



NutriGen™

Nutrigenomic Wellness Information

· Brief Results Report



Patient report

Disclaimer

METHODOLOGY AND LIMITATIONS: Testing for genetic variation/mutation on listed genes was performed using RealTime PCR with TaqMan® allele-specific probes on the QuantStudio 12K Flex. All genetic testing is performed by GX Sciences, 807 Las Cimas Pkwy, Suite 145, Austin TX, 78746. This test will not detect all the known alleles that result in altered or inactive tested genes. This test does not account for all individual variations in the individual tested. Test results do not rule out the possibility that this individual could be a carrier of other mutations/variations not detected by this gene mutation/variation panel. Rare mutations surrounding these alleles may also affect our detection of genetic variations. Thus, the interpretation is given as a probability. Therefore, this genetic information shall be interpreted in conjunction with other clinical findings and familial history. Patients should receive appropriate genetic counseling to explain the implications of these test results. The calculations and supplement recommendations presented in this report are not suitable for children under the age of 16. The analytical and performance characteristics of this laboratory developed test (LDT) were determined by GX Sciences' laboratory pursuant to Clinical Laboratory Improvement Amendments (CLIA) requirements. CLIA #: 45D2144988 Laboratory Director: James Jacobson, PhD **DISCLAIMER:** This test was developed, and its performance characteristics were determined by GX Sciences. It has not been cleared or approved by the FDA. The laboratory is regulated under CLIA and qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research. rsIDs for the alleles being tested were obtained from the dbSNP database. **DISCLAIMER:** Report contents and report recommendations are created based on the consultation, advice, and direction of Dr. Kendal Stewart, Medical Director for GX Sciences. Sole responsibility for the proper use of the information on the GX Sciences report rests with the user, or those professionals with whom the user may consult. Report contents and report recommendations are intended to be informational only. Report contents and report recommendations are not intended and should not be interpreted to make claims regarding the use, efficacy, or safety of products, formulas, and/or services listed herein. Only a doctor or other appropriately licensed health care professional, as a learned intermediary, can determine if a formula, product, or service described herein is appropriate for a specific patient. Sole responsibility for the proper use of the information on the GX Sciences report rests with the user, or those professionals with whom the user may consult. **DISCLAIMER:** These products are not approved by the Food and Drug Administration and are not intended to diagnose, treat, cure, or prevent disease. These recommendations are for informational purposes only and an individual is not required to use such products. These are recommendations only and do not replace the advisement of your healthcare practitioner. This test is NOT for diagnostic purposes. It may identify general health risks that are associated with genetic variations but does NOT indicate a propensity for or susceptibility to any illness, disease, impairment, or other disorders, whether physical or mental.



Patient name —●— William Wellness
Date of birth —●— 08-08-2000

Sample code —●— NUT16919AA
Doctor's name —●— Development Testing
Collection date —●— 02-10-2023
Reception date —●— 02-17-2023
Results date —●— 02-20-2023



How to read and use the NutriGen™ patient's report

1. Important genetic results

Summary of the categories where your genes have an important impact on your health and weight. For each category presented, we show you the final score for your own predisposition to have an impact on it and a brief description of what this means.

2. Recommended diet type

In case of following a weight loss intervention, we depict here our recommendation on the type of diet that will be optimal for you to succeed in your strategy. You will get a score showing the percentage of efficiency. The graph reads red for low efficiency and green for high efficiency.

3. Intolerance risk

Here you can find how high is your genetic risk of intolerance to specific products (lactose, alcohol, gluten, caffeine and fructose) that might shape your future diet. Legend reads from green (low risk of intolerance) to red (high risk of intolerance).

4. Vitamin and mineral deficiency risk

This section shows your predisposition to suffer from deficiency in vitamins and minerals, based in your genetic profile, allowing to elaborate a plan on your supplementation needs. Legend reads from green (low risk of intolerance) to red (high risk of intolerance).

5. The best food supplements

This section includes an overview of the recommended supplements, distributed in 3 phases to ensure the supply of all your nutritional needs in the future. Your doctor or health specialist will set the duration of each phase for you based on your clinical condition and treatment evolution.

- Phase 1 – Detox: Detoxification of parasites and pinworms, intestinal dysbiosis and cellular oxidative state.
- Phase 2 – Restructuring: Cell and tissue restructuring at all levels and covering of mineral, vitamin and trace element deficiencies according to the diagnose of patient's needs.
- Phase 3 – Supplementation: Supplementation and recovery of the optimal state at all levels: cellular, tissue, immune, bone-muscular, psycho-neuronal and endocrine.

6. Top 5 food categories

Made from your genetic and health/behavior data. List of the 5 best foods you can eat per category, to help you with a hands-on list of foods for you. Food is suggested from the results of the test performed by GX Sciences.

7. Distribution of daily intake of foods

In this graph you can visualize the optimal proportion of fats, proteins and healthy carbohydrates intake on a daily basis, based in your genetic profile.

8. Physical activity

This section shows the expected benefits of exercise in improving your cholesterol HDL levels and reducing body fat according to your genetic results. The graph reads from green (high benefits expected) to red (low benefits expected).

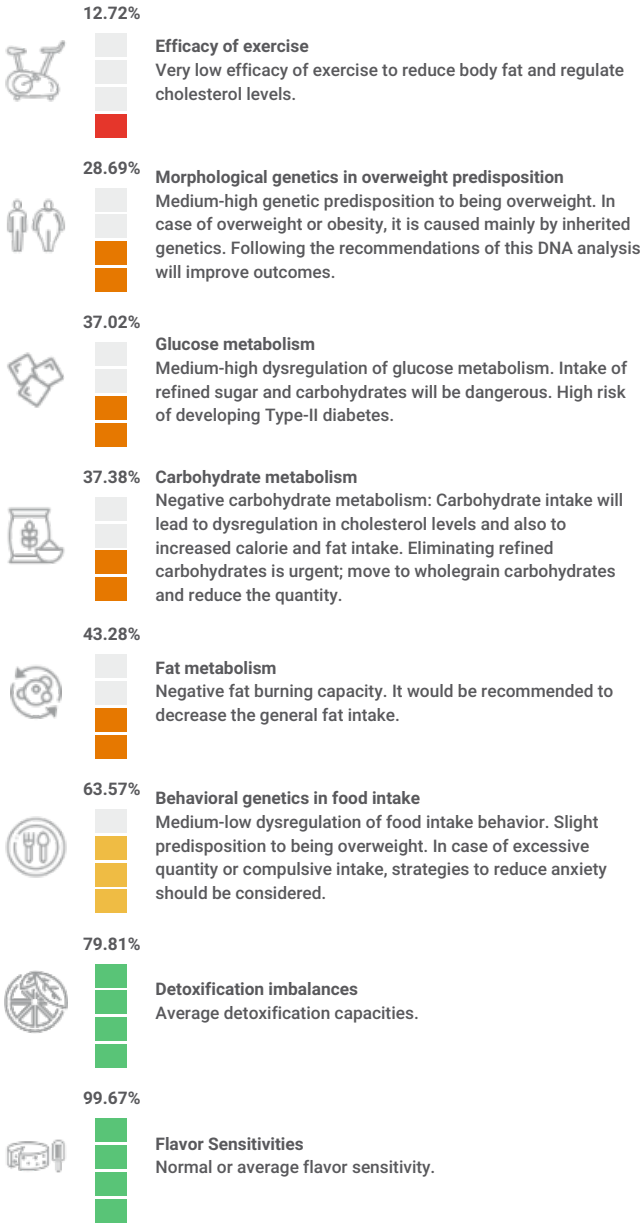
9. Recommended calories

Our recommendation for your daily calorie intake, inferred from your BMI and gender. This calculation is a suggestion, consultation with your health care provider is recommended.

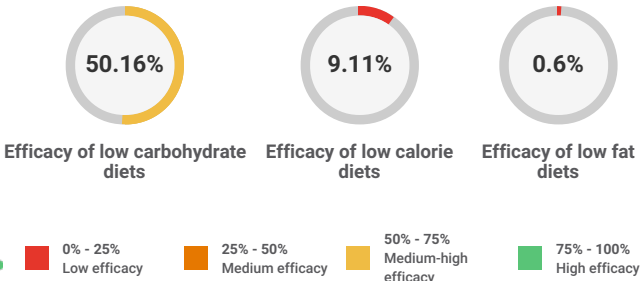
10. Complete genetic results

This table includes a complete description of all the analyzed SNPs within the NutriGen™ both at gene and SNP level, your genetic variant and the risk it confers to each category of our test.

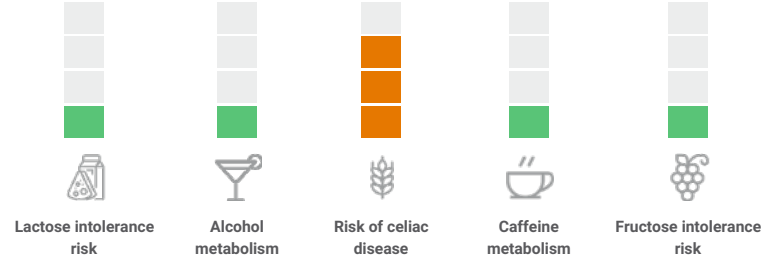
01 Important genetic results



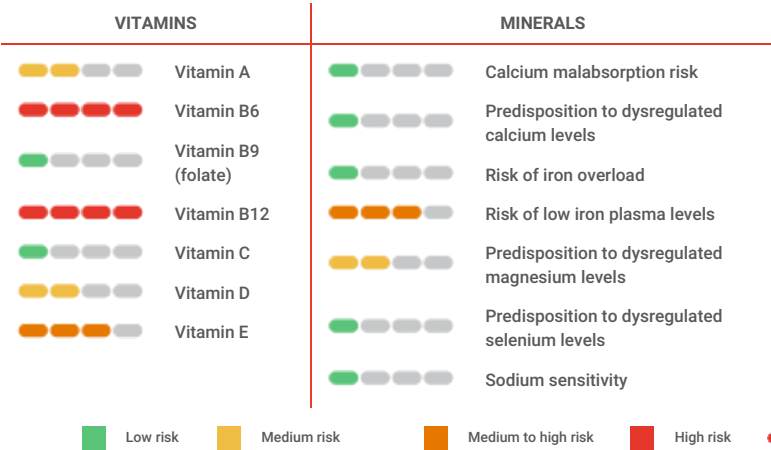
02 Matching Diet Type

50% - 75%
Medium-high efficacy75% - 100%
High efficacy

Intolerances risk 03



Vitamin and Mineral deficiency risk 04



Supplements

The best food supplements 05

- DETOX I DETOXIFICATION (OXIDATION) LIVER**

·Ubiquinol

·Taurine

·Vitamin B12 (Cianocobalamin)

·Magnesium

·Manganese

·Resveratrol

·Nicotinamide (niacinamide)

·Zinc gluconate
- DETOX II DETOXIFICATION (CONJUGATION) LIVER**

·Taurine

·Magnesium

·Alpha-Lipoic Acid (ALA)

·Vitamin B9 (Methylfolate)

·Vitamin D3 (Cholecalciferol)

·Acetylcysteine (N-Acetylcysteine)

·Glutathione (Reduced glutathione)

·Glutamine (levoglutamine)
- PHASE 2 (TRANSPORTATION/EXCRETION) KIDNEY OR GI TRACT**

·Magnesium

·Glutamine (levoglutamine)
- LONG TERM OPTIMIZATION PHASE**

·Ubiquinol

·Taurine

·Vitamin B12 (Cianocobalamin)

·Magnesium

·Biotin

·Manganese

·Resveratrol

·Nicotinamide (niacinamide)

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Vegetables

- Spinach, boiled
- Turnip greens
- Red pepper
- Chicory
- Bamboo shoots



Legumes and derivatives

- Lentil, boiled
- Pinto bean, steeped, boiled
- Broad bean, dried, steeped, boiled
- White bean, boiled
- Chickpea, canned



Fruits and derivatives

- Raspberry
- Black currant
- Cranberries, raw
- Chayote
- Strawberry



Cereals and derivatives

- Corn starch
- Barley
- Rye
- Barley flour
- Rye flour



Fish and derivatives

- Tuna
- Cod
- Halibut
- Monkfish, grilled
- Tuna, canned in water



Meats and derivatives

- Turkey, breast, without skin, grilled
- Liver, pork
- Ostrich, sirloin
- Turkey
- Beef, part n/s, roasted, with separable fat



Nuts and seeds

- Lupin
- Brazil nuts, kernel only
- Brazil nut
- Hazelnut
- Almond milk, sweetened



Eggs and derivatives

- Egg, duck
- Egg, turkey
- Egg, quail
- Egg, chicken, boiled
- Egg, chicken, white



Milk and derivatives

- Milk, skimmed, pasteurized
- Soy Yogurt
- Almond milk
- Milk, semi-skimmed, pasteurized
- Cottage cheese



Tubers and derivatives

- Red potato
- Potato, red
- Potato, russet
- Parsnip
- Arrowroot flour



Vegetables

- Pickled gherkin



Fruits and derivatives

- Fruit paste



Cereals and derivatives

- Cereal, GoLean Crunch
- Bar, dark chocolate mocha almond bar
- Cereal, Honey Vanilla Crunch organic gluten free
- Raisin pudding
- Gluten-free multigrain sandwich bread



Fish and derivatives

- Based on your results, there are no restricted foods in this category. To suit your needs, please consult a healthcare professional.



Meats and derivatives

- Based on your results, there are no restricted foods in this category. To suit your needs, please consult a healthcare professional.



Nuts and seeds

- Bar, Fruit, Nut & Veggie bar
- Bar, Almond
- Bar, Peanut Butter Dark Chocolate
- Cashew Milk
- Almond creamer



Milk and derivatives

- Almond milk yogurt, strawberry



Sugars and derivatives

- Based on your results, there are no restricted foods in this category. To suit your needs, please consult a healthcare professional.



Snacks

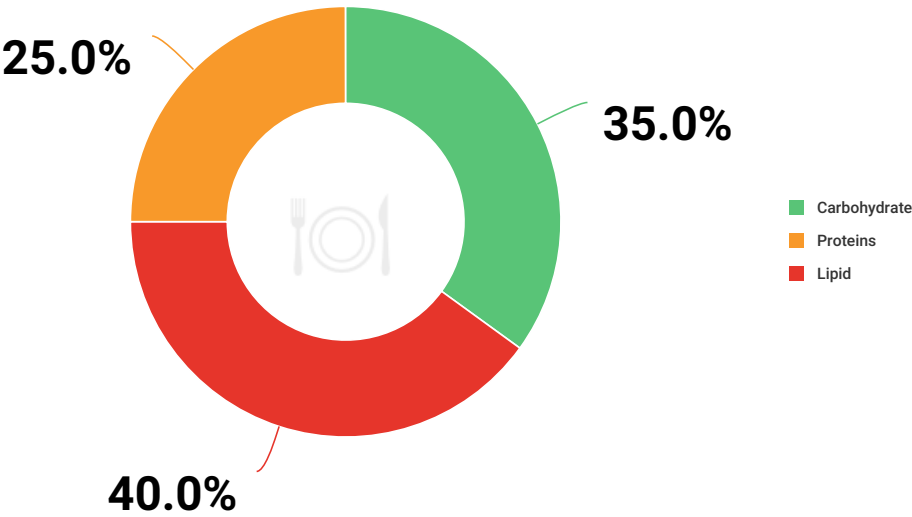
- Based on your results, there are no restricted foods in this category. To suit your needs, please consult a healthcare professional.



Non-alcoholic beverages

- Based on your results, there are no restricted foods in this category. To suit your needs, please consult a healthcare professional.

Daily food intake



ABOUT
From the results obtained in the analysis, your dietary habits and your general information, our genetic and nutritionist adviser team have determined a **personalized plan** with **nutritional and dietetic recommendations**.



Make the 3 main meals of the day and in their hours

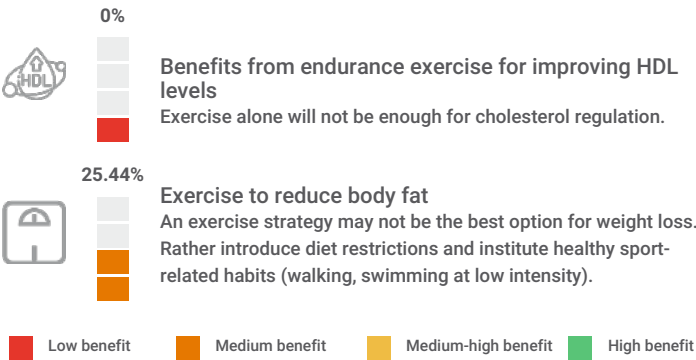


Make 2 small snacks of fruit and nuts according to recommendations: 11am - 5pm



Drink water 1.5 - 2 L / day before and between main meals

Physical activity



Calories



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Genetic Risk	Marker	Locus	Your Variant	Your Result
Genetic risk of overweight	MC4R-1	rs2229616	CC	<div></div>
	SH2B1-2	rs7498665	AA	<div></div>
	FTO-1	rs9939609	TT	<div></div>
	FTO-2	rs1121980	GG	<div></div>
	MC4R-2	rs17700633	GG	<div></div>
Risk of rebound weight gain	ADIPOQ	rs17300539	GG	<div></div>
Risk of increased BMI	MC4R-3	rs12970134	GA	<div></div>
	MC4R-4	rs17782313	CT	<div></div>
	SH2B1-1	rs4788102	GG	<div></div>
Basal metabolic rate (burn calories at rest)	FABP2	rs1799883	CT	<div></div>
	LEPR-4	rs2025804	GG	<div></div>
Weight loss capability during diet interventions	ACSL5	rs2419621	CC	<div></div>
Appetite and anxiety risk	COMT	rs4680	AG	<div></div>
	NMB	rs1051168	GG	<div></div>
	DRD2-1	rs1800497	AG	<div></div>
	MC4R-1	rs2229616	CC	<div></div>
	DRD2-2	rs6277	AA	<div></div>
Satiety: Feeling Full	FTO-1	rs9939609	TT	<div></div>
Benefits from endurance exercise for improving HDL levels	PPARD	rs2016520	TT	<div></div>
Exercise to reduce body fat	FTO-1	rs9939609	TT	<div></div>
	FTO-2	rs1121980	GG	<div></div>
	LIPC	rs1800588	CT	<div></div>
	LEP	rs7799039	AG	<div></div>

Genetic Risk	Marker	Locus	Your Variant	Your Result
Response to monounsaturated fats (MUFAs)	ADIPOQ	rs17300539	GG	<div></div>
Response to polyunsaturated fats (PUFAs)	PPAR-Y	rs1801282	CC	<div></div>
	FADS1	rs174547	CT	<div></div>
Response to fat intake to improve the HDL levels	LIPC	rs1800588	CT	<div></div>
Capability to digest starchy food	AMY1-AMY2	rs11577390	CC	<div></div>
	AMY1	rs4244372	TT	<div></div>
Refined carbohydrate sensitivity	FABP2	rs1799883	CT	<div></div>
Carbohydrates and HDL levels predisposition	KCTD10	rs10850219	GG	<div></div>
Carbohydrates and LDL levels	MMAB	rs2241201	GG	<div></div>
Predisposition to reduced HDL levels	APOA5	rs662799	AA	<div></div>
	CETP	rs5883	CC	<div></div>
Predisposition to increased levels of triglycerides	PPAR-Y	rs1801282	CC	<div></div>

Indications



Negative effect



Medium effect



Positive effect

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Genetic Risk	Marker	Locus	Your Variant	Your Result
Predisposition to increased oxidation of LDL	APOB-2	rs676210	AG	<div></div>
	CELSR2	rs12740374	GT	<div></div>
Risk of increased cholesterol LDL levels	HNF1A	rs2650000	AA	<div></div>
	LDLR	rs6511720	GG	<div></div>
	ABCG8	rs6544713	CC	<div></div>
Risk of unbalanced Triglycerides/HDL ratio	HMGCR	rs3846663	CT	<div></div>
Risk of increased glucose levels in plasma after fasting	PLIN1	rs2289487	CC	<div></div>
	GHSR	rs490683	GG	<div></div>
Risk of insulin resistance	PPAR-Y	rs1801282	CC	<div></div>
	ADIPOQ	rs17300539	GG	<div></div>
	TCF7L2-2	rs7903146	CC	<div></div>
	FTO-1	rs9939609	TT	<div></div>
	FTO-2	rs1121980	GG	<div></div>
Risk of Type-II diabetes	PPAR-Y	rs1801282	CC	<div></div>
	PLIN1	rs2289487	CC	<div></div>
	TCF7L2-2	rs7903146	CC	<div></div>
	FTO-1	rs9939609	TT	<div></div>
	MC4R-2	rs17700633	GG	<div></div>
	CDKN2A/B	rs10811661	CT	<div></div>
	KCNQ1	rs2237892	CC	<div></div>
	CDKN2A, CDKN2B	rs2383208	AG	<div></div>
	CDKAL1	rs7756992	AA	<div></div>
	TCF7L2-1	rs7901695	TT	<div></div>
Bitter taste sensitivity	TAS2R38-1	rs1726866	AG	<div></div>
	TAS2R38-2	rs713598	CG	<div></div>
Salt sensitivity	ACE	rs4343	AA	<div></div>

Genetic Risk	Marker	Locus	Your Variant	Your Result
Sweet flavor preference	SLC2A2	rs5400	GG	<div></div>
Antioxidant capability	GPX1	rs1050450	GG	<div></div>
	NQO1	rs1800566	AG	<div></div>
	COMT	rs4680	AG	<div></div>
	SOD2	rs4880	AG	<div></div>
	CYP1B1	rs1056836	CG	<div></div>
	CYP1A1-2	rs1048943	TT	<div></div>
	GSTP1	rs1695	AA	<div></div>
Calcium malabsorption risk	CYP2R1-1	rs10766197	GG	<div></div>
	GC	rs2282679	TT	<div></div>
Predisposition to dysregulated calcium levels	DGKD	rs1550532	CG	<div></div>
	CYP24A1	rs1570669	AG	<div></div>
	CASR-1	rs17251221	AA	<div></div>
	CASR-2	rs1801725	GG	<div></div>
	CARS	rs7481584	GG	<div></div>
	GCKR	rs780094	TT	<div></div>
Risk of iron overload	HFE	rs1800562	GG	<div></div>
Risk of low iron plasma levels	TF-1	rs3811647	AA	<div></div>
	TMPRSS6	rs4820268	AA	<div></div>
	TF-2	rs8177253	TT	<div></div>
Predisposition to dysregulated magnesium levels	CASR-1	rs17251221	AA	<div></div>
	TRPM6	rs11144134	TT	<div></div>
	SHROOM3	rs13146355	AG	<div></div>
	DCDC5	rs3925584	TT	<div></div>
	MUC1	rs4072037	TT	<div></div>
Predisposition to dysregulated selenium levels	AGA	rs1395479	AC	<div></div>
	SLC39A11	rs891684	GG	<div></div>
Sodium sensitivity	ACE	rs4343	AA	<div></div>

Indications



Negative effect



Medium effect



Positive effect

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GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Lactose intolerance risk	MCM6-1	rs182549	TT	<div></div>
	MCM6-2	rs4988235	AA	<div></div>
Alcohol metabolism	ALDH2	rs671	GG	<div></div>
Risk of celiac disease	HLA-7	rs2187668	CT	<div></div>
	HLA-8	rs4639334	GA	<div></div>
	HLA-2	rs2395182	TT	<div></div>
	HLA-4	rs4713586	AA	<div></div>
	HLA-5	rs7454108	TT	<div></div>
	HLA-6	rs7775228	TT	<div></div>
Caffeine metabolism	CYP1A1-1	rs2470893	TT	<div></div>
	CYP1A2	rs762551	AA	<div></div>
Fructose intolerance risk	ALDOB-1	rs1800546	CC	<div></div>
	ALDOB-2	rs76917243	GG	<div></div>

GENETIC RISK	MARKER	LOCUS	YOUR VARIANT	YOUR RESULT
Efficacy of low calorie diets	PPAR-Y	rs1801282	CC	<div></div>
	ADIPOQ	rs17300539	GG	<div></div>
	LEPR-1	rs1805134	TT	<div></div>
	ACSL5	rs2419621	CC	<div></div>
	ADRB2	rs1042714	CG	<div></div>
Efficacy of low carbohydrate diets	KCTD10	rs10850219	GG	<div></div>
	MMAB	rs2241201	GG	<div></div>
Efficacy of low fat diets	PPAR-Y	rs1801282	CC	<div></div>
	GHSR	rs490683	GG	<div></div>
	APOA2	rs5082	AA	<div></div>
	SH2B1-2	rs7498665	AA	<div></div>
	TCF7L2-2	rs7903146	CC	<div></div>
	FTO-1	rs9939609	TT	<div></div>

Indications



Negative effect



Medium effect



Positive effect

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Together
we create the future of personalized medicine.

