

Table SI. Demographic and clinical characteristics of the study population.

Characteristics	Ischemic stroke	Control	P-value
Female	40%	41%	0.980
Age	70.5±12	70.00±11	0.990
Hypertension	77.40%	81.00%	0.070
Heart failure	16.60%	41.60%	<0.001 ^a
CAD	29.40%	53.80%	<0.001 ^a
MI	16.00%	34.60%	<0.001 ^a
Diabetes	19.60%	56.60%	<0.001 ^a
Smokers	38.4%	37%	0.690

^aStatistically significant differences by χ^2 test or t-test (for age differences). CAD, coronary artery disease; MI, myocardial infarction.

Table SII. Complete list of all unique non-coding variants (irrespective of minor allele frequency) observed in all 54 sequenced genes in the study cohort (controls and patients with stroke).

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
ADAMTS2	chr5	178540880		G	T	Exonic-synonymous
ADAMTS2	chr5	178552091		G	A	Exonic-synonymous
ADAMTS2	chr5	178552185	rs112155474	C	T	Intronic
ADAMTS2	chr5	178552899	rs78566312	C	T	Intronic
ADAMTS2	chr5	178553185	rs2303643	G	A	Intronic
ADAMTS2	chr5	178555196	rs1427845	T	C	Intronic
ADAMTS2	chr5	178557107	rs140401199	T	C	Intronic
ADAMTS2	chr5	178559215		C	A	Intronic
ADAMTS2	chr5	178559878		G	T	Exonic-synonymous
ADAMTS2	chr5	178559990		C	T	Intronic
ADAMTS2	chr5	178562834	rs3822595	C	T	Intronic
ADAMTS2	chr5	178562876	rs370637996	C	T	Intronic
ADAMTS2	chr5	178563003		G	T	Exonic-synonymous
ADAMTS2	chr5	178563125	rs1549603	A	T	Intronic
ADAMTS2	chr5	178564971	rs9286045	C	T	Intronic
ADAMTS2	chr5	178565001	rs2303639	C	T	Intronic
ADAMTS2	chr5	178567082	rs34369919	C	T	Intronic
ADAMTS2	chr5	178579119	rs2303637	C	G	Intronic
ADAMTS2	chr5	178579134	rs115550684	C	T	Intronic
ADAMTS2	chr5	178580549	rs61757478	G	A	Exonic-synonymous
ADAMTS2	chr5	178580639	rs373540125	C	T	Intronic
ADAMTS2	chr5	178580646	rs115740207	G	A	Intronic
ADAMTS2	chr5	178581124	rs41285549	C	T	Exonic-synonymous
ADAMTS2	chr5	178581797	rs2278222	C	T	Intronic
ADAMTS2	chr5	178585692	rs147861022	C	T	Intronic
ADAMTS2	chr5	178608112	rs35462609	G	A	Exonic-synonymous
ADAMTS2	chr5	178608199		G	T	Intronic
ADAMTS2	chr5	178608204	rs78222573	G	A	Intronic
ADAMTS2	chr5	178634743		C	T	Intronic
ADAMTS2	chr5	178770759	rs2271213	C	G	Intronic
AKT2	chr19	40739721	rs2304186	G	T	UTR3
AKT2	chr19	40739765	rs201359719	C	T	UTR3
AKT2	chr19	40739770	rs79275829	G	A	UTR3
AKT2	chr19	40740932	rs375549081	C	T	Intronic
AKT2	chr19	40742161	rs56165898	C	T	Intronic
AKT2	chr19	40743858	rs200438281	G	A	Intronic
AKT2	chr19	40744900		G	T	Intronic
AKT2	chr19	40745778	rs56245956	G	A	Intronic
AKT2	chr19	40745809		G	T	Intronic
AKT2	chr19	40745923	rs12980468	C	T	Intronic
AKT2	chr19	40747798	rs41306976	C	T	Intronic
AKT2	chr19	40748639	rs41311971	C	T	Intronic
AKT2	chr19	40748648	rs35948893	C	T	Intronic
AKT2	chr19	40761026	rs181993899	C	A	Intronic
AKT2	chr19	40761091		G	T	Exonic-synonymous
AKT2	chr19	40762915	rs35588791	G	A	Exonic-synonymous
AKT2	chr19	40763067		C	T	Intronic
AKT2	chr19	40771108	rs56303894	C	T	Intronic
AKT2	chr19	40771205		C	A	UTR5
ANKS1B	chr12	99166735		T	C	Intronic
ANKS1B	chr12	99166805	rs2287574	G	T	Intronic
ANKS1B	chr12	99175752	rs79831132	G	A	Intronic
ANKS1B	chr12	99175789	rs567349853	T	C	Intronic
ANKS1B	chr12	99175870	rs17028679	G	C	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
ANKS1B	chr12	99189415	rs112804197	A	G	Intronic
ANKS1B	chr12	99288355	rs185471235	C	G	Intronic
ANKS1B	chr12	99288496	rs112380553	C	T	UTR5
ANKS1B	chr12	99446977	rs80197475	C	T	Exonic-synonymous
ANKS1B	chr12	99837420		G	C	Intronic
ANKS1B	chr12	100049083	rs11109978	C	T	Intronic
ANKS1B	chr12	100166602	rs149365029	C	T	Intronic
ANKS1B	chr12	100166796	rs370857411	C	T	Exonic-synonymous
ANKS1B	chr12	100175761	rs73145431	T	C	Intronic
ANKS1B	chr12	100175876		C	A	splicing
ANKS1B	chr12	100200263		C	A	Exonic-synonymous
ANKS1B	chr12	100378068		C	A	UTR5
ATP6V1F	chr7	128502920	rs11547837	C	T	UTR5
ATP6V1F	chr7	128503102	rs144361793	C	A	Exonic-synonymous
COMMD7	chr20	31315821	rs200305991	G	T	Intronic
COMMD7	chr20	31315867	rs2064937	C	T	Intronic
CTCFL	chr20	56078499	rs138934649	G	A	Exonic-synonymous
CTCFL	chr20	56083873	rs41304417	G	A	Intronic
CTCFL	chr20	56087642		C	T	Intronic
CTCFL	chr20	56088958	rs6513310	C	T	Intronic
CTCFL	chr20	56089590	rs147926178	C	T	Intronic
CTCFL	chr20	56090914		C	A	Intronic
CTCFL	chr20	56094297		G	T	Exonic-synonymous
CTCFL	chr20	56098400	rs66593447	T	G	Intronic
CTCFL	chr20	56099305	rs11699220	G	A	UTR5
CUBN	chr10	16873396	rs141937843	G	A	Exonic-synonymous
CUBN	chr10	16876992	rs370911251	C	T	Intronic
CUBN	chr10	16878204	rs703062	T	C	Intronic
CUBN	chr10	16878295	rs139596037	G	T	Exonic-synonymous
CUBN	chr10	16883020		C	A	Exonic-synonymous
CUBN	chr10	16883044	rs372599172	T	C	Exonic-synonymous
CUBN	chr10	16911567	rs703074	C	T	Intronic
CUBN	chr10	16911605	rs703075	C	A	Intronic
CUBN	chr10	16916308	rs181055353	C	T	Intronic
CUBN	chr10	16916364		C	A	Intronic
CUBN	chr10	16918972	rs1801241	A	G	Exonic-synonymous
CUBN	chr10	16930608	rs375597321	G	A	Intronic
CUBN	chr10	16932470	rs369599232	G	A	Exonic-synonymous
CUBN	chr10	16942694		G	T	Exonic-synonymous
CUBN	chr10	16948177	rs780807	A	G	Intronic
CUBN	chr10	16949550	rs3740165	T	C	Exonic-synonymous
CUBN	chr10	16955834	rs201001705	C	T	Exonic-synonymous
CUBN	chr10	16957083	rs201002903	G	A	Exonic-synonymous
CUBN	chr10	16967325	rs11254278	C	T	Exonic-synonymous
CUBN	chr10	16979566	rs2356589	G	T	Intronic
CUBN	chr10	16980925	rs3817218	C	T	Intronic
CUBN	chr10	16981106		G	T	Exonic-synonymous
CUBN	chr10	16989272	rs61841454	G	A	Exonic-synonymous
CUBN	chr10	16989486	rs2271467	T	A	Intronic
CUBN	chr10	16991876	rs28473579	G	C	Intronic
CUBN	chr10	16991940		C	T	Intronic
CUBN	chr10	16992010		C	A	Exonic-synonymous
CUBN	chr10	16996611		G	T	Intronic
CUBN	chr10	17007959		G	T	Intronic
CUBN	chr10	17008027		G	T	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
CUBN	chr10	17024441	rs41289309	G	A	Intronic
CUBN	chr10	17061980	.	G	T	Exonic-synonymous
CUBN	chr10	17085795	rs139744584	A	T	Intronic
CUBN	chr10	17087156	rs1873469	G	A	Exonic-synonymous
CUBN	chr10	17087211	rs181387097	A	G	Intronic
CUBN	chr10	17088006	rs1801228	T	C	Exonic-synonymous
CUBN	chr10	17110110	rs148712017	G	A	Exonic-synonymous
CUBN	chr10	17110598	rs78549445	T	G	Intronic
CUBN	chr10	17110722	.	G	A	Exonic-synonymous
CUBN	chr10	17113827	.	G	T	Exonic-synonymous
CUBN	chr10	17130199	rs41289311	G	A	Exonic-synonymous
CUBN	chr10	17146590	rs12571671	A	G	Exonic-synonymous
CUBN	chr10	17147403	rs41302970	C	T	Intronic
CUBN	chr10	17147624		C	A	Intronic
CUBN	chr10	17151785		G	T	Intronic
CUBN	chr10	17157402	rs45498199	G	A	Intronic
CUBN	chr10	17164569	rs11254381	G	A	Intronic
CUBN	chr10	17164625	rs7070148	A	C	Intronic
CUBN	chr10	17165552	rs2273737	T	G	Intronic
CUBN	chr10	17165703		G	T	Intronic
CUBN	chr10	17169811	rs200466568	G	A	Intronic
FBXL7	chr5	15500852		G	T	Intronic
FBXL7	chr5	15500889	rs512861	A	G	Intronic
FBXL7	chr5	15616105		G	T	Exonic-synonymous
FBXL7	chr5	15927927	rs66504704	A	G	Intronic
FBXL7	chr5	15928459	rs191291497	C	T	Exonic-synonymous
FBXL7	chr5	15936989		G	T	Exonic-synonymous
FBXL7	chr5	15936995	rs142704418	C	T	Exonic-synonymous
FBXL7	chr5	15937010	rs61748187	C	T	Exonic-synonymous
FCER1G	chr1	161188158	rs112079466	C	A	Intronic
FCER1G	chr1	161188572		G	C	Intronic
FCER1G	chr1	161188587	rs11590967	G	A	Intronic
FCER1G	chr1	161188649	rs41270849	G	A	Intronic
FCER1G	chr1	161185062		G	A	Upstream; downstream
GLIS3	chr9	3879388	rs368380872	C	T	Intronic
GLIS3	chr9	3879441	rs202217571	G	A	Exonic-synonymous
GLIS3	chr9	3879646	rs17692969	G	A	Intronic
GLIS3	chr9	3932283	rs535978	C	G	Intronic
GLIS3	chr9	3932479	rs371770632	G	C	Intronic
GLIS3	chr9	4118167		C	A	Exonic-synonymous
GLIS3	chr9	4118922		C	T	Intronic
GLIS3	chr9	4285986	rs10758591	G	C	Intronic
GLIS3	chr9	4286255	rs117802495	G	A	Exonic-synonymous
GLIS3	chr9	4286312	rs370797710	A	T	Exonic-synonymous
GLIS3	chr9	4286365		T	G	Exonic-synonymous
GMDS	chr6	1624673	rs371984133	G	A	Intronic
GMDS	chr6	1624879	rs115927032	C	T	Intronic
GMDS	chr6	1726590	rs41300829	G	A	Intronic
GMDS	chr6	1742632	rs146336419	C	T	Intronic
GMDS	chr6	2115962	rs11963303	G	A	Intronic
GMDS	chr6	2115992	rs17134693	T	C	Intronic
GMDS	chr6	2116145	rs369080253	G	C	Intronic
GMDS	chr6	2124999	rs1033533	C	G	Intronic
GMDS	chr6	2245481	rs138853519	A	G	Intronic
GMDS	chr6	2245498		G	T	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
GMDS	chr6	2245510	rs370562357	G	T	Intronic
GNAZ	chr22	23438116	rs41296233	C	T	Exonic-synonymous
GNAZ	chr22	23438569	rs17853740	C	T	Exonic-synonymous
GNAZ	chr22	23465564	rs555717993	C	T	Exonic-synonymous
HSD17B6	chr12	57167590		G	T	Intronic
HSD17B6	chr12	57178875	rs535193208	C	G	Intronic
IPCEF1, OPRM1	chr6	154533993	rs75091793	T	C	Intronic
IPCEF1	chr6	154535276	rs9478525	G	A	Intronic
IPCEF1	chr6	154542283	rs549852112	C	G	Intronic
JAK2	chr9	5050689		C	A	Exonic-synonymous
JAK2	chr9	5050840		C	G	Intronic
JAK2	chr9	5066617	rs186522660	A	T	Intronic
JAK2	chr9	5072560	rs146433914	C	T	Exonic-synonymous
JAK2	chr9	5078466	rs200502073	T	C	Intronic
JAK2	chr9	5080392	rs192823036	T	C	Intronic
JAK2	chr9	5089739		C	A	Exonic-synonymous
JAK2	chr9	5090448		C	A	Exonic-synonymous
JAK2	chr9	5090641	rs10974955	G	A	Intronic
JAK2	chr9	5090934	rs2274649	A	T	Intronic
JMJD1C	chr10	64928347	rs200089221	G	A	Intronic
JMJD1C	chr10	64937415	rs2306263	C	T	Intronic
JMJD1C	chr10	64946180	rs150264825	T	C	Intronic
JMJD1C	chr10	64952914	rs372628812	A	G	Intronic
JMJD1C	chr10	64960318		G	T	Exonic-synonymous
JMJD1C	chr10	64973853		G	T	Exonic-synonymous
JMJD1C	chr10	64973890	rs112116567	A	G	Exonic-synonymous
JMJD1C	chr10	64974535	rs142118527	C	T	Exonic-synonymous
JMJD1C	chr10	64976886	rs68053125	T	G	Intronic
JMJD1C	chr10	65140279	rs117741358	T	C	Intronic
JMJD1C-AS1	chr10	65225210		G	T	ncRNA_exonic
JMJD1C-AS1	chr10	65225450	rs1054693	C	T	ncRNA_exonic
KCNQ1	chr11	2483030		G	T	Intronic
KCNQ1	chr11	2549099		G	T	Intronic
KCNQ1	chr11	2591893	rs139042529	C	T	Exonic-synonymous
KCNQ1	chr11	2592554		G	T	Splicing
KCNQ1	chr11	2592568		C	A	Exonic-synonymous
KCNQ1	chr11	2593185	rs7128407	C	T	Intronic
KCNQ1	chr11	2593386	rs370720389	C	T	Intronic
KCNQ1	chr11	2593959	rs41282926	G	A	Intronic
KCNQ1	chr11	2593977	rs4930127	A	G	Intronic
KCNQ1	chr11	2594277	rs572923188	C	T	Intronic
KCNQ1	chr11	2604635		C	T	Intronic
KCNQ1	chr11	2604659		C	A	Intronic
KCNQ1	chr11	2604715		C	A	Exonic-synonymous
KCNQ1	chr11	2606621	rs56413900	C	T	Intronic
KCNQ1	chr11	2608802		C	A	Exonic-synonymous
KCNQ1	chr11	2610103	rs201053661	G	A	Intronic
KCNQ1	chr11	2610113	rs200638235	G	A	Intronic
KCNQ1	chr11	2790163	rs11024034	T	C	Intronic
KCNQ1	chr11	2797128		A	G	Intronic
KCNQ1	chr11	2797294		G	A	Intronic
KCNQ1	chr11	2797305	rs376557660	G	A	Intronic
KCNQ1	chr11	2799380	rs150950451	G	A	Intronic
KCNQ1OT1	chr11	2683177	rs28730758	C	T	ncRNA_exonic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
KCNQ1OT1	chr11	2683329	rs12577654	C	T	ncRNA_exonic
KCNQ1OT1	chr11	2683357	rs760419	A	G	ncRNA_exonic
KLHL31	chr6	53516516	rs142726111	C	A	Exonic-synonymous
KLHL31	chr6	53517035	rs3823111	G	A	Exonic-synonymous
KLHL31	chr6	53519062	rs10948758	A	G	Exonic-synonymous
KLHL31	chr6	53519207		G	T	Exonic-synonymous
KLHL31	chr6	53519857	rs12210809	G	A	Exonic-synonymous
LDHAL6A	chr11	18487305	rs17851143	C	G	Exonic-synonymous
LDHAL6A	chr11	18499316		A	G	Intronic
LPAR1	chr9	113638070	rs182493473	C	A	Intronic
LPAR1	chr9	113704224	rs17788474	A	G	Exonic-synonymous
LPAR1	chr9	113800811	rs150494808	C	T	Upstream
LPAR1	chr9	113800858	rs138115457	T	C	Upstream
LPAR1	chr9	113800910		G	T	Upstream
LPAR1	chr9	113800931	rs77865995	C	T	Upstream
LRRFIP1	chr2	238536246	rs28364855	C	T	UTR5
LRRFIP1	chr2	238536255	rs10170083	C	G	UTR5
LRRFIP1	chr2	238601230	rs182990338	C	G	Intronic
LRRFIP1	chr2	238617109	rs150094393	C	G	Intronic
LRRFIP1	chr2	238617320	rs115274199	G	A	Intronic
LRRFIP1	chr2	238617391		C	A	Intronic
LRRFIP1	chr2	238617516	rs143042974	C	A	Intronic
LRRFIP1	chr2	238622855		C	G	Intronic
LRRFIP1	chr2	238626455		A	C	Intronic
LRRFIP1	chr2	238628220	rs373273314	G	A	Intronic
LRRFIP1	chr2	238629563		G	A	Intronic
LRRFIP1	chr2	238632240		C	A	Intronic
LRRFIP1	chr2	238642395		G	A	Intronic
LRRFIP1	chr2	238643840	rs56245924	G	A	Intronic
LRRFIP1	chr2	238643990	rs3769077	G	A	Intronic
LRRFIP1	chr2	238647805	rs3820808	C	G	Intronic
LRRFIP1	chr2	238647848	rs372597035	G	A	Intronic
LRRFIP1	chr2	238657142	rs11692182	C	T	Intronic
LRRFIP1	chr2	238657746	rs3769064	A	G	Intronic
LRRFIP1	chr2	238659821	rs146402354	C	T	Intronic
LRRFIP1	chr2	238662107	rs201084665	C	T	Exonic-synonymous
LRRFIP1	chr2	238664729	rs56219042	C	G	Intronic
LRRFIP1	chr2	238664884	rs11680940	T	C	Intronic
LRRFIP1	chr2	238667311	rs7566942	T	C	Intronic
LRRFIP1	chr2	238667552	rs2279639	T	C	Intronic
LRRFIP1	chr2	238671170	rs3739047	G	A	Intronic
LRRFIP1	chr2	238671196	rs3739044	T	C	Intronic
LRRFIP1	chr2	238671940	rs15232	C	T	Exonic-synonymous
LRRFIP1	chr2	238672795	rs12477133	C	T	UTR3
LRRFIP1	chr2	238678549		G	T	Intronic
LRRFIP1	chr2	238680678	rs56219137	A	G	Intronic
MAP2K2	chr19	4090572	rs6629	G	A	UTR3
MAP2K2	chr19	4090577	rs145743390	G	A	UTR3
MAP2K2	chr19	4095523	rs41276854	C	T	Intronic
MAP2K2	chr19	4097249	.	G	A	Intronic
MAP2K2	chr19	4099175	.	G	A	Intronic
MAP2K2	chr19	4101006	rs202086678	C	T	Intronic
MAP2K2	chr19	4101221	rs201435249	C	T	Intronic
MAP2K2	chr19	4102507		G	T	Intronic
MAP2K2	chr19	4102530	rs113772802	G	A	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
MAP2K2	chr19	4110495		G	T	Intronic
MAP2K2	chr19	4110699	rs112996316	C	T	Intronic
MAP2K2	chr19	4117528	rs8157	G	A	Exonic-synonymous
MAP2K2	chr19	4123918	.	A	G	UTR5
MAP2K2	chr19	4110495		G	T	Intronic
MAP2K2	chr19	4110699	rs112996316	C	T	Intronic
MAP2K2	chr19	4117528	rs8157	G	A	Exonic-synonymous
MAP2K2	chr19	4123918	.	A	G	UTR5
MAP2K4	chr17	11924022	rs188370673	T	C	Upstream
MAP2K4	chr17	11998798		C	A	Intronic
MAP2K4	chr17	11998803	rs117308356	C	T	Intronic
MAP2K4	chr17	12011076		A	G	Intronic
MAP2K4	chr17	12032630	rs557270571	G	T	Intronic
MAP2K4	chr17	12044353	rs76810515	T	C	Intronic
MAP2K4	chr17	12044508	rs55924570	C	A	Exonic-synonymous
MAP2K4	chr17	12044628	.	G	A	UTR3
MAPK14	chr6	36040579		T	C	Intronic
MAPK14	chr6	36040937	rs3730365	C	T	Intronic
MAPK14	chr6	36041431		A	T	Intronic
MAPK14	chr6	36041707	rs3730326	G	T	Intronic
MAPK14	chr6	36043748	rs201408793	C	A	Intronic
MAPK14	chr6	36044225	rs3730366	A	G	Intronic
MAPK14	chr6	36068041	rs2815805	T	C	Exonic-synonymous
MIPOL1	chr14	7736054	rs17106526	T	C	Intronic
MIPOL1	chr14	37736092	.	T	C	Intronic
MIPOL1	chr14	37777731		C	A	Intronic
MIPOL1	chr14	38014928	rs17179204	C	T	Intronic
RAPGEF2	chr4	160131622	rs138067772	C	T	Intergenic
RAPGEF2	chr4	160159949	rs77229150	C	A	Intergenic
RAPGEF2	chr4	160162402	.	A	G	Intergenic
MRVII	chr11	10624621	.	C	T	Intronic
MRVII	chr11	10624644	rs190290919	G	C	Intronic
MRVII	chr11	10624647	rs200641260	C	T	Intronic
MRVII	chr11	10649293	rs35296427	G	A	Exonic-synonymous
MRVII	chr11	10649652	rs78054600	G	A	Intronic
MRVII	chr11	10650329	rs2278125	C	T	Exonic-synonymous
MRVII	chr11	10650335		G	T	Exonic-synonymous
MRVII	chr11	10650350	rs190761149	G	A	Exonic-synonymous
MRVII	chr11	10650443		C	A	Intronic
MRVII	chr11	10651134	rs112262864	C	T	Exonic-synonymous
MRVII	chr11	10653426	rs10840450	A	G	Intronic
MRVII	chr11	10653442	rs77974559	C	G	Intronic
MRVII	chr11	10715034	rs150327526	G	A	UTR5
MRVII-AS1	chr11	10597850		A	C	ncRNA_intronic
MRVII-AS1	chr11	10603611	rs370028241	G	A	ncRNA_intronic
MRVII-AS1	chr11	10613162	rs200359923	G	A	ncRNA_intronic
MRVII-AS1	chr11	10614913	rs72862310	A	G	ncRNA_intronic
MRVII-AS1	chr11	10615176	rs371992142	G	A	ncRNA_intronic
MRVII-AS1	chr11	10615257	rs117131664	G	T	ncRNA_intronic
MRVII-AS1	chr11	10615687	rs200472330	G	A	ncRNA_exonic
MTCL1	chr18	8718666	rs201830543	G	A	Intronic
MTCL1	chr18	8720328		C	A	Intronic
MTCL1	chr18	8720368	rs73939505	C	T	Exonic-synonymous
MTCL1	chr18	8777724	rs373821001	C	T	Intronic
MTCL1	chr18	8783501	rs143648570	T	G	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
MTCL1	chr18	8784487	rs138167149	C	T	Exonic-synonymous
MTCL1	chr18	8785976		C	A	Exonic-synonymous
MTCL1	chr18	8792894	rs112296307	G	A	Intronic
MTCL1	chr18	8792991	rs199831945	A	G	Intronic
MTCL1	chr18	8796549	rs112076971	C	T	Intronic
MTCL1	chr18	8796551	rs540278	T	G	Intronic
MTCL1	chr18	8806815	rs11877424	A	G	Intronic
MTCL1	chr18	8807082	.	C	T	Intronic
MTCL1	chr18	8807111		G	T	Intronic
MTCL1	chr18	8807162	rs11872700	T	C	Intronic
MTCL1	chr18	8809568	rs690079	G	A	Intronic
MTCL1	chr18	8819023	rs142108234	C	T	Exonic-synonymous
MTCL1	chr18	8824706	rs372236045	C	T	Exonic-synonymous
MTCL1	chr18	8825003	rs114022207	G	A	Exonic-synonymous
MTCL1	chr18	8825081	rs148702862	C	T	Exonic-synonymous
MTCL1	chr18	8825096	rs113084211	G	A	Exonic-synonymous
MTCL1	chr18	8825192	rs581894	A	G	Exonic-synonymous
MTCL1	chr18	8825399	rs16954339	C	T	Exonic-synonymous
MTCL1	chr18	8828788	rs17406924	G	A	Intronic
MTCL1	chr18	8828898		C	A	Intronic
MTCL1	chr18	8828952	rs2242273	C	T	UTR3
MTCL1	chr18	8829019	rs35592049	G	T	Intronic
MTCL1	chr18	8829035	rs2170297	G	A	Intronic
MTCL1	chr18	8829061	rs145420274	G	A	Intronic
MTCL1	chr18	8831615	rs11665124	G	A	UTR3
MYO5B	chr18	47352955	rs78657366	T	G	Exonic-synonymous
MYO5B	chr18	47364009	rs149010847	G	A	Exonic-synonymous
MYO5B	chr18	47369644		G	T	Exonic-synonymous
MYO5B	chr18	47369728		G	T	Exonic-synonymous
MYO5B	chr18	47369758	rs2276170	C	T	Exonic-synonymous
MYO5B	chr18	47390526	rs201760142	G	A	Exonic-synonymous
MYO5B	chr18	47401935	rs2276172	C	T	Intronic
MYO5B	chr18	47404124	rs75971548	A	G	Intronic
MYO5B	chr18	47405530	rs4939603	C	T	Intronic
MYO5B	chr18	47406863	.	C	A	Intronic
MYO5B	chr18	47421425		G	A	Exonic-synonymous
MYO5B	chr18	47433007	rs151267350	A	G	Intronic
MYO5B	chr18	47438382		C	A	Intronic
MYO5B	chr18	47438607		C	A	Intronic
MYO5B	chr18	47438660	rs2276167	C	T	Intronic
MYO5B	chr18	47455896	rs200559863	A	G	Exonic-synonymous
MYO5B	chr18	47462711		G	T	Exonic-synonymous
MYO5B	chr18	47462799	rs183646156	C	T	Intronic
MYO5B	chr18	47462804	rs1787596	G	A	Intronic
MYO5B	chr18	47479744	rs77785690	G	A	Intronic
MYO5B	chr18	47480625	rs77851006	T	C	Intronic
MYO5B	chr18	47480639	rs187153618	A	C	Intronic
MYO5B	chr18	47480849	rs186568716	G	T	Intronic
MYO5B	chr18	47489430	rs58191032	G	A	Intronic
MYO5B	chr18	47489480	rs16951327	C	T	Intronic
MYO5B	chr18	47500836	rs11082795	G	A	Exonic-synonymous
MYO5B	chr18	47500989	rs138582195	T	C	Intronic
MYO5B	chr18	47506778	rs61177844	T	C	Intronic
MYO5B	chr18	47516704	rs11875730	C	T	Intronic
MYO5B	chr18	47518652	rs16951370	A	G	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
MYO5B	chr18	47527817	rs12969222	T	G	Intronic
MYO5B	chr18	47566483	rs201912377	G	A	Intronic
MYO5B	chr18	47623592	rs79642388	G	A	Intronic
NUP210	chr3	13360513	rs184930	C	T	Intronic
NUP210	chr3	13360687		C	A	Intronic
NUP210	chr3	13361399		G	T	Exonic-synonymous
NUP210	chr3	13363856	rs200132462	C	T	Intronic
NUP210	chr3	13363874	rs62232824	G	A	Intronic
NUP210	chr3	13364876	rs514084	G	T	Exonic-synonymous
NUP210	chr3	13367322		G	T	Exonic-synonymous
NUP210	chr3	13373893	rs11918212	G	C	Intronic
NUP210	chr3	13373956		C	A	Intronic
NUP210	chr3	13377044		G	A	Exonic-synonymous
NUP210	chr3	13378214		A	C	Intronic
NUP210	chr3	13378304		G	T	Exonic-synonymous
NUP210	chr3	13379400	rs3773302	C	T	Exonic-synonymous
NUP210	chr3	13381539	rs2271508	C	T	Intronic
NUP210	chr3	13383540	rs2271504	A	G	Exonic-synonymous
NUP210	chr3	13393631	rs144623047	G	A	Exonic-synonymous
NUP210	chr3	13399752		G	T	Exonic-synonymous
NUP210	chr3	13399948	rs6807718	T	C	Intronic
NUP210	chr3	13413371	rs41293405	G	A	Exonic-synonymous
NUP210	chr3	13417758		A	C	Intronic
NUP210	chr3	13417770	rs145634800	G	A	Intronic
NUP210	chr3	13418947	rs62232830	G	C	Intronic
NUP210	chr3	13419165	rs59575416	G	A	Intronic
NUP210	chr3	13420383	rs115522829	C	A	Intronic
NUP210	chr3	13420428		G	T	Exonic-synonymous
NUP210	chr3	13421320	rs7625586	T	C	Intronic
NUP210	chr3	13432743		C	A	Exonic-synonymous
NUP210	chr3	13438830	rs13066607	A	G	Intronic
NUP210	chr3	13439005	rs7628923	A	G	Intronic
NUP210	chr3	13441452	rs563369213	C	T	Intronic
PCK1	chr20	56136408	rs28383583	G	A	Intronic
PCK1	chr20	56137081		C	A	Intronic
PCK1	chr20	56137082	rs181554736	G	A	Intronic
PCK1	chr20	56137807	rs1042523	A	G	Exonic-synonymous
PCK1	chr20	56138053	rs537628761	G	A	Intronic
PCK1	chr20	56138178	rs28359544	C	T	Exonic-synonymous
PCK1	chr20	56138573		C	A	Intronic
PCK1	chr20	56139358	.	C	T	Exonic-synonymous
PCK1	chr20	56139415	rs141878699	G	A	Exonic-synonymous
PIK3CG	chr7	106507997	.	C	A	UTR5
PIK3CG	chr7	106508057	rs3729673	C	T	Exonic-synonymous
PIK3CG	chr7	106508285		G	A	Exonic-synonymous
PIK3CG	chr7	106509630		C	A	Exonic-synonymous
PIK3CG	chr7	106513352		C	A	Exonic-synonymous
PIK3CG	chr7	106520149	rs200767793	C	T	Intronic
PIK3CG	chr7	106520200	rs41276172	C	G	Intronic
PIK3CG	chr7	106523446	rs849397	A	G	Intronic
PIK3CG	chr7	106526551	rs28763993	A	C	Intronic
PIP5K1B	chr9	71509599	rs953036	A	G	Intronic
PIP5K1B	chr9	71549994	rs201072884	C	T	Intronic
PIP5K1B	chr9	71549995	rs188212589	G	A	Intronic
PIP5K1B	chr9	71555522	rs10746974	C	T	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
PIP5K1B	chr9	71555924	rs74752903	T	C	Intronic
PRNP	chr20	4679836	rs78236631	G	A	Intronic
PRNP	chr20	4680217	rs8124214	A	G	Exonic-synonymous
PRNP	chr20	4680349	.	G	A	Exonic-synonymous
PRNP	chr20	4680490	rs539013899	C	T	Exonic-synonymous
PRNP	chr20	4680698	rs116970629	G	A	UTR3
PSKH2	chr8	87060611		G	A	Downstream
PSKH2	chr8	87081855		C	A	Upstream
PSKH2	chr8	87081873		C	A	Upstream
PTPN11	chr12	112856983	rs7973432	C	A	Intronic
PTPN11	chr12	112891203	rs41304351	G	C	Intronic
PTPN11	chr12	112893748		G	T	Intronic
PTPN11	chr12	112915434	rs41279090	C	T	Intronic
PTPN11	chr12	112919869	rs12301915	C	A	Intronic
PTPN11	chr12	112919928	.	C	T	Exonic-synonymous
PTPN11	chr12	112926788	rs368816519	C	G	Intronic
PTPN11	chr12	112939853	rs3741983	C	T	Intronic
PTPRD	chr9	8338878	rs3847286	A	C	Intronic
PTPRD	chr9	8338886	rs150903419	G	A	Intronic
PTPRD	chr9	8340491	rs41281781	G	T	Intronic
PTPRD	chr9	8341628	rs113343906	C	T	Intronic
PTPRD	chr9	8375882		G	C	Intronic
PTPRD	chr9	8375886	rs117865820	G	A	Intronic
PTPRD	chr9	8389364	rs2279776	C	G	Exonic-synonymous
PTPRD	chr9	8404607	rs138755135	G	A	Exonic-synonymous
PTPRD	chr9	8436560	rs1359117	A	T	Intronic
PTPRD	chr9	8436758		T	C	Intronic
PTPRD	chr9	8437141	rs10977104	G	C	Intronic
PTPRD	chr9	8454566	rs7031287	T	C	Intronic
PTPRD	chr9	8460591	rs34577174	A	G	Intronic
PTPRD	chr9	8465598	rs2281747	A	G	Exonic-synonymous
PTPRD	chr9	8470974	rs1359120	G	A	Intronic
PTPRD	chr9	8484039	rs16928002	C	T	Intronic
PTPRD	chr9	8485153	rs139221909	G	A	Intronic
PTPRD	chr9	8485183	rs117199503	T	A	Intronic
PTPRD	chr9	8485201	rs13286908	T	C	Intronic
PTPRD	chr9	8485435	rs35777094	G	C	Intronic
PTPRD	chr9	8485686	rs7863060	T	C	Intronic
PTPRD	chr9	8485689	rs544664016	T	C	Intronic
PTPRD	chr9	8485743	rs200119622	G	A	Intronic
PTPRD	chr9	8485802	.	A	G	Exonic-synonymous
PTPRD	chr9	8485823		C	A	Exonic-synonymou
PTPRD	chr9	8486132	rs144111555	G	C	Exonic-synonymous
PTPRD	chr9	8486355	rs183119115	G	A	Intronic
PTPRD	chr9	8486482	rs13292865	T	C	Intronic
PTPRD	chr9	8500902	rs61733168	G	A	Exonic-synonymous
PTPRD	chr9	8507502	rs186924057	C	T	Intronic
PTPRD	chr9	8517837	rs79838662	A	G	Intronic
PTPRD	chr9	8518098	rs145325302	C	A	Exonic-synonymous
PTPRD	chr9	8518251		G	T	Exonic-synonymous
PTPRD	chr9	8518269		C	A	Exonic-synonymous
PTPRD	chr9	8518395	rs3763653	G	A	Exonic-synonymous
PTPRD	chr9	8518470	rs3763652	C	G	Intronic
PTPRD	chr9	8521244	rs3818346	C	T	Intronic
PTPRD	chr9	8523557	rs368623322	A	G	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
PTPRD	chr9	8524797	rs191633839	T	C	Intronic
PTPRD	chr9	8524808	rs182338215	C	T	Intronic
PTPRD	chr9	8524862	rs72694784	G	A	Intronic
PTPRD	chr9	8524921		C	A	Intronic
PTPRD	chr9	8526540	rs540626110	C	T	Intronic
PTPRD	chr9	8633542	rs187327262	G	A	Intronic
RAF1	chr3	12626106		C	A	Exonic-synonymous
RAF1	chr3	12626588		G	T	Intronic
RAF1	chr3	12626792	rs187514758	A	G	Intronic
RAF1	chr3	12629056		G	T	Intronic
RAF1	chr3	12633168	rs2290161	A	G	Intronic
RAF1	chr3	12633260		G	T	Exonic-synonymous
RAF1	chr3	12641345	rs369196677	T	C	Intronic
RAF1	chr3	12641425	rs5746223	T	C	Intronic
RAP1B	chr12	69050235	rs141697489	G	A	Intronic
RAP1B	chr12	69050971	rs201781080	A	G	UTR3
RAPGEF2	chr4	160225553	rs200475351	C	T	Exonic-synonymous
RAPGEF2	chr4	160251449	rs55734414	A	G	Intronic
RAPGEF2	chr4	160251451	rs56024370	A	G	Intronic
RAPGEF2	chr4	160253868		C	A	Intronic
RAPGEF2	chr4	160259442	rs116292425	C	G	Intronic
RAPGEF2	chr4	160260209	rs13127789	G	T	Intronic
RAPGEF2	chr4	160260396	rs61748171	G	A	Exonic-synonymous
RAPGEF2	chr4	160272310	.	A	G	Intronic
RAPGEF2	chr4	160274664	.	C	A	Exonic-synonymous
RAPGEF2	chr4	160275116	rs145873578	G	A	Exonic-synonymous
RAPGEF2	chr4	160277255	.	G	A	Exonic-synonymous
RAPGEF2	chr4	160277276	rs1135004	C	T	Exonic-synonymous
RAPGEF2	chr4	160279203		C	G	Intronic
RAPGEF2	chr4	160279387	rs556927096	C	T	UTR3
SHH	chr7	155592844	.	T	A	Intergenic
SHH	chr7	155592864	.	C	A	Intergenic
SHH	chr7	155593201		G	T	Intergenic
SHH	chr7	155593277		T	C	Intergenic
RGS7	chr1	240975213	rs2275742	T	C	Intronic
RGS7	chr1	241031841	rs181453607	C	T	Intronic
RGS7	chr1	241032059	.	G	T	Intronic
RGS7	chr1	241093972	rs3912109	C	G	Intronic
RGS7	chr1	241099870	rs115500158	A	G	Intronic
RGS7	chr1	241099872	rs77379720	T	C	Intronic
RGS7	chr1	241261914	rs180999285	A	C	Intronic
RGS7	chr1	241262006		C	A	Exonic-synonymous
SETBP1	chr18	42449305	rs647155	G	A	Intronic
SETBP1	chr18	42530886	rs150136756	T	G	Exonic-synonymous
SETBP1	chr18	42532026		C	A	Exonic-synonymous
SETBP1	chr18	42532290		G	T	Exonic-synonymous
SETBP1	chr18	42532533	rs539686339	G	A	Exonic-synonymous
SETBP1	chr18	42532923	rs34882016	T	C	Exonic-synonymous
SETBP1	chr18	42533106		C	A	Exonic-synonymous
SETBP1	chr18	42618610	.	G	A	Exonic-synonymous
SETBP1	chr18	42643076		C	A	Exonic-synonymous
SETBP1	chr18	42643106	rs145996171	C	A	Exonic-synonymous
SGCZ	chr8	13965569	rs117754749	A	G	Intronic
SGCZ	chr8	14022296	rs6993740	A	T	Intronic
SGCZ	chr8	15095076	rs74672231	G	A	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
SGCZ	chr8	15095085	rs4831331	C	G	Intronic
SHH	chr7	155595960		G	A	Exonic-synonymous
SHH	chr7	155596413	rs9333633	C	T	Exonic-synonymous
SHH	chr7	155596437		G	T	Intronic
SNHG22	chr18	47367846		C	A	ncRNA_intronic
SNHG22	chr18	47369844	rs139580795	G	A	ncRNA_intronic
SNHG22	chr18	47373466	rs3017176	G	A	ncRNA_intronic
SNHG22	chr18	47375932	rs488890	C	G	ncRNA_intronic
ST3GAL3	chr1	44257846	rs201960656	C	A	Intronic
ST3GAL3	chr1	44365165		G	A	Intronic
ST3GAL3	chr1	44365273	rs115003742	C	T	Exonic-synonymous
ST3GAL3	chr1	44365291	rs12140044	C	T	Exonic-synonymous
ST3GAL3	chr1	44365457	rs783304	A	G	Intronic
ST3GAL3	chr1	44386282		G	T	Intronic
ST3GAL3	chr1	44386445	rs80055718	G	A	Intronic
ST3GAL3	chr1	44386628		C	A	Intronic
ST3GAL4	chr11	126276006	rs190884962	C	T	UTR5
ST3GAL4	chr11	126276959	rs77689136	G	A	Intronic
ST3GAL4	chr11	126277537		G	T	Intronic
ST3GAL4	chr11	126277545	rs554887290	G	A	Intronic
ST3GAL4	chr11	126278027	rs141211562	C	T	Exonic-synonymous
ST3GAL4	chr11	126278203	rs2298475	T	C	Exonic-synonymous
ST3GAL4	chr11	126278444	rs539310350	G	A	Intronic
ST3GAL4	chr11	126283936		C	A	Exonic-synonymous
STMN4	chr8	27096677	rs13276223	A	G	Intronic
STMN4	chr8	27097329	rs79575108	C	A	Intronic
STMN4	chr8	27098715	rs149089268	G	A	Exonic-synonymous
STMN4	chr8	27099879	rs3739212	C	T	Intronic
STMN4	chr8	27100014	rs3739213	G	A	Intronic
STMN4	chr8	27100052	rs191650514	C	A	Intronic
STMN4	chr8	27101204	rs4733040	T	A	Intronic
STMN4	chr8	27101206	rs7830662	A	C	Intronic
SVIL	chr10	29747221	rs41299212	G	A	Exonic-synonymous
SVIL	chr10	29752485	rs56022643	G	A	Exonic-synonymous
SVIL	chr10	29754543	rs111548204	C	T	Exonic-synonymous
SVIL	chr10	29754675	rs56248456	A	G	Exonic-synonymous
SVIL	chr10	29759237		G	T	Exonic-synonymous
SVIL	chr10	29769680		C	A	Exonic-synonymous
SVIL	chr10	29777508	rs140019869	G	A	Intronic
SVIL	chr10	29779936	rs45519332	G	A	Exonic-synonymous
SVIL	chr10	29782066	rs4749439	A	G	Intronic
SVIL	chr10	29783813	rs6481600	G	A	Intronic
SVIL	chr10	29783856	rs147715501	C	T	Exonic-synonymous
SVIL	chr10	29784004	rs28427082	G	A	Intronic
SVIL	chr10	29785454	rs12414470	C	T	Intronic
SVIL	chr10	29787997	rs114540768	G	A	Intronic
SVIL	chr10	29788082		C	A	Exonic-synonymous
SVIL	chr10	29788109		C	A	Exonic-synonymous
SVIL	chr10	29797131	rs61849294	G	A	Intronic
SVIL	chr10	29797240		G	T	Intronic
SVIL	chr10	29797405	rs16930338	A	G	Intronic
SVIL	chr10	29801555	rs60356120	T	C	Intronic
SVIL	chr10	29801659	rs56817459	G	A	Intronic
SVIL	chr10	29801848	rs12775779	G	A	Intronic
SVIL	chr10	29811392	rs146267453	C	A	Exonic-synonymous

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
SVIL	chr10	29811461		C	A	Exonic-synonymous
SVIL	chr10	29812789		C	A	Exonic-synonymous
SVIL	chr10	29813348	rs61846562	T	G	Intronic
SVIL	chr10	29813382	rs61846563	C	T	Intronic
SVIL	chr10	29813506		C	T	Exonic-synonymous
SVIL	chr10	29820122	rs369422313	A	G	Intronic
SVIL	chr10	29820936		C	A	Exonic-synonymous
SVIL	chr10	29821523	rs1328323	T	C	Exonic-synonymous
SVIL	chr10	29824956	rs143011277	G	A	Exonic-synonymous
SVIL	chr10	29839513	rs10159964	A	G	Intronic
SVIL	chr10	29839693	rs141506698	C	T	Exonic-synonymous
SVIL	chr10	29844018	rs375845375	G	C	UTR5
SVIL-AS1	chr10	29747109	rs41313816	A	G	ncRNA_intronic
SVIL-AS1	chr10	29747166	rs376294931	G	A	ncRNA_intronic
SVIL-AS1	chr10	29751086	rs117849440	G	A	ncRNA_intronic
SVIL-AS1	chr10	29751092	rs12777968	G	C	ncRNA_intronic
SVIL-AS1	chr10	29756842	rs199516107	G	A	ncRNA_exonic
SVIL-AS1	chr10	29759427	rs2274492	G	A	ncRNA_intronic
SVIL-AS1	chr10	29759434	rs2274493	C	T	ncRNA_intronic
SVIL-AS1	chr10	29762946		G	T	ncRNA_intronic
SVIL-AS1	chr10	29770502		C	A	ncRNA_intronic
SVIL-AS1	chr10	29770692		G	T	ncRNA_intronic
SVIL-AS1	chr10	29770732		C	A	ncRNA_intronic
SVIL-AS1	chr10	29774905	rs34518368	C	T	ncRNA_intronic
SVIL-AS1	chr10	29775005		G	T	ncRNA_intronic
SVIL-AS1	chr10	29776046	rs139711576	G	A	ncRNA_intronic
SVIL-AS1	chr10	29776277		G	T	ncRNA_exonic
TAOK1	chr17	27778757		G	T	Intronic
TAOK1	chr17	27807416	rs56387760	A	G	Exonic-synonymous
TAOK1	chr17	27844593	rs75790207	A	G	Exonic-synonymous
TAOK1	chr17	27861259		C	A	Exonic-synonymous
TAOK1	chr17	27870065	rs139171312	C	T	UTR3
THSD4	chr15	71507352	rs28704071	T	A	Intronic
THSD4	chr15	71507761		G	T	Intronic
THSD4	chr15	71507764	rs12324441	G	C	Intronic
THSD4	chr15	71535458	rs12440013	G	C	Intronic
THSD4	chr15	71704288	rs561505943	C	T	Intronic
THSD4	chr15	71839637	rs568720691	C	T	UTR5
THSD4	chr15	72037530		G	T	Exonic-synonymous
THSD4	chr15	72037599		C	A	Intronic
THSD4	chr15	72037600	rs143257420	G	A	Intronic
THSD4	chr15	72040957	.	G	A	Intronic
THSD4	chr15	72050139	rs8026426	C	T	Intronic
THSD4	chr15	72050436	rs924555	T	C	Intronic
THSD4	chr15	72050508	rs924556	G	A	Intronic
THSD4	chr15	72063436		C	A	Exonic-synonymous
THSD4	chr15	72069605		C	T	Exonic-synonymous
THSD4	chr15	72072967		G	C	UTR3
THSD4	chr15	72072989	rs200841286	A	T	UTR3
THSD4	chr15	72073003	rs2291275	C	T	UTR3
THSD4	chr15	72073039	rs34435520	G	A	UTR3
THSD4	chr15	72073189	rs17811309	G	A	UTR3
THSD4	chr15	72073208	.	C	T	UTR3
TRIM27	chr6	28872036	rs41270608	G	A	Exonic-synonymous
TRIM27	chr6	28888058	rs114472201	G	A	Intronic

Table SII. Continued.

Gene	Chr	Position	dbSNP	Ref	Alt	Func.refgene
UGT1A1	chr2	234675567	rs6708136	C	T	Intronic
UGT1A1	chr2	234676458	rs12471326	T	C	Intronic
UGT1A1	chr2	234676504		C	A	Exonic-synonymous
UGT1A1	chr2	234676536		G	T	Exonic-synonymous
UGT1A1	chr2	234676593	rs61764033	C	T	Intronic
UGT1A1	chr2	234677014		G	T	Exonic-synonymous
UGT1A1	chr2	234678238	rs199786512	C	T	Intronic
UGT1A1	chr2	234678282		G	T	Intronic
UGT1A1	chr2	234680887	rs200350292	C	T	Intronic
UGT1A10	chr2	234545294	rs11683356	G	A	Exonic-synonymous
VAMP8	chr2	85804850	rs370015241	C	T	Intronic
VAMP8	chr2	85804917	rs141129979	C	T	Intronic
VAMP8	chr2	85806979	rs181757413	G	A	Intronic
VAMP8	chr2	85807017		C	A	Intronic
VAMP8	chr2	85808871	rs1058588	C	T	UTR3
VAV3	chr1	108119007	rs112984085	G	C	Intronic
VAV3	chr1	108138961	rs17229705	T	C	Exonic-synonymous
VAV3	chr1	108152630	rs2296877	G	T	Intronic
VAV3	chr1	108292013	rs17229647	T	C	Intronic
VAV3	chr1	108298001	rs72979653	C	G	Intronic
VAV3	chr1	108299809	rs12138353	G	A	Intronic
VAV3	chr1	108313258	rs6583048	C	T	Exonic-synonymous
VAV3	chr1	108319891	rs17020006	A	G	Exonic-synonymous
VAV3	chr1	108319965	rs17235990	G	C	Intronic
VAV3-AS1	chr1	108507209	rs56193625	G	A	ncRNA_intronic
WBSCR17	chr7	70597884	rs61741535	G	A	Exonic-synonymous
WBSCR17	chr7	70597935	rs145550936	C	T	Exonic-synonymous
WBSCR17	chr7	70598014		C	A	Exonic-synonymous
WBSCR1	chr7	70598104	rs12673981	C	T	Intronic
WBSCR17	chr7	70853118	rs77859267	C	T	Intronic
WBSCR17	chr7	70853164	rs150802893	A	G	Intronic
WBSCR17	chr7	70853465		A	C	Intronic
WBSCR17	chr7	70885993	rs61737661	C	T	Exonic-synonymous
WBSCR17	chr7	71036182	rs66840657	C	T	Intronic
WBSCR17	chr7	71036188		C	T	Intronic
WBSCR17	chr7	71036425	rs146138772	T	C	Intronic
WBSCR17	chr7	71134923	rs201781233	T	C	Intronic
WBSCR17	chr7	71134983	rs35612272	C	A	Exonic-synonymous
WBSCR17	chr7	71135043	rs17143818	C	T	Exonic-synonymous
WBSCR17	chr7	71135103		G	T	Intronic
WBSCR17	chr7	71142312	rs73354138	A	G	Intronic

Chr, chromosome; dbSNP, The Single Nucleotide Polymorphism database; Ref, reference; Alt, alternative; ncRNA, non-coding RNA; UTR, untranslated region; Func.reference, function of reference gene.

Table SIII. Complete list of all observed (irrespective of minor allele frequency) non- synonymous variants in all 54 sequenced genes in the study patients (controlled and stroke).

Gene	dbSNP	Amino acid change	CADD
ADAMTS2	rs144078893	ADAMTS2:NM_014244:exon22:c.C3607T:p.R1203W	13.64
ADAMTS2	.	ADAMTS2:NM_014244:exon22:c.G3567T:p.K1189N	15.70
ADAMTS2	rs1054480	ADAMTS2:NM_014244:exon22:c.C3529T:p.P1177S	10.57
ADAMTS2	.	ADAMTS2:NM_014244:exon19:c.C2932A:p.R978S	8.772
ADAMTS2	.	ADAMTS2:NM_014244:exon19:c.G2884A:p.A962T	16.16
ADAMTS2	rs367796431	ADAMTS2:NM_014244:exon19:c.G2818A:p.V940M	18.13
ADAMTS2	.	ADAMTS2:NM_014244:exon19:c.C2816A:p.S939Y	10.81
ADAMTS2	rs140022033	ADAMTS2:NM_014244:exon19:c.G2795A:p.R932Q	15.61
ADAMTS2	rs141650732	ADAMTS2:NM_014244:exon15:c.T2267C:p.V756A	4.300
ADAMTS2	.	ADAMTS2:NM_014244:exon12:c.G1872C:p.E624D	17.15
ADAMTS2	.	ADAMTS2:NM_014244:exon11:c.C1749A:p.F583L	18.15
ADAMTS2	.	ADAMTS2:NM_014244:exon8:c.G1373T:p.R458L	26.3
ADAMTS2	.	ADAMTS2:NM_014244:exon6:c.A1067G:p.H356R	14.20
ADAMTS2	rs117222015	ADAMTS2:NM_014244:exon4:c.G764A:p.R255Q	9.462
ADAMTS2	rs398829	ADAMTS2:NM_014244:exon4:c.G733A:p.V245I	3.478
ADAMTS2	rs11750821	ADAMTS2:NM_014244:exon4:c.G722A:p.R241H	2.950
AKT2	rs142926499	AKT2:NM_001243028:exon13:c.C1213T:p.R405W	28.3
AKT2	.	AKT2:NM_001243028:exon11:c.G1020T:p.E340D	14.19
AKT2	.	AKT2:NM_001243028:exon10:c.C883T:p.R295C	14.17
AKT2	rs200272953	AKT2:NM_001243028:exon3:c.A26G:p.N9S	14.73
AKT2	.	AKT2:NM_001243028:exon10:c.G880T:p.E294X	34
ANKS1B	.	ANKS1B:NM_001204068:exon3:c.G308T:p.R103I	16.38
ANKS1B	rs77436242	ANKS1B:NM_152788:exon13:c.C2240G:p.S747C	17.46
ANKS1B	.	ANKS1B:NM_152788:exon12:c.G1586T:p.R529L	21.8
ANKS1B	rs148678454	ANKS1B:NM_152788:exon11:c.G1456A:p.A486T	13.47
ANKS1B	.	ANKS1B:NM_152788:exon7:c.C889T:p.P297S	0.295
ANKS1B	rs200240398	ANKS1B:NM_152788:exon1:c.C50T:p.A17V	14.94
ANKS1B	.	ANKS1B:NM_152788:exon13:c.G1888T:p.E630X	35
ATP6V1F	.	ATP6V1F:NM_001198909:exon1:c.C5T:p.A2V	31
ATP6V1F	rs117627878	ATP6V1F:NM_001198909:exon2:c.C218T:p.P73L	10.49
ATP6V1F	rs200874610	ATP6V1F:NM_004231:exon2:c.G301A:p.A101T	12.11
ATP6V1F	.	ATP6V1F:NM_004231:exon2:c.G306T:p.K102N	19.86
ATP6V1F	.	ATP6V1F:NM_004231:exon2:c.G320T:p.R107L	26.2
COMMD7	.	COMMD7:NM_001099339:exon4:c.C256A:p.L86I	11.31
COMMD7	.	COMMD7:NM_001099339:exon2:c.G100T:p.E34X	43
CTCFL	.	CTCFL:NM_001269054:exon8:c.G1026T:p.K342N	1.848
CTCFL	.	CTCFL:NM_001269048:exon6:c.T1291G:p.S431A	1.824
CTCFL	rs6070122	CTCFL:NM_001269048:exon5:c.C1141G:p.Q381E	20.9
CTCFL	.	CTCFL:NM_001269048:exon5:c.C1084A:p.R362S	19.81
CTCFL	rs6092491	CTCFL:NM_001269054:exon6:c.G557A:p.R186H	11.86
CTCFL	rs41305825	CTCFL:NM_001269054:exon6:c.A553G:p.M185V	4.324
CTCFL	.	CTCFL:NM_001269054:exon5:c.G538T:p.D180Y	20.6
CTCFL	.	CTCFL:NM_001269054:exon3:c.G203T:p.R68L	18.05
CTCFL	rs146122711	CTCFL:NM_001269054:exon3:c.G199A:p.V67I	8.611
CTCFL	.	CTCFL:NM_001269054:exon3:c.G163T:p.D55Y	16.32
CTCFL	rs146560816	CTCFL:NM_001269041:exon2:c.A563T:p.K188M	11.04
CTCFL	rs6025606	CTCFL:NM_001269041:exon1:c.A529G:p.T177A,	4.405
CTCFL	.	CTCFL:NM_001269041:exon1:c.C466A:p.L156I	12.40
CTCFL	.	CTCFL:NM_001269041:exon1:c.C181A:p.L61M	13.99
CTCFL	rs147244405	CTCFL:NM_001269041:exon1:c.G152A:p.R51H	12.55
CTCFL	rs6070128	CTCFL:NM_001269041:exon1:c.G148C:p.E50Q,	6.687
CUBN	rs1801232	CUBN:NM_001081:exon66:c.C10656A:p.N3552K	2.114
CUBN	.	CUBN:NM_001081:exon64:c.G10351T:p.D3451Y	16.12
CUBN	rs117035284	CUBN:NM_001081:exon59:c.G9340A:p.G3114S	21.2

Table SIII. Continued.

Gene	dbSNP	Amino acid change	CADD
CUBN	.	CUBN:NM_001081:exon58:c.G9217T:p.D3073Y	12.78
CUBN	.	CUBN:NM_001081:exon57:c.C9075G:p.D3025E	13.46
CUBN	rs1801240	CUBN:NM_001081:exon57:c.A9005G:p.E3002G	11.71
CUBN	rs115888073	CUBN:NM_001081:exon57:c.G8968A:p.V2990I	8.734
CUBN	rs1801239	CUBN:NM_001081:exon57:c.A8950G:p.I2984V	5.376
CUBN	rs45569534	CUBN:NM_001081:exon56:c.G8902C:p.E2968Q	12.97
CUBN	rs45551835	CUBN:NM_001081:exon55:c.C8741T:p.A2914V	23.2
CUBN	rs150488625	CUBN:NM_001081:exon55:c.G8671A:p.V2891I	0.899
CUBN	rs1801238	CUBN:NM_001081:exon55:c.C8635A:p.L2879I	14.23
CUBN	rs146847375	CUBN:NM_001081:exon54:c.G8593A:p.V2865M	15.64
CUBN	rs141737312	CUBN:NM_001081:exon53:c.C8399T:p.T2800I	15.52
CUBN	rs2796835	CUBN:NM_001081:exon52:c.C8150G:p.S2717W	5.471
CUBN	rs3740168	CUBN:NM_001081:exon50:c.C7724G:p.P2575R	7.428
CUBN	.	CUBN:NM_001081:exon48:c.G7466T:p.R2489L	13.43
CUBN	rs117128556	CUBN:NM_001081:exon48:c.T7365A:p.D2455E	6.203
CUBN	rs41301097	CUBN:NM_001081:exon47:c.T7346C:p.M2449T	1.016
CUBN	.	CUBN:NM_001081:exon45:c.G6950T:p.R2317L	15.95
CUBN	rs1276712	CUBN:NM_001081:exon43:c.G6485A:p.C2162Y	0.018
CUBN	rs62619939	CUBN:NM_001081:exon42:c.G6459C:p.L2153F	16.47
CUBN	rs150392211	CUBN:NM_001081:exon40:c.A6091G:p.T2031A	13.58
CUBN	.	CUBN:NM_001081:exon40:c.G6040T:p.D2014Y	13.36
CUBN	rs41289303	CUBN:NM_001081:exon39:c.C5924T:p.P1975L	12.95
CUBN	rs41289305	CUBN:NM_001081:exon39:c.A5803G:p.S1935G	8.719
CUBN	rs2271462	CUBN:NM_001081:exon37:c.G5518A:p.G1840S	15.55
CUBN	.	CUBN:NM_001081:exon37:c.A5467G:p.I1823V	7.063
CUBN	rs141640975	CUBN:NM_001081:exon34:c.C5069T:p.A1690V	28.7
CUBN	rs1801231	CUBN:NM_001081:exon31:c.C4675T:p.P1559S	9.394
CUBN	rs141164907	CUBN:NM_001081:exon24:c.T3356C:p.L1119S	9.653
CUBN	.	CUBN:NM_001081:exon22:c.C3088A:p.L1030I	2.755
CUBN	.	CUBN:NM_001081:exon22:c.G3085T:p.D1029Y	10.28
CUBN	rs148869805	CUBN:NM_001081:exon20:c.A2756G:p.H919R	8.685
CUBN	rs7905349	CUBN:NM_001081:exon17:c.C2188T:p.H730Y	0.012
CUBN	.	CUBN:NM_001081:exon17:c.C2184G:p.F728L	6.704
CUBN	.	CUBN:NM_001081:exon14:c.A1664G:p.H555R	0.017
CUBN	rs1801224	CUBN:NM_001081:exon11:c.C1165A:p.P389T	14.04
CUBN	rs1801222	CUBN:NM_001081:exon8:c.T758C:p.F253S	2.587
CUBN	.	CUBN:NM_001081:exon66:c.G10612T:p.E3538X	51
CUBN	.	CUBN:NM_001081:exon43:c.C6560A:p.S2187X	47
FBXL7	rs201995635	FBXL7:NM_001278317:exon3:c.A296G:p.N99S,	11.79
FBXL7	.	FBXL7:NM_001278317:exon3:c.G506T:p.R169L,	13.11
FBXL7	.	FBXL7:NM_001278317:exon4:c.G1088A:p.G363D,	20.2
GLIS3	.	GLIS3:NM_152629:exon10:c.C2287A:p.R763S,	32
GLIS3	rs149840771	GLIS3:NM_152629:exon6:c.G1631A:p.R544H,	7.569
GLIS3	.	GLIS3:NM_152629:exon4:c.G1391T:p.R464L,	30
GLIS3	.	GLIS3:NM_152629:exon3:c.G1114T:p.D372Y,	24.0
GLIS3	rs72687988	GLIS3:NM_152629:exon3:c.G1080C:p.E360D,	14.09
GLIS3	.	GLIS3:NM_152629:exon3:c.G1069T:p.D357Y,	16.76
GLIS3	rs6415788	GLIS3:NM_152629:exon3:c.C902A:p.P301Q,	1.187
GLIS3	.	GLIS3:NM_152629:exon3:c.C887A:p.P296H,	5.620
GLIS3	.	GLIS3:NM_152629:exon3:c.C784A:p.L262M,	8.959
GLIS3	rs138497710	GLIS3:NM_152629:exon3:c.G726C:p.Q242H,	15.66
GLIS3	rs148572278	GLIS3:NM_152629:exon3:c.C428A:p.S143Y,	22.1
GLIS3	rs113754532	GLIS3:NM_001042413:exon2:c.A82G:p.I28V	13.74
GLIS3	.	GLIS3:NM_152629:exon5:c.G1498T:p.E500X,	44
GLIS3	.	GLIS3:NM_152629:exon3:c.G1099T:p.E367X,	39

Table III. Continued.

Gene	dbSNP	Amino acid change	CADD
GMDS	.	GMDS:NM_001253846:exon10:c.G909T:p.Q303H,	11.88
GNAZ	.	GNAZ:NM_002073:exon2:c.G295T:p.D99Y	16.26
GNAZ	.	GNAZ:NM_002073:exon2:c.G475T:p.D159Y	24.8
GNAZ	.	GNAZ:NM_002073:exon3:c.G842A:p.R281H	19.63
GNAZ	rs545366122	GNAZ:NM_002073:exon3:c.G901A:p.A301T	36
HSD17B6	.	HSD17B6:NM_003725:exon2:c.G112T:p.D38Y	28.5
HSD17B6	.	HSD17B6:NM_003725:exon5:c.G796T:p.D266Y	15.28
JAK2	rs150221602	JAK2:NM_004972:exon19:c.G2538C:p.E846D	14.82
JAK2	rs41316003	JAK2:NM_004972:exon24:c.G3188A:p.R1063H	15.39
JAK2	rs142269166	JAK2:NM_004972:exon25:c.A3323G:p.N1108S	9.816
JMJD1C	rs1935	JMJD1C:NM_001282948:exon25:c.G7059C:p.E2353D	15.29
JMJD1C	.	JMJD1C:NM_001282948:exon17:c.G5762T:p.R1921L,	25.6
JMJD1C	rs41274064	JMJD1C:NM_001282948:exon15:c.C5393T:p.P1798L	11.74
JMJD1C	.	JMJD1C:NM_001282948:exon9:c.A3391G:p.T1131A,	9.345
JMJD1C	.	JMJD1C:NM_001282948:exon9:c.C3298A:p.L1100I,	8.498
JMJD1C	.	JMJD1C:NM_001282948:exon9:c.C2852A:p.P951H,	16.28
JMJD1C	.	JMJD1C:NM_001282948:exon9:c.G2589T:p.E863D,	3.322
JMJD1C	rs201696710	JMJD1C:NM_001282948:exon7:c.A2033G:p.Y678C	16.65
JMJD1C	rs41274068	JMJD1C:NM_001282948:exon7:c.C1403T:p.T468I	13.45
JMJD1C	rs41274072	JMJD1C:NM_001282948:exon7:c.A1225G:p.M409V	0.669
JMJD1C	.	JMJD1C:NM_001282948:exon7:c.C1094A:p.S365Y,	7.739
JMJD1C	rs41274074	JMJD1C:NM_001282948:exon7:c.C1001G:p.T334S	7.911
JMJD1C	rs10761725	JMJD1C:NM_001282948:exon7:c.T844A:p.S282T,	7.754
JMJD1C	rs151186255	JMJD1C:NM_001282948:exon7:c.T833C:p.M278T,	0.049
JMJD1C	rs200016210	JMJD1C:NM_001282948:exon7:c.G574C:p.D192H,	19.06
JMJD1C	rs201497554	JMJD1C:NM_001282948:exon6:c.G413A:p.S138N,	22.2
JMJD1C	rs370533547	JMJD1C:NM_001282948:exon6:c.G383A:p.R128H,	15.06
JMJD1C	rs34798625	JMJD1C:NM_001282948:exon5:c.G268A:p.A90T,	7.055
JMJD1C	.	JMJD1C:NM_001282948:exon25:c.G7045T:p.E2349X	48
KCNQ1	.	KCNQ1:NM_181798:exon1:c.G4T:p.D2Y	5.3
KCNQ1	rs199472712	KCNQ1:NM_000218:exon5:c.G724T:p.D242Y,	19.35
KCNQ1	.	KCNQ1:NM_000218:exon6:c.G855T:p.K285N,	15.48
KCNQ1	rs12720457	KCNQ1:NM_000218:exon9:c.G1179T:p.K393N	6.56
KCNQ1	.	KCNQ1:NM_000218:exon12:c.G1545T:p.K515N	13.22
KCNQ1	rs147445322	KCNQ1:NM_000218:exon16:c.G1831A:p.D611N	13.42
KCNQ1	.	KCNQ1:NM_000218:C1637A:pS546X	39
KCNQ1	rs199472793	KCNQ1:NM_000218: c.1597T:p.R533W	15.28
KLHL31	rs200137077	KLHL31:NM_001003760:exon3:c.G1541C:p.R514T	19.78
KLHL31	rs3799261	KLHL31:NM_001003760:exon3:c.G1522A:p.A508T	17.41
KLHL31	rs61745239	KLHL31:NM_001003760:exon3:c.G1432T:p.A478S	19.72
KLHL31	rs149644917	KLHL31:NM_001003760:exon2:c.T713C:p.M238T	8.078
KLHL31	rs3799260	KLHL31:NM_001003760:exon2:c.G466A:p.V156I	13.41
LDHAL6A	.	LDHAL6A:NM_144972:exon3:c.G259A:p.A87T	18.01
LDHAL6A	rs201761125	LDHAL6A:NM_144972:exon3:c.C295T:p.R99C,	15.07
LDHAL6A	rs140413894	LDHAL6A:NM_144972:exon3:c.G335T:p.R112L	18.54
LDHAL6A	rs201642140	LDHAL6A:NM_144972:exon4:c.G512A:p.R171H	16.29
LDHAL6A	.	LDHAL6A:NM_144972:exon5:c.G636T:p.K212N,	17.48
LPAR1	rs372111806	LPAR1:NM_001401:exon3:c.G529A:p.V177I,	5.776
LPAR1	rs147151638	LPAR1:NM_001401:exon3:c.A181G:p.I61V,	1.493
LRRFIP1	rs188452721	LRRFIP1:NM_001137550:exon7:c.G379A:p.A127T	11.11
LRRFIP1	rs201910589	LRRFIP1:NM_001137550:exon9:c.G488T:p.R163L	10.34
LRRFIP1	rs3213869	LRRFIP1:NM_001137551:exon7:c.A656G:p.Q219R,	11.89
LRRFIP1	rs2001301	LRRFIP1:NM_001137553:exon8:c.A1085G:p.N362S	0.920
LRRFIP1	.	LRRFIP1:NM_001137551:exon9:c.G833T:p.R278L	2.955
LRRFIP1	.	LRRFIP1:NM_001137551:exon9:c.G865T:p.D289Y	17.81

Table III. Continued.

Gene	dbSNP	Amino acid change	CADD
LRRFIP1	.	LRRFIP1:NM_001137551:exon7:c.C701A:p.S234X	38
LRRFIP1	.	LRRFIP1:NM_001137553:exon8:c.G844T:p.E282X	25.0
LRRFIP1	.	LRRFIP1:NM_001137553:exon8:c.C2156A:p.S719X	37
MAP2K2	.	MAP2K2:NM_030662:exon7:c.C782T:p.A261V	21.5
MIPOL1	.	MIPOL1:NM_138731:exon6:c.C335T:p.T112	18.19
MIPOL1	.	MIPOL1:NM_138731:exon11:c.C925T:p.R309C	22.6
MRV11	.	MRV11:NM_001206881:exon11:c.C706A:p.L236M	17.53
MRV11	rs202119960	MRV11:NM_001206881:exon7:c.G334A:p.G112S	1.874
MRV11	rs74898367	MRV11:NM_001098579:exon8:c.A880G:p.T294A	2.901
MRV11	.	MRV11:NM_001098579:exon2:c.G283T:p.D95Y	16.62
MRV11	rs2162044	MRV11:NM_001098579:exon2:c.G208A:p.A70T	2.999
MRV11	.	MRV11:NM_001098579:exon1:c.G147T:p.E49D	16.23
MRV11	rs4909945	MRV11:NM_001098579:exon1:c.A31G:p.I11V	3.218
MRV11	rs10770136	MRV11:NM_001206880:exon1:c.A26G:p.E9G	11.23
MTCL1	.	MTCL1:NM_015210:exon6:c.G608T:p.R203L	15.83
MTCL1	rs35739383	MTCL1:NM_015210:exon6:c.T725C:p.M242T	10.08
MTCL1	rs199867297	MTCL1:NM_015210:exon6:c.C1172T:p.A391V	2.432
MTCL1	.	MTCL1:NM_015210:exon6:c.G1182T:p.K394N	7.023
MTCL1	.	MTCL1:NM_015210:exon6:c.G1249T:p.D417Y	10.19
MTCL1	.	MTCL1:NM_015210:exon6:c.G1291T:p.G431W	1.630
MTCL1	rs115077293	MTCL1:NM_015210:exon6:c.C1445T:p.A482V	1.869
MTCL1	rs1965665	MTCL1:NM_015210:exon6:c.A1502G:p.Q501R	0.001
MTCL1	rs143118025	MTCL1:NM_015210:exon6:c.T1607C:p.I536T	3.140
MTCL1	rs202096044	MTCL1:NM_015210:exon7:c.G1829A:p.R610H	11.45
MTCL1	.	MTCL1:NM_015210:exon10:c.G2326T:p.D776Y	15.35
MTCL1	rs200421486	MTCL1:NM_015210:exon10:c.G2399A:p.R800Q	14.84
MTCL1	.	MTCL1:NM_015210:exon12:c.G2791T:p.D931Y	19.92
MTCL1	.	MTCL1:NM_015210:exon13:c.G2903A:p.C968Y	14.85
MTCL1	.	MTCL1:NM_015210:exon13:c.C2926A:p.R976S	16.90
MTCL1	rs145205841	MTCL1:NM_015210:exon13:c.G3127A:p.E1043K	14.39
MTCL1	rs55676538	MTCL1:NM_015210:exon13:c.C3145T:p.R1049C	5.158
MTCL1	.	MTCL1:NM_015210:exon15:c.G3377A:p.G1126D	0.016
MTCL1	.	MTCL1:NM_015210:exon15:c.C3517T:p.H1173Y	13.32
MTCL1	rs115783507	MTCL1:NM_015210:exon15:c.C3763T:p.R1255C	2.166
MTCL1	rs114965084	MTCL1:NM_015210:exon15:c.G3901A:p.E1301K	5.101
MTCL1	.	MTCL1:NM_015210:exon15:c.G3915T:p.K1305N	16.77
MTCL1	.	MTCL1:NM_015210:exon15:c.G4012T:p.G1338C	9.505
MTCL1	.	MTCL1:NM_015210:exon15:c.G4399T:p.G1467C	15.45
MYO5B	.	MYO5B:NM_001080467:exon40:c.G5494T:p.D1832Y	27.4
MYO5B	.	MYO5B:NM_001080467:exon39:c.G5384T:p.R1795L	29.2
MYO5B	rs138128932	MYO5B:NM_001080467:exon37:c.T5108C:p.V1703A	14.46
MYO5B	rs112417235	MYO5B:NM_001080467:exon37:c.A5062G:p.M1688V	11.24
MYO5B	.	MYO5B:NM_001080467:exon37:c.T4957A:p.C1653S	10.33
MYO5B	.	MYO5B:NM_001080467:exon34:c.G4552T:p.D1518Y	23.3
MYO5B	rs201914259	MYO5B:NM_001080467:exon33:c.G4445A:p.R1482Q	17.50
MYO5B	rs531744417	MYO5B:NM_001080467:exon33:c.C4444T:p.R1482W	17.16
MYO5B	rs145598498	MYO5B:NM_001080467:exon31:c.C4145T:p.T1382M	13.28
MYO5B	.	MYO5B:NM_001080467:exon31:c.C4123G:p.Q1375E	14.67
MYO5B	rs2298624	MYO5B:NM_001080467:exon21:c.G2753A:p.R918H	21.3
MYO5B	.	MYO5B:NM_001080467:exon21:c.C2650T:p.R884W	14.80
MYO5B	.	MYO5B:NM_001080467:exon21:c.G2630A:p.R877H	24.3
MYO5B	.	MYO5B:NM_001080467:exon20:c.C2470A:p.R824S	21.6
MYO5B	rs370511121	MYO5B:NM_001080467:exon19:c.A2305G:p.I769V	13.33
MYO5B	.	MYO5B:NM_001080467:exon10:c.G1088T:p.R363L	12.46
MYO5B	rs189027956	MYO5B:NM_001080467:exon9:c.G1031A:p.R344H	27.0

Table III. Continued.

Gene	dbSNP	Amino acid change	CADD
MYO5B	rs17659179	MYO5B:NM_001080467:exon8:c.G921T:p.K307N	12.28
MYO5B	rs1815930	MYO5B:NM_001080467:exon4:c.A376G:p.T126A	9.724
MYO5B	rs141998504	MYO5B:NM_001080467:exon3:c.G145C:p.E49Q	11.82
NUP210	rs201198335	NUP210:NM_024923:exon40:c.C5573T:p.A1858V	12.24
NUP210	rs149611952	NUP210:NM_024923:exon37:c.G5369A:p.R1790H	9.432
NUP210	rs354478	NUP210:NM_024923:exon37:c.G5359A:p.V1787M	6.201
NUP210	rs354479	NUP210:NM_024923:exon37:c.T5255C:p.L1752S	5.083
NUP210	rs199752879	NUP210:NM_024923:exon34:c.G4741A:p.V1581M	11.56
NUP210	rs144770995	NUP210:NM_024923:exon26:c.C3517T:p.R1173C	10.53
NUP210	rs114096350	NUP210:NM_024923:exon25:c.G3406A:p.G1136S	8.982
NUP210	.	NUP210:NM_024923:exon25:c.G3351T:p.E1117D	12.96
NUP210	rs151008831	NUP210:NM_024923:exon23:c.G3154A:p.G1052S	17.83
NUP210	rs2271502	NUP210:NM_024923:exon21:c.T2891C:p.V964A	3.957
NUP210	rs200277108	NUP210:NM_024923:exon20:c.C2735T:p.A912V	0.014
NUP210	rs2280084	NUP210:NM_024923:exon17:c.G2357T:p.R786L	1.769
NUP210	rs6795271	NUP210:NM_024923:exon16:c.C2264T:p.A755V	2.929
NUP210	rs3732671	NUP210:NM_024923:exon14:c.A1822G:p.I608V	0.006
NUP210	rs7628051	NUP210:NM_024923:exon7:c.G889A:p.A297T	5.556
PCK1	.	PCK1:NM_002591:exon2:c.C219G:p.D73E	11.90
PCK1	rs707555	PCK1:NM_002591:exon4:c.G550C:p.V184L	3.147
PCK1	rs8192708	PCK1:NM_002591:exon6:c.A799G:p.I267V	15.76
PCK1	rs11552145	PCK1:NM_002591:exon6:c.G826A:p.E276K	1.662
PCK1	rs45603039	PCK1:NM_002591:exon6:c.G922A:p.V308I	21.4
PCK1	.	PCK1:NM_002591:exon6:c.G961T:p.G321C	18.36
PCK1	rs1804160	PCK1:NM_002591:exon7:c.G1102A:p.V368I	9.324
PIK3CG	.	PIK3CG:NM_001282426:exon2:c.C1075A:p.R359S	7.854
PIK3CG	rs144565710	PIK3CG:NM_001282426:exon2:c.G1076A:p.R359H	14.53
PIK3CG	.	PIK3CG:NM_001282426:exon2:c.G1132T:p.D378Y	14.29
PIK3CG	rs17847825	PIK3CG:NM_001282426:exon2:c.C1325A:p.S442Y	10.63
PIK3CG	rs61749915	PIK3CG:NM_001282426:exon2:c.A1565G:p.N522S	5.523
PIK3CG	rs28763991	PIK3CG:NM_001282426:exon7:c.A2569G:p.T857A	7.177
PIP5K1B	rs61752950	PIP5K1B:NM_001278253:exon3:c.C29A:p.A10E	16.08
PIP5K1B	rs55897616	PIP5K1B:NM_001278253:exon12:c.G1243A:p.A415	6.527
PRNP	.	PRNP:NM_000311:exon2:c.G379A:p.G127S	24.1
PRNP	rs1799990	PRNP:NM_000311:exon2:c.A385G:p.M129V	11.91
PRNP	.	PRNP:NM_000311:exon2:c.C689A:p.S230X	8.154
PSKH2	rs16876805	PSKH2:NM_033126:exon3:c.A1006G:p.I336V	9.823
PSKH2	rs6998760	PSKH2:NM_033126:exon2:c.G526T:p.A176S	0.004
PTAFR	.	PTAFR:NM_000952:exon2:c.G125T:p.R42L,PTAFR	14.45
PTGIR	rs200213497	PTGIR:NM_000960:exon2:c.T44C:p.V15A	4.849
PTPN11	.	PTPN11:NM_002834:exon11:c.G1341T:p.E447D	14.03
PTPRD	rs201751722	PTPRD:NM_001171025:exon13:c.G2189A:p.R730H,	27.2
PTPRD	rs35929428	PTPRD:NM_002839:exon28:c.C2983T:p.R995C	12.34
PTPRD	rs72694737	PTPRD:NM_002839:exon26:c.A2341G:p.T781A	6.679
PTPRD	rs10977171	PTPRD:NM_001171025:exon8:c.C1309G:p.Q437E,	5.702
PTPRD	.	PTPRD:NM_001040712:exon7:c.G677T:p.R226L	12.90
PTPRJ	.	PTPRJ:NM_001098503:exon4:c.G579T:p.E193D	14.26
PTPRJ	rs1503185	PTPRJ:NM_001098503:exon6:c.G977A:p.R326Q	3.170
PTPRJ	.	PTPRJ:NM_001098503:exon6:c.C991A:p.L331M	14.38
PTPRJ	rs373034804	PTPRJ:NM_001098503:exon7:c.C1211T:p.A404V	13.18
PTPRJ	rs61739179	PTPRJ:NM_001098503:exon7:c.G1253A:p.R418H	10.93
PTPRJ	rs4752904	PTPRJ:NM_002843:exon13:c.G2616C:p.E872D	4.648
RAF1	rs555034652	RAF1:NM_002880:exon9:c.G934A:p.V312M	12.39
RAPGEF2	rs61758817	RAPGEF2:NM_014247:exon22:c.C4097T:p.T1366M	13.15
RAPGEF2	.	RAPGEF2:NM_014247:exon23:c.G4307T:p.R1436L	19.70

Table III. Continued.

Gene	dbSNP	Amino acid change	CADD
RGS18	rs112220830	RGS18:NM_130782:exon4:c.G374T:p.S125I	0.354
RGS7	.	RGS7:NM_001282773:exon11:c.G721T:p.D241Y	27.9
SETBP1	rs663651	SETBP1:NM_001130110:exon4:c.G664A:p.A222T	1.344
SETBP1	.	SETBP1:NM_015559:exon4:c.A3085G:p.M1029V	8.463
SETBP1	.	SETBP1:NM_015559:exon4:c.G3199T:p.G1067C	14.18
SETBP1	rs149162154	SETBP1:NM_015559:exon4:c.A3299G:p.H1100R	13.56
SETBP1	rs3744825	SETBP1:NM_015559:exon4:c.G3301A:p.V1101I	4.173
SETBP1	rs1064204	SETBP1:NM_015559:exon4:c.C3388A:p.P1130T	5.865
SETBP1	rs77518617	SETBP1:NM_015559:exon5:c.G4129C:p.V1377L	9.150
SGCZ	rs145213189	SGCZ:NM_139167:exon6:c.C587T:p.P196L	18.67
SHH	.	SHH:NM_000193:exon3:c.G577A:p.A193T	19.82
SHH	.	SHH:NM_000193:exon1:c.G215T:p.R72L	18.17
ST3GAL3	rs147330005	ST3GAL3:NM_001270463:exon2:c.G128C:p.S43T	13.27
ST3GAL3	rs37458	ST3GAL3:NM_174971:exon4:c.A289G:p.T97A	2.667
ST3GAL4	.	ST3GAL4:NM_001254759:exon1:c.G28A:p.A10T	21.1
ST3GAL4	rs143689441	ST3GAL4:NM_001254759:exon9:c.G956A:p.R319Q,S	19.49
SVIL	.	SVIL:NM_003174:exon34:c.G5100T:p.E1700D	17.06
SVIL	.	SVIL:NM_003174:exon33:c.C4945A:p.R1649S	14.32
SVIL	rs17694739	SVIL:NM_003174:exon32:c.C4844T:p.A1615V	16.70
SVIL	.	SVIL:NM_003174:exon32:c.G4827T:p.Q1609H	18.61
SVIL	rs7921306	SVIL:NM_003174:exon32:c.A4735G:p.I1579V	13.01
SVIL	rs61737920	SVIL:NM_003174:exon27:c.G3976A:p.V1326I	4.518
SVIL	rs143178190	SVIL:NM_003174:exon27:c.C3860T:p.T1287	8.930
SVIL	rs200315824	SVIL:NM_003174:exon21:c.G3034A:p.V1012M	12.53
SVIL	rs148355552	SVIL:NM_003174:exon20:c.G2776A:p.V926I	19.54
SVIL	rs78773460	SVIL:NM_003174:exon18:c.T2498C:p.M833T	17.38
SVIL	.	SVIL:NM_003174:exon13:c.G1689T:p.K563N	13.51
SVIL	.	SVIL:NM_003174:exon11:c.G1011T:p.Q337H	19.01
SVIL	rs148030010	SVIL:NM_003174:exon9:c.C848T:p.T283M	0.592
SVIL	.	SVIL:NM_021738:exon8:c.C1630A:p.R544S	14.36
SVIL	rs147010426	SVIL:NM_021738:exon8:c.G1538A:p.S513N	11.12
SVIL	.	SVIL:NM_021738:exon6:c.G628C:p.E210Q	16.34
SVIL	rs10160013	SVIL:NM_021738:exon6:c.T566C:p.V189A	5.753
TAOK1	rs370461672	TAOK1:NM_020791:exon3:c.G146A:p.R49H,	15.99
TAOK1	.	TAOK1:NM_025142:exon16:c.G1848T:p.Q616H	23.6
TAOK1	.	TAOK1:NM_025142:exon18:c.C2315A:p.P772H	15.60
THSD4	rs117286812	THSD4:NM_001286429:exon1:c.G55A:p.A19T	13.26
THSD4	rs201048829	THSD4:NM_001286429:exon2:c.G169A:p.V57M	19.99
THSD4	.	THSD4:NM_001286429:exon3:c.G332T:p.R111L,	18.42
THSD4	rs200113852	THSD4:NM_001286429:exon6:c.G863C:p.S288T,	9.526
THSD4	rs148016609	THSD4:NM_001286429:exon10:c.G1628A:p.S543N	12.50
TRIM27	.	TRIM27:NM_006510:exon8:c.C1279A:p.L427I	23.1
TRIM27	.	TRIM27:NM_006510:exon8:c.G1058T:p.R353M	25.5
UGT1A1	.	UGT1A1:NM_000463:exon3:c.G1075T:p.D359Y	27.8
UGT1A1	rs143573365	UGT1A1:NM_000463:exon4:c.G1156A:p.V386I	29.8
UGT1A10	.	UGT1A10:NM_019075:exon1:c.C5A:p.A2D	15.18
UGT1A10	.	UGT1A10:NM_019075:exon1:c.G28A:p.V10I	3.391
UGT1A10	rs201460311	UGT1A10:NM_019075:exon1:c.G691A:p.A231T	14.70
UGT1A10	rs45574333	UGT1A10:NM_019075:exon1:c.C764T:p.T255M	7.102
VAMP8	.	VAMP8:NM_003761:exon3:c.C235A:p.L79I	17.87
VAV3	rs12403266	VAV3:NM_001079874:exon3:c.G174C:p.Q58H	0.031
VAV3	.	VAV3:NM_001079874:exon1:c.G3A:p.M1I	13.76
VAV3	rs7528153	VAV3:NM_006113:exon9:c.A892T:p.T298S	8.268
VAV3	.	VAV3:NM_006113:exon2:c.C307A:p.R103S	16.33
WBSCR17	rs145445110	WBSCR17:NM_022479:exon3:c.G526A:p.V176I	10.40

dbSNP, The Single Nucleotide Polymorphism database; CADD, Combined Annotation Dependent Depletion.

Table SIV. List of all rare nonsynonymous and potentially damaging variants analyzed in the study (irrespective of damaging CADD score).

Chr	Start	Ref	Alt	Gene	dbSNP	MAF contr	MAF stroke	DNA change	AACChange	CADD
chr5	178559254	A	G	ADAMTS2	rs141650732	0.17%	ND	c.T2267C	p.V756A	4.300
chr5	178564849	C	G	ADAMTS2	Novel	0.13%	ND	c.G1872C	p.E624D	17.15
chr5	178585789	T	C	ADAMTS2	Novel	0.12%	ND	c.A1067G	p.H356R	14.20
chr5	178634641	C	T	ADAMTS2	rs117222015	0.12%	ND	c.G764A	p.R255Q	9.462
chr5	178540897	G	A	ADAMTS2	rs144078893	ND	0.13%	c.C3607T	p.R1203W	13.64
chr5	178552048	C	T	ADAMTS2	Novel	ND	0.16%	c.G2884A	p.A962T	16.16
chr5	178552114	C	T	ADAMTS2	rs367796431	ND	0.11%	c.G2818A	p.V940M	18.13
chr19	40761140	T	C	AKT2	rs200272953	0.13%	ND	c.A26G	p.N9S	14.73
chr19	40739826	G	A	AKT2	rs142926499	ND	0.15%	c.C1213T	p.R405W	28.3
chr19	40741903	G	A	AKT2	Novel	ND	0.13%	c.C883T	p.R295C	14.17
chr12	100169398	G	A	ANKS1B	Novel	ND	0.12%	c.C889T	p.P297S	0.295
chr7	128502963	C	T	ATP6V1F	Novel	0.11%	ND	c.C5T	p.A2V	31
chr7	128505573	G	A	ATP6V1F	rs200874610	ND	0.10%	c.G301A	p.A101T	12.11
chr7	128505592	G	T	ATP6V1F	Novel	ND	0.23%	c.G320T	p.R107L	26.2
chr20	56093888	C	T	CTCF	rs146122711	0.17%	ND	c.G199A	p.V67I	8.611
chr20	56082800	A	C	CTCF	Novel	ND	0.18%	c.T1291G	p.S431A	1.824
chr20	56087796	C	T	CTCF	rs6092491	ND	0.12%	c.G557A	p.R186H	11.86
chr10	16932454	C	T	CUBN	rs150488625	0.12%	ND	c.G8671A	p.V2891I	0.899
chr10	16962073	T	C	CUBN	Novel	ND	0.13%	c.A6710G	p.H2237R	20.6
chr10	17126387	G	C	CUBN	Novel	ND	ND	c.C2184G	p.F728L	6.704
chr10	17142105	T	C	CUBN	Novel	0.12%	ND	c.A1664G	p.H555R	0.017
chr10	16918927	G	C	CUBN	Novel	ND	0.27%	c.C9075G	p.D3025E	13.46
chr10	16941000	C	T	CUBN	rs146847375	ND	0.14%	c.G8593A	p.V2865M	15.64
chr10	16942635	G	A	CUBN	rs141737312	ND	0.15%	c.C8399T	p.T2800I	15.52
chr10	16948390	G	C	CUBN	rs3740168	ND	0.19%	c.C7724G	p.P2575R	7.428
chr10	17157571	C	A	CUBN	Novel	ND	0.13%	c.G619T	p.G207X	35
chr5	15937048	G	A	FBXL7	Novel	0.10%	ND	c.G1088A	p.G363D	20.2
chr1	161187803	A	G	FCER1G	Novel	ND	0.11%	c.A77G	p.Y26C	21.8
chr9	4118287	C	G	GLIS3	rs138497710	0.16%	ND	c.G726C	p.Q242H	15.66
chr9	4118585	G	T	GLIS3	rs148572278	0.14%	ND	c.C428A	p.S143Y	22.1
chr22	23465451	G	A	GNAZ	rs545366122	ND	0.15%	c.G901A	p.A301T	36
chr6	154521021	C	T	IPCEF1	rs146319173	0.19%	ND	c.G691A	p.A231T	11.35
chr9	5126715	A	G	JAK2	rs142269166	0.16%	ND	c.A3323G	p.N1108S	9.816
chr9	5081828	G	C	JAK2	rs150221602	ND	0.13%	c.G2538C	p.E846D	14.82
chr10	64974548	A	G	JMJD1C	rs151186255	0.16%	ND	c.T833C	p.M278T	0.049
chr10	64975109	C	T	JMJD1C	rs370533547	ND	0.13%	c.G383A	p.R128H	15.06
chr11	2608850	G	T	KCNQ1	rs12720457	0.16%	ND	c.G1179T	p.K393N	6.560
chr11	2482943	G	T	KCNQ1	Novel	ND	0.15%	c.G4T	p.D2Y	5.53
chr11	2593283	G	T	KCNQ1	rs199472712	ND	0.19%	c.G724T	p.D242Y	19.35
chr11	2594150	G	T	KCNQ1	Novel	ND	0.15%	c.G855T	p.K285N	15.48
chr11	2790104	G	T	KCNQ1	Novel	ND	0.13%	c.G1545T	p.K515N	13.22
chr11	2797196	C	T	KCNQ1	rs199472793	ND	0.14%	c.C1597T	p.R533W	15.28
chr11	2797236	C	A	KCNQ1	Novel	ND	0.17%	c.C1637A	p.S546X	39
chr11	2869033	G	A	KCNQ1	rs147445322	ND	0.10%	c.G1831A	p.D611N	13.42
chr6	53516869	C	A	KLHL31	rs61745239	0.11%	ND	c.G1432T	p.A478S	19.72
chr6	53516779	C	T	KLHL31	rs3799261	ND	0.16%	c.G1522A	p.A508T	17.41
chr6	53519358	A	G	KLHL31	rs149644917	ND	0.35%	c.T713C	p.M238T	8.078
chr11	18487198	G	A	LDHAL6A	Novel	0.11%	ND	c.G259A	p.A87T	18.01
chr11	18487234	C	T	LDHAL6A	rs201761125	0.17%	ND	c.C295T	p.R99C	15.07
chr11	18497106	G	A	LDHAL6A	rs201642140	0.12%	ND	c.G512A	p.R171H	16.29
chr11	18497175	G	A	LDHAL6A	Novel	ND	0.20%	c.G581A	p.G194D	20.3
chr11	18497974	G	T	LDHAL6A	Novel	ND	0.12%	c.G636T	p.K212N	17.48
chr9	113704313	T	C	LPAR1	rs147151638	0.16%	ND	c.A181G	p.I61V	1.493
chr9	113703965	C	T	LPAR1	rs372111806	ND	0.15%	c.G529A	p.V177I	5.776
chr2	238632224	G	A	LRRFIP1	rs188452721	ND	0.13%	c.G379A	p.A127T	11.11
chr19	4095411	C	A	MAP2K2	rs564067943	ND	0.15%	c.G1021T	p.D341Y	20.4
chr19	4099336	G	A	MAP2K2	Novel	ND	0.10%	c.C782T	p.A261V	21.5

Table SIV. Continued.

Chr	Start	Ref	Alt	Gene	dbSNP	MAF contr	MAF stroke	DNA change	AACChange	CADD
chr19	4101040	C	T	MAP2K2	Novel	ND	0.11%	c.G682A	p.V228M	20.7
chr17	12044509	G	A	MAP2K4	Novel	0.12%	ND	c.G1132A	p.A378T	33
chr14	37737946	C	T	MIPOL1	Novel	ND	0.13%	c.C335T	p.T112I	18.19
chr14	37838818	C	T	MIPOL1	Novel	ND	0.21%	c.C925T	p.R309C	22.6
chr18	8784282	C	T	MTCL1	rs199867297	0.11%	ND	c.C1172T	p.A391V	2.432
chr18	8784717	T	C	MTCL1	rs143118025	0.19%	ND	c.T1607C	p.I536T	3.140
chr18	8798252	G	A	MTCL1	rs200421486	0.12%	ND	c.G2399A	p.R800Q	14.84
chr18	8819004	G	A	MTCL1	Novel	0.12%	ND	c.G2903A	p.C968Y	14.85
chr18	8720427	G	T	MTCL1	rs541450483	ND	0.13%	c.G290T	p.R97L	35
chr18	8824885	G	A	MTCL1	Novel	ND	0.18%	c.G3377A	p.G1126D	0.016
chr18	8825025	C	T	MTCL1	Novel	ND	0.12%	c.C3517T	p.H1173Y	13.32
chr18	8825901	C	T	MTCL1	rs61753867	ND	0.14%	c.C4393T	p.R1465W	16.18
chr18	47429125	G	A	MYO5B	Novel	0.14%	ND	c.C2650T	p.R884W	14.80
chr18	47429145	C	T	MYO5B	Novel	0.12%	ND	c.G2630A	p.R877H	24.3
chr18	47506839	C	T	MYO5B	rs189027956	0.12%	ND	c.G1031A	p.R344H	27.0
chr18	47361739	G	A	MYO5B	rs374025628	ND	0.13%	c.C5369T	p.T1790I	21.5
chr18	47373530	C	T	MYO5B	rs201914259	ND	0.13%	c.G4445A	p.R1482Q	17.50
chr18	47373531	G	A	MYO5B	rs531744417	ND	0.15%	c.C4444T	p.R1482W	17.16
chr18	47379827	C	A	MYO5B	Novel	ND	0.14%	c.G4213T	p.E1405X	37
chr18	47421366	G	A	MYO5B	Novel	ND	0.10%	c.C2990T	p.S997L	16.26
chr18	47432898	T	C	MYO5B	rs370511121	ND	0.20%	c.A2305G	p.I769V	13.33
chr3	13359272	G	A	NUP210	rs201198335	0.12%	ND	c.C5573T	p.A1858V	12.24
chr3	13361277	C	T	NUP210	rs149611952	0.18%	ND	c.G5369A	p.R1790H	9.432
chr3	13384748	A	G	NUP210	rs2271502	0.16%	ND	c.T2891C	p.V964A	3.957
chr3	13393479	G	A	NUP210	rs200277108	0.11%	ND	c.C2735T	p.A912V	0.014
chr3	13421182	T	C	NUP210	Novel	0.14%	ND	c.A857G	p.Q286R	23.0
chr20	56136686	C	G	PCK1	Novel	0.14%	ND	c.C219G	p.D73E	11.90
chr20	56138744	G	A	PCK1	rs45603039	0.23%	ND	c.G922A	p.V308I	21.4
chr7	106509078	G	T	PIK3CG	rs62001903	ND	0.13%	c.G1072T	p.D358Y	11.23
chr9	71437559	C	A	PIP5K1B	rs61752950	0.12%	ND	c.C29A	p.A10E	16.08
chr20	4680245	G	A	PRNP	Novel	0.10%	ND	c.G379A	p.G127S	24.1
chr1	28477408	C	A	PTAFR	Novel	0.11%	ND	c.G125T	p.R42L	14.45
chr1	28477192	T	C	PTAFR	rs138629813	ND	0.21%	c.A341G	p.N114S	20.8
chr12	112940006	C	T	PTPN11	rs148176616	0.13%	ND	c.C1658T	p.T553M	16.08
chr9	8633320	G	A	PTPRD	Novel	0.15%	ND	c.C349T	p.R117W	23.8
chr9	8633320	G	A	PTPRD	Novel	0.12%	ND	c.C349T	p.R117W	23.8
chr9	8471047	C	T	PTPRD	rs201751722	ND	0.16%	c.G2189A	p.R730H	27.2
chr11	48181494	G	T	PTPRJ	rs138938184	ND	0.15%	c.G3451T	p.E1151X	43
chr11	48188893	G	C	PTPRJ	Novel	ND	0.18%	c.G3993C	p.K1331N	13.46
chr3	12641707	C	T	RAF1	rs555034652	ND	0.14%	c.G934A	p.V312M	12.39
chr1	192150512	G	T	RGS18	rs112220830	ND	0.20%	c.G374T	p.S125I	0.354
chr18	42532390	A	G	SETBP1	Novel	0.12%	ND	c.A3085G	p.M1029V	8.463
chr18	42532604	A	G	SETBP1	rs149162154	ND	0.15%	c.A3299G	p.H1100R	13.56
chr8	13965705	G	A	SGCZ	rs145213189	0.12%	ND	c.C587T	p.P196L	18.67
chr7	155596406	C	T	SHH	Novel	ND	0.13%	c.G577A	p.A193T	19.82
chr7	155604602	C	A	SHH	Novel	ND	0.16%	c.G215T	p.R72L	18.17
chr1	44202061	G	C	ST3GAL3	rs147330005	ND	0.16%	c.G128C	p.S43T	13.27
chr11	126276382	G	A	ST3GAL4	Novel	0.12%	ND	c.G28A	p.A10T	21.1
chr11	126283899	G	A	ST3GAL4	rs143689441	0.10%	ND	c.G956A	p.R319Q	19.49
chr10	29839725	C	G	SVIL	Novel	0.15%	ND	c.G628C	p.E210Q	16.34
chr10	29752463	C	T	SVIL	rs146403956	ND	0.21%	c.G4957A	p.D1653N	21.5
chr10	29769705	G	A	SVIL	rs143178190	ND	0.31%	c.C3860T	p.T1287I	8.930
chr10	29770516	G	C	SVIL	Novel	ND	0.11%	c.C3819G	p.H1273Q	0.018
chr10	29818694	C	T	SVIL	Novel	ND	0.12%	c.G1004A	p.R335H	28.3
chr10	29821758	C	T	SVIL	rs147010426	ND	0.15%	c.G1538A	p.S513N	11.12
chr17	27794176	G	A	TAOK1	rs370461672	ND	0.11%	c.G146A	p.R49H	15.99
chr15	71839803	G	A	THSD4	rs117286812	0.14%	ND	c.G55A	p.A19T	13.26
chr15	71952965	G	A	THSD4	rs201048829	0.20%	ND	c.G169A	p.V57M	19.99

Table SIV. Continued.

Chr	Start	Ref	Alt	Gene	dbSNP	MAF contr	MAF stroke	DNA change	AAChange	CADD
chr15	72037481	G	C	THSD4	rs200113852	0.14%	ND	c.G863C	p.S288T	9.526
chr2	234676937	G	A	UGT1A1	rs143573365	ND	0.11%	c.G1156A	p.V386I	29.8
chr2	234545196	G	A	UGT1A1	Novel	0.13%	ND	c.G28A	p.V10I	3.391
chr2	234545173	C	A	UGT1A1	Novel	ND	0.12%	c.C5A	p.A2D	15.18
chr1	108231051	C	T	VAV3	Novel	0.10%	ND	c.G3A	p.M1I	13.76

Variants that appear in bold italics were selected for individual genotyping. Chr, chromosome; Ref, reference; Alt, alternative; dbSNP; The Single Nucleotide Polymorphism database; MAF, minor allele frequency; MAF contr, minor allele frequency in controls; AAChange, Amino acid change; CADD, Combined Annotation Dependent Depletion; ND, no difference.