1      **Supplementary Table S1** STROBE-MR checklist of recommended items to address in reports of Mendelian randomization studies[1] [2]

| Item No. | Section | Checklist item | Page No. | Relevant text from manuscript |
|---|---|---|---|---|
| 1 | **TITLE and ABSTRACT** | Indicate Mendelian randomization (MR) as the study's design in the title and/or the abstract if that is a main purpose of the study | 1-2 | Dissecting the causal association between body fat mass and obsessive-compulsive disorder: A two-sample Mendelian randomization study |
| | **INTRODUCTION** | | | |
| 2 | **Background** | Explain the scientific background and rationale for the reported study. What is the exposure? Is a potential causal relationship between exposure and outcome plausible? Justify why MR is a helpful method to address the study question | 3 | As the genetic variants are randomly allocated at conception, MR analysis could overcome the underlying reverse causation and confounding, similar to a randomized controlled trial. |
| 3 | **Objectives** | State specific objectives clearly, including pre-specified causal hypotheses (if any). State that MR is a method that, under specific assumptions, intends to estimate causal effects | 3 | In this study, we utilized the two-sample MR approach, based on the publicly available summary statistics, to infer the causal association between genetically predicted FM and OCD, providing new insights into preventing psychiatric disorders. |
| | **METHODS** | | | |
| 4 | **Study design and data sources** | Present key elements of the study design early in the article. Consider including a table listing sources of data for all phases of the study. For each data source contributing to the analysis, describe the following: | 4 | We used summary statistics from publicly available genome-wide association studies (GWASs) to conduct two-sample MR analyses. |
| | | a) Setting: Describe the study design and the underlying population, if possible. Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection, when available. | 4 | We searched for and retrieved the summary statistics data of the exposure and outcome variables from the IEU Open GWAS project and |

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| | | | | | the FinnGen consortium. |
| | | b) | Participants: Give the eligibility criteria, and the sources and methods of selection of participants. Report the sample size, and whether any power or sample size calculations were carried out prior to the main analysis | 4 | We chose the most recent GWAS with the largest sample size for the primary analysis, and the other for the sensitivity analysis (Table 1). |
| | | c) | Describe measurement, quality control and selection of genetic variants | 5 | SNPs with genome-wide significant ($P < 5×10^{-8}$) associations with exposure phenotypes were selected. The variants were subsequently pruned by linkage disequilibrium ($r^2 < 0.001$ within a 10,000 k-base-pair windows). The F-statistic was applied to evaluate the instrument strength. SNPs with an F-statistic greater than 10 were considered strong instruments. |
| | | d) | For each exposure, outcome, and other relevant variables, describe methods of assessment and diagnostic criteria for diseases | 5 | In the FinnGen consortium, OCD was diagnosed according to the International Statistical Classification of Diseases and Related Health Problems 9th and 10th Revision. All cases from the PGC consortium met the Diagnostic and Statistical Manual of Mental Disorders 4th edition. |
| | | e) | Provide details of ethics committee approval and participant informed consent, if relevant | 5 | We used publicly available summary data where no additional ethical committee approval or participant informed consent was required. |
| 5 | **Assumptions** | | Explicitly state the three core IV assumptions for the main analysis (relevance, independence and exclusion restriction) as well assumptions for any additional or sensitivity analysis | 4 | MR analysis relies on the following three assumptions: (1) Instrumental variables (IVs) are strongly correlated with exposure; (2) The IVs were not related to the confounding factors affecting the "exposure-outcome" pathway; (3) The IVs affect outcomes solely through the exposure variable. |

| 6 | **Statistical methods: main analysis** | | Describe statistical methods and statistics used | 6 | Given its superior statistical power, IVW estimates were regarded as the primary results, with the other four methods serving as sensitivity analyses. The Wald method and delta approach were utilized to estimate the causal ratio and confidence interval (CI) of the single IV, respectively. The effect of each SNP is weighted by the inverse of the variance of the ratio estimator. |
|---|---|---|---|---|---|
| | | a) | Describe how quantitative variables were handled in the analyses (i.e., scale, units, model) | NA | NA |
| | | b) | Describe how genetic variants were handled in the analyses and, if applicable, how their weights were selected | 6 | Given its superior statistical power, IVW estimates were regarded as the primary results, with the other four methods serving as sensitivity analyses. The Wald method and delta approach were utilized to estimate the causal ratio and confidence interval (CI) of the single IV, respectively. The effect of each SNP is weighted by the inverse of the variance of the ratio estimator. |
| | | c) | Describe the MR estimator (e.g. two-stage least squares, Wald ratio) and related statistics. Detail the included covariates and, in case of two-sample MR, whether the same covariate set was used for adjustment in the two samples | 6 | The Wald method and delta approach were utilized to estimate the causal ratio and confidence interval (CI) of the single IV respectively. |
| | | d) | Explain how missing data were addressed | NA | NA |
| | | e) | If applicable, indicate how multiple testing was addressed | 6 | The results of the IVW method were corrected by false discovery rate (FDR) and Bonferroni method. The link between the exposure variables and OCD |

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| | | | | with a P value < 0.05/3 = 0.0167 (Bonferroni correction for multiple testing) is considered significant. |
|---|---|---|---|---|
| 7 | **Assessment of assumptions** | Describe any methods or prior knowledge used to assess the assumptions or justify their validity | 5 | SNPs with genome-wide significant ($P < 5\times10^{-8}$) associations with exposure phenotypes were selected. The variants were subsequently pruned by linkage disequilibrium ($r^2 < 0.001$ within a 10,000 k-base-pair windows). The F-statistic was applied to evaluate the instrument strength. SNPs with an F-statistic greater than 10 were considered strong instruments. |
| 8 | **Sensitivity analyses and additional analyses** | Describe any sensitivity analyses or additional analyses performed (e.g. comparison of effect estimates from different approaches, independent replication, bias analytic techniques, validation of instruments, simulations) | 6 | Heterogeneity tests, pleiotropy tests, leave-one-out tests, and sensitivity analyses were performed to evaluate the robustness of the findings. The Cochran's Q test was used to determine the heterogeneity between the causal estimates of different genetic variants. The MR-PRESSO test and the slope of the MR-Egger regression were applied to monitor the potential horizontal pleiotropy effect. The MR Steiger test of directionality was performed to validate the direction of the association between exposure and OCD. The MR radial method detected outliers which were then excluded from the sensitivity analysis. In addition, the summary statistics of different data sources were used to examine the robustness of the primary results. |
| 9 | **Software and pre-registration** | | | |

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| | | a) | Name statistical software and package(s), including version and settings used | 6 | All analyses were performed using R software (version 4.2.3). "TwoSampleMR" (Hemani et al., 2018), "MR-PRESSO" (Verbanck et al., 2018), "RadialMR" (Bowden et al., 2018), "ggplot2" and other software packages were utilized for statistical analysis and visualization. |
| | | b) | State whether the study protocol and details were pre-registered (as well as when and where) | NA | NA |

**RESULTS**

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| 10 | **Descriptive data** | | | | |
| | | a) | Report the numbers of individuals at each stage of included studies and reasons for exclusion. Consider use of a flow diagram | 4 | Our study obtained summary statistics from GWASs conducted by various international consortiums, with all participants of European ancestry. The available summary statistics were for both sexes combined. We chose the most recent GWAS with the largest sample size for the primary analysis, and the other for the sensitivity analysis (Table 1). |
| | | b) | Report summary statistics for phenotypic exposure(s), outcome(s), and other relevant variables (e.g. means, SDs, proportions) | 4 | We chose the most recent GWAS with the largest sample size for the primary analysis, and the other for the sensitivity analysis (Table 1). |
| | | c) | If the data sources include meta-analyses of previous studies, provide the assessments of heterogeneity across these studies | 7 | We conducted a series of sensitivity analyses to assess the heterogeneity and pleiotropy (Table S5). |
| | | d) | For two-sample MR: | 5 | There was no overlap between the participants of |

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| | | | i. Provide justification of the similarity of the genetic variant-exposure associations between the exposure and outcome samples | | exposure and that of outcome studies. |
| | | | ii. Provide information on the number of individuals who overlap between the exposure and outcome studies | | |
| 11 | **Main results** | | | | |
| | | a) | Report the associations between genetic variant and exposure, and between genetic variant and outcome, preferably on an interpretable scale | 6 | The results of the IVW method showed that genetically prediction FM decrease was associated with an increased risk of OCD. The results of MR Egger showed that genetically predicted FFM decrease was significantly associated with a higher risk of OCD |
| | | b) | Report MR estimates of the relationship between exposure and outcome, and the measures of uncertainty from the MR analysis, on an interpretable scale, such as odds ratio or relative risk per SD difference | 6-7 | The results of the IVW method showed that genetically prediction FM decrease was associated with an increased risk of OCD [odds ratio (OR) = 0.680, 95% CI: 0.528 ~ 0.875, $P$ = 0.003] (Figure 2). Broadly consistent risk estimates were obtained using the weighted median approach (OR = 0.633, 95% CI: 0.438 ~ 0.915, $P$ = 0.015), and the directionally same estimates were observed for other methods. The causal effect of FM on OCD risk was consistent after Bonferroni correction and FDR correction (Table 2). |
| | | c) | If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period | NA | NA |
| | | d) | Consider plots to visualize results (e.g. forest plot, scatterplot of associations between genetic variants and outcome versus between genetic variants and | 4-7 | Figures 1-3 |

exposure)

| 12 | **Assessment of assumptions** | | | | |
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| | | a) | Report the assessment of the validity of the assumptions | 6 | The F-statistic of each SNP was greater than 10 (Table S2-S4). |
| | | b) | Report any additional statistics (e.g., assessments of heterogeneity across genetic variants, such as $I^2$, Q statistic or E-value) | 7 | We conducted a series of sensitivity analyses to assess the heterogeneity and pleiotropy (Table S5). |
| 13 | **Sensitivity analyses and additional analyses** | | | | |
| | | a) | Report any sensitivity analyses to assess the robustness of the main results to violations of the assumptions | 6-7 | Broadly consistent risk estimates were obtained using the weighted median approach (OR = 0.633, 95% CI: 0.438 ~ 0.915, *P* = 0.015), and the directionally same estimates were observed for other methods. |
| | | b) | Report results from other sensitivity analyses or additional analyses | 8 | We replaced the exposure and outcome dataset to verify whether the results of primary analyses were robust (Table S8). The results showed that the causal relationship between genetically predicted FM and OCD remained robust. |
| | | c) | Report any assessment of direction of causal relationship (e.g., bidirectional MR) | 8 | We conducted bidirectional MR by exchanging the exposure and outcome variables of the primary analyses. SNPs with genome-wide significant (P <1×10-5) associations with OCD were selected since there were no SNPs with P values smaller |

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| | | | | | than 5×10-8. Genetically predicted increases in OCD risk were significantly associated with decreased FM (IVW: OR = 0.992, 95% CI: 0.986 ~ 0.998, P = 0.010) (Supplementary Table S10). |
| | | d) | When relevant, report and compare with estimates from non-MR analyses | 8-9 | Few studies have investigated the effect of FM on OCD, and most of them found that people with OCD were associated with lower BMI. For instance, a cohort study from the Dutch Multicenter Clinical Consortiums found that the purer the OCD phenotype, the stronger the protection against overweight and obesity. |
| | | e) | Consider additional plots to visualize results (e.g., leave-one-out analyses) | 18-19 | Supplementary Figures 2-4 |
| | **DISCUSSION** | | | | |
| 14 | **Key results** | | Summarize key results with reference to study objectives | 8 | For the first time, we found a negative causal relationship between genetically predicted FM and OCD. |
| 15 | **Limitations** | | Discuss limitations of the study, taking into account the validity of the IV assumptions, other sources of potential bias, and imprecision. Discuss both direction and magnitude of any potential bias and any efforts to address them | 11 | However, limitations should also be noted. |
| 16 | **Interpretation** | | | | |
| | | a) | Meaning: Give a cautious overall interpretation of results in the context of their limitations and in comparison with other studies | 11 | Based on the publicly available GWAS database, a negative causality of genetically predicted FM and OCD was identified using the two-sample MR approach. |
| | | b) | Mechanism: Discuss underlying biological mechanisms that could drive a potential | 9,10 | A multifactorial etiology of OCD is assumed in |

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| | | | causal relationship between the investigated exposure and the outcome, and whether the gene-environment equivalence assumption is reasonable. Use causal language carefully, clarifying that IV estimates may provide causal effects only under certain assumptions | | which biological, psychological, and external factors interact. Moreover, research has shown that glutamate metabolism disorders are associated with the development of OCD. |
| | | c) | Clinical relevance: Discuss whether the results have clinical or public policy relevance, and to what extent they inform effect sizes of possible interventions | 11 | This finding is informative for future research on the causal relationship between obesity and mental illness and provides new possibilities for targeted prevention strategies. The prevention or treatment of psychiatric disorders should include not only the control of BMI, but also fat distribution and body composition. |
| 17 | **Generalizability** | | Discuss the generalizability of the study results (a) to other populations, (b) across other exposure periods/timings, and (c) across other levels of exposure | 11 | First, the generalization of our findings is limited, given that only European ancestry population GWAS data was used. |
| | **OTHER INFORMATION** | | | | |
| 18 | **Funding** | | Describe sources of funding and the role of funders in the present study and, if applicable, sources of funding for the databases and original study or studies on which the present study is based | 12 | This work was supported by the Yanzhao Gold Talent Project of Hebei Province (NO.HJZD202506). |
| 19 | **Data and data sharing** | | Provide the data used to perform all analyses or report where and how the data can be accessed, and reference these sources in the article. Provide the statistical code needed to reproduce the results in the article, or report whether the code is publicly accessible and if so, where | 12 | The summary statistical data used in the paper are all available from the IEU Open GWAS project (https://gwas.mrcieu.ac.uk/) and the FinnGen consortium (https://www.finngen.fi/en/access_results). |
| 20 | **Conflicts of Interest** | | All authors should declare all potential conflicts of interest | 12 | All authors declare that they have no competing interests. |

3       1. Skrivankova VW, Richmond RC, Woolf BAR, Yarmolinsky J, Davies NM, Swanson SA, et al. Strengthening the Reporting of Observational Studies in

4       Epidemiology using Mendelian Randomization (STROBE-MR) Statement. JAMA. 2021.

5       2. Skrivankova VW, Richmond RC, Woolf BAR, Davies NM, Swanson SA, VanderWeele TJ, et al. Strengthening the Reporting of Observational Studies in

6       Epidemiology using Mendelian Randomisation (STROBE-MR): Explanation and Elaboration. BMJ. 2021;375:n2233.

7    **Supplementary Table S2** Effect estimate of the association between genetically predicted body fat and risk of obsessive-compulsive disorder

| Variant rsID | Chr | Position | Effect allele | Other allele | Association with fat mass | | | Association with OCD | | | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Beta | SE | P | Beta | SE | P | |
| rs10050620 | 5 | 63927239 | T | C | -0.0123008 | 0.00208579 | 3.70E-09 | 0.0335248 | 0.0366792 | 0.360716 | 35 |
| rs10071662 | 5 | 133840929 | T | C | -0.0138893 | 0.00228563 | 1.20E-09 | 0.0304402 | 0.0427118 | 0.476038 | 37 |
| rs1008982 | 10 | 131445731 | C | T | -0.0111456 | 0.00202513 | 3.70E-08 | 0.0465553 | 0.0354631 | 0.189256 | 30 |
| rs10100245 | 8 | 77226919 | A | G | 0.0194145 | 0.00197253 | 7.40E-23 | -0.00281059 | 0.0348938 | 0.935802 | 97 |
| rs10116857 | 9 | 16595649 | A | C | -0.0248846 | 0.00406359 | 9.10E-10 | -0.0478182 | 0.0830757 | 0.564886 | 38 |
| rs10132514 | 14 | 104012189 | T | C | -0.0123581 | 0.00221021 | 2.30E-08 | 0.050485 | 0.0425322 | 0.235234 | 31 |
| rs1013293 | 1 | 62570321 | A | G | -0.0199173 | 0.00197478 | 6.40E-24 | 0.00913725 | 0.0364541 | 0.802084 | 102 |
| rs1013402 | 11 | 27712381 | G | A | 0.0285045 | 0.00209435 | 3.50E-42 | -0.0158653 | 0.0368933 | 0.667172 | 185 |
| rs10141106 | 14 | 59348019 | G | A | 0.0136413 | 0.00214721 | 2.10E-10 | -0.0139735 | 0.0369361 | 0.705196 | 40 |
| rs10146997 | 14 | 79945162 | G | A | 0.0266959 | 0.00235343 | 8.00E-30 | 0.0123912 | 0.0405868 | 0.760137 | 129 |
| rs10187101 | 2 | 50742227 | T | C | -0.013662 | 0.00202539 | 1.50E-11 | 0.0233534 | 0.0352665 | 0.507845 | 45 |
| rs1019315 | 12 | 97594620 | T | C | -0.0119366 | 0.00207306 | 8.50E-09 | -0.0140279 | 0.0356819 | 0.694218 | 33 |
| rs10209821 | 2 | 228980358 | T | C | 0.0154229 | 0.00205116 | 5.50E-14 | -0.0262551 | 0.0377036 | 0.486207 | 57 |
| rs10248298 | 7 | 12196381 | A | C | 0.015535 | 0.0020257 | 1.70E-14 | 0.060477 | 0.035647 | 0.0897821 | 59 |

| SNP | Chr | Position | A1 | A2 | Beta | SE | P | Beta | SE | P | N |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs1031881 | 6 | 124921140 | G | T | 0.0148707 | 0.00260229 | 1.10E-08 | 0.00900285 | 0.0638891 | 0.887938 | 33 |
| rs10421787 | 19 | 32951222 | T | C | -0.0132744 | 0.00235732 | 1.80E-08 | -0.00382686 | 0.0406831 | 0.925057 | 32 |
| rs10423928 | 19 | 46182304 | A | T | -0.0316258 | 0.00246865 | 1.40E-37 | -0.0536731 | 0.0402977 | 0.182887 | 164 |
| rs10478110 | 5 | 112445734 | C | A | 0.0132856 | 0.00197516 | 1.70E-11 | 0.0502494 | 0.0349101 | 0.150038 | 45 |
| rs10499014 | 6 | 97947755 | G | C | -0.013859 | 0.00221512 | 3.90E-10 | -0.0214524 | 0.0397548 | 0.58946 | 39 |
| rs10505836 | 12 | 19288508 | C | A | 0.0165815 | 0.00283692 | 5.10E-09 | 0.0824167 | 0.0509898 | 0.106022 | 34 |
| rs10510025 | 10 | 118650996 | T | C | 0.0179707 | 0.00227166 | 2.60E-15 | 0.0571945 | 0.0402106 | 0.154918 | 63 |
| rs1056441 | 20 | 62370349 | C | T | 0.0154069 | 0.00209085 | 1.70E-13 | 0.0556341 | 0.0398639 | 0.162834 | 54 |
| rs1062557 | 18 | 56887507 | A | C | 0.014152 | 0.00223443 | 2.40E-10 | -0.0212342 | 0.0364423 | 0.56011 | 40 |
| rs10756798 | 9 | 16739763 | T | C | -0.0156105 | 0.00203905 | 1.90E-14 | -0.00355797 | 0.0367824 | 0.92294 | 59 |
| rs10820852 | 9 | 94186973 | A | C | -0.0139299 | 0.00218808 | 1.90E-10 | 0.00559935 | 0.0432107 | 0.896897 | 41 |
| rs10854853 | 22 | 48874412 | T | G | 0.0130604 | 0.001966 | 3.10E-11 | -0.0449645 | 0.0351356 | 0.200635 | 44 |
| rs10878349 | 12 | 66327632 | G | A | -0.0146733 | 0.00195894 | 6.90E-14 | 0.0954044 | 0.034647 | 0.00589427 | 56 |
| rs10915840 | 1 | 225668524 | A | G | -0.0147572 | 0.00219669 | 1.80E-11 | 0.0118703 | 0.0416154 | 0.775463 | 45 |
| rs10927006 | 1 | 243557659 | C | T | -0.0158463 | 0.00278232 | 1.20E-08 | -0.0256437 | 0.0474558 | 0.588943 | 32 |

| rs10938398 | 4 | 45186139 | A | G | 0.0275414 | 0.00197323 | 2.80E-44 | -0.0231791 | 0.0349417 | 0.507096 | 195 |
| rs10950290 | 7 | 71439590 | T | A | -0.0157831 | 0.00222295 | 1.20E-12 | 0.0426102 | 0.0376476 | 0.25771 | 50 |
| rs10959841 | 9 | 11469190 | C | T | -0.0112897 | 0.00201081 | 2.00E-08 | 0.0378656 | 0.036612 | 0.301024 | 32 |
| rs10999456 | 10 | 72413827 | T | C | 0.0157879 | 0.00221376 | 9.90E-13 | 0.0854082 | 0.0391264 | 0.0290449 | 51 |
| rs11012732 | 10 | 21830104 | G | A | 0.0210978 | 0.00207656 | 3.00E-24 | 0.0339619 | 0.0375172 | 0.365341 | 103 |
| rs11030016 | 11 | 27487992 | T | C | 0.0176637 | 0.00223158 | 2.50E-15 | -0.0182476 | 0.0373571 | 0.625222 | 63 |
| rs1106761 | 8 | 142619234 | A | G | 0.014834 | 0.00203434 | 3.10E-13 | -0.0782161 | 0.0364421 | 0.0318478 | 53 |
| rs11075256 | 16 | 15187912 | C | G | -0.0129567 | 0.0021449 | 1.50E-09 | -0.0798729 | 0.0392785 | 0.042002 | 36 |
| rs11075263 | 16 | 9367090 | T | C | -0.0132558 | 0.00242396 | 4.50E-08 | 0.047783 | 0.03927 | 0.223687 | 30 |
| rs11099020 | 4 | 130724902 | T | C | -0.013819 | 0.00203762 | 1.20E-11 | 0.011861 | 0.0356683 | 0.739484 | 46 |
| rs11105842 | 12 | 91243910 | A | G | -0.0140812 | 0.00203605 | 4.60E-12 | -0.0199765 | 0.0362828 | 0.581922 | 48 |
| rs11129446 | 3 | 31410801 | A | T | -0.0133068 | 0.00217018 | 8.70E-10 | -0.00814685 | 0.0373192 | 0.827194 | 38 |
| rs11135450 | 5 | 95554016 | G | A | 0.0146571 | 0.00208292 | 2.00E-12 | -0.00497544 | 0.0352454 | 0.887739 | 50 |
| rs11150745 | 17 | 78757626 | G | A | -0.0195604 | 0.00210446 | 1.50E-20 | 0.0110028 | 0.03887 | 0.777125 | 86 |
| rs11165643 | 1 | 96924097 | T | C | 0.0199108 | 0.00197995 | 8.60E-24 | -0.0479929 | 0.0357043 | 0.17889 | 101 |
| rs111942358 | 2 | 242568017 | C | G | 0.0155506 | 0.00271607 | 1.00E-08 | 0.0117894 | 0.0445225 | 0.791167 | 33 |

| rs11205303 | 1 | 149906413 | C | T | 0.0225892 | 0.00198498 | 5.30E-30 | 0.0116429 | 0.0377875 | 0.757994 | 130 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs11245344 | 10 | 126418782 | T | C | 0.0125829 | 0.00197795 | 2.00E-10 | -0.031607 | 0.035562 | 0.374117 | 40 |
| rs113079574 | 4 | 147354089 | T | C | -0.0138687 | 0.00248678 | 2.40E-08 | 0.0216483 | 0.042837 | 0.613301 | 31 |
| rs113866544 | 17 | 46270606 | C | T | 0.0347508 | 0.0038815 | 3.50E-19 | -0.0117741 | 0.056744 | 0.835624 | 80 |
| rs1147346 | 9 | 132213552 | G | A | -0.0112355 | 0.00204186 | 3.70E-08 | -0.0488778 | 0.0358545 | 0.172811 | 30 |
| rs11538 | 22 | 18220831 | G | A | 0.0172096 | 0.00259365 | 3.20E-11 | 0.0327749 | 0.0442676 | 0.459068 | 44 |
| rs1159974 | 6 | 126090277 | C | T | 0.0131824 | 0.00195149 | 1.40E-11 | -0.00653754 | 0.0348377 | 0.851146 | 46 |
| rs11603984 | 11 | 85238368 | T | G | -0.0189152 | 0.00286103 | 3.80E-11 | 0.0137566 | 0.0432053 | 0.750181 | 44 |
| rs1160543 | 2 | 100832182 | T | C | -0.0185222 | 0.00198725 | 1.20E-20 | 0.107 | 0.0350347 | 0.0022573 | 87 |
| rs11656076 | 17 | 31464270 | A | G | -0.0144978 | 0.00234319 | 6.10E-10 | 0.00983581 | 0.0393212 | 0.802479 | 38 |
| rs11656758 | 17 | 42301541 | G | A | 0.0143782 | 0.00206174 | 3.10E-12 | 0.0220906 | 0.0380391 | 0.56142 | 49 |
| rs11664848 | 18 | 42575661 | G | C | 0.0134456 | 0.00207285 | 8.80E-11 | 0.0423984 | 0.035815 | 0.236486 | 42 |
| rs1167309 | 1 | 49997674 | T | C | -0.0188395 | 0.00209079 | 2.00E-19 | 0.00330329 | 0.035961 | 0.926811 | 81 |
| rs11698185 | 20 | 25181998 | C | T | 0.0161058 | 0.00196301 | 2.30E-16 | 0.0116154 | 0.0349268 | 0.739464 | 67 |
| rs11709402 | 3 | 131551027 | G | A | 0.0206294 | 0.00218265 | 3.30E-21 | 0.060415 | 0.0394082 | 0.125261 | 89 |
| rs117176448 | 8 | 27261138 | G | C | 0.0225207 | 0.00331076 | 1.00E-11 | -0.023374 | 0.064213 | 0.715853 | 46 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs11731255 | 4 | 6495698 | G | A | 0.0111139 | 0.00195256 | 1.30E-08 | 0.0239534 | 0.0348693 | 0.492115 | 32 |
| rs117755721 | 17 | 11881356 | A | G | -0.0328285 | 0.00590379 | 2.70E-08 | 0.232494 | 0.0971631 | 0.0167194 | 31 |
| rs11779446 | 8 | 23388326 | G | A | -0.0206159 | 0.00266577 | 1.00E-14 | 0.0528775 | 0.0494891 | 0.285309 | 60 |
| rs11782341 | 8 | 4813459 | G | A | 0.0146922 | 0.00251611 | 5.20E-09 | 0.00354869 | 0.0415727 | 0.931974 | 34 |
| rs1182199 | 7 | 2862542 | A | C | -0.0203673 | 0.00212386 | 8.80E-22 | -0.0513412 | 0.0361955 | 0.156061 | 92 |
| rs11839227 | 13 | 59280705 | C | T | -0.0175549 | 0.00253518 | 4.40E-12 | 0.0810227 | 0.0493942 | 0.100937 | 48 |
| rs11854132 | 15 | 99229330 | A | G | -0.0158556 | 0.00220564 | 6.50E-13 | -0.0526724 | 0.0413213 | 0.202414 | 52 |
| rs11926024 | 3 | 173662094 | A | T | -0.0124039 | 0.00221031 | 2.00E-08 | 0.0947366 | 0.0367277 | 0.00989624 | 31 |
| rs12031634 | 1 | 34584393 | A | G | -0.0135032 | 0.00214264 | 2.90E-10 | 0.0219415 | 0.0402486 | 0.585651 | 40 |
| rs12072739 | 1 | 98315893 | G | A | 0.0174262 | 0.00233926 | 9.40E-14 | -0.0618114 | 0.0375086 | 0.0993688 | 55 |
| rs12103006 | 16 | 24726237 | G | A | 0.0154078 | 0.00197492 | 6.10E-15 | -0.00794743 | 0.0347986 | 0.819348 | 61 |
| rs12107172 | 3 | 147134039 | G | A | 0.015542 | 0.00284839 | 4.90E-08 | -0.0634109 | 0.044758 | 0.156556 | 30 |
| rs12144626 | 1 | 47670525 | C | T | -0.0152607 | 0.00198063 | 1.30E-14 | 0.0360747 | 0.0358922 | 0.314855 | 59 |
| rs1218822 | 13 | 28011963 | A | G | 0.0155474 | 0.00206908 | 5.70E-14 | -0.0517065 | 0.0369202 | 0.161366 | 56 |
| rs12254441 | 10 | 76617857 | T | C | -0.0136583 | 0.00209269 | 6.70E-11 | 0.0364361 | 0.0402291 | 0.365088 | 43 |
| rs1229984 | 4 | 100239319 | C | T | 0.0420959 | 0.00592358 | 1.20E-12 | 0.0923239 | 0.250305 | 0.712243 | 51 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs12316080 | 12 | 124438217 | T | C | 0.0161498 | 0.00206722 | 5.60E-15 | -0.0522951 | 0.0381081 | 0.169975 | 61 |
| rs12364470 | 11 | 134601012 | G | T | 0.0175592 | 0.00263466 | 2.70E-11 | -0.00518709 | 0.0418602 | 0.901383 | 44 |
| rs12459965 | 19 | 18452195 | T | C | -0.0160421 | 0.00221757 | 4.70E-13 | -0.0954501 | 0.0420498 | 0.0232119 | 52 |
| rs12462975 | 19 | 30272202 | A | G | 0.0200333 | 0.00209576 | 1.20E-21 | 0.0422815 | 0.0375146 | 0.259714 | 91 |
| rs12475388 | 2 | 27039792 | A | G | -0.0135316 | 0.00195977 | 5.00E-12 | 0.0240674 | 0.0350639 | 0.492469 | 48 |
| rs12528644 | 6 | 41749401 | A | C | 0.0118428 | 0.00216957 | 4.80E-08 | -0.0160527 | 0.0394484 | 0.68406 | 30 |
| rs12578258 | 12 | 122369153 | G | A | -0.0152505 | 0.00214522 | 1.20E-12 | -0.020489 | 0.0363046 | 0.572507 | 51 |
| rs1263629 | 2 | 207936911 | G | A | 0.0157296 | 0.00279234 | 1.80E-08 | 0.0608301 | 0.0584417 | 0.297937 | 32 |
| rs12724928 | 1 | 113128931 | C | T | -0.0178202 | 0.00241337 | 1.50E-13 | 0.0361811 | 0.0375369 | 0.335107 | 55 |
| rs12762744 | 10 | 53669252 | T | C | 0.0129137 | 0.00226633 | 1.20E-08 | -0.0460765 | 0.038386 | 0.230005 | 32 |
| rs12869627 | 13 | 99120452 | A | G | -0.014868 | 0.00215462 | 5.20E-12 | -0.0251185 | 0.0399109 | 0.529111 | 48 |
| rs12881629 | 14 | 101146413 | G | A | 0.0226319 | 0.00354724 | 1.80E-10 | -0.110938 | 0.0656424 | 0.0910207 | 41 |
| rs12885458 | 14 | 47303114 | G | T | -0.0133672 | 0.00195882 | 8.80E-12 | -0.0267677 | 0.0355632 | 0.451642 | 47 |
| rs12890931 | 14 | 69753369 | G | T | 0.0140913 | 0.00204721 | 5.90E-12 | 0.0547615 | 0.0351642 | 0.119397 | 47 |
| rs12937411 | 17 | 34950239 | T | C | -0.0151638 | 0.00199026 | 2.60E-14 | 0.0105588 | 0.0362191 | 0.77065 | 58 |
| rs1296328 | 4 | 137083193 | C | A | -0.0166952 | 0.00197551 | 2.90E-17 | 0.0108221 | 0.0348768 | 0.756336 | 71 |

| rs12974458 | 19 | 1866115 | T | C | 0.0114484 | 0.00197346 | 6.60E-09 | -0.0218939 | 0.0350975 | 0.532757 | 34 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs12987931 | 2 | 172900948 | T | C | 0.01447 | 0.00201321 | 6.60E-13 | 0.0296675 | 0.0354904 | 0.403195 | 52 |
| rs13008033 | 2 | 142293511 | G | A | -0.0145805 | 0.00250456 | 5.80E-09 | -0.0603655 | 0.0424662 | 0.155173 | 34 |
| rs13107325 | 4 | 103188709 | T | C | 0.0375077 | 0.00371154 | 5.20E-24 | 0.0974393 | 0.149529 | 0.514633 | 102 |
| rs13191298 | 6 | 70010225 | G | A | 0.0179661 | 0.00298029 | 1.70E-09 | 0.0402823 | 0.0583899 | 0.490267 | 36 |
| rs13218383 | 6 | 120173501 | G | C | -0.0149169 | 0.00206744 | 5.40E-13 | 0.0465547 | 0.0367382 | 0.205083 | 52 |
| rs13292699 | 9 | 15910044 | C | A | -0.0223076 | 0.00197517 | 1.40E-29 | 0.100637 | 0.0346454 | 0.00367519 | 128 |
| rs13333747 | 16 | 2175373 | C | T | -0.0215622 | 0.00254086 | 2.10E-17 | 0.029717 | 0.0455583 | 0.514218 | 72 |
| rs13354321 | 5 | 157925297 | C | T | 0.0115143 | 0.00197884 | 5.90E-09 | 0.0021862 | 0.0351072 | 0.950346 | 34 |
| rs1336486 | 13 | 40784814 | G | T | 0.0144371 | 0.00208531 | 4.40E-12 | -0.0709235 | 0.0354543 | 0.0454548 | 48 |
| rs13389219 | 2 | 165528876 | T | C | 0.0165 | 0.00199334 | 1.30E-16 | 0.00937124 | 0.0366123 | 0.797983 | 69 |
| rs13408397 | 2 | 69582028 | T | C | -0.0157786 | 0.00197847 | 1.50E-15 | -0.0445637 | 0.0358953 | 0.214425 | 64 |
| rs13409967 | 2 | 154821564 | T | G | 0.0182985 | 0.00320833 | 1.20E-08 | 0.196911 | 0.0870305 | 0.023663 | 33 |
| rs13427822 | 2 | 213414265 | G | A | -0.0134785 | 0.00221652 | 1.20E-09 | 0.00510165 | 0.0380544 | 0.893354 | 37 |
| rs1350506 | 4 | 89734587 | C | T | -0.0121038 | 0.0019543 | 5.90E-10 | -0.0110929 | 0.0350636 | 0.751725 | 38 |
| rs1363695 | 5 | 130378027 | T | C | -0.0160129 | 0.0023545 | 1.00E-11 | -0.016461 | 0.0389649 | 0.672693 | 46 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs1383723 | 4 | 67803507 | T | A | -0.0131276 | 0.0023739 | 3.20E-08 | 0.0884352 | 0.0417618 | 0.0342082 | 31 |
| rs14057 | 1 | 6683240 | A | G | -0.011452 | 0.0020398 | 2.00E-08 | 0.00709344 | 0.0386631 | 0.854431 | 32 |
| rs1436348 | 3 | 104612668 | G | A | 0.0143852 | 0.00197796 | 3.50E-13 | 0.00500086 | 0.0361146 | 0.889867 | 53 |
| rs1440286 | 11 | 12809152 | A | G | 0.012072 | 0.00198918 | 1.30E-09 | -0.0637843 | 0.0374442 | 0.088483 | 37 |
| rs1441264 | 13 | 79580919 | A | G | 0.0168227 | 0.00203425 | 1.30E-16 | 0.0211555 | 0.0372896 | 0.57049 | 68 |
| rs1446585 | 2 | 136407479 | G | A | -0.0148033 | 0.0022222 | 2.70E-11 | -0.0245214 | 0.0366882 | 0.503895 | 44 |
| rs1456 | 8 | 21952226 | C | T | 0.0118644 | 0.00199377 | 2.70E-09 | -0.0266896 | 0.0363441 | 0.46273 | 35 |
| rs1458156 | 12 | 41887940 | T | C | 0.0143399 | 0.00195592 | 2.30E-13 | 0.00345029 | 0.0350779 | 0.921646 | 54 |
| rs1471093 | 3 | 108031094 | A | G | 0.0119964 | 0.00201593 | 2.70E-09 | -0.0505834 | 0.0349922 | 0.1483 | 35 |
| rs147730268 | 12 | 123024476 | T | G | -0.0430138 | 0.00354027 | 5.70E-34 | 0.0452542 | 0.0629939 | 0.472517 | 148 |
| rs148636479 | 4 | 164359678 | T | A | -0.0365007 | 0.00624845 | 5.20E-09 | -0.0924287 | 0.211739 | 0.662457 | 34 |
| rs1503526 | 5 | 63020706 | C | T | 0.0139637 | 0.00195362 | 8.80E-13 | 0.0413528 | 0.0355452 | 0.244673 | 51 |
| rs1554654 | 3 | 44044344 | T | C | -0.0138327 | 0.00195785 | 1.60E-12 | -0.0246496 | 0.0358197 | 0.491353 | 50 |
| rs1568488 | 3 | 153657951 | C | G | 0.0171575 | 0.002003 | 1.10E-17 | -0.0564091 | 0.036482 | 0.122052 | 73 |
| rs16916303 | 9 | 30823761 | G | A | -0.0179431 | 0.00304317 | 3.70E-09 | 0.0395235 | 0.0521669 | 0.448669 | 35 |
| rs16934748 | 10 | 33970319 | C | T | 0.0176652 | 0.00273642 | 1.10E-10 | -0.0509606 | 0.0479799 | 0.288179 | 42 |

| rs16996657 | 20 | 15816236 | C | T | 0.020554 | 0.00293913 | 2.70E-12 | 0.0154993 | 0.0426182 | 0.716099 | 49 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs17024393 | 1 | 110154688 | C | T | 0.0665947 | 0.00615325 | 2.70E-27 | 0.100276 | 0.0749894 | 0.181159 | 117 |
| rs17115183 | 14 | 30137407 | T | C | 0.0139352 | 0.00200109 | 3.30E-12 | -0.00847595 | 0.0354857 | 0.811218 | 48 |
| rs17218712 | 9 | 14765220 | T | C | 0.012325 | 0.002137 | 8.00E-09 | -0.0280183 | 0.0397453 | 0.480844 | 33 |
| rs17399739 | 10 | 87490850 | G | A | 0.0230515 | 0.00386381 | 2.40E-09 | -0.0663871 | 0.0611587 | 0.277705 | 36 |
| rs17668356 | 3 | 61208619 | G | C | -0.0215606 | 0.00276035 | 5.70E-15 | 0.00723483 | 0.0501106 | 0.885203 | 61 |
| rs17704028 | 7 | 95140031 | T | C | -0.0172071 | 0.00276169 | 4.60E-10 | 0.060145 | 0.0432654 | 0.164486 | 39 |
| rs17744603 | 17 | 52926401 | G | C | 0.0154995 | 0.00262729 | 3.60E-09 | 0.0449728 | 0.0486875 | 0.355641 | 35 |
| rs17770336 | 9 | 28414625 | T | C | 0.0212749 | 0.00208654 | 2.10E-24 | -0.0679965 | 0.0359132 | 0.0583109 | 104 |
| rs17781552 | 1 | 203519648 | A | G | 0.0110373 | 0.0019837 | 2.60E-08 | -0.0998926 | 0.0349144 | 0.00422211 | 31 |
| rs1778830 | 1 | 156489974 | A | G | 0.0115824 | 0.00203229 | 1.20E-08 | 0.00512441 | 0.0393358 | 0.89635 | 32 |
| rs1782508 | 11 | 30243795 | G | C | -0.0147924 | 0.00205311 | 5.80E-13 | 0.117271 | 0.0373028 | 0.00166794 | 52 |
| rs1788808 | 18 | 21090023 | G | A | -0.0244406 | 0.00195957 | 1.10E-35 | 0.0290314 | 0.0349503 | 0.406172 | 156 |
| rs1801282 | 3 | 12393125 | G | C | 0.0311211 | 0.00299903 | 3.20E-25 | 0.0114822 | 0.0462565 | 0.803957 | 108 |
| rs1813039 | 8 | 76295984 | A | G | 0.0130436 | 0.00216401 | 1.70E-09 | 0.017587 | 0.0370568 | 0.635075 | 36 |
| rs1840126 | 2 | 236896765 | C | A | -0.0108669 | 0.00196514 | 3.20E-08 | 0.0177495 | 0.0349105 | 0.611153 | 31 |

| rs1857883 | 3 | 30052399 | A | G | 0.0124127 | 0.00196588 | 2.70E-10 | 0.0233196 | 0.0351189 | 0.506678 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs1861410 | 2 | 58933591 | T | C | -0.0194111 | 0.00196687 | 5.70E-23 | 0.0112094 | 0.0357074 | 0.753579 | 97 |
| rs1874832 | 15 | 67260238 | A | G | -0.0160124 | 0.00271039 | 3.50E-09 | 0.0689481 | 0.0522117 | 0.186652 | 35 |
| rs1881505 | 11 | 1483177 | C | T | -0.0238076 | 0.00424847 | 2.10E-08 | -0.0482663 | 0.103907 | 0.642278 | 31 |
| rs1915792 | 8 | 64703342 | T | C | -0.0121655 | 0.00196086 | 5.50E-10 | 0.0639682 | 0.0354624 | 0.0712574 | 38 |
| rs1945160 | 18 | 22164216 | A | G | -0.0114957 | 0.00202787 | 1.40E-08 | 0.0369103 | 0.0360254 | 0.30557 | 32 |
| rs1964675 | 3 | 136114945 | T | C | 0.0131288 | 0.00215496 | 1.10E-09 | 0.0194827 | 0.0408795 | 0.633655 | 37 |
| rs197374 | 1 | 112289983 | T | C | 0.0123895 | 0.00200643 | 6.60E-10 | -0.0290839 | 0.0350869 | 0.407155 | 38 |
| rs2052607 | 18 | 40788387 | A | G | -0.0175566 | 0.002065 | 1.90E-17 | 0.0315961 | 0.0357091 | 0.376254 | 72 |
| rs2081880 | 19 | 7249633 | G | A | 0.0129327 | 0.00221726 | 5.50E-09 | 0.085622 | 0.0377761 | 0.0234169 | 34 |
| rs215634 | 7 | 32369148 | G | A | -0.0162386 | 0.0020116 | 6.90E-16 | 0.0460904 | 0.0387738 | 0.234558 | 65 |
| rs2162826 | 5 | 122714477 | C | A | -0.0148306 | 0.00241478 | 8.20E-10 | 0.0399277 | 0.0412334 | 0.332877 | 38 |
| rs2172131 | 10 | 133978962 | C | T | -0.0147647 | 0.00198052 | 9.00E-14 | 0.00835052 | 0.0350082 | 0.81147 | 56 |
| rs2192527 | 4 | 18329824 | G | A | 0.0186849 | 0.00195803 | 1.40E-21 | -0.0339813 | 0.0361835 | 0.34766 | 91 |
| rs2208947 | 10 | 77657667 | G | A | 0.0127291 | 0.00221984 | 9.80E-09 | 0.0399477 | 0.0449722 | 0.374393 | 33 |
| rs2216931 | 2 | 181599070 | A | C | 0.0167032 | 0.00206274 | 5.60E-16 | 0.0527011 | 0.0397798 | 0.185231 | 66 |

| rs2237025 | 4 | 55541879 | C | T | -0.0118394 | 0.00197949 | 2.20E-09 | -0.0133388 | 0.0349882 | 0.703029 | 36 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs2249825 | 13 | 31037903 | C | G | -0.0127095 | 0.00221203 | 9.20E-09 | -0.0297837 | 0.0366931 | 0.416966 | 33 |
| rs2269487 | 4 | 2262191 | G | A | -0.0158015 | 0.00287282 | 3.80E-08 | -0.0178379 | 0.050548 | 0.724171 | 30 |
| rs2271189 | 12 | 56494991 | A | G | -0.0117332 | 0.00199503 | 4.10E-09 | 0.0634987 | 0.0359847 | 0.0776301 | 35 |
| rs2276190 | 18 | 63430340 | A | G | 0.0135718 | 0.00218811 | 5.60E-10 | -0.104475 | 0.0359278 | 0.0036384 | 38 |
| rs2287214 | 12 | 108090518 | G | A | 0.0160733 | 0.00199427 | 7.60E-16 | 0.105755 | 0.035467 | 0.00286576 | 65 |
| rs2289379 | 7 | 44804225 | T | C | -0.01292 | 0.00200597 | 1.20E-10 | 0.0138996 | 0.0350186 | 0.691426 | 41 |
| rs2302209 | 19 | 18324329 | T | C | 0.0216824 | 0.00216059 | 1.10E-23 | 0.000561223 | 0.0400819 | 0.988828 | 101 |
| rs2307111 | 5 | 75003678 | C | T | -0.0265622 | 0.00199805 | 2.50E-40 | 0.0314777 | 0.0353928 | 0.373797 | 177 |
| rs2417084 | 9 | 103119277 | C | T | 0.0167542 | 0.00209908 | 1.40E-15 | -0.0337296 | 0.0357736 | 0.345751 | 64 |
| rs2494196 | 1 | 219762581 | A | C | 0.0227658 | 0.00215631 | 4.70E-26 | 0.0707238 | 0.0381923 | 0.0640575 | 111 |
| rs2499468 | 6 | 51809081 | A | C | 0.0142319 | 0.00204964 | 3.80E-12 | -0.00197028 | 0.0395653 | 0.960283 | 48 |
| rs252749 | 5 | 77389973 | A | G | -0.0179935 | 0.00226342 | 1.90E-15 | 0.0520663 | 0.0451805 | 0.249154 | 63 |
| rs253440 | 5 | 141796191 | T | G | -0.0166619 | 0.00292777 | 1.30E-08 | -0.0143562 | 0.045545 | 0.752603 | 32 |
| rs2568958 | 1 | 72765116 | A | G | 0.020413 | 0.001989 | 1.00E-24 | 0.0442157 | 0.0364165 | 0.224684 | 105 |
| rs2606227 | 3 | 183536836 | C | T | -0.0133717 | 0.0020414 | 5.70E-11 | 0.0107359 | 0.0352782 | 0.760883 | 43 |

| rs2610245 | 5 | 63978255 | G | A | -0.0125974 | 0.00198674 | 2.30E-10 | -0.0132032 | 0.0353802 | 0.709014 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs2678204 | 1 | 201800511 | G | T | 0.0211458 | 0.00205731 | 8.80E-25 | 0.0462214 | 0.0380149 | 0.224032 | 106 |
| rs2791643 | 1 | 11207269 | T | C | -0.0147685 | 0.00228666 | 1.10E-10 | 0.0485407 | 0.0418551 | 0.246158 | 42 |
| rs2802295 | 6 | 108926496 | G | A | 0.020442 | 0.00201791 | 4.10E-24 | -0.00936099 | 0.0354027 | 0.79146 | 103 |
| rs2814993 | 6 | 34618893 | A | G | 0.044939 | 0.00280896 | 1.30E-57 | -0.148034 | 0.0437925 | 0.000723952 | 256 |
| rs28350 | 3 | 42418446 | G | A | -0.0187817 | 0.00255183 | 1.80E-13 | 0.0595436 | 0.0449251 | 0.185039 | 54 |
| rs28366156 | 6 | 31671498 | C | T | -0.0258212 | 0.00289453 | 4.60E-19 | -0.0322059 | 0.0687835 | 0.639627 | 80 |
| rs28375268 | 16 | 4949528 | T | G | -0.015738 | 0.00205102 | 1.70E-14 | -0.0369944 | 0.0367819 | 0.314523 | 59 |
| rs28587941 | 15 | 68122509 | C | T | -0.0266406 | 0.00233792 | 4.40E-30 | 0.0605366 | 0.0475229 | 0.202719 | 130 |
| rs28687152 | 15 | 53086701 | C | G | 0.0140828 | 0.0022192 | 2.20E-10 | -0.11595 | 0.046331 | 0.0123271 | 40 |
| rs2920939 | 8 | 93182601 | A | G | 0.0111885 | 0.00199878 | 2.20E-08 | 0.00551593 | 0.0362858 | 0.879176 | 31 |
| rs2943653 | 2 | 227047771 | T | C | -0.0131865 | 0.0020766 | 2.20E-10 | -0.0886752 | 0.036834 | 0.0160653 | 40 |
| rs2954021 | 8 | 126482077 | G | A | 0.0158876 | 0.00195392 | 4.30E-16 | -0.047208 | 0.0348919 | 0.176062 | 66 |
| rs2964023 | 5 | 153246412 | C | T | -0.0140621 | 0.00211678 | 3.10E-11 | 0.0422835 | 0.0395164 | 0.284609 | 44 |
| rs2966859 | 16 | 85324544 | G | A | -0.0149117 | 0.0024038 | 5.50E-10 | 0.044164 | 0.0426767 | 0.300738 | 38 |
| rs3113509 | 4 | 52932825 | T | C | -0.0162395 | 0.00220477 | 1.80E-13 | 0.0356992 | 0.0386608 | 0.355802 | 54 |

| rs314279 | 6 | 105402083 | A | C | -0.0239116 | 0.00305945 | 5.50E-15 | -0.0523192 | 0.0528718 | 0.322395 | 61 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs329651 | 11 | 133767622 | T | G | 0.0137454 | 0.00247375 | 2.80E-08 | 0.015373 | 0.0613106 | 0.802015 | 31 |
| rs33836 | 19 | 34008600 | T | C | -0.0170439 | 0.0019872 | 9.70E-18 | 0.0603566 | 0.0351603 | 0.0860498 | 74 |
| rs34045288 | 6 | 40369081 | T | C | 0.0208101 | 0.00206866 | 8.30E-24 | 0.0159893 | 0.0360601 | 0.65747 | 101 |
| rs34483452 | 5 | 87986314 | A | C | 0.0324202 | 0.00286872 | 1.30E-29 | -0.0656089 | 0.0533646 | 0.218905 | 128 |
| rs34517439 | 1 | 78450517 | A | C | 0.0432047 | 0.00301618 | 1.50E-46 | -0.0558529 | 0.0528789 | 0.290857 | 205 |
| rs34571768 | 8 | 57112046 | A | G | -0.0162132 | 0.00297266 | 4.90E-08 | -0.0390445 | 0.052932 | 0.460736 | 30 |
| rs35099456 | 11 | 66649527 | C | G | -0.0387799 | 0.00407213 | 1.70E-21 | -0.137548 | 0.102695 | 0.180445 | 91 |
| rs35307904 | 9 | 78511889 | A | G | -0.0173642 | 0.0029988 | 7.00E-09 | 0.0276264 | 0.0476423 | 0.562002 | 34 |
| rs35537311 | 17 | 71126150 | T | C | -0.0118759 | 0.0020105 | 3.50E-09 | -0.0229331 | 0.0358988 | 0.522934 | 35 |
| rs35589149 | 7 | 6426273 | C | G | 0.0200218 | 0.00288457 | 3.90E-12 | 0.0491975 | 0.0511439 | 0.336078 | 48 |
| rs35591746 | 1 | 150456350 | T | A | 0.0139768 | 0.00236337 | 3.30E-09 | -0.104784 | 0.0420253 | 0.0126538 | 35 |
| rs35697691 | 15 | 52353498 | G | C | 0.0250376 | 0.00347887 | 6.20E-13 | -0.00370932 | 0.0877549 | 0.966284 | 52 |
| rs35722851 | 7 | 130434500 | C | T | 0.0124526 | 0.00195649 | 2.00E-10 | 0.0138346 | 0.0350109 | 0.69273 | 41 |
| rs35867081 | 17 | 79047278 | G | A | -0.0142713 | 0.00196663 | 4.00E-13 | 0.011196 | 0.0351386 | 0.750012 | 53 |
| rs35882248 | 2 | 230627955 | T | C | 0.0186983 | 0.00209543 | 4.50E-19 | 0.0150149 | 0.0375147 | 0.688979 | 80 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs35937770 | 17 | 44808360 | A | G | 0.0120137 | 0.00208312 | 8.10E-09 | -0.00145694 | 0.0354177 | 0.967187 | 33 |
| rs3730071 | 12 | 49168798 | A | C | -0.0380753 | 0.00570662 | 2.50E-11 | 0.0420564 | 0.177172 | 0.812365 | 45 |
| rs3737992 | 1 | 33234128 | A | G | -0.0194482 | 0.00259868 | 7.20E-14 | -0.0358384 | 0.0443774 | 0.419331 | 56 |
| rs3739514 | 9 | 133783025 | A | G | 0.0117995 | 0.00207075 | 1.20E-08 | -0.0190628 | 0.0353424 | 0.589628 | 32 |
| rs3754963 | 2 | 166185707 | T | A | -0.0136014 | 0.00223515 | 1.20E-09 | 0.0101439 | 0.037893 | 0.788931 | 37 |
| rs3764625 | 19 | 49649051 | G | T | -0.0116627 | 0.0019914 | 4.70E-09 | -0.0257046 | 0.0349731 | 0.462349 | 34 |
| rs3766442 | 1 | 54724246 | C | T | 0.0127059 | 0.00207594 | 9.30E-10 | -0.120492 | 0.038619 | 0.00180842 | 37 |
| rs3766823 | 1 | 32197257 | A | G | 0.0190655 | 0.00258351 | 1.60E-13 | -0.0377854 | 0.0419101 | 0.367278 | 54 |
| rs3772882 | 3 | 81808602 | A | C | 0.0116765 | 0.00201566 | 6.90E-09 | 0.0373272 | 0.0350794 | 0.287294 | 34 |
| rs3774063 | 3 | 9511736 | T | C | 0.0214248 | 0.00322004 | 2.90E-11 | 0.0353635 | 0.0707353 | 0.617116 | 44 |
| rs3803286 | 14 | 103246470 | G | A | -0.0163725 | 0.00207372 | 2.90E-15 | 0.00857212 | 0.0369344 | 0.816468 | 62 |
| rs3807566 | 7 | 50564204 | T | G | -0.012672 | 0.00197257 | 1.30E-10 | 0.0614795 | 0.0358785 | 0.0866124 | 41 |
| rs3814883 | 16 | 29994922 | T | C | 0.0225304 | 0.00196129 | 1.50E-30 | -0.0265043 | 0.0353432 | 0.453308 | 132 |
| rs3817428 | 15 | 89415247 | G | C | -0.0162331 | 0.00221707 | 2.40E-13 | -0.078732 | 0.0377261 | 0.0368935 | 54 |
| rs3822742 | 5 | 139059017 | A | C | 0.0161316 | 0.00202598 | 1.70E-15 | 0.0244542 | 0.0373169 | 0.512267 | 63 |
| rs3826408 | 17 | 7101292 | T | C | 0.0119493 | 0.00196225 | 1.10E-09 | 0.0190868 | 0.034891 | 0.58435 | 37 |

| rs394608 | 21 | 46581798 | C | T | 0.0158642 | 0.00197101 | 8.40E-16 | 0.0359066 | 0.0353066 | 0.309156 | 65 |
| rs396354 | 2 | 86850022 | C | T | -0.0133694 | 0.00216591 | 6.70E-10 | -0.00382912 | 0.0392793 | 0.922342 | 38 |
| rs40071 | 5 | 107496102 | C | T | -0.0198339 | 0.00255126 | 7.60E-15 | -0.0238946 | 0.0427947 | 0.576602 | 60 |
| rs4088476 | 4 | 34911685 | T | C | 0.011656 | 0.00205975 | 1.50E-08 | -0.0609649 | 0.0362661 | 0.0927534 | 32 |
| rs4123668 | 3 | 82629523 | C | T | 0.0109217 | 0.00199148 | 4.20E-08 | -0.0533404 | 0.0364473 | 0.143332 | 30 |
| rs41271299 | 6 | 19839415 | T | C | 0.0308412 | 0.00442333 | 3.10E-12 | 0.05511 | 0.135685 | 0.684625 | 49 |
| rs4240326 | 4 | 145839264 | G | A | -0.0163404 | 0.00196127 | 8.00E-17 | 0.0373077 | 0.03501 | 0.286591 | 69 |
| rs429343 | 2 | 147903382 | G | A | -0.0151584 | 0.00197504 | 1.70E-14 | 0.0463981 | 0.0350273 | 0.185294 | 59 |
| rs429358 | 19 | 45411941 | C | T | -0.0263395 | 0.00271219 | 2.70E-22 | -0.0100734 | 0.044818 | 0.822164 | 94 |
| rs4377779 | 6 | 12117344 | C | T | -0.0161903 | 0.00205102 | 2.90E-15 | 0.0144053 | 0.036748 | 0.695056 | 62 |
| rs441792 | 2 | 105404221 | G | A | 0.0142917 | 0.00195402 | 2.60E-13 | 0.0102249 | 0.0350887 | 0.770744 | 53 |
| rs4430672 | 14 | 63094407 | C | T | -0.0148335 | 0.00245344 | 1.50E-09 | -0.0608573 | 0.0427546 | 0.154617 | 37 |
| rs4477562 | 13 | 54104968 | T | C | 0.029284 | 0.00294554 | 2.70E-23 | -0.0787391 | 0.0502884 | 0.117407 | 99 |
| rs4482463 | 2 | 205375909 | A | C | -0.0299133 | 0.00366606 | 3.40E-16 | -0.0193708 | 0.0739078 | 0.793248 | 67 |
| rs4562625 | 1 | 209218583 | G | C | -0.0123766 | 0.00200188 | 6.30E-10 | -0.0213721 | 0.0354153 | 0.546197 | 38 |
| rs4589116 | 1 | 151002510 | T | C | -0.0173264 | 0.00286467 | 1.50E-09 | -0.00357651 | 0.0447084 | 0.93624 | 37 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs4658403 | 1 | 243832560 | T | C | -0.0155056 | 0.00261946 | 3.20E-09 | 0.000687344 | 0.0453864 | 0.987917 | 35 |
| rs467176 | 5 | 66193103 | T | C | 0.0112111 | 0.00196444 | 1.10E-08 | 0.00319898 | 0.0350297 | 0.927237 | 33 |
| rs4709745 | 6 | 164105984 | C | T | 0.0138387 | 0.00211712 | 6.30E-11 | 0.0104551 | 0.040697 | 0.797255 | 43 |
| rs4718964 | 7 | 70038969 | T | G | 0.0146651 | 0.0019903 | 1.70E-13 | 0.0608092 | 0.0355375 | 0.0870583 | 54 |
| rs477895 | 11 | 64048912 | T | C | 0.0189346 | 0.00263844 | 7.20E-13 | -0.0184311 | 0.0475243 | 0.698146 | 52 |
| rs4820323 | 22 | 38599767 | G | C | -0.0193466 | 0.00198862 | 2.30E-22 | 0.0380625 | 0.0356312 | 0.285414 | 95 |
| rs4876611 | 8 | 116671848 | G | A | 0.0226808 | 0.00217833 | 2.20E-25 | 0.0248476 | 0.0377908 | 0.510857 | 108 |
| rs4908672 | 1 | 7725414 | T | C | 0.0113099 | 0.00199809 | 1.50E-08 | -0.0274047 | 0.0352374 | 0.436736 | 32 |
| rs4919478 | 10 | 102427797 | G | A | 0.0125754 | 0.00212837 | 3.50E-09 | -0.00681804 | 0.0387469 | 0.860323 | 35 |
| rs4936175 | 11 | 132641959 | C | T | 0.0118349 | 0.00196606 | 1.70E-09 | -0.0412613 | 0.0363962 | 0.256933 | 36 |
| rs497905 | 8 | 102879497 | T | C | -0.0128813 | 0.00235117 | 4.30E-08 | 0.0044863 | 0.0423115 | 0.915558 | 30 |
| rs530255 | 4 | 171041408 | C | T | 0.0112973 | 0.00198568 | 1.30E-08 | -0.0169591 | 0.0349664 | 0.627668 | 32 |
| rs543874 | 1 | 177889480 | G | A | 0.0444915 | 0.00241278 | 6.30E-76 | -0.0719728 | 0.0453092 | 0.112178 | 340 |
| rs553634 | 11 | 94233959 | A | C | 0.0109701 | 0.00198315 | 3.20E-08 | 0.0632374 | 0.0356988 | 0.0764909 | 31 |
| rs55707359 | 11 | 46159333 | G | T | 0.0501467 | 0.00802602 | 4.20E-10 | -0.816567 | 0.480625 | 0.0893244 | 39 |
| rs55726687 | 12 | 991306 | A | G | 0.0223062 | 0.00239713 | 1.30E-20 | -0.0542747 | 0.0427022 | 0.203727 | 87 |

| rs56374036 | 20 | 46367372 | G | A | -0.0157344 | 0.0024087 | 6.50E-11 | -0.0487023 | 0.0518436 | 0.347522 | 43 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs57636386 | 18 | 58048295 | C | T | -0.0378766 | 0.00354068 | 1.00E-26 | 0.021692 | 0.0795643 | 0.785134 | 114 |
| rs577525 | 10 | 99769388 | C | T | 0.0186462 | 0.00196979 | 2.90E-21 | 0.0282578 | 0.0351218 | 0.42107 | 90 |
| rs59227842 | 11 | 43692423 | G | A | 0.022946 | 0.00212771 | 4.10E-27 | 0.0338064 | 0.0375372 | 0.367796 | 116 |
| rs59322078 | 16 | 51792949 | T | C | -0.0190695 | 0.00349334 | 4.80E-08 | -0.0126578 | 0.10857 | 0.907187 | 30 |
| rs6008749 | 22 | 46730486 | A | T | 0.0188078 | 0.00318766 | 3.60E-09 | 0.12433 | 0.0591549 | 0.0355738 | 35 |
| rs6029180 | 20 | 39178923 | G | A | 0.0127468 | 0.00210805 | 1.50E-09 | 0.00694871 | 0.0387609 | 0.857725 | 37 |
| rs6058209 | 20 | 33821577 | A | G | 0.0146479 | 0.00209635 | 2.80E-12 | 0.0162258 | 0.0374237 | 0.664599 | 49 |
| rs60661769 | 4 | 80811207 | A | T | 0.0142386 | 0.00204372 | 3.20E-12 | 0.00219484 | 0.0402897 | 0.956556 | 49 |
| rs6069037 | 20 | 53503198 | A | C | -0.0136445 | 0.00220742 | 6.40E-10 | -0.0406894 | 0.040726 | 0.317746 | 38 |
| rs60814640 | 7 | 92286918 | G | A | 0.0155148 | 0.00206143 | 5.20E-14 | -0.0347477 | 0.0360396 | 0.334969 | 57 |
| rs61754230 | 12 | 72179446 | T | C | 0.0427975 | 0.00702405 | 1.10E-09 | -0.128276 | 0.238833 | 0.591201 | 37 |
| rs61779305 | 1 | 39921811 | C | G | 0.0160792 | 0.00266375 | 1.60E-09 | -0.00735114 | 0.0492044 | 0.881238 | 36 |
| rs617948 | 11 | 118981025 | G | A | 0.0112934 | 0.00195633 | 7.80E-09 | -0.0540097 | 0.0347982 | 0.120643 | 33 |
| rs61813293 | 1 | 156019075 | T | G | 0.0211528 | 0.00277793 | 2.60E-14 | 0.0217677 | 0.04879 | 0.655488 | 58 |
| rs61903695 | 11 | 89922417 | G | A | 0.0156535 | 0.00224486 | 3.10E-12 | 0.00704108 | 0.0405632 | 0.862193 | 49 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs61969510 | 13 | 86484025 | C | T | 0.0152468 | 0.00219909 | 4.10E-12 | 0.0118763 | 0.0360801 | 0.742031 | 48 |
| rs61992671 | 14 | 101531854 | G | A | -0.0145622 | 0.00204493 | 1.10E-12 | 0.0777504 | 0.035243 | 0.0273754 | 51 |
| rs62025831 | 15 | 84545685 | C | T | -0.0252975 | 0.00218025 | 4.00E-31 | -0.0422082 | 0.0373592 | 0.258563 | 135 |
| rs62107261 | 2 | 422144 | C | T | -0.0783974 | 0.00455712 | 2.50E-66 | -0.139981 | 0.125136 | 0.263299 | 296 |
| rs62124717 | 2 | 12817006 | A | G | 0.018455 | 0.00334767 | 3.50E-08 | -0.131147 | 0.0832532 | 0.115192 | 30 |
| rs62302286 | 4 | 82157284 | C | T | 0.0139501 | 0.00225241 | 5.90E-10 | 0.0772521 | 0.0411873 | 0.0607058 | 38 |
| rs62379271 | 5 | 105870033 | G | T | 0.0111105 | 0.00198188 | 2.10E-08 | -0.0145997 | 0.0349664 | 0.676287 | 31 |
| rs62396185 | 6 | 26180634 | C | G | -0.0351601 | 0.0022264 | 3.50E-56 | 0.0413536 | 0.0355165 | 0.244283 | 249 |
| rs62407565 | 6 | 33535739 | G | A | 0.0141481 | 0.00218148 | 8.80E-11 | -0.0257182 | 0.0451139 | 0.568629 | 42 |
| rs62443626 | 7 | 39056649 | A | G | -0.0107742 | 0.00196831 | 4.40E-08 | -0.00526394 | 0.0352388 | 0.881254 | 30 |
| rs62499697 | 8 | 14293020 | C | T | 0.014401 | 0.00217517 | 3.60E-11 | -0.049848 | 0.0404828 | 0.218197 | 44 |
| rs6461999 | 7 | 27281304 | A | C | -0.0193703 | 0.00292146 | 3.30E-11 | -0.00574158 | 0.0473163 | 0.903418 | 44 |
| rs6469351 | 8 | 112353205 | T | C | 0.0123775 | 0.00208476 | 2.90E-09 | -0.0939968 | 0.0368904 | 0.010834 | 35 |
| rs655510 | 2 | 165370061 | C | A | -0.0117948 | 0.00196913 | 2.10E-09 | -0.00364396 | 0.0359706 | 0.919309 | 36 |
| rs6561937 | 13 | 58257667 | A | T | -0.0134337 | 0.00227678 | 3.60E-09 | 0.0223689 | 0.0433272 | 0.60566 | 35 |
| rs6567160 | 18 | 57829135 | C | T | 0.0486668 | 0.00231465 | 3.80E-98 | -0.146615 | 0.0459871 | 0.00143176 | 442 |

| rs6569648 | 6 | 130349119 | T | C | -0.0178981 | 0.00228474 | 4.70E-15 | 0.0162171 | 0.0426413 | 0.703712 | 61 |
|-----------|---|-----------|---|---|------------|------------|----------|-----------|-----------|----------|----|
| rs6575340 | 14 | 94023972 | A | G | 0.0183932 | 0.00203768 | 1.80E-19 | -0.0151419 | 0.0360304 | 0.6743 | 81 |
| rs6601527 | 8 | 10665444 | A | C | -0.0128485 | 0.00199312 | 1.10E-10 | 0.0525896 | 0.0351459 | 0.13457 | 42 |
| rs6606686 | 12 | 110903380 | C | G | -0.015588 | 0.00209493 | 1.00E-13 | -0.0259966 | 0.0374031 | 0.487031 | 55 |
| rs6669189 | 1 | 75011358 | T | C | 0.0131777 | 0.00199384 | 3.90E-11 | 0.0587212 | 0.0349774 | 0.0931837 | 44 |
| rs6684205 | 1 | 218609702 | G | A | 0.0142452 | 0.00215289 | 3.70E-11 | -0.0688735 | 0.0372253 | 0.064288 | 44 |
| rs6688826 | 1 | 80812329 | C | T | 0.012894 | 0.00212701 | 1.30E-09 | -0.0440781 | 0.0436549 | 0.312642 | 37 |
| rs6744646 | 2 | 628504 | G | A | 0.0471154 | 0.00258261 | 2.30E-74 | -0.0917342 | 0.0477939 | 0.0549376 | 333 |
| rs6752378 | 2 | 25150116 | A | C | 0.0240987 | 0.00194906 | 4.10E-35 | -0.0228641 | 0.0354081 | 0.518454 | 153 |
| rs67609008 | 10 | 126640936 | C | T | 0.0151399 | 0.00217618 | 3.50E-12 | -0.0699267 | 0.0452436 | 0.122211 | 48 |
| rs67689854 | 16 | 89625227 | A | C | -0.0198113 | 0.00294036 | 1.60E-11 | 0.017879 | 0.043112 | 0.678353 | 45 |
| rs6769617 | 3 | 62687746 | T | A | -0.0120287 | 0.00206495 | 5.70E-09 | 0.00849772 | 0.0378218 | 0.82223 | 34 |
| rs6782714 | 3 | 71684845 | T | C | -0.0118429 | 0.00200535 | 3.50E-09 | -0.0184116 | 0.0350119 | 0.598981 | 35 |
| rs6790206 | 3 | 161434707 | G | A | 0.0112074 | 0.0019503 | 9.10E-09 | -0.0201654 | 0.0350205 | 0.564739 | 33 |
| rs6840236 | 4 | 56289785 | C | T | 0.0141758 | 0.00195841 | 4.50E-13 | 0.0529131 | 0.0349173 | 0.129675 | 52 |
| rs6946091 | 7 | 150684346 | G | A | 0.013258 | 0.00202448 | 5.80E-11 | 0.0409181 | 0.0372645 | 0.272186 | 43 |

| rs6973656 | 7 | 77422583 | G | A | 0.0126406 | 0.00199534 | 2.40E-10 | -0.0346732 | 0.0363495 | 0.340143 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs6973700 | 7 | 1856669 | G | A | -0.0140409 | 0.00241705 | 6.30E-09 | -0.038302 | 0.0390647 | 0.326852 | 34 |
| rs6980476 | 8 | 87519315 | G | T | 0.0120742 | 0.00219168 | 3.60E-08 | -0.039108 | 0.0382781 | 0.306933 | 30 |
| rs698147 | 5 | 3513485 | G | A | -0.0122788 | 0.00196155 | 3.90E-10 | -0.0107017 | 0.0348861 | 0.759027 | 39 |
| rs6998660 | 8 | 143373972 | G | A | 0.0127284 | 0.00196519 | 9.40E-11 | 0.0149648 | 0.0351884 | 0.670635 | 42 |
| rs7027304 | 9 | 129408290 | T | C | 0.0140728 | 0.00206238 | 8.90E-12 | -0.0328003 | 0.0392726 | 0.403607 | 47 |
| rs7034554 | 9 | 37081301 | G | A | -0.0116902 | 0.00201834 | 7.00E-09 | -0.0764959 | 0.0383662 | 0.04617 | 34 |
| rs7038943 | 9 | 120377178 | C | T | -0.0143227 | 0.00206176 | 3.70E-12 | -0.024188 | 0.0356032 | 0.496899 | 48 |
| rs7070670 | 10 | 61842645 | T | C | -0.0122284 | 0.00209427 | 5.30E-09 | -0.0449972 | 0.0386993 | 0.244935 | 34 |
| rs7124681 | 11 | 47529947 | A | C | 0.0234274 | 0.00198294 | 3.30E-32 | -0.0373065 | 0.0355939 | 0.294586 | 140 |
| rs7132908 | 12 | 50263148 | A | G | 0.0287176 | 0.00200949 | 2.50E-46 | -0.0417197 | 0.0359254 | 0.245525 | 204 |
| rs7167767 | 15 | 81025755 | A | G | 0.0125923 | 0.00205198 | 8.40E-10 | -0.0119725 | 0.0364008 | 0.742226 | 38 |
| rs7171864 | 15 | 73227249 | A | G | 0.0175619 | 0.00207457 | 2.60E-17 | -0.0727708 | 0.0384243 | 0.0582412 | 72 |
| rs719802 | 11 | 113234679 | C | T | -0.0149119 | 0.00200551 | 1.00E-13 | -0.0602602 | 0.036949 | 0.102911 | 55 |
| rs7218014 | 17 | 65832016 | C | T | 0.0269074 | 0.0024626 | 8.60E-28 | 0.0197264 | 0.041021 | 0.630597 | 119 |
| rs72634826 | 1 | 1601052 | A | G | -0.0171518 | 0.00225365 | 2.70E-14 | -0.0375128 | 0.0426227 | 0.378798 | 58 |

| rs72755233 | 15 | 100692953 | A | G | -0.0230331 | 0.00310531 | 1.20E-13 | 0.0855586 | 0.0551955 | 0.121118 | 55 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs72767253 | 5 | 51090842 | A | C | -0.0330784 | 0.00486322 | 1.00E-11 | 0.014031 | 0.123937 | 0.909863 | 46 |
| rs72892910 | 6 | 50816887 | T | G | 0.034486 | 0.00258879 | 1.70E-40 | -0.00690911 | 0.0433407 | 0.873343 | 177 |
| rs72915955 | 11 | 56909311 | A | G | -0.015254 | 0.00267467 | 1.20E-08 | 0.00774615 | 0.0514464 | 0.880317 | 33 |
| rs72917533 | 2 | 175238924 | C | T | -0.0180733 | 0.00251355 | 6.50E-13 | 0.0525047 | 0.0501027 | 0.294666 | 52 |
| rs72976986 | 19 | 4050424 | A | G | -0.0190324 | 0.00251664 | 4.00E-14 | 0.0114963 | 0.0482115 | 0.811527 | 57 |
| rs73052033 | 3 | 185828465 | C | T | -0.0211658 | 0.00251576 | 4.00E-17 | -0.0276738 | 0.0474831 | 0.560018 | 71 |
| rs73142879 | 20 | 51195932 | T | C | -0.0250526 | 0.0024928 | 9.20E-24 | -0.0203972 | 0.0480016 | 0.67089 | 101 |
| rs73175572 | 3 | 185490184 | G | A | 0.0180427 | 0.00312853 | 8.10E-09 | -0.0192286 | 0.0543399 | 0.723444 | 33 |
| rs73213484 | 4 | 28489339 | T | A | -0.0230745 | 0.00280342 | 1.90E-16 | 0.0471357 | 0.0492947 | 0.33897 | 68 |
| rs73371569 | 7 | 76814053 | C | A | 0.0234158 | 0.00398289 | 4.10E-09 | -0.0289101 | 0.0727603 | 0.691122 | 35 |
| rs7357754 | 9 | 92207308 | G | A | 0.0130448 | 0.00196037 | 2.80E-11 | -0.0226549 | 0.034913 | 0.516406 | 44 |
| rs7372674 | 3 | 196149165 | A | C | 0.0146589 | 0.00203437 | 5.80E-13 | 0.0248078 | 0.0380751 | 0.514692 | 52 |
| rs73985439 | 2 | 212299249 | C | A | 0.0126522 | 0.00211613 | 2.20E-09 | 0.0568577 | 0.0379242 | 0.13381 | 36 |
| rs743572 | 10 | 104597152 | G | A | 0.0125945 | 0.00201698 | 4.30E-10 | 0.00653702 | 0.0359802 | 0.855831 | 39 |
| rs7442885 | 5 | 87682877 | G | C | -0.0211336 | 0.00238351 | 7.50E-19 | -0.0354836 | 0.0450633 | 0.431037 | 79 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs7460093 | 8 | 144876159 | A | G | 0.0114526 | 0.00197487 | 6.70E-09 | 0.063467 | 0.0352769 | 0.0720012 | 34 |
| rs74618095 | 21 | 40683196 | C | T | 0.0148532 | 0.00270269 | 3.90E-08 | -0.0339665 | 0.0405383 | 0.402095 | 30 |
| rs75281888 | 5 | 50961753 | C | T | 0.0382694 | 0.00551616 | 4.00E-12 | -0.0219294 | 0.0983928 | 0.823632 | 48 |
| rs7537581 | 1 | 2725475 | A | C | 0.0125527 | 0.00196786 | 1.80E-10 | -0.0378392 | 0.0353173 | 0.283987 | 41 |
| rs75412871 | 12 | 121709430 | T | C | -0.025579 | 0.00440858 | 6.50E-09 | -0.0935289 | 0.0702174 | 0.182863 | 34 |
| rs754635 | 3 | 42305131 | G | C | 0.0213268 | 0.00307284 | 3.90E-12 | 0.0819986 | 0.0588894 | 0.163796 | 48 |
| rs75524125 | 12 | 103663536 | A | T | -0.0184245 | 0.00292272 | 2.90E-10 | 0.0346004 | 0.0462404 | 0.454296 | 40 |
| rs756717 | 16 | 72996162 | A | G | -0.0130412 | 0.00201989 | 1.10E-10 | -0.0142146 | 0.0356035 | 0.689711 | 42 |
| rs7575523 | 2 | 59335104 | G | T | -0.0210772 | 0.0019987 | 5.30E-26 | -0.0952243 | 0.0352665 | 0.00693123 | 111 |
| rs7619139 | 3 | 25110415 | A | T | 0.0137529 | 0.00198694 | 4.50E-12 | -0.00483012 | 0.0353659 | 0.891366 | 48 |
| rs7632381 | 3 | 141106063 | C | T | 0.0225939 | 0.00196048 | 9.90E-31 | -0.0447591 | 0.0350829 | 0.202023 | 133 |
| rs7663885 | 4 | 83159728 | C | T | -0.0109141 | 0.00194867 | 2.10E-08 | 0.0177346 | 0.0358286 | 0.62061 | 31 |
| rs76702514 | 1 | 195148296 | G | C | -0.0153947 | 0.00240452 | 1.50E-10 | -0.0377888 | 0.0416029 | 0.363708 | 41 |
| rs7683836 | 4 | 180167906 | A | G | -0.0107953 | 0.00197091 | 4.30E-08 | -0.0373965 | 0.0350149 | 0.285513 | 30 |
| rs76895963 | 12 | 4384844 | G | T | 0.0669471 | 0.00757221 | 9.50E-19 | -0.0299797 | 0.105475 | 0.776231 | 78 |
| rs770082 | 12 | 89776485 | A | G | 0.0170871 | 0.00197814 | 5.70E-18 | -0.0293845 | 0.0362741 | 0.417901 | 75 |

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|---|---|---|---|---|---|---|---|---|---|---|
| rs7762794 | 6 | 153380228 | G | A | 0.0125735 | 0.00215952 | 5.80E-09 | -0.060481 | 0.0368539 | 0.100776 | 34 |
| rs7828631 | 8 | 132875320 | T | C | 0.0171594 | 0.00312884 | 4.20E-08 | 0.0409945 | 0.0735877 | 0.577471 | 30 |
| rs7845090 | 8 | 73449940 | A | G | -0.0228497 | 0.00216201 | 4.20E-26 | -0.0838718 | 0.0396693 | 0.0344921 | 112 |
| rs7864914 | 9 | 122631415 | G | A | 0.0194261 | 0.00321643 | 1.50E-09 | 0.00568542 | 0.0625385 | 0.927563 | 36 |
| rs7893571 | 10 | 16750129 | T | G | 0.0146196 | 0.00207681 | 1.90E-12 | -0.00233748 | 0.0379031 | 0.950826 | 50 |
| rs7916385 | 10 | 102470432 | T | C | -0.0219389 | 0.00297359 | 1.60E-13 | -0.0212957 | 0.0505418 | 0.673501 | 54 |
| rs79197301 | 14 | 41327292 | A | T | 0.0230668 | 0.00355518 | 8.70E-11 | -0.00372566 | 0.0977578 | 0.969599 | 42 |
| rs7934638 | 11 | 122765478 | A | G | 0.0154187 | 0.00227947 | 1.30E-11 | -0.0485491 | 0.0441145 | 0.271104 | 46 |
| rs7944782 | 11 | 130795698 | G | T | 0.0149978 | 0.00196395 | 2.20E-14 | 0.00893721 | 0.0349049 | 0.797916 | 58 |
| rs79518326 | 1 | 174946883 | A | C | -0.0436689 | 0.00591223 | 1.50E-13 | -0.0735563 | 0.154912 | 0.634911 | 55 |
| rs7960609 | 12 | 18161569 | G | A | 0.0121771 | 0.00208948 | 5.60E-09 | -0.00564136 | 0.0415017 | 0.891876 | 34 |
| rs7975187 | 12 | 60964108 | G | A | 0.0153517 | 0.00238412 | 1.20E-10 | 0.0175351 | 0.0442398 | 0.691836 | 41 |
| rs79847714 | 2 | 193865203 | C | T | -0.0142962 | 0.00232419 | 7.70E-10 | -0.00746282 | 0.0412009 | 0.856264 | 38 |
| rs8026411 | 15 | 62117222 | T | C | -0.0385285 | 0.00667383 | 7.80E-09 | 0.0575914 | 0.134698 | 0.668972 | 33 |
| rs8074454 | 17 | 3981148 | C | G | 0.0135439 | 0.00208646 | 8.50E-11 | 0.079279 | 0.0379753 | 0.0368299 | 42 |
| rs8076669 | 17 | 15888448 | C | T | 0.0112148 | 0.00197274 | 1.30E-08 | 0.0711435 | 0.0355729 | 0.0455072 | 32 |

| rs8078135 | 17 | 21268583 | T | C | -0.0108198 | 0.00196298 | 3.50E-08 | 0.0128477 | 0.0348709 | 0.712546 | 30 |
| rs8093356 | 18 | 2664532 | T | C | -0.0148598 | 0.00233922 | 2.10E-10 | 0.0411691 | 0.0421943 | 0.329212 | 40 |
| rs8096564 | 18 | 39910592 | T | G | 0.0143768 | 0.00215052 | 2.30E-11 | -0.071548 | 0.0363003 | 0.0487237 | 45 |
| rs812949 | 5 | 170506141 | C | T | 0.0176994 | 0.00219661 | 7.80E-16 | 0.0443079 | 0.037369 | 0.235746 | 65 |
| rs815163 | 1 | 190294726 | C | T | -0.0138291 | 0.00196314 | 1.90E-12 | 0.0271645 | 0.0350243 | 0.437992 | 50 |
| rs8192675 | 3 | 170724883 | C | T | 0.0160216 | 0.00214912 | 9.00E-14 | -0.0156817 | 0.0395602 | 0.69181 | 56 |
| rs825680 | 16 | 73606563 | T | A | -0.0113808 | 0.00199539 | 1.20E-08 | 0.0296636 | 0.0355 | 0.403382 | 33 |
| rs854917 | 6 | 90127390 | T | C | -0.0132445 | 0.00222371 | 2.60E-09 | -0.041469 | 0.0405925 | 0.306974 | 35 |
| rs862320 | 16 | 69651866 | T | C | -0.0183073 | 0.00198982 | 3.60E-20 | 0.061412 | 0.0351863 | 0.0809264 | 85 |
| rs879620 | 16 | 4015729 | T | C | 0.0241441 | 0.00201244 | 3.70E-33 | 0.0235169 | 0.0353794 | 0.506237 | 144 |
| rs885114 | 11 | 8678756 | A | G | -0.0199119 | 0.00218994 | 9.70E-20 | -0.0365486 | 0.0396064 | 0.356115 | 83 |
| rs900448 | 12 | 133404805 | G | C | 0.0129143 | 0.00211789 | 1.10E-09 | 0.00601851 | 0.0397815 | 0.879748 | 37 |
| rs9294260 | 6 | 83433228 | A | G | 0.0137122 | 0.00196418 | 2.90E-12 | -0.038859 | 0.035053 | 0.267612 | 49 |
| rs9304665 | 19 | 47602577 | A | T | 0.0178838 | 0.00230841 | 9.40E-15 | 0.028257 | 0.0385684 | 0.463774 | 60 |
| rs9316661 | 13 | 54354615 | C | T | -0.0180893 | 0.00245572 | 1.80E-13 | 0.0135554 | 0.0442242 | 0.759212 | 54 |
| rs9320823 | 6 | 98429337 | C | T | 0.0188041 | 0.00199609 | 4.50E-21 | -0.00209906 | 0.0373387 | 0.955169 | 89 |

| SNP | Chr | Position | Effect allele | Other allele | Beta | SE | P | Beta | SE | P | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs9322332 | 6 | 152166801 | A | C | 0.0115238 | 0.00195898 | 4.00E-09 | 0.039426 | 0.0354845 | 0.266535 | 35 |
| rs9378684 | 6 | 2110941 | T | C | 0.0152667 | 0.00245891 | 5.30E-10 | -0.00178905 | 0.0389848 | 0.963397 | 39 |
| rs9515455 | 13 | 112239671 | A | G | 0.0134123 | 0.00199645 | 1.80E-11 | 0.019932 | 0.0349468 | 0.568439 | 45 |
| rs9522183 | 13 | 111977280 | T | G | -0.0149957 | 0.00198423 | 4.10E-14 | -0.0188453 | 0.0351813 | 0.592193 | 57 |
| rs9533031 | 13 | 42772717 | T | G | 0.0121763 | 0.00197792 | 7.50E-10 | 0.0312875 | 0.0349997 | 0.371356 | 38 |
| rs9654453 | 5 | 299621 | C | T | 0.0179075 | 0.00291413 | 8.00E-10 | -0.0753267 | 0.0616053 | 0.221431 | 38 |
| rs9673839 | 16 | 76895693 | G | A | 0.0110754 | 0.00196494 | 1.70E-08 | 0.00722618 | 0.0349895 | 0.836381 | 32 |
| rs9788550 | 14 | 29681138 | C | G | -0.0221218 | 0.00227487 | 2.40E-22 | -0.0109859 | 0.0367522 | 0.765003 | 95 |
| rs9839081 | 3 | 123051230 | A | G | -0.0144833 | 0.00211554 | 7.60E-12 | 0.0340908 | 0.0385238 | 0.376196 | 47 |
| rs9843653 | 3 | 49920571 | C | T | 0.0248378 | 0.00195189 | 4.30E-37 | -0.083013 | 0.0357148 | 0.0201081 | 162 |
| rs9851777 | 3 | 88267467 | C | T | 0.0224847 | 0.00305205 | 1.70E-13 | -0.0651195 | 0.0575471 | 0.257808 | 54 |
| rs9876664 | 3 | 85806313 | T | G | -0.0162889 | 0.00201752 | 6.80E-16 | 0.0338475 | 0.0350567 | 0.334291 | 65 |
| rs9937053 | 16 | 53799507 | A | G | 0.0601829 | 0.00197685 | 1.00E-200 | 0.0312335 | 0.0351465 | 0.374183 | 927 |
| rs9955276 | 18 | 1839339 | T | C | 0.0178069 | 0.0027965 | 1.90E-10 | -0.0229608 | 0.0462708 | 0.619735 | 41 |
| rs9968060 | 3 | 62471282 | T | C | 0.0146472 | 0.00207288 | 1.60E-12 | 0.00103798 | 0.03667 | 0.977418 | 50 |

8  **Note.** Chr, chromosome; Beta, beta-coefficient; F, F-statistic; OCD, Obsessive-compulsive disorder; SE, standard error.

**Supplementary Table S3** Effect estimate of the association between genetically predicted body fat-free mass and risk of obsessive-
compulsive disorder

| Variant rsID | Chr | Position | Effect allele | Other allele | Association with fat-free mass | | | Association with OCD | | | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Beta | Se | P | Beta | Se | P | |
| rs10008356 | 4 | 57761967 | G | C | -0.00744892 | 0.00131312 | 1.40E-08 | 0.0558508 | 0.0357822 | 0.118559 | 32 |
| rs10020631 | 4 | 69353863 | A | G | -0.00831407 | 0.00144209 | 8.20E-09 | 0.0202418 | 0.0407936 | 0.619754 | 33 |
| rs1008158 | 9 | 113828811 | G | A | 0.00849478 | 0.0013173 | 1.10E-10 | -0.0125946 | 0.0358907 | 0.725651 | 42 |
| rs10119967 | 9 | 99268421 | C | A | 0.0155892 | 0.00154444 | 5.90E-24 | 0.0734631 | 0.0462962 | 0.112557 | 102 |
| rs10172196 | 2 | 36780549 | A | G | 0.0107611 | 0.00134675 | 1.30E-15 | -0.0203329 | 0.0370347 | 0.58299 | 64 |
| rs10188231 | 2 | 142297493 | G | C | -0.0100461 | 0.0015909 | 2.70E-10 | -0.0603651 | 0.0424662 | 0.155176 | 40 |
| rs10202845 | 2 | 42575820 | G | A | -0.0176134 | 0.00197265 | 4.30E-19 | 0.0635202 | 0.0571105 | 0.266038 | 80 |
| rs10222924 | 4 | 49016761 | G | A | -0.00954661 | 0.00135692 | 2.00E-12 | 0.0333173 | 0.0399204 | 0.403947 | 49 |
| rs1022523 | 1 | 176788394 | A | G | 0.0155647 | 0.00139049 | 4.40E-29 | 0.0481022 | 0.0382508 | 0.208555 | 125 |
| rs10248298 | 7 | 121963813 | A | C | 0.0113907 | 0.00128664 | 8.50E-19 | 0.060477 | 0.0356471 | 0.0897821 | 78 |
| rs10269774 | 7 | 92253972 | A | G | 0.0261792 | 0.00132369 | 4.70E-87 | -0.0881741 | 0.0378987 | 0.019988 | 391 |
| rs10282707 | 7 | 17911038 | T | C | 0.00794817 | 0.00126782 | 3.60E-10 | 0.0551764 | 0.0373769 | 0.139886 | 39 |
| rs10283100 | 8 | 120596023 | G | A | 0.0279041 | 0.00271462 | 8.70E-25 | 0.0184567 | 0.066459 | 0.78123 | 106 |
| rs10401784 | 19 | 3445721 | A | C | -0.0100036 | 0.00129734 | 1.30E-14 | 0.0357996 | 0.0356959 | 0.315907 | 59 |
| rs10412300 | 19 | 5006163 | G | C | -0.00755911 | 0.00136884 | 3.30E-08 | -0.00943122 | 0.0389985 | 0.808908 | 30 |
| rs10434434 | 4 | 54271611 | C | A | -0.0138752 | 0.00175181 | 2.40E-15 | -0.0166145 | 0.0556876 | 0.765434 | 63 |
| rs1043801 | 21 | 47552527 | A | G | 0.015078 | 0.00267794 | 1.80E-08 | -0.0167913 | 0.0735237 | 0.819351 | 32 |
| rs1047891 | 2 | 211540507 | A | C | 0.0168854 | 0.0013297 | 6.00E-37 | 0.0217729 | 0.0373493 | 0.559924 | 161 |
| rs1049193 | 12 | 53873844 | C | G | -0.0133965 | 0.00164953 | 4.60E-16 | -0.0146272 | 0.0553072 | 0.791416 | 66 |
| rs10498672 | 6 | 7797840 | G | C | 0.0103889 | 0.00162526 | 1.60E-10 | 0.0684131 | 0.0422911 | 0.105733 | 41 |
| rs10511111 | 3 | 80599757 | C | T | 0.00872376 | 0.00134157 | 7.90E-11 | 0.0404263 | 0.0375781 | 0.282019 | 42 |
| rs1064213 | 2 | 198950240 | A | G | 0.011481 | 0.00123828 | 1.80E-20 | -0.0215317 | 0.0356015 | 0.545314 | 86 |
| rs10748128 | 12 | 69827658 | T | G | 0.0123502 | 0.00130585 | 3.20E-21 | 0.0181806 | 0.0364252 | 0.617693 | 89 |
| rs10770705 | 12 | 20857467 | C | A | -0.00827299 | 0.00131169 | 2.80E-10 | 0.0475909 | 0.0378421 | 0.20853 | 40 |
| rs10773172 | 12 | 122939655 | A | G | 0.017489 | 0.00141898 | 6.60E-35 | -0.00648107 | 0.0446132 | 0.884496 | 152 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs10775348 | 16 | 88806348 | G | A | 0.0129738 | 0.00136464 | 2.00E-21 | -0.0203968 | 0.0380441 | 0.591864 | 90 |
| rs10775406 | 17 | 46197755 | G | A | -0.0095685 | 0.00145435 | 4.70E-11 | 0.0636561 | 0.0396073 | 0.108015 | 43 |
| rs10777860 | 12 | 97792792 | A | G | -0.0106875 | 0.00124243 | 7.80E-18 | -0.0185842 | 0.0350965 | 0.596447 | 74 |
| rs10780905 | 9 | 90841066 | A | G | -0.00987685 | 0.00127253 | 8.40E-15 | -0.037856 | 0.0351892 | 0.282023 | 60 |
| rs10803955 | 2 | 183228114 | G | A | -0.0109773 | 0.00123547 | 6.40E-19 | 0.0121266 | 0.0352481 | 0.730819 | 79 |
| rs10843397 | 12 | 29529523 | T | C | 0.0094145 | 0.00144658 | 7.60E-11 | -0.0379978 | 0.0408132 | 0.351844 | 42 |
| rs10861678 | 12 | 107319661 | A | G | -0.0105405 | 0.00140468 | 6.20E-14 | 0.0195518 | 0.0418541 | 0.640398 | 56 |
| rs10870597 | 13 | 114999636 | G | A | -0.0104552 | 0.00146679 | 1.00E-12 | 0.0584616 | 0.0412364 | 0.156273 | 51 |
| rs10881583 | 9 | 137267439 | C | T | -0.00914557 | 0.0014564 | 3.40E-10 | -0.0111453 | 0.0409253 | 0.785366 | 39 |
| rs10899736 | 7 | 50546925 | A | G | -0.0101688 | 0.00125107 | 4.40E-16 | 0.0607348 | 0.0356771 | 0.0886911 | 66 |
| rs10908289 | 1 | 36573612 | A | G | 0.0093427 | 0.0016163 | 7.50E-09 | -0.0193094 | 0.040216 | 0.631126 | 33 |
| rs10938397 | 4 | 45182527 | G | A | 0.011923 | 0.00125252 | 1.70E-21 | -0.0227716 | 0.0349568 | 0.514776 | 91 |
| rs10939792 | 4 | 18483405 | G | C | 0.00787025 | 0.00132886 | 3.20E-09 | -0.0428909 | 0.0400631 | 0.284356 | 35 |
| rs10979612 | 9 | 111687379 | C | T | 0.0186875 | 0.00238714 | 4.90E-15 | 0.0851676 | 0.0549337 | 0.121052 | 61 |
| rs10995366 | 10 | 52772113 | A | G | -0.00977289 | 0.00143974 | 1.10E-11 | 0.0114707 | 0.0399116 | 0.773804 | 46 |
| rs11001399 | 10 | 77221744 | C | A | -0.0111824 | 0.00125526 | 5.20E-19 | 0.016186 | 0.0351799 | 0.645451 | 79 |
| rs11014285 | 10 | 25178864 | A | G | 0.0191612 | 0.00169316 | 1.10E-29 | -0.04933 | 0.0580475 | 0.395425 | 128 |
| rs11018104 | 10 | 129248044 | A | T | 0.00708953 | 0.00127666 | 2.80E-08 | 0.0468104 | 0.037174 | 0.207949 | 31 |
| rs11021307 | 11 | 95501407 | T | C | 0.00693185 | 0.00125805 | 3.60E-08 | -0.00858604 | 0.0368451 | 0.815737 | 30 |
| rs11030112 | 11 | 27705188 | A | G | 0.0167262 | 0.00133184 | 3.60E-36 | -0.0186427 | 0.0371737 | 0.616016 | 158 |
| rs11042725 | 11 | 10325325 | A | C | -0.01174 | 0.00124104 | 3.10E-21 | 0.00812111 | 0.0348729 | 0.815856 | 89 |
| rs11049684 | 12 | 28665359 | T | C | -0.0106112 | 0.00135474 | 4.80E-15 | 0.0258776 | 0.0398457 | 0.51605 | 61 |
| rs11052457 | 12 | 33268956 | T | A | 0.0227855 | 0.00324324 | 2.10E-12 | -0.0226221 | 0.0909408 | 0.803549 | 49 |
| rs11065979 | 12 | 112059557 | T | C | -0.0134869 | 0.00125108 | 4.30E-27 | 0.0033256 | 0.0359636 | 0.926324 | 116 |
| rs11071182 | 15 | 55644676 | G | A | 0.0133796 | 0.00185999 | 6.30E-13 | -0.0332296 | 0.0555907 | 0.550003 | 52 |
| rs111365325 | 5 | 170865229 | T | C | -0.014456 | 0.00147276 | 9.60E-23 | -0.0376461 | 0.0431812 | 0.383308 | 96 |
| rs111391498 | 4 | 1341553 | G | A | -0.0258416 | 0.00291033 | 6.70E-19 | 0.151808 | 0.105105 | 0.148641 | 79 |
| rs11142700 | 9 | 73757155 | C | T | -0.00796008 | 0.00126675 | 3.30E-10 | -0.0364716 | 0.0370222 | 0.324561 | 39 |
| rs111598585 | 4 | 171635471 | T | C | -0.00858579 | 0.00153055 | 2.00E-08 | -0.0336755 | 0.0585001 | 0.564854 | 31 |
| rs111640872 | 19 | 30290357 | C | G | 0.014473 | 0.00132728 | 1.10E-27 | 0.0533701 | 0.0364838 | 0.14351 | 119 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs11196652 | 10 | 115949262 | A | G | 0.00873622 | 0.00145031 | 1.70E-09 | 0.0354409 | 0.0421323 | 0.400246 | 36 |
| rs11205354 | 1 | 150249101 | A | C | -0.00784514 | 0.00125214 | 3.70E-10 | -0.024312 | 0.0351713 | 0.489412 | 39 |
| rs11243202 | 6 | 7719065 | C | T | 0.0182828 | 0.00124355 | 6.30E-49 | 0.0600084 | 0.0349407 | 0.0858994 | 216 |
| rs11245450 | 10 | 126658075 | A | G | -0.0102519 | 0.00127016 | 7.00E-16 | 0.0647485 | 0.0350317 | 0.064561 | 65 |
| rs112544217 | 2 | 20222686 | T | C | -0.0268191 | 0.00430743 | 4.80E-10 | -0.245091 | 0.139892 | 0.0797737 | 39 |
| rs112560164 | 14 | 93112924 | A | G | 0.0131303 | 0.00158669 | 1.30E-16 | -0.00531134 | 0.0500786 | 0.915535 | 68 |
| rs112957890 | 14 | 36220876 | G | A | 0.00953556 | 0.00142409 | 2.10E-11 | -0.00280745 | 0.0419591 | 0.946654 | 45 |
| rs113619763 | 22 | 46399175 | T | A | 0.0167633 | 0.00257877 | 8.00E-11 | -0.219668 | 0.0782283 | 0.00498437 | 42 |
| rs113978196 | 15 | 75916965 | A | G | -0.00807811 | 0.0014337 | 1.80E-08 | -0.0366563 | 0.0389874 | 0.34711 | 32 |
| rs114177791 | 17 | 78555512 | T | G | 0.010111 | 0.00151731 | 2.70E-11 | -0.00326869 | 0.0440431 | 0.940839 | 44 |
| rs114949263 | 7 | 150498245 | C | T | -0.0131884 | 0.00197625 | 2.50E-11 | -0.061847 | 0.0644484 | 0.337238 | 45 |
| rs115179432 | 2 | 33348679 | G | A | -0.0220886 | 0.00240719 | 4.50E-20 | 0.0996266 | 0.0754585 | 0.18674 | 84 |
| rs11545482 | 2 | 70315987 | T | C | -0.0316202 | 0.00436594 | 4.40E-13 | -0.160154 | 0.248455 | 0.519186 | 52 |
| rs11578046 | 1 | 23425139 | A | G | -0.0129323 | 0.00131917 | 1.10E-22 | 0.00495056 | 0.0371294 | 0.89393 | 96 |
| rs11611651 | 12 | 133380790 | A | G | 0.016554 | 0.00219189 | 4.30E-14 | -0.0397532 | 0.0833576 | 0.633433 | 57 |
| rs11613704 | 12 | 980925 | A | C | 0.0158052 | 0.00155039 | 2.10E-24 | -0.0430707 | 0.0436423 | 0.323691 | 104 |
| rs116165844 | 20 | 62610556 | T | G | -0.0106113 | 0.00180724 | 4.30E-09 | -0.0360033 | 0.0550181 | 0.51286 | 34 |
| rs116211567 | 2 | 68425404 | C | T | -0.017786 | 0.00227419 | 5.20E-15 | -0.0735 | 0.0754867 | 0.330214 | 61 |
| rs116337081 | 2 | 183954625 | T | C | 0.0143385 | 0.00242956 | 3.60E-09 | 0.0266334 | 0.0818467 | 0.744874 | 35 |
| rs11648796 | 16 | 792190 | G | A | 0.0154492 | 0.00154403 | 1.40E-23 | 0.091547 | 0.0373066 | 0.0141312 | 100 |
| rs116817990 | 1 | 178989260 | G | A | -0.0200935 | 0.0034489 | 5.70E-09 | -0.238403 | 0.0978849 | 0.0148696 | 34 |
| rs11684531 | 2 | 219835489 | G | A | -0.0112558 | 0.00182251 | 6.60E-10 | -0.071084 | 0.0681823 | 0.297154 | 38 |
| rs1168768 | 12 | 66509650 | T | C | 0.0221258 | 0.00397341 | 2.60E-08 | -0.0217936 | 0.115778 | 0.850692 | 31 |
| rs11695471 | 2 | 25457708 | A | T | -0.0109759 | 0.00131813 | 8.30E-17 | -0.00128614 | 0.0376477 | 0.972747 | 69 |
| rs11709402 | 3 | 131551027 | G | A | 0.00995583 | 0.00138691 | 7.10E-13 | 0.060415 | 0.0394082 | 0.125261 | 52 |
| rs11712872 | 3 | 52835514 | A | G | 0.0168034 | 0.00193812 | 4.30E-18 | 0.0739246 | 0.0624323 | 0.236383 | 75 |
| rs117451679 | 12 | 17245591 | G | A | 0.0127194 | 0.00204565 | 5.00E-10 | -0.0564663 | 0.0528779 | 0.285583 | 39 |
| rs117543413 | 10 | 79543740 | T | C | -0.038249 | 0.00477995 | 1.20E-15 | 0.236022 | 0.148239 | 0.111345 | 64 |
| rs1176314 | 13 | 81221014 | G | T | -0.00742342 | 0.00125747 | 3.60E-09 | -0.0050062 | 0.0358431 | 0.888921 | 35 |
| rs11782103 | 8 | 120451323 | A | T | -0.0130083 | 0.00142985 | 9.20E-20 | -0.00820906 | 0.0446731 | 0.854203 | 83 |

| rs11785562 | 8 | 23391493 | A | G | 0.0119296 | 0.00156717 | 2.70E-14 | 0.0127322 | 0.0396601 | 0.748187 | 58 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs11794152 | 9 | 23345347 | G | A | 0.0103567 | 0.00126284 | 2.40E-16 | 0.0331043 | 0.0350618 | 0.345083 | 67 |
| rs1179905 | 6 | 90322922 | G | A | 0.0102663 | 0.00157064 | 6.30E-11 | 0.0592377 | 0.0462296 | 0.20006 | 43 |
| rs118173451 | 22 | 28356600 | C | T | -0.0291551 | 0.00501933 | 6.30E-09 | 0.136771 | 0.149219 | 0.359365 | 34 |
| rs1184893 | 12 | 122403811 | A | G | -0.011062 | 0.00150699 | 2.10E-13 | 0.0240677 | 0.0407101 | 0.554388 | 54 |
| rs11855017 | 15 | 42096146 | A | C | 0.0131106 | 0.00161542 | 4.80E-16 | 0.0641155 | 0.0518169 | 0.215958 | 66 |
| rs11880992 | 19 | 2176403 | A | G | 0.0139123 | 0.00126679 | 4.60E-28 | -0.000410434 | 0.03614 | 0.990939 | 121 |
| rs11925245 | 3 | 114183579 | G | A | -0.00989867 | 0.00162039 | 1.00E-09 | -0.0545842 | 0.0445232 | 0.220209 | 37 |
| rs11937249 | 4 | 110755321 | T | G | -0.00801288 | 0.00128883 | 5.10E-10 | -0.000595074 | 0.0356643 | 0.986688 | 39 |
| rs11997525 | 8 | 49401982 | A | T | 0.0153045 | 0.0016654 | 3.90E-20 | 0.00582485 | 0.0510476 | 0.909153 | 84 |
| rs12041740 | 1 | 11236524 | A | G | -0.0146673 | 0.00140844 | 2.10E-25 | 0.0402139 | 0.0389946 | 0.302415 | 108 |
| rs12047986 | 1 | 155043812 | G | A | -0.00769799 | 0.00123837 | 5.10E-10 | -0.074295 | 0.0363507 | 0.0409694 | 39 |
| rs12070699 | 1 | 190230408 | T | C | -0.00920501 | 0.00124653 | 1.50E-13 | 0.029295 | 0.0350084 | 0.402705 | 55 |
| rs12072845 | 1 | 214630757 | A | G | -0.0139667 | 0.00126632 | 2.80E-28 | -0.0735028 | 0.0370984 | 0.0475587 | 122 |
| rs12095997 | 1 | 51391845 | T | C | 0.0225202 | 0.00216716 | 2.70E-25 | -0.017207 | 0.0765545 | 0.82216 | 108 |
| rs12140153 | 1 | 62579891 | T | G | -0.0170566 | 0.00216969 | 3.80E-15 | -0.00531121 | 0.0658257 | 0.935692 | 62 |
| rs12156265 | 8 | 144848756 | A | G | 0.00816386 | 0.00126504 | 1.10E-10 | 0.0633912 | 0.0350515 | 0.0705261 | 42 |
| rs1218826 | 13 | 27995760 | G | A | 0.00914037 | 0.00132355 | 5.00E-12 | -0.0456559 | 0.0370635 | 0.218012 | 48 |
| rs12188627 | 5 | 60720682 | G | A | -0.0103674 | 0.00124023 | 6.30E-17 | -0.0603141 | 0.0349408 | 0.084316 | 70 |
| rs12209223 | 6 | 76164589 | A | C | 0.0150772 | 0.00206082 | 2.60E-13 | 0.0799724 | 0.0507789 | 0.115276 | 54 |
| rs1228024 | 11 | 47951353 | A | C | -0.0107876 | 0.00131283 | 2.10E-16 | -0.034932 | 0.0367387 | 0.341695 | 68 |
| rs12375196 | 7 | 103416541 | A | C | 0.0094694 | 0.00126298 | 6.50E-14 | -0.0828548 | 0.0350484 | 0.018078 | 56 |
| rs12427047 | 12 | 90213070 | T | C | -0.00969041 | 0.00144602 | 2.10E-11 | 0.0185304 | 0.0367282 | 0.613891 | 45 |
| rs1243872 | 9 | 35686407 | G | T | -0.00835096 | 0.00124871 | 2.30E-11 | -0.00672756 | 0.0349464 | 0.847342 | 45 |
| rs12533548 | 7 | 148660579 | G | A | 0.00814504 | 0.00130715 | 4.60E-10 | 0.00460863 | 0.0371913 | 0.901381 | 39 |
| rs12553221 | 9 | 37234008 | A | G | 0.00725561 | 0.00129666 | 2.20E-08 | 0.0810068 | 0.0361307 | 0.0249586 | 31 |
| rs1260326 | 2 | 27730940 | C | T | 0.0189187 | 0.00126353 | 1.10E-50 | 0.0131101 | 0.0365742 | 0.720006 | 224 |
| rs12657771 | 5 | 36787962 | A | G | -0.0134413 | 0.0012553 | 9.40E-27 | 0.0261722 | 0.0355184 | 0.461206 | 115 |
| rs12658452 | 5 | 87795877 | G | T | 0.0115406 | 0.00210744 | 4.30E-08 | -0.0164611 | 0.0565038 | 0.770801 | 30 |
| rs1266874 | 6 | 51779638 | G | A | 0.00837453 | 0.00129804 | 1.10E-10 | 0.0223766 | 0.0350997 | 0.523789 | 42 |

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|---|---|---|---|---|---|---|---|---|---|---|
| rs12713004 | 2 | 23896049 | G | A | 0.0171536 | 0.00138687 | 3.90E-35 | -0.00840444 | 0.0457631 | 0.854287 | 153 |
| rs12729817 | 1 | 218971896 | G | A | -0.00827638 | 0.00123705 | 2.20E-11 | -0.0430318 | 0.0348351 | 0.21672 | 45 |
| rs12731187 | 1 | 202013757 | T | C | -0.00776632 | 0.00130315 | 2.50E-09 | -0.029358 | 0.0359557 | 0.414211 | 36 |
| rs12764498 | 10 | 5042294 | C | T | -0.0154674 | 0.00194006 | 1.60E-15 | 0.0154905 | 0.0516931 | 0.764434 | 64 |
| rs12795042 | 11 | 133658168 | C | A | 0.00725447 | 0.00129746 | 2.30E-08 | -0.0237459 | 0.038485 | 0.537223 | 31 |
| rs12820906 | 12 | 123493123 | G | A | 0.011733 | 0.00144104 | 3.90E-16 | -0.0905029 | 0.0432207 | 0.0362627 | 66 |
| rs12879423 | 14 | 25927832 | G | A | 0.0141854 | 0.00133985 | 3.40E-26 | 0.0156097 | 0.0362246 | 0.666532 | 112 |
| rs12889702 | 14 | 42894143 | C | A | 0.00923529 | 0.00134415 | 6.40E-12 | 0.0161811 | 0.0382895 | 0.672588 | 47 |
| rs12906197 | 15 | 38492199 | T | C | -0.0108769 | 0.0012676 | 9.40E-18 | 0.0475786 | 0.0350188 | 0.174255 | 74 |
| rs12907384 | 15 | 86276000 | C | T | -0.0120256 | 0.00124566 | 4.70E-22 | 0.0394935 | 0.0350173 | 0.259392 | 93 |
| rs1296328 | 4 | 137083193 | C | A | -0.00868103 | 0.00125464 | 4.50E-12 | 0.0108221 | 0.0348768 | 0.756336 | 48 |
| rs12967135 | 18 | 57849023 | A | G | 0.0432949 | 0.00147115 | 2.30E-190 | -0.145523 | 0.0459373 | 0.00153568 | 866 |
| rs13014796 | 2 | 200321050 | A | G | -0.0119259 | 0.00165731 | 6.20E-13 | -0.00300356 | 0.0508923 | 0.952938 | 52 |
| rs13043303 | 20 | 51091385 | A | G | -0.0186173 | 0.00160988 | 6.20E-31 | -0.0190528 | 0.0482252 | 0.692784 | 134 |
| rs13099930 | 3 | 171129049 | G | A | -0.00835713 | 0.00131413 | 2.00E-10 | -0.0511393 | 0.0367792 | 0.164396 | 40 |
| rs13240065 | 7 | 73015369 | A | G | 0.0179792 | 0.0018528 | 2.90E-22 | 0.0172484 | 0.052466 | 0.742342 | 94 |
| rs13271368 | 8 | 126506140 | T | C | -0.0147599 | 0.00148017 | 2.00E-23 | -0.0243419 | 0.0384757 | 0.526959 | 99 |
| rs13272451 | 8 | 8886183 | T | G | 0.00934629 | 0.00125324 | 8.80E-14 | -0.0232208 | 0.0350706 | 0.507897 | 56 |
| rs13392079 | 2 | 169119178 | C | T | -0.00849447 | 0.00144153 | 3.80E-09 | -0.0503315 | 0.0377853 | 0.182848 | 35 |
| rs13430869 | 2 | 218146818 | T | G | 0.0135039 | 0.00141494 | 1.40E-21 | 0.00430353 | 0.0362991 | 0.905626 | 91 |
| rs1351394 | 12 | 66351826 | C | T | -0.0257843 | 0.00124023 | 5.30E-96 | 0.0994598 | 0.0346442 | 0.00409317 | 432 |
| rs1374370 | 2 | 85818273 | A | G | 0.0101875 | 0.00134413 | 3.50E-14 | 0.0127314 | 0.0410451 | 0.756423 | 57 |
| rs1407031 | 20 | 6542634 | T | C | -0.0082111 | 0.00127585 | 1.20E-10 | 0.0119465 | 0.0353142 | 0.735143 | 41 |
| rs1412234 | 9 | 28410683 | C | T | 0.0108657 | 0.00132697 | 2.60E-16 | -0.0667522 | 0.0358996 | 0.062968 | 67 |
| rs1413816 | 6 | 18896557 | T | C | 0.00898874 | 0.00129419 | 3.80E-12 | -0.0454566 | 0.0393162 | 0.247608 | 48 |
| rs1418433 | 6 | 44752568 | A | G | -0.00851172 | 0.00125815 | 1.30E-11 | 0.0114437 | 0.0354576 | 0.746891 | 46 |
| rs1421035 | 10 | 131136401 | T | C | 0.00758466 | 0.00131481 | 8.00E-09 | 0.0947777 | 0.035929 | 0.00834161 | 33 |
| rs1422189 | 5 | 88042019 | A | G | 0.0123138 | 0.0018741 | 5.00E-11 | -0.0884907 | 0.0500706 | 0.0771756 | 43 |
| rs143384 | 20 | 34025756 | G | A | 0.0353574 | 0.00126635 | 1.50E-171 | 0.021595 | 0.0350626 | 0.537961 | 780 |
| rs145594985 | 7 | 76710205 | T | C | -0.0121633 | 0.00179542 | 1.20E-11 | 0.0230343 | 0.0399551 | 0.564274 | 46 |

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|---|---|---|---|---|---|---|---|---|---|---|
| rs146851424 | 13 | 50377910 | C | A | 0.0596754 | 0.0043141 | 1.60E-43 | -0.0782701 | 0.134774 | 0.561409 | 191 |
| rs147110934 | 19 | 55993436 | T | G | -0.0315596 | 0.00403968 | 5.60E-15 | -0.0215221 | 0.233212 | 0.926471 | 61 |
| rs148662000 | 1 | 228721530 | T | G | -0.0150934 | 0.00254491 | 3.00E-09 | 0.172744 | 0.083647 | 0.0389081 | 35 |
| rs1521624 | 15 | 79412399 | A | C | -0.0090914 | 0.00125288 | 4.00E-13 | -0.0183925 | 0.0350536 | 0.599794 | 53 |
| rs1542224 | 2 | 223963874 | C | T | 0.0127661 | 0.00137825 | 2.00E-20 | 0.0230739 | 0.03943 | 0.558423 | 86 |
| rs1573891 | 15 | 99186488 | C | G | -0.0220369 | 0.00171347 | 7.50E-38 | -0.0468875 | 0.0680441 | 0.490776 | 165 |
| rs1582931 | 5 | 122657199 | A | G | -0.0187707 | 0.00125234 | 8.70E-51 | 0.0342579 | 0.0349337 | 0.326762 | 225 |
| rs1657222 | 10 | 34837139 | A | G | 0.0081344 | 0.00127422 | 1.70E-10 | -0.0547335 | 0.0349645 | 0.117488 | 41 |
| rs16844418 | 4 | 3471754 | C | T | -0.0124851 | 0.00177258 | 1.90E-12 | 0.0758484 | 0.0530258 | 0.152601 | 50 |
| rs16916881 | 8 | 95566270 | A | C | -0.010441 | 0.00146179 | 9.20E-13 | 0.0588115 | 0.0360086 | 0.102414 | 51 |
| rs16942324 | 15 | 89383854 | A | C | -0.0372733 | 0.00383077 | 2.20E-22 | -0.248678 | 0.16419 | 0.129881 | 95 |
| rs17011108 | 4 | 86800806 | C | T | 0.00757039 | 0.00135557 | 2.30E-08 | 0.0035546 | 0.0390809 | 0.927529 | 31 |
| rs17112250 | 10 | 98732640 | G | A | -0.0162005 | 0.00284368 | 1.20E-08 | -0.0473319 | 0.102426 | 0.644005 | 32 |
| rs17115481 | 5 | 153358226 | A | G | -0.00900244 | 0.00139958 | 1.30E-10 | 0.0710967 | 0.0380975 | 0.0620169 | 41 |
| rs17246129 | 2 | 227259964 | A | G | 0.0125206 | 0.00134623 | 1.40E-20 | -0.0819461 | 0.0392082 | 0.0366151 | 86 |
| rs17277008 | 1 | 172105162 | C | T | 0.0143582 | 0.00133266 | 4.60E-27 | -0.00469347 | 0.0398468 | 0.906236 | 116 |
| rs17363646 | 1 | 86823503 | G | A | 0.0124299 | 0.00180347 | 5.50E-12 | 0.0200154 | 0.0401679 | 0.618278 | 48 |
| rs17400325 | 2 | 178565913 | C | T | 0.0215133 | 0.00309727 | 3.80E-12 | -0.0242944 | 0.125736 | 0.846789 | 48 |
| rs17556750 | 4 | 82155568 | A | C | 0.0118955 | 0.00136906 | 3.70E-18 | -0.00136937 | 0.0364079 | 0.969997 | 75 |
| rs177252 | 5 | 134343799 | G | A | -0.00961251 | 0.0013462 | 9.30E-13 | 0.0227306 | 0.0380729 | 0.550488 | 51 |
| rs1780672 | 20 | 35755818 | C | T | 0.0126101 | 0.00159059 | 2.20E-15 | -0.0371198 | 0.0381034 | 0.329964 | 63 |
| rs17828687 | 8 | 73454767 | A | C | -0.00905074 | 0.0012601 | 6.80E-13 | -0.0499243 | 0.0355936 | 0.16073 | 52 |
| rs1805165 | 2 | 88874891 | A | C | -0.0100757 | 0.00137619 | 2.50E-13 | 0.0166822 | 0.0368394 | 0.650667 | 54 |
| rs1813212 | 11 | 89301382 | G | A | -0.0085927 | 0.00125205 | 6.70E-12 | -0.0295437 | 0.0353147 | 0.402826 | 47 |
| rs182224 | 5 | 67316442 | T | C | 0.0127292 | 0.00217186 | 4.60E-09 | 0.0738541 | 0.0538869 | 0.170519 | 34 |
| rs1841738 | 4 | 88557753 | G | A | -0.011183 | 0.00124786 | 3.20E-19 | 0.050516 | 0.0358124 | 0.15837 | 80 |
| rs1846221 | 10 | 4667302 | C | G | -0.00950453 | 0.00165688 | 9.70E-09 | 0.00143702 | 0.0458679 | 0.975007 | 33 |
| rs1910466 | 3 | 147086268 | C | T | -0.00763093 | 0.0012469 | 9.40E-10 | 0.0428954 | 0.0350732 | 0.22132 | 37 |
| rs1924929 | 13 | 78447374 | G | A | 0.0153256 | 0.00148903 | 7.60E-25 | -0.0568027 | 0.0454212 | 0.211089 | 106 |
| rs1927635 | 9 | 16461905 | C | T | 0.00907285 | 0.00131385 | 5.00E-12 | -0.000130223 | 0.0351347 | 0.997043 | 48 |

| rs1928850 | 9 | 16765520 | T | A | 0.0142336 | 0.00232983 | 1.00E-09 | -0.0969233 | 0.0623153 | 0.119858 | 37 |
| rs1941697 | 18 | 31251276 | A | G | 0.0076369 | 0.00125035 | 1.00E-09 | -0.0131055 | 0.0349953 | 0.708039 | 37 |
| rs2005172 | 17 | 61996255 | C | A | 0.0226087 | 0.00131036 | 1.00E-66 | -0.0340178 | 0.0354804 | 0.337671 | 298 |
| rs2015561 | 17 | 38593294 | G | A | -0.0116512 | 0.0012569 | 1.90E-20 | -0.00175004 | 0.035288 | 0.960447 | 86 |
| rs2071286 | 6 | 32179896 | T | C | -0.0209004 | 0.00159773 | 4.20E-39 | 0.0296158 | 0.0404698 | 0.464291 | 171 |
| rs2077218 | 10 | 96071561 | A | G | -0.0142359 | 0.00146371 | 2.30E-22 | 0.100747 | 0.0470793 | 0.0323594 | 95 |
| rs2101975 | 4 | 106216667 | G | A | -0.0163675 | 0.00125533 | 7.40E-39 | -0.00234998 | 0.0351985 | 0.94677 | 170 |
| rs2104449 | 1 | 97082532 | T | G | 0.0106653 | 0.00137676 | 9.40E-15 | -0.111108 | 0.0452536 | 0.0140789 | 60 |
| rs2122823 | 7 | 25939161 | T | C | 0.0103221 | 0.00153938 | 2.00E-11 | 0.0206515 | 0.0407645 | 0.612432 | 45 |
| rs213997 | 6 | 166367429 | A | G | 0.00772781 | 0.00132866 | 6.00E-09 | -0.0477024 | 0.0351684 | 0.174971 | 34 |
| rs2140046 | 2 | 169706079 | C | T | -0.0117218 | 0.00128653 | 8.20E-20 | 0.0566592 | 0.0355075 | 0.110557 | 83 |
| rs2197563 | 2 | 233687080 | A | G | 0.0102764 | 0.00126196 | 3.80E-16 | -0.0280856 | 0.0393994 | 0.475943 | 66 |
| rs2225226 | 13 | 51127270 | T | C | -0.0298272 | 0.00151548 | 3.10E-86 | -0.00962115 | 0.040135 | 0.810547 | 387 |
| rs2229840 | 12 | 124826462 | T | C | 0.0204301 | 0.00169246 | 1.50E-33 | -0.151483 | 0.0507703 | 0.00284787 | 146 |
| rs224048 | 10 | 64491549 | A | G | -0.00734282 | 0.00124616 | 3.80E-09 | 0.0419005 | 0.0348297 | 0.228972 | 35 |
| rs2240735 | 16 | 4027605 | T | C | 0.0163224 | 0.00142919 | 3.30E-30 | 0.00550154 | 0.0389502 | 0.887676 | 130 |
| rs2252720 | 20 | 21223663 | T | C | -0.0135325 | 0.00133737 | 4.60E-24 | 0.0293973 | 0.0389755 | 0.450699 | 102 |
| rs2252909 | 17 | 2278609 | T | C | -0.00746424 | 0.00133213 | 2.10E-08 | 0.00743745 | 0.0352603 | 0.832942 | 31 |
| rs2265309 | 10 | 104487871 | C | T | -0.0124368 | 0.00124386 | 1.50E-23 | -0.0181505 | 0.0350328 | 0.60439 | 100 |
| rs2270894 | 3 | 9975386 | G | C | -0.0174426 | 0.00159875 | 1.00E-27 | 0.017626 | 0.0396826 | 0.656918 | 119 |
| rs2274116 | 9 | 139094805 | T | C | -0.00808943 | 0.00131768 | 8.30E-10 | 0.0145637 | 0.0371472 | 0.695018 | 38 |
| rs2281175 | 1 | 1665702 | C | T | 0.0114351 | 0.00132557 | 6.30E-18 | -0.031204 | 0.0356311 | 0.381165 | 74 |
| rs2287547 | 12 | 108924341 | C | T | 0.00945452 | 0.00165819 | 1.20E-08 | -0.0550369 | 0.0544868 | 0.31245 | 33 |
| rs2293176 | 7 | 140244627 | A | G | 0.00875811 | 0.00131602 | 2.80E-11 | -0.00404517 | 0.0360131 | 0.910566 | 44 |
| rs2296316 | 14 | 65520246 | C | T | -0.0104049 | 0.00125664 | 1.20E-16 | 0.0313827 | 0.0348815 | 0.368282 | 69 |
| rs2305758 | 19 | 17163661 | T | C | 0.00811563 | 0.00138215 | 4.30E-09 | -0.0264117 | 0.0394853 | 0.503559 | 34 |
| rs2307111 | 5 | 75003678 | C | T | -0.0164439 | 0.00126894 | 2.10E-38 | 0.0314777 | 0.0353928 | 0.373797 | 168 |
| rs236587 | 17 | 68203915 | C | T | -0.00829277 | 0.001427 | 6.20E-09 | -0.0213054 | 0.0383457 | 0.578476 | 34 |
| rs237738 | 20 | 47904920 | C | T | 0.00942389 | 0.00162928 | 7.30E-09 | 0.0050216 | 0.0462461 | 0.913532 | 33 |
| rs240113 | 6 | 101058886 | A | G | -0.00802404 | 0.00124317 | 1.10E-10 | -0.0389233 | 0.0350406 | 0.266652 | 42 |

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|---|---|---|---|---|---|---|---|---|---|---|
| rs2427320 | 20 | 60976723 | G | A | -0.00822896 | 0.00147567 | 2.50E-08 | -0.0129155 | 0.0469454 | 0.783226 | 31 |
| rs244711 | 5 | 176509193 | T | C | 0.0167728 | 0.00143325 | 1.20E-31 | -0.033104 | 0.0378212 | 0.381423 | 137 |
| rs247008 | 5 | 131447104 | G | A | 0.0125327 | 0.0013272 | 3.60E-21 | 0.0528614 | 0.0358574 | 0.140424 | 89 |
| rs2521349 | 17 | 67503501 | A | G | 0.00773457 | 0.00128156 | 1.60E-09 | 0.0349772 | 0.035365 | 0.322646 | 36 |
| rs2533879 | 7 | 2859847 | A | G | -0.0205892 | 0.00135425 | 3.40E-52 | -0.0475026 | 0.0362312 | 0.189825 | 231 |
| rs254963 | 5 | 171224403 | G | A | -0.00862516 | 0.00125629 | 6.60E-12 | 0.00963425 | 0.0350252 | 0.783266 | 47 |
| rs2568958 | 1 | 72765116 | A | G | 0.00949332 | 0.00126246 | 5.50E-14 | 0.0442157 | 0.0364165 | 0.224684 | 57 |
| rs2578557 | 5 | 5473063 | T | C | -0.00945359 | 0.00129484 | 2.90E-13 | 0.0452279 | 0.0351488 | 0.198179 | 53 |
| rs25849 | 16 | 2265071 | G | C | 0.0168894 | 0.00137667 | 1.30E-34 | -0.0198272 | 0.0361494 | 0.583363 | 151 |
| rs2611732 | 5 | 95855576 | G | A | 0.00774668 | 0.00126568 | 9.30E-10 | -0.0205897 | 0.0378877 | 0.586827 | 37 |
| rs2615075 | 1 | 225934295 | G | A | 0.00980657 | 0.00128182 | 2.00E-14 | -0.0257442 | 0.0359926 | 0.474446 | 59 |
| rs2663125 | 15 | 99563891 | C | T | -0.0089318 | 0.00134618 | 3.20E-11 | -0.00385415 | 0.041 | 0.925106 | 44 |
| rs2678204 | 1 | 201800511 | G | T | 0.0120702 | 0.00130586 | 2.40E-20 | 0.0462214 | 0.0380149 | 0.224032 | 85 |
| rs2721938 | 8 | 116635611 | T | C | -0.0121334 | 0.00127027 | 1.30E-21 | -0.0592004 | 0.0385515 | 0.124631 | 91 |
| rs2726036 | 16 | 28347140 | C | A | 0.0119051 | 0.00127188 | 8.00E-21 | -0.0401749 | 0.0352087 | 0.253848 | 88 |
| rs2740761 | 7 | 55255986 | T | C | 0.00872088 | 0.00154571 | 1.70E-08 | -0.0425165 | 0.0442107 | 0.33621 | 32 |
| rs2744956 | 6 | 34618937 | C | T | 0.0377723 | 0.00178615 | 2.90E-99 | -0.149032 | 0.04379 | 0.000665672 | 447 |
| rs2785070 | 10 | 89774578 | C | T | 0.00725874 | 0.00125449 | 7.20E-09 | 0.0244464 | 0.035288 | 0.488454 | 33 |
| rs2789366 | 1 | 235508270 | A | G | -0.00918806 | 0.00129964 | 1.60E-12 | 0.00171575 | 0.0360744 | 0.962066 | 50 |
| rs281385 | 19 | 49217261 | G | A | -0.0122059 | 0.00191124 | 1.70E-10 | 0.0410331 | 0.0461367 | 0.373798 | 41 |
| rs284315 | 1 | 10734800 | G | A | -0.00768365 | 0.00123489 | 4.90E-10 | 0.0207189 | 0.0358732 | 0.563562 | 39 |
| rs284662 | 19 | 41932275 | C | T | -0.0093985 | 0.001281 | 2.20E-13 | 0.0262662 | 0.0365435 | 0.472287 | 54 |
| rs28620532 | 9 | 98216876 | G | A | 0.0181879 | 0.00130855 | 6.40E-44 | 0.0259296 | 0.0361946 | 0.473746 | 193 |
| rs2866720 | 7 | 70106310 | T | C | 0.00842492 | 0.00128349 | 5.20E-11 | 0.0625277 | 0.0368013 | 0.0893079 | 43 |
| rs2884345 | 14 | 53323211 | A | G | -0.00769008 | 0.00137298 | 2.10E-08 | -0.0763455 | 0.0383916 | 0.0467455 | 31 |
| rs2885697 | 1 | 41544279 | T | G | -0.0188539 | 0.00130925 | 5.10E-47 | -0.0702452 | 0.036865 | 0.0567192 | 207 |
| rs2897968 | 12 | 46763686 | A | G | 0.0156061 | 0.00127253 | 1.40E-34 | 0.00296795 | 0.0355907 | 0.933541 | 150 |
| rs2900208 | 12 | 11878464 | A | C | 0.0139851 | 0.00129881 | 4.90E-27 | 0.0402902 | 0.0360843 | 0.264184 | 116 |
| rs291979 | 10 | 121129797 | A | G | 0.010422 | 0.0014791 | 1.80E-12 | 0.046764 | 0.0471673 | 0.321467 | 50 |
| rs2920974 | 2 | 55537126 | C | A | 0.00715414 | 0.00125144 | 1.10E-08 | 0.062198 | 0.0377635 | 0.0995497 | 33 |

| rs2952615 | 5 | 112138888 | C | G | -0.0119352 | 0.00127671 | 8.90E-21 | -0.0223069 | 0.0355062 | 0.529838 | 87 |
| rs2979649 | 8 | 6315856 | G | A | 0.00970314 | 0.00164465 | 3.60E-09 | 0.0278711 | 0.054272 | 0.607571 | 35 |
| rs2993531 | 1 | 212190116 | C | A | 0.00917159 | 0.00125604 | 2.80E-13 | 0.108061 | 0.0363195 | 0.00292705 | 53 |
| rs29946 | 19 | 34299865 | C | T | 0.0074696 | 0.00127366 | 4.50E-09 | 0.00263162 | 0.0350862 | 0.940211 | 34 |
| rs310796 | 12 | 77453226 | T | G | 0.0109664 | 0.00133483 | 2.10E-16 | -0.000512929 | 0.0397602 | 0.989707 | 67 |
| rs3110496 | 17 | 27917771 | G | A | 0.00879816 | 0.00133876 | 5.00E-11 | -0.0279945 | 0.0358837 | 0.435305 | 43 |
| rs3116201 | 2 | 233074205 | A | G | -0.0179578 | 0.00208476 | 7.10E-18 | 0.00717894 | 0.082429 | 0.930598 | 74 |
| rs3212260 | 14 | 24804088 | T | A | 0.0130967 | 0.00142357 | 3.60E-20 | -0.0260731 | 0.0422476 | 0.537136 | 85 |
| rs332162 | 10 | 28888889 | C | A | -0.00959859 | 0.00154953 | 5.80E-10 | -0.0898935 | 0.0453766 | 0.047585 | 38 |
| rs338361 | 15 | 68171116 | C | T | 0.00949412 | 0.00136821 | 3.90E-12 | -0.0193242 | 0.0416687 | 0.642819 | 48 |
| rs33967909 | 5 | 137603293 | A | G | 0.0127859 | 0.00150689 | 2.20E-17 | 0.00725249 | 0.0392765 | 0.853502 | 72 |
| rs33973388 | 18 | 46611842 | T | G | 0.0123243 | 0.00125565 | 9.70E-23 | 0.0173912 | 0.0379783 | 0.647006 | 96 |
| rs34017457 | 16 | 67166731 | A | G | 0.0487755 | 0.00747734 | 6.90E-11 | 0.203997 | 0.235088 | 0.385533 | 43 |
| rs34055910 | 17 | 64460104 | G | A | -0.00750495 | 0.00128412 | 5.10E-09 | 0.0201381 | 0.0349751 | 0.564761 | 34 |
| rs34227797 | 4 | 159982551 | C | G | 0.00820742 | 0.00134082 | 9.30E-10 | -0.0221295 | 0.0377501 | 0.557735 | 37 |
| rs34345560 | 11 | 69081998 | A | G | 0.0089958 | 0.00157959 | 1.20E-08 | 0.0645533 | 0.0398851 | 0.105559 | 32 |
| rs34517439 | 1 | 78450517 | A | C | 0.0372268 | 0.00191453 | 3.30E-84 | -0.0558529 | 0.0528789 | 0.290857 | 378 |
| rs34693680 | 3 | 98665549 | T | C | 0.0144168 | 0.00182938 | 3.30E-15 | -0.0517608 | 0.0535242 | 0.333517 | 62 |
| rs34776209 | 7 | 23513093 | T | C | -0.0171153 | 0.00144079 | 1.50E-32 | 0.0630926 | 0.0429982 | 0.142286 | 141 |
| rs34825238 | 12 | 103328352 | T | G | 0.00889112 | 0.00144272 | 7.10E-10 | -0.0283672 | 0.0443805 | 0.522705 | 38 |
| rs34831515 | 19 | 17275777 | T | C | -0.00840293 | 0.00147768 | 1.30E-08 | -0.0182502 | 0.0373528 | 0.625132 | 32 |
| rs34848742 | 4 | 123828042 | G | T | -0.0147544 | 0.00151652 | 2.30E-22 | 0.0393776 | 0.045524 | 0.387047 | 95 |
| rs34879158 | 20 | 32300634 | C | A | -0.0215459 | 0.00141463 | 2.20E-52 | -0.0196506 | 0.0412143 | 0.633512 | 232 |
| rs35050648 | 19 | 46991243 | T | G | 0.00828655 | 0.00146534 | 1.60E-08 | 0.0820655 | 0.0403845 | 0.0421434 | 32 |
| rs35251247 | 11 | 43878459 | A | G | 0.0108083 | 0.00137513 | 3.80E-15 | 0.035539 | 0.0380156 | 0.349864 | 62 |
| rs35506085 | 11 | 2165576 | A | G | -0.0198424 | 0.00161208 | 8.10E-35 | -0.0139154 | 0.0465157 | 0.764821 | 152 |
| rs35612982 | 6 | 20682622 | C | T | -0.00924457 | 0.00161745 | 1.10E-08 | 0.0414415 | 0.045709 | 0.364598 | 33 |
| rs35651070 | 2 | 121613739 | A | G | -0.00950434 | 0.00165815 | 9.90E-09 | -0.0726539 | 0.0484524 | 0.133747 | 33 |
| rs35665085 | 22 | 17625915 | A | G | -0.0165925 | 0.00271032 | 9.20E-10 | 0.0772054 | 0.0785005 | 0.325361 | 37 |
| rs357486 | 3 | 153885503 | C | T | 0.0100388 | 0.00124304 | 6.70E-16 | 0.000877064 | 0.0352715 | 0.980162 | 65 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs35756741 | 12 | 12868701 | T | C | -0.0158932 | 0.00215406 | 1.60E-13 | -0.0208718 | 0.0576843 | 0.71748 | 54 |
| rs35874463 | 15 | 67457698 | G | A | 0.0181577 | 0.00266581 | 9.70E-12 | 0.135643 | 0.0881806 | 0.12399 | 46 |
| rs36000545 | 17 | 79093822 | G | A | -0.0165565 | 0.00128804 | 8.20E-38 | 0.0461093 | 0.0372801 | 0.216149 | 165 |
| rs365352 | 5 | 77401152 | A | G | -0.0147919 | 0.00143981 | 9.30E-25 | 0.0511558 | 0.045188 | 0.257607 | 106 |
| rs3730071 | 12 | 49168798 | A | C | -0.0227859 | 0.00362243 | 3.20E-10 | 0.0420564 | 0.177172 | 0.812365 | 40 |
| rs3734254 | 6 | 35395010 | T | C | 0.0163806 | 0.00152073 | 4.70E-27 | -0.000989617 | 0.0607612 | 0.987005 | 116 |
| rs3751866 | 16 | 84771304 | C | T | -0.00812014 | 0.00144366 | 1.90E-08 | 0.00675578 | 0.0409179 | 0.868861 | 32 |
| rs3772051 | 2 | 241672904 | A | G | -0.00860826 | 0.00147954 | 5.90E-09 | -0.0263943 | 0.0551057 | 0.631955 | 34 |
| rs3782232 | 12 | 57116249 | A | G | -0.020292 | 0.00241514 | 4.40E-17 | 0.00581042 | 0.0635607 | 0.927163 | 71 |
| rs3809569 | 15 | 66999828 | G | A | 0.0141505 | 0.00145343 | 2.10E-22 | 0.0511193 | 0.0419009 | 0.222463 | 95 |
| rs3810291 | 19 | 47569003 | A | G | 0.016955 | 0.00132769 | 2.40E-37 | 0.0307073 | 0.0360138 | 0.39385 | 163 |
| rs3822742 | 5 | 139059017 | A | C | 0.0134346 | 0.00128672 | 1.60E-25 | 0.0244542 | 0.0373169 | 0.512267 | 109 |
| rs3827910 | 14 | 21548158 | G | A | -0.0107741 | 0.00146479 | 1.90E-13 | 0.0569544 | 0.0477127 | 0.232598 | 54 |
| rs3843750 | 19 | 10748073 | G | C | -0.0132882 | 0.001319 | 7.20E-24 | -0.00608443 | 0.038889 | 0.875673 | 101 |
| rs3853252 | 6 | 152170247 | A | G | 0.0152946 | 0.00124887 | 1.70E-34 | 0.0380967 | 0.0355475 | 0.28385 | 150 |
| rs3925 | 8 | 38281658 | A | G | -0.0107291 | 0.00144625 | 1.20E-13 | -0.0322632 | 0.0458972 | 0.48209 | 55 |
| rs41271299 | 6 | 19839415 | T | C | 0.0418672 | 0.00280542 | 2.30E-50 | 0.05511 | 0.135685 | 0.684625 | 223 |
| rs41311445 | 22 | 42070374 | C | A | -0.0243571 | 0.00212069 | 1.60E-30 | -0.0458521 | 0.0509962 | 0.368584 | 132 |
| rs4132132 | 4 | 31001301 | C | T | 0.00871008 | 0.00125989 | 4.70E-12 | 0.0208117 | 0.035517 | 0.5579 | 48 |
| rs41458449 | 2 | 46929951 | C | G | -0.0106184 | 0.0017678 | 1.90E-09 | 0.0819988 | 0.0450082 | 0.0684747 | 36 |
| rs4240326 | 4 | 145839264 | G | A | -0.0212336 | 0.0012456 | 3.70E-65 | 0.0373077 | 0.03501 | 0.286591 | 291 |
| rs4268495 | 11 | 28645341 | C | G | -0.00858042 | 0.00128273 | 2.20E-11 | 0.0792829 | 0.0361427 | 0.0282638 | 45 |
| rs4282339 | 5 | 168256240 | A | G | -0.0189216 | 0.00152518 | 2.40E-35 | -0.0512441 | 0.0444279 | 0.248737 | 154 |
| rs4369779 | 18 | 20735408 | C | T | 0.0260054 | 0.0015236 | 2.60E-65 | -0.0267343 | 0.0418052 | 0.5225 | 291 |
| rs4439140 | 8 | 23113908 | A | G | -0.00849547 | 0.00129099 | 4.70E-11 | 0.00978808 | 0.0357908 | 0.784484 | 43 |
| rs4477562 | 13 | 54104968 | T | C | 0.0173654 | 0.00187416 | 1.90E-20 | -0.0787391 | 0.0502884 | 0.117407 | 86 |
| rs4504126 | 3 | 33600582 | C | A | 0.0250406 | 0.00379875 | 4.30E-11 | -0.0180517 | 0.14513 | 0.901012 | 43 |
| rs4525525 | 17 | 1866892 | T | G | -0.00935813 | 0.00142939 | 5.90E-11 | 0.0097637 | 0.0404844 | 0.809422 | 43 |
| rs4567604 | 13 | 59204270 | T | G | -0.00925934 | 0.00158373 | 5.00E-09 | 0.0589372 | 0.0463921 | 0.203937 | 34 |
| rs4635681 | 3 | 152310614 | G | A | 0.0109977 | 0.00170574 | 1.10E-10 | -0.0677295 | 0.0442679 | 0.126019 | 42 |

| rs4648626 | 1 | 2200390 | A | C | 0.00848361 | 0.00124402 | 9.10E-12 | 0.0689498 | 0.0352808 | 0.0506641 | 47 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs4676442 | 2 | 241740907 | C | T | 0.00742668 | 0.00129244 | 9.10E-09 | 0.093338 | 0.0351183 | 0.00786484 | 33 |
| rs4788218 | 16 | 30055750 | C | T | 0.0217913 | 0.00126829 | 3.60E-66 | -0.044389 | 0.0362328 | 0.220536 | 295 |
| rs4795318 | 17 | 36949053 | T | C | 0.00893606 | 0.00124512 | 7.10E-13 | 0.0330129 | 0.0352569 | 0.349092 | 52 |
| rs4800670 | 18 | 23415263 | C | G | -0.00717007 | 0.00128248 | 2.30E-08 | -0.0546273 | 0.0357029 | 0.126003 | 31 |
| rs4819021 | 21 | 46466927 | C | T | -0.00778876 | 0.0012602 | 6.40E-10 | -0.04534 | 0.0349231 | 0.194191 | 38 |
| rs4821940 | 22 | 40659573 | C | T | -0.00699949 | 0.00125551 | 2.50E-08 | 0.0632007 | 0.0350033 | 0.0709856 | 31 |
| rs485554 | 3 | 172137343 | C | G | 0.0171307 | 0.0013389 | 1.80E-37 | -0.00497436 | 0.0370622 | 0.893231 | 164 |
| rs4858940 | 3 | 88254820 | C | T | 0.016122 | 0.00194633 | 1.20E-16 | -0.0667996 | 0.0578659 | 0.248341 | 69 |
| rs4865956 | 5 | 54882505 | A | T | -0.0120021 | 0.00135296 | 7.30E-19 | 0.00437662 | 0.0386215 | 0.909776 | 79 |
| rs4899012 | 14 | 61003889 | C | G | -0.0214569 | 0.00127368 | 1.10E-63 | -0.00465187 | 0.0384446 | 0.903689 | 284 |
| rs490535 | 20 | 3001343 | T | C | -0.00742005 | 0.00131354 | 1.60E-08 | -0.0218801 | 0.0368675 | 0.552861 | 32 |
| rs4906203 | 14 | 102928991 | T | C | -0.00928957 | 0.00146932 | 2.60E-10 | 0.00509225 | 0.0393794 | 0.89711 | 40 |
| rs4926542 | 1 | 50263773 | T | C | -0.00979446 | 0.00133689 | 2.40E-13 | 0.0162769 | 0.0359645 | 0.650849 | 54 |
| rs4968799 | 17 | 68158831 | T | A | -0.0184513 | 0.00196938 | 7.30E-21 | -0.0501108 | 0.0595122 | 0.399773 | 88 |
| rs4974223 | 3 | 56602088 | T | C | 0.0162546 | 0.00210098 | 1.00E-14 | -0.0146757 | 0.0541881 | 0.786524 | 60 |
| rs4980067 | 10 | 81136129 | A | C | -0.0112045 | 0.00124184 | 1.80E-19 | 0.0185523 | 0.0353528 | 0.599739 | 81 |
| rs4980826 | 12 | 578349 | A | C | 0.00775288 | 0.00126664 | 9.30E-10 | -0.00969168 | 0.0362822 | 0.789378 | 37 |
| rs498685 | 18 | 13088673 | C | T | -0.00708372 | 0.00126587 | 2.20E-08 | -0.0470471 | 0.0351531 | 0.180783 | 31 |
| rs5017213 | 1 | 217893504 | C | T | 0.00798231 | 0.00129352 | 6.80E-10 | -0.0758507 | 0.0361475 | 0.0358724 | 38 |
| rs505575 | 5 | 111256812 | C | T | -0.00882671 | 0.00132413 | 2.60E-11 | 0.013526 | 0.0356813 | 0.704631 | 44 |
| rs508347 | 7 | 28212824 | C | T | -0.0116854 | 0.0013584 | 7.80E-18 | 0.00873283 | 0.0363851 | 0.810321 | 74 |
| rs527248 | 1 | 177875514 | G | A | 0.0255421 | 0.00152055 | 2.50E-63 | -0.0670946 | 0.0448357 | 0.134535 | 282 |
| rs536007 | 11 | 30478524 | T | G | 0.0131215 | 0.00135621 | 3.80E-22 | -0.0521595 | 0.0380466 | 0.170394 | 94 |
| rs55674305 | 8 | 89435868 | A | G | -0.0110396 | 0.0013512 | 3.10E-16 | 0.00194375 | 0.03791 | 0.959108 | 67 |
| rs55727637 | 16 | 15145252 | T | C | -0.012336 | 0.00134922 | 6.10E-20 | -0.0847122 | 0.0381906 | 0.0265454 | 84 |
| rs55745410 | 1 | 33802817 | G | A | -0.0134839 | 0.00129888 | 3.00E-25 | 0.0264847 | 0.0361454 | 0.463724 | 108 |
| rs55758152 | 5 | 171317318 | A | G | 0.00977136 | 0.00133828 | 2.80E-13 | 0.00472945 | 0.0367584 | 0.897624 | 53 |
| rs55800172 | 1 | 32414767 | A | G | 0.0182208 | 0.00252769 | 5.70E-13 | -0.0920352 | 0.0917051 | 0.315572 | 52 |
| rs55831773 | 17 | 7559037 | T | C | -0.0145771 | 0.00158701 | 4.10E-20 | -0.0503646 | 0.0500276 | 0.314062 | 84 |

| rs55854145 | 18 | 45928049 | C | A | -0.0153151 | 0.0027447 | 2.40E-08 | -0.0249397 | 0.0903094 | 0.782426 | 31 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs56094641 | 16 | 53806453 | G | A | 0.0360832 | 0.00126589 | 1.00E-178 | 0.0377487 | 0.0352496 | 0.284215 | 812 |
| rs56130943 | 14 | 105906522 | C | A | 0.00897462 | 0.00151098 | 2.90E-09 | 0.0301959 | 0.0438517 | 0.491081 | 35 |
| rs56141370 | 9 | 127056213 | T | C | 0.0126053 | 0.00195101 | 1.00E-10 | -0.0564095 | 0.0546489 | 0.301971 | 42 |
| rs56207600 | 11 | 126196537 | A | G | 0.0121624 | 0.00198839 | 9.60E-10 | 0.0248534 | 0.0512938 | 0.628009 | 37 |
| rs57126421 | 18 | 2656989 | G | A | -0.0106884 | 0.00147137 | 3.80E-13 | 0.030806 | 0.0418794 | 0.461981 | 53 |
| rs5742915 | 15 | 74336633 | C | T | 0.00947689 | 0.0012484 | 3.20E-14 | -0.0355923 | 0.035368 | 0.314251 | 58 |
| rs5752989 | 22 | 30365780 | A | G | -0.00994486 | 0.00125977 | 2.90E-15 | -0.0616362 | 0.0349073 | 0.0774444 | 62 |
| rs5753630 | 22 | 31861950 | G | A | 0.0073063 | 0.00125982 | 6.70E-09 | -0.0370278 | 0.0349515 | 0.289416 | 34 |
| rs5771118 | 22 | 50714289 | C | T | 0.00862026 | 0.00143238 | 1.80E-09 | 0.0246327 | 0.043034 | 0.567051 | 36 |
| rs578366 | 6 | 81591034 | G | A | -0.0102156 | 0.00125287 | 3.50E-16 | -0.0589346 | 0.0351414 | 0.0935298 | 66 |
| rs59985551 | 2 | 56106928 | T | C | -0.0184511 | 0.00147745 | 8.60E-36 | 0.0617477 | 0.0417701 | 0.139334 | 156 |
| rs6026578 | 20 | 57463472 | G | C | -0.0096775 | 0.0012919 | 6.80E-14 | -0.0279092 | 0.0366419 | 0.446255 | 56 |
| rs603321 | 6 | 140256669 | G | A | -0.011537 | 0.00144747 | 1.60E-15 | -0.0397094 | 0.0458081 | 0.386017 | 64 |
| rs60385590 | 3 | 53630199 | A | C | 0.00926465 | 0.00143357 | 1.00E-10 | 0.0362174 | 0.0410324 | 0.377423 | 42 |
| rs60804050 | 1 | 118870373 | A | G | -0.0100197 | 0.00141541 | 1.50E-12 | -0.0531658 | 0.0408789 | 0.193407 | 50 |
| rs6081869 | 20 | 20060745 | G | T | -0.0101581 | 0.00129529 | 4.40E-15 | -0.0618245 | 0.0351092 | 0.078251 | 62 |
| rs6085658 | 20 | 6685377 | T | C | -0.00860031 | 0.00127705 | 1.60E-11 | -0.0871917 | 0.0351384 | 0.0130873 | 45 |
| rs60927391 | 12 | 132626425 | A | G | 0.00995835 | 0.00159167 | 3.90E-10 | -0.0131855 | 0.0394326 | 0.738091 | 39 |
| rs6142059 | 20 | 32544327 | C | T | 0.00963867 | 0.00124689 | 1.10E-14 | -0.0139872 | 0.0349422 | 0.688938 | 60 |
| rs61729527 | 8 | 77761919 | T | C | -0.0238254 | 0.00280238 | 1.90E-17 | 0.0417506 | 0.0699109 | 0.550375 | 72 |
| rs61749613 | 5 | 82815170 | G | A | 0.0248371 | 0.00310812 | 1.30E-15 | 0.00311486 | 0.133199 | 0.981343 | 64 |
| rs61878760 | 11 | 12807189 | A | G | 0.0150669 | 0.00226393 | 2.80E-11 | 0.0935675 | 0.0979857 | 0.339623 | 44 |
| rs61992671 | 14 | 101531854 | G | A | -0.0107437 | 0.00130044 | 1.40E-16 | 0.0777504 | 0.035243 | 0.0273754 | 68 |
| rs62246311 | 3 | 9498143 | A | G | 0.0129793 | 0.00204426 | 2.20E-10 | 0.0350785 | 0.0708216 | 0.620383 | 40 |
| rs6235 | 5 | 95728898 | G | C | 0.0158666 | 0.00139921 | 8.30E-30 | 0.0164244 | 0.0385485 | 0.670056 | 129 |
| rs62372052 | 5 | 42724294 | G | A | 0.0266171 | 0.00198772 | 6.80E-41 | 0.0503765 | 0.0529235 | 0.341161 | 179 |
| rs62439025 | 6 | 166592164 | C | G | 0.0110286 | 0.00172995 | 1.80E-10 | -0.0085153 | 0.0556556 | 0.878398 | 41 |
| rs62460525 | 7 | 44902676 | A | C | 0.0137123 | 0.00243085 | 1.70E-08 | 0.0972294 | 0.104973 | 0.354324 | 32 |
| rs62466118 | 7 | 92716556 | A | G | -0.0254617 | 0.00397074 | 1.40E-10 | 0.200521 | 0.18915 | 0.289093 | 41 |

| rs62476192 | 7 | 77052364 | T | C | 0.0155118 | 0.00220867 | 2.20E-12 | -0.118715 | 0.06709 | 0.0768122 | 49 |
| rs62515437 | 8 | 57160328 | T | G | 0.0193179 | 0.00148739 | 1.40E-38 | 0.0122446 | 0.0380939 | 0.747882 | 169 |
| rs62621197 | 19 | 8670147 | T | C | -0.0325828 | 0.0034154 | 1.40E-21 | -0.0509761 | 0.128381 | 0.691317 | 91 |
| rs62621400 | 15 | 101718239 | G | C | -0.019895 | 0.00267267 | 9.80E-14 | 0.0162937 | 0.073502 | 0.824566 | 55 |
| rs62621812 | 7 | 127015083 | A | G | 0.0425269 | 0.00452815 | 5.90E-21 | 0.162348 | 0.085848 | 0.0586098 | 88 |
| rs6493534 | 15 | 52379736 | C | T | 0.00699277 | 0.00126923 | 3.60E-08 | 0.0142437 | 0.0352911 | 0.686504 | 30 |
| rs6514066 | 20 | 44500794 | G | T | 0.00716924 | 0.00128608 | 2.50E-08 | 0.0196108 | 0.0362824 | 0.588849 | 31 |
| rs6563808 | 13 | 40766662 | C | T | -0.008527 | 0.00141464 | 1.70E-09 | 0.040115 | 0.0373531 | 0.28285 | 36 |
| rs6570509 | 6 | 142716286 | T | G | -0.0141674 | 0.00136794 | 3.90E-25 | -0.00244323 | 0.0396783 | 0.950901 | 107 |
| rs6575340 | 14 | 94023972 | A | G | 0.00812246 | 0.00129572 | 3.60E-10 | -0.0151419 | 0.0360304 | 0.6743 | 39 |
| rs6585827 | 10 | 124165615 | A | G | 0.0114307 | 0.00124341 | 3.80E-20 | -0.00386222 | 0.0361303 | 0.914871 | 85 |
| rs6591 | 11 | 840363 | T | C | 0.00798175 | 0.00125332 | 1.90E-10 | 0.0373057 | 0.0353608 | 0.291425 | 41 |
| rs663344 | 9 | 98316331 | C | G | -0.015079 | 0.00163963 | 3.70E-20 | 0.0140686 | 0.0446838 | 0.752877 | 85 |
| rs6665399 | 1 | 21553933 | C | T | 0.00816028 | 0.00124146 | 4.90E-11 | 0.0412841 | 0.0348545 | 0.236228 | 43 |
| rs6669189 | 1 | 75011358 | T | C | 0.00844305 | 0.00126558 | 2.50E-11 | 0.0587212 | 0.0349774 | 0.0931837 | 45 |
| rs667515 | 11 | 69449076 | C | G | -0.01036 | 0.00128042 | 5.90E-16 | -0.0199764 | 0.0368234 | 0.58748 | 65 |
| rs6680471 | 1 | 2754512 | T | C | -0.00732827 | 0.00124005 | 3.40E-09 | 0.039869 | 0.0355159 | 0.261621 | 35 |
| rs6681795 | 1 | 56583274 | G | A | 0.0151022 | 0.00147749 | 1.60E-24 | -0.00927544 | 0.0412578 | 0.822122 | 104 |
| rs6693481 | 1 | 203766395 | C | T | -0.00826232 | 0.00134714 | 8.60E-10 | -0.060184 | 0.0365737 | 0.099855 | 38 |
| rs67141907 | 13 | 42805360 | T | C | 0.0111966 | 0.00175247 | 1.70E-10 | 0.0141628 | 0.0555865 | 0.798887 | 41 |
| rs6719296 | 2 | 103101108 | A | G | 0.0088512 | 0.00124466 | 1.10E-12 | -0.0195199 | 0.0362287 | 0.590027 | 51 |
| rs6721191 | 2 | 10190115 | G | A | -0.00751644 | 0.00125273 | 2.00E-09 | -0.0575156 | 0.0397234 | 0.147644 | 36 |
| rs6734537 | 2 | 207925963 | C | T | 0.010068 | 0.00156672 | 1.30E-10 | 0.0725966 | 0.0491793 | 0.1399 | 41 |
| rs67408364 | 1 | 39618556 | G | A | 0.0141765 | 0.00150986 | 6.00E-21 | -0.0261644 | 0.044358 | 0.555293 | 88 |
| rs6743060 | 2 | 629510 | A | C | 0.0336807 | 0.00164044 | 1.10E-93 | -0.084516 | 0.0478097 | 0.077101 | 422 |
| rs6743107 | 2 | 100844781 | T | C | 0.0078679 | 0.00138466 | 1.30E-08 | -0.0762789 | 0.0380297 | 0.0448807 | 32 |
| rs6747657 | 2 | 112003163 | A | G | 0.00805073 | 0.00137412 | 4.70E-09 | -0.027245 | 0.0393979 | 0.48923 | 34 |
| rs67551338 | 12 | 3393100 | T | C | 0.0255339 | 0.00261202 | 1.40E-22 | -0.0235641 | 0.0889953 | 0.791179 | 96 |
| rs67560975 | 17 | 47142930 | C | T | 0.0129053 | 0.0019462 | 3.30E-11 | 0.00795732 | 0.0516221 | 0.877495 | 44 |
| rs6762578 | 3 | 128992047 | A | G | 0.0157288 | 0.00149834 | 8.90E-26 | 0.0495566 | 0.0464503 | 0.286029 | 110 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs6764533 | 3 | 196088464 | A | G | 0.00809358 | 0.00129282 | 3.80E-10 | 0.0227618 | 0.0381378 | 0.550621 | 39 |
| rs6779752 | 3 | 85663849 | A | G | -0.0127627 | 0.0012986 | 8.50E-23 | 0.0838983 | 0.0388773 | 0.0309257 | 97 |
| rs6781248 | 3 | 13726684 | A | G | 0.00755674 | 0.00124552 | 1.30E-09 | 0.0358133 | 0.0357193 | 0.31604 | 37 |
| rs6800021 | 3 | 50190346 | A | G | 0.0136373 | 0.00125477 | 1.60E-27 | -0.0661532 | 0.0371098 | 0.0746449 | 118 |
| rs68119703 | 2 | 203606328 | T | C | 0.00713033 | 0.00125123 | 1.20E-08 | 0.0292423 | 0.0350364 | 0.403928 | 32 |
| rs6874142 | 5 | 172753555 | G | T | 0.0181922 | 0.00206704 | 1.40E-18 | -0.0248258 | 0.0604457 | 0.681284 | 77 |
| rs6900690 | 6 | 126223032 | A | G | 0.00803067 | 0.00124509 | 1.10E-10 | -0.0108508 | 0.0352667 | 0.758326 | 42 |
| rs6902789 | 6 | 105358192 | A | G | 0.0106944 | 0.00128924 | 1.10E-16 | 0.0249786 | 0.0362158 | 0.490371 | 69 |
| rs6946415 | 7 | 150684548 | G | A | 0.0188992 | 0.00128554 | 6.30E-49 | 0.0416972 | 0.0372556 | 0.263047 | 216 |
| rs6946419 | 7 | 28768853 | C | T | -0.00791452 | 0.00128435 | 7.20E-10 | -0.00626022 | 0.0358792 | 0.861488 | 38 |
| rs695922 | 5 | 53385529 | G | A | -0.0102252 | 0.00169607 | 1.70E-09 | 0.0346707 | 0.0467952 | 0.458752 | 36 |
| rs696343 | 12 | 116304907 | G | A | -0.0111744 | 0.00194468 | 9.10E-09 | -0.0341441 | 0.0601422 | 0.570223 | 33 |
| rs6972291 | 7 | 55802063 | C | T | -0.0111741 | 0.00163261 | 7.70E-12 | -0.0217576 | 0.0399845 | 0.586337 | 47 |
| rs6984820 | 8 | 144993324 | T | C | -0.0101424 | 0.00126049 | 8.50E-16 | -0.00859682 | 0.0355574 | 0.808956 | 65 |
| rs7033487 | 9 | 119129257 | C | T | -0.0234685 | 0.00156114 | 4.50E-51 | -0.0316846 | 0.0416572 | 0.446893 | 226 |
| rs703593 | 12 | 103064247 | G | A | -0.0113974 | 0.00124074 | 4.10E-20 | -0.00287563 | 0.0354004 | 0.935258 | 84 |
| rs705953 | 6 | 158775332 | G | A | -0.00933901 | 0.00131226 | 1.10E-12 | -0.0282895 | 0.035794 | 0.429328 | 51 |
| rs708723 | 1 | 205739266 | T | C | -0.0133027 | 0.00124122 | 8.40E-27 | 0.0484728 | 0.0354341 | 0.171321 | 115 |
| rs7095768 | 10 | 53256505 | T | G | 0.0078285 | 0.00140856 | 2.70E-08 | -0.0554306 | 0.0406534 | 0.172728 | 31 |
| rs7129320 | 11 | 68388220 | A | G | -0.0231304 | 0.00166904 | 1.10E-43 | -0.104067 | 0.0627457 | 0.0972053 | 192 |
| rs7132908 | 12 | 50263148 | A | G | 0.015809 | 0.00127564 | 2.90E-35 | -0.0417197 | 0.0359254 | 0.245525 | 154 |
| rs71385734 | 16 | 2160503 | G | T | -0.0230668 | 0.00166494 | 1.20E-43 | 0.0373077 | 0.045383 | 0.411041 | 192 |
| rs71393968 | 16 | 67847341 | A | G | 0.0213672 | 0.00297504 | 6.90E-13 | 0.0514029 | 0.0862896 | 0.551374 | 52 |
| rs7141420 | 14 | 79899454 | T | C | 0.0131154 | 0.00125308 | 1.20E-25 | -0.0134159 | 0.0355336 | 0.705762 | 110 |
| rs71423263 | 2 | 144024781 | G | T | 0.0119912 | 0.00177706 | 1.50E-11 | -0.0284172 | 0.0559805 | 0.611715 | 46 |
| rs7145429 | 14 | 23879285 | T | C | 0.0207324 | 0.00314537 | 4.40E-11 | -0.0347424 | 0.184907 | 0.850962 | 43 |
| rs7192870 | 16 | 14397436 | C | T | -0.00885433 | 0.00125929 | 2.00E-12 | 0.0083426 | 0.0358427 | 0.815951 | 49 |
| rs7223535 | 17 | 29211667 | A | G | -0.025062 | 0.00139944 | 1.00E-71 | 0.0539092 | 0.0388668 | 0.165434 | 321 |
| rs7229520 | 18 | 46516468 | A | G | -0.0104597 | 0.00131762 | 2.00E-15 | -0.0512003 | 0.0366481 | 0.16239 | 63 |
| rs7245985 | 19 | 30710410 | G | T | -0.0108777 | 0.00153676 | 1.50E-12 | -0.00471197 | 0.0445653 | 0.915795 | 50 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs72656010 | 8 | 57122215 | C | T | -0.0366476 | 0.0018399 | 2.80E-88 | -0.0487672 | 0.0527208 | 0.354961 | 397 |
| rs72703409 | 4 | 184225295 | C | G | -0.0150343 | 0.0025077 | 2.00E-09 | 0.0768703 | 0.092652 | 0.406727 | 36 |
| rs7280982 | 21 | 37468223 | A | G | -0.00884819 | 0.00150596 | 4.20E-09 | 0.0414104 | 0.0413144 | 0.316187 | 35 |
| rs72885917 | 2 | 172416376 | C | A | -0.0204755 | 0.00143199 | 2.20E-46 | -0.0163196 | 0.0443179 | 0.712695 | 204 |
| rs72892910 | 6 | 50816887 | T | G | 0.0206636 | 0.00164188 | 2.50E-36 | -0.00690911 | 0.0433407 | 0.873343 | 158 |
| rs73004967 | 19 | 19717056 | G | A | -0.0167375 | 0.0024734 | 1.30E-11 | -0.0322468 | 0.0719472 | 0.654008 | 46 |
| rs7301341 | 12 | 94083105 | C | T | -0.0102566 | 0.00132363 | 9.30E-15 | -0.0164663 | 0.0367676 | 0.654262 | 60 |
| rs73013411 | 6 | 164126233 | A | C | 0.0131306 | 0.00183747 | 8.90E-13 | 0.0281017 | 0.0642887 | 0.662026 | 51 |
| rs73052033 | 3 | 185828465 | C | T | -0.0154162 | 0.00159865 | 5.20E-22 | -0.0276738 | 0.0474831 | 0.560018 | 93 |
| rs7312646 | 12 | 102388920 | C | A | -0.0105195 | 0.00126518 | 9.20E-17 | 0.0306697 | 0.0350966 | 0.382191 | 69 |
| rs73158212 | 7 | 148383377 | G | A | -0.00839688 | 0.00150656 | 2.50E-08 | 0.00341384 | 0.0466573 | 0.941672 | 31 |
| rs73175572 | 3 | 185490184 | G | A | 0.0279636 | 0.00198793 | 6.10E-45 | -0.0192286 | 0.0543399 | 0.723444 | 198 |
| rs73189390 | 21 | 17383170 | A | G | -0.00904486 | 0.00161779 | 2.30E-08 | 0.0203325 | 0.0438739 | 0.643056 | 31 |
| rs7321045 | 13 | 97034410 | A | G | 0.00852871 | 0.00125985 | 1.30E-11 | -0.108557 | 0.0346073 | 0.00170785 | 46 |
| rs73213484 | 4 | 28489339 | T | A | -0.012012 | 0.00178131 | 1.50E-11 | 0.0471357 | 0.0492947 | 0.33897 | 45 |
| rs73601548 | 10 | 18549889 | T | C | 0.0141581 | 0.00195798 | 4.80E-13 | -0.11016 | 0.0718709 | 0.125339 | 52 |
| rs73619441 | 20 | 61564901 | G | T | -0.0125566 | 0.00177444 | 1.50E-12 | 0.136007 | 0.0557886 | 0.0147727 | 50 |
| rs74048171 | 11 | 2093603 | A | C | -0.0103557 | 0.00142123 | 3.20E-13 | -0.0649779 | 0.041889 | 0.120855 | 53 |
| rs744205 | 11 | 69929677 | A | G | 0.0107105 | 0.00124912 | 1.00E-17 | -0.00541572 | 0.0350915 | 0.877349 | 74 |
| rs74494415 | 18 | 74972138 | T | C | -0.0251611 | 0.00321022 | 4.60E-15 | -0.0116592 | 0.0650604 | 0.857776 | 61 |
| rs7485647 | 12 | 131631133 | A | G | -0.00949175 | 0.00171023 | 2.90E-08 | 0.0526854 | 0.0397178 | 0.184675 | 31 |
| rs7513326 | 1 | 159895536 | A | G | -0.00701079 | 0.00125821 | 2.50E-08 | 0.050554 | 0.0352627 | 0.151675 | 31 |
| rs752070 | 2 | 74824970 | G | A | 0.0114493 | 0.00186451 | 8.20E-10 | 0.0556946 | 0.0497172 | 0.262616 | 38 |
| rs7535501 | 1 | 176462695 | T | C | -0.0159307 | 0.00269284 | 3.30E-09 | 0.0872866 | 0.0872994 | 0.317382 | 35 |
| rs7549783 | 1 | 86051951 | T | C | -0.00907445 | 0.00159561 | 1.30E-08 | -0.0273473 | 0.052672 | 0.603622 | 32 |
| rs7619139 | 3 | 25110415 | A | T | 0.0119305 | 0.00126254 | 3.40E-21 | -0.00483012 | 0.0353659 | 0.891366 | 89 |
| rs76307059 | 6 | 169000888 | G | C | -0.0185971 | 0.00295524 | 3.10E-10 | -0.0811127 | 0.073412 | 0.269204 | 40 |
| rs76364830 | 8 | 13372120 | A | G | -0.0224679 | 0.00257118 | 2.40E-18 | -0.0251323 | 0.0949082 | 0.791159 | 76 |
| rs7647657 | 3 | 38573746 | G | A | -0.0112947 | 0.00127681 | 9.10E-19 | -0.0543205 | 0.0354354 | 0.12529 | 78 |
| rs76513770 | 16 | 72505534 | C | T | -0.0160893 | 0.00185994 | 5.10E-18 | 0.0407151 | 0.0473274 | 0.389631 | 75 |

| rs76693355 | 11 | 120292477 | C | T | -0.0144693 | 0.00194095 | 9.00E-14 | 0.071128 | 0.0525585 | 0.175956 | 56 |
| rs7671110 | 4 | 17874089 | T | C | -0.0317808 | 0.00169681 | 2.80E-78 | -0.043645 | 0.0600109 | 0.467053 | 351 |
| rs76798800 | 1 | 154994978 | T | G | 0.0227786 | 0.00140194 | 2.30E-59 | -0.0186631 | 0.0414521 | 0.652543 | 264 |
| rs7683836 | 4 | 180167906 | A | G | -0.00690828 | 0.00125172 | 3.40E-08 | -0.0373965 | 0.0350149 | 0.285513 | 30 |
| rs76875574 | 15 | 40376098 | A | C | -0.0155169 | 0.00278961 | 2.70E-08 | -0.0933976 | 0.075243 | 0.214502 | 31 |
| rs76895963 | 12 | 4384844 | G | T | 0.0952142 | 0.00480792 | 2.80E-87 | -0.0299797 | 0.105475 | 0.776231 | 392 |
| rs7701443 | 5 | 142792650 | G | A | -0.0071229 | 0.00125953 | 1.60E-08 | -0.0152617 | 0.0361963 | 0.67329 | 32 |
| rs7706886 | 5 | 32722319 | A | G | 0.0126124 | 0.00141893 | 6.20E-19 | -0.0281044 | 0.0412943 | 0.496132 | 79 |
| rs77093479 | 17 | 79429575 | G | C | -0.0104126 | 0.00168799 | 6.90E-10 | 0.0192651 | 0.0465398 | 0.678911 | 38 |
| rs77165542 | 2 | 430975 | T | C | -0.058475 | 0.00338396 | 6.60E-67 | -0.221583 | 0.136063 | 0.103412 | 299 |
| rs7728690 | 5 | 88411214 | T | C | -0.0110145 | 0.00127302 | 5.00E-18 | -0.0581417 | 0.0375377 | 0.121408 | 75 |
| rs7731023 | 5 | 36181627 | G | A | 0.00857204 | 0.00125278 | 7.80E-12 | 0.0476253 | 0.0365768 | 0.192895 | 47 |
| rs77344209 | 3 | 55515277 | T | C | 0.00980116 | 0.00144504 | 1.20E-11 | 0.0413633 | 0.0446719 | 0.354479 | 46 |
| rs7740107 | 6 | 130374461 | A | T | -0.029136 | 0.00140391 | 1.10E-95 | 0.0336921 | 0.0393822 | 0.392265 | 431 |
| rs774214 | 12 | 56918566 | C | T | -0.00899293 | 0.00131201 | 7.20E-12 | -0.0379439 | 0.0365097 | 0.298673 | 47 |
| rs7755185 | 6 | 152339615 | G | A | 0.00865736 | 0.00133858 | 1.00E-10 | 0.0556379 | 0.0360446 | 0.122689 | 42 |
| rs7780752 | 7 | 93241640 | C | T | 0.012444 | 0.00129087 | 5.40E-22 | -0.0511117 | 0.0397625 | 0.198644 | 93 |
| rs77848106 | 1 | 107971673 | A | C | -0.00902452 | 0.00136556 | 3.90E-11 | 0.034518 | 0.0353249 | 0.328491 | 44 |
| rs7815955 | 8 | 130719567 | T | A | -0.015189 | 0.00154398 | 7.80E-23 | 0.0299953 | 0.0461639 | 0.515849 | 97 |
| rs78378222 | 17 | 7571752 | G | T | 0.0819657 | 0.00576633 | 7.40E-46 | 0.144597 | 0.133735 | 0.279601 | 202 |
| rs7842996 | 8 | 78107140 | A | T | 0.0191695 | 0.00138047 | 7.70E-44 | -0.0178026 | 0.0422118 | 0.673212 | 193 |
| rs7843128 | 8 | 22473465 | C | T | -0.00826258 | 0.00129837 | 2.00E-10 | -0.0070346 | 0.037303 | 0.850422 | 40 |
| rs78751935 | 5 | 50675829 | C | T | 0.0220472 | 0.00349984 | 3.00E-10 | -0.0437059 | 0.100385 | 0.663286 | 40 |
| rs7910211 | 10 | 81228378 | C | T | 0.00996384 | 0.00170194 | 4.80E-09 | 0.033902 | 0.0422733 | 0.422569 | 34 |
| rs7912286 | 10 | 114693230 | G | A | -0.00866923 | 0.00128083 | 1.30E-11 | -0.0229004 | 0.0356171 | 0.520249 | 46 |
| rs7952436 | 11 | 67024534 | T | C | -0.033629 | 0.00226417 | 6.70E-50 | -0.0956326 | 0.0793626 | 0.2282 | 221 |
| rs7962636 | 12 | 116450006 | C | T | -0.0080785 | 0.00130234 | 5.50E-10 | 0.0866837 | 0.0397111 | 0.0290462 | 38 |
| rs798759 | 4 | 1730299 | G | A | -0.00966053 | 0.0012402 | 6.70E-15 | -0.0393219 | 0.0364795 | 0.28107 | 61 |
| rs8002779 | 13 | 92015977 | A | G | -0.00765596 | 0.00126739 | 1.50E-09 | 0.0327531 | 0.034982 | 0.349127 | 36 |
| rs8007644 | 14 | 35218831 | A | G | 0.00807838 | 0.00128683 | 3.40E-10 | 0.000961351 | 0.0350737 | 0.978133 | 39 |

| rs8074074 | 17 | 17407816 | T | C | 0.00945785 | 0.00144929 | 6.80E-11 | -0.0193537 | 0.0385037 | 0.615214 | 43 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs8088739 | 18 | 60767088 | C | T | 0.00822751 | 0.00144789 | 1.30E-08 | -0.00919623 | 0.0415147 | 0.82469 | 32 |
| rs8091374 | 18 | 71904385 | A | G | -0.00987196 | 0.00172549 | 1.10E-08 | -0.00479566 | 0.0443447 | 0.913881 | 33 |
| rs822549 | 7 | 148649180 | C | T | 0.0119777 | 0.00140293 | 1.40E-17 | 0.0190784 | 0.0388194 | 0.623096 | 73 |
| rs836511 | 7 | 6458319 | G | A | 0.0104195 | 0.001553 | 2.00E-11 | 0.0308769 | 0.0404968 | 0.445789 | 45 |
| rs843374 | 3 | 183997261 | T | A | -0.0112148 | 0.00125963 | 5.40E-19 | -0.0327232 | 0.0359886 | 0.36321 | 79 |
| rs892511 | 1 | 110078255 | G | C | 0.0263348 | 0.00378949 | 3.70E-12 | 0.0532646 | 0.079459 | 0.502641 | 48 |
| rs894360 | 8 | 135601194 | C | T | -0.0190258 | 0.00129354 | 5.70E-49 | 0.0193079 | 0.035247 | 0.583838 | 216 |
| rs9291926 | 5 | 67599656 | G | T | -0.0119714 | 0.00124336 | 6.10E-22 | -0.0431313 | 0.0348884 | 0.21636 | 93 |
| rs9327336 | 5 | 123990270 | C | T | 0.00866505 | 0.00130542 | 3.20E-11 | 0.0285285 | 0.0354469 | 0.420922 | 44 |
| rs9350850 | 6 | 81050236 | C | T | 0.0233941 | 0.00228783 | 1.50E-24 | -0.00745713 | 0.0543449 | 0.890858 | 105 |
| rs9369308 | 6 | 41777680 | G | A | -0.0184067 | 0.00183186 | 9.40E-24 | -0.0500661 | 0.0656965 | 0.446011 | 101 |
| rs9372837 | 6 | 126638124 | A | G | 0.0151841 | 0.00125109 | 6.80E-34 | -0.0433056 | 0.0348879 | 0.214503 | 147 |
| rs9379084 | 6 | 7231843 | A | G | -0.0151827 | 0.00199505 | 2.70E-14 | 0.0343026 | 0.0551902 | 0.534248 | 58 |
| rs9398171 | 6 | 108983527 | T | C | 0.0208071 | 0.00136489 | 1.80E-52 | 0.00493583 | 0.0363325 | 0.891939 | 232 |
| rs943190 | 10 | 22842368 | T | C | -0.00799005 | 0.00126937 | 3.10E-10 | 0.0193453 | 0.0358934 | 0.589912 | 40 |
| rs9461246 | 6 | 26381660 | A | G | -0.017785 | 0.00191435 | 1.50E-20 | 0.0146737 | 0.0443945 | 0.741 | 86 |
| rs9465505 | 6 | 19726083 | A | G | -0.00819844 | 0.00124524 | 4.60E-11 | -0.0259496 | 0.0350068 | 0.458528 | 43 |
| rs9480933 | 6 | 109671391 | G | C | -0.0130474 | 0.00129843 | 9.30E-24 | -0.0118419 | 0.0359267 | 0.741693 | 101 |
| rs9491201 | 6 | 124934212 | T | C | 0.00959997 | 0.00167258 | 9.50E-09 | 0.0251547 | 0.0691626 | 0.716079 | 33 |
| rs9513510 | 13 | 99571922 | C | G | -0.0108828 | 0.00135596 | 1.00E-15 | -0.0309936 | 0.037119 | 0.403729 | 64 |
| rs9540493 | 13 | 66205704 | G | A | -0.00889086 | 0.00125617 | 1.50E-12 | -0.022016 | 0.0350268 | 0.529644 | 50 |
| rs9634212 | 12 | 93993266 | A | C | 0.0237023 | 0.0015016 | 4.00E-56 | 0.0516126 | 0.0404899 | 0.202414 | 249 |
| rs9654451 | 5 | 299543 | T | C | 0.0112223 | 0.0018522 | 1.40E-09 | -0.0756739 | 0.0615907 | 0.219201 | 37 |
| rs968821 | 9 | 94187634 | C | G | -0.0111297 | 0.00131107 | 2.10E-17 | 0.0101657 | 0.0396244 | 0.797525 | 72 |
| rs9783665 | 14 | 103271158 | A | T | -0.00741777 | 0.00130506 | 1.30E-08 | 0.00451364 | 0.0367655 | 0.902291 | 32 |
| rs9800418 | 5 | 77641008 | C | T | 0.00836033 | 0.00144872 | 7.90E-09 | -0.00122712 | 0.0398304 | 0.975422 | 33 |
| rs981002 | 4 | 12881731 | A | T | -0.0105513 | 0.00140219 | 5.30E-14 | 0.0398127 | 0.0403728 | 0.32407 | 57 |
| rs9853018 | 3 | 141101961 | T | C | 0.029985 | 0.00124617 | 6.30E-128 | -0.0416178 | 0.0351376 | 0.236246 | 579 |
| rs9884540 | 4 | 124905749 | G | T | -0.00799448 | 0.00127923 | 4.10E-10 | 0.0764525 | 0.0369193 | 0.0383778 | 39 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs9892365 | 17 | 59491384 | G | A | -0.0157776 | 0.00132317 | 8.90E-33 | 0.0242423 | 0.0396054 | 0.540473 | 142 |
| rs9898189 | 17 | 80480516 | G | C | -0.00808434 | 0.00134891 | 2.10E-09 | 0.00209979 | 0.0356033 | 0.95297 | 36 |
| rs9925273 | 16 | 375900 | G | A | -0.011812 | 0.00161653 | 2.70E-13 | 0.0962155 | 0.047547 | 0.043013 | 53 |
| rs9938120 | 16 | 19977733 | T | C | -0.0184235 | 0.00179345 | 9.40E-25 | 0.0391542 | 0.0535203 | 0.464427 | 106 |
| rs9951619 | 18 | 56882326 | G | T | 0.012471 | 0.00148235 | 4.00E-17 | -0.0285812 | 0.0371785 | 0.442038 | 71 |
| rs9960619 | 18 | 33040095 | T | C | 0.00977566 | 0.00131041 | 8.70E-14 | 0.0346681 | 0.0371806 | 0.351117 | 56 |
| rs9985795 | 4 | 135213286 | C | T | -0.00727182 | 0.00124405 | 5.10E-09 | 0.0252399 | 0.0352754 | 0.474293 | 34 |

11      *Note.* Chr, chromosome; Beta, beta-coefficient; F, F-statistic; OCD, Obsessive-compulsive disorder; SE, standard error.

**Supplementary Table S4** Effect estimate of the association between genetically predicted body fat rate and risk of obsessive-compulsive disorder

| Variant rsID | Chr | Position | Effect allele | Other allele | Association with body fat rate | | | Association with OCD | | | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Beta | Se | P | Beta | Se | P | |
| rs10050620 | 5 | 63927239 | T | C | -0.0103073 | 0.00164616 | 3.80E-10 | 0.0335248 | 0.0366792 | 0.360716 | 39 |
| rs10071339 | 5 | 178505013 | G | C | -0.00895628 | 0.00159694 | 2.00E-08 | -0.00179173 | 0.0367261 | 0.96109 | 31 |
| rs10100245 | 8 | 77226919 | A | G | 0.0152146 | 0.00155645 | 1.40E-22 | -0.00281059 | 0.0348938 | 0.935802 | 96 |
| rs10116857 | 9 | 16595649 | A | C | -0.0219296 | 0.00320576 | 7.90E-12 | -0.0478182 | 0.0830757 | 0.564886 | 47 |
| rs1013293 | 1 | 62570321 | A | G | -0.0139271 | 0.00155866 | 4.10E-19 | 0.00913725 | 0.0364541 | 0.802084 | 80 |
| rs10146997 | 14 | 79945162 | G | A | 0.018731 | 0.00185697 | 6.30E-24 | 0.0123912 | 0.0405868 | 0.760137 | 102 |
| rs10187101 | 2 | 50742227 | T | C | -0.010248 | 0.00159844 | 1.40E-10 | 0.0233534 | 0.0352665 | 0.507845 | 41 |
| rs10209821 | 2 | 228980358 | T | C | 0.0123638 | 0.0016188 | 2.20E-14 | -0.0262551 | 0.0377036 | 0.486207 | 58 |
| rs10210468 | 2 | 165377103 | C | T | -0.00924733 | 0.00156198 | 3.20E-09 | -0.019205 | 0.0351062 | 0.584342 | 35 |
| rs10245306 | 7 | 158029340 | C | G | 0.00917484 | 0.00167492 | 4.30E-08 | -0.0647203 | 0.0396784 | 0.102864 | 30 |
| rs10259620 | 7 | 27202289 | G | A | -0.0139877 | 0.00189659 | 1.60E-13 | -0.0148775 | 0.0389376 | 0.702399 | 54 |
| rs1038088 | 17 | 28074563 | G | T | 0.0125471 | 0.00154189 | 4.00E-16 | -0.0414835 | 0.0348225 | 0.233542 | 66 |
| rs10423928 | 19 | 46182304 | A | T | -0.0232502 | 0.00194747 | 7.40E-33 | -0.0536731 | 0.0402977 | 0.182887 | 143 |
| rs10496731 | 2 | 135597628 | G | T | -0.0115311 | 0.00158686 | 3.70E-13 | -0.046196 | 0.0355377 | 0.193631 | 53 |
| rs10505836 | 12 | 19288508 | C | A | 0.0128411 | 0.00223802 | 9.60E-09 | 0.0824167 | 0.0509898 | 0.106022 | 33 |
| rs10510025 | 10 | 118650996 | T | C | 0.0129238 | 0.00179232 | 5.60E-13 | 0.0571945 | 0.0402106 | 0.154918 | 52 |
| rs10513935 | 18 | 1660497 | A | G | -0.00942576 | 0.00168416 | 2.20E-08 | -0.00931788 | 0.0397656 | 0.814737 | 31 |
| rs1056441 | 20 | 62370349 | C | T | 0.0120757 | 0.0016495 | 2.50E-13 | 0.0556341 | 0.0398639 | 0.162834 | 54 |
| rs10756798 | 9 | 16739763 | T | C | -0.0140265 | 0.00160866 | 2.80E-18 | -0.00355797 | 0.0367824 | 0.92294 | 76 |
| rs10854853 | 22 | 48874412 | T | G | 0.0104441 | 0.00155077 | 1.60E-11 | -0.0449645 | 0.0351356 | 0.200635 | 45 |
| rs1086103 | 4 | 145920099 | A | C | -0.021384 | 0.00368848 | 6.70E-09 | -0.0405767 | 0.142922 | 0.776481 | 34 |
| rs10867315 | 9 | 81574729 | A | G | -0.0111522 | 0.00196791 | 1.50E-08 | -0.005171 | 0.0429441 | 0.904156 | 32 |
| rs10896012 | 11 | 65278461 | C | T | 0.0115223 | 0.00187372 | 7.80E-10 | -0.0901103 | 0.0590155 | 0.126788 | 38 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs10938397 | 4 | 45182527 | G | A | 0.0201696 | 0.00155596 | 2.00E-38 | -0.0227716 | 0.0349568 | 0.514776 | 168 |
| rs10959841 | 9 | 11469190 | C | T | -0.00911255 | 0.00158643 | 9.20E-09 | 0.0378656 | 0.036612 | 0.301024 | 33 |
| rs10999460 | 10 | 72428283 | T | C | 0.016885 | 0.00175383 | 6.10E-22 | 0.0868593 | 0.0391713 | 0.0265944 | 93 |
| rs11012732 | 10 | 21830104 | G | A | 0.0166039 | 0.00163819 | 3.80E-24 | 0.0339619 | 0.0375172 | 0.365341 | 103 |
| rs11030016 | 11 | 27487992 | T | C | 0.0132564 | 0.001761 | 5.20E-14 | -0.0182476 | 0.0373571 | 0.625222 | 57 |
| rs11030108 | 11 | 27695464 | G | A | -0.0185028 | 0.00165098 | 3.80E-29 | 0.0155175 | 0.037134 | 0.676036 | 126 |
| rs11062595 | 12 | 3367760 | G | C | -0.0153041 | 0.00266658 | 9.50E-09 | 0.00604944 | 0.0645369 | 0.925319 | 33 |
| rs11079849 | 17 | 47090785 | T | C | -0.0130416 | 0.00164632 | 2.30E-15 | -0.0403359 | 0.0382109 | 0.291145 | 63 |
| rs11105842 | 12 | 91243910 | A | G | -0.0101643 | 0.00160647 | 2.50E-10 | -0.0199765 | 0.0362828 | 0.581922 | 40 |
| rs11122450 | 1 | 230301811 | G | T | -0.0101571 | 0.00157943 | 1.30E-10 | 0.0183572 | 0.0351398 | 0.60139 | 41 |
| rs11129660 | 3 | 35695961 | T | C | 0.0110275 | 0.00189369 | 5.80E-09 | 0.0107311 | 0.0451587 | 0.812167 | 34 |
| rs11150745 | 17 | 78757626 | G | A | -0.0126783 | 0.00166019 | 2.20E-14 | 0.0110028 | 0.03887 | 0.777125 | 58 |
| rs11165643 | 1 | 96924097 | T | C | 0.0146762 | 0.00156269 | 5.90E-21 | -0.0479929 | 0.0357043 | 0.17889 | 88 |
| rs11205303 | 1 | 149906413 | C | T | 0.018328 | 0.00156672 | 1.30E-31 | 0.0116429 | 0.0377875 | 0.757994 | 137 |
| rs11222371 | 11 | 130745719 | T | C | 0.0118153 | 0.00156853 | 5.00E-14 | -0.000314962 | 0.0350986 | 0.99284 | 57 |
| rs11245344 | 10 | 126418782 | T | C | 0.00937385 | 0.00156054 | 1.90E-09 | -0.031607 | 0.035562 | 0.374117 | 36 |
| rs112852122 | 20 | 47498117 | A | G | -0.0164403 | 0.00215064 | 2.10E-14 | 0.00612766 | 0.0474796 | 0.897311 | 58 |
| rs11343 | 16 | 19279464 | G | T | 0.00867343 | 0.00158474 | 4.40E-08 | -0.0329701 | 0.0356342 | 0.354844 | 30 |
| rs113503736 | 4 | 19204890 | G | T | -0.0102974 | 0.00185568 | 2.90E-08 | 0.0658541 | 0.0514656 | 0.200695 | 31 |
| rs113941571 | 15 | 52268996 | T | C | 0.0209909 | 0.00297573 | 1.70E-12 | -0.0236445 | 0.0868271 | 0.785378 | 50 |
| rs11538 | 22 | 18220831 | G | A | 0.0121586 | 0.00204591 | 2.80E-09 | 0.0327749 | 0.0442676 | 0.459068 | 35 |
| rs11619393 | 13 | 20262266 | C | T | 0.0146332 | 0.00219293 | 2.50E-11 | 0.0148457 | 0.0659811 | 0.82198 | 45 |
| rs11619722 | 13 | 27998600 | C | T | -0.0108221 | 0.00168444 | 1.30E-10 | 0.000629677 | 0.0385088 | 0.986954 | 41 |
| rs11664106 | 18 | 2846812 | T | A | 0.010994 | 0.00163476 | 1.80E-11 | -0.000195973 | 0.0374049 | 0.99582 | 45 |
| rs11664848 | 18 | 42575661 | G | C | 0.00965173 | 0.00163558 | 3.60E-09 | 0.0423984 | 0.035815 | 0.236486 | 35 |
| rs11666808 | 19 | 18383506 | C | T | -0.0177091 | 0.00160075 | 1.90E-28 | 0.0247311 | 0.0369264 | 0.503023 | 122 |
| rs117176448 | 8 | 27261138 | G | C | 0.0172978 | 0.00261256 | 3.60E-11 | -0.023374 | 0.064213 | 0.715853 | 44 |
| rs11782074 | 8 | 142617096 | T | G | 0.0106691 | 0.00161125 | 3.60E-11 | -0.0773547 | 0.0364483 | 0.0338112 | 44 |

| rs11786089 | 8 | 21975521 | G | A | 0.0112967 | 0.00154993 | 3.10E-13 | 0.0128303 | 0.0352381 | 0.715781 | 53 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs11852419 | 15 | 41456374 | T | A | 0.0106498 | 0.00175622 | 1.30E-09 | 0.0229122 | 0.0399138 | 0.565939 | 37 |
| rs11855853 | 15 | 78012618 | T | C | -0.0103933 | 0.00174766 | 2.70E-09 | 0.0262248 | 0.042805 | 0.540102 | 35 |
| rs11866219 | 16 | 69549749 | C | A | -0.0158787 | 0.00158501 | 1.30E-23 | 0.0943808 | 0.0355223 | 0.00788533 | 100 |
| rs12042959 | 1 | 243533273 | G | A | -0.0145771 | 0.00220294 | 3.70E-11 | -0.0237882 | 0.047653 | 0.617641 | 44 |
| rs12053559 | 2 | 138416391 | G | T | 0.00856437 | 0.00154317 | 2.90E-08 | 0.00150125 | 0.0351877 | 0.965969 | 31 |
| rs12072739 | 1 | 98315893 | G | A | 0.0134145 | 0.00184627 | 3.70E-13 | -0.0618114 | 0.0375086 | 0.0993688 | 53 |
| rs12103006 | 16 | 24726237 | G | A | 0.0104802 | 0.00155885 | 1.80E-11 | -0.00794743 | 0.0347986 | 0.819348 | 45 |
| rs12204724 | 6 | 116532430 | T | C | 0.00925634 | 0.00168026 | 3.60E-08 | -0.0100236 | 0.0420973 | 0.811799 | 30 |
| rs1229984 | 4 | 100239319 | C | T | 0.0310059 | 0.00467505 | 3.30E-11 | 0.0923239 | 0.250305 | 0.712243 | 44 |
| rs12333760 | 7 | 99185406 | C | T | -0.0121202 | 0.00208123 | 5.80E-09 | 0.0288188 | 0.0416663 | 0.489152 | 34 |
| rs12375196 | 7 | 103416541 | A | C | 0.0102996 | 0.00156914 | 5.20E-11 | -0.0828548 | 0.0350484 | 0.018078 | 43 |
| rs12376870 | 9 | 117890567 | A | G | -0.0110309 | 0.00181676 | 1.30E-09 | -0.0108741 | 0.0412345 | 0.792 | 37 |
| rs12402939 | 1 | 150615094 | C | A | -0.0101759 | 0.00157772 | 1.10E-10 | -0.053818 | 0.035499 | 0.129509 | 42 |
| rs12419272 | 11 | 117015516 | G | C | 0.0206723 | 0.00333136 | 5.50E-10 | -0.0656542 | 0.065993 | 0.319802 | 39 |
| rs12432026 | 14 | 75282116 | G | T | 0.00996462 | 0.00154621 | 1.20E-10 | -0.00483042 | 0.035337 | 0.891271 | 42 |
| rs12435249 | 14 | 30090917 | C | G | -0.0098795 | 0.00157228 | 3.30E-10 | -0.0125405 | 0.0353915 | 0.723088 | 39 |
| rs12441543 | 15 | 31689543 | A | G | 0.0114053 | 0.0017089 | 2.50E-11 | 0.0130692 | 0.0384602 | 0.734 | 45 |
| rs12459965 | 19 | 18452195 | T | C | -0.0126806 | 0.00174938 | 4.20E-13 | -0.0954501 | 0.0420498 | 0.0232119 | 53 |
| rs12462975 | 19 | 30272202 | A | G | 0.0123462 | 0.00165332 | 8.20E-14 | 0.0422815 | 0.0375146 | 0.259714 | 56 |
| rs12475388 | 2 | 27039792 | A | G | -0.00988584 | 0.00154662 | 1.60E-10 | 0.0240674 | 0.0350639 | 0.492469 | 41 |
| rs12538435 | 7 | 71437104 | G | A | -0.0109846 | 0.00175319 | 3.70E-10 | 0.0427058 | 0.0376498 | 0.256672 | 39 |
| rs12619178 | 2 | 100838157 | T | C | -0.0144544 | 0.0015682 | 3.00E-20 | 0.10642 | 0.0350471 | 0.00239354 | 85 |
| rs12628603 | 22 | 38119213 | A | G | -0.00959714 | 0.00159107 | 1.60E-09 | 0.0225226 | 0.0352693 | 0.523091 | 36 |
| rs12639116 | 3 | 62434127 | T | C | -0.0161252 | 0.00262251 | 7.80E-10 | -0.0388574 | 0.0506834 | 0.443279 | 38 |
| rs12658319 | 5 | 153551892 | T | C | 0.0107194 | 0.0016852 | 2.00E-10 | -0.020418 | 0.0378744 | 0.589819 | 40 |
| rs12670456 | 7 | 122102781 | G | A | 0.00941089 | 0.00168003 | 2.10E-08 | 0.0100316 | 0.0399949 | 0.801952 | 31 |
| rs12724928 | 1 | 113128931 | C | T | -0.0146759 | 0.00190484 | 1.30E-14 | 0.0361811 | 0.0375369 | 0.335107 | 59 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs1284373 | 1 | 33355923 | T | C | -0.0108576 | 0.00192322 | 1.60E-08 | -0.0500824 | 0.0415599 | 0.228178 | 32 |
| rs12890931 | 14 | 69753369 | G | T | 0.0120832 | 0.00161524 | 7.40E-14 | 0.0547615 | 0.0351642 | 0.119397 | 56 |
| rs13026103 | 2 | 16611534 | A | G | 0.00961952 | 0.00175567 | 4.30E-08 | 0.0332723 | 0.0381013 | 0.382522 | 30 |
| rs13064797 | 3 | 173656059 | A | G | -0.0108506 | 0.00190707 | 1.30E-08 | 0.0591303 | 0.0392977 | 0.132408 | 32 |
| rs13107325 | 4 | 103188709 | T | C | 0.0323745 | 0.00292921 | 2.10E-28 | 0.0974393 | 0.149529 | 0.514633 | 122 |
| rs13174863 | 5 | 139080745 | G | A | 0.0128832 | 0.00218539 | 3.70E-09 | 0.0174043 | 0.0487274 | 0.72096 | 35 |
| rs1318408 | 1 | 11925781 | G | A | 0.0157919 | 0.00237893 | 3.20E-11 | -0.0757086 | 0.0699019 | 0.278778 | 44 |
| rs13292699 | 9 | 15910044 | C | A | -0.0200044 | 0.0015583 | 1.00E-37 | 0.100637 | 0.0346454 | 0.00367519 | 165 |
| rs13360957 | 5 | 179237896 | A | G | -0.0110008 | 0.00200581 | 4.10E-08 | -0.0543843 | 0.0495864 | 0.272747 | 30 |
| rs13389219 | 2 | 165528876 | T | C | 0.0170899 | 0.00157313 | 1.70E-27 | 0.00937124 | 0.0366123 | 0.797983 | 118 |
| rs13408397 | 2 | 69582028 | T | C | -0.0130723 | 0.0015614 | 5.70E-17 | -0.0445637 | 0.0358953 | 0.214425 | 70 |
| rs13436840 | 5 | 157926656 | T | C | 0.0136415 | 0.0017496 | 6.30E-15 | 0.0276675 | 0.0371891 | 0.456896 | 61 |
| rs1350429 | 12 | 41819131 | G | A | 0.00973719 | 0.00154554 | 3.00E-10 | -0.016444 | 0.0352209 | 0.640585 | 40 |
| rs1360278 | 1 | 209234358 | T | G | -0.00896325 | 0.00163485 | 4.20E-08 | 0.000110111 | 0.0359599 | 0.997557 | 30 |
| rs1377184 | 1 | 215246432 | T | A | 0.0127442 | 0.00178122 | 8.40E-13 | -0.0820558 | 0.0423943 | 0.0529237 | 51 |
| rs1421334 | 8 | 30865733 | C | A | -0.0113003 | 0.00155717 | 4.00E-13 | 0.0180633 | 0.0357322 | 0.613194 | 53 |
| rs1436348 | 3 | 104612668 | G | A | 0.0107963 | 0.00156132 | 4.70E-12 | 0.00500086 | 0.0361146 | 0.889867 | 48 |
| rs1441264 | 13 | 79580919 | A | G | 0.0119959 | 0.00160493 | 7.80E-14 | 0.0211555 | 0.0372896 | 0.57049 | 56 |
| rs1453055 | 2 | 181329491 | A | G | 0.0126532 | 0.00173398 | 2.90E-13 | -0.0431855 | 0.0370538 | 0.243824 | 53 |
| rs1456014 | 2 | 46899742 | G | A | -0.0150933 | 0.00190234 | 2.10E-15 | -0.0402921 | 0.049943 | 0.419803 | 63 |
| rs1469084 | 19 | 33868013 | G | A | 0.00878996 | 0.00154865 | 1.40E-08 | 0.0174252 | 0.0353016 | 0.621581 | 32 |
| rs1481881 | 11 | 13269536 | C | T | 0.0104895 | 0.0015625 | 1.90E-11 | -0.0942064 | 0.0346038 | 0.00648052 | 45 |
| rs149380583 | 15 | 80993786 | C | G | -0.0127741 | 0.00231146 | 3.30E-08 | 0.0376818 | 0.0718923 | 0.600181 | 31 |
| rs1503526 | 5 | 63020706 | C | T | 0.0113767 | 0.00154191 | 1.60E-13 | 0.0413528 | 0.0355452 | 0.244673 | 54 |
| rs1559900 | 8 | 14207321 | T | C | 0.00986943 | 0.00170532 | 7.10E-09 | -0.0435271 | 0.0400255 | 0.276823 | 33 |
| rs1568488 | 3 | 153657951 | C | G | 0.0117289 | 0.00158106 | 1.20E-13 | -0.0564091 | 0.036482 | 0.122052 | 55 |
| rs1597132 | 6 | 127947115 | C | T | -0.00878837 | 0.0015975 | 3.80E-08 | 0.0314615 | 0.0354233 | 0.374455 | 30 |
| rs16916303 | 9 | 30823761 | G | A | -0.0143754 | 0.00240082 | 2.10E-09 | 0.0395235 | 0.0521669 | 0.448669 | 36 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs16934748 | 10 | 33970319 | C | T | 0.0128932 | 0.00215901 | 2.30E-09 | -0.0509606 | 0.0479799 | 0.288179 | 36 |
| rs16996657 | 20 | 15816236 | C | T | 0.0140368 | 0.00231882 | 1.40E-09 | 0.0154993 | 0.0426182 | 0.716099 | 37 |
| rs17016133 | 3 | 25313167 | C | T | -0.0137367 | 0.00229121 | 2.00E-09 | 0.0226231 | 0.0459382 | 0.622389 | 36 |
| rs17024393 | 1 | 110154688 | C | T | 0.0474389 | 0.00485686 | 1.60E-22 | 0.100276 | 0.0749894 | 0.181159 | 95 |
| rs17055384 | 13 | 59285126 | T | C | -0.0123469 | 0.00200425 | 7.30E-10 | 0.0803744 | 0.0493991 | 0.103728 | 38 |
| rs17172722 | 7 | 46620312 | T | C | -0.010769 | 0.0015641 | 5.80E-12 | 0.00103004 | 0.0359022 | 0.977112 | 47 |
| rs17193211 | 21 | 38885506 | T | C | -0.0180452 | 0.00314532 | 9.60E-09 | -0.101198 | 0.0691884 | 0.143565 | 33 |
| rs1724557 | 4 | 137094048 | A | C | -0.0110497 | 0.0015726 | 2.10E-12 | 0.00757343 | 0.0348874 | 0.828144 | 49 |
| rs17522122 | 14 | 33302882 | T | G | 0.0126085 | 0.00155155 | 4.40E-16 | 0.00458013 | 0.0352319 | 0.896567 | 66 |
| rs1763839 | 1 | 8473336 | A | G | 0.0103215 | 0.00162703 | 2.20E-10 | -0.0860775 | 0.0361592 | 0.0172886 | 40 |
| rs17639996 | 3 | 61269668 | A | G | -0.0143309 | 0.00216477 | 3.60E-11 | 0.010342 | 0.0461035 | 0.822507 | 44 |
| rs17698176 | 17 | 44819595 | G | T | 0.0113269 | 0.00186038 | 1.10E-09 | -0.00205281 | 0.0382948 | 0.95725 | 37 |
| rs17704028 | 7 | 95140031 | T | C | -0.0146575 | 0.00217921 | 1.70E-11 | 0.060145 | 0.0432654 | 0.164486 | 45 |
| rs17770336 | 9 | 28414625 | T | C | 0.0154638 | 0.00164622 | 5.80E-21 | -0.0679965 | 0.0359132 | 0.0583109 | 88 |
| rs17820010 | 5 | 50384662 | G | T | 0.0124473 | 0.00168847 | 1.70E-13 | 0.0417849 | 0.0369377 | 0.257959 | 54 |
| rs1782508 | 11 | 30243795 | G | C | -0.00913519 | 0.00162015 | 1.70E-08 | 0.117271 | 0.0373028 | 0.00166794 | 32 |
| rs1787013 | 18 | 13072979 | C | T | 0.00961178 | 0.00155008 | 5.60E-10 | -0.0339804 | 0.035245 | 0.334986 | 38 |
| rs1788808 | 18 | 21090023 | G | A | -0.016282 | 0.0015462 | 6.30E-26 | 0.0290314 | 0.0349503 | 0.406172 | 111 |
| rs1799923 | 3 | 42306294 | G | A | 0.0140939 | 0.00242625 | 6.30E-09 | 0.0817887 | 0.0588875 | 0.164864 | 34 |
| rs1801282 | 3 | 12393125 | G | C | 0.0301151 | 0.0023675 | 4.60E-37 | 0.0114822 | 0.0462565 | 0.803957 | 162 |
| rs1808629 | 8 | 73435964 | A | G | -0.01632 | 0.00166697 | 1.20E-22 | -0.050833 | 0.0386226 | 0.188124 | 96 |
| rs1813039 | 8 | 76295984 | A | G | 0.0103333 | 0.00170753 | 1.40E-09 | 0.017587 | 0.0370568 | 0.635075 | 37 |
| rs1861410 | 2 | 58933591 | T | C | -0.0135852 | 0.0015523 | 2.10E-18 | 0.0112094 | 0.0357074 | 0.753579 | 77 |
| rs1881505 | 11 | 1483177 | C | T | -0.0191979 | 0.00335242 | 1.00E-08 | -0.0482663 | 0.103907 | 0.642278 | 33 |
| rs1887340 | 6 | 33730095 | T | C | -0.0128106 | 0.00182371 | 2.10E-12 | 0.0078739 | 0.0377968 | 0.834978 | 49 |
| rs1906252 | 6 | 98550289 | A | C | -0.0161687 | 0.00154706 | 1.40E-25 | 0.0478895 | 0.0349154 | 0.170192 | 109 |
| rs1928496 | 13 | 31012904 | T | C | 0.0108188 | 0.00176585 | 9.00E-10 | 0.0315982 | 0.0376069 | 0.400784 | 38 |
| rs1945160 | 18 | 22164216 | A | G | -0.00962166 | 0.0016001 | 1.80E-09 | 0.0369103 | 0.0360254 | 0.30557 | 36 |

| rs1991002 | 5 | 52848593 | G | T | -0.0100728 | 0.00154583 | 7.20E-11 | 0.0154567 | 0.0351116 | 0.659781 | 42 |
|-----------|---|----------|---|---|------------|------------|----------|-----------|-----------|----------|-----|
| rs2002023 | 10 | 76848524 | T | C | 0.0102433 | 0.00157002 | 6.80E-11 | -0.0109232 | 0.0350394 | 0.755237 | 43 |
| rs2008018 | 17 | 61954471 | A | G | 0.0110009 | 0.00164659 | 2.40E-11 | -0.00852435 | 0.0356224 | 0.810875 | 45 |
| rs2034946 | 17 | 73863589 | G | T | 0.0119487 | 0.00190099 | 3.30E-10 | -0.0319414 | 0.0476054 | 0.502245 | 40 |
| rs2108635 | 12 | 2159556 | G | A | 0.00983786 | 0.00163453 | 1.80E-09 | 0.0266235 | 0.0355884 | 0.454402 | 36 |
| rs21126 | 5 | 104013782 | A | G | -0.010022 | 0.00155797 | 1.30E-10 | 0.041911 | 0.0358178 | 0.241954 | 41 |
| rs215669 | 7 | 32378979 | A | G | -0.012096 | 0.00158845 | 2.60E-14 | 0.0436918 | 0.0388489 | 0.260734 | 58 |
| rs2165991 | 15 | 53101700 | G | A | 0.0117936 | 0.00178131 | 3.60E-11 | -0.104001 | 0.0472674 | 0.0277875 | 44 |
| rs2172131 | 10 | 133978962 | C | T | -0.0110832 | 0.00156255 | 1.30E-12 | 0.00835052 | 0.0350082 | 0.81147 | 50 |
| rs2178899 | 6 | 31606756 | T | A | -0.0191217 | 0.002297 | 8.50E-17 | -0.0353097 | 0.0702858 | 0.615405 | 69 |
| rs2190788 | 5 | 144484261 | T | G | 0.0110461 | 0.00166011 | 2.90E-11 | -0.024237 | 0.0377371 | 0.520704 | 44 |
| rs2192527 | 4 | 18329824 | G | A | 0.0141172 | 0.00154567 | 6.60E-20 | -0.0339813 | 0.0361835 | 0.34766 | 83 |
| rs2192649 | 7 | 78126279 | G | T | 0.00852919 | 0.00155109 | 3.80E-08 | 0.0255971 | 0.0348148 | 0.462195 | 30 |
| rs2208947 | 10 | 77657667 | G | A | 0.0112407 | 0.00175139 | 1.40E-10 | 0.0399477 | 0.0449722 | 0.374393 | 41 |
| rs2243928 | 13 | 111981707 | G | C | -0.0120426 | 0.00163641 | 1.90E-13 | -0.0525812 | 0.0357944 | 0.141838 | 54 |
| rs2276936 | 4 | 89726283 | C | A | -0.0123522 | 0.00154228 | 1.20E-15 | -0.0111939 | 0.0350669 | 0.749563 | 64 |
| rs2291127 | 3 | 138122477 | T | C | -0.0137926 | 0.00211992 | 7.70E-11 | -0.047158 | 0.0565617 | 0.404425 | 42 |
| rs2307111 | 5 | 75003678 | C | T | -0.0171461 | 0.00157693 | 1.50E-27 | 0.0314777 | 0.0353928 | 0.373797 | 118 |
| rs2371767 | 3 | 64718258 | C | G | 0.0117998 | 0.00171613 | 6.20E-12 | 0.0319425 | 0.0422597 | 0.449731 | 47 |
| rs2415142 | 15 | 73431600 | G | T | 0.0133595 | 0.00155278 | 7.70E-18 | -0.0125733 | 0.0351696 | 0.720714 | 74 |
| rs2470941 | 7 | 104582908 | A | G | 0.00903742 | 0.00157156 | 8.90E-09 | -0.0218244 | 0.0358281 | 0.54243 | 33 |
| rs2481899 | 14 | 56460686 | G | A | 0.00930927 | 0.00156135 | 2.50E-09 | -0.00865255 | 0.0351103 | 0.805342 | 36 |
| rs2499468 | 6 | 51809081 | A | C | 0.0100294 | 0.00161777 | 5.70E-10 | -0.00197028 | 0.0395653 | 0.960283 | 38 |
| rs2508782 | 11 | 94269813 | G | A | 0.00937803 | 0.00155792 | 1.70E-09 | 0.0690965 | 0.0357546 | 0.0532954 | 36 |
| rs252749 | 5 | 77389973 | A | G | -0.0102553 | 0.00178627 | 9.40E-09 | 0.0520663 | 0.0451805 | 0.249154 | 33 |
| rs256904 | 5 | 55810305 | T | A | -0.0111835 | 0.00176815 | 2.50E-10 | 0.0278394 | 0.0374668 | 0.457456 | 40 |
| rs262953 | 3 | 183467986 | A | G | -0.0102573 | 0.00159162 | 1.20E-10 | 0.0119586 | 0.035066 | 0.733079 | 42 |
| rs2640465 | 1 | 29569645 | G | A | 0.0158823 | 0.00259576 | 9.40E-10 | 0.0708979 | 0.0584333 | 0.22501 | 37 |
| rs2660241 | 16 | 4940023 | C | T | 0.0108857 | 0.00160421 | 1.20E-11 | 0.0419025 | 0.0366392 | 0.252767 | 46 |
| rs2678204 | 1 | 201800511 | G | T | 0.0136291 | 0.00162387 | 4.70E-17 | 0.0462214 | 0.0380149 | 0.224032 | 70 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs2702123 | 2 | 24562699 | C | T | -0.0152608 | 0.00274222 | 2.60E-08 | 0.0752808 | 0.0738454 | 0.307995 | 31 |
| rs2785988 | 1 | 219744138 | A | C | 0.0210728 | 0.00168127 | 4.90E-36 | 0.0711871 | 0.0381407 | 0.0619812 | 157 |
| rs2802774 | 1 | 203527812 | A | C | 0.0105954 | 0.00156929 | 1.50E-11 | -0.103633 | 0.0347644 | 0.0028731 | 46 |
| rs2814993 | 6 | 34618893 | A | G | 0.0259158 | 0.00221742 | 1.50E-31 | -0.148034 | 0.0437925 | 0.000723952 | 137 |
| rs2855818 | 17 | 42290015 | A | G | 0.0153102 | 0.00181772 | 3.70E-17 | 0.0290833 | 0.0395173 | 0.461752 | 71 |
| rs28613758 | 15 | 67368659 | T | C | 0.0100682 | 0.00154754 | 7.70E-11 | -0.0840065 | 0.0350923 | 0.0166717 | 42 |
| rs286511 | 11 | 85224799 | C | T | 0.012868 | 0.00209075 | 7.50E-10 | -0.0339418 | 0.0402541 | 0.399122 | 38 |
| rs28651380 | 4 | 34773227 | G | A | 0.0104262 | 0.00171657 | 1.20E-09 | 0.0428877 | 0.0389291 | 0.270598 | 37 |
| rs28672845 | 3 | 88270627 | C | A | 0.0115052 | 0.00209731 | 4.10E-08 | -0.0774073 | 0.0457214 | 0.0904524 | 30 |
| rs28714450 | 8 | 9777555 | T | C | -0.0101175 | 0.00165029 | 8.70E-10 | 0.00774729 | 0.0355231 | 0.827358 | 38 |
| rs28742003 | 15 | 68127769 | T | C | -0.021134 | 0.00191016 | 1.90E-28 | 0.0621374 | 0.0524471 | 0.236111 | 122 |
| rs2888778 | 2 | 41608611 | G | T | 0.00998353 | 0.00161504 | 6.30E-10 | -0.0543172 | 0.0408309 | 0.18342 | 38 |
| rs2943653 | 2 | 227047771 | T | C | -0.0155134 | 0.00163892 | 2.90E-21 | -0.0886752 | 0.036834 | 0.0160653 | 90 |
| rs2954033 | 8 | 126493746 | G | A | 0.0124143 | 0.00167398 | 1.20E-13 | -0.0684165 | 0.0395077 | 0.0833221 | 55 |
| rs2957678 | 11 | 10407955 | C | T | 0.0116378 | 0.00154184 | 4.40E-14 | 0.0391518 | 0.0349929 | 0.263204 | 57 |
| rs2960420 | 3 | 12314512 | G | C | -0.00912091 | 0.00162066 | 1.80E-08 | -0.0172261 | 0.0361864 | 0.634049 | 32 |
| rs2966859 | 16 | 85324544 | G | A | -0.0111483 | 0.00189749 | 4.20E-09 | 0.044164 | 0.0426767 | 0.300738 | 35 |
| rs2984618 | 1 | 47690438 | T | G | 0.0117369 | 0.0015617 | 5.70E-14 | -0.0264191 | 0.0361622 | 0.46504 | 56 |
| rs3113509 | 4 | 52932825 | T | C | -0.0107277 | 0.00174038 | 7.10E-10 | 0.0356992 | 0.0386608 | 0.355802 | 38 |
| rs319775 | 17 | 31495076 | C | T | 0.00883995 | 0.00158047 | 2.20E-08 | -0.000320803 | 0.0354731 | 0.992784 | 31 |
| rs33836 | 19 | 34008600 | T | C | -0.0163804 | 0.00156772 | 1.50E-25 | 0.0603566 | 0.0351603 | 0.0860498 | 109 |
| rs34045288 | 6 | 40369081 | T | C | 0.0143846 | 0.0016329 | 1.30E-18 | 0.0159893 | 0.0360601 | 0.65747 | 78 |
| rs34483452 | 5 | 87986314 | A | C | 0.0245244 | 0.00226433 | 2.50E-27 | -0.0656089 | 0.0533646 | 0.218905 | 117 |
| rs34580448 | 5 | 82810884 | C | T | -0.0308051 | 0.00388142 | 2.10E-15 | 0.0305115 | 0.136161 | 0.822693 | 63 |
| rs34656389 | 4 | 96153214 | G | A | 0.0103136 | 0.00159872 | 1.10E-10 | -0.0176976 | 0.0349854 | 0.612957 | 42 |
| rs35154152 | 1 | 155172725 | C | T | -0.0177569 | 0.00249206 | 1.00E-12 | -0.087705 | 0.0784082 | 0.263324 | 51 |
| rs3754963 | 2 | 166185707 | T | A | -0.0114802 | 0.00176393 | 7.60E-11 | 0.0101439 | 0.037893 | 0.788931 | 42 |
| rs3764002 | 12 | 108618630 | T | C | -0.0186517 | 0.00175335 | 2.00E-26 | -0.0152617 | 0.0368548 | 0.678797 | 113 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs3766823 | 1 | 32197257 | A | G | 0.0140143 | 0.00203896 | 6.30E-12 | -0.0377854 | 0.0419101 | 0.367278 | 47 |
| rs3791709 | 2 | 212286934 | T | A | 0.0103311 | 0.00171169 | 1.60E-09 | -0.000857894 | 0.0391234 | 0.982505 | 36 |
| rs3803286 | 14 | 103246470 | G | A | -0.0115932 | 0.00163624 | 1.40E-12 | 0.00857212 | 0.0369344 | 0.816468 | 50 |
| rs3817428 | 15 | 89415247 | G | C | -0.0152755 | 0.00174905 | 2.50E-18 | -0.078732 | 0.0377261 | 0.0368935 | 76 |
| rs3826408 | 17 | 7101292 | T | C | 0.00915425 | 0.00154807 | 3.40E-09 | 0.0190868 | 0.034891 | 0.58435 | 35 |
| rs3846949 | 6 | 15371243 | T | C | 0.0089638 | 0.00164071 | 4.70E-08 | 0.00738383 | 0.0388888 | 0.849411 | 30 |
| rs3911063 | 3 | 85906928 | C | T | -0.0121841 | 0.00165127 | 1.60E-13 | 0.0281407 | 0.036407 | 0.439553 | 54 |
| rs3923501 | 9 | 103065884 | T | C | 0.0102177 | 0.00154181 | 3.40E-11 | -0.0269248 | 0.0349309 | 0.440825 | 44 |
| rs394608 | 21 | 46581798 | C | T | 0.0123902 | 0.00155475 | 1.60E-15 | 0.0359066 | 0.0353066 | 0.309156 | 64 |
| rs396354 | 2 | 86850022 | C | T | -0.00986214 | 0.00170937 | 8.00E-09 | -0.00382912 | 0.0392793 | 0.922342 | 33 |
| rs40071 | 5 | 107496102 | C | T | -0.014887 | 0.00201352 | 1.40E-13 | -0.0238946 | 0.0427947 | 0.576602 | 55 |
| rs41307479 | 9 | 116082647 | G | C | 0.0124051 | 0.00185992 | 2.60E-11 | 0.0636858 | 0.0426658 | 0.135525 | 44 |
| rs41310284 | 10 | 102447647 | A | C | -0.0201214 | 0.00257596 | 5.70E-15 | 0.0273018 | 0.0629091 | 0.664297 | 61 |
| rs429343 | 2 | 147903382 | G | A | -0.0111228 | 0.00155872 | 9.60E-13 | 0.0463981 | 0.0350273 | 0.185294 | 51 |
| rs429358 | 19 | 45411941 | C | T | -0.0215029 | 0.00213952 | 9.20E-24 | -0.0100734 | 0.044818 | 0.822164 | 101 |
| rs4320040 | 3 | 157884946 | G | T | -0.0101838 | 0.00154798 | 4.70E-11 | 0.0582024 | 0.0361996 | 0.107875 | 43 |
| rs4398538 | 4 | 130724740 | C | T | -0.010008 | 0.00161101 | 5.20E-10 | 0.0119796 | 0.0356683 | 0.736975 | 39 |
| rs441792 | 2 | 105404221 | G | A | 0.0119298 | 0.00154217 | 1.00E-14 | 0.0102249 | 0.0350887 | 0.770744 | 60 |
| rs4466418 | 8 | 126323787 | A | G | 0.00997781 | 0.00155638 | 1.40E-10 | 0.0228902 | 0.0352068 | 0.515587 | 41 |
| rs4482463 | 2 | 205375909 | A | C | -0.0211076 | 0.00289361 | 3.00E-13 | -0.0193708 | 0.0739078 | 0.793248 | 53 |
| rs4500770 | 16 | 74658430 | T | A | -0.00977478 | 0.00160607 | 1.20E-09 | 0.0538523 | 0.038618 | 0.16317 | 37 |
| rs4547574 | 2 | 48541003 | T | A | -0.0105978 | 0.00183563 | 7.80E-09 | 0.0127689 | 0.0432257 | 0.767687 | 33 |
| rs4690324 | 4 | 960081 | A | G | -0.0126754 | 0.00202574 | 3.90E-10 | -0.0178992 | 0.0464048 | 0.699705 | 39 |
| rs4709745 | 6 | 164105984 | C | T | 0.00934269 | 0.00167115 | 2.30E-08 | 0.0104551 | 0.040697 | 0.797255 | 31 |
| rs4718964 | 7 | 70038969 | T | G | 0.0111105 | 0.00157055 | 1.50E-12 | 0.0608092 | 0.0355375 | 0.0870583 | 50 |
| rs4722398 | 7 | 3125220 | T | C | 0.0143436 | 0.00224286 | 1.60E-10 | 0.0431741 | 0.0691511 | 0.532401 | 41 |
| rs4759318 | 12 | 54420098 | T | C | 0.0104428 | 0.00160707 | 8.10E-11 | -0.0553073 | 0.0355518 | 0.119784 | 42 |
| rs4762951 | 12 | 20543307 | G | A | -0.0113662 | 0.00186311 | 1.10E-09 | -0.00697828 | 0.0497024 | 0.888343 | 37 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| rs479018 | 11 | 66060546 | A | G | -0.0144775 | 0.00166392 | 3.30E-18 | -0.0148377 | 0.0378085 | 0.694732 | 76 |
| rs4808844 | 19 | 18811966 | G | A | -0.0143046 | 0.00157998 | 1.40E-19 | -0.0155322 | 0.0349997 | 0.657202 | 82 |
| rs4820323 | 22 | 38599767 | G | C | -0.0169383 | 0.00156868 | 3.50E-27 | 0.0380625 | 0.0356312 | 0.285414 | 117 |
| rs482787 | 10 | 99767024 | C | T | 0.0092676 | 0.00164764 | 1.90E-08 | 0.0108926 | 0.0394198 | 0.782299 | 32 |
| rs4876611 | 8 | 116671848 | G | A | 0.0173998 | 0.00171871 | 4.30E-24 | 0.0248476 | 0.0377908 | 0.510857 | 102 |
| rs4908676 | 1 | 7737099 | G | A | 0.00966112 | 0.00154844 | 4.40E-10 | -0.0281144 | 0.0350494 | 0.422474 | 39 |
| rs4947124 | 6 | 111895728 | A | G | 0.0101717 | 0.00170183 | 2.30E-09 | -0.0633069 | 0.0418525 | 0.130376 | 36 |
| rs4959613 | 6 | 1835403 | A | C | 0.00955622 | 0.00161789 | 3.50E-09 | -0.00945389 | 0.0356274 | 0.790737 | 35 |
| rs529200 | 3 | 173114305 | G | A | 0.0106966 | 0.00154338 | 4.20E-12 | 0.0195231 | 0.0351112 | 0.578185 | 48 |
| rs543874 | 1 | 177889480 | G | A | 0.0301643 | 0.00190436 | 1.70E-56 | -0.0719728 | 0.0453092 | 0.112178 | 251 |
| rs55707359 | 11 | 46159333 | G | T | 0.0375397 | 0.00633223 | 3.10E-09 | -0.816567 | 0.480625 | 0.0893244 | 35 |
| rs55810445 | 7 | 2103739 | T | C | -0.0140163 | 0.00215528 | 7.90E-11 | -0.0880258 | 0.0435199 | 0.0431082 | 42 |
| rs55924785 | 9 | 136929586 | T | C | -0.0123455 | 0.00207928 | 2.90E-09 | 0.0333497 | 0.0433143 | 0.441332 | 35 |
| rs56094641 | 16 | 53806453 | G | A | 0.041033 | 0.00157131 | 2.50E-150 | 0.0377487 | 0.0352496 | 0.284215 | 682 |
| rs56218501 | 20 | 46365636 | T | C | -0.0128916 | 0.00188796 | 8.60E-12 | -0.0231145 | 0.0541755 | 0.669629 | 47 |
| rs56328878 | 2 | 159459040 | A | C | -0.00975461 | 0.00173683 | 2.00E-08 | -0.0410136 | 0.0390644 | 0.293765 | 32 |
| rs56399737 | 13 | 33381721 | T | C | -0.0118589 | 0.00155668 | 2.60E-14 | -0.0482932 | 0.0352357 | 0.170507 | 58 |
| rs57636386 | 18 | 58048295 | C | T | -0.0252015 | 0.00279375 | 1.90E-19 | 0.021692 | 0.0795643 | 0.785134 | 81 |
| rs57800857 | 4 | 140863365 | C | A | -0.0133302 | 0.00160952 | 1.20E-16 | -1.03624 | 0.61352 | 0.0912179 | 69 |
| rs58083390 | 4 | 73549559 | T | C | 0.0213019 | 0.00307029 | 4.00E-12 | -0.021835 | 0.0637571 | 0.731996 | 48 |
| rs58120873 | 2 | 47313562 | A | G | -0.0163391 | 0.00274979 | 2.80E-09 | 0.175677 | 0.060189 | 0.00351423 | 35 |
| rs58862095 | 7 | 75081418 | T | C | -0.0131217 | 0.00156604 | 5.30E-17 | -0.0311717 | 0.0348941 | 0.371683 | 70 |
| rs59227842 | 11 | 43692423 | G | A | 0.0170384 | 0.00167907 | 3.40E-24 | 0.0338064 | 0.0375372 | 0.367796 | 103 |
| rs59499656 | 18 | 40768309 | T | A | -0.0137829 | 0.00163035 | 2.80E-17 | 0.0298698 | 0.035545 | 0.400719 | 71 |
| rs59514011 | 7 | 39065516 | G | A | -0.0106396 | 0.00155409 | 7.60E-12 | -0.0198615 | 0.0351892 | 0.572468 | 47 |
| rs6064113 | 20 | 53444487 | C | T | -0.0105166 | 0.00185641 | 1.50E-08 | -0.0498848 | 0.0447966 | 0.265457 | 32 |
| rs60661769 | 4 | 80811207 | A | T | 0.0114801 | 0.00161317 | 1.10E-12 | 0.00219484 | 0.0402897 | 0.956556 | 51 |
| rs6103254 | 20 | 41990761 | C | T | -0.0147849 | 0.00232906 | 2.20E-10 | 0.121568 | 0.0576529 | 0.0349776 | 40 |
| rs61754230 | 12 | 72179446 | T | C | 0.0312346 | 0.00554241 | 1.70E-08 | -0.128276 | 0.238833 | 0.591201 | 32 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs61903695 | 11 | 89922417 | G | A | 0.0118139 | 0.00177153 | 2.60E-11 | 0.00704108 | 0.0405632 | 0.862193 | 44 |
| rs61910767 | 11 | 134515899 | T | C | -0.0142941 | 0.00208312 | 6.80E-12 | -0.0396314 | 0.0502658 | 0.430441 | 47 |
| rs61969510 | 13 | 86484025 | C | T | 0.0127422 | 0.00173502 | 2.10E-13 | 0.0118763 | 0.0360801 | 0.742031 | 54 |
| rs61975147 | 14 | 59416558 | C | T | -0.0142041 | 0.00207301 | 7.30E-12 | 0.0275639 | 0.0412235 | 0.503722 | 47 |
| rs61986205 | 14 | 41271485 | G | A | 0.0189406 | 0.00283307 | 2.30E-11 | -0.013898 | 0.0982655 | 0.887528 | 45 |
| rs62107261 | 2 | 422144 | C | T | -0.0479135 | 0.00359643 | 1.70E-40 | -0.139981 | 0.125136 | 0.263299 | 177 |
| rs62190394 | 2 | 230624929 | T | C | 0.0151644 | 0.00165383 | 4.80E-20 | 0.0174901 | 0.0375426 | 0.641306 | 84 |
| rs62218301 | 21 | 36741262 | G | A | -0.0127956 | 0.00208683 | 8.70E-10 | -0.0754173 | 0.0451711 | 0.0949992 | 38 |
| rs62413414 | 6 | 80310375 | T | C | 0.0126824 | 0.00214424 | 3.30E-09 | -0.00946445 | 0.0494074 | 0.848087 | 35 |
| rs62621197 | 19 | 8670147 | T | C | -0.0249637 | 0.00423712 | 3.80E-09 | -0.0509761 | 0.128381 | 0.691317 | 35 |
| rs6491427 | 13 | 99113166 | G | A | -0.013993 | 0.00170162 | 2.00E-16 | -0.0193797 | 0.0397779 | 0.626119 | 68 |
| rs6500594 | 16 | 4316498 | G | T | 0.0110602 | 0.00179199 | 6.70E-10 | 0.0173998 | 0.0375747 | 0.643313 | 38 |
| rs6561937 | 13 | 58257667 | A | T | -0.0117153 | 0.00179629 | 6.90E-11 | 0.0223689 | 0.0433272 | 0.60566 | 43 |
| rs6567160 | 18 | 57829135 | C | T | 0.0254579 | 0.00182642 | 3.70E-44 | -0.146615 | 0.0459871 | 0.00143176 | 194 |
| rs6575340 | 14 | 94023972 | A | G | 0.0133993 | 0.00160775 | 7.80E-17 | -0.0151419 | 0.0360304 | 0.6743 | 69 |
| rs6602997 | 15 | 84521398 | T | C | 0.0226029 | 0.00170655 | 4.80E-40 | 0.0390406 | 0.0372508 | 0.294616 | 175 |
| rs6693294 | 1 | 49879122 | G | A | -0.0136932 | 0.0016614 | 1.70E-16 | 0.00867164 | 0.0359988 | 0.809643 | 68 |
| rs67180261 | 1 | 195083179 | G | A | -0.0119235 | 0.00188567 | 2.60E-10 | -0.0452687 | 0.0399994 | 0.257746 | 40 |
| rs6744646 | 2 | 628504 | G | A | 0.028139 | 0.00203811 | 2.30E-43 | -0.0917342 | 0.0477939 | 0.0549376 | 191 |
| rs6749911 | 2 | 105962339 | A | G | 0.0126967 | 0.00230925 | 3.80E-08 | -0.102917 | 0.0563551 | 0.0678172 | 30 |
| rs6750646 | 2 | 193872415 | T | C | -0.0117765 | 0.00192871 | 1.00E-09 | -0.0463228 | 0.0468927 | 0.323228 | 37 |
| rs6752378 | 2 | 25150116 | A | C | 0.0224027 | 0.00153822 | 4.80E-48 | -0.0228641 | 0.0354081 | 0.518454 | 212 |
| rs6754292 | 2 | 217614584 | T | C | -0.00932639 | 0.00161898 | 8.40E-09 | -0.0287208 | 0.0354164 | 0.417397 | 33 |
| rs67609008 | 10 | 126640936 | C | T | 0.0113458 | 0.00171702 | 3.90E-11 | -0.0699267 | 0.0452436 | 0.122211 | 44 |
| rs6799532 | 3 | 108118700 | C | T | 0.00943178 | 0.0016694 | 1.60E-08 | -0.0465866 | 0.0383821 | 0.22484 | 32 |
| rs6840236 | 4 | 56289785 | C | T | 0.0121284 | 0.00154596 | 4.30E-15 | 0.0529131 | 0.0349173 | 0.129675 | 62 |
| rs685149 | 11 | 57657413 | G | A | -0.00954107 | 0.00161396 | 3.40E-09 | 0.0170605 | 0.0359003 | 0.634631 | 35 |
| rs6875585 | 5 | 95593462 | C | A | 0.011204 | 0.00164464 | 9.60E-12 | -0.0137199 | 0.0352592 | 0.697191 | 46 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs6927268 | 6 | 108865663 | G | T | -0.0138777 | 0.00190462 | 3.20E-13 | -0.0131458 | 0.0382098 | 0.730814 | 53 |
| rs6948959 | 7 | 50697051 | A | G | -0.0105935 | 0.00177956 | 2.60E-09 | 0.0608303 | 0.036021 | 0.0912683 | 35 |
| rs6973656 | 7 | 77422583 | G | A | 0.00928324 | 0.00157441 | 3.70E-09 | -0.0346732 | 0.0363495 | 0.340143 | 35 |
| rs6977416 | 7 | 150542711 | A | G | -0.0118159 | 0.00164828 | 7.60E-13 | 0.0451495 | 0.03629 | 0.213451 | 51 |
| rs6998660 | 8 | 143373972 | G | A | 0.00919453 | 0.00155062 | 3.00E-09 | 0.0149648 | 0.0351884 | 0.670635 | 35 |
| rs7020 | 20 | 25278600 | A | G | 0.0130676 | 0.00155587 | 4.50E-17 | 0.023543 | 0.035005 | 0.501226 | 71 |
| rs7027304 | 9 | 129408290 | T | C | 0.011578 | 0.0016271 | 1.10E-12 | -0.0328003 | 0.0392726 | 0.403607 | 51 |
| rs704061 | 12 | 89771903 | C | T | 0.0136927 | 0.00154796 | 9.10E-19 | -0.0277958 | 0.0360747 | 0.440999 | 78 |
| rs7046679 | 9 | 124638934 | G | C | -0.00914252 | 0.00165304 | 3.20E-08 | -0.00123797 | 0.0369316 | 0.973259 | 31 |
| rs7070670 | 10 | 61842645 | T | C | -0.00950076 | 0.00165236 | 8.90E-09 | -0.0449972 | 0.0386993 | 0.244935 | 33 |
| rs7124681 | 11 | 47529947 | A | C | 0.0222563 | 0.0015648 | 6.60E-46 | -0.0373065 | 0.0355939 | 0.294586 | 202 |
| rs7132908 | 12 | 50263148 | A | G | 0.0197321 | 0.00158551 | 1.50E-35 | -0.0417197 | 0.0359254 | 0.245525 | 155 |
| rs7133378 | 12 | 124409502 | A | G | 0.0185779 | 0.00165616 | 3.30E-29 | -0.0452092 | 0.0389634 | 0.245926 | 126 |
| rs71658797 | 1 | 77967507 | A | T | 0.0236276 | 0.00236585 | 1.70E-23 | -0.0438849 | 0.0522547 | 0.401005 | 100 |
| rs7193901 | 16 | 20263764 | C | T | -0.014315 | 0.00220956 | 9.30E-11 | -0.0238252 | 0.041902 | 0.569633 | 42 |
| rs719802 | 11 | 113234679 | C | T | -0.0115343 | 0.0015826 | 3.10E-13 | -0.0602602 | 0.036949 | 0.102911 | 53 |
| rs7206608 | 16 | 82872628 | G | C | 0.0101676 | 0.00165236 | 7.60E-10 | 0.0209985 | 0.0364139 | 0.564169 | 38 |
| rs7216121 | 17 | 21281663 | G | A | -0.0109061 | 0.00161091 | 1.30E-11 | 0.0124757 | 0.0360838 | 0.729536 | 46 |
| rs7218014 | 17 | 65832016 | C | T | 0.0211077 | 0.00194282 | 1.70E-27 | 0.0197264 | 0.041021 | 0.630597 | 118 |
| rs72634814 | 1 | 1538046 | A | G | -0.0128866 | 0.00169042 | 2.50E-14 | 0.0085218 | 0.0380179 | 0.822639 | 58 |
| rs72681698 | 14 | 51207741 | C | T | -0.052548 | 0.00748992 | 2.30E-12 | 0.141721 | 0.448805 | 0.752173 | 49 |
| rs72697297 | 14 | 93069989 | C | T | -0.0153167 | 0.00203008 | 4.50E-14 | -0.0321745 | 0.0500498 | 0.520322 | 57 |
| rs72755233 | 15 | 100692953 | A | G | -0.0163172 | 0.0024497 | 2.70E-11 | 0.0855586 | 0.0551955 | 0.121118 | 44 |
| rs72767957 | 15 | 99240793 | G | A | -0.012668 | 0.00193068 | 5.30E-11 | -0.0180312 | 0.0458505 | 0.694127 | 43 |
| rs72803260 | 16 | 51806701 | G | T | -0.0156141 | 0.0027727 | 1.80E-08 | -0.0223508 | 0.109941 | 0.838902 | 32 |
| rs72827858 | 17 | 46474361 | G | A | -0.00939906 | 0.00171423 | 4.20E-08 | 0.0192092 | 0.037799 | 0.611318 | 30 |
| rs72892910 | 6 | 50816887 | T | G | 0.0221404 | 0.00204337 | 2.30E-27 | -0.00690911 | 0.0433407 | 0.873343 | 117 |
| rs72917533 | 2 | 175238924 | C | T | -0.0138669 | 0.0019837 | 2.70E-12 | 0.0525047 | 0.0501027 | 0.294666 | 49 |

| rs72976986 | 19 | 4050424 | A | G | -0.0171142 | 0.00198547 | 6.70E-18 | 0.0114963 | 0.0482115 | 0.811527 | 74 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| rs72995085 | 6 | 143193971 | C | T | -0.0117629 | 0.00202255 | 6.00E-09 | 0.0141866 | 0.0425606 | 0.738887 | 34 |
| rs73213501 | 4 | 28514830 | C | A | -0.0152527 | 0.00204286 | 8.20E-14 | 0.0297682 | 0.0417981 | 0.476348 | 56 |
| rs7357754 | 9 | 92207308 | G | A | 0.0116159 | 0.00154667 | 5.90E-14 | -0.0226549 | 0.034913 | 0.516406 | 56 |
| rs74288880 | 5 | 59275800 | T | C | -0.0135582 | 0.00241631 | 2.00E-08 | 0.173807 | 0.0762961 | 0.0227227 | 31 |
| rs7442885 | 5 | 87682877 | G | C | -0.0128176 | 0.00188108 | 9.50E-12 | -0.0354836 | 0.0450633 | 0.431037 | 46 |
| rs74576293 | 12 | 3351169 | C | T | -0.0204973 | 0.002693 | 2.70E-14 | -0.0386584 | 0.0745626 | 0.604132 | 58 |
| rs74618095 | 21 | 40683196 | C | T | 0.0132675 | 0.00213178 | 4.90E-10 | -0.0339665 | 0.0405383 | 0.402095 | 39 |
| rs7463186 | 8 | 87517201 | G | A | 0.0088055 | 0.00154188 | 1.10E-08 | -0.0177847 | 0.0352339 | 0.613727 | 33 |
| rs75135487 | 3 | 185805294 | G | C | -0.0144347 | 0.00223876 | 1.10E-10 | 0.0222477 | 0.0584585 | 0.703521 | 42 |
| rs7531118 | 1 | 72837239 | C | T | 0.0127665 | 0.0015529 | 2.00E-16 | 0.0683655 | 0.0354024 | 0.0534712 | 68 |
| rs7535438 | 1 | 42635359 | A | C | -0.00950812 | 0.00169742 | 2.10E-08 | 0.0812093 | 0.0405586 | 0.0452554 | 31 |
| rs75412871 | 12 | 121709430 | T | C | -0.0216364 | 0.00347856 | 5.00E-10 | -0.0935289 | 0.0702174 | 0.182863 | 39 |
| rs7575523 | 2 | 59335104 | G | T | -0.0153971 | 0.00157743 | 1.70E-22 | -0.0952243 | 0.0352665 | 0.00693123 | 95 |
| rs7598246 | 2 | 172866359 | C | T | 0.0085494 | 0.00156226 | 4.40E-08 | 0.0191779 | 0.0354048 | 0.588042 | 30 |
| rs76115890 | 13 | 91993627 | C | T | -0.0139023 | 0.00241521 | 8.60E-09 | -0.0347886 | 0.0525138 | 0.507673 | 33 |
| rs76345589 | 3 | 84185140 | G | C | -0.0198865 | 0.00308056 | 1.10E-10 | 0.159075 | 0.0814887 | 0.0509249 | 42 |
| rs764729 | 2 | 161126732 | C | A | 0.0101067 | 0.00173115 | 5.30E-09 | 0.0397156 | 0.043723 | 0.363696 | 34 |
| rs7680610 | 4 | 24118165 | G | A | 0.0089709 | 0.00163023 | 3.70E-08 | 0.00811606 | 0.0375399 | 0.828833 | 30 |
| rs76856798 | 1 | 243922215 | T | C | 0.0322372 | 0.00573378 | 1.90E-08 | 0.164123 | 0.121874 | 0.178088 | 32 |
| rs7762794 | 6 | 153380228 | G | A | 0.00930584 | 0.00170461 | 4.80E-08 | -0.060481 | 0.0368539 | 0.100776 | 30 |
| rs7773916 | 6 | 70339118 | T | C | -0.0109353 | 0.00188165 | 6.20E-09 | -0.0377316 | 0.049407 | 0.445052 | 34 |
| rs7789056 | 7 | 112908269 | A | G | -0.0127186 | 0.00155559 | 2.90E-16 | -0.0244695 | 0.0356103 | 0.49199 | 67 |
| rs7796825 | 7 | 14317417 | A | G | 0.0113141 | 0.00203645 | 2.80E-08 | -0.0104296 | 0.0485656 | 0.829961 | 31 |
| rs78296744 | 12 | 122479308 | A | G | -0.0132887 | 0.00173423 | 1.80E-14 | 0.0120481 | 0.0402523 | 0.7647 | 59 |
| rs7843109 | 8 | 112360702 | T | C | 0.0103657 | 0.00166877 | 5.20E-10 | -0.0975344 | 0.0367141 | 0.00789351 | 39 |
| rs78744936 | 17 | 7461343 | A | G | 0.0113474 | 0.00175799 | 1.10E-10 | 0.0361312 | 0.041253 | 0.381115 | 42 |
| rs7893571 | 10 | 16750129 | T | G | 0.0100326 | 0.00163856 | 9.20E-10 | -0.00233748 | 0.0379031 | 0.950826 | 37 |
| rs7925725 | 11 | 131449365 | C | A | 0.0111592 | 0.00156858 | 1.10E-12 | -0.0745562 | 0.0355822 | 0.0361427 | 51 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs7942368 | 11 | 76465362 | T | C | -0.0105396 | 0.00189331 | 2.60E-08 | -0.0302851 | 0.0431864 | 0.483138 | 31 |
| rs79518326 | 1 | 174946883 | A | C | -0.0322259 | 0.00466633 | 5.00E-12 | -0.0735563 | 0.154912 | 0.634911 | 48 |
| rs7960609 | 12 | 18161569 | G | A | 0.00918558 | 0.00164856 | 2.50E-08 | -0.00564136 | 0.0415017 | 0.891876 | 31 |
| rs7966251 | 12 | 103731395 | A | G | -0.00981406 | 0.00177103 | 3.00E-08 | 0.0980169 | 0.0388821 | 0.0117066 | 31 |
| rs7972728 | 12 | 123076778 | A | C | 0.0167619 | 0.00175434 | 1.20E-21 | -0.0508616 | 0.0433752 | 0.240958 | 91 |
| rs7975187 | 12 | 60964108 | G | A | 0.0115294 | 0.00188095 | 8.80E-10 | 0.0175351 | 0.0442398 | 0.691836 | 38 |
| rs798549 | 7 | 2760750 | A | C | -0.00992339 | 0.00174424 | 1.30E-08 | -0.0158229 | 0.0421243 | 0.707198 | 32 |
| rs7987928 | 13 | 54372377 | A | G | -0.0138119 | 0.00193112 | 8.50E-13 | 0.0143492 | 0.0442114 | 0.745516 | 51 |
| rs8096564 | 18 | 39910592 | T | G | 0.0107485 | 0.00169686 | 2.40E-10 | -0.071548 | 0.0363003 | 0.0487237 | 40 |
| rs811054 | 16 | 72251132 | T | C | 0.0095458 | 0.00155694 | 8.70E-10 | -0.00826517 | 0.0359608 | 0.818217 | 38 |
| rs812949 | 5 | 170506141 | C | T | 0.0133557 | 0.00173358 | 1.30E-14 | 0.0443079 | 0.037369 | 0.235746 | 59 |
| rs815163 | 1 | 190294726 | C | T | -0.00909072 | 0.00154941 | 4.40E-09 | 0.0271645 | 0.0350243 | 0.437992 | 34 |
| rs843901 | 20 | 32904636 | G | T | 0.0194862 | 0.00316613 | 7.50E-10 | 0.0324916 | 0.0599835 | 0.588043 | 38 |
| rs853961 | 6 | 127003464 | T | G | 0.0122048 | 0.00154046 | 2.30E-15 | 0.0271863 | 0.0349066 | 0.43608 | 63 |
| rs879620 | 16 | 4015729 | T | C | 0.014719 | 0.00158851 | 1.90E-20 | 0.0235169 | 0.0353794 | 0.506237 | 86 |
| rs881929 | 16 | 31079371 | T | G | -0.0147342 | 0.00159151 | 2.10E-20 | 0.0312579 | 0.0357868 | 0.382419 | 86 |
| rs885114 | 11 | 8678756 | A | G | -0.0146358 | 0.00172806 | 2.50E-17 | -0.0365486 | 0.0396064 | 0.356115 | 72 |
| rs9289630 | 3 | 141178670 | C | G | 0.0123827 | 0.00158474 | 5.60E-15 | -0.0491281 | 0.0375902 | 0.191233 | 61 |
| rs9304665 | 19 | 47602577 | A | T | 0.0118765 | 0.00182093 | 6.90E-11 | 0.028257 | 0.0385684 | 0.463774 | 43 |
| rs9321191 | 6 | 130165691 | C | T | -0.0108699 | 0.0019277 | 1.70E-08 | -0.0113031 | 0.0500832 | 0.821445 | 32 |
| rs9372414 | 6 | 97764299 | T | C | -0.00933072 | 0.00162144 | 8.70E-09 | -0.0292765 | 0.0361782 | 0.418382 | 33 |
| rs9379833 | 6 | 26207175 | A | C | -0.023505 | 0.00174566 | 2.50E-41 | 0.0400913 | 0.0353477 | 0.256711 | 181 |
| rs9389857 | 6 | 141372966 | T | C | 0.0198061 | 0.00346457 | 1.10E-08 | 0.103333 | 0.0999824 | 0.301362 | 33 |
| rs9568867 | 13 | 54107352 | A | G | 0.0193443 | 0.00231898 | 7.30E-17 | -0.0794253 | 0.0502723 | 0.114129 | 70 |
| rs957919 | 3 | 131629716 | T | C | 0.0138914 | 0.00171911 | 6.40E-16 | 0.0552602 | 0.0394594 | 0.161384 | 65 |
| rs972283 | 7 | 130466854 | G | A | -0.0143133 | 0.00154037 | 1.50E-20 | -0.00227726 | 0.0349912 | 0.94811 | 86 |
| rs9788550 | 14 | 29681138 | C | G | -0.0158356 | 0.00179488 | 1.10E-18 | -0.0109859 | 0.0367522 | 0.765003 | 78 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| rs9814758 | 3 | 123062657 | G | T | -0.0136044 | 0.00161607 | 3.80E-17 | 0.0326522 | 0.037556 | 0.384614 | 71 |
| rs9843653 | 3 | 49920571 | C | T | 0.0167794 | 0.00154077 | 1.30E-27 | -0.083013 | 0.0357148 | 0.0201081 | 119 |
| rs9865173 | 3 | 44016658 | A | T | -0.0120222 | 0.00168776 | 1.10E-12 | -0.0184533 | 0.0354321 | 0.6025 | 51 |
| rs9892466 | 17 | 3969527 | A | T | 0.0100634 | 0.00163774 | 8.00E-10 | 0.0764299 | 0.0378384 | 0.043394 | 38 |
| rs9955276 | 18 | 1839339 | T | C | 0.0127569 | 0.00220651 | 7.40E-09 | -0.0229608 | 0.0462708 | 0.619735 | 33 |

14     *Note.* Chr, chromosome; Beta, beta-coefficient; F, F-statistic; OCD, Obsessive-compulsive disorder; SE, standard error.

15 **Supplementary Table S5** The respective causal relations between body fat mass, body
16 fat-free mass, body fat rate, and obsessive-compulsive disorder

| Exposure variable | Method | No. of SNPs | OR | 95% CI | P | P-het | P-intercept | P-global |
|---|---|---|---|---|---|---|---|---|
| Body fat mass | MR Egger | 396 | 0.602 | (0.295, 1.227) | 0.163 | | 0.720 | |
| | Weighted median | 396 | 0.633 | (0.438, 0.915) | **0.015** | | | |
| | IVW | 396 | 0.680 | (0.528, 0.875) | **0.003** | **< 0.001** | | |
| | Simple mode | 396 | 0.883 | (0.260, 2.996) | 0.841 | | | |
| | Weighted mode | 396 | 0.608 | (0.199, 1.861) | 0.384 | | | |
| | MR-PRESSO | 396 | 0.680 | (0.528, 0.875) | **0.003** | | | **< 0.001** |
| Fat-free mass | MR Egger | 512 | 0.426 | (0.216, 0.840) | **0.014** | | **0.041** | |
| | Weighted median | 512 | 0.728 | (0.468, 1.131) | 0.158 | | | |
| | IVW | 512 | 0.810 | (0.606, 1.082) | 0.154 | **0.003** | | |
| | Simple mode | 512 | 0.375 | (0.085, 1.650) | 0.195 | | | |
| | Weighted mode | 512 | 0.481 | (0.146, 1.581) | 0.228 | | | |
| | MR-PRESSO | 512 | 0.810 | (0.606, 1.082) | 0.154 | | | **0.003** |
| Body fat rate | MR Egger | 367 | 1.043 | (0.346, 3.147) | 0.940 | | 0.360 | |
| | Weighted median | 367 | 0.732 | (0.454, 1.180) | 0.200 | | | |
| | IVW | 367 | 0.638 | (0.455, 0.896) | **0.009** | **0.002** | | |
| | Simple mode | 367 | 3.778 | (0.657, 21.703) | 0.137 | | | |
| | Weighted mode | 367 | 3.075 | (0.792, 11.933) | 0.105 | | | |
| | MR-PRESSO | 367 | 0.638 | (0.455, 0.896) | **0.009** | | | **0.002** |

17    *Note.* SNP, single nucleotide polymorphism; *OR*, odds Ratio; *CI*, confidence interval; *P*-het, *P*
18    value for heterogeneity using Cochran's Q test; *P*-intercept, *P* value for MR-Egger intercept; *P*-global,
19    *P* value for MR-PRESSO global test. PRESSO, pleiotropy residual sum and outlier; IVW, inverse
20    variance weighted.

21     **Supplementary Table S6** The respective causal relations between body fat mass, body

22     fat-free mass, body fat rate, and obsessive-compulsive disorder based on the random

23     effect model

| Exposure variable | *No* of SNPs | *OR* | 95% *CI* | *P* |
| --- | --- | --- | --- | --- |
| Body fat mass | 396 | 0.680 | (0.528, 0.875) | **0.003** |
| Fat-free mass | 512 | 0.810 | (0.606, 1.082) | 0.154 |
| Body fat rate | 367 | 0.638 | (0.455, 0.896) | **0.009** |

24     ***Note.*** SNP, Single nucleotide polymorphism; *OR*, Odds Ratio; *CI*, Confidence interval; *P*: *P* value.

25    **Supplementary Table S7** The respective causal relations between body fat mass, body
26    fat-free mass, body fat rate, and obsessive-compulsive disorder after excluding outliers

| Exposure variable | Method | *No.* of SNPs | *OR* | 95% *CI* | *P* | *P*-het | *P*-intercept |
|---|---|---|---|---|---|---|---|
| Body fat mass | MR Egger | 365 | 0.903 | (0.458, 1.782) | 0.769 | | 0.552 |
| | Weighted median | 365 | 0.705 | (0.488, 1.019) | 0.063 | | |
| | IVW | 365 | 0.744 | (0.587, 0.942) | 0.014 | 0.991 | |
| | Simple mode | 365 | 0.700 | (0.205, 2.396) | 0.571 | | |
| | Weighted mode | 365 | 0.515 | (0.184, 1.438) | 0.206 | | |
| Fat-free mass | MR Egger | 479 | 0.680 | (0.345, 1.341) | 0.266 | | 0.193 |
| | Weighted median | 479 | 0.805 | (0.518, 1.251) | 0.334 | | |
| | IVW | 479 | 1.026 | (0.775, 1.358) | 0.860 | 0.988 | |
| | Simple mode | 479 | 0.359 | (0.096, 1.350) | 0.130 | | |
| | Weighted mode | 479 | 0.480 | (0.181, 1.271) | 0.140 | | |
| Body fat rate | MR Egger | 340 | 1.292 | (0.452, 3.690) | 0.632 | | 0.992 |
| | Weighted median | 340 | 0.832 | (0.502, 1.377) | 0.474 | | |
| | IVW | 340 | 0.768 | (0.556, 1.059) | 0.108 | 0.307 | |
| | Simple mode | 340 | 4.029 | (0.709, 22.882) | 0.117 | | |
| | Weighted mode | 340 | 2.672 | (0.661, 10.806) | 0.169 | | |

27    ***Note.*** SNP, Single nucleotide polymorphism; *OR*, Odds Ratio; *CI*, Confidence interval; *P*-het, *P*
28    value for heterogeneity using Cochran's Q test; *P*-intercept, *P* value for MR-Egger intercept; IVW,
29    Inverse variance weighted.

Supplementary Table S8 The respective causal relations between body fat mass, body fat-free mass, body fat rate, and obsessive-compulsive disorder

| Exposure variable | Outcome Variable | Method | *No.* of SNPs | *OR* | 95% *CI* | *P* | *P*-het | *P*-intercept | *P*-global |
|---|---|---|---|---|---|---|---|---|---|
| Body fat mass[*] | OCD | MR Egger | 261 | 0.644 | (0.281, 1.476) | 0.299 | | 0.778 | |
| | | Weighted median | 261 | 0.582 | (0.405, 0.838) | **0.004** | | | |
| | | IVW | 261 | 0.721 | (0.548, 0.949) | **0.019** | < 0.001 | | |
| | | Simple mode | 261 | 0.386 | (0.106, 1.404) | 0.150 | | | |
| | | Weighted mode | 261 | 0.386 | (0.120, 1.243) | 0.112 | | | |
| | | MR-PRESSO | 261 | 0.721 | (0.548, 0.949) | **0.019** | | | < 1e-04 |
| | | Random effects model | 261 | 0.721 | (0.548, 0.949) | **0.019** | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 238 | 0.988 | (0.456, 2.142) | 0.976 | | 0.570 | |
| | | Weighted median | 238 | 0.650 | (0.443, 0.953) | **0.027** | | | |
| | | IVW | 238 | 0.799 | (0.621, 1.028) | 0.080 | 0.974 | | |
| | | Simple mode | 238 | 0.370 | (0.108, 1.270) | 0.115 | | | |
| | | Weighted mode | 238 | 0.370 | (0.126, 1.087) | 0.072 | | | |
| Body fat mass | OCD[*] | MR Egger | 356 | 0.913 | (0.450, 1.852) | 0.801 | | 0.328 | |
| | | Weighted median | 356 | 0.685 | (0.472, 0.995) | **0.047** | | | |
| | | IVW | 356 | 0.656 | (0.510, 0.845) | **0.001** | 0.001 | | |
| | | Simple mode | 356 | 0.552 | (0.169, 1.809) | 0.327 | | | |
| | | Weighted mode | 356 | 0.952 | (0.444, 2.039) | 0.898 | | | |
| | | MR-PRESSO | 356 | 0.656 | (0.510, 0.845) | **0.001** | | | 0.001 |
| | | Random effects model | 356 | 0.656 | (0.510, 0.845) | **0.001** | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 331 | 0.985 | (0.517, 1.879) | 0.964 | | 0.199 | |
| | | Weighted median | 331 | 0.685 | (0.474, 0.991) | **0.045** | | | |
| | | IVW | 331 | 0.664 | (0.524, 0.840) | **0.001** | 0.995 | | |
| | | Simple mode | 331 | 0.552 | (0.165, 1.841) | 0.334 | | | |
| | | Weighted mode | 331 | 0.887 | (0.388, 2.026) | 0.776 | | | |
| Body fat mass[*] | OCD[*] | MR Egger | 356 | 0.913 | (0.450, 1.852) | 0.801 | | 0.328 | |

| Exposure | Outcome | Method | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Weighted median | 356 | 0.685 | (0.470, 0.999) | **0.049** | | | |
| | | IVW | 356 | 0.656 | (0.510, 0.845) | **0.001** | **0.001** | | |
| | | Simple mode | 356 | 0.552 | (0.170, 1.792) | 0.323 | | | |
| | | Weighted mode | 356 | 0.952 | (0.419, 2.159) | 0.905 | | | |
| | | MR-PRESSO | 356 | 0.656 | (0.510, 0.845) | **0.001** | 356 | | **0.001** |
| | | Random effects model | 356 | 0.656 | (0.510, 0.845) | **0.001** | 356 | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 331 | 0.985 | (0.517, 1.879) | 0.964 | | 0.199 | |
| | | Weighted median | 331 | 0.685 | (0.475, 0.989) | 0.043 | | | |
| | | IVW | 331 | 0.664 | (0.524, 0.840) | **0.001** | 0.995 | | |
| | | Simple mode | 331 | 0.552 | (0.162, 1.881) | 0.343 | | | |
| | | Weighted mode | 331 | 0.887 | (0.394, 1.995) | 0.772 | | | |
| **Fat-free mass**[*] | **OCD** | MR Egger | 383 | 0.494 | (0.237, 1.030) | 0.061 | | **0.001** | |
| | | Weighted median | 383 | 0.723 | (0.468, 1.115) | 0.142 | | | |
| | | IVW | 383 | 0.692 | (0.513, 0.935) | **0.016** | 0.324 | | |
| | | Simple mode | 383 | 0.341 | (0.076, 1.530) | 0.161 | | | |
| | | Weighted mode | 383 | 1.222 | (0.357, 4.175) | 0.750 | | | |
| | | MR-PRESSO | 383 | 0.692 | (0.513, 0.935) | **0.016** | | | **0.001** |
| | | Random effects model | 383 | 0.692 | (0.513, 0.935) | **0.016** | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 356 | 0.722 | (0.349, 1.493) | 0.380 | | 0.592 | |
| | | Weighted median | 356 | 0.790 | (0.514, 1.215) | 0.283 | | | |
| | | IVW | 356 | 0.867 | (0.651, 1.154) | 0.328 | 0.966 | | |
| | | Simple mode | 356 | 0.307 | (0.075, 1.251) | 0.100 | | | |
| | | Weighted mode | 356 | 1.516 | (0.565, 4.073) | 0.409 | | | |
| **Fat-free mass** | **OCD**[*] | MR Egger | 480 | 0.860 | (0.426, 1.738) | 0.675 | | 0.569 | |
| | | Weighted median | 480 | 0.802 | (0.513, 1.253) | 0.332 | | | |
| | | IVW | 480 | 0.714 | (0.532, 0.959) | **0.025** | **0.002** | | |
| | | Simple mode | 480 | 0.639 | (0.171, 2.388) | 0.506 | | | |
| | | Weighted mode | 480 | 0.910 | (0.375, 2.208) | 0.835 | | | |
| | | MR-PRESSO | 480 | 0.714 | (0.532, 0.959) | **0.025** | | | **0.003** |
| | | Random effects model | 480 | 0.714 | (0.532, 0.959) | **0.025** | | | |
| | | After exclusion of outliers | | | | | | | |

| Exposure | Outcome | Method | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MR Egger | 448 | 1.351 | (0.695, 2.628) | 0.376 | | **0.036** | |
| | | Weighted median | 448 | 0.808 | (0.517, 1,264) | 0.350 | | | |
| | | IVW | 448 | 0.708 | (0.535, 0.936) | **0.015** | 0.996 | | |
| | | Simple mode | 448 | 0.650 | (0.178, 2.376) | 0.515 | | | |
| | | Weighted mode | 448 | 0.902 | (0.366, 2.225) | 0.824 | | | |
| Fat-free mass* | OCD* | MR Egger | 353 | 1.302 | (0.591, 2.868) | 0.513 | | 0.164 | |
| | | Weighted median | 353 | 0.868 | (0.556, 1.356) | 0.534 | | | |
| | | IVW | 353 | 0.777 | (0.569, 1.061) | 0.113 | **<0.001** | | |
| | | Simple mode | 353 | 0.707 | (0.173, 2.889) | 0.630 | | | |
| | | Weighted mode | 353 | 0.960 | (0.392, 2.350) | 0.929 | | | |
| | | MR-PRESSO | 353 | 0.777 | (0.569, 1.061) | 0.113 | | | **<1e-04** |
| | | Random effects model | 353 | 0.777 | (0.569, 1.061) | 0.113 | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 325 | 2.700 | (1.317, 5.534) | **0.007** | | **<0.001** | |
| | | Weighted median | 325 | 0.848 | (0.535, 1.345) | 0.484 | | | |
| | | IVW | 325 | 0.706 | (0.531, 0.939) | **0.017** | 0.948 | | |
| | | Simple mode | 325 | 0.671 | (0.185, 2.426) | 0.543 | | | |
| | | Weighted mode | 325 | 0.933 | (0.399, 2.183) | 0.873 | | | |
| Body fat rate* | OCD | MR Egger | 242 | 1.659 | (0.438, 6.288) | 0.457 | | 0.181 | |
| | | Weighted median | 242 | 0.629 | (0.374, 1.059) | 0.081 | | | |
| | | IVW | 242 | 0.691 | (0.478, 0.999) | **0.049** | 0.004 | | |
| | | Simple mode | 242 | 0.331 | (0.059, 1.853) | 0.210 | | | |
| | | Weighted mode | 242 | 0.346 | (0.070, 1.707) | 0.194 | | | |
| | | MR-PRESSO | 242 | 0.691 | (0.478, 0.999) | **0.049** | | | **0.004** |
| | | Random effects model | 242 | 0.691 | (0.478, 0.999) | **0.049** | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 224 | 1.815 | (0.519, 6.340) | 0.352 | | 0.130 | |
| | | Weighted median | 224 | 0.659 | (0.396, 1.096) | 0.108 | | | |
| | | IVW | 224 | 0.714 | (0.505, 1.010) | 0.057 | 0.954 | | |
| | | Simple mode | 224 | 0.311 | (0.063, 1.529) | 0.152 | | | |
| | | Weighted mode | 224 | 0.311 | (0.080, 1.213) | 0.094 | | | |
| Body fat rate | OCD* | MR Egger | 329 | 1.742 | (0.628, 4.834) | 0.287 | | **0.010** | |
| | | Weighted median | 329 | 0.497 | (0.312, 0.793) | **0.003** | | | |

| Exposure | Outcome | Method | SNP | OR | CI | P-value | P-het | P-intercept | P-global |
|---|---|---|---|---|---|---|---|---|---|
| | | IVW | 329 | 0.487 | (0.353, 0.672) | **<0.001** | 0.114 | | |
| | | Simple mode | 329 | 0.253 | (0.054, 1,179) | 0.081 | | | |
| | | Weighted mode | 329 | 0.389 | (0.098, 1.543) | 0.180 | | | |
| | | MR-PRESSO | 329 | 0.487 | (0.353, 0.672) | **<0.001** | | | 0.113 |
| | | Random effects model | 329 | 0.487 | (0.353, 0.672) | **<0.001** | | | |
| | | After exclusion of outliers | | | | | | | |
| | | MR Egger | 309 | 2.042 | (0.745, 5.593) | 0.166 | | **0.001** | |
| | | Weighted median | 309 | 0.492 | (0.305, 0.792) | **0.004** | | | |
| | | IVW | 309 | 0.426 | (0.310, 0.585) | **<0.001** | 0.994 | | |
| | | Simple mode | 309 | 0.259 | (0.053, 1.263) | 0.096 | | | |
| | | Weighted mode | 309 | 0.373 | (0.109, 1.275) | 0.117 | | | |
| **Body fat rate*** | **OCD*** | MR Egger | 226 | 1.457 | (0.423, 5.018) | 0.551 | | 0.070 | |
| | | Weighted median | 226 | 0.613 | (0.374, 1.006) | 0.053 | | | |
| | | IVW | 226 | 0.483 | (0.340, 0.686) | **<0.001** | 0.093 | | |
| | | Simple mode | 226 | 0.255 | (0.047, 1.368) | 0.112 | | | |
| | | Weighted mode | 226 | 0.658 | (0.139, 3.103) | 0.597 | | | |
| | | MR-PRESSO | 226 | 0.483 | (0.340, 0.686) | **<0.001** | | | 0.092 |
| | | Random effects model | 226 | 0.483 | (0.340, 0.686) | **<0.001** | | | |

*Note.* * A distinct source of information was utilized compared to the one used in the primary analysis. SNP, Single nucleotide polymorphism; *OR*, Odds Ratio; *CI*, Confidence interval; *P*-het, *P* value for heterogeneity using Cochran's Q test; *P*-intercept, *P* value for MR-Egger intercept; *P*-global, *P* value for MR-PRESSO global test. PRESSO, Pleiotropy residual sum and outlier; IVW, Inverse variance weighted.

**Supplementary Table S9** The respective causal relations between body fat mass, body fat-free mass, body fat rate, and obsessive-compulsive disorder after excluding SNPs associated with education ($P < 5 \times 10^{-8}$)

| Exposure variable | Method | Excluding SNPs [a] | *No*. of SNPs | *OR (95% CI)* | *P* |
|---|---|---|---|---|---|
| Body fat mass | MR Egger | | 395 | 0.596 (0.292, 1.217) | 0.156 |
| | Weighted median | | 395 | 0.633 (0.438, 0.916) | **0.015** |
| | Inverse variance weighted | rs11245344 | 395 | 0.682 (0.530, 0.878) | **0.003** |
| | Simple mode | | 395 | 0.883 (0.235, 3.316) | 0.854 |
| | Weighted mode | | 395 | 0.609 (0.199, 1.864) | 0.385 |
| Fat-free mass | MR Egger | | 512 | 0.426 (0.216, 0.840) | **0.014** |
| | Weighted median | | 512 | 0.728 (0.469, 1.130) | 0.157 |
| | Inverse variance weighted | rs4887925 | 512 | 0.810 (0.606, 1.082) | 0.154 |
| | Simple mode | | 512 | 0.375 (0.081, 1.743) | 0.211 |
| | Weighted mode | | 512 | 0.481 (0.141, 1.642) | 0.243 |
| Body fat rate | MR Egger | | 366 | 1.025 (0339, 3.098) | 0.966 |
| | Weighted median | | 366 | 0.744 (0.450, 1.229) | 0.248 |
| | Inverse variance weighted | rs11245344 | 366 | 0.641 (0.457, 0.901) | **0.010** |
| | Simple mode | | 366 | 3.767 (0.711, 19.966) | 0.120 |
| | Weighted mode | | 366 | 3.066 (0.780, 12.057) | 0.110 |

***Note.*** [a], The SNPs were strongly associated with the education variable. SNP, Single nucleotide polymorphism; *OR*, Odds Ratio; *CI*, Confidence interval.

40 **Supplementary Table S10** The respective causal relations between obsessive-compulsive disorder and body fat mass

| Method | *No*. of SNPs | *OR* | 95% *CI* | *P* | *P*-het | *P*-intercept |
|---|---|---|---|---|---|---|
| MR Egger | 15 | 1.004 | (0.982, 1.028) | 0.720 | | 0.288 |
| Weighted median | 15 | 0.991 | (0.983, 0.999) | 0.026 | | |
| IVW | 15 | 0.992 | (0.986, 0.998) | 0.010 | 0.354 | |
| Simple mode | 15 | 0.987 | (0.974, 1.002) | 0.105 | | |
| Weighted mode | 15 | 0.989 | (0.974, 1.003) | 0.145 | | |

41 *Note.* SNP, Single nucleotide polymorphism; *OR*, Odds Ratio; *CI*, Confidence interval. *P*-het, *P* value for heterogeneity using Cochran's Q test; *P*-
42 intercept, *P* value for MR-Egger intercept.

43
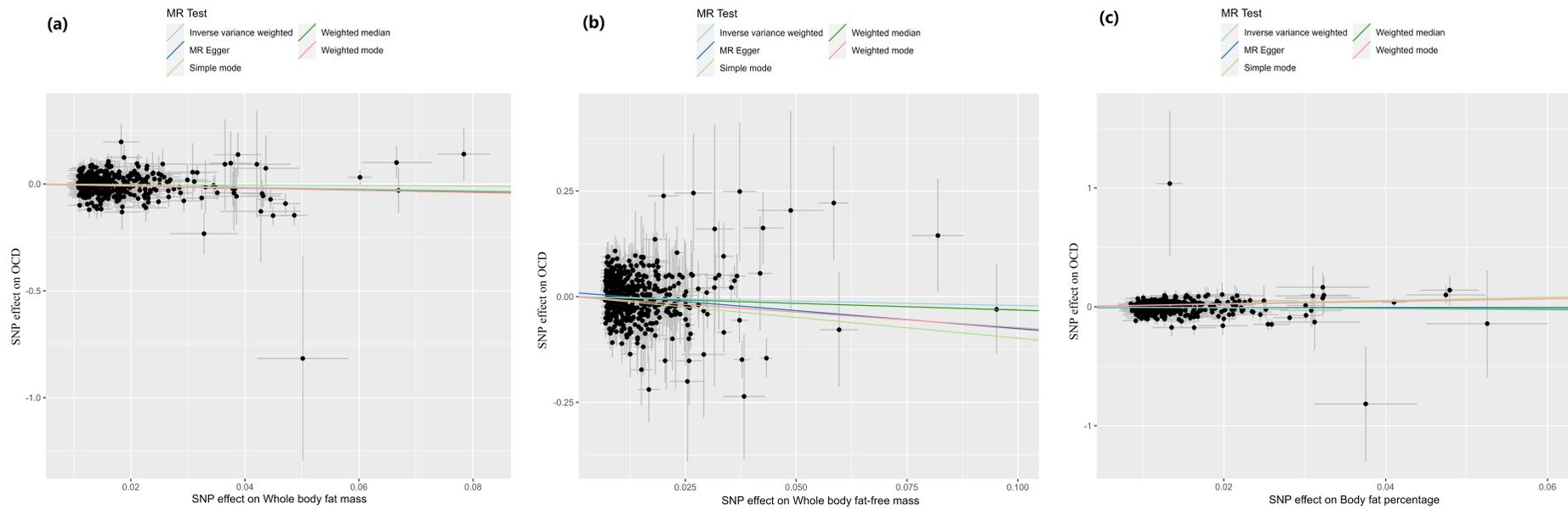
**Supplementary Figure S1** Scatter plot of the causal effects of (a) body fat mass, (b) fat-free mass, and (c) body fat percentage on obsessive-

compulsive disorder. IV, instrumental variable; SE, standard error.

MR leave-one-out sensitivity analysis for
'Whole body fat mass || id:ukb-b-19393' on 'ocd2'
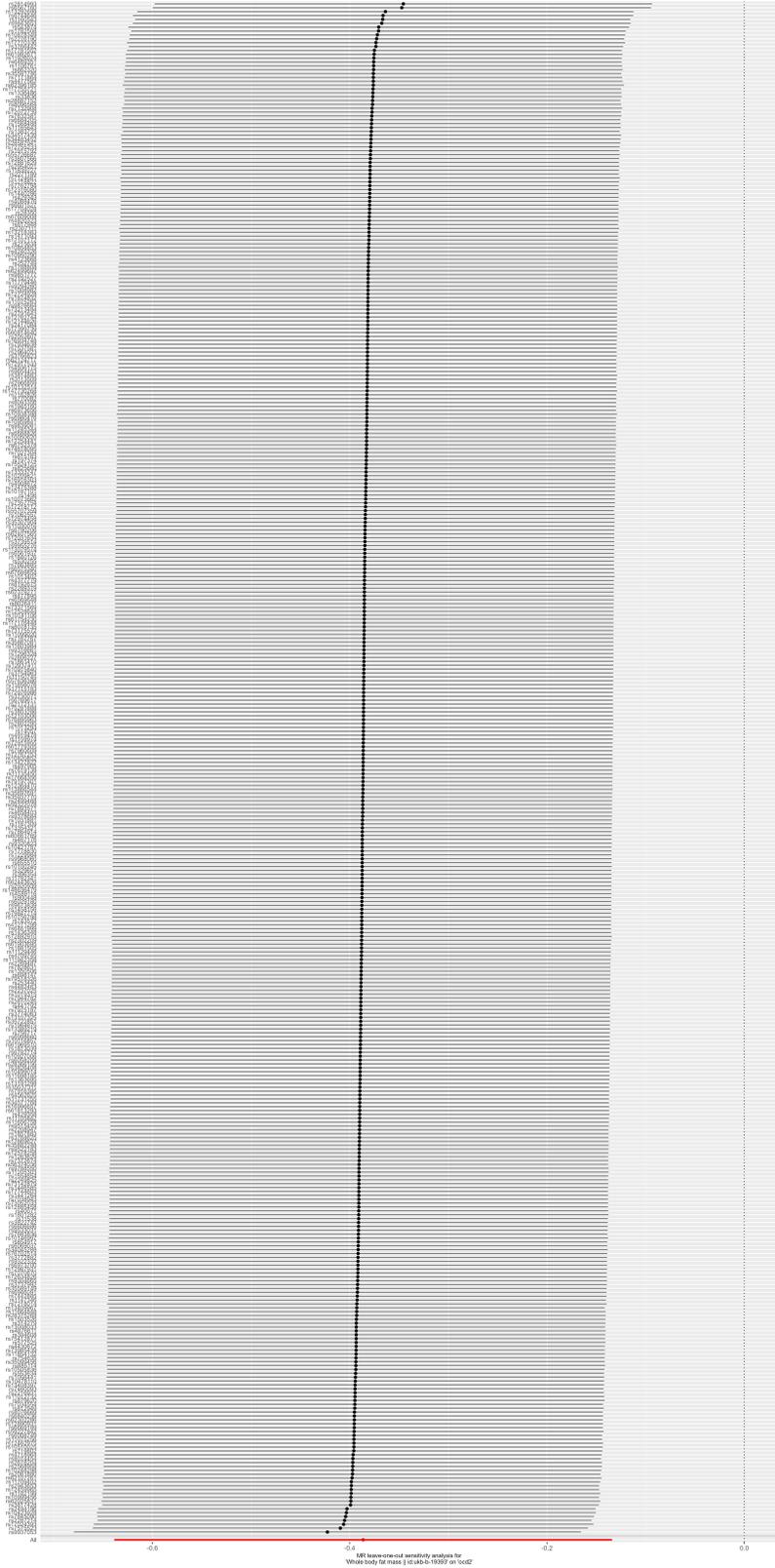
**Supplementary Figure S2** The leave-one-out test of body fat mass and obsessive-compulsive disorder. SNP, single nucleotide polymorphism; OCD, obsessive–compulsive disorder.

50
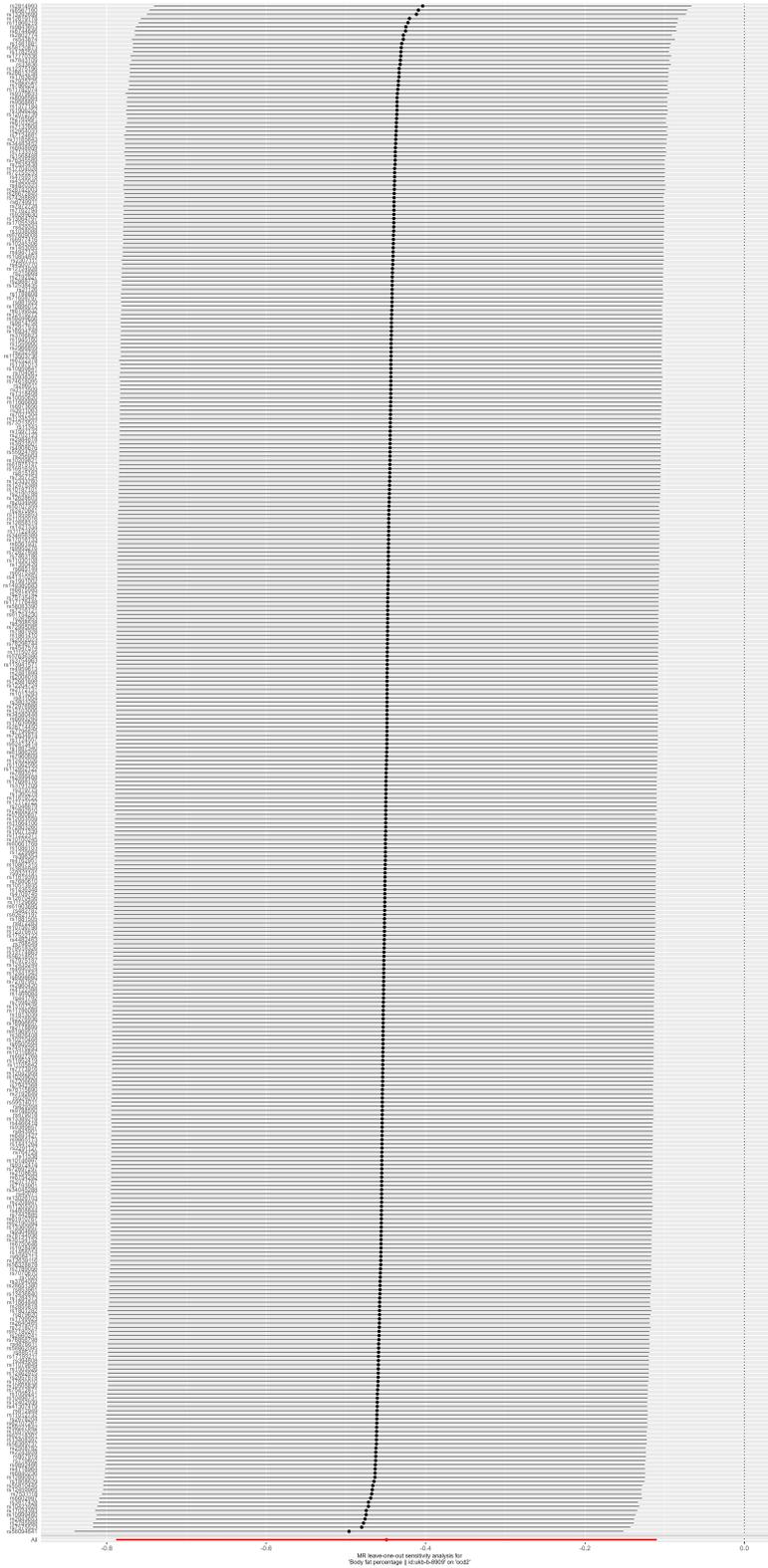
**Supplementary Figure S3** Leave-one-out test for body fat-free mass and obsessive-compulsive disorder. SNP, single nucleotide polymorphism; OCD, obsessive–compulsive disorder.

MR leave-one-out sensitivity analysis for
"Whole body fat-free mass || id:ukb-b-13354" on 'ocd2'
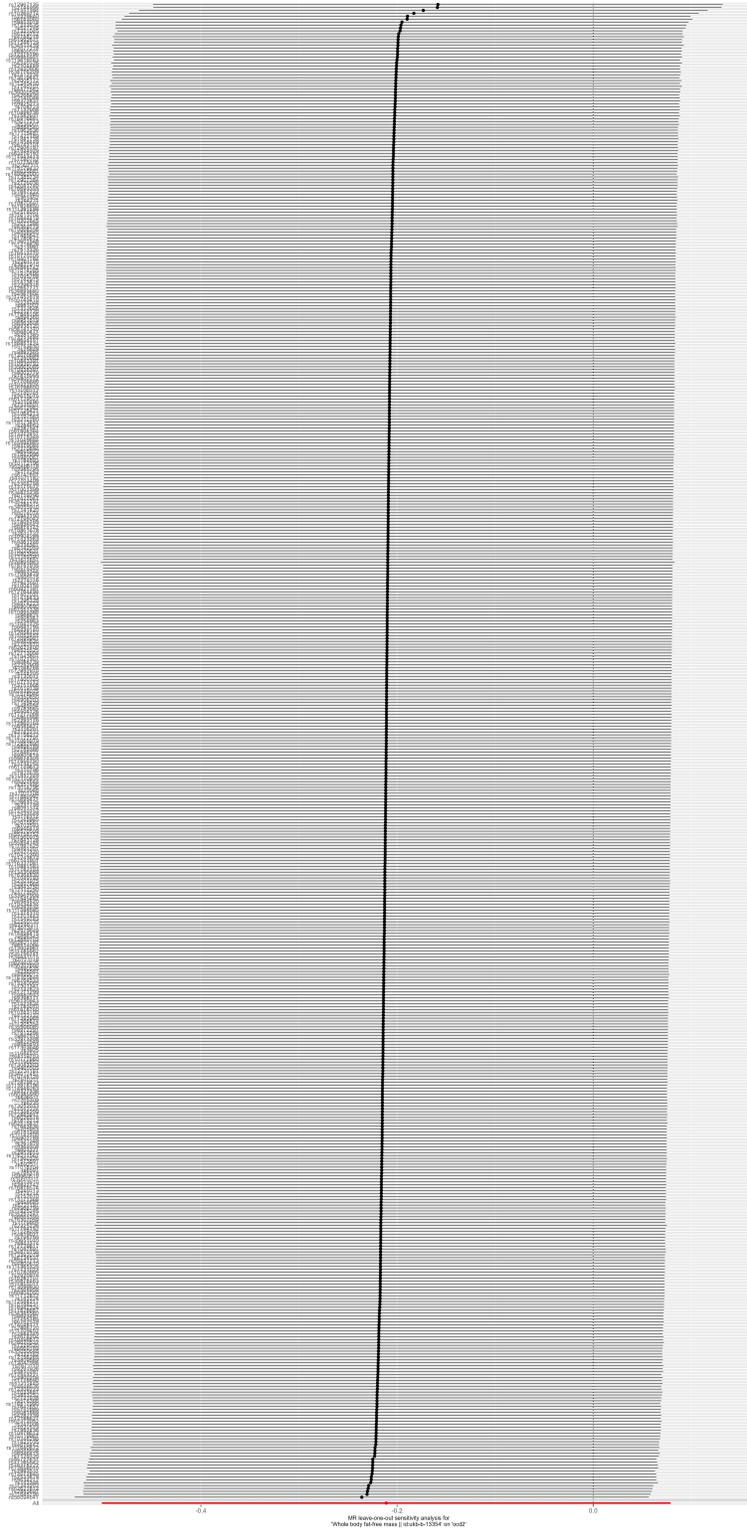
54
55 **Supplementary Figure S4** Leave-one-out test of body fat percentage and obsessive-

56 compulsive disorder. SNP, single nucleotide polymorphism; OCD, obsessive–compulsive disorder.

80

*Supplementary materials*

| Filename | Description |
|---|---|
| **Table S1.docx** | Table S1: STROBE-MR checklist of recommended items to address in reports of Mendelian randomization studies. <br><br> This table presents the STROBE-MR checklist, which outlines the recommended items that should be included in reports of Mendelian randomization studies, including the detailed MR checklist items, pages, and relevant text from manuscript. |
| **Table S2.docx** | Table S2: Effect estimate of the association between genetically predicted body fat and risk of obsessive-compulsive disorder. <br><br> This table includes detailed information about the instrumental variables used in the analysis. It provides information on SNP loci, their associations with fat mass, their associations with obsessive-compulsive disorder, and the F-statistics, which are used to assess the strength of the instruments. |
| **Table S3.docx** | Table S3: Effect estimate of the association between genetically predicted body fat-free mass and risk of obsessive-compulsive disorder. <br><br> This table includes detailed information about the instrumental variables used in the analysis. It provides information on SNP loci, their associations with fat-free mass, their associations with obsessive-compulsive disorder, and the F-statistics, which are used to assess the strength of the instruments. |
| **Table S4.docx** | Table S4: Effect estimate of the association between genetically predicted body fat percentage and risk of obsessive-compulsive disorder. <br><br> This table includes detailed information about the instrumental variables used in the analysis. It provides information on SNP loci, their associations with body fat percentage, their associations with obsessive-compulsive disorder, and the F-statistics, which are used to assess the strength of the instruments. |
| **Table S5.docx** | Table S5: The respective causal relations between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder. <br><br> This table presents the results of sensitivity analyses for the causal relationships between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder. It includes the results of two-sample Mendelian randomization analyses using MR Egger, Weighted median, Inverse Variance Weighted (IVW), Simple mode, and Weighted mode methods. Additionally, the table provides the results of MR pleiotropy residual sum and outlier (MR-PRESSO) tests, heterogeneity tests, and pleiotropic tests to evaluate the robustness and validity of the findings. |

| | |
|---|---|
| **Table S6.docx** | Table S6: The respective causal relations between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder based on the random effect model.<br>This table presents the results of sensitivity analyses using a random effect model to investigate the causal relationships between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder. |
| **Table S7.docx** | Table S7: The respective causal relations between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder after excluding outliers.<br>This table presents the two-sample Mendelian randomization results after excluding outliers identified by the MR radial method. |
| **Table S8.docx** | Table S8: The respective causal relations between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder.<br>This table presents the results of the analyses where the exposure and outcome datasets were replaced to verify the robustness of the primary analyses. |
| **Table S9.docx** | Table S9: The respective causal relations between body fat mass, body fat-free mass, body fat percentage, and obsessive-compulsive disorder after excluding SNPs associated with education ($P < 5\times10^{-8}$).<br>This table presents the results of the causal analyses after excluding SNPs associated with education to test the robustness of the primary findings. |
| **Table S10.docx** | Tables S10: The respective causal relations between obsessive-compulsive disorder and body fat mass.<br>This table presents the two-sample Mendelian randomization results with obsessive-compulsive disorder as the exposure and body fat mass as the outcome. |
| **Supplementary Figures.docx** | Figure S1: Scatter plot of the causal effects of (a) body fat mass, (b) fat-free mass, and (c) body fat percentage on obsessive-compulsive disorder.<br>This figure presents scatter plots illustrating the causal effects using five different methods (represented by different colours). Each point in the plot represents an instrumental variable (IV), and the lines extending from each point reflect the 95% confidence intervals. The x-axis shows the effect of each SNP on the exposure, while the y-axis indicates the effect of each SNP on the outcome.<br>Figure S2 The leave-one-out test of body fat mass and obsessive-compulsive disorder.<br>This figure demonstrates the robustness of the causal association |

between body fat mass and obsessive-compulsive disorder using leave-one-out sensitivity analysis. Each point represents the causal effect estimate with one SNP removed, allowing for the evaluation of whether the overall association is driven by any single SNP.

Figure S3 Leave-one-out test for body fat-free mass and obsessive-compulsive disorder.

This figure demonstrates the robustness of the causal association between body fat-free mass and obsessive-compulsive disorder using leave-one-out sensitivity analysis. Each point represents the causal effect estimate with one SNP removed, allowing for the evaluation of whether the overall association is driven by any single SNP.

Figure S4 Leave-one-out test of body fat percentage and obsessive-compulsive disorder.

This figure demonstrates the robustness of the causal association between body fat percentage and obsessive-compulsive disorder using leave-one-out sensitivity analysis. Each point represents the causal effect estimate with one SNP removed, allowing for the evaluation of whether the overall association is driven by any single SNP.

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