# Genomics Report for ukE3E2DF 

## 1 Summary

Thank you for donating your genomic information to the Personal Genomes Project - United Kingdom. We have compiled this genome report from the data and we hope you will find it useful.

This is the genome report for participant ukE3E2DF . It was produced using collaborative research tools, including SNPedia and GetEvidence. This summary shows an overview of all the variants identified in your donation.

This report was generated automatically and is not clinically approved. It is provided for personal and research purposes only.

This document contains hyperlinks, shown in grey, that will take you to external websites where you can find more detailed explanations. Some of the technical terms are also explained in more detail in the Ensembl Glossary. We would welcome your feedback about this report, for example, if you would like more information about anything or if any of the links have become inactive. You can contact us on: pgp-uk@ucl.ac.uk.

There are several different types of genomic variants. The most common are single nucleotide variants (SNV) that correspond to the change of a single nucleotide in the DNA. Other variant types include insertions, where the DNA in the individual is longer than the reference sequence due to the insertion of one or more nucleotides; and deletions, where a few nucleotides are missing compared to the reference sequence. The types of variants being looked at in this report depend on the type of data donated to PGP-UK. Some sections of the report or variant types might be omitted if the donated data is not whole genome sequencing data.

Variants can be found throughout the genome. "Overlapped genes" refers to variants that were found in a region of the genome containing a gene. "Exon" refers to the part of the gene which goes on to form a protein, and variants in this part of the gene are more likely to cause changes in the shape of the protein. Upstream, downstream, intronic and intergenic variants are more likely to alter the regulation of that gene but will not change the protein itself.

A transcript for a protein-coding gene can include the exons, introns and other gene features that are transcribed and important for gene function but might not be translated into the final protein. Not all transcripts are for protein-coding genes, with many containing non-coding RNAs that can be overlapping other genes, in introns or in intergenic regions. The diagram in Figure 1 is a simplification of the usual gene structure.


Figure 1: Diagram of gene structure indicating locations of potential variants

## 2 Ancestry

This plot shows the distribution of the genomes of different populations. Data from several studies which used whole genome sequencing was used to see the relationships between the genomes of the populations. It shows how closely related certain populations are genetically: Groups which cluster closely are more genetically similar than groups which are further apart. The black star symbol shows where this PGP-UK participant sits in relation to other populations, indicating their ancestry and their most closely related populations according to genetic sequence.

## Ancestry ukE3E2DF



Figure 2: Ancestry Principal Component Analysis

## 3 Traits (based on SNPedia information)

Existing research has associated many variants with phenotypic traits, some of which can be perceived as beneficial while others appear to have a harmful effect. Some traits are complex and can be affected by several variants. It is likely that some of these would confer a higher risk while others a lower risk of trait manifestation. These can not be combined linearly to produce an actual risk of disease.

It is important to note that in most cases genomic data is probabilistic, not deterministic- i.e. having a genetic predisposition for a disease is not a diagnosis; rather, it shows an increased likelihood of developing that disease. Also, one person can have both potentially beneficial and harmful variants in the same gene, or associated with the same disease.

Some variants can also affect certain populations more, or will only affect a particular gender. For example, a variant for higher risk of endometriosis in the sequence of a male will not directly affect that person, but can be passed on to descendants.

While many traits are the result of a unique variant, many are the combination of several variants throughout the genome. In SNPedia, these are called genosets. These can integrate some of the information already present in the single variant tables, or be the combination of variants that have no phenotypic effect on their own, but contribute to a trait when together.

The variants in the following tables are sorted by magnitude. This is an subjective measure defined in SNPedia to highlight the perceived importance of the genotype described. At the moment this scale goes from 0 to 10 . You can read more about it by visiting their explanatory webpage.

As our knowledge grows, the interpretation of the effect of certain variants might change. Clicking on the links in the genome report tables will take you to websites containing more information about each variant.

- Possibly Beneficial Traits

| Mag. | Identifier | Genotype | Summary | ExAC | GetEvidence | ClinVar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.4 | rs2802288 | (A;A) | Longer lifespan |  |  |  |
| 2.1 | rs547154 | ( $\mathrm{A} ; \mathrm{C}$ ) | 0.47x decreased risk for AMD |  |  | Link |
| 2.1 | rs6505162 | (A;A) | 0.43x decreased risk for esophageal cancer | Link |  |  |
| 2 | rs12979860 | (C;C) | ~ $80 \%$ of such hepatitis C patients respond to tr... |  | Link | Link |
| 2 | rs1799884 | (G;G) | Mothers have typical Birth-Weight babies. Sligh... |  |  |  |
| 2 | rs1864163 | (G;G) | Associated with higher HDL cholesterol |  | Link |  |
| 2 | rs2060793 | (A;A) | Lower serum levels of vitamin D |  |  |  |
| 2 | rs261332 | ( $\mathrm{A} ; \mathrm{A}$ ) | Associated with higher HDL cholesterol |  |  |  |
| 2 | rs3819331 | (T;T) | Lower risk of autism | Link |  | Link |
| 2 | rs4149268 | (G;G) | Associated with higher HDL cholesterol |  | Link |  |
| 2 | rs505922 | (T;T) | Blood type O |  | Link |  |
| 2 | rs7216389 | (C;C) | 0.69x lower risk of Childhood Asthma. |  | Link |  |
| 2 | rs9642880 | (G;G) | Slightly lower risk of Bladder Cancer. |  | Link |  |
| 1.6 | rs10801935 | (C;C) | 0.3x decreased risk of breast cancer |  |  |  |
| 1.6 | rs3775948 | (C;C) | Slightly lower risk for gout |  |  |  |
| 1.5 | rs3851179 | ( $\mathrm{A} ; \mathrm{A}$ ) | 0.85x decreased risk for Alzheimer's disease |  | Link |  |
| 1.5 | rs4149274 | (C;C) | Associated with higher HDL (good) cholesterol. |  |  |  |
| 1.5 | rs610932 | ( $\mathrm{A} ; \mathrm{A}$ ) | A allele associated with reduced risk of Alzhei... |  |  |  |
| 1.5 | rs6427528 | ( $\mathrm{A} ; \mathrm{A}$ ) | For rheumatoid arthritis patients: better respo... |  |  |  |
| 1.5 | rs9939609 | (T;T) | Lower risk of obesity and Type-2 diabetes |  | Link |  |
| 1.2 | rs4686484 | (G;G) | Slightly decreased risk for celiac disease |  |  |  |
| 1.2 | rs6048 | (G;G) | Slightly lower risk (10-20\%) of deep vein throm... | Link | Link | Link |
| 1 | rs182549 | (C;T) | Can digest milk. |  |  | Link |
| 1 | rs7850258 | (A;G) | Typical odds of developing primary hypothyroidi... |  |  |  |
| 1 | rs8179183 | (G;G) | Less likely to gain weight if taking risperidon... | Link | Link |  |
| 1.0 | rs11246226 | (C;C) | Decreased risk of schizophrenia in limited stud... |  | Link |  |
| 0 | rs1047781 | ( $\mathrm{A} ; \mathrm{A}$ ) | ABH blood group "Secretor" status if Japanese | Link | Link | Link |
| 0 | rs12252 | (T;T) | More resistant to influenza | Link |  | Link |


| Mag. | Identifier | Genotype | Summary | ExAC | GetEvidence | ClinVar |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | rs16990018 | (A;A) | PrP Codon 171 Asn - Non-pathogenic variant | Link |  |  |
| 0 | rs17244841 | (A;A) | More responsive to statin treatment |  | Link |  |
| 0 | rs1799782 | (C;C) | Lower risk for skin cancer | Link | Link | Link |
| 0 | rs1799945 | (C;C) | Not a H63D hemochromatosis carrier. | Link | Link | Link |
| 0 | rs1800562 | (G;G) | Not a C282Y hemochromatosis carrier. | Link | Link | Link |
| 0 | rs28933385 | (G;G) | Prion protein Codon 200 (E) - Non pathogenic va... |  |  | Link |
| 0 | rs5065 | (A;A) | 1.12x risk on diuretic; if hypertensive: better... | Link | Link | Link |
| 0 | rs6259 | (G;G) | Best inverse correlation between tea-drinking:... | Link | Link |  |
| 0 | rs74315403 | (G;G) | PrP codon 178 (D) - non pathogenic variant |  |  | Link |
| 0 | rs7495174 | (A;A) | Blue/gray eyes more likely |  | Link |  |
| 0 | rs9394492 | (C;C) | $<0.76$ risk for restless legs |  |  |  |

- Possibly Harmful Traits

| Mag. | Identifier | Genotype | Summary | ExAC | GetEvidence | ClinVar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3.8 | rs5186 | (C;C) | 7.3x increased risk of hypertension | Link | Link | Link |
| 3.5 | rs1800546 | (C;G) | Carrier for high risk of of hereditary fructose... | Link | Link | Link |
| 3.5 | rs7574865 | (T;T) | 1.69x risk of rheumatoid arthritis; 2.4 x risk o... |  | Link | Link |
| 3.1 | rs10830963 | (G;G) | Increased type-2 diabetes risk; higher gestatio... |  | Link |  |
| 3 | rs13266634 | (C;C) | Increased risk for type-2 diabetes | Link | Link | Link |
| 3 | rs891512 | (A;A) | Higher blood pressure than G;G | Link |  | Link |
| 2.6 | rs110419 | (A;A) | 2.6 x increased risk for neuroblastoma |  |  |  |
| 2.5 | rs10484554 | (T;T) | $\sim 4 \mathrm{x}$ increased risk for psoriasis |  | Link |  |
| 2.5 | rs10490924 | (G;T) | 2.7x risk for age related macular degeneration | Link | Link | Link |
| 2.5 | rs1057910 | ( $\mathrm{A} ; \mathrm{C}$ ) | CYP2C9*3 carrier; average 40\% reduction in warf... | Link | Link | Link |
| 2.5 | rs16969968 | (A;G) | Slightly higher risk for nicotine dependence: l... | Link | Link | Link |
| 2.5 | rs339331 | (T; T ) | Prostate cancer risk |  |  |  |
| 2.5 | rs3738919 | (C;C) | 1.94x risk of developing rheumatoid arthritis |  |  |  |
| 2.5 | rs5888 | (C;T) | 3 x higher risk for age-related macular degenera... | Link |  |  |
| 2.4 | rs1143679 | (A;G) | 1.78x increased risk for SLE | Link | Link |  |
| 2.3 | rs1859962 | (G;G) | 1.28x increased risk for prostate cancer |  | Link |  |
| 2.2 | rs2004640 | (G;T) | 1.4 x increased risk for SLE |  | Link | Link |
| 2.2 | rs2231137 | (G;G) | ${ }^{1} 1.5-3 \mathrm{x}$ increased risk for ischemic stroke | Link | Link | Link |
| 2.2 | rs3129934 | (T;T) | 3.3 x increased risk for multiple sclerosis |  | Link |  |
| 2.1 | rs1050152 | ( $\mathrm{T} ; \mathrm{T}$ ) | 2.1x increased risk of Crohn's disease | Link | Link | Link |
| 2.1 | rs17563 | (C;C) | Risk for otosclerosis | Link | Link | Link |
| 2.1 | rs2231142 | (A;C) | 1.74x increased gout risk; gefinitib takers 4x ... | Link | Link | Link |
| 2.1 | rs2254958 | (C;T) | 1.24x increased risk for Alzheimer's |  |  |  |
| 2.1 | rs2294008 | (T; T ) | Increased risk of gastric and bladder cancer | Link | Link |  |
| 2.1 | rs380390 | (C;C) | Increased risk for ARMD |  | Link |  |
| 2.1 | rs4444903 | (G;G) | 3.5x risk of hep-cancer in cirrhosis patients; ... |  |  | Link |
| 2.1 | rs4693596 | (C;C) | 2 x odds of myopathy if taking statins |  |  |  |
| 2.1 | rs5751876 | ( $\mathrm{T} ; \mathrm{T}$ ) | Significantly higher anxiety levels after moder... | Link |  |  |
| 2 | rs10248420 | (A;A) | 7x less likely to respond to certain antidepres... |  | Link |  |
| 2 | rs1045642 | (C;T) | Slower metaboliser for some drugs | Link | Link | Link |
| 2 | rs1051730 | (C;T) | 1.3x increased risk of lung cancer | Link | Link | Link |
| 2 | rs10984447 | (A;A) | $>1.17 \mathrm{x}$ increased risk for multiple sclerosis |  | Link |  |
| 2 | rs11171739 | (C;C) | 1.75x risk of developing Type-1 diabetes |  | Link |  |
| 2 | rs1160312 | (A;A) | 1.6x increased risk of Male Pattern Baldness. |  | Link |  |
| 2 | rs11650354 | (T; T ) | 8x risk for allergic asthma | Link |  |  |
| 2 | rs11983225 | (T; T ) | 7x less likely to respond to certain antidepres... |  | Link |  |
| 2 | rs12431733 | (T; T) | Increased risk of developing Parkinson's Diseas... |  | Link |  |
| 2 | rs12469063 | (G;G) | Increased risk of developing restless legs synd... |  |  |  |
| 2 | rs1361600 | (G;G) | 2x increased risk for adult-onset asthma in Ja... |  |  |  |
| 2 | rs1544410 | (A;A) | Increased risk of low bone mineral density diso... |  | Link |  |
| 2 | rs16942 | (A;G) | Very slightly increased breast cancer risk | Link | Link | Link |
| 2 | rs1734791 | (A;A) | 1.4 x increased risk for lupus |  |  |  |
| 2 | rs17435 | (T;T) | 1.4 x increased risk for lupus |  |  |  |
| 2 | rs17576 | (A;G) | Higher risk for MI and lung cancer: and COPD in... | Link | Link | Link |
| 2 | rs1800896 | (A;A) | 1.8x increased prostate cancer risk |  |  |  |
| 2 | rs1801160 | (A;G) | Possible 5-fluorouracil toxicity | Link | Link | Link |
| 2 | rs2235015 | (G;G) | Somewhat less likely to respond to certain anti... | Link | Link |  |
| 2 | rs2235040 | (G;G) | 7 x less likely to respond to certain antidepres... | Link | Link |  |
| 2 | rs2235067 | (G;G) | 7x less likely to respond to certain antidepres... |  |  |  |
| 2 | rs2305480 | (C;T) | 3.5x increase in risk of asthma for Han Chinese... | Link | Link |  |
| 2 | rs25487 | (A;G) | 2x higher risk for skin cancer; possibly other ... | Link | Link | Link |
| 2 | rs2697962 | (A;A) | Increased risk of developing Parkinson's Diseas... |  |  |  |
| 2 | rs2736100 | (T; T) | Higher risk of Interstitial lung disease: and t... |  | Link | Link |


| Mag. | Identifier | Genotype | Summary | ExAC | GetEvidence | ClinVar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | rs3738579 | (C;C) | 0.6x decreased risk for cervical cancer: but 1... |  |  |  |
| 2 | rs3746444 | (C;T) | ${ }^{1} 1.2 \mathrm{x}$ increased risk for cancer | Link |  |  |
| 2 | rs3790565 | (C;C) | Increased risk of developing primary biliary ci... |  |  |  |
| 2 | rs3802842 | (C;C) | $>1.17 \mathrm{x}$ increased risk of colorectal cancer |  | Link |  |
| 2 | rs4148739 | (A;A) | 7x less likely to respond to certain antidepres... |  | Link |  |
| 2 | rs4242382 | (A;A) | 1.7 x increased risk for prostate cancer |  | Link |  |
| 2 | rs4792311 | (A;A) | Increased risk of prostate cancer | Link | Link | Link |
| 2 | rs486907 | ( $\mathrm{A} ; \mathrm{A}$ ) | 2 x increased prostate cancer risk | Link | Link | Link |
| 2 | rs6601764 | (C;C) | 1.52x increased risk of developing Crohn's dise... |  | Link |  |
| 2 | rs6807362 | (C;C) | Increased autism risk | Link | Link |  |
| 2 | rs6897932 | (C;C) | 1.08 x increased risk for multiple sclerosis | Link | Link | Link |
| 2 | rs699 | (C;C) | Increased risk of hypertension | Link | Link | Link |
| 2 | rs7442295 | (A;A) | ${ }^{\sim} 4 \mathrm{x}$ higher risk for hyperuracemia |  | Link | Link |
| 2 | rs744373 | (C;C) | 1.17x risk of Alzheimer's |  |  |  |
| 2 | rs7923837 | (G;G) | 3.2 x risk for T2D |  |  |  |
| 2 | rs7961152 | (A;A) | 1.5x higher risk for hypertension |  |  |  |
| 2 | rs800292 | (C;C) | 5\% higher risk of Age related macular degenerat... | Link | Link | Link |
| 2 | rs9543325 | (C;C) | 1.37x Slightly higher pancreatic cancer risk |  |  |  |
| 2 | rs9652490 | (A;A) | ~ 2 x increased risk for Parkinson's disease: and... |  | Link |  |
| 2 | rs965513 | (A;A) | 3.1x increased thyroid cancer risk |  | Link |  |
| 2.0 | rs2305795 | (A;A) | 1.64x higher risk of narcolepsy compared to (G;... |  |  | Link |
| 1.8 | rs1136287 | (C;T) | 1.5x increased risk of wet ARMD in a Taiwanese ... | Link | Link | Link |
| 1.8 | rs143383 | (T; T ) | 1.3 x increased risk for osteoarthritis |  | Link | Link |
| 1.8 | rs2278206 | (T; T ) | 1.16x increased risk for asthma | Link | Link |  |
| 1.6 | rs11523871 | (A;C) | 1.6x increased breast cancer risk for women ove... | Link | Link |  |
| 1.6 | rs2981745 | (C;T) | 1.6x increased risk for breast cancer in female... |  |  |  |
| 1.6 | rs3764880 | (A;A) | 1.2-1.8x increased tuberculosis risk | Link | Link |  |
| 1.5 | rs1169300 | (A;G) | ${ }^{1.5 x}$ increased lung cancer risk |  |  |  |
| 1.5 | rs12498742 | (A;A) | 1.25 increased risk for gout |  |  |  |
| 1.5 | rs13181 | (G;T) | 1.12 x increased risk for cutaneous melanoma | Link | Link | Link |
| 1.5 | rs144848 | (G;T) | Very slightly increased breast cancer risk | Link | Link | Link |
| 1.5 | rs165599 | (G;G) | May indicate increased susceptibility to schizo... |  | Link |  |
| 1.5 | rs17115100 | (G;T) | Slightly increased risk of developing Parkinson... | Link | Link |  |
| 1.5 | rs1801274 | (T; T ) | Complex; generally greater risk for cancer prog... | Link | Link | Link |
| 1.5 | rs1867277 | (A;G) | 1.5x increased risk for thyroid cancer |  |  |  |
| 1.5 | rs2007153 | (G;G) | Increased risk of schizophrenia in limited stud... |  |  |  |
| 1.5 | rs2076295 | (G;G) | Slightly increased risk for pulmonary fibrosis ... |  |  |  |
| 1.5 | rs2240340 | (A;A) | Slightly increased (1.5x) risk for RA | Link |  |  |
| 1.5 | rs2241880 | (C;T) | 1.4x increased risk for Crohn's disease in Cauc... | Link | Link | Link |
| 1.5 | rs2272127 | (C;C) | Associated with herpes and schizophrenia |  |  |  |
| 1.5 | rs2464196 | (C;T) | $\sim 1.5 \mathrm{x}$ increased lung cancer risk | Link | Link | Link |
| 1.5 | rs2881766 | ( $\mathrm{T} ; \mathrm{T}$ ) | Slightly increased risk for pregnancy-induced h... |  |  |  |
| 1.5 | rs393152 | (A;A) | Increased risk of both PD and AD | Link | Link |  |
| 1.5 | rs464049 | (T; T) | Increased risk of schizophrenia in limited stud... |  |  |  |
| 1.5 | rs4982731 | (C;C) | Possible higher risk of childhood acute lymphob... |  |  |  |
| 1.5 | rs5746059 | (A;A) | Slightly higher fat mass |  |  |  |
| 1.5 | rs7341475 | (G;G) | 1.58x increased schizophrenia risk for women |  | Link |  |
| 1.5 | rs872071 | (G;G) | ${ }^{\sim} 1.5 \mathrm{x}$ increased risk for chronic lymphocytic le... |  | Link |  |
| 1.4 | rs10865331 | (A;A) | 1.4x higher risk for ankylosing spondylitis |  |  |  |
| 1.4 | rs1126497 | (T; T ) | 1.4 x increased risk for breast cancer | Link | Link | Link |
| 1.4 | rs1801157 | (A;G) | 1.4x higher risk for breast cancer |  |  |  |
| 1.4 | rs2230201 | (A;G) | 1.4x risk of lupus | Link |  | Link |
| 1.4 | rs3131296 | (G;G) | 1.4 x increased risk for schizophrenia |  | Link |  |
| 1.4 | rs3849942 | (A;A) | 1.4 x increased risk for ALS |  | Link |  |
| 1.4 | rs4795067 | (G;G) | Slight increase in risk for psoriatic arthritis... |  |  |  |


| Mag. | Identifier | Genotype | Summary | ExAC | GetEvidence | ClinVar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1.4 | rs498872 | (T;T) | 1.4x higher risk for glioma development |  | Link |  |
| 1.3 | rs10947262 | (C;C) | 1.3 x increased risk for osteoarthritis |  |  |  |
| 1.3 | rs1434536 | (A;G) | 1.29x increased breast cancer risk |  |  | Link |
| 1.2 | rs419788 | (A;G) | 2.0x risk for lupus | Link |  |  |
| 1.2 | rs4324715 | (C;C) | $>1.5 \mathrm{x}$ increased testicular cancer risk for men |  |  |  |
| 1.17 | rs17465637 | (A;C) | 1.17 x higher risk for myocardial infarction | Link | Link |  |
| 1.15 | rs748404 | (C;T) | Very slightly increased risk (1.15) for lung ca... |  | Link |  |
| 1.1 | rs11037909 | (C;T) | 1.27 x type II diabetes risk | Link |  |  |
| 1.1 | rs2653349 | (G;G) | 2-6x increased risk for cluster headaches | Link | Link |  |
| 1.1 | rs2828520 | (G;G) | 1.35x major depressive disorder risk |  |  |  |
| 1.1 | rs34516635 | (G;G) | Less longevity for Ashkenazi Jewish women. | Link |  | Link |
| 1.1 | rs3740878 | (A;G) | 1.26x type II diabetes risk | Link |  | Link |
| 1.1 | rs7412 | (C;C) | More likely to gain weight if taking olanzapine... | Link | Link | Link |
| 1.05 | rs2291834 | (C;T) | Very slightly higher risk for myocardial infarc... |  |  |  |
| 1 | rs1143674 | (A;G) | 1.3x increased autism risk | Link |  |  |
| 1 | rs6932590 | ( $\mathrm{T} ; \mathrm{T}$ ) | 1.1x increased risk for schizophrenia |  | Link |  |
| 1 | rs798766 | ( $\mathrm{T} ; \mathrm{T}$ ) | Increased susceptibility urinary bladder cancer... |  |  |  |
| 0.1 | rs601338 | (A;G) | Susceptible to Norovirus infections | Link | Link | Link |
| 0 | rs1004819 | (C;C) | 1.5x risk of Crohn's disease |  | Link |  |
| 0 | rs1042173 | ( $\mathrm{T} ; \mathrm{T}$ ) | Among alcoholics: likely to be heavier drinkers... |  |  | Link |
| 0 | rs1061646 | (C;C) | 1.16x increased risk for breast cancer | Link |  | Link |
| 0 | rs10761659 | (A;A) | 1.5x risk of Crohn's disease |  | Link |  |
| 0 | rs1495965 | (A;A) | 1.2x higher risk for spondylitis |  |  |  |
| 0 | rs4293393 | ( $\mathrm{T} ; \mathrm{T}$ ) | 1.25x Increased Risk of CKD for T allele in ... |  |  |  |
| 0 | rs6314 | (C;C) | Higher risk for RA | Link | Link |  |

- Genosets (Multi-variant Phenotypes)

| Magnitude | Identifier | Summary |
| :--- | :--- | :--- |
| 3.1 | gs191 | Problem metabolizing NSAIDs |
| 2.9 | gs192 | MTHFR polymorphisms affecting homocysteine |
| 2.5 | gs155 | CYP3A5 non-expressor |
| 2.5 | gs161 | CYP2C9 Intermediate Metabolizers |
| 2.5 | gs281 | Part of the 88\% of the population claimed not t... |
| 2.5 | gs285 | You will lose 2.5x as much weight on a low fat ... |
| 2.4 | gs297 | Lower heart attack risk than average |
| 2.2 | gs280 | Light hair color for europeans |
| 2 | gs101 | Probably able to digest milk |
| 2 | gs103 | Restless legs syndrome risk |
| 2 | gs154 | NAT2 Slow metabolizer |
| 2 | gs159 | CYP1A2 fast metabolizer |
| 2 | gs179 | CYP2D6*41 |
| 2 | gs181 | CYP2D6*2 |
| 2 | gs188 | One copy of APOE4 is possible: but not certain |
| 1.8 | gs1002 | Mitochondrial Haplogroup H1 |
| 1.5 | gs1001 | Mitochondrial Haplogroup H |
| 1.5 | gs247 | Parkinson's Disease Risk |
| 1.2 | gs184 | Able to taste bitterness. |
| 0.1 | gs233 | Normal pain sensitivity |

## 4 Report Metadata

| Resource | Version | Website |
| :--- | :--- | :--- |
| Genome | GRCh37 | Link |
| BWA | 0.7 .12 | Link |
| SAMtools | 1.3 | Link |
| GATK | $3.4-46$ | Link |
| PLINK | v1.90b3.35 | Link |
| SNPedia | $30-J u l-2017$ | Link |
| ExAC | v0.3.1 | Link |
| GetEvidence | 30-Jul-2017 | Link |
| ClinVar | 30-Jul-2017 | Link |

Table 4: Analysis Pipeline Versions
Report generated on February 22, 2018 (using report generator version 18-053).

