

Table S1: Single marker test results of the APOE region

Chr	Position	rsname	MAF	F	N	β	P	P ^a
19	44,306,482	rs11879355	0.393	-	56	-0.085	6.28E-03	2.21E-01
19	44,302,624	rs349053	0.5	0.488	56	-0.066	8.77E-03	4.33E-01
19	44,303,066	rs11547806	0.438	0.415	56	-0.068	1.06E-02	2.64E-01
19	45,998,247	rs10401270	0.107	0.103	56	0.104	1.66E-02	6.51E-02
19	46,094,597	rs3745820	0.277	0.266	56	0.069	1.76E-02	3.98E-02
19	45,818,835	rs1133190	0.491	0.37	56	0.06	1.93E-02	8.88E-02
19	45,572,263	-	0.143	-	56	-0.09	2.95E-02	2.28E-01
19	44,660,967	rs12609635	0.357	0.368	56	0.064	4.06E-02	2.10E-01
19	45,322,744	rs1135062	0.259	0.301	56	-0.061	4.68E-02	2.63E-01
19	45,202,652	rs3948201	0.089	0.032	56	-0.104	4.76E-02	6.23E-01

MAF= Minor Allele Frequency in the sample; F= Minor allele frequency in the ESP project data of European-American sample; N= Sample size (#Subjects without missing genotypes); β = Effect size not adjusted for APOE; P= P-value not adjusted for APOE; P^a= P-value adjusted for APOE.

Table S2: Single marker test results of SNPs in genes discussed in Naj et al, 2014.

Chr	snpname	Pos (Bp)	MAF	β	P*	P [§]	rsname
<i>CR1</i>							
1	1:207679307	207,679,307	0.205	0.004	9.0E-01	-	
1	1:207753621	207,753,621	0.232	0.071	3.4E-02	-	rs2274567
1	1:207760772	207,760,772	0.054	-0.020	7.4E-01	-	
1	1:207760773	207,760,773	0.313	-0.036	2.7E-01	-	
1	1:207782707	207,782,707	0.152	0.045	2.9E-01	-	
1	1:207782931	207,782,931	0.241	0.047	1.6E-01	-	
1	1:207790088	207,790,088	0.232	0.071	3.4E-02	-	rs3811381
1	1:207795320	207,795,320	0.223	0.000	1.0E+00	-	
<i>BIN1</i>							
2	2:127811042	127,811,042	0.179	-0.006	8.6E-01	-	
2	2:127816632	127,816,632	0.25	-0.023	4.2E-01	-	
2	2:127816695	127,816,695	0.054	-0.012	8.5E-01	-	
2	2:127819777	127,819,777	0.179	-0.006	8.6E-01	-	
2	2:127821207	127,821,207	0.054	-0.012	8.5E-01	-	
2	2:127826533	127,826,533	0.304	-0.012	6.6E-01	-	
<i>CD2AP</i>							
-	-	-	-	-	-	-	
<i>EPHA1</i>							
7	7:143088823	143,088,823	0.107	-0.007	8.7E-01	-	
7	7:143088867	143,088,867	0.107	-0.007	8.7E-01	-	
7	7:143092269	143,092,269	0.063	0.030	6.4E-01	-	
7	7:143093538	143,093,538	0.196	-0.004	9.2E-01	-	
7	7:143097100	143,097,100	0.107	0.023	6.0E-01	-	
7	7:143105830	143,105,830	0.353	0.018	6.6E-01	-	
<i>CLU</i>							
8	8:27462481	27,462,481	0.321	-0.048	7.8E-02	-	
<i>MS4A4A</i>							
11	11:60059810	60,059,810	0.107	0.064	1.4E-01	-	
11	11:60070176	60,070,176	0.33	0.007	8.4E-01	-	
<i>PICALM</i>							
11	11:85692181	85,692,181	0.411	0.020	5.3E-01	-	
11	11:85718641	85,718,641	0.143	0.043	2.4E-01	-	
11	11:85725937	85,725,937	0.161	0.044	2.4E-01	-	
<i>ABCA7</i>							
19	19:1042809	1,042,809	0.42	0.060	1.8E-02	-	rs3764645
19	19:1047002	1,047,002	0.446	-0.058	2.3E-02	-	rs3752234
19	19:1047161	1,047,161	0.357	-0.037	1.8E-01	-	
19	19:1047537	1,047,537	0.054	0.016	7.9E-01	-	
19	19:1049269	1,049,269	0.188	-0.059	1.3E-01	-	
19	19:1049305	1,049,305	0.161	0.059	1.3E-01	-	

19	19:1051214	1,051,214	0.321	0.044	1.1E-01	-
19	19:1052005	1,052,005	0.455	-0.024	3.7E-01	-
19	19:1053524	1,053,524	0.125	0.010	8.0E-01	-
19	19:1054060	1,054,060	0.446	-0.024	3.7E-01	-
19	19:1055191	1,055,191	0.446	-0.024	3.7E-01	-
19	19:1056065	1,056,065	0.446	-0.024	3.7E-01	-
19	19:1056492	1,056,492	0.188	-0.013	6.9E-01	6.4E-02
19	19:1059004	1,059,004	0.446	-0.024	3.7E-01	-
19	19:1064193	1,064,193	0.241	-0.015	6.2E-01	-
19	19:1065018	1,065,018	0.241	-0.008	7.9E-01	-
19	19:1065044	1,065,044	0.318	0.026	3.3E-01	-
<i>CD33</i>						
19	19:51728477	51,728,477	0.268	-0.039	2.0E-01	-
19	19:51728641	51,728,641	0.491	0.022	4.3E-01	-
19	19:51738917	51,738,917	0.17	-0.045	2.2E-01	-

MAF= Minor Allele Frequency in the sample; β = effect size not adjusted for *APOE*; P[§]= P-value from Naj et al, 2014; P* = P-value of the single marker test not adjusted for *APOE*. SNPs with P* < 0.05 are marked in bold.

Table S3: Burden test results for genes discussed in Naj et al, 2014.

Chr	Gene	Start	End	P ^b	V0.05	V0.5
1	<i>CR1</i>	207,669,492	207,813,992	nt	1	7
2	<i>BIN1</i>	127,805,603	127,864,931	0.239	2	2
6	<i>CD2AP</i>	47,445,525	47,594,999	nt	0	3
7	<i>EPHA1</i>	143,087,382	143,105,985	0.405	2	5
8	<i>CLU</i>	27,454,434	27,472,548	nt	0	1
11	<i>MS4A4A</i>	60,048,014	60,076,445	nt	0	2
11	<i>PICALM</i>	85,668,727	85,780,924	nt	0	1
19	<i>ABCA7</i>	1,040,102	1,065,571	0.91	10	15
19	<i>CD33</i>	51,728,320	51,743,274	nt	0	3

P^b= P-value of burden test not adjusted for *APOE*; V0.05= Number of SNPs with MAF<0.05; V0.5= Number of all SNPs in a tested gene; nt=Not tested





