

1 Supplemental Table 1. Loci associated with BMI with Conditional FDR on FN BMD smaller than 0.05.

SNP	ROLE	GENE	CHR	A1	A2	P. BMI	P. FN_BMD	cFDR. BMI FN_BMD
rs4348675	intronic	NEGR1	chr1	T	C	5.88E-08	6.30E-02	4.85E-04
rs3759579	upstream	MARK3	chr14	A	G	2.18E-05	3.31E-05	7.43E-04
rs6940832	intergenic	TFAP2B PKHD1	chr6	G	A	1.02E-07	1.22E-01	7.89E-04
rs4074720	intronic	TCF7L2	chr10	C	T	6.41E-08	2.02E-01	8.05E-04
rs2235569	intronic	C6orf106	chr6	C	T	9.64E-08	3.40E-01	1.00E-03
rs6499646	intronic	FTO	chr16	T	C	9.17E-08	8.48E-01	1.04E-03
rs546217	intronic	EFR3B	chr2	A	C	1.12E-07	9.79E-01	1.10E-03
rs16952522	intronic	FTO	chr16	C	G	8.47E-08	4.37E-01	1.12E-03
rs7719067	intergenic	MFAP3 GALNT10	chr5	A	G	7.09E-08	8.40E-01	1.19E-03
rs8063946	intronic	FTO	chr16	C	T	1.30E-07	5.35E-01	1.20E-03
rs7203219	intergenic	GPR139 GP2	chr16	T	C	8.16E-08	5.56E-01	1.37E-03
rs3828137	intronic	SEC16B	chr1	G	A	6.01E-08	5.77E-01	1.39E-03
rs11663558	intronic	NPC1	chr18	G	A	5.20E-08	2.82E-01	1.80E-03
rs1549979	intronic	CADM2	chr3	C	T	2.71E-07	5.63E-01	1.84E-03
rs9381908	intergenic	TFAP2B PKHD1	chr6	G	A	2.88E-07	7.28E-01	1.94E-03
rs4807189	intronic	CSNK1G2	chr19	A	C	4.39E-07	6.11E-01	2.02E-03
rs7239883	ncRNA_intronic	LINC00907	chr18	G	A	3.14E-07	9.80E-01	2.06E-03
rs6760328	intronic	ADCY3	chr2	T	C	5.80E-08	6.04E-01	2.11E-03
rs1362571	intronic	FTO	chr16	G	T	2.52E-07	4.84E-01	2.11E-03
rs1979755	intronic	KCNG3	chr2	G	C	4.33E-07	6.76E-01	2.20E-03
rs10499694	intronic	DDC	chr7	A	G	4.72E-07	6.66E-01	2.22E-03
rs4949662	intronic	ZZZ3	chr1	A	G	4.98E-07	7.47E-01	2.23E-03
rs9469914	intronic	UHRF1BP1	chr6	A	T	2.93E-07	3.37E-01	2.41E-03
rs4704200	intergenic	ANKRD31 HMGCR	chr5	G	T	5.92E-07	6.47E-01	2.56E-03
rs7633265	intronic	ACAP2	chr3	A	G	6.62E-07	6.95E-01	2.64E-03

rs2943636	intergenic	LOC646736 MIR5702	chr2	G	A	4.02E-07	3.28E-01	2.69E-03
rs12071803	intergenic	LOC101928241 PTBP2	chr1	G	A	7.42E-07	9.17E-01	3.03E-03
rs11688816	intronic	EHBP1	chr2	G	A	3.80E-07	2.69E-01	3.15E-03
rs9844271	intergenic	LOC344887 ETV5	chr3	G	T	1.38E-06	3.50E-01	3.93E-03
rs2197988	intronic	NRXN3	chr14	A	G	9.34E-07	1.43E-01	4.21E-03
rs7593130	intronic	ADCY3	chr2	T	C	1.27E-06	8.70E-01	4.28E-03
rs7503807	intronic	RPTOR	chr17	A	C	5.73E-07	2.45E-01	4.33E-03
rs12681744	intergenic	HNF4G LINC01111	chr8	A	G	1.01E-06	1.71E-01	4.34E-03
rs11915638	intronic	CADM2	chr3	A	G	7.18E-07	4.96E-02	4.71E-03
rs7929500	intronic	STK33	chr11	G	A	1.56E-06	6.86E-01	4.76E-03
rs1561277	intronic	ZRANB3	chr2	C	A	7.85E-07	1.98E-01	4.84E-03
rs2444217	intronic	ADCY9	chr16	G	A	1.92E-06	7.04E-01	4.91E-03
rs7433760	intronic	ETV5	chr3	A	G	1.02E-06	1.18E-01	5.08E-03
rs751008	intronic	DOCK1	chr10	G	A	1.64E-06	9.09E-01	5.13E-03
rs9381901	intergenic	TFAP2D TFAP2B	chr6	A	G	1.77E-06	4.49E-01	5.36E-03
rs570762	intergenic	LOC101928778 SEC16B	chr1	T	C	1.82E-06	2.65E-01	5.38E-03
rs10057590	intergenic	ZNF60 LOC101927421	chr5	A	C	1.72E-06	4.97E-01	5.45E-03
rs9659092	intronic	AGBL4	chr1	A	G	1.86E-06	9.76E-01	5.45E-03
rs1222069	intergenic	LOC102723661 LOC101928241	chr1	A	C	1.64E-06	2.60E-02	5.79E-03
rs12904982	intronic	MAP2K5	chr15	T	C	2.03E-06	4.46E-01	5.80E-03
rs574763	intergenic	PMAIP1 MC4R	chr18	T	C	2.31E-06	9.96E-01	6.15E-03
rs2272908	intronic	GNB1	chr1	C	T	2.42E-05	4.94E-03	6.29E-03
rs4771946	intronic	HS6ST3	chr13	T	C	2.57E-06	6.12E-01	6.52E-03
rs1409818	intergenic	NKX2-4 NKX2-2	chr20	C	T	2.30E-05	3.43E-03	6.53E-03
rs11079813	intronic	SKAP1	chr17	T	C	2.95E-06	6.54E-01	7.03E-03
rs1440983	intergenic	PRKD1 G2E3	chr14	G	A	3.56E-06	7.46E-01	7.26E-03
rs10032137	intergenic	GNPDA2 GABRG1	chr4	G	C	2.87E-06	4.89E-01	7.71E-03
rs9408902	intergenic	ASTN2 LOC101928797	chr9	A	G	3.06E-06	4.18E-01	7.78E-03

rs9983113	intergenic	LOC400867 LOC101928435	chr21	G	T	3.81E-06	4.98E-01	7.91E-03
rs998584	intergenic	VEGFA LINC01512	chr6	C	A	2.89E-06	3.23E-01	8.14E-03
rs7551794	intergenic	PTBP2 DPYD	chr1	A	T	3.81E-06	9.81E-01	8.16E-03
rs17326595	intergenic	KCTD15 LSM14A	chr19	C	T	3.44E-06	4.41E-01	8.37E-03
rs9966504	intergenic	PMAIP1 MC4R	chr18	C	T	2.99E-06	3.21E-01	8.41E-03
rs1546924	intronic	FAM212B	chr1	T	C	4.93E-06	7.16E-01	8.83E-03
rs11064524	intronic	WNK1	chr12	T	G	5.16E-06	7.56E-01	9.01E-03
rs12598706	intronic	PDILT	chr16	C	T	4.34E-06	8.16E-01	9.05E-03
rs9275595	intergenic	HLA-DQB1 HLA-DQA2	chr6	T	C	5.64E-06	5.03E-01	9.79E-03
rs1225051	intronic	CPNE4	chr3	G	A	5.23E-06	4.64E-01	9.80E-03
rs2150855	intronic	LINGO2	chr9	T	C	3.52E-06	1.58E-01	9.97E-03
rs4144743	intergenic	MYL4 ITGB3	chr17	T	C	4.84E-06	4.43E-01	1.00E-02
rs1861569	intergenic	MIR5095 CBLN1	chr16	T	C	5.67E-06	8.93E-01	1.03E-02
rs285556	intronic	PDZRN4	chr12	C	T	6.80E-06	7.15E-01	1.08E-02
rs9639027	upstream	ZNF12	chr7	T	C	4.50E-06	3.08E-01	1.13E-02
rs9296115	intronic	PACSIN1	chr6	A	C	6.80E-06	9.04E-01	1.13E-02
rs9960448	intergenic	PMAIP1 MC4R	chr18	G	T	7.04E-06	2.83E-01	1.22E-02
rs4937993	intronic	NCAM1	chr11	A	G	4.70E-06	1.89E-01	1.23E-02
rs7048106	ncRNA_intronic	MIR1268A	chr9	A	G	8.81E-06	7.59E-01	1.26E-02
rs1333010	intergenic	LOC102723968 LINC01052	chr13	G	A	7.64E-06	9.80E-01	1.27E-02
rs2033530	downstream	TDRG1	chr6	A	G	8.22E-06	3.91E-01	1.30E-02
rs3922649	intergenic	LOC101928778 SEC16B	chr1	A	G	6.72E-06	2.86E-01	1.31E-02
rs3105748	intronic	SLC22A3	chr6	C	T	8.44E-06	8.77E-01	1.33E-02
rs2074120	intronic	CALCR	chr7	A	C	8.81E-06	3.34E-01	1.34E-02
rs2685230	intergenic	FAM150B TMEM18	chr2	A	G	4.88E-06	8.48E-02	1.34E-02
rs4304326	intergenic	DUSP26 LINC01288	chr8	G	C	9.32E-06	3.70E-01	1.36E-02
rs12454712	intronic	BCL2	chr18	T	C	6.04E-06	1.47E-01	1.40E-02
rs7228347	intergenic	MC4R CDH20	chr18	T	G	9.41E-06	6.42E-01	1.40E-02

rs11625620	intronic	NRXN3	chr14	C	T	1.03E-05	4.92E-01	1.43E-02
rs836964	intronic	FAIM2	chr12	A	G	8.05E-06	2.32E-01	1.44E-02
rs6723710	ncRNA_intronic	LINC01122	chr2	C	A	1.00E-05	4.83E-01	1.46E-02
rs9357506	intronic	RCAN2	chr6	A	G	6.80E-06	1.37E-01	1.47E-02
rs17819063	intronic	FTO	chr16	G	A	1.07E-05	6.55E-01	1.48E-02
rs12928335	intergenic	AKTIP RPGRIP1L	chr16	C	T	1.14E-05	6.75E-01	1.55E-02
rs1530559	intronic	MAP3K19	chr2	A	G	6.79E-06	5.53E-02	1.64E-02
rs17218700	intronic	FTO	chr16	G	A	1.28E-05	5.13E-01	1.65E-02
rs8106922	intronic	TOMM40	chr19	A	G	1.27E-05	6.72E-01	1.71E-02
rs10971712	intronic	UBE2R2	chr9	C	T	1.51E-05	8.18E-01	1.83E-02
rs2161767	intergenic	MIR1302-4 CREB1	chr2	A	G	1.47E-05	4.57E-01	1.85E-02
rs13432055	intronic	CCDC85A	chr2	T	C	1.14E-05	3.07E-01	1.86E-02
rs849135	intronic	JAZF1	chr7	G	A	1.45E-05	6.08E-01	1.89E-02
rs559431	intronic	KDM1A	chr1	T	C	1.38E-05	4.00E-01	1.92E-02
rs740157	intergenic	LOC101927243 PTPN12	chr7	A	G	1.70E-05	6.44E-01	1.94E-02
rs5862	UTR3	LOC728392	chr17	A	G	1.73E-05	3.74E-01	1.97E-02
rs1275985	intergenic	CIB4 KCNK3	chr2	C	T	1.73E-05	9.09E-01	1.99E-02
rs2770102	ncRNA_intronic	CASC15	chr6	G	A	1.66E-05	4.75E-01	1.99E-02
rs2677031	intergenic	CALCR MIR4652	chr7	T	C	1.63E-05	3.67E-01	2.03E-02
rs10774625	intronic	ATXN2	chr12	A	G	1.28E-05	1.21E-02	2.25E-02
rs231976	intergenic	IL27 NUPR1	chr16	G	C	2.14E-05	1.49E-02	2.27E-02
rs10753176	intergenic	SEC16B LOC730102	chr1	C	A	1.47E-05	2.55E-01	2.30E-02
rs2225203	intergenic	LINC01065 LINC00558	chr13	T	A	1.47E-05	1.93E-01	2.35E-02
rs4980550	intergenic	MYEOV LINC01488	chr11	C	T	1.67E-05	2.55E-01	2.38E-02
rs882386	intronic	DMXL2	chr15	G	A	2.14E-05	9.49E-01	2.44E-02
rs11022762	intronic	ARNTL	chr11	C	T	1.95E-05	2.79E-02	2.46E-02
rs11039345	intronic	AGBL2	chr11	A	G	2.51E-05	3.83E-01	2.55E-02
rs12406019	intergenic	GIPC2 MGC27382	chr1	A	G	2.61E-05	3.44E-01	2.62E-02

rs619824	intergenic	WBP1L CYP17A1	chr10	A	C	2.76E-05	1.59E-01	2.62E-02
rs1609761	intronic	REXO1	chr19	A	C	3.62E-05	5.60E-02	2.66E-02
rs3814878	UTR5	FAM57B	chr16	A	G	2.80E-05	2.07E-01	2.66E-02
rs1473	intronic	PUM1	chr1	G	A	4.89E-04	2.67E-04	2.66E-02
rs11674696	intergenic	MIR1302-4 CREB1	chr2	T	C	2.76E-05	6.33E-01	2.73E-02
rs9322955	intergenic	NFKBIA INSM2	chr14	A	G	2.74E-05	4.29E-01	2.75E-02
rs2524099	downstream	HLA-C	chr6	G	A	2.63E-05	1.41E-01	2.76E-02
rs6795735	ncRNA_intronic	ADAMTS9-AS2	chr3	C	T	2.92E-05	2.28E-01	2.84E-02
rs10769933	UTR3	TRIM66	chr11	G	C	2.82E-05	9.39E-02	2.85E-02
rs6510001	intergenic	URI1 ZNF536	chr19	T	G	2.73E-05	8.64E-01	2.86E-02
rs1433075	intronic	ZNF536	chr19	G	T	1.53E-05	1.34E-01	2.87E-02
rs11630705	intronic	ADAMTSL3	chr15	G	C	1.10E-04	7.22E-03	2.99E-02
rs2178950	intronic	TRPS1	chr8	G	C	8.86E-04	3.95E-04	3.06E-02
rs889203	intronic	GPR139	chr16	C	T	3.04E-05	9.65E-01	3.09E-02
rs16969473	intronic	GPR139	chr16	A	G	3.36E-05	6.33E-01	3.12E-02
rs1320252	intergenic	MAP2K3 KCNJ12	chr17	T	C	3.55E-05	7.68E-01	3.21E-02
rs1275691	intronic	GALNT16	chr14	G	A	6.24E-05	3.11E-02	3.27E-02
rs17231277	intergenic	LOC101928435 PSMG1	chr21	C	T	3.68E-05	3.17E-01	3.40E-02
rs10075465	intronic	POC5	chr5	C	G	3.82E-05	1.42E-01	3.43E-02
rs283553	intergenic	TFAP2B PKHD1	chr6	C	G	1.69E-05	1.14E-01	3.52E-02
rs7586043	intergenic	LINC01320 LOC100288911	chr2	G	A	3.94E-05	7.99E-01	3.57E-02
rs9825174	intronic	XXYLT1	chr3	C	T	7.13E-04	2.50E-04	3.64E-02
rs6867577	intronic	FBXL17	chr5	C	A	4.18E-05	7.57E-01	3.65E-02
rs11652097	intergenic	MYL4 ITGB3	chr17	C	T	4.28E-05	1.42E-01	3.81E-02
rs2280018	intronic	PDXDC1	chr16	A	C	4.70E-05	5.10E-01	3.81E-02
rs3776569	intronic	SLC1A3	chr5	G	A	4.80E-05	4.96E-01	3.95E-02
rs7594432	intronic	DNMT3A	chr2	T	C	4.62E-05	5.70E-01	3.97E-02
rs17049738	ncRNA_intronic	LINC01122	chr2	A	C	4.36E-05	9.42E-01	4.07E-02

rs10489882	intronic	SEC16B	chr1	T	C	7.19E-05	4.10E-02	4.38E-02
rs984677	intergenic	CASC20 BMP2	chr20	A	G	5.63E-05	1.49E-01	4.39E-02
rs10934987	intronic	CPNE4	chr3	T	C	5.03E-05	8.66E-01	4.48E-02
rs704084	intergenic	DUSP6 POC1B	chr12	T	C	5.39E-05	5.51E-01	4.48E-02
rs621042	intronic	PIK3C2G	chr12	C	A	5.03E-05	9.34E-01	4.52E-02
rs2710508	intronic	EPHA4	chr2	A	G	6.85E-05	4.47E-02	4.53E-02
rs10853100	intergenic	LOC101927166 HOXB1	chr17	T	C	5.63E-05	7.50E-01	4.65E-02
rs2280406	upstream	MST1R	chr3	G	A	5.63E-05	8.35E-01	4.83E-02
rs732310	intronic	REXO1	chr19	G	T	1.55E-04	1.32E-02	4.91E-02
rs329655	intergenic	IGSF9B LOC100128239	chr11	C	A	5.71E-05	9.96E-01	4.95E-02

2 Independent gene loci ( $r^2 < 0.2$ ) with SNPs that have conditional FDR smaller than 0.05 in BMI|FN BMD. All SNPs are listed with their nearest  
3 gene(s), chromosomal location, effect allele A1, non-effect allele A2, raw p-values for univariate GWAS for each trait and cFDR values for BMI.

20 Supplemental Table 2. Loci associated with FN BMD with Conditional FDR smaller than 0.05 on BMI.

SNP	ROLE	GENE	CHR	A1	A2	P.BMI	P.FN_BMD	cFDR.
								FN_BMD BMI
rs944082	ncRNA_intronic	GNG12-AS1	chr1	T	C	7.45E-02	1.04E-07	9.02E-04
rs170635	intronic	LSM12	chr17	T	C	1.32E-01	1.25E-07	9.45E-04
rs2047937	intronic	ZNF423	chr16	C	T	2.22E-01	2.10E-07	1.77E-03
rs12365254	intronic	LOC102724957	chr11	T	C	2.79E-01	7.97E-08	2.53E-03
rs3759579	upstream	MARK3	chr14	A	G	2.18E-05	3.31E-05	3.54E-03
rs11952384	ncRNA_intronic	MEF2C-AS1	chr5	A	G	4.62E-01	3.82E-07	4.11E-03
rs10917225	intergenic	MIR4418 ZBTB40	chr1	T	C	4.42E-01	4.96E-07	5.09E-03
rs1485305	intergenic	TNFRSF11B COLEC10	chr8	A	T	8.93E-01	2.53E-07	5.39E-03
rs9905128	intergenic	CASC17 LOC102723505	chr17	G	A	9.79E-03	4.33E-06	7.05E-03
rs4505759	intergenic	IDUA FGFRL1	chr4	C	T	1.51E-01	2.21E-06	1.27E-02
rs777354	intergenic	CSRNP3 GALNT3	chr2	A	G	4.84E-01	2.26E-06	1.42E-02
rs10280461	intergenic	EPDR1 STARD3NL	chr7	C	A	6.85E-01	1.28E-06	1.48E-02
rs10054570	intergenic	MEF2C-AS1 MIR3660	chr5	G	T	3.97E-01	1.67E-06	1.53E-02
rs4469491	intergenic	EYA1 MSC	chr8	C	T	8.68E-01	1.26E-06	1.86E-02
rs2566758	ncRNA_intronic	GNG12-AS1	chr1	C	T	7.25E-01	2.49E-06	1.95E-02
rs10506027	intergenic	KLHL42 PTHLH	chr12	A	C	6.34E-01	3.45E-06	2.58E-02
rs10924510	intronic	GPR137B	chr1	C	G	9.90E-01	3.30E-06	2.80E-02
rs724404	intergenic	CYLD LOC101927334	chr16	C	A	1.45E-02	3.89E-05	2.81E-02
rs2419659	ncRNA_intronic	GNG12-AS1	chr1	C	A	2.93E-01	7.96E-06	2.97E-02
rs6494633	intronic	SMAD3	chr15	C	T	2.08E-01	7.59E-06	2.99E-02
rs9350354	intergenic	CDKAL1 LINC00581	chr6	A	G	2.02E-01	6.77E-06	3.12E-02
rs2707183	intergenic	MIR4472-2 LINC00173	chr12	G	T	1.57E-03	1.23E-04	3.31E-02
rs2178950	intronic	TRPS1	chr8	G	C	8.86E-04	3.95E-04	4.08E-02
rs11209223	ncRNA_intronic	GNG12-AS1	chr1	G	A	4.33E-01	7.43E-06	4.14E-02
rs1473	intronic	PUM1	chr1	G	A	4.89E-04	2.67E-04	4.33E-02

rs1949481	intronic	SOX6	chr11	C	T	7.66E-01	8.92E-06	4.52E-02
rs9825174	intronic	XXYLT1	chr3	C	T	7.13E-04	2.50E-04	4.78E-02

21 Independent gene loci ( $r^2 < 0.2$ ) with SNPs that have conditional FDR smaller than 0.05 in FN BMD|BMI. All SNPs are listed with their nearest  
22 gene(s), chromosomal location, effect allele A1, non-effect allele A2, raw p-values for univariate GWAS for each trait and cFDR values for FN  
23 BMD.

24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46

47 Supplemental Table 3. Loci associated with WHR with Conditional FDR smaller than 0.05 on FN BMD.

SNP	ROLE	GENE	CHR	A1	A2	P.WHR	P.FN_BMD	cFDR. WHR FN_BMD
rs2047937	intronic	ZNF423	chr16	C	T	3.80E-04	2.10E-07	1.14E-03
rs2060765	intergenic	NPVF MIR148A	chr7	T	C	1.90E-06	1.05E-02	2.92E-03
rs12022722	intergenic	LYPLAL RNU5F-1	chr1	C	T	9.80E-08	3.71E-01	4.39E-03
rs1423056	intergenic	SLC7A10 CEBPA	chr19	G	A	2.20E-07	5.57E-01	4.86E-03
rs17277372	intronic	DNM3	chr1	A	G	1.60E-03	7.80E-07	6.40E-03
rs4897200	intergenic	MIR588 RSPO3	chr6	C	A	2.00E-07	2.95E-01	7.15E-03
rs12133396	intergenic	LYPLAL1 RNU5F-1	chr1	G	A	5.30E-07	8.86E-01	1.39E-02
rs335170	intronic	PRDM6	chr5	A	C	2.20E-03	1.80E-05	1.91E-02
rs1294400	intergenic	LY86 RREB1	chr6	G	A	1.20E-06	4.11E-01	1.97E-02
rs2920499	intergenic	SYN2 PPARG	chr3	A	G	6.80E-06	9.39E-02	2.04E-02
rs2077111	intergenic	MIR588 RSPO3	chr6	A	C	3.90E-06	9.38E-02	2.34E-02
rs2077111	intergenic	MIR588 RSPO3	chr6	A	G	3.90E-06	9.38E-02	2.34E-02
rs9822326	ncRNA_intronic	LINC00880	chr3	A	C	6.10E-06	7.44E-02	2.91E-02
rs11079813	intronic	SKAP1	chr17	T	C	3.30E-06	6.54E-01	4.27E-02
rs751008	intronic	DOCK1	chr10	G	A	2.80E-06	9.09E-01	4.31E-02
rs6723710	ncRNA_intronic	LINC01122	chr2	C	A	5.40E-06	4.83E-01	4.45E-02
rs10923714	intronic	TBX15	chr1	G	A	5.20E-06	2.09E-01	4.46E-02
rs2485534	intronic	GRIN3A	chr9	T	A	7.60E-06	5.20E-01	4.72E-02
rs2903940	intronic	EYA2	chr20	A	G	8.30E-06	6.38E-01	4.85E-02
rs649721	intergenic	PMAIP1 MC4R	chr18	A	C	4.90E-06	9.38E-01	4.95E-02

48 Independent gene loci ( $r^2 < 0.2$ ) with SNPs that have conditional FDR smaller than 0.05 in WHR|FN BMD. All SNPs are listed with their nearest

49 gene(s), chromosomal location, effect allele A1, non-effect allele A2, raw p-values for univariate GWAS for each trait and cFDR values for  
50 WHR.

51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76

77 Supplemental Table 4.Loci associated with FN BMD with Conditional FDR smaller than 0.05 on WHR.

RSID	ROLE	GENE	CHR	A1	A2	P.WHR	P. FN_BMD	cFDR.
								FN_BMD WHR
rs2047937	intronic	ZNF423	chr16	C	T	3.80E-04	2.10E-07	2.21E-05
rs17277372	intronic	DNM3	chr1	A	G	1.60E-03	7.80E-07	1.01E-04
rs944082	ncRNA_intronic	GNG12-AS1	chr1	T	C	1.70E-01	1.04E-07	1.02E-03
rs1485305	intergenic	TNFRSF11B COLEC10	chr8	A	T	2.10E-01	2.53E-07	1.47E-03
rs12365254	intronic	LOC102724957	chr11	T	C	1.70E-01	7.97E-08	1.49E-03
rs335170	intronic	PRDM6	chr5	A	C	2.20E-03	1.80E-05	1.96E-03
rs11952384	ncRNA_intronic	MEF2C-AS1	chr5	A	G	2.60E-01	3.82E-07	2.21E-03
rs10917225	intergenic	MIR4418 ZBTB40	chr1	T	C	1.90E-01	4.96E-07	2.58E-03
rs10280461	intergenic	EPDR1 STARD3NL	chr7	C	A	1.20E-01	1.28E-06	5.45E-03
rs228752	intronic	LSM12	chr17	T	C	8.10E-01	3.02E-07	5.75E-03
rs6694387	intronic	DNM3	chr1	T	C	1.20E-02	1.77E-05	7.98E-03
rs10054570	intergenic	MEF2C-AS1 MIR3660	chr5	G	T	5.00E-01	1.67E-06	1.06E-02
rs10506027	intergenic	KLHL42 PTHLH	chr12	A	C	1.30E-01	3.45E-06	1.20E-02
rs2566758	ncRNA_intronic	GNG12-AS1	chr1	C	T	4.00E-01	2.49E-06	1.27E-02
rs4759062	intronic	HOXC4	chr12	C	T	2.70E-03	1.44E-04	1.36E-02
rs10924510	intronic	GPR137B	chr1	C	G	3.60E-01	3.30E-06	1.49E-02
rs4469491	intergenic	EYA1 MSC	chr8	C	T	9.80E-01	1.26E-06	1.63E-02
rs777354	intergenic	CSRNP3 GALNT3	chr2	A	G	6.30E-01	2.26E-06	1.67E-02
rs9905128	intergenic	CASC17 LOC102723505	chr17	G	A	4.00E-01	4.33E-06	1.68E-02
rs724404	intergenic	CYLD LOC101927334	chr16	C	A	2.00E-02	3.89E-05	1.78E-02
rs9350354	intergenic	CDKAL1 LINC00581	chr6	A	G	2.20E-01	6.77E-06	1.89E-02
rs6494633	intronic	SMAD3	chr15	C	T	1.30E-01	7.59E-06	2.22E-02
rs4505759	intergenic	IDUA FGFRL1	chr4	C	T	9.50E-01	2.21E-06	2.26E-02
rs1949481	intronic	SOX6	chr11	C	T	3.20E-01	8.92E-06	2.69E-02
rs7936582	intronic	PPP6R3	chr11	T	C	7.00E-02	1.82E-05	2.88E-02

rs11209223	ncRNA_intronic	GNG12-AS1	chr1	G	A	4.90E-01	7.43E-06	2.97E-02
rs2419659	ncRNA_intronic	GNG12-AS1	chr1	C	A	6.50E-01	7.96E-06	3.35E-02
rs10153941	intergenic	PKDCC LOC102723824	chr2	G	T	2.70E-01	1.49E-05	3.71E-02
rs6089336	upstream	OSBPL2	chr20	G	A	1.90E-01	2.51E-05	4.49E-02
rs4854512	intronic	ARHGAP25	chr2	A	G	3.30E-02	7.24E-05	4.51E-02
rs889012	intronic	TRPC7	chr5	G	T	4.00E-01	1.86E-05	4.54E-02
rs3759579	upstream	MARK3	chr14	A	G	6.40E-02	3.31E-05	4.72E-02

78 Independent gene loci ( $r^2 < 0.2$ ) with SNPs that have conditional FDR smaller than 0.05 in FN BMD|WHR. All SNPs are listed with their nearest  
79 gene(s), chromosomal location, effect allele A1, non-effect allele A2, raw p-values for univariate GWAS for each trait and cFDR values for FN  
80 BMD.