**Supplementary Table 1.** Evidence of association of the 122 SNPs (and SNPs highly correlated with them, linkage disequilibrium r2>0.8) with body mass index (BMI) (information retrieved from Phenoscanner, available at: <http://www.phenoscanner.medschl.cam.ac.uk/phenoscanner>) ([Staley et al., 2016](#_ENREF_10)).

| **SNP** | **Gene** | **Studies identifying an association with BMI** |
| --- | --- | --- |
| rs10144321 | WDR25 | / |
| rs1038903 |  | / |
| rs10423674 | CRTC1 | / |
| rs10453225 |  | / |
| rs10739221 |  | / |
| rs10789181 | DNAJC6 | / |
| rs1079866 |  | / |
| rs10816359 |  | / |
| rs10895140 | TRPC6 | / |
| rs10938397 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Graff et al., 2013](#_ENREF_3); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Willer et al., 2009](#_ENREF_15); [Winkler et al., 2015](#_ENREF_16)) |
| rs10980854 |  | / |
| rs10980921 |  | / |
| rs11022756 | ARNTL | / |
| rs11165924 | DPYD | / |
| rs11215400 | CADM1 | / |
| rs1129700 | ASPHD1,KCTD13 | / |
| rs11578152 |  | / |
| rs11715566 |  | / |
| rs11767400 | CADPS2 | / |
| rs11792861 | MIR32,TMEM245 | / |
| rs12148769 |  | / |
| rs12446632 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Winkler et al., 2015](#_ENREF_16)) |
| rs12472911 | LRP1B | / |
| rs1254337 | C14orf39 | / |
| rs12571664 |  | / |
| rs12607903 | DLGAP1 | / |
| rs12915845 |  | / |
| rs13053505 |  | / |
| rs13067731 |  | / |
| rs13135934 | SMARCAD1 | / |
| rs13179411 | JADE2 | / |
| rs13196561 |  | / |
| rs1324913 | KLF12 | / |
| rs1364063 |  | / |
| rs1400974 |  | / |
| rs1461503 |  | / |
| rs1469039 | KCNK9 | / |
| rs1532331 |  | / |
| rs16860328 | TRA2B | / |
| rs16896742 |  | / |
| rs16918254 |  | / |
| rs16918636 |  | / |
| rs17086188 |  | / |
| rs17171818 | KDM3B | / |
| rs17233066 |  | / |
| rs17236969 |  | / |
| rs17266097 | SATB2 | / |
| rs1874984 | ADARB2 | / |
| rs1915146 | CTBP2 | / |
| rs1958560 | FUT8 | / |
| rs2063730 | GAB2 | / |
| rs2137289 | SKOR2 | / |
| rs2153127 |  | / |
| rs2274465 | KDM4A | / |
| rs239198 | ASCC3 | / |
| rs244293 | STXBP4 | / |
| rs246185 | MIR193BHG | / |
| rs2479724 | BYSL | / |
| rs251130 | STARD4-AS1 | / |
| rs2600959 |  | / |
| rs268067 |  | / |
| rs2687729 | EEFSEC | / |
| rs2688325 | CSMD1 | / |
| rs2836950 | BRWD1 | / |
| rs2947411 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Winkler et al., 2015](#_ENREF_16)) |
| rs3101336 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Thorleifsson et al., 2009](#_ENREF_11); [Wheeler et al., 2013](#_ENREF_14); [Winkler et al., 2015](#_ENREF_16)) |
| rs3733631 | TACR3 | / |
| rs3743266 | RORA-AS1,RORA | / |
| rs4369815 |  | / |
| rs466639 | RXRG | / |
| rs4756059 |  | / |
| rs4840086 |  | / |
| rs4875053 |  | / |
| rs4895808 | CENPW | / |
| rs4929947 | TRIM66 | ([Gaulton et al., 2015](#_ENREF_2); [Winkler et al., 2015](#_ENREF_16)) |
| rs543874 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Graff et al., 2013](#_ENREF_3); [Guo et al., 2013](#_ENREF_4); [Monda et al., 2013](#_ENREF_6); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Winkler et al., 2015](#_ENREF_16)) |
| rs6009583 |  | / |
| rs6427782 |  | / |
| rs652260 | EVI5L | / |
| rs6555855 |  | / |
| rs6563739 | COG6,MIR4305 | / |
| rs6747380 | CCDC85A | / |
| rs6758290 |  | / |
| rs6762477 | RBM6 | / |
| rs6770162 |  | / |
| rs6933660 |  | / |
| rs6938574 | PTPRK | / |
| rs6964833 | GTF2I | / |
| rs7037266 | KDM4C | / |
| rs7103411 | BDNF-AS, BDNF | ([Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Winkler et al., 2015](#_ENREF_16)) |
| rs7104764 | SIRT3 | / |
| rs7138803 |  | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Guo et al., 2013](#_ENREF_4); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Thorleifsson et al., 2009](#_ENREF_11); [Winkler et al., 2015](#_ENREF_16)) |
| rs7141210 |  | / |
| rs7215990 |  | / |
| rs7463166 | CSMD1 | / |
| rs7514705 | FPGT-TNNI3K, TNNI3K | ([Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Winkler et al., 2015](#_ENREF_16)) |
| rs7642134 |  | / |
| rs7647973 | DAG1 | / |
| rs7701886 |  | ([Monda et al., 2013](#_ENREF_6)) |
| rs7759938 |  | / |
| rs7821178 |  | / |
| rs7828501 | CSMD1 | / |
| rs7853970 |  | / |
| rs7865468 | PTPRD | / |
| rs7955374 |  | / |
| rs8032675 | MAP2K5 | ([Gaulton et al., 2015](#_ENREF_2); [Randall et al., 2013](#_ENREF_8)) |
| rs8050136 | FTO | ([Berndt et al., 2013](#_ENREF_1); [Gaulton et al., 2015](#_ENREF_2); [Heard-Costa et al., 2009](#_ENREF_5); [Paternoster et al., 2011](#_ENREF_7); [Randall et al., 2013](#_ENREF_8); [Speliotes et al., 2010](#_ENREF_9); [Thorleifsson et al., 2009](#_ENREF_11); [Timpson et al., 2009](#_ENREF_12); [Wan et al., 2011](#_ENREF_13); [Winkler et al., 2015](#_ENREF_16)) |
| rs852069 |  | / |
| rs889122 | OLFM2 | / |
| rs900400 |  | / |
| rs913588 | KDM4C | / |
| rs929843 | PDXDC2P | / |
| rs9321659 |  | / |
| rs939317 | EIF4G1 | / |
| rs9447700 |  | / |
| rs9475752 | DST | / |
| rs951366 | NUCKS1 | / |
| rs9560113 |  | / |
| rs9635759 |  | / |
| rs9647570 | TENM2 | / |
| rs9849248 |  | / |
| rs988913 | FAM83B | / |

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