

Index

1. Introduction	
1.1. Frequently Asqued Questions	
2. Summary	
3. Genetic Results	
3.1. What information is included in the results?	8
3.2. Your genetic results	
MAS IN	
3.2. Your geletity results	

1. Introduction

In the following pages you will find your nutrigenetics report created from the analysis of your DNA. You will get detailed information about the relationship between your genes and your nutritional response.

Thanks to the sequencing of your DNA and its subsequent analysis, you will know the response predisposition of your body to nutrients such as fats, carbohydrates, vitamins and minerals, which is a great help when adapting your diet.

Nutrigenetics is just one part of the elements that influence your response to nutrition. Other factors such as allergies, intolerances, bioma and lifestyle habits also influence your response to food and these are not reflected in the report.

For a better visualization, in the first pages you can find an icons summary that graphically indicate the balance of your results. Frictioned by your customized analysis.

We remind you that any charges you want to make in your diet should be guided by health professionals such as Nutritionists, Genetice's propostors.

Any doubts that you may have about your genetic test should be checked with a Genetic Diagnosis professional or Specialized Nutritioniste.

The information provided in this report is valid only for research, information and educational uses. In no case is it valid for clinical or diagnostic use.

Thanks for trusting us.

1.1. Frequently Asqued Questions

Is this test the same as food intolerance tests?

No, a genetic test has nothing to do with a test of food intelecance, nor with food allergies tests. They are different tests with totally different information. Denotion testing is infinitely more complex and expensive than the tests described above and the genetic information we get can not be found in any other way.

Should I make drastic changes because of this test results?

No, any changes you want to make in your health and nutrition management should be guided by health professionals such as nutritionists, geneticists or doctors. Any question you have about any genetic test should be checked with an experts in Genetic Diagnosis or Specialized Nutritionists.

Does it all depend on my genes?

No, our body responds to a lot of conditions. Our genes are certainly an important parameter. Lifestyle, sport, food, and many other circumstances influence our body. Knowing yourself well clearly help us to treat our body in the most appropriate way. And this is what this tests are about:

more knowledge.

Are all the analyzed genes listed in the sections?

We include only a sample of the genes we analyze, some of the sections are defined by the analysis of some more genes that we do not show in the report. Our algorithms combine all your genotypes from the analyzed markers.

What is this report based on?

This test is based on different genetic studies internationally consolidated and accepted by the scientific community. There are some scientific databases where studies, with a certain level of consensus, are published. Our genetic tests is done by applying these studies to your genotype. In each section you will see some of the studies on which it is based. There are sections where more studies are used than those listed.

The information provided in this report is valid only for research, information and educational uses. It is not valid for clinical or diagnostic use.

Nutrition report for Jane. CP11111111

2. Summary



This report is not valid for clinical or diagnostic use. Page 5 of 40



Caption:

Your analyzed genotype is favorable. Your analyzed genotype is a little favorable. Your analyzed genotype doesn't particularly affect you. Your analyzed genotype is a little unfavorable. Your analyzed genotype is unfavorable. Your weight and you Effectiveness of the Mediterranean Effectiveness of the Low Fat Diet Diet Predisposition to overweight Difficulty losing weight Response to Monounsaturated Feeling of Satiety Fats **Emotional eating** Eating desire Effectiv s of the Low Carb ate Diet Caption: 🛑 Your analyzed genotype is favo Your analyzed genotype is a little Your analyzed genotype doesn't part Your analyzed genotype is a little unfav Your analyzed genotype is unfavorable.





3. Genetic Results

3.1. What information is included in the results?



3.2. Your genetic results

Increased Benefits of the Mediterranean Diet

The health benefits of the Mediterranean diet are widely known. This diet is rich in monounsaturated fats, important for reducing the risk of cardiovascular disease, and high in Gene Genotype HDL (good) cholesterol, which delays cognitive impairment. PPARG CC It is also associated with increased longevity and lower levels of LDL cholesterol, which accumulates in the arteries. Following a Mediterranean diet is associated with reducing cardiovascular risk mortality as well as overall mortality. It is also associated with a reduced incidence of cancer, Parkinson's di e and Alzheimer's. Women who suppleme ir Mediterranean diet with virgin olive oil and walnuts m their risk of breast cancer (according to the Mayo Clir been associated with an Certain genetic variations have increased benefit when following a nean diet. Medi Š, What does your genetic say? The Mediterranean diet affects you just as well as the rest. More information:

http://circgenetics.ahajournals.org/content/8/1/91.long

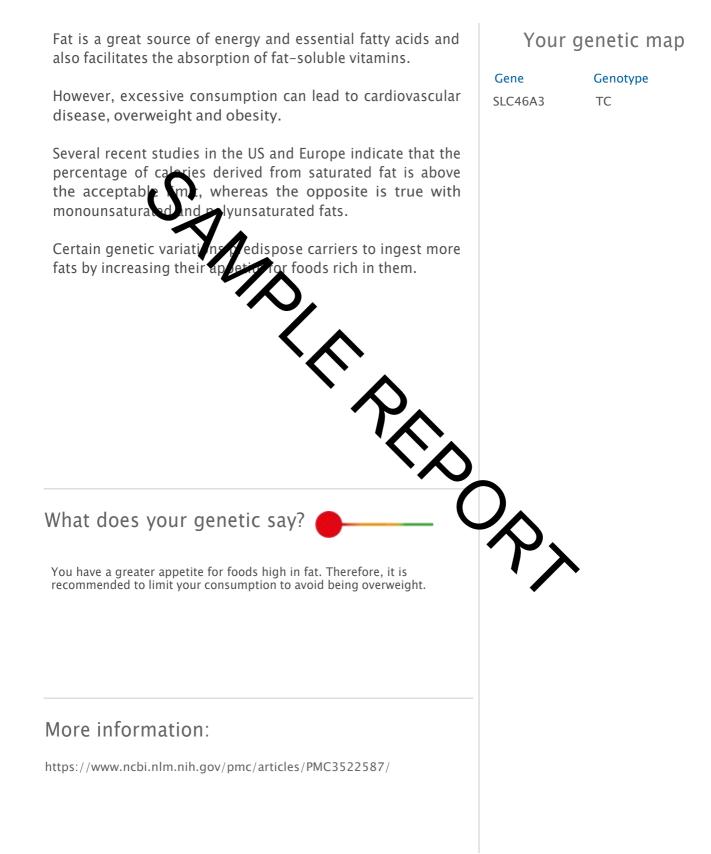
Your genetic map

This report is not valid for clinical or diagnostic us	se. Page 9 of 40

Omega 6 and Omega 3 Levels



Excessive fat consumption



Low vegetables consumption

Fruits and vegetables are the main source of vitamins and minerals in the diet. Its consumption reduces cardiovascular diseases, some cancers and helps us to maintain a healthy weight.

According to the Harvard Public Health School, the recommended daily allowance of fruits and vegetables is 50% of the total intake in a healthy diet. Many people consume less than this amount.

Three genetic variations in the TAS2R38 gene have been studied that predispose to a lower consumption of vegetables.

Your genetic map

Gene	Genotype
TAS2R38	CG
TAS2R38	AG
TAS2R38	ТС

What does your genetic say?

Women with this haplotype are predisposed to consume less vegetables because of a greater sensitivity to bitter taste. There are no data that affirm the same in men. Both women and men with this haplotype consume more sweet foods.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4235829/

Excessive intake of carbohydrates

Carbohydrates are the main source of energy for the brain and to maintain body weight. In several large-scale studies it has been observed that people with certain genetic variations have a greater appetite for carbohydrates, which can lead to excessive consumption.

The recommended carbohydrate intake is 45-65% of total daily calories. Starches and sugars are the main types of carbohydrate ereals and vegetables are sources of re found in fruits and natural juices, starches. Natur sigars while added sugars e present in soft drinks, bottled juices, sive craving for carbohydrates is desserts and sweets. unhealthy, so we rec d that your diet contain a balanced combination of c ates, proteins and fats, d added sugars. an adequate amount of fiber and

Your genetic map

Gene	Genotype
LOC10537049	GG
FGF21	AG
FGF21	AG

What does your genetic say?

You have a genotype associated with a greater appetite for carbohydrates. It is recommended to monitor and follow a balanced diet in terms of the proportion of macronutrients and control the recommended intake of carbohydrates.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3652928/

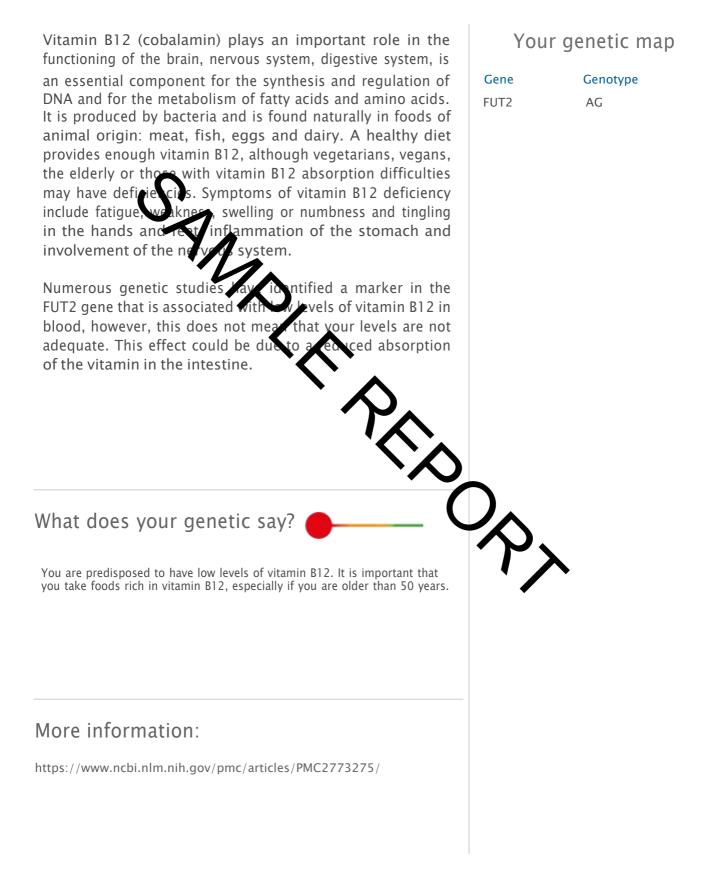
Vitamin B2

Vitamin B2 (riboflavin) is a central component of two molecules that serve as cofactor of various enzymes	Your g	jenetic map
involved in energy production, carbohydrate, fat and protein metabolism, iron absorption and normal cellular functioning.	Gene MTHFR	Genotype AG
Recent research shows that riboflavin plays an important role in cancer prevention and relieves migraine. Deficiency of this vitamin may cause weakness, sore throat, swelling of the tongue, crachine of the skin, hair loss, dermatitis and anemia. It can also affect vision (including blurred vision), burning, itching, eye pain or light-sensitive sight and fatigue. Excess riboflavin is excreted in the urine, so there is no risk of overdose.		
Certain genetic variants in the NEAFR gene predispose to high levels of homocysteine, a substance related to cardiovascular disease if it is at high levels, which can be corrected by vitamin B2.		
What does your genetic say?	么.	
You are predisposed to have normal levels of vitamin B2 and homocysteine.	マ	
More information:		
http://circ.ahajournals.org/content/113/1/74.long		

Vitamin B6

Vitamin B6 (pyridoxine) is involved in numerous essential Your genetic map processes, such as protein metabolism, proper functioning of the neurological system, production of hemoglobin, and Gene Genotype maintenance of normal levels of homocysteine. Even slight NBPF3 TT imbalances in vitamin B6 levels can lead to various symptoms: nerve inflammation, irritability, depression, dermatitis, cracked and sore lips, swollen mouth and tongue, and confusion. Vitamin B6 is found naturally in many foods like peas, whole grains, meat, eggs and fish. Most people get enough vitam 6 w en following a balanced diet and deficiency of this mamin is uncommon. of the NBPF3 gene has been The genetic marker rs4 associated in numerous stur with reduced levels of vitamin B6, possibly due to a q ator degradation of the vitamin in the blood. Studies show an association between vever, this does vitamin levels and different genot bes not mean that your levels are not add What does your genetic say? Your genotype is associated with normal levels of vitamin B6. More information: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2667971/

Vitamin B12



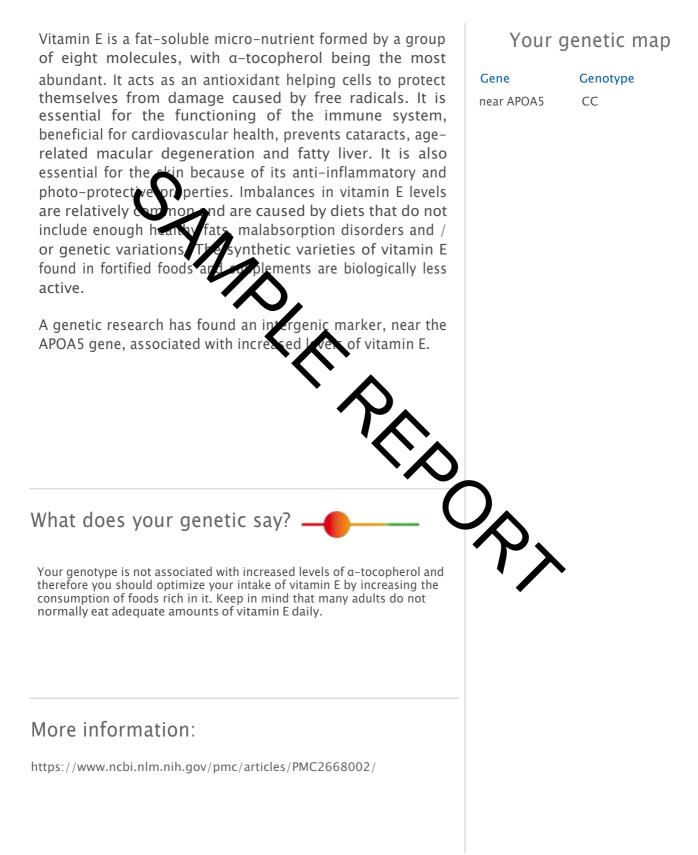
Vitamin C

Vitamin C (ascorbic acid) is a water-soluble compound, critical for many vital processes: it is essential for the functioning of the immune system, the production of red Ge blood cells, the maintenance of connective tissue and blood SL(vessels, bones, teeth and gums It is a potent antioxidant and participates in the absorption of iron. Some foods rich in vitamin C are lemons, oranges, red pepper, watermelon, strawberries and sitrus juices. While a severe deficiency causes scurvy, triations in vitamin C levels have been mariety of complex chronic diseases, associated with a vide s, type 2 diabetes or cancer. High such as arterioscle een associated with increased levels of vitamin C h vitality, longevity, a ced risk of death from cardiovascular disease or c Vitamin C is transported across the cell membrane via transport proteins, one of which is SLC2DAL A recent study of about 15,000 people has found that the T allele variant in SLC23A1 is associated with low circulating vitam levels. What does your genetic say? Your genotype is associated with normal levels of vitamin C. More information: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3605792/

Your genetic map

ene	Genotype
C23A1	CC

Vitamin E



Vitamin K

Vitamin K is a group of fat-soluble vitamins essential for promoting proper blood clotting and bone health. Numerous investigations indicate that an optimal intake of vitamin K contributes to a greater longevity. Vitamin K plays a protective role against various modern diseases such as arteriosclerosis, osteoporosis, diabetes and some types of cancer. Low levels of vitamin K increase the risk of bleeding, calcification of blood vessels and bone fracture. Vitamin K is often used to creat varicose veins, bruises, scars, burns, as they accelerate belling. Dietary sources richest in vitamin K include vegetable on and green leafy vegetables.

Genetic variations have been reported that contribute to imbalances in vitamin K levels in fact, some variants have been associated with increased levels while others have contributed to lower levels.

Your genetic map

Gene	Genotype
VKORC1	GG
VKORC1	CC

What does your genetic say?

Your genotype is associated with normal levels of vitamin K.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2761647/

Vitamin B9

Vitamin B9 (folic acid) is essential for vital processes like DNA Your genetic map synthesis, cell maintenance and repair, protein metabolism and normal brain development and functioning. It can lower Gene Genotype levels of homocysteine in the blood, a substance related to MTRR AG cardiovascular disease if it is at high levels. It is very **MTHFR** TT important in pregnant women and those who try to MTHFR AG conceive because it prevents defects in the neural tube and cardiovascular malformations in the fetus. Vitamin B9 is found in many foods like green leafy vegetables, peas, lentils, fruits and cer min B9 deficiencies are associated ls Vit with anemia, elevated vels of homocysteine, complications risk of cardiovascular disease, during pregnancy, inc increased risk of canc gnitive dysfunction in old age. Certain genotypes may predispos to low levels of Vitamin B9. SO, What does your genetic say? You have a high risk of high levels of homocysteine and low levels of vitamin B9, so you should monitor folic acid levels by increasing the consumption of foods rich in it or taking supplements to lower homocysteine levels. More information: http://www.atherosclerosis-journal.com/article/S0021-9150(00)00739 -5/fulltext

Vitamin D

Vitamin D is a fat-soluble vitamin important for the absorption and utilization of calcium, to maintain good bone and muscle health, for the normal functioning of the immune, endocrine and cardiovascular system. It is synthesized on the skin after exposure to sunlight: it is metabolized to its active form, which regulates hundreds of genes thanks to binding to the vitamin D receptor. There is an increase in cases of vitamin D deficiency in developed nle to photo-protection measures, as well countries due ma as environmen ions (contamination, geographical conc r, being over 50 years, family history location), dark sking and personal genetics. Exposure of osteoporosis, overw to sunlight is a determ ctor in a person's vitamin D levels, because there are few y sources of vitamin D, which include fatty fish, fish liv and milk or fortified cereals.

Numerous studies have identified genetic variations in many genes that contribute to vitamin D deficiency.

Your genetic map

Gene	Genotype
GC	AC
CYP2R1	GG
VDR	ТС
VDR	AA
VDR	AG

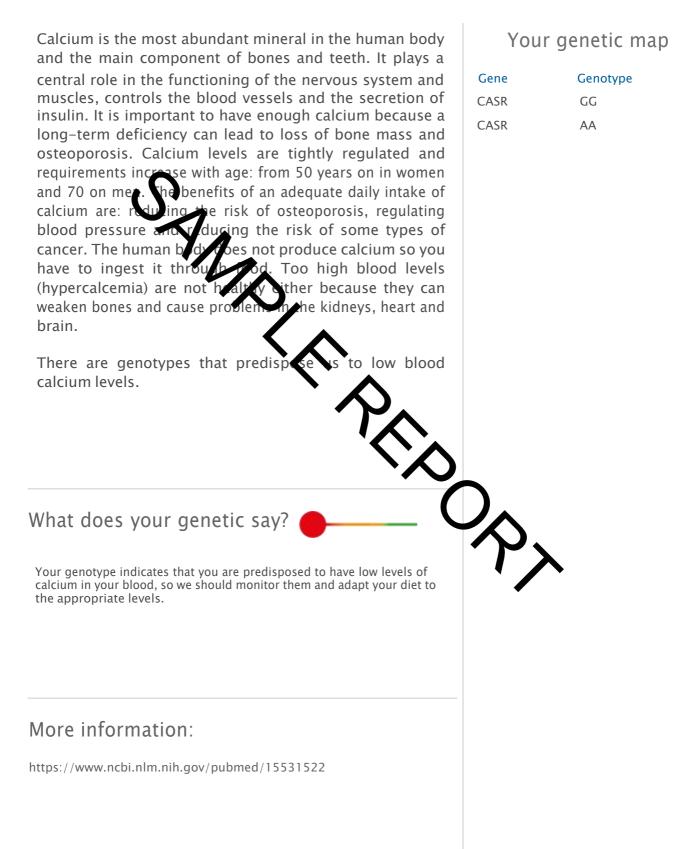
What does your genetic say?

You are predisposed to have low levels of vitamin D, but the binding and transport of this vitamin are normal, so we recommend that you increase the consumption of foods rich in vitamin D to achieve optimal levels.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3939005/

Calcium



Iron

Iron is an essential mineral for many functions of our body. It is part of many proteins, including oxygen carriers, hemoglobin (in red blood cells) and myoglobin (in muscle cells). It is also an essential component of antioxidant enzymes. The absorption, transport and storage of iron is closely regulated, because it is an essential and potentially toxic element.

Iron deficiency is the most common nutritional deficiency in the world. Symptoms include fatigue, rapid heartbeat, and palpitations. Children and women of childbearing age, vegetarians and vegars, are people at high risk of iron deficiency. Although it is an essential mineral, too much iron can be harmful to the body

Some genetic variations increase the absorption of the iron giving rise to an excess of this mineral, in spite of ingesting normal amounts. At least one in 70 people has a genetic variation of this type. Excess in n can had to fatigue, anorexia, dizziness, nausea, vomiting, neadache, weight loss and shortness of breath.

Your genetic map

Gene	Genotype
TMPRSS6	GG
TMPRSS6	AA
TF	GG
ABO	CC

What does your genetic say?

Your genotype indicates that you have an intermediate risk of having low iron levels. We recommend that you increase the consumption of foods rich in this mineral.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4003547/

Metabolic

Cholesterol LDL

Low-density lipoprotein (LDL) is the type of cholesterol that can be dangerous if there are high levels. LDL cholesterol can form plaques and build up in the walls of the arteries, which can narrow and make these arteries less flexible, increasing the risk of cardiovascular disease (heart attack, atherosclerosis, angina). Optimal levels of LDL cholesterol are less than 100 mg / dL. Near the optimum levels would be the range 100–120 mg / dL and medium-high levels of 130 to 159 mg / dl. Livels higher than 160 mg / dL are high and above 190 mg / d_ are very high.

Genetic results indicate the likelihood of having high LDL levels. If your risk is low, you have a probability less than the average population. However, you may have problems with LDL levels as a result of your airs and other factors. Processed foods rich in trans fat contribute to increased LDL levels. Genetic variants in various genes have been linked to LDL cholesterol levels.

Your genetic map

Gene	Genotype
ABCG8	CC
APOB	CC
CELSR2	GG
HMGCR	ТС
HNF1A-AS1	CC
TIMD4	CG
LDLR	GG
LOC10272496	СС
SUGP1	TT
PCSK9	ТС

What does your genetic say?

You have a lower than average chance of having high LDL cholesterol levels.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2881676/#SM

Metabolic

HDL cholesterol

High-density lipoprotein (HDL) is also known as good cholesterol, because high levels of HDL cholesterol appear to protect against heart disease, while low levels (below 40 mg / dL) increase the risk of coronary heart disease.

The main mechanism by which this occurs is the role of HDL by transporting excess cholesterol from the arteries to the liver. In men, typical levels of HDL are 40–50 mg / dL.

In women, the female bermones cause HDL levels of 50–60 mg / dL, however, after menopause there is a tendency to decrease these level. Foods that contain trans fats can lower HDL levels, which is provide level.

Variants in various genes have been associated with blood levels of HDL, which contribute currulatively.

Your genetic map

Gene	Genotype
ABCA1	CC
RAB11B	CC
CETP	CC
FADS1	TT
GALNT2	AG
HNF4A	CC
KCTD10	GG
NUTF2	GG
LIPC	ТС
LIPG	CC
LPL	AA
TTC39B	CC
ZPR1	CC
CETP	CC

What does your genetic say?

You have the same probability as the average population of having low HDL levels.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2881676/

Metabolic

Triglycerides

Triglycerides are chemically fats that build up in your body.

People with elevated triglycerides have an increased risk of cardiovascular disease and type 2 diabetes.

Having high triglyceride levels is often associated with conditions such as lack of exercise, excessive alcohol consumption, smeking, excessive consumption of refined carbohydrates and overweight. Normal levels are below 150 mg / dL, the mid-high range is between 150 and 199 mg / dL, above 200 mg / dL are considered high levels and more than 500 mg / dL are regimed.

Scientific studies have shown that variants in various genes that affect lipoprotein metabolic mear associated with triglyceride levels.

Your genetic map

Gene	Genotype
DOCK7	AC
APOB	AG
FADS1	TT
LPL	AA
BAZ1B	AA
CILP2	CC
TRIB1	AT
XKR6	AG
ZPR1	CC

What does your genetic say?

Your genetic profile indicates that you have the same risk as the general population of having high triglyceride levels.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2881676/

Bitter taste

Our taste perception plays a fundamental role in our preferences and eating habits, creating aversion or impulse towards certain foods and drinks. An adverse response to the bitter taste is instinctive and leads us to reject it. The perception of bitter taste is due to genetic variations in various receptors: when we ingest food, molecules such as phenylthiocarbamide interact with saliva and bind to taste receptors in the mouth, giving the sensation of bitter taste. People with certain genetic variants are sensitive to the bitter tables (such as broccoli, Brussels taste of bener vec sprouts, cabbage, ca blage) or drinks (such as coffee and black beer). There is nce that genes responsible for taste play an important human health. A new study has found that people who sensitive to bitter taste naturally are also more likely add salt to food, often exceeding the recommended amount. In addition, these people are more likely to avoid hea like green leafy vegetables and broccoli.

Your genetic map

Gene	Genotype
TAS2R38	CG
TAS2R38	AG
TAS2R38	ТС
TAS2R16	ТС

What does your genetic say?

Your genotype is not associated with a greater sensitivity to bitter taste, so you will not have problems when eating vegetables and other foods with this flavor.

More information:

http://ajcn.nutrition.org/content/81/5/1005.long

Pecking

Pecking can be a healthy or unhealthy behavior. Balanced foods containing unsaturated fats, proteins, fiber, and low-glycemic carbohydrates in small portions can help quench hunger and reduce total calorie intake, while junk food can have negative health effects.

Genetic markers associated with pecking include leptin receptor variants an essential hormone in the regulation of food intake. Some people feel hungry more often than others, which leads them to eat impulsively and to an increased risk of being overweight.

Variations in the LEPR (leafing eceptor) and FTO gene have been associated with a greater impulse to eat between hours.

This association has not been studied in mer. This section is only valid for women.

Your genetic map

Gene	Genotype
LEPR	GG
FTO	ТТ

What does your genetic say?

Your genotype indicates that you have a greater impulse to eat between hours. Choose low-calorie foods to limit your total caloric intake and avoid overweight.

More information:

https://www.ncbi.nlm.nih.gov/pubmed/17192493

Sweet

Sweet taste detection is mediated by taste receptors for this taste.

Culinary culture, habits and your age influence your food preferences, and your genetics also play an important role in this regard.

Genetic variants in various genes predispose to a greater preference for street taste.

Intake of healthy fools with a sweet taste (present naturally) can help satisfy this degree without necessarily increasing daily calories. However, reversive craving for processed sweet foods can harm our neutrin and increase our daily calorie intake.

Your genetic map

Gene	Genotype
TAS2R38	CG
TAS2R38	AG
TAS2R38	ТС
FGF21	AG

What does your genetic say?

You have a preference for carbohydrates but not too much. Avoid processed sweet foods to take care of your weight and your health.

More information:

http://ajcn.nutrition.org/content/81/5/1005.long

Caffeine

The enzyme cytochrome P4501A2 is primarily responsible Your genetic map for metabolizing caffeine. People depending on their genotype may be rapid metabolizers, or they may Gene Genotype metabolize caffeine more slowly. CYP1A2 AC People with normal metabolism take about 45 minutes to absorb 99% of caffeine. In humans, the half-life of caffeine is between 4 and 6 hours, which explains why the effect of drinking coffee 1 st that long. ons that modify the metabolism of However, genetic caffeine may create hy sitivity to this substance. These jounts of caffeine, even at people react to very amounts below 100 mg, ap xperience symptoms of overdose such as insomnia, nervo ness and increased heart rate. These people may take more han twice as much time to metabolize caffeine. What does your genetic say? Your genotype is associated with a slow metabolism of caffeine, so you may have overdose symptoms. Limit consumption of soft drinks with caffeine, coffee, black tea, etc. and choose low caffeine drinks. More information: http://www.geneticsmr.com/articles/6221

Predisposition to overweight

Obesity is caused by environmental factors and genetic factors. Approximately 40 to 70% of the predisposition to obesity is inherited. When someone reaches a body mass index (BMI) of 30 to 35 (obesity) or above 40 (morbid obesity), genetic factors with a strong effect are most likely involved. Your genetic predisposition to obesity is determined by your genotype in variants of the FTO and MC4R genes, which are associated with a higher BMI. The MC4R gene is exp ressed at the center of brain starvation and is involved in he rea ation of energy balance. The FTO gene is important in controlling eating habits and energy balance.

On the other hand, adiponent is a hormone produced by adipose cells. In the body causes the liver and muscles to consume energy from fat. high levels of adiponectin are beneficial for weight loss. If you have low levels, losing weight can be a good way to increase your adiponectin levels. A variant of the adiponectin gone (ADIPOQ) is associated with its levels.

Your genetic map

Gene	Genotype
FTO	TT
MC4R	TT
ADIPOQ	GG
ADRB2	GC
FTO	TT

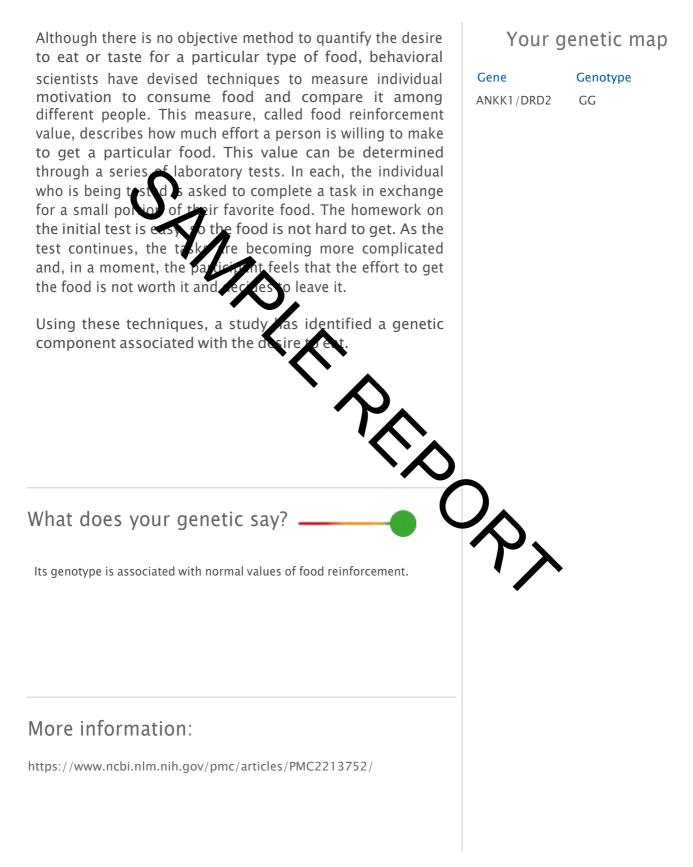
What does your genetic say?

You have the same risk of obesity as the rest of the population.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2695662/

Eating desire



Feeling of Satiety

Satiety refers to the physical sensation of feeling full when eating. When satiety is normal, the brain receives a signal that it has been eaten enough, thus reducing hunger.

People with genetic variations in some genes like FTO are more likely to eat more without feeling full and satisfied.

The FTO gene is an important factor that predisposes you to having a healthy or unhealthy weight. There is also a r unhealthy weight. There is also a having a health satiety and weight gain. People with correlation bet h lov low levels of satisty tend to eat more and consume foods prove satiety, you can increase rich in sugar and fat. the amount of dietary d eat balanced and healthy foods throughout the day les of high fiber foods include whole wheat bread, oats, , lentils, black beans, artichokes, raspberries and peas

Your genetic map

Gene	Genotype
FTO	TT

What does your genetic say?

Your genotype indicates that your feeling of satiety is normal.

More information:

http://ajcn.nutrition.org/content/90/5/1426.long

Emotional eating

Emotional intake, or loss of control over intake, describes Your genetic map the tendency to eat more than normal in response to stimuli such as the taste of food or situations that trigger overeating, Gene Genotype such as emotional stress, emotional states negative (anger, **TAS2R38** AG anxiety) or certain social situations. Some studies indicate that certain genetic variation in the TAS2R36 gene, responsible for the detection of bitter taste, makes some people more likely to eat compulsively under certain moods It seems that this hanism is mediated by the body, which regulates the endocannabinoid syst energy metabolism influen opetite. What does your genetic say? Your genotype is not associated with increased intake for emotional reasons. More information: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4179166/

Difficulty losing weight

Not all people lose weight at the same speed. Some lose light weight a week to start a low calorie diet, while others try to follow all types of diets without having great results.

There are studies that indicate that genetics is, in part, responsible for the difficulty of losing weight. Some studies have found that carriers of certain genetic variations have more difficulty losing weight and improving their metabolic status. People with genetic variants associated with obesity, abetes and emotional intake do not sensitivity to fa type 2 lose weight as easing other people despite following the same diet and perforn he same exercise. It is important to remember that gen a role in weight loss and maintenance. Some disea medication can also prevent weight loss. The most co men are hypothyroidism, c stress and depression. hormonal changes in women, chro

Your genetic map

Gene	Genotype
TCF7L2	CC
PPARG	CC
PPM1K	CC
MTNR1B	CC
CLOCK	GG

What does your genetic say?

Your difficulty in losing weight is intermediate. Follow a diet that is right for you and exercise to reduce your weight.

More information:

http://ajcn.nutrition.org/content/91/2/472

Effectiveness of the Mediterranean Diet

The benefits of the Mediterranean diet for health are well known. Numerous studies have associated the follow-up of a Mediterranean diet with a low risk of obesity. In a study of more than 11,000 participants, it has been observed that people who most followed this diet lost more weight and reduced their waist more than the rest. The Mediterranean diet is rich in vegetables, fish, fruit, legumes, nuts and olive oil, while meat and dairy products are minor components. Taking into account the interaction between diet and personal genetic medisposition to obesity we can know how effective this diet is no each person.

Genetic variations in various genes have been associated with greater weight loss by rollowing a Mediterranean diet, ie, people with certain genetic variations in genes like PPARG, among others, the Mediterranean diet helps them to lose fat.

Your genetic map

Gene	Genotype
PPARG	CC
TCF7L2	CC

What does your genetic say?

Your genotype does not benefit especially from this type of diet to lose weight.

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3951915/

50,

Effectiveness of the Low Fat Diet

According to the World Health Organization, in a balanced and healthy diet it is recommended to reduce total fat consumption to less than 30% of daily calorie intake. In addition, it is advisable to reduce the consumption of saturated fats to less than 10% of daily caloric intake and replace those fats with unsaturated fats (mono and polyunsaturated).

A low-fat dieprestricts fat intake to 20% while increasing protein intake from 22-25% to 40%, and decreases the proportion of carbohydrates (whose general recommendation is 55-51%).

Numerous large-scale studies on weight loss have found that people with variations in genee associated with fat sensitivity (such as FTO, PPARG, PPM1K) respond best to a low-fat diet.

Your genetic map

Gene	Genotype
FTO	TT
FTO	CC
PPM1K	CC
NEAR IRS1	TC
QPCTL	CC

What does your genetic say?

Your genotype indicates that you have a greater genetic predisposition to lose weight and stay at a healthy weight if you follow a low-fat diet. For this we recommend reducing the fat intake to 20% and increasing the proportion of proteins and carbohydrates. It is important to include healthy fats (mono and polyunsaturated).

More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4959911/

Response to Monounsaturated Fats

Fats are an important part of the diet and not all fats are bad. Your genetic map Monounsaturated fatty acids are considered healthy dietary fats, among them are omega-7 and omega-9. These fats are Gene Genotype known for their anti-inflammatory properties, for lowering PPARG CC triglycerides and lowering blood pressure. They are also healthy for the heart and beneficial for the skin, since they contribute to maintain the level of hydration of the epidermis. known for its many benefits, is rich The Mediterran resent in foods such as avocados, in monounsaturat olives, walnuts, olive Genetic variants in the e have been associated with a lower weight in women co apping more than 13% of daily calories in the form of monour saturated fats. This section only applies to women. う What does your genetic say? Your genotype is normal. Monounsaturated fats do not affect you differently. More information: https://www.ncbi.nlm.nih.gov/pubmed/14506127

Effectiveness of the Low Carbohydrate Diet



