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SNP included in candidate genes involved in muscle, lipid and energy metabolism behave like neutral markers

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Table S1. Gene symbol, GeneBank or dbSNP accession number, chromosome location, position on chromosome, and reference where the SNP association was first described

Gene Symbol	GeneBank[1]/dbSNP	Chromosome	Position	Reference
AACT	ss77831967	21	59672584	
AANAT	ss62584155	19	55917798	Sevane et al., 2014
AANAT	ss77831970	19	56955338	Dunner et al., 2013a
ABCA1	ss28451692	8	96290639	
ACACA	ss77831811	19	13035035	
ACACA	ss77831781	19	13035666	
ACADM	ss77831737	3	73884890	
ACAT2	ss65658764	9	97482418	
ACBP	ss77831978	2	74658538	
ACBP	ss77831980	2	74659100	
ACBP	ss77831790	2	74659120	
ACBP	ss77831981	2	74659216	Dunner et al., 2013a
ACBP	ss77831979	2	74658975	
ACVR2B	ss77831984	22	11968413	
ACVR2B	ss77831791	22	11971047	
ADH1A	ss77831985	6	27085290	
ADH7	ss77831988	6	27088618	
AGRP	ss77832250	18	34106874	
ALDH2	ss77831990	17	65579447	Dunner et al., 2013b
ALDH2	ss77831792	17	65572807	
ALDH6	ss77831991	10	87902573	
ALDOA	ss77831817	25	28026949	
ANK1	ss77831796	27	39035577	
ANK1	ss77832114	27	39035529	

ANK1	ss77832116	27	39035144	
ANK1	ss77832115	27	39035705	
ANX1	ss77831819	8	51687198	
ANX1	ss77831782	8	51689730	
ANX1	ss77831820	8	51689765	
ANX1	ss77831818	8	51685776	
ATF4	ss244244311	no info	no info	Sevane et al., 2013
ATP1B2	ss77831793	19	27870164	
ATP1B2	ss77832000	19	27870179	
BCL3	ss65392310	18	52928716	Sevane et al., 2013
BDH	ss77832251	1	73087153	
CALB1	ss77832012	14	72314571	
CALD1	ss77831797	4	102374482	
CALM2	ss77832015	11	30729789	Dunner et al., 2013a
CALM3	ss77832018	18	53538448	
CALM3	ss77832017	18	53538211	
CAPN1	g.6545 AF248054			Page et al., 2002
CAPN1	g.5709 AF252504			Page et al., 2002; Sevane et al., 2014
CAPN1	ss77832261	29	45220994	
CAPN1	ss77832254	29	45220999	Dunner et al., 2013a
CAPN1	ss77831762	29	45221221	
CAPN1	ss77832259	29	45221250	Dunner et al., 2013a
CAPN1	ss77832258	29	45221364	Dunner et al., 2013a
CAPN1	ss77832257	29	45221434	Dunner et al., 2013a
CAPN1	ss77832255	29	45221443	Dunner et al., 2013a
CAPN1	ss77831763	29	45237834	Dunner et al., 2013a
CAPN1	ss77832264	29	45237961	Dunner et al., 2013a
CAPN3	ss77832267	10	37670708	
CAPN3	ss77832266	10	37670539	

CAPN3	ss77832268	10	37659444	
CAPN4	ss77832023	18	46230366	
CASQ1	ss77831822	3	10447904	
CASQ1	ss77831823	3	10452581	
CAST	g.2959 AF159246			Barendse 2002; Sevane et al., 2014
CAST	ss77831765	7	97576054	
CAST	ss77831764	7	97574679	
CAST	ss77832279	7	97531945	
CAST	ss77832274	7	97531951	
CAST	ss77832280	7	97531760	Dunner et al., 2013a
CAST	ss77832278	7	97531769	
CAST	ss77832275	7	97531815	
CAST	ss77832270	7	97555915	
CAV3	ss62797050	22	17833022	Sevane et al., 2014
CFL1	ss77831721	29	45872130	Dunner et al., 2013b
CGGBP	ss65141555	no info	no info	Sevane et al., 2014
CGGBP	ss65141556	no info	no info	
CHRNA1	ss77831826	2	22738321	
CHRNA1	ss77831827	2	22739181	
CHRNE	ss77831831	19	26860411	
CHRNE	ss77831828	19	26859685	
CHRNE	ss77831829	19	26859813	
CHRNE	ss77831830	19	26859844	Dunner et al., 2013b
CHRNE	ss77831722	19	26860946	
c-KIT	g.115 AJ243060			Klungland et al., 2000
CKM	ss77832024	18	52739725	
CLCN1	ss77831783	4	110771391	
CLCN1	ss77831836	4	110771455	
CLCN1	ss77831837	4	110771301	

CLCN1	ss77831838	4	110771650	
CLCN1	ss77831839	4	110771697	
CLCN1	ss77831840	4	110771815	
COL18A1	ss77832284	1	148102653	
COX5B	ss77831807	11	3259398	
COX5B	ss77832287	11	3259359	
COX5B	ss77832285	11	3259559	
COX5B	ss77832286	11	3259138	
CPE	ss77831723	17	669068	
CPE	ss77831842	17	669224	
CPT1A	ss77832290	29	47982251	
CPT1A	ss77832289	29	47982239	
CPT1A	ss77831766	29	47982236	
CPT2	ss77832291	3	99741320	
CRAT	ss77832119	11	103245126	
CRAT	ss77832120	11	103245108	
CREBBP	ss77831798	25	3645109	
CREBBP	ss77832121	25	3645101	
CREBBP	ss77832122	25	3644944	
CRH	g.22 AF340152			Buchanan et al., 2005; Sevane et al., 2014
CRHR1	ss77831799	19	47327030	
CRHR2	ss77831743	19	47325439	
CRHR2	ss77832125	19	47325511	Dunner et al., 2013b
CRHR2	ss77832126	19	47326266	
CRI1	ss77832128	10	62623808	Dunner et al., 2013b
CRYAB	ss62086225	15	22565642	
CSN3	g.13100 AY380229			Kaminski 1996; Sevane et al., 2014
CSRP3	ss77831784	29	26940397	
CTSC	ss77832029	29	7498384	

CTSD	ss77832030	29	51574210	
CTSF	ss77831724	29	46510563	
CTSF	ss77831844	29	46510525	
CTSF	ss77831845	29	46510262	
CTSF	ss77831846	29	46510260	
CTSF	ss77831847	29	46509935	
CTSF	ss77831848	29	46509894	
CTSF	ss77831850	29	46509763	
CTSG	ss77831738	21	34942584	
CTSK	ss77832032	3	21492151	
CTSS	ss77831851	3	21523431	
CYP1A1	ss77832033	21	33998468	
CYP1A1	ss77832034	21	33998195	Dunner et al., 2013a
DAG1	ss77832130	22	51523739	
DES	ss77832133	2	111753535	
DES	ss77832134	2	111759920	
DGAT1	ss77831744	14	446619	Dunner et al., 2013b
DGAT1	ss77831745	14	445086	Grisart et al., 2001; Dunner et al., 2013b; Sevane et al., 2013
DGAT1	ss77832137	14	445087	Dunner et al., 2013b
DGAT2	ss77832040	15	54749192	Dunner et al., 2013a
DGAT2	ss77832041	15	54749249	
DGAT2	ss77832038	15	54749097	Dunner et al., 2013a
DGAT2	ss77847325	15	54749184	Dunner et al., 2013a
DGAT2	ss77832039	15	54749190	Dunner et al., 2013a
DNAJA1	ss65351307	8	76114965	
ENG	ss77832299	11	102084441	
ENG	ss77832295	11	102083660	
ENG	ss77832298	11	102083391	
ENG	ss77832294	11	102083114	

FABP4	ss77831852	14	41955856	
FABP4	ss77831853	14	41955834	
FABP4	ss77831854	14	41955587	
FABP4	ss77831856	14	41955890	
FABP4	ss77831725	14	41955379	
FABP4	ss77831857	14	41955323	
FABP4	ss77831858	14	41956612	
FADS1	ss63322537	29	40942263	Unpublished data
FASN	ss77831808	19	52186447	
FBL	ss77832138	18	48918884	
FBN2	ss77832043	7	24613634	
FIT2	ss61961642	13	73470858	
FKHR	ss77831726	12	21512228	
FKHR	ss77831860	12	21512273	
FKHR	ss77831859	12	21512162	
FKHR	ss77831862	12	21512561	
FKHR	ss77831861	12	21512390	
FMOD	ss77831746	16	118511	
FMOD	ss77831747	16	112728	
FN1	ss77832046		796408	
FST	ss77831785	20	27298155	
GDF8	ss77831863	2	6213980	Grobet et al., 1997
GDF8	ss77831864	2	6216138	Grobet et al., 1997
GDF8	ss77831865	2	6218395	Grobet et al., 1997; Sevane et al., 2013
GH1	ss77832141	19	49660275	
GH1	ss77831800	19	49660125	
GH1	ss77832143			
GHR	g.4962 AM161140			Blott et al., 2003
GHR	ss77831748	20	34086084	

GHR	ss77831801	20	34086192	
GHR	ss77832145	20	33897151	
GHR	ss77832146	20	33897099	
GHR	ss77832149	20	33897071	
GHR	ss77832151	20	33897252	
GHR	ss77832147	20	33896925	
GJB1	ss77832153		49233513	
GPD1	ss77831767	5	32799088	
GPI	ss77831809	18	44523220	
GPI	ss77832305	18	44523338	
GPR24	ss77831802	5	119145917	
GPR24	ss77832156	5	119146022	
GPR24	ss77832155	5	119146041	
GUSB	ss77832306		27062	
HAT1	ss77831866	2	25420909	
HK2	ss77831768	4	79918736	
HK2	ss77832335	4	79918770	
HNF4A	ss61961144	13	73576499	Sevane et al., 2013
HSPB1	ss63015930	25	34857989	Sevane et al., 2014
HSPG2	ss77832337	2	135400416	
HSPG2	ss77831769	2	135413214	
HSPG2	ss77832341	2	135414044	
HSPG2	ss77832338	2	135414340	
IDH1	ss77832054	2	101655852	
IGF1	ss77831727	5	71198324	
IGF1R	ss77831872	21	6838277	
IGF1R	ss77831871	21	6838497	
IGF1R	ss77831875	21	6847932	
IGF2R	ss77831877	9	100104044	

IGF2R	ss77831878	9	100104352	
IGF2R	ss77831880	9	100119165	
IGF2R	ss77831881	9	100119247	
IGF2R	ss77831728	9	100119461	Dunner et al., 2013b
IGF2R	ss77831887	9	100142855	Dunner et al., 2013b
IGF2R	ss77831882	9	100142891	
IGF2R	ss77831883	9	100142950	Dunner et al., 2013b
IGF2R	ss77831884	9	100142952	Dunner et al., 2013b
IGF2R	ss77831885	9	100143009	Dunner et al., 2013b
IGF2R	ss77831886	9	100143263	
IGFBP2	ss77832345	2	108835899	
IGFBP2	ss77831770	2	108835966	Dunner et al., 2013a
IGFBP2	ss77832344	2	108835999	
IGFBP3	ss77831771	4	78899676	
IGFBP3	ss77832347			
IGFBP3	ss77832346	4	78899411	Dunner et al., 2013b
IGFBP5	ss77832349	2	108854401	
IGFBP5	ss77832350	2	108854240	
IGFBP5	ss77832351	2	108854165	
INSR	ss77831786	7	14540192	
INSR	ss77831888	7	14540170	
INSR	ss77831889	7	14540162	
ITGB1	ss77832058	13	19269192	
LDHB	ss77832068	5	94983816	
LDHB	ss77832069	5	94983829	
LEP	ss77832161	4	95689870	
LEP	ss77832159	4	95689996	
LEP	ss77832160	4	95690049	
LEP	ss77831749	4	95689847	

LEP	ss77832162	4	95691972	
LEP	ss77832163	4	95692129	
LEP	ss77832165	4	95692132	
LEP	ss77831750	4	95692144	
LEP	ss77832164	4	95692228	
LEPR	ss77832167	3	85620547	
LGB	g.5864 Z48305			Aschaffenburg & Drewry 1957
LOX	ss77832169	7	30490025	
LOXL1	ss77832173	21	34746039	
LOXL3	ss77832175	11	10417425	
LOXL3	ss77832176	11	10417490	
LPL	ss65478732	8	67487599	Sevane et al., 2013
LPL	ss77832354	8	70212637	
LPL	ss77832357	8	70212997	
LPL	ss77832356	8	70212892	
LUM	ss77831751	5	23684851	
LUM	ss77832177	5	23680689	
MADH3	ss77832358	10	13883227	Dunner et al., 2013a
MC1R	p.G104V S71017			Klungland et al., 1995
MC1R	ss77832360	18	13777466	
MC1R	ss77832361	18	13777480	
MC1R	g.422 S71017			Klungland et al., 1995
MC2R	ss77832362	24	45162719	Dunner et al., 2013a
MC4R	ss77832179	24	61730315	
MC5R	ss77832363	24	45138389	
MC5R	ss77832364	24	45138264	
ME3	ss77831890	29	9446297	Dunner et al., 2013a
ME3	ss77831891	29	9446379	Dunner et al., 2013a
ME3	ss77831729	29	9446220	Dunner et al., 2013a

ME3	ss77831893	29	9449914	
ME3	ss77831894	29	9449962	Dunner et al., 2013a
ME3	ss77831895	29	9449977	Dunner et al., 2013a
ME3	ss77831896	29	9450096	Dunner et al., 2013a
ME3	ss77831898	29	9450101	
ME3	ss77831899	29	9450108	Dunner et al., 2013a
ME3	ss77831900	29	9450115	Dunner et al., 2013a
ME3	ss77831901	29	9450164	
ME3	ss77831902	29	9450196	Dunner et al., 2013a
ME3	ss77831904	29	9450235	
ME3	ss77831905	29	9449195	Dunner et al., 2013a
ME3	ss77831907	29	9449325	Dunner et al., 2013a
ME3	ss77831908	29	9449498	Dunner et al., 2013a
ME3	ss77831730	29	9449608	
ME3	ss77831909	29	9449658	
MEF2C	ss38329156	7	90725014	
MEF2C	ss77831912	7	89490509	
MMP1	ss77831913	15	4783590	
MMP1	ss77831914	15	4783613	Dunner et al., 2013a; Dunner et al., 2013b
MMP1	ss77831915	15	4783623	
MMP1	ss77831916	15	4783678	Dunner et al., 2013b
MMP1	ss77831919	15	4783758	Dunner et al., 2013b
MMP1	ss77831921	15	4760929	Dunner et al., 2013b
MMP1	ss77831922	15	4784976	
MMP1	ss77831923	15	4784846	Dunner et al., 2013b
MMP1	ss77831924	15	4784382	Dunner et al., 2013b
MMP3	ss77831927	15	4728365	
MMP3	ss77831928	15	4729491	
MSC	ss77831787		3157282	

MTATP6	ss77831935		8623	
MYF5	ss77832180	5	12285054	
MYF6	ss77831752	5	12276114	
MYH1	ss77832078	19	30071453	
MYH2	ss77832182	19	30084323	
MYH7	ss77832185	10	21788238	
MYH8	ss77832191	19	29976300	
MYH8	ss77832192	19	29976190	
MYL1	ss77832193	2	103287504	
MYL1	ss77832195	2	103287277	
MYL1	ss77832196	2	103287212	
MYL1	ss77832194	2	103287171	
MYL1	ss77832197	2	103287139	
MYL2	ss77832198	17	57519020	
MYLK2	ss77832199	13	62227537	
MYOD1	ss77831803	15	33494135	
MYOD1	ss77832201	15	33492611	
MYOD1	ss77832200	15	33492555	
MYOG	ss77832203		21370	
MYOZ	ss77831945	28	29004608	Dunner et al., 2013b
MYOZ	ss77831946	28	29004506	
NCOA2	ss77831788	14	34125508	
NEB	ss77832090	2	46796513	Dunner et al., 2013b
NEB	ss77832091	2	46797392	Dunner et al., 2013a
NFKB1	ss77831731	6	23839082	
NFKB1	ss77831949	6	23837913	
NFKB1	ss77831732	6	23837715	
NFKB1	ss77831950	6	23837549	
NRAP	ss77832092	26	34518198	

NRAP	ss77831739	26	34517803	
NRAP	ss77831794	26	34517665	
NRAP	ss77832093	26	34517657	
NRAP	ss77832094	26	34517360	
NRAP	ss77832095	26	34517145	
PAI1	ss77832365	25	37730211	
PAI1	ss77831772	25	37729684	
PAI1	ss77832367	25	37729655	
PAI1	ss77832368	25	37729634	
PAI1	ss77832369	25	37729820	
PAX3	ss77831951	12	21512228	
PAX3	ss77831733	12	21512273	
PAX3	ss77831952	12	21512162	
PAX3	ss77831953	12	21512561	
PAX3	ss77831734	12	21512390	
PC	ss77831804	29	46795331	
PCCB	ss77832097	1	135088832	
PCK2	ss77831753	10	21319170	
PCK2	ss77831805	10	21316054	
PCK2	ss77831754	10	21316038	
PCSK1	ss77831755	7	97150735	Dunner et al., 2013a
PCSK1	ss77831756	7	97150422	
PGAM2	ss77831773	22	76423	Dunner et al., 2013a
PGAM2	ss77831774	22	75996	Dunner et al., 2013a
PGAM2	ss77832371	22	74677	
PKA	ss62837667	22	51710370	
PKA	ss62837580	22	51717613	
PLOD2	ss77832209	1	124766370	
PLOD2	ss77832214	1	124766437	

PLOD2	ss77832211	1	124766572	
PLOD2	ss77832213	1	124766800	
PLOD3	ss77832216	25	37619671	
PLOD3	ss77831757	25	37620506	Dunner et al., 2013a
PLOD3	ss77832217	25	37620628	
PLOD3	ss77832218	25	37620682	Dunner et al., 2013a
PLTP	ss77832104	13	75428449	Dunner et al., 2013b
PLTP	ss77831740	13	75428537	
POMC	ss77832219	11	74116210	Thue & Buchanan 2002; Sevane et al., 2014
PPARA	ss77832372	5	123403127	
PPARA	ss77831775	5	123402977	
PPARG	ss62850198	22	57468357	Sevane et al., 2013
PPARGC1A	c.1892			Weikard et al., 2005
PPARGC1A	c.-920G>A			Weikard et al., 2005
PPARGC1A	c.5314C>T			Weikard et al., 2005; Sevane et al., 2013
PPM2C	ss77831806	14	68772714	Dunner et al., 2013a
PPM2C	ss77832220	14	68772492	
PPM2C	ss77832222	14	68772456	
PPM2C	ss77831758	14	68771682	Dunner et al., 2013a
PRDX5	ss77831741	29	44400039	
PRKAA2	ss77831810	3	95906061	
PRKAA2	ss77831776	3	95906704	
PRKAA2	ss77832374	3	95891456	
PRKAB1	ss77832375	17	58691257	
PRKAG1	ss77831777	5	33850388	
PRKAG2	ss77832378	4	118393064	Dunner et al., 2013a
PRKAG2	ss77832379	4	118392960	Dunner et al., 2013a
PRKAG3	ss77832380	2	111196546	
PRKAG3	ss77832381	2	111196501	

PRKAG3	ss77831778	2	111195874	
PRKAG3	ss77832382	2	111194963	
PRKAG3	ss77831779	2	111194959	
PRKAG3	ss77832388	2	111193643	
PRKAG3	ss77832387	2	111193490	
PRKAG3	ss77832385	2	111193405	
PRKAG3	ss77832389	2	111193823	
PRLR	ss77832107	20	41493025	
PYGM	ss77832390	29	44779513	
RAD	ss62428567	18	34747825	
RORA	ss65549854	10	49738909	Sevane et al., 2014
RORC	g.3290 DQ667048			Barendse et al., 2007
RPS28	ss38325285	7	18199997	
RYR1	ss77832392		10314	
SCAP	ss62839002	22	52816252	Sevane et al., 2013
SCD	g.10329 AY241932			Taniguchi et al., 2004; Sevane et al., 2013
SDC1	ss77832223	11	81005514	
SDC3	ss77832227	2	126675513	
SDC3	ss77832226	2	126675409	
SDC4	ss77832230	13	74433100	
SDC4	ss77832229	13	74433071	
SDC4	ss77831759	13	74433057	
SDC4	ss77832228	13	74433233	
SDC4	ss77832231	13	74432316	
SLC16A1	ss77832108	3	32867796	
SMARCA4	ss38322880	7	16714824	
SOCS2	ss77832232	5	26161111	
SOCS2	ss77832233	5	26163187	
SOCS2	ss77832234	5	26163292	

SOCS3	ss77832235	19	55418412	
SPARC	ss77832109	7	62636713	
SPARC	ss77832110	7	62636681	
SPARC	ss77832112	7	62636140	
SREBP1C	ss62543518	no info	no info	
STAT3	ss77831760	19	43765319	
STAT3	ss77832236	19	43765087	
SUSP1	ss77831761	9	15164972	
TCAP	ss77832238	19	41300839	
TCF12	ss77831957	10	53579108	
TCF12	ss77831958	10	53579107	
TG	g.1696 M35823			Barendse 1999; Sevane et al., 2014
TGFB3	ss77832240	10	89828390	
TGFBR2	ss77832241	22	5098878	
TMOD4	ss77831795	3	21151032	
TNFA	ss244244313	no info	no info	Sevane et al., 2014
TNNC1	ss77831963			
TNNT1	ss77831964	18	62702367	
TNNT1	ss77831735	18	62702925	
TNNT2	ss77832396			
TTN	ss77832242	2	18885536	
TTN	ss77832243	2	18887308	
TUB	ss77832245	5	113717358	
UCP2	ss77831780	15	52965752	
UCP2	ss77832400	15	52965038	
UCP2	ss77832401	15	52964341	
UCP3	ss77832403	15	53110288	Dunner et al., 2013a
UCP3	ss77832408	15	53107789	
UCP3	ss77832409	15	53107543	

VCL	ss77831742	28	29329635	
VIM	ss77831789	13	31482355	
VIM	ss77831965	13	31482554	
VIM	ss77831736	13	31482968	Dunner et al., 2013a
VTN	ss77832412	19	19740865	

[1] GeneBank Accesion Number along with SNP position in the sequence

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