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Apolipoprotein B level (Richardson, 2020)

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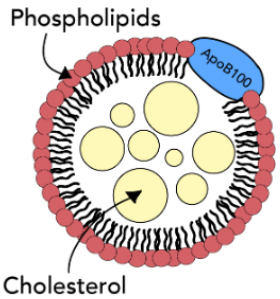
Heart | Blood



Apolipoprotein B helps form particles that carry LDL cholesterol in the blood.

STUDY SUMMARY

Identification of 255 genetic variants associated with the apolipoprotein B level in the blood and analysis of its contribution to the risk of coronary heart disease.

YOUR RESULT

STUDY DESCRIPTION

Coronary heart disease (CHD) is a condition that develops when the heart's arteries cannot supply enough oxygen to the heart muscle. Coronary heart disease is the leading cause of death in the United States. It occurs when *plaque* builds up in the heart's arteries and blocks the blood flow to the heart. Arterial *plaque* consists of multiple substances that circulate in the blood, in particular fats and *cholesterol*. Fats and *cholesterol* cannot travel around the bloodstream on their own and instead must be transported by proteins called "apolipoproteins". In particular, LDL *cholesterol*, the "bad" *cholesterol*, relies on transport by apolipoprotein B (apoB). As a result of this connection, elevated levels of apolipoprotein B are linked to elevated LDL *cholesterol* and an increased risk of coronary heart disease. This study examined genetic data of over 440,000 individuals of European descent to identify genomic regions associated with apolipoprotein B levels in the blood. The researchers identified 250 genetic variants, including 203 novel variants, associated with apolipoprotein B levels. Further analysis identified increased apolipoprotein B levels as the main contributor to an increased risk of coronary heart disease. In other words, elevated levels of fats and *cholesterol* alone will generally not lead to a significantly increased risk of coronary heart disease. However, the risk does increase when the levels of apolipoprotein B are increased as well.

DID YOU KNOW?

Many of the same dietary recommendations are made for lowering apolipoprotein B as for lowering LDL cholesterol. These include limiting the consumption of saturated fats, such as those found in fried foods and some dairy products, and instead turning to vegetables and fiber-rich foods.

YOUR DETAILED RESULTS

To calculate your genetic predisposition to higher Apolipoprotein B level we summed up the effects of genetic variants that were linked to higher Apolipoprotein B level in the study that this report is based on. These variants can be found in the table below. The variants highlighted in green have **positive effect sizes** and increase your genetic predisposition to higher Apolipoprotein B level. The variants highlighted in blue have **negative effects sizes** and decrease your genetic predisposition to higher Apolipoprotein B level. Variants that are not highlighted are not found in your genome and do not affect your genetic predisposition to higher Apolipoprotein B level. By adding up the effect sizes of the highlighted variants **we calculated your polygenic score for higher Apolipoprotein B level to be 1.53**. To determine whether your score is high or low, we compared it to the scores of 5,000 other Nebula Genomics users. We found that your polygenic score for higher Apolipoprotein B level is in the **100th percentile**. This means that it is higher than the polygenic scores 100% of people. We consider this to be a **very high genetic predisposition to higher Apolipoprotein B level**. However, please note that genetic predispositions do not account for important non-genetic factors like lifestyle. Furthermore, the genetics of most traits has not been fully understood yet and many associations between traits and genetic variants remain unknown. For additional explanations, click on the column titles in the table below and visit our Nebula Library tutorial.

VARIANT	YOUR GENOTYPE	EFFECT SIZE	VARIANT FREQUENCY	SIGNIFICANCE
rs531660643_G	G / G	0.46 (↑)	98%	1.80×10^{-905}
rs143020224_C	C / C	0.17 (↑)	88%	1.60×10^{-589}
rs113330691_G	G / G	0.28 (↑)	97%	2.00×10^{-553}
rs62119267_A	A / A	0.33 (↑)	98%	1.70×10^{-486}
rs11591147_G	G / G	0.35 (↑)	98%	2.70×10^{-418}
rs62122481_C	A / A	-0.08 (–)	62%	6.60×10^{-335}
rs6657811_A	A / A	0.13 (↑)	87%	3.80×10^{-374}
rs28601761_C	C / C	0.07 (↑)	58%	1.40×10^{-253}
rs12691088_G	G / G	-0.25 (↓)	98%	1.90×10^{-224}
rs12916_T	C / C	-0.05 (–)	60%	8.80×10^{-148}
rs964184_G	C / C	0.08 (–)	13%	8.70×10^{-138}
rs1260326_T	T / C	0.05 (↑)	40%	2.50×10^{-121}
rs8107974_A	A / A	0.09 (↑)	92%	2.80×10^{-121}
rs60403635_T	T / T	0.11 (↑)	96%	8.70×10^{-112}
rs118039278_G NEW	G / G	-0.09 (↓)	92%	3.00×10^{-111}
rs4299376_G	T / T	0.05 (–)	32%	1.30×10^{-104}
rs3764261_C NEW	C / A	0.05 (↑)	68%	4.60×10^{-103}
rs2738447_A	A / C	-0.04 (↓)	41%	1.60×10^{-96}
rs376972689_T	T / T	-0.21 (↓)	99%	4.60×10^{-95}
rs174564_A NEW	A / A	0.05 (↑)	65%	6.10×10^{-95}
rs148601586_C	C / C	-0.18 (↓)	99%	6.10×10^{-89}
rs472495_G	T / T	-0.04 (–)	35%	9.80×10^{-79}
rs34042070_C NEW	C / C	-0.05 (↓)	81%	1.40×10^{-78}
rs76186504_C	C / C	0.12 (↑)	97%	4.30×10^{-69}
rs73045960_A	A / A	0.14 (↑)	98%	9.80×10^{-69}
rs556107_C NEW	C / T	-0.04 (↓)	48%	7.90×10^{-67}
rs77542162_A NEW	A / A	-0.12 (↓)	98%	9.50×10^{-61}
rs6073958_T NEW	T / T	-0.04 (↓)	80%	1.40×10^{-59}
rs1883711_G	G / G	-0.09 (↓)	97%	2.80×10^{-54}
rs12208357_C NEW	C / C	-0.06 (↓)	93%	5.10×10^{-54}
rs115478735_A	A / T	-0.04 (↓)	82%	2.70×10^{-53}
rs112771035_C NEW	C / C	-0.06 (↓)	93%	1.20×10^{-49}
rs516316_G NEW	C / C	-0.03 (–)	49%	4.10×10^{-49}
rs6874202_T NEW	T / T	-0.03 (↓)	37%	1.20×10^{-47}
rs6689611_G	G / G	0.13 (↑)	99%	6.70×10^{-44}

rs36043200_G	G / A	0.03 (↑)	48%	2.40×10^{-43}
rs79220007_T	T / C	0.05 (↑)	92%	2.90×10^{-43}
rs2618566_G	G / T	0.03 (↑)	34%	3.00×10^{-43}
rs12239737_T	T / T	0.03 (↑)	66%	3.10×10^{-43}
rs4470903_C	C / C	-0.03 (↓)	79%	2.40×10^{-42}
rs61775180_C	C / T	0.03 (↑)	58%	3.50×10^{-42}
rs9297994_G	G / A	0.03 (↑)	34%	7.00×10^{-40}
rs13702_T	T / C	0.03 (↑)	71%	1.30×10^{-38}
rs72848251_G	G / A	-0.03 (↓)	80%	1.30×10^{-38}
rs114165349_G	G / G	-0.09 (↓)	98%	1.40×10^{-38}
rs138692741_C	C / C	-0.07 (↓)	96%	3.10×10^{-36}
rs6709904_A	A / G	0.04 (↑)	89%	1.40×10^{-34}
rs55714927_C	C / C	0.03 (↑)	81%	1.00×10^{-33}
rs116734477_C	C / C	0.06 (↑)	96%	2.00×10^{-33}
rs11206517_T	T / T	-0.07 (↓)	97%	2.20×10^{-32}
rs2073547_A	A / A	-0.03 (↓)	82%	1.10×10^{-31}
rs17050272_G	G / A	0.02 (↑)	59%	5.30×10^{-31}
rs2068888_G	G / A	0.02 (↑)	55%	6.60×10^{-31}
rs117733303_A	A / A	-0.09 (↓)	98%	4.00×10^{-29}
rs188247550_C	C / C	0.10 (↑)	99%	1.90×10^{-28}
rs10127775_A	T / T	0.02 (-)	39%	6.10×10^{-28}
rs2238162_C	C / C	0.02 (↑)	48%	2.50×10^{-27}
rs35081008_C	C / T	0.03 (↑)	85%	6.30×10^{-27}
rs1801689_A	A / A	-0.06 (↓)	97%	9.40×10^{-27}
rs13108218_A	A / G	0.02 (↑)	39%	2.30×10^{-26}
rs597808_A	A / G	-0.02 (↓)	48%	2.20×10^{-25}
rs11601507_C	C / C	-0.04 (↓)	93%	8.90×10^{-25}
rs6093446_G	G / A	-0.02 (↓)	71%	6.60×10^{-24}
rs7746081_G	G / G	0.02 (↑)	70%	8.30×10^{-24}
rs11621792_C	C / T	-0.02 (↓)	55%	1.60×10^{-23}
rs150474434_G	G / G	0.03 (↑)	90%	3.30×10^{-23}
rs6602909_T	T / T	-0.02 (↓)	67%	2.80×10^{-22}
rs72888603_A	A / A	0.02 (↑)	57%	4.10×10^{-22}
rs1169292_C	C / T	-0.02 (↓)	69%	5.10×10^{-22}
rs4935356_T	T / A	-0.02 (↓)	76%	7.90×10^{-22}
rs261290_T	C / C	0.02 (-)	35%	1.10×10^{-21}
rs7734476_G	A / A	-0.02 (-)	45%	1.70×10^{-21}
rs9471975_T	C / C	0.02 (-)	42%	2.60×10^{-21}
rs7012637_G	G / A	-0.02 (↓)	53%	2.70×10^{-21}
rs115692156_A	A / A	0.11 (↑)	99%	6.20×10^{-21}
rs9884390_T	T / T	-0.02 (↓)	77%	1.00×10^{-20}
rs10832963_T	T / G	-0.02 (↓)	26%	2.60×10^{-20}
rs34767236_G	G / G	-0.02 (↓)	63%	2.70×10^{-20}
rs4722551_T	T / C	-0.03 (↓)	84%	1.40×10^{-19}
rs72631343_C	C / C	0.03 (↑)	87%	2.50×10^{-19}
rs76079263_G	G / G	0.03 (↑)	91%	4.30×10^{-19}
rs113177823_G	G / G	0.04 (↑)	95%	9.20×10^{-19}
rs4671050_G	G / T	0.02 (↑)	68%	1.10×10^{-18}
rs7569317_T	T / T	-0.02 (↓)	47%	2.40×10^{-18}
rs9834932_A	A / A	0.03 (↑)	91%	2.70×10^{-18}
rs704_G	A / A	-0.02 (-)	52%	3.50×10^{-18}
rs4782568_C	C / G	0.02 (↑)	55%	4.50×10^{-18}
rs1265097_C	C / A	-0.03 (↓)	92%	7.30×10^{-18}
rs9491697_A	A / A	-0.02 (↓)	54%	8.70×10^{-18}
rs2335708_A	A / G	-0.02 (↓)	68%	1.10×10^{-17}
rs115704890_T	T / T	-0.03 (↓)	92%	1.20×10^{-17}
rs12603885_G	A / A	-0.02 (-)	30%	1.20×10^{-17}
rs6907508_A	A / A	0.03 (↑)	88%	1.90×10^{-17}
rs113743631_G	G / G	-0.06 (↓)	98%	3.20×10^{-17}

rs55831924_C	C / C	-0.02 (↓)	64%	5.10×10^{-17}
rs6475606_C	C / C	0.02 (↑)	52%	6.10×10^{-17}
rs11057397_C	C / C	0.02 (↑)	66%	1.10×10^{-16}
rs3936511_A	A / A	-0.02 (↓)	81%	1.20×10^{-16}
rs3823379_T	T / C	-0.02 (↓)	49%	1.40×10^{-16}
rs13247874_C	C / C	0.02 (↑)	80%	1.90×10^{-16}
rs1888488_C	C / T	-0.02 (↓)	43%	1.90×10^{-16}
rs2737263_G	G / G	0.02 (↑)	72%	7.70×10^{-16}
rs2160994_T	T / T	-0.02 (↓)	35%	1.20×10^{-15}
rs62120573_T	T / T	-0.03 (↓)	93%	1.90×10^{-15}
rs112758337_G	G / G	0.02 (↑)	81%	2.60×10^{-15}
rs9496567_G	G / G	0.02 (↑)	76%	2.60×10^{-15}
rs2925677_C	C / C	0.02 (↑)	79%	4.40×10^{-15}
rs10448340_T	T / T	0.02 (↑)	68%	1.50×10^{-14}
rs13389219_C	C / C	0.02 (↑)	61%	1.60×10^{-14}
rs12990177_A	* / T	-0.02 (–)	48%	3.30×10^{-14}
rs13076933_T	T / T	0.02 (↑)	74%	3.70×10^{-14}
rs224424_A	G / A	0.02 (↑)	79%	4.20×10^{-14}
rs6050464_C	C / A	-0.02 (↓)	51%	5.90×10^{-14}
rs1003533_C	C / T	0.02 (↑)	81%	6.30×10^{-14}
rs473224_T	T / G	0.02 (↑)	15%	7.40×10^{-14}
rs233721_T	T / A	-0.02 (↓)	36%	1.10×10^{-13}
rs73075609_C	C / C	-0.05 (↓)	97%	1.10×10^{-13}
rs2122982_G	G / A	0.02 (↑)	76%	1.20×10^{-13}
rs9298506_A	A / A	-0.02 (↓)	79%	1.30×10^{-13}
rs3096644_G	G / T	0.02 (↑)	68%	1.40×10^{-13}
rs2807854_T	T / C	-0.02 (↓)	33%	1.50×10^{-13}
rs146534110_G	G / G	-0.07 (↓)	99%	2.10×10^{-13}
rs72823020_T	T / T	0.02 (↑)	87%	2.20×10^{-13}
rs145730801_T	T / T	-0.04 (↓)	96%	3.90×10^{-13}
rs17036085_A	A / A	0.07 (↑)	99%	3.90×10^{-13}
rs3932048_C	C / G	-0.02 (↓)	68%	3.90×10^{-13}
rs9616822_G	G / A	-0.02 (↓)	65%	4.30×10^{-13}
rs112403212_C	C / C	-0.02 (↓)	86%	4.50×10^{-13}
rs12246352_A	A / A	-0.02 (↓)	90%	5.30×10^{-13}
rs59328596_G	G / G	0.02 (↑)	85%	5.30×10^{-13}
rs117139027_G	G / G	0.06 (↑)	98%	5.60×10^{-13}
rs1458038_C	T / T	0.02 (–)	71%	5.60×10^{-13}
rs6090101_G	G / G	-0.02 (↓)	80%	6.50×10^{-13}
rs1358980_C	C / C	-0.02 (↓)	52%	7.40×10^{-13}
rs2021092_T	T / T	0.02 (↑)	81%	7.50×10^{-13}
rs12046278_T	T / T	0.02 (↑)	65%	8.90×10^{-13}
rs12078100_C	G / G	-0.02 (–)	38%	9.80×10^{-13}
rs55804343_C	C / C	-0.02 (↓)	70%	1.70×10^{-12}
rs3822855_G	G / T	-0.01 (↓)	60%	1.90×10^{-12}
rs71311871_A	A / A	0.03 (↑)	92%	2.50×10^{-12}
rs141469619_A	A / A	-0.08 (↓)	99%	2.60×10^{-12}
rs10953298_C	C / T	0.02 (↑)	76%	2.80×10^{-12}
rs10896125_G	G / G	0.02 (↑)	76%	3.00×10^{-12}
rs7249565_G	G / G	-0.01 (↓)	59%	3.10×10^{-12}
rs11568318_C	C / C	-0.03 (↓)	93%	4.10×10^{-12}
rs581080_G	G / C	-0.02 (↓)	18%	6.60×10^{-12}
rs12720796_A	A / A	-0.05 (↓)	98%	8.10×10^{-12}
rs9832727_C	C / G	0.01 (↑)	66%	9.00×10^{-12}
rs11693526_T	T / T	-0.03 (↓)	93%	9.10×10^{-12}
rs1800961_C	C / C	0.04 (↑)	97%	1.00×10^{-11}
rs150820726_A	A / A	-0.07 (↓)	99%	1.30×10^{-11}
rs12054451_T	T / T	-0.02 (↓)	74%	2.10×10^{-11}
rs59104589_C	C / C	0.01 (↑)	64%	2.70×10^{-11}

rs112426331_G	G / G	0.03 (↑)	96%	3.40×10^{-11}
rs12197047_G	G / A	-0.01 (↓)	33%	4.30×10^{-11}
rs656521_G	G / A	-0.01 (↓)	49%	4.30×10^{-11}
rs12948394_C	T / T	0.01 (–)	52%	5.80×10^{-11}
rs13230111_A	A / A	0.01 (↑)	51%	5.80×10^{-11}
rs56113850_T	C / C	-0.01 (–)	42%	6.00×10^{-11}
rs719148_G	A / A	0.02 (–)	22%	6.50×10^{-11}
rs7603427_C	C / T	-0.01 (↓)	47%	6.60×10^{-11}
rs17447211_C	C / G	-0.01 (↓)	67%	7.10×10^{-11}
rs10432370_C	C / C	-0.01 (↓)	57%	7.80×10^{-11}
rs74454529_G	G / G	-0.03 (↓)	94%	9.90×10^{-11}
rs1556562_G	G / T	-0.02 (↓)	21%	1.00×10^{-10}
rs58148580_C	C / C	-0.02 (↓)	89%	1.00×10^{-10}
rs2063643_A	A / A	0.02 (↑)	82%	1.20×10^{-10}
rs4771674_A	G / G	-0.01 (–)	38%	1.40×10^{-10}
rs560238897_T	T / T	0.01 (↑)	49%	1.40×10^{-10}
rs55921103_G	T / T	-0.01 (–)	35%	1.60×10^{-10}
rs10858093_C	C / C	-0.04 (↓)	97%	1.70×10^{-10}
rs79931565_A	A / A	-0.03 (↓)	93%	1.70×10^{-10}
rs13394970_T	T / G	-0.01 (↓)	39%	1.80×10^{-10}
rs28406917_C	T / T	-0.01 (–)	57%	2.00×10^{-10}
rs7601412_A	G / G	0.02 (–)	14%	2.30×10^{-10}
rs969075_T	T / C	-0.01 (↓)	34%	2.50×10^{-10}
rs142385484_C	C / T	0.02 (↑)	85%	2.70×10^{-10}
rs17476364_T	T / T	0.02 (↑)	89%	2.80×10^{-10}
rs139915535_A	A / A	-0.05 (↓)	98%	3.00×10^{-10}
rs2705619_G	G / A	-0.01 (↓)	29%	3.10×10^{-10}
rs1495741_G	G / A	0.02 (↑)	22%	3.50×10^{-10}
rs7108486_T	T / T	0.04 (↑)	98%	3.50×10^{-10}
rs4485425_A	A / G	-0.01 (↓)	29%	3.60×10^{-10}
rs278981_T	T / C	-0.01 (↓)	24%	4.30×10^{-10}
rs62120394_G	G / G	-0.01 (↓)	71%	4.40×10^{-10}
rs72733928_A	A / A	-0.03 (↓)	94%	4.90×10^{-10}
rs1561139_G	T / T	0.01 (–)	58%	5.30×10^{-10}
rs3780181_A	A / A	0.03 (↑)	93%	5.40×10^{-10}
rs2058122_T	C / C	-0.02 (–)	14%	5.50×10^{-10}
rs145725232_G	G / G	0.05 (↑)	98%	5.90×10^{-10}
rs377181093_A	A / A	-0.02 (↓)	91%	5.90×10^{-10}
rs576573069_T	T / T	-0.01 (↓)	33%	6.50×10^{-10}
rs10851478_T	T / C	0.01 (↑)	58%	7.10×10^{-10}
rs13379043_T	T / T	0.01 (↑)	72%	7.50×10^{-10}
rs1229984_T	NA	-0.04 (–)	3%	7.60×10^{-10}
rs12471768_T	C / C	-0.01 (–)	30%	8.80×10^{-10}
rs2124034_T	T / T	-0.01 (↓)	71%	9.10×10^{-10}
rs41434449_A	A / T	-0.02 (↓)	87%	1.40×10^{-9}
rs80276949_G	G / G	-0.04 (↓)	98%	1.80×10^{-9}
rs6667939_C	T / T	-0.01 (–)	28%	1.90×10^{-9}
rs1250258_C	T / T	-0.01 (–)	26%	2.30×10^{-9}
rs72749770_C	C / C	-0.01 (↓)	55%	2.30×10^{-9}
rs188608977_G	G / G	-0.06 (↓)	99%	2.40×10^{-9}
rs112987086_G	T / T	-0.01 (–)	28%	2.50×10^{-9}
rs60856912_G	G / G	-0.02 (↓)	84%	2.80×10^{-9}
rs11014154_G	G / G	-0.01 (↓)	72%	3.10×10^{-9}
rs3821838_T	C / C	-0.03 (–)	5%	3.10×10^{-9}
rs12948283_G	G / G	-0.01 (↓)	70%	3.70×10^{-9}
rs45537841_C	C / C	0.02 (↑)	82%	4.00×10^{-9}
rs73025516_A	A / A	0.03 (↑)	96%	4.00×10^{-9}
rs17457613_G	G / G	0.04 (↑)	98%	4.50×10^{-9}
rs13283282_C	C / C	0.02 (↑)	85%	4.70×10^{-9}

rs913499_A	A / G	0.01 (↑)	49%	4.90×10^{-9}
rs6426328_G	G / T	-0.01 (↓)	51%	5.50×10^{-9}
rs71562509_G	T / T	0.01 (–)	41%	7.10×10^{-9}
rs12970_G	G / G	0.03 (↑)	94%	7.60×10^{-9}
rs2137234_T	T / T	-0.02 (↓)	80%	7.80×10^{-9}
rs6560499_G	A / A	0.01 (–)	42%	7.80×10^{-9}
rs114802991_G	G / G	-0.07 (↓)	99%	7.90×10^{-9}
rs138354_T	T / C	0.01 (↑)	47%	8.30×10^{-9}
rs72663045_T	T / T	-0.04 (↓)	98%	8.30×10^{-9}
rs145090930_T	T / T	0.03 (↑)	94%	8.80×10^{-9}
rs2761311_C	C / T	-0.01 (↓)	43%	9.50×10^{-9}
rs61754230_C	C / C	-0.04 (↓)	98%	9.90×10^{-9}
rs10876450_T	T / C	-0.02 (↓)	83%	1.00×10^{-8}
rs147539187_C	C / C	0.02 (↑)	93%	1.00×10^{-8}
rs10161436_A	A / A	0.02 (↑)	89%	1.20×10^{-8}
rs7776054_A	A / A	0.01 (↑)	74%	1.20×10^{-8}
rs7601153_C	C / C	0.01 (↑)	60%	1.30×10^{-8}
rs35882350_A	A / A	-0.01 (↓)	74%	1.40×10^{-8}
rs62049427_G	G / G	-0.02 (↓)	94%	1.60×10^{-8}
rs7260871_A	A / A	0.03 (↑)	96%	1.60×10^{-8}
rs2517473_C	C / C	-0.02 (↓)	92%	2.00×10^{-8}
rs12443634_A	C / C	0.01 (–)	29%	2.10×10^{-8}
rs56264193_G	G / C	0.01 (↑)	65%	2.10×10^{-8}
rs77312476_T	T / T	-0.02 (↓)	86%	2.10×10^{-8}
rs1862719_A	A / G	0.01 (↑)	25%	2.20×10^{-8}
rs189052_A	A / A	0.02 (↑)	10%	2.30×10^{-8}
rs399970_T	T / G	-0.01 (↓)	75%	2.40×10^{-8}
rs546240_C	T / T	0.01 (–)	38%	2.70×10^{-8}
rs34931250_C	C / C	-0.02 (↓)	94%	2.80×10^{-8}
rs10962680_C	T / T	0.01 (–)	26%	3.20×10^{-8}
rs2256814_G	G / G	-0.01 (↓)	80%	3.30×10^{-8}
rs142787485_A	A / A	0.03 (↑)	96%	3.40×10^{-8}
rs28768427_G	G / A	-0.01 (↓)	48%	3.40×10^{-8}
rs115739682_T	T / T	0.01 (↑)	81%	3.90×10^{-8}
rs190104_G	G / G	-0.02 (↓)	86%	4.00×10^{-8}
rs112220485_T	T / T	-0.02 (↓)	91%	4.10×10^{-8}
rs67038483_C	C / C	-0.03 (↓)	96%	4.10×10^{-8}
rs72638977_A	A / A	0.03 (↑)	97%	4.10×10^{-8}
rs56402930_A	A / G	0.02 (↑)	9%	4.40×10^{-8}
rs6714750_A	A / A	-0.01 (↓)	80%	4.40×10^{-8}
rs4965894_T	T / T	0.01 (↑)	60%	4.50×10^{-8}
rs55739424_G	G / G	-0.03 (↓)	97%	5.00×10^{-8}

N/A indicates variants that could not be imputed using the 1000 genomes project datasets and variants that have a frequency of < 5%. Your genome was sequenced at 30x/100x coverage and is not imputed. However, to calculate percentiles, we need to compare your data with other users imputed data. To make the data comparable, we need to exclude some of the variants from your data.