  | CC+               | T           | ●      |
| C1ORF106   | rs7522462    | AG+               | A           | ●      |
| CACNB2     | rs2228645    | Variant not found | A,T         | ○      |
| CALCA      | rs3781719    | Variant not found | G           | ○      |
| CAPN10     | rs3792267    | GG+               | A           | ●      |
| CASZ1      | rs880315     | AA-               | C           | ●      |
| CAV3       | rs1008642    | Variant not found | A,G,T       | ○      |
| CBLB       | rs12487066   | Variant not found | C           | ○      |
| CBS        | rs1801181    | Variant not found | A           | ○      |
| CBS        | rs2851391    | CT+               | C           | ●      |
| CBS        | rs28934891   | GG-               | T           | ●      |
| CBS        | rs5742905    | TT-               | G           | ●      |
| CCHCR1     | rs130067     | Variant not found | G           | ○      |
| CCL2       | rs1024611    | CT-               | G           | ●      |
| CD58       | rs12044852   | CC+               | A           | ●      |
| CD86       | rs1129055    | GG+               | A           | ●      |
| CD86       | rs9282641    | GG+               | A           | ●      |
| CDH13      | rs8055236    | GG+               | A,C,T       | ●      |
| CDKAL1     | rs4712523    | AG+               | G           | ●      |
| CDKAL1     | rs7756992    | AG+               | G,T         | ●      |
| CDKN1A     | rs1801270    | CC+               | A,T         | ●      |
| CDKN2A     | rs10811661   | TT+               | T           | ●      |
| CDKN2A     | rs3731249    | GG-               | A,G,T       | ●      |
| CDKN2A/B   | rs2383208    | AA+               | G,T         | ●      |
| CDKN2B-AS1 | rs10116277   | TT+               | T           | ●      |
| CDKN2B-AS1 | rs1011970    | GT+               | T           | ●      |
| CDKN2B-AS1 | rs1063192    | TT-               | A,T         | ●      |
| CDKN2B-AS1 | rs10757272   | TT+               | T           | ●      |
| CDKN2B-AS1 | rs10757274   | GG+               | G           | ●      |
| CDKN2B-AS1 | rs1537375    | Variant not found | C,G         | ○      |
| CDKN2B-AS1 | rs2383206    | Variant not found | G           | ○      |
| CETP       | rs2303790    | AA+               | G           | ●      |
| CETP       | rs5882       | AG+               | A           | ●      |
| CFH        | rs1061147    | CC+               | C           | ●      |
| CHRD1      | rs387906713  | Variant not found | A           | ○      |
| CHRD1      | rs387906714  | Variant not found | A           | ○      |
| CHST12     | rs6952809    | CC+               | C           | ●      |
| CLCN6      | rs13306560   | Variant not found | T           | ○      |
| CLCN6      | rs17376328   | Variant not found | A           | ○      |
| CLCN6      | rs3737964    | Variant not found | A,C,G       | ○      |
| CLEC16A    | rs6498169    | Variant not found | A           | ○      |
| CLEC16A    | rs725613     | Variant not found | G           | ○      |
| CLPTM1L    | rs401681     | CT+               | T           | ●      |
| CLSTN2     | rs17411949   | CC+               | T           | ●      |
| CRP        | rs3091244    | Variant not found | A,T         | ○      |
| CYP1A1     | rs1048943    | AA-               | A,C,G       | ●      |
| CYP1A1     | rs1800031    | TT-               | G           | ●      |

| Gene     | SNP          | Genotype          | Rare Allele | Result |
|----------|--------------|-------------------|-------------|--------|
| CYP1A1   | rs41279188   | CC-               | A,T         | ●      |
| CYP1A1   | rs56313657   | GG-               | A,T         | ●      |
| CYP1A1   | rs72547509   | TT-               | G,T         | ●      |
| CYP1B1   | rs1056836    | CC-               | C           | ●      |
| CYP24A1  | rs2248359    | CC+               | T           | ●      |
| CYP24A1  | rs2296241    | GG+               | A           | ●      |
| CYP24A1  | rs2762932    | Variant not found | C           | ○      |
| CYP24A1  | rs4809957    | AG+               | G           | ●      |
| CYP24A1  | rs6068812    | AA+               | G           | ●      |
| CYP24A1  | rs6068816    | CT+               | T           | ●      |
| CYP27B1  | rs1057520815 | Variant not found | T           | ○      |
| CYP27B1  | rs10877012   | TT+               | C,T         | ●      |
| CYP27B1  | rs118204007  | Variant not found | C           | ○      |
| CYP27B1  | rs118204010  | CC-               | G           | ●      |
| CYP27B1  | rs118204008  | CC-               | T           | ●      |
| CYP27B1  | rs118204012  | AA-               | G           | ●      |
| CYP2E1   | rs2070673    | TT+               | T           | ●      |
| CYP2R1   | rs10741657   | GG+               | G           | ●      |
| CYP2R1   | rs117913124  | Variant not found | A           | ○      |
| CYP2R1   | rs12794714   | Variant not found | A           | ○      |
| CYP2R1   | rs2060793    | GG+               | G           | ●      |
| CYP2R1   | rs6013897    | Variant not found | A           | ○      |
| CYP2R1   | rs61495246   | TT-               | G           | ●      |
| CYP3A4   | rs2740574    | AA-               | T           | ●      |
| CYP3A5   | rs776746     | AG-               | C           | ●      |
| CYP4A11  | rs1126742    | Variant not found | G           | ○      |
| DAPK1    | rs11141915   | AC+               | C           | ●      |
| DBC1     | rs10984447   | AA+               | G           | ●      |
| DEF8     | rs4268748    | CT+               | C           | ●      |
| DHFR     | rs1643649    | Variant not found | C           | ○      |
| DIRC3    | rs966423     | CT+               | G,T         | ●      |
| DKKL1    | rs2303759    | TT+               | G           | ●      |
| DLEU1    | rs2762051    | CC+               | T           | ●      |
| DMD      | rs104894788  | GG-               | T           | ●      |
| DMD      | rs1800278    | AA-               | C           | ●      |
| DMD      | rs1801187    | GG-               | T           | ●      |
| DNAJC5B  | rs13279522   | TT+               | C           | ●      |
| DNER     | rs1861612    | AG+               | A,C         | ●      |
| DPYD     | rs1801266    | CC-               | A           | ●      |
| DPYD     | rs1801267    | GG-               | T           | ●      |
| DPYD     | rs1801268    | GG-               | A           | ●      |
| DSG2     | rs2230234    | AA+               | G,T         | ●      |
| E2F3     | rs1570155    | AG+               | A,T         | ●      |
| ENPP1    | rs997509     | Variant not found | T           | ○      |
| EPHX1    | rs1051740    | TT+               | C           | ●      |
| EPHX1    | rs2234922    | AG+               | G,T         | ●      |
| ERG      | rs989554     | Variant not found | A           | ○      |
| ERI1     | rs96621      | CT+               | C           | ●      |
| ESR1     | rs11964281   | Variant not found | T           | ○      |
| EVI5     | rs10735781   | Variant not found | C           | ○      |
| EVI5     | rs6680578    | Variant not found | A           | ○      |
| F12      | rs1801020    | CT-               | G           | ●      |
| F7       | rs6046       | CT-               | A           | ●      |
| FAM58A   | rs1057521251 | Variant not found | A           | ○      |
| FAM69A   | rs11164838   | Variant not found | T           | ○      |
| FAM69A   | rs7536563    | Variant not found | G           | ○      |
| FASLG    | rs763110     | TT+               | T           | ●      |
| FGF20    | rs1721100    | Variant not found | G,T         | ○      |
| FLJ25967 | rs2331291    | Variant not found | T           | ○      |
| FMN2     | rs17672135   | TT+               | C           | ●      |
| FOXE1    | rs10984009   | Variant not found | A           | ○      |
| FTO      | rs10163409   | Variant not found | T           | ○      |
| FTO      | rs1121980    | CC-               | A           | ●      |
| G6PD     | rs1050828    | CC+               | T           | ●      |
| GAD1     | rs10432420   | Variant not found | A           | ○      |
| GAD1     | rs12185692   | Variant not found | A           | ○      |
| GAD1     | rs2058725    | Variant not found | C           | ○      |
| GAD1     | rs2241165    | AA-               | T           | ●      |

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| GAD1       | rs3762555   | Variant not found | A,G         | ○      |
| GAD1       | rs3791850   | Variant not found | A,C         | ○      |
| GAD1       | rs3791851   | Variant not found | C           | ○      |
| GAD1       | rs3791878   | Variant not found | T           | ○      |
| GAD1       | rs3828275   | Variant not found | T           | ○      |
| GAD1       | rs701492    | TT+               | T           | ●      |
| GAD1       | rs769407    | Variant not found | C           | ○      |
| GATA2      | rs3803      | Variant not found | A           | ○      |
| GATA4      | rs104894073 | Variant not found | A,G,T       | ○      |
| GATA4      | rs104894074 | Variant not found | A           | ○      |
| GC         | rs2282679   | AA-               | G           | ●      |
| GC         | rs4588      | CC-               | A,T         | ●      |
| GC         | rs7041      | GT-               | G           | ●      |
| GC         | rs1155563   | TT+               | C           | ●      |
| GCK        | rs4607517   | GG+               | A,C         | ●      |
| GCKR       | rs780094    | AG-               | C           | ●      |
| GPX1       | rs1050450   | CC-               | A           | ●      |
| GPX4       | rs713041    | Variant not found | A,C         | ○      |
| GRK5       | rs17098707  | Variant not found | T           | ○      |
| GSTP1      | rs1695      | GG+               | G           | ●      |
| GUCY1A3    | rs587777320 | Variant not found | A,T         | ○      |
| GUCY1A3    | rs587777321 | Variant not found | T           | ○      |
| GUCY1A3    | rs587777322 | Variant not found |             | ○      |
| HDAC4      | rs3791406   | CT+               | C           | ●      |
| HHEX       | rs1111875   | Variant not found | T           | ○      |
| HHEX       | rs5015480   | TT+               | T           | ●      |
| HIVEP2     | rs761993070 | CC+               | A,G,T       | ●      |
| HIVEP2     | rs878853251 | Variant not found |             | ○      |
| HLA-DRA    | rs3135391   | CC-               | A           | ●      |
| HLA-DRA    | rs61731956  | GG+               | A           | ●      |
| HLA-DRB1   | rs3135388   | CC-               | A           | ●      |
| HLA-DRB1   | rs660895    | GG+               | G           | ●      |
| HNF1A      | rs1169300   | Variant not found | A           | ○      |
| HNF1A      | rs2464196   | Variant not found | A           | ○      |
| HSPD1      | rs2340690   | Variant not found | G           | ○      |
| HSPD1      | rs2565163   | Variant not found | A,C         | ○      |
| HSPD1      | rs788016    | Variant not found | A           | ○      |
| HSPE1      | rs2305560   | Variant not found | T           | ○      |
| IFNL4      | rs12979860  | CC+               | C           | ●      |
| IGF1R      | rs3743262   | Variant not found | T           | ○      |
| IGF2BP2    | rs4402960   | GG+               | T           | ●      |
| IL-2RA     | rs12722489  | AG-               | T           | ●      |
| IL-2RA     | rs12722561  | Variant not found | A,T         | ○      |
| IL-2RA     | rs2104286   | AG-               | C           | ●      |
| IL-4       | rs2243250   | CC+               | T           | ●      |
| IL-6       | rs1800795   | CG+               | G           | ●      |
| IL-7R      | rs6897932   | CC+               | T           | ●      |
| IL4R       | rs1801275   | Variant not found | G           | ○      |
| INSIG2     | rs7566605   | GG+               | C           | ●      |
| INTERGENIC | rs10445747  | Variant not found | G           | ○      |
| INTERGENIC | rs10757278  | GG+               | G           | ●      |
| INTERGENIC | rs12661968  | TT+               | C           | ●      |
| INTERGENIC | rs13192841  | GG+               | A           | ●      |
| INTERGENIC | rs1333049   | CC+               | C           | ●      |
| INTERGENIC | rs1937506   | Variant not found | A           | ○      |
| INTERGENIC | rs198358    | Variant not found | C           | ○      |
| INTERGENIC | rs2119704   | CC+               | A           | ●      |
| INTERGENIC | rs2383207   | GG+               | G           | ●      |
| INTERGENIC | rs2820037   | AA+               | T           | ●      |
| INTERGENIC | rs3129934   | Variant not found | C           | ○      |
| INTERGENIC | rs383830    | Variant not found | T           | ○      |
| INTERGENIC | rs428668    | Variant not found | C           | ○      |
| INTERGENIC | rs4698048   | Variant not found | G           | ○      |
| INTERGENIC | rs4728142   | AG+               | A           | ●      |
| INTERGENIC | rs501120    | AG-               | C           | ●      |
| INTERGENIC | rs632793    | Variant not found | G           | ○      |
| INTERGENIC | rs6997709   | Variant not found | A,T         | ○      |
| INTERGENIC | rs7250581   | Variant not found | G           | ○      |

| Gene       | SNP         | Genotype          | Rare Allele | Result |
|------------|-------------|-------------------|-------------|--------|
| INTERGENIC | rs751891    | CC-               | T           | ●      |
| INTERGENIC | rs791595    | AG+               | G           | ●      |
| INTERGENIC | rs7923837   | AA+               | A,T         | ●      |
| INTERGENIC | rs9287638   | CC+               | A           | ●      |
| IRF4       | rs12203592  | CC+               | T           | ●      |
| IRF5       | rs3807306   | Variant not found | A,T         | ○      |
| IRS1       | rs2943641   | CT+               | C           | ●      |
| ITGA11     | rs7174755   | TT+               | C,G         | ●      |
| ITGB3      | rs5918      | TT+               | C           | ●      |
| JAG1       | rs28939668  | Variant not found | T           | ○      |
| JAZF1      | rs1635852   | CT+               | C           | ●      |
| KCNE1      | rs1805127   | AG-               | A,C,G       | ●      |
| KCNE2      | rs2234916   | AA+               | G           | ●      |
| KCNE3      | rs2270676   | CT-               | G           | ●      |
| KCNJ11     | rs5215      | TT+               | T           | ●      |
| KCNJ11     | rs5219      | CC+               | T           | ●      |
| KCNQ1      | rs104894252 | GG+               | A,C         | ●      |
| KCNQ1      | rs1057128   | Variant not found | A           | ○      |
| KCNQ1      | rs2283228   | AA+               | C           | ●      |
| KL         | rs9527025   | Variant not found | C,T         | ○      |
| KL         | rs9536314   | TT+               | A,G         | ●      |
| KLC1       | rs8702      | Variant not found | G           | ○      |
| KLRB1      | rs4763655   | Variant not found | A           | ○      |
| LAG3       | rs870849    | CT+               | C           | ●      |
| LEPR       | rs1137101   | AA+               | G           | ●      |
| LIPA       | rs1051338   | Variant not found | G           | ○      |
| LIPA       | rs1131706   | Variant not found | T           | ○      |
| LIPA       | rs3802656   | Variant not found | A           | ○      |
| LMNA       | rs553016    | GG-               | G,T         | ●      |
| LRP8       | rs5174      | GG-               | T           | ●      |
| M6PR       | rs1805762   | Variant not found | G,T         | ○      |
| MACROD2    | rs398124654 | Variant not found | C           | ○      |
| MALT1      | rs587777337 | Variant not found | C           | ○      |
| MAOA       | rs1137070   | TT+               | C           | ●      |
| MAOA       | rs3027399   | GG+               | C           | ●      |
| MAOA       | rs909525    | GG-               | T           | ●      |
| MC1R       | rs1805005   | GG+               | T           | ●      |
| MC1R       | rs1805007   | CC+               | T           | ●      |
| MC1R       | rs1805008   | CC+               | T           | ●      |
| MC1R       | rs1805009   | GG+               | A,C         | ●      |
| MDM2       | rs2279744   | Variant not found | G           | ○      |
| MERTK      | rs119489105 | Variant not found | T           | ○      |
| MERTK      | rs527236083 | Variant not found |             | ○      |
| MMP3       | rs3025058   | DI+               | G           | ●      |
| MMP9       | rs17576     | Variant not found | G           | ○      |
| MMP9       | rs3918242   | Variant not found | T           | ○      |
| MOV10      | rs2932538   | CC-               | C,G         | ●      |
| MPV17L2    | rs874628    | TT-               | G,T         | ●      |
| MRAS       | rs2306374   | TT+               | C           | ●      |
| MTHFD1     | rs1076991   | AG-               | C,G         | ●      |
| MTHFD1L    | rs11754661  | GG+               | A,T         | ●      |
| MTHFD1L    | rs17349743  | TT+               | C           | ●      |
| MTHFD1L    | rs6922269   | AG+               | A           | ●      |
| MTHFD1L    | rs803422    | Variant not found | C,G         | ○      |
| MTHFR      | rs1476413   | AG-               | G,T         | ●      |
| MTHFR      | rs17037390  | Variant not found | A           | ○      |
| MTHFR      | rs1801131   | AC-               | G           | ●      |
| MTHFR      | rs1801133   | CC-               | A           | ●      |
| MTHFR      | rs2066470   | Variant not found | A,C         | ○      |
| MTHFR      | rs4846049   | Variant not found | A,G         | ○      |
| MTNR1B     | rs10830963  | CC+               | G           | ●      |
| MTRR       | rs1801394   | AA+               | G           | ●      |
| MTTP       | rs3816873   | Variant not found | C           | ○      |
| MYBPC1     | rs11110912  | Variant not found | G           | ○      |
| MYBPC3     | rs11570112  | CC-               | A,C         | ●      |
| MYO16      | rs17485138  | Variant not found | T           | ○      |
| NADSYN1    | rs12785878  | GG+               | G           | ●      |
| NAF1       | rs7675998   | GG+               | G,T         | ●      |

| Gene      | SNP          | Genotype          | Rare Allele | Result |
|-----------|--------------|-------------------|-------------|--------|
| NCKAP5    | rs10193871   | Variant not found | C           | ○      |
| NEDD4L    | rs2288774    | CT+               | A,C         | ●      |
| NEDD4L    | rs3865418    | CC+               | C           | ●      |
| NEDD4L    | rs4149601    | AA+               | A           | ●      |
| NFE2L2    | rs35652124   | CT+               | C           | ●      |
| NFE2L2    | rs6721961    | GG+               | C,G         | ●      |
| NGF       | rs11466112   | CC-               | A           | ●      |
| NGF       | rs6330       | CC-               | A           | ●      |
| NLRP1     | rs115799546  | Variant not found | G,T         | ○      |
| NOS3      | rs1799983    | GG+               | T           | ●      |
| NOS3      | rs1800779    | AA+               | G           | ●      |
| NOS3      | rs1800783    | Variant not found | C,G,T       | ○      |
| NOS3      | rs207044     | Variant not found | T           | ○      |
| NOS3      | rs3918188    | Variant not found | A,T         | ○      |
| NOTCH2    | rs10923931   | Variant not found | T           | ○      |
| NOTCH2    | rs2793831    | Variant not found | C           | ○      |
| NOV       | rs2071518    | CC+               | T           | ●      |
| NPPA      | rs5065       | AA+               | G           | ●      |
| NPPA      | rs5068       | Variant not found | G,T         | ○      |
| NR2F2-AS1 | rs2398162    | Variant not found | G           | ○      |
| NR3C1     | rs6198       | Variant not found | C           | ○      |
| OLR1      | rs11053646   | Variant not found | G           | ○      |
| OPRM1     | rs10485057   | Variant not found | G           | ○      |
| OPRM1     | rs17174794   | Variant not found | G,T         | ○      |
| OPRM1     | rs1799971    | GG+               | G           | ●      |
| PAX4      | rs2233578    | Variant not found | A,T         | ○      |
| PAX4      | rs2233580    | GG-               | T           | ●      |
| PCK1      | rs8192708    | AG+               | G           | ●      |
| PDE4B     | rs1321172    | Variant not found | G           | ○      |
| PECAM1    | rs281865545  | Variant not found | G,T         | ○      |
| PEX5L     | rs7630877    | GG+               | A,C         | ●      |
| PHACTR1   | rs9349379    | AA+               | A           | ●      |
| PIK3CA    | rs104886003  | GG+               | A,C         | ●      |
| PIK3CA    | rs1057518041 | Variant not found |             | ○      |
| PIK3CA    | rs1057519699 | Variant not found | A           | ○      |
| PIK3CA    | rs1057519925 | Variant not found | A,C         | ○      |
| PIK3CA    | rs1057519926 | Variant not found | T           | ○      |
| PIK3CA    | rs1057519927 | Variant not found | C,G,T       | ○      |
| PIK3CA    | rs1057519928 | Variant not found | C           | ○      |
| PIK3CA    | rs1057519929 | Variant not found | A           | ○      |
| PIK3CA    | rs1057519930 | Variant not found | T           | ○      |
| PIK3CA    | rs1057519931 | Variant not found | C           | ○      |
| PIK3CA    | rs1057519932 | Variant not found | G           | ○      |
| PIK3CA    | rs1057519933 | Variant not found | G           | ○      |
| PIK3CA    | rs1057519934 | Variant not found | C           | ○      |
| PIK3CA    | rs1057519935 | Variant not found | G           | ○      |
| PIK3CA    | rs1057519936 | Variant not found | G,T         | ○      |
| PIK3CA    | rs1057519937 | Variant not found | C           | ○      |
| PIK3CA    | rs1057519938 | Variant not found | C,T         | ○      |
| PIK3CA    | rs1057519939 | Variant not found | C           | ○      |
| PIK3CA    | rs1057519940 | Variant not found | T           | ○      |
| PIK3CA    | rs1057519941 | Variant not found | C,G         | ○      |
| PIK3CA    | rs1057519942 | GG+               | A           | ●      |
| PIK3CA    | rs1064793349 | Variant not found | A           | ○      |
| PIK3CA    | rs1064793663 | Variant not found | A           | ○      |
| PIK3CA    | rs1064793732 | Variant not found | A           | ○      |
| PIK3CA    | rs1064793838 | Variant not found | G           | ○      |
| PIK3CA    | rs1064795304 | Variant not found | G           | ○      |
| PIK3CA    | rs121913272  | Variant not found | C,G         | ○      |
| PIK3CA    | rs121913273  | Variant not found | A,C         | ○      |
| PIK3CA    | rs121913274  | Variant not found | C,G,T       | ○      |
| PIK3CA    | rs121913275  | Variant not found | A,C,T       | ○      |
| PIK3CA    | rs121913277  | Variant not found | A,C         | ○      |
| PIK3CA    | rs121913279  | Variant not found | G,T         | ○      |
| PIK3CA    | rs121913281  | Variant not found | T           | ○      |
| PIK3CA    | rs121913282  | Variant not found | C           | ○      |
| PIK3CA    | rs121913283  | Variant not found | A,T         | ○      |
| PIK3CA    | rs121913284  | Variant not found | A,G         | ○      |

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| PIK3CA   | rs121913285 | Variant not found | G           | ○      |
| PIK3CA   | rs121913286 | Variant not found | A,G         | ○      |
| PIK3CA   | rs121913287 | Variant not found | A           | ○      |
| PIK3CA   | rs121913288 | Variant not found | G           | ○      |
| PIK3CA   | rs12494623  | Variant not found | G,T         | ○      |
| PIK3CA   | rs141178472 | Variant not found | C           | ○      |
| PIK3CA   | rs17849071  | Variant not found | G           | ○      |
| PIK3CA   | rs17849079  | Variant not found | T           | ○      |
| PIK3CA   | rs2699887   | CT+               | T           | ●      |
| PIK3CA   | rs3729679   | Variant not found | G           | ○      |
| PIK3CA   | rs3729687   | Variant not found | A           | ○      |
| PIK3CA   | rs397514565 | Variant not found | A           | ○      |
| PIK3CA   | rs397517200 | Variant not found |             | ○      |
| PIK3CA   | rs397517201 | Variant not found | C,G,T       | ○      |
| PLCL2    | rs10510468  | Variant not found | A,T         | ○      |
| PLPP3    | rs17114036  | AA+               | G           | ●      |
| PPARG    | rs13306747  | Variant not found | A,G,T       | ○      |
| PPARG    | rs17036170  | GG+               | A           | ●      |
| PPARG    | rs1801282   | CG+               | C           | ●      |
| PPARG    | rs2197423   | Variant not found | A           | ○      |
| PPARG    | rs4684847   | Variant not found | T           | ○      |
| PPARG    | rs6802898   | Variant not found | T           | ○      |
| PPARGC1A | rs3774923   | Variant not found | T           | ○      |
| PPARGC1A | rs8192678   | GG-               | T           | ●      |
| PSMA6    | rs1048990   | CG+               | G,T         | ●      |
| PSRC1    | rs599839    | AA+               | A,C         | ●      |
| PTEN     | rs121909229 | GG+               | A,C,T       | ●      |
| PTEN     | rs121909232 | CC+               | G           | ●      |
| PTEN     | rs371387815 | Variant not found | G,T         | ○      |
| PTH      | rs6256      | AC-               | A,T         | ●      |
| PTPRD    | rs10116682  | Variant not found | A           | ○      |
| PTPRD    | rs10481625  | Variant not found | A,C,G       | ○      |
| PTPRS    | rs1143699   | Variant not found | A           | ○      |
| RASGRP1  | rs7403531   | CC+               | C,G         | ●      |
| RBMS1    | rs6718526   | Variant not found | C           | ○      |
| RHOU     | rs6426514   | GG+               | A           | ●      |
| RNASEL   | rs3738579   | CT-               | G           | ●      |
| RNASEL   | rs486907    | Variant not found | T           | ○      |
| RPL5     | rs6604026   | Variant not found | C,G         | ○      |
| RPS6KB1  | rs630923    | CC+               | A           | ●      |
| RPSAP52  | rs1531343   | CC+               | C,T         | ●      |
| RYR2     | rs34967813  | AA+               | G           | ●      |
| SAMD12   | rs17749211  | Variant not found | T           | ○      |
| SCN5A    | rs1805124   | GG-               | T           | ●      |
| SDHAF4   | rs1048886   | AA+               | G           | ●      |
| SEZ6L    | rs688034    | Variant not found | T           | ○      |
| SH2B3    | rs3184504   | CC+               | A,C,G       | ●      |
| SHMT1    | rs1979277   | AG+               | A           | ●      |
| SIRT1    | rs3758391   | Variant not found | C           | ○      |
| SIRT1    | rs4746720   | Variant not found | C           | ○      |
| SLC2A14  | rs12815313  | Variant not found | G,T         | ○      |
| SLC30A7  | rs11581062  | AA+               | G           | ●      |
| SLC30A8  | rs13266634  | CC+               | A,T         | ●      |
| SLC39A6  | rs1050631   | CT-               | A           | ●      |
| SLC45A2  | rs185146    | CT+               | T           | ●      |
| SMAD3    | rs17228212  | TT+               | C           | ●      |
| SOD2     | rs2758331   | Variant not found | A           | ○      |
| SOD2     | rs4880      | CT-               | G           | ●      |
| SPIRE2   | rs35096708  | Variant not found | A           | ○      |
| STAT4    | rs10181656  | CG+               | C           | ●      |
| STK39    | rs3754777   | Variant not found | T           | ○      |
| STK39    | rs6749447   | GT+               | G           | ●      |
| SYK      | rs10993738  | Variant not found | C           | ○      |
| TAP2     | rs1800454   | GG-               | T           | ●      |
| TAP2     | rs241428    | AA-               | A,C,G       | ●      |
| TAP2     | rs241448    | Variant not found | G           | ○      |
| TCF7L2   | rs12255372  | GG+               | T           | ●      |
| TCF7L2   | rs7901695   | TT+               | C           | ●      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| TCF7L2  | rs7903146    | CC+               | G,T         | ●      |
| TERT    | rs2736098    | AG-               | T           | ●      |
| TERT    | rs2736100    | TT-               | A           | ●      |
| TGFBR3  | rs1805110    | CC-               | A           | ●      |
| THADA   | rs7578597    | TT+               | C           | ●      |
| THBS2   | rs8089       | Variant not found | C           | ○      |
| TLR4    | rs4986790    | AA+               | G,T         | ●      |
| TLR4    | rs4986791    | CC+               | T           | ●      |
| TMPO    | rs17028450   | CC+               | T           | ●      |
| TNF     | rs1800629    | GG+               | A           | ●      |
| TNFSF14 | rs2291667    | CC-               | A           | ●      |
| TNFSF14 | rs344560     | GG-               | C           | ●      |
| TNFSF4  | rs1234313    | AG+               | G           | ●      |
| TNFSF4  | rs1234315    | Variant not found | T           | ○      |
| TNFSF4  | rs3850641    | Variant not found | G           | ○      |
| TNFSF4  | rs3861950    | TT+               | C           | ●      |
| TRIB3   | rs2295490    | AG+               | G,T         | ●      |
| TRPM6   | rs11144134   | CT+               | C           | ●      |
| TTN     | rs16866412   | Variant not found | A           | ○      |
| TTN     | rs2244492    | GG-               | T           | ●      |
| TTR     | rs1800458    | Variant not found | A           | ○      |
| TXNRD2  | rs5748469    | AA+               | A           | ●      |
| TYR     | rs28940879   | Variant not found | A,C         | ○      |
| UBE2E2  | rs7612463    | AC+               | A,G         | ●      |
| VDR     | rs1057521095 | Variant not found | A           | ○      |
| VDR     | rs11574010   | Variant not found | T           | ○      |
| VDR     | rs1544410    | AG-               | C,T         | ●      |
| VDR     | rs2228570    | CC-               | C,T         | ●      |
| VDR     | rs731236     | CT-               | G           | ●      |
| VDR     | rs7975232    | AC+               | A           | ●      |
| VPS26A  | rs4812829    | AG+               | A           | ●      |
| VPS33B  | rs121434383  | Variant not found | A           | ○      |
| WFS1    | rs10010131   | Variant not found | G           | ○      |
| WFS1    | rs10012946   | Variant not found | C           | ○      |
| WSCD2   | rs3794260    | Variant not found | A           | ○      |
| WSCD2   | rs9739493    | CC+               | C,G         | ●      |
| XPC     | rs2228000    | CC-               | A           | ●      |
| XPC     | rs2228001    | AA-               | T           | ●      |
| XRCC1   | rs1799782    | CT-               | A           | ●      |
| ZNF767P | rs354033     | CC-               | A           | ●      |

Vitamin E

| Gene   | SNP         | Genotype          | Rare Allele | Result |
|--------|-------------|-------------------|-------------|--------|
| A2M    | rs669       | AA-               | C           | ●      |
| ABCA2  | rs908832    | Variant not found | C,G         | ○      |
| ABCA7  | rs113809142 | Variant not found | G           | ○      |
| ABCA7  | rs115550680 | AA+               | G           | ●      |
| ABCA7  | rs200538373 | Variant not found | A,C         | ○      |
| ABCA7  | rs3752246   | Variant not found | C,T         | ○      |
| ABCA7  | rs3764650   | TT+               | G           | ●      |
| ABCA7  | rs78117248  | Variant not found | G           | ○      |
| ACE    | rs1799752   | Variant not found |             | ○      |
| ACE    | rs4343      | AG+               | A           | ●      |
| ADD1   | rs4961      | GT+               | A,T         | ●      |
| ADRB2  | rs1800888   | CC+               | T           | ●      |
| AGAP2  | rs12368653  | GG+               | A,T         | ●      |
| AHI1   | rs117447608 | Variant not found | A           | ○      |
| AHI1   | rs121434349 | Variant not found | A,T         | ○      |
| AHI1   | rs121434350 | Variant not found | T           | ○      |
| ALK    | rs7577363   | Variant not found | A           | ○      |
| ANKRD1 | rs10975200  | Variant not found | C,G         | ○      |
| AOC1   | rs10156191  | Variant not found | T           | ○      |
| APH1B  | rs1047552   | Variant not found | A,G         | ○      |
| APOA5  | rs12272004  | CC+               | A           | ●      |
| APOC1  | rs4420638   | AA+               | G           | ●      |
| APOE   | rs7412      | TT+               | T           | ●      |
| APOE4  | rs429358    | TT+               | C           | ●      |
| APP    | rs193922916 | Variant not found | A,C         | ○      |

| Gene       | SNP          | Genotype          | Rare Allele | Result |
|------------|--------------|-------------------|-------------|--------|
| APP        | rs281865161  | Variant not found | A,G         | ○      |
| APP        | rs63749964   | Variant not found | C           | ○      |
| APP        | rs63750064   | Variant not found | G,T         | ○      |
| APP        | rs63750151   | Variant not found | G,T         | ○      |
| APP        | rs63750399   | Variant not found | A,C         | ○      |
| APP        | rs63750643   | Variant not found | C           | ○      |
| APP        | rs63750734   | Variant not found | T           | ○      |
| APP        | rs63750847   | Variant not found | T           | ○      |
| APP        | rs63750868   | Variant not found | C,G         | ○      |
| APP        | rs63751039   | Variant not found | C           | ○      |
| APP        | rs63751122   | Variant not found | G           | ○      |
| ARHGAP20   | rs326946     | TT-               | C           | ●      |
| ARVCF      | rs5993891    | Variant not found | T           | ○      |
| ASIC2      | rs9901756    | Variant not found | C           | ○      |
| ATP2B1     | rs2681472    | CT-               | G           | ●      |
| ATP8B4     | rs10519262   | Variant not found | A           | ○      |
| BACE1      | rs638405     | Variant not found | G           | ○      |
| BAG3       | rs2234962    | CT+               | C           | ●      |
| BATF       | rs2300603    | TT+               | C           | ●      |
| BDNF       | rs2049045    | Variant not found | A,C         | ○      |
| BDNF       | rs6265       | GG-               | T           | ●      |
| BIN1       | rs744373     | CT-               | G           | ●      |
| BRAP       | rs3782886    | AA-               | C           | ●      |
| BRCA2      | rs1801406    | Variant not found | C,G         | ○      |
| BTB        | rs104893686  | TT+               | G           | ●      |
| BTB        | rs104893687  | CC+               | T           | ●      |
| C1ORF106   | rs7522462    | AG+               | A           | ●      |
| CACNB2     | rs2228645    | Variant not found | A,T         | ○      |
| CALHM1     | rs2986017    | Variant not found | G           | ○      |
| CASC17     | rs1859962    | GG+               | T           | ●      |
| CASC21     | rs16902104   | CC+               | G,T         | ●      |
| CASC8      | rs1447295    | CC+               | C,T         | ●      |
| CASC8      | rs6983267    | GG+               | T           | ●      |
| CAV3       | rs1008642    | Variant not found | A,G,T       | ○      |
| CBLB       | rs12487066   | Variant not found | C           | ○      |
| CCL2       | rs1024611    | CT-               | G           | ●      |
| CD2AP      | rs10948363   | AA+               | G           | ●      |
| CD2AP      | rs9349407    | GG+               | C           | ●      |
| CD58       | rs12044852   | CC+               | A           | ●      |
| CD86       | rs1129055    | GG+               | A           | ●      |
| CD86       | rs9282641    | GG+               | A           | ●      |
| CDH1       | rs16260      | AC+               | A           | ●      |
| CDH13      | rs8055236    | GG+               | A,C,T       | ●      |
| CDKN1B     | rs34330      | CT+               | C           | ●      |
| CDKN2B-AS1 | rs10116277   | TT+               | T           | ●      |
| CDKN2B-AS1 | rs1011970    | GT+               | T           | ●      |
| CDKN2B-AS1 | rs1063192    | TT-               | A,T         | ●      |
| CDKN2B-AS1 | rs10757272   | TT+               | T           | ●      |
| CDKN2B-AS1 | rs10757274   | GG+               | G           | ●      |
| CDKN2B-AS1 | rs1537375    | Variant not found | C,G         | ○      |
| CDKN2B-AS1 | rs2383206    | Variant not found | G           | ○      |
| CETP       | rs2303790    | AA+               | G           | ●      |
| CETP       | rs5882       | AG+               | A           | ●      |
| CFH        | rs1061170    | TT+               | T           | ●      |
| CHAT       | rs733722     | CC+               | A,G,T       | ●      |
| CHEK2      | rs17879961   | TT-               | C,G         | ●      |
| CHRDL1     | rs387906713  | Variant not found | A           | ○      |
| CHRDL1     | rs387906714  | Variant not found | A           | ○      |
| CHST12     | rs6952809    | CC+               | C           | ●      |
| CLEC16A    | rs6498169    | Variant not found | A           | ○      |
| CLEC16A    | rs725613     | Variant not found | G           | ○      |
| CLSTN2     | rs17411949   | CC+               | T           | ●      |
| CLU        | rs11136000   | CC+               | C           | ●      |
| CNTNAP2    | rs1057520549 | Variant not found | T           | ○      |
| CNTNAP2    | rs1057520743 | Variant not found | G           | ○      |
| CNTNAP2    | rs1085307838 | Variant not found | C           | ○      |
| COMT       | rs4680       | AG+               | A           | ●      |
| CPS1       | rs1047891    | CC+               | A           | ●      |

| Gene     | SNP         | Genotype          | Rare Allele | Result |
|----------|-------------|-------------------|-------------|--------|
| CR1      | rs3818361   | CC-               | G           | ●      |
| CR1      | rs6656401   | GG+               | G,T         | ●      |
| CRP      | rs3091244   | Variant not found | A,T         | ○      |
| CTNNA3   | rs2306402   | Variant not found | T           | ○      |
| CYP17A1  | rs2486758   | Variant not found | C           | ○      |
| CYP24A1  | rs2296241   | GG+               | A           | ●      |
| CYP24A1  | rs480995    | Variant not found | G           | ○      |
| CYP24A1  | rs4809957   | AG+               | G           | ●      |
| CYP24A1  | rs6068816   | CT+               | T           | ●      |
| CYP2R1   | rs117913124 | Variant not found | A           | ○      |
| CYP3A4   | rs2740574   | AA-               | T           | ●      |
| CYP3A4   | rs4646438   | ---               |             | ●      |
| CYP3A4   | rs55785340  | AA+               | G           | ●      |
| CYP4F2   | rs2108622   | CC+               | T           | ●      |
| DAB2IP   | rs1571801   | AC-               | T           | ●      |
| DAPK1    | rs4877365   | Variant not found | A           | ○      |
| DAPK1    | rs4878104   | Variant not found | T           | ○      |
| DBC1     | rs10984447  | AA+               | G           | ●      |
| DKK1     | rs1881747   | Variant not found | C           | ○      |
| DKKL1    | rs2303759   | TT+               | G           | ●      |
| DLEU1    | rs2762051   | CC+               | T           | ●      |
| DMD      | rs104894788 | GG-               | T           | ●      |
| DMD      | rs1800278   | AA-               | C           | ●      |
| DMD      | rs1801187   | GG-               | T           | ●      |
| DNAJC5B  | rs13279522  | TT+               | C           | ●      |
| DPP6     | rs10239794  | Variant not found | A,C         | ○      |
| DSG2     | rs2230234   | AA+               | G,T         | ●      |
| EHBP1    | rs2710646   | Variant not found | A           | ○      |
| EIF2AK2  | rs2254958   | Variant not found | A           | ○      |
| ELAC2    | rs4792311   | GG+               | A,C         | ●      |
| ENTPD7   | rs911541    | Variant not found | A           | ○      |
| ERG      | rs989554    | Variant not found | A           | ○      |
| ESR2     | rs2987983   | Variant not found | G           | ○      |
| EVI5     | rs10735781  | Variant not found | C           | ○      |
| EVI5     | rs6680578   | Variant not found | A           | ○      |
| F12      | rs1801020   | CT-               | G           | ●      |
| F7       | rs6046      | CT-               | A           | ●      |
| FAM124A  | rs10492519  | Variant not found | C,G         | ○      |
| FAM171A2 | rs5848      | Variant not found | T           | ○      |
| FAM69A   | rs11164838  | Variant not found | T           | ○      |
| FAM69A   | rs7536563   | Variant not found | G           | ○      |
| FCHSD1   | rs251177    | Variant not found | C           | ○      |
| FGF20    | rs1721100   | Variant not found | G,T         | ○      |
| FGFR4    | rs2011077   | Variant not found | T           | ○      |
| FGFR4    | rs351855    | CC-               | A           | ●      |
| FLJ10986 | rs10493256  | Variant not found | T           | ○      |
| FLJ10986 | rs1470407   | CT+               | C           | ●      |
| FLJ10986 | rs333662    | Variant not found | A           | ○      |
| FLJ10986 | rs6587852   | Variant not found | C           | ○      |
| FLJ25967 | rs2331291   | Variant not found | T           | ○      |
| FMN2     | rs17672135  | TT+               | C           | ●      |
| FRMD4A   | rs10906466  | AG+               | C,G         | ●      |
| FYCO1    | rs1545985   | Variant not found | A           | ○      |
| FYCO1    | rs7652331   | Variant not found | A,C         | ○      |
| GAB2     | rs2373115   | GG-               | A           | ●      |
| GATA2    | rs3803      | Variant not found | A           | ○      |
| GATA4    | rs104894073 | Variant not found | A,G,T       | ○      |
| GATA4    | rs104894074 | Variant not found | A           | ○      |
| GCKR     | rs1260326   | CT+               | C           | ●      |
| GOLM1    | rs10868366  | GT+               | T           | ●      |
| GOLM1    | rs7019241   | CT+               | G,T         | ●      |
| GPX1     | rs1050450   | CC-               | A           | ●      |
| GRN      | rs850713    | Variant not found | A,T         | ○      |
| GRN      | rs9897526   | Variant not found | A,C         | ○      |
| GSTP1    | rs1695      | GG+               | G           | ●      |
| HLA-DRA  | rs3135391   | CC-               | A           | ●      |
| HLA-DRA  | rs61731956  | GG+               | A           | ●      |
| HLA-DRB1 | rs3135388   | CC-               | A           | ●      |

| Gene       | SNP        | Genotype          | Rare Allele | Result |
|------------|------------|-------------------|-------------|--------|
| HLA-DRB1   | rs660895   | GG+               | G           | ●      |
| HNF1B      | rs3760511  | Variant not found | A,T         | ○      |
| HSPD1      | rs2340690  | Variant not found | G           | ○      |
| HSPD1      | rs2565163  | Variant not found | A,C         | ○      |
| HSPD1      | rs788016   | Variant not found | A           | ○      |
| HSPE1      | rs2305560  | Variant not found | T           | ○      |
| HTRA1      | rs11200638 | AG+               | A           | ●      |
| IDE        | rs4646954  | Variant not found | A           | ○      |
| IL-10      | rs1800896  | AG-               | C           | ●      |
| IL-18RAP   | rs3771150  | Variant not found | A           | ○      |
| IL-2RA     | rs12722489 | AG-               | T           | ●      |
| IL-2RA     | rs12722561 | Variant not found | A,T         | ○      |
| IL-2RA     | rs2104286  | AG-               | C           | ●      |
| IL-4       | rs2243250  | CC+               | T           | ●      |
| IL-6       | rs1800795  | CG+               | G           | ●      |
| IL-7R      | rs6897932  | CC+               | T           | ●      |
| INTERGENIC | rs10086908 | Variant not found | C           | ○      |
| INTERGENIC | rs10260404 | CT+               | C           | ●      |
| INTERGENIC | rs1027615  | Variant not found | A           | ○      |
| INTERGENIC | rs10505483 | AG-               | T           | ●      |
| INTERGENIC | rs10757278 | GG+               | G           | ●      |
| INTERGENIC | rs10896449 | AA+               | G           | ●      |
| INTERGENIC | rs12473579 | GG+               | A           | ●      |
| INTERGENIC | rs13036957 | Variant not found | A           | ○      |
| INTERGENIC | rs13192841 | GG+               | A           | ●      |
| INTERGENIC | rs1333049  | CC+               | C           | ●      |
| INTERGENIC | rs16901979 | AC+               | A           | ●      |
| INTERGENIC | rs17027230 | Variant not found | T           | ○      |
| INTERGENIC | rs2119704  | CC+               | A           | ●      |
| INTERGENIC | rs2279420  | Variant not found | G           | ○      |
| INTERGENIC | rs2383207  | GG+               | G           | ●      |
| INTERGENIC | rs2836061  | CT+               | T           | ●      |
| INTERGENIC | rs3129934  | Variant not found | C           | ○      |
| INTERGENIC | rs383830   | Variant not found | T           | ○      |
| INTERGENIC | rs4054823  | Variant not found | C           | ○      |
| INTERGENIC | rs4728142  | AG+               | A           | ●      |
| INTERGENIC | rs501120   | AG-               | C           | ●      |
| INTERGENIC | rs5945572  | AG+               | G           | ●      |
| INTERGENIC | rs6690993  | Variant not found | A           | ○      |
| INTERGENIC | rs6700125  | Variant not found | A,C         | ○      |
| INTERGENIC | rs7250581  | Variant not found | G           | ○      |
| INTERGENIC | rs7965399  | TT+               | A,C         | ●      |
| INTERGENIC | rs905080   | Variant not found | G           | ○      |
| INTERGENIC | rs9886784  | Variant not found | C,T         | ○      |
| IRF5       | rs3807306  | Variant not found | A,T         | ○      |
| ITGA2      | rs1126643  | CC+               | T           | ●      |
| ITGA6      | rs10207654 | Variant not found | G           | ○      |
| ITGB3      | rs5918     | TT+               | C           | ●      |
| JAG1       | rs28939668 | Variant not found | T           | ○      |
| JAZF1      | rs10486567 | AG+               | A           | ●      |
| KCNE1      | rs1805127  | AG-               | A,C,G       | ●      |
| KCNE2      | rs2234916  | AA+               | G           | ●      |
| KCNE3      | rs2270676  | CT-               | G           | ●      |
| KCNQ1      | rs1057128  | Variant not found | A           | ○      |
| KIAA1211   | rs629242   | Variant not found | T           | ○      |
| KL         | rs9527025  | Variant not found | C,T         | ○      |
| KL         | rs9536314  | TT+               | A,G         | ●      |
| KLC1       | rs8702     | Variant not found | G           | ○      |
| KLF6       | rs3750861  | CC+               | T           | ●      |
| KLRB1      | rs4763655  | Variant not found | A           | ○      |
| LAG3       | rs870849   | CT+               | C           | ●      |
| LDLR       | rs688      | CC+               | T           | ●      |
| LIPA       | rs1051338  | Variant not found | G           | ○      |
| LIPA       | rs1131706  | Variant not found | T           | ○      |
| LIPA       | rs3802656  | Variant not found | A           | ○      |
| LIPC       | rs3825776  | Variant not found | C           | ○      |
| LOXHD1     | rs988213   | Variant not found | G           | ○      |
| LRP6       | rs2160525  | AG+               | G           | ●      |

| Gene    | SNP         | Genotype          | Rare Allele | Result |
|---------|-------------|-------------------|-------------|--------|
| LRP8    | rs5174      | GG-               | T           | ●      |
| LTA     | rs1799724   | CT+               | T           | ●      |
| MAGEC3  | rs176026    | Variant not found | A           | ○      |
| MAGI2   | rs757863    | Variant not found | G           | ○      |
| MALT1   | rs587777337 | Variant not found | C           | ○      |
| MAOA    | rs1137070   | TT+               | C           | ●      |
| MAOA    | rs3027399   | GG+               | C           | ●      |
| MAOA    | rs909525    | GG-               | T           | ●      |
| MERTK   | rs119489105 | Variant not found | T           | ○      |
| MERTK   | rs527236083 | Variant not found |             | ○      |
| MME     | rs1836915   | Variant not found | C           | ○      |
| MMP3    | rs3025058   | DI+               | G           | ●      |
| MMP9    | rs17576     | Variant not found | G           | ○      |
| MMP9    | rs3918242   | Variant not found | T           | ○      |
| MPO     | rs12316150  | Variant not found | T           | ○      |
| MPO     | rs2333227   | TT+               | T           | ●      |
| MPV17L2 | rs874628    | TT-               | G,T         | ●      |
| MRAS    | rs2306374   | TT+               | C           | ●      |
| MS4A6A  | rs610932    | CC-               | G           | ●      |
| MSMB    | rs10993994  | AA-               | G           | ●      |
| MTHFD1  | rs1076991   | AG-               | C,G         | ●      |
| MTHFD1L | rs11754661  | GG+               | A,T         | ●      |
| MTHFD1L | rs17349743  | TT+               | C           | ●      |
| MTHFD1L | rs6922269   | AG+               | A           | ●      |
| MTHFD1L | rs803422    | Variant not found | C,G         | ○      |
| MYBPC3  | rs11570112  | CC-               | A,C         | ●      |
| NAF1    | rs7675998   | GG+               | G,T         | ●      |
| NCKAP5  | rs10193871  | Variant not found | C           | ○      |
| NKAIN3  | rs7834588   | CT+               | T           | ●      |
| NLRP1   | rs115799546 | Variant not found | G,T         | ○      |
| NOS3    | rs1800779   | AA+               | G           | ●      |
| NOS3    | rs1800783   | Variant not found | C,G,T       | ○      |
| NOS3    | rs207044    | Variant not found | T           | ○      |
| NOS3    | rs3918188   | Variant not found | A,T         | ○      |
| NPPA    | rs5065      | AA+               | G           | ●      |
| OLR1    | rs1050283   | Variant not found | A           | ○      |
| OLR1    | rs11053646  | Variant not found | G           | ○      |
| PCAT19  | rs11672691  | AA+               | T           | ●      |
| PCDH11X | rs5984894   | AA+               | G           | ●      |
| PCK1    | rs8192708   | AG+               | G           | ●      |
| PDE4B   | rs1321172   | Variant not found | G           | ○      |
| PECAM1  | rs281865545 | Variant not found | G,T         | ○      |
| PEX6    | rs387906809 | Variant not found | G           | ○      |
| PEX6    | rs61753224  | Variant not found | A           | ○      |
| PHACTR1 | rs9349379   | AA+               | A           | ●      |
| PICALM  | rs10792832  | AG+               | G           | ●      |
| PICALM  | rs3851179   | AG-               | C           | ●      |
| PLAU    | rs2227562   | GG+               | A           | ●      |
| PLAU    | rs2227564   | TT+               | C           | ●      |
| PLCL2   | rs10510468  | Variant not found | A,T         | ○      |
| PLD3    | rs145999145 | GG+               | A           | ●      |
| PLPP3   | rs17114036  | AA+               | G           | ●      |
| POLN    | rs1923775   | TT+               | T           | ●      |
| PON2    | rs12704795  | Variant not found | G           | ○      |
| PPP1R3B | rs3748140   | GG-               | T           | ●      |
| PPP1R3B | rs9987289   | GG+               | G           | ●      |
| PRRC2C  | rs2421847   | AA+               | G           | ●      |
| PSEN1   | rs121917807 | Variant not found | A           | ○      |
| PSEN1   | rs63749805  | Variant not found | G,T         | ○      |
| PSEN1   | rs63749824  | CC+               | G,T         | ●      |
| PSEN1   | rs63749911  | Variant not found | C           | ○      |
| PSEN1   | rs63749962  | Variant not found | G           | ○      |
| PSEN1   | rs63749967  | Variant not found | C           | ○      |
| PSEN1   | rs63750004  | Variant not found | A,C         | ○      |
| PSEN1   | rs63750218  | Variant not found | C,G         | ○      |
| PSEN1   | rs63750299  | Variant not found | G           | ○      |
| PSEN1   | rs63750306  | Variant not found | C,G,T       | ○      |
| PSEN1   | rs63750325  | Variant not found | A           | ○      |

| Gene    | SNP          | Genotype          | Rare Allele | Result |
|---------|--------------|-------------------|-------------|--------|
| PSEN1   | rs63750391   | Variant not found | A,C,T       | ○      |
| PSEN1   | rs63750450   | Variant not found | G           | ○      |
| PSEN1   | rs63750526   | Variant not found | A           | ○      |
| PSEN1   | rs63750550   | Variant not found | G,T         | ○      |
| PSEN1   | rs63750730   | Variant not found | T           | ○      |
| PSEN1   | rs63750907   | Variant not found | T           | ○      |
| PSEN1   | rs63751106   | Variant not found | A,C         | ○      |
| PSEN1   | rs63751272   | Variant not found | C,T         | ○      |
| PSEN1   | rs63751441   | Variant not found | G,T         | ○      |
| PSEN1   | rs63751484   | Variant not found | C           | ○      |
| PSEN2   | rs150400387  | Variant not found | G,T         | ○      |
| PSEN2   | rs574125890  | Variant not found | A,T         | ○      |
| PSEN2   | rs61757781   | Variant not found | G           | ○      |
| PSEN2   | rs63750197   | CC+               | T           | ●      |
| PSEN2   | rs63750812   | Variant not found | A           | ○      |
| PSEN2   | rs775145486  | Variant not found | G           | ○      |
| PSMA6   | rs1048990    | CG+               | G,T         | ●      |
| PSRC1   | rs599839     | AA+               | A,C         | ●      |
| RNASEL  | rs3738579    | CT-               | G           | ●      |
| RNASEL  | rs486907     | Variant not found | T           | ○      |
| RPL5    | rs6604026    | Variant not found | C,G         | ○      |
| RPS6KB1 | rs630923     | CC+               | A           | ●      |
| RYR2    | rs34967813   | AA+               | G           | ●      |
| SAMD12  | rs17749211   | Variant not found | T           | ○      |
| SCN5A   | rs1805124    | GG-               | T           | ●      |
| SELENOP | rs3877899    | Variant not found |             | ○      |
| SEZ6L   | rs688034     | Variant not found | T           | ○      |
| SH2B3   | rs3184504    | CC+               | A,C,G       | ●      |
| SLC30A7 | rs11581062   | AA+               | G           | ●      |
| SMAD3   | rs17228212   | TT+               | C           | ●      |
| SOD1    | rs17880487   | Variant not found | T           | ○      |
| SOD3    | rs1799895    | CC+               | G           | ●      |
| SOD3    | rs2855262    | TT+               | C           | ●      |
| SORL1   | rs12285364   | Variant not found | T           | ○      |
| SORL1   | rs2070045    | Variant not found | G           | ○      |
| SORL1   | rs641120     | Variant not found | A           | ○      |
| SORL1   | rs661057     | Variant not found | C           | ○      |
| SORL1   | rs668387     | Variant not found | A,T         | ○      |
| SORL1   | rs689021     | Variant not found | A           | ○      |
| SYK     | rs10993738   | Variant not found | C           | ○      |
| TAP2    | rs241448     | Variant not found | G           | ○      |
| TCF2    | rs4430796    | AG+               | G           | ●      |
| TCF7L2  | rs12255372   | GG+               | T           | ●      |
| TET1    | rs5030882    | Variant not found | T           | ○      |
| THBS2   | rs8089       | Variant not found | C           | ○      |
| TLR4    | rs4986790    | AA+               | G,T         | ●      |
| TLR4    | rs4986791    | CC+               | T           | ●      |
| TM2D3   | rs139709573  | Variant not found | A           | ○      |
| TMPO    | rs17028450   | CC+               | T           | ●      |
| TMPRSS2 | rs12329760   | CT+               | T           | ●      |
| TNF     | rs1800629    | GG+               | A           | ●      |
| TNFSF14 | rs2291667    | CC-               | A           | ●      |
| TNFSF14 | rs344560     | GG-               | C           | ●      |
| TNFSF4  | rs1234313    | AG+               | G           | ●      |
| TNFSF4  | rs1234315    | Variant not found | T           | ○      |
| TNFSF4  | rs3850641    | Variant not found | G           | ○      |
| TNFSF4  | rs3861950    | TT+               | C           | ●      |
| TREM2   | rs28937876   | Variant not found | A           | ○      |
| TREM2   | rs5143332484 | Variant not found |             | ○      |
| TREM2   | rs75932628   | CC+               | A,T         | ●      |
| TRPM7   | rs8042919    | Variant not found | A,T         | ○      |
| TTN     | rs16866412   | Variant not found | A           | ○      |
| TTN     | rs2244492    | GG-               | T           | ●      |
| TTPA    | rs121917849  | Variant not found | C           | ○      |
| TTPA    | rs121917850  | GG-               | T           | ●      |
| TTPA    | rs121917851  | CC-               | A           | ●      |
| TTR     | rs1800458    | Variant not found | A           | ○      |
| TXNRD2  | rs5748469    | AA+               | A           | ●      |

| Gene    | SNP        | Genotype          | Rare Allele | Result |
|---------|------------|-------------------|-------------|--------|
| VDR     | rs2107301  | Variant not found | A           | ○      |
| VDR     | rs2238135  | Variant not found | G           | ○      |
| XRCC1   | rs25489    | GG-               | G,T         | ●      |
| ZNF767P | rs354033   | CC-               | A           | ●      |
| ZNF827  | rs13149290 | TT+               | T           | ●      |
| ZPR1    | rs964184   | CC+               | C           | ●      |

