

Supplemental table. SNPs genotyped in this study

CHR	Gene	SNP	BP location	Allele1	Allele2	All		Cases		Controls	
						N	MAF	N	MAF	N	MAF
10	IDE	rs1887922	94214145	C	T	454	0.18	160	0.18	294	0.17
10	IDE	rs4646957	94219892	T	C	453	0.45	160	0.44	293	0.47
10	IDE	rs2149632	94222227	C	T	454	0.22	160	0.23	294	0.23
10	IDE	rs3737225	94239962	A	G	453	0.03	159	0.02	294	0.03
10	IDE	rs11187025	94247956	T	C	454	0.18	160	0.16	294	0.18
10	IDE	rs7078413	94280464	C	A	454	0.28	160	0.29	294	0.28
10	IDE	rs11187060	94294112	T	C	454	0.33	160	0.34	294	0.34
10	IDE	rs11187062	94296406	C	T	454	0.08	160	0.06	294	0.08
10	IDE	rs11187064	94298233	C	T	454	0.18	160	0.18	294	0.18
10	IDE	rs2421943	94301795	A	G	445	0.31	156	0.32	289	0.32
10	IDE	rs7908111	94304784	A	G	454	0.18	160	0.18	294	0.17
10	IDE	rs1999763	94309972	A	G	454	0.11	160	0.11	294	0.11
10	IDE	rs12264682	94312407	A	C	454	0.04	160	0.05	294	0.04
10	IDE	rs7100623	94317136	T	C	454	0.18	160	0.18	294	0.17
10	KIF11	rs6583826	94337810	G	A	454	0.50	160	0.49	294	0.49
10	KIF11	rs12256435	94343258	T	G	454	0.10	160	0.12	294	0.09
10	KIF11	rs3824735	94344184	C	A	454	0.24	160	0.24	294	0.26
10	KIF11	rs11187094	94358158	A	G	454	0.14	160	0.17	294	0.14
10	KIF11	rs10882088	94358568	C	T	454	0.11	160	0.11	294	0.12
10	KIF11	rs2275220	94362686	C	T	454	0.03	160	0.02	294	0.03
10	KIF11	rs10882091	94364357	C	T	454	0.31	160	0.31	294	0.30
10	KIF11	rs7914814	94372930	T	C	454	0.31	160	0.31	294	0.30
10	KIF11	rs11818705	94382708	T	C	454	0.18	160	0.17	294	0.19
10	KIF11	rs7070990	94384580	T	C	434	0.33	151	0.33	283	0.32
10	KIF11	rs6583830	94388098	A	G	454	0.31	160	0.31	294	0.30
10	KIF11	rs7917359	94394804	T	C	452	0.18	160	0.17	292	0.18
10	KIF11	rs7078243	94404243	A	C	452	0.41	159	0.42	293	0.41

10	HHEX	rs2275729	94442410	C	A	454	0.12	160	0.15	294	0.12
10	HHEX	rs7100035	94451033	T	C	454	0.06	160	0.05	294	0.06
10	HHEX	rs1111875	94452862	A	G	454	0.30	160	0.28	294	0.32
10	HHEX	rs12778642	94454287	T	G	454	0.39	160	0.37	294	0.41
10	HHEX	rs5015480	94455539	T	C	454	0.39	160	0.38	294	0.39

Supplemental Table 2. Single marker associations for all 32 SNPs in the *IDE-KIF11-HHEX* complex and plasma A β 40 and A β 42 levels

Gene	SNP	BP	Minor allele	A β 40									A β 42								
				ALL (n=454)			Cases (n=160)			Controls (n=294)			ALL (n=454)			Cases (n=160)			Controls (n=294)		
				BETA	SE	P	BETA	SE	P	BETA	SE	P	BETA	SE	P	BETA	SE	P	BETA	SE	P
IDE	rs1887922	94214145	C	-4.3	4.8	0.37	-4.5	7.8	0.57	-4.1	6.2	0.5	1.9	2.2	0.38	1.4	3.5	0.69	2.1	2.8	0.45
IDE	rs4646957	94219892	T	-2.9	3.6	0.43	-5.7	6.2	0.36	-1.3	4.5	0.77	-1.4	1.6	0.37	-3.1	2.8	0.27	-0.7	2	0.72
IDE	rs2149632	94222227	C	4.1	4.2	0.33	6.7	7.4	0.36	2.7	5.1	0.59	2.1	1.9	0.28	5.8	3.3	0.08	0.5	2.3	0.82
IDE	rs3737225	94239962	A	18.5	10.9	0.09	11.8	24.9	0.64	20.9	12.2	0.09	9.6	5	0.06	18.4	12.4	0.14	7.8	5.5	0.16
IDE	rs11187025	94247956	T	-3.2	4.9	0.52	-4.1	8.4	0.62	-3.3	6.1	0.59	-1.3	2.2	0.55	-1.3	3.7	0.73	-1.4	2.8	0.61
IDE	rs7078413	94280464	C	-0.3	4.1	0.94	-4.5	6.8	0.51	1.8	5.2	0.72	-1.3	1.9	0.48	-4.7	3	0.12	0.5	2.4	0.83
IDE	rs11187060	94294112	T	-4.5	3.9	0.25	-8.1	6.3	0.2	-2.4	5	0.63	-2.3	1.8	0.2	-5.6	2.9	0.05	-0.5	2.3	0.85
IDE	rs11187062	94296406	C	-5.4	7	0.44	-12.2	13	0.35	-2	8.4	0.81	-2.4	3.2	0.45	3.5	5.8	0.55	-4.8	3.8	0.2
IDE	rs11187064	94298233	C	0.3	4.9	0.94	-4.1	8	0.61	2.3	6.2	0.71	0	2.2	0.99	-0.9	3.6	0.8	0.4	2.8	0.88
IDE	rs2421943	94301795	A	9.4	3.8	0.01	12.3	6.5	0.05	6.8	4.6	0.14	1.3	1.7	0.44	3.9	2.9	0.1	0.2	2.1	0.93
IDE	rs7908111	94304784	A	-4	4.7	0.4	-5.1	7.5	0.5	-3.1	6.2	0.62	1.8	2.1	0.41	0.7	3.4	0.83	2.5	2.8	0.37
IDE	rs1999763	94309972	A	-1.1	5.8	0.85	-3.1	9.7	0.75	0.4	7.3	0.95	-2.6	2.6	0.33	-8.3	4.3	0.06	0.4	3.3	0.91
IDE	rs12264682	94312407	A	-21.8	9.1	0.02	-21.9	14.9	0.15	-22.7	11.7	0.05	-7.1	4.2	0.09	-11.5	6.8	0.09	-4.6	5.3	0.3
IDE	rs7100623	94317136	T	-4	4.7	0.4	-5.1	7.5	0.5	-3.1	6.2	0.62	1.8	2.1	0.41	0.7	3.4	0.83	2.5	2.8	0.37

KIFF11	rs6583826	94337810	G	-6.2	3.5	0.08	5.6	5.6	0.32	-6.7	4.5	0.14	0.4	1.6	0.82	0.5	2.6	0.86	0.8	2.1	0.69
KIFF11	rs12256435	94343258	T	5.3	6.1	0.39	3.3	10	0.74	5.9	7.9	0.46	-0.7	2.8	0.81	-3	4.5	0.51	0.5	3.6	0.89
KIFF11	rs3824735	94344184	C	2.6	4.1	0.53	3.5	7.2	0.63	1.9	5	0.7	1.5	1.8	0.43	5.4	3.2	0.1	-0.1	2.3	0.96
KIFF11	rs11187094	94358158	A	5.9	5	0.24	9.7	8.2	0.24	3.6	6.3	0.57	1.5	2.3	0.51	6.8	3.7	0.07	-1.4	2.9	0.64
KIFF11	rs10882088	94358568	C	-2.9	5.7	0.61	-1.2	9.7	0.9	-3.4	7.1	0.63	-3.7	2.6	0.15	-8.2	4.3	0.06	-1.5	3.2	0.64
KIFF11	rs2275220	94362686	C	14.7	10.7	0.17	-4.6	22.8	0.84	20.9	12.2	0.09	8.3	4.9	0.09	9.5	11.1	0.39	7.8	5.5	0.16
KIFF11	rs10882091	94364357	C	-1.7	3.9	0.66	-1.6	6.4	0.8	-1.9	5	0.7	1.1	1.8	0.53	0.7	2.9	0.81	1.3	2.3	0.57
KIFF11	rs7914814	94372930	T	-1.7	3.9	0.66	-1.6	6.4	0.8	-1.9	5	0.7	1.1	1.8	0.53	0.7	2.9	0.81	1.3	2.3	0.57
KIFF11	rs11818705	94382708	T	-4	4.6	0.39	-3.6	8.1	0.66	-3.9	5.7	0.49	-1	2.1	0.64	0.5	3.6	0.88	-1.6	2.6	0.54
KIFF11	rs7070990	94384580	T	1.1	3.9	0.78	-2	7.1	0.77	2.6	4.8	0.59	-0.2	1.7	0.89	-0.8	2.9	0.8	0	2.2	0.99
KIFF11	rs6583830	94388098	A	-1.6	3.9	0.68	-1.3	6.4	0.84	-1.9	5	0.7	1	1.8	0.57	0.4	2.8	0.89	1.3	2.3	0.57
KIFF11	rs7917359	94394804	T	-2.8	4.5	0.54	-1.4	7.6	0.85	-3.2	5.7	0.57	-0.9	2	0.65	-0.2	3.4	0.96	-1.2	2.6	0.64
KIFF11	rs7078243	94404243	A	-1.7	3.7	0.65	-1.9	6.3	0.76	-1.5	4.6	0.74	-0.2	1.6	0.92	-2.6	2.8	0.36	0.9	2.1	0.65
HHEX	rs2275729	94442410	C	2.9	5.6	0.61	4.5	9.3	0.63	1.5	7.1	0.84	-0.5	2.5	0.84	-0.3	4.2	0.94	-0.9	3.2	0.78
HHEX	rs7100035	94451033	T	0.1	8.3	0.99	4.2	14.5	0.77	-1.4	10.2	0.89	2.9	3.7	0.44	3	6.5	0.65	3	4.5	0.51
HHEX	rs1111875	94452862	A	3.2	3.9	0.41	2.3	7.2	0.75	3.5	4.8	0.46	2.3	1.8	0.19	5.3	3.3	0.11	1.2	2.1	0.57
HHEX	rs12778642	94454287	T	2.8	3.8	0.46	5	6.4	0.43	1.6	4.7	0.73	3	1.7	0.08	6	2.9	0.04	1.6	2.1	0.46
HHEX	rs5015480	94455539	T	2.7	3.7	0.46	2.7	6	0.66	2.9	4.7	0.53	1.9	1.7	0.27	2.5	2.8	0.36	1.6	2.1	0.45

Beta = regression coefficient; SE=standard error; p=nominal p-value