

**Meta-analysis of genome-wide association studies identifies three novel loci
for saturated fatty acids in East Asians**

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Supplemental Table 1 Genotyping of study populations

	NHAPC	MESA
Genotyping platform	Illumina 660W	Affymetrix Genome-Wide Human SNP Array 6.0
Individual call rate	≥97%	>95%
SNP call rate	>95%	>95%
HWE (<i>P</i> value)	≥1E-06	≥1E-06
Software for imputation	IMPUTE v2.2.2	IMPUTE version 2.1.0
HapMap reference	Phase II - CHB+JPT (release #22)	Phase I and II - CEU+YRI+CHB+JPT (release #22)
SNPs for imputation	473,679	778,602
NCBI Build	36	36
Minor allele frequency	≥0.05	≥0.05
Imputation quality	Info>0.5	Oevar > 0.8

NHAPC Nutrition and Health of Aging Population in China study, *MESA* Multi-Ethnic Study of Atherosclerosis study, *SNP* Single nucleotide polymorphism, *HWE* Hardy-Weinberg equilibrium, *Oevar* observed divided by expected variance

Supplemental Table 2 Comprehensive results for 14:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	P
rs7639264	3	169427864	<i>GOLIM4</i>	0.0308	C	-0.0645 (0.0108)	2.72E-09
rs11589386	1	163270086	<i>LMX1A</i>	0.0521	T	-0.0337 (0.0058)	5.08E-09
rs11588114	1	163272569	<i>LMX1A</i>	0.0521	A	-0.0338 (0.0058)	6.34E-09
rs7515422	1	163277493	<i>LMX1A</i>	0.0524	C	-0.0343 (0.0060)	8.42E-09
rs7542261	1	163266474	<i>LMX1A</i>	0.0522	T	-0.0336 (0.0058)	9.17E-09
rs9603955	13	112511818	<i>ATP11A</i>	0.0398	A	-0.0682 (0.0119)	9.61E-09
rs10076748	5	149569059	<i>SLC6A7</i>	0.0388	A	-0.0755 (0.0132)	1.09E-08
rs9603957	13	112522349	<i>ATP11A</i>	0.0342	T	-0.0591 (0.0105)	1.60E-08
rs13378238	13	112510409	<i>ATP11A</i>	0.0334	T	-0.0662 (0.0117)	1.71E-08
rs11042834	11	10458998	<i>AMPD3</i>	0.0861	G	-0.0311 (0.0057)	4.33E-08
rs4235304	4	22900584	<i>GBA3</i>	0.0311	A	-0.0726 (0.0133)	4.66E-08
rs466727	20	15574740	<i>MACROD2</i>	0.0357	G	-0.0427 (0.0081)	1.37E-07
rs6871230	5	126595483	<i>MEGF10</i>	0.2669	T	-0.0185 (0.0035)	1.46E-07
rs6595752	5	126593983	<i>MEGF10</i>	0.2623	T	-0.0185 (0.0035)	1.58E-07
rs13092703	3	169474028	<i>GOLIM4</i>	0.0314	T	-0.0376 (0.0072)	1.64E-07
rs3914953	3	169423483	<i>GOLIM4</i>	0.0301	A	-0.0388 (0.0074)	1.65E-07
rs10065046	5	126596938	<i>MEGF10</i>	0.2604	T	-0.0181 (0.0035)	1.77E-07
rs10078274	5	126596828	<i>MEGF10</i>	0.2607	G	-0.0181 (0.0035)	1.77E-07
rs9832467	3	169425171	<i>GOLIM4</i>	0.0304	C	-0.0382 (0.0073)	1.81E-07
rs3897034	3	169422270	<i>GOLIM4</i>	0.0300	A	-0.0388 (0.0074)	1.82E-07
rs9836749	3	169425614	<i>GOLIM4</i>	0.0304	A	-0.0382 (0.0073)	1.82E-07
rs169061	8	24851764	<i>DOCK5</i>	0.0528	A	-0.052 (0.010)	1.89E-07
rs9874286	3	169425673	<i>GOLIM4</i>	0.0318	C	-0.0362 (0.007)	1.90E-07
rs7625587	3	169427940	<i>GOLIM4</i>	0.0305	T	-0.038 (0.0073)	1.92E-07
rs9836029	3	169431060	<i>GOLIM4</i>	0.0307	A	-0.0375 (0.0072)	2.21E-07
rs9832017	3	169424911	<i>GOLIM4</i>	0.0314	C	-0.0361 (0.007)	2.34E-07
rs9830833	3	169430326	<i>GOLIM4</i>	0.0312	T	-0.0365 (0.0071)	2.45E-07
rs9851007	3	169430392	<i>GOLIM4</i>	0.0312	G	-0.0365 (0.0071)	2.50E-07
rs9855657	3	169430938	<i>GOLIM4</i>	0.0313	G	-0.0364 (0.0071)	2.58E-07
rs10049151	3	169426277	<i>GOLIM4</i>	0.0313	T	-0.0363 (0.0070)	2.59E-07
rs7624807	3	169420582	<i>GOLIM4</i>	0.0315	T	-0.036 (0.0070)	2.68E-07
rs2347331	10	83727441	<i>NRG3</i>	0.206	C	-0.0474 (0.0092)	2.70E-07
rs2067678	3	169423008	<i>GOLIM4</i>	0.0312	G	-0.0366 (0.0071)	2.70E-07
rs3844173	3	169428813	<i>GOLIM4</i>	0.0312	G	-0.0366 (0.0071)	2.70E-07
rs9971329	10	83725508	<i>NRG3</i>	0.2059	G	-0.0474 (0.0092)	2.73E-07
rs6584425	10	83721752	<i>NRG3</i>	0.2059	G	-0.0474 (0.0092)	2.75E-07
rs1317281	10	28371763	<i>MPP7</i>	0.0353	G	-0.0578 (0.0112)	2.77E-07
rs11761021	7	134504428	<i>C7orf49</i>	0.0331	A	-0.0505 (0.0098)	2.85E-07
rs17126072	14	52577434	<i>DDHD1</i>	0.0661	A	-0.0511 (0.010)	3.09E-07
rs3914954	3	169420213	<i>GOLIM4</i>	0.0308	G	-0.037 (0.0072)	3.10E-07
rs10516222	4	10770343	<i>MIST</i>	0.0327	G	-0.0584 (0.0114)	3.29E-07

rs10478764	5	126620000	<i>MEGF10</i>	0.2677	C	-0.0183 (0.0036)	3.39E-07
rs16852068	3	16943551	<i>GOLIM4</i>	0.0313	T	-0.0361 (0.0071)	3.47E-07
rs2092862	10	83705418	<i>NRG3</i>	0.2049	C	-0.0467 (0.0092)	3.47E-07
rs3844110	15	88315951	<i>ZNF710</i>	0.0369	C	-0.0538 (0.0106)	3.48E-07
rs6880089	5	126637764	<i>MEGF10</i>	0.2678	G	-0.0183 (0.0036)	3.49E-07
rs3913892	3	169432275	<i>GOLIM4</i>	0.0329	A	-0.0346 (0.0068)	3.68E-07
rs7732964	5	126618702	<i>MEGF10</i>	0.2672	C	-0.0182 (0.0036)	3.85E-07
rs4073059	8	41128525	<i>SFRP1</i>	0.032	A	-0.0621 (0.0122)	3.92E-07
rs12320586	12	97844639	<i>ANKS1B</i>	0.0491	T	-0.0742 (0.0147)	4.18E-07
rs4613983	8	41132087	<i>SFRP1</i>	0.0318	T	-0.0624 (0.0123)	4.23E-07
rs1816298	3	139115751	<i>CLDN18</i>	0.0301	T	-0.0544 (0.0108)	4.23E-07
rs16852164	3	169499673	<i>GOLIM4</i>	0.0310	G	-0.0356 (0.0071)	4.67E-07
rs10493329	1	63030582	<i>ATG4C</i>	0.0345	G	-0.0542 (0.0108)	4.93E-07
rs2249120	10	28366781	<i>MPP7</i>	0.0331	A	-0.0346 (0.007)	6.97E-07
rs11989518	8	77730209	<i>ZFHX4</i>	0.0452	G	-0.0309 (0.0062)	7.44E-07
rs4242231	5	91830504	<i>NR2F1</i>	0.0333	T	-0.0334 (0.0067)	7.46E-07
rs11717191	3	169511722	<i>GOLIM4</i>	0.0324	C	-0.0342 (0.0069)	7.64E-07
rs11109674	12	97842888	<i>ANKS1B</i>	0.0529	T	-0.0737 (0.0150)	8.26E-07
rs1155655	7	126353264	<i>GRM8</i>	0.0357	T	-0.0614 (0.0125)	8.76E-07
rs7720606	5	126579631	<i>MEGF10</i>	0.2406	G	-0.0185 (0.0038)	8.96E-07
rs10478767	5	126651535	<i>MEGF10</i>	0.3013	T	-0.0175 (0.0036)	9.03E-07
rs2144896	20	16330118	<i>KIF16B</i>	0.0341	A	-0.0577 (0.0118)	9.58E-07
rs12340798	9	8293555	<i>PTPRD</i>	0.0418	A	-0.0557 (0.0114)	1.03E-06
rs7959428	12	97846990	<i>ANKS1B</i>	0.058	A	-0.0732 (0.0150)	1.04E-06
rs3734147	5	126602292	<i>MEGF10</i>	0.2684	G	-0.0172 (0.0035)	1.10E-06
rs2972715	5	121294884	<i>SRFBP1</i>	0.0425	G	-0.053 (0.0109)	1.10E-06
rs10075058	5	126607106	<i>MEGF10</i>	0.2702	A	-0.0172 (0.0035)	1.13E-06
rs6595754	5	126606437	<i>MEGF10</i>	0.2696	T	-0.0172 (0.0035)	1.13E-06
rs13152779	4	10751896	<i>MIST</i>	0.0354	G	-0.0634 (0.013)	1.14E-06
rs406281	11	8220759	<i>LMO1</i>	0.04	T	-0.0505 (0.0104)	1.15E-06
rs10842362	12	24547642	<i>SOX5</i>	0.0317	C	-0.0523 (0.0108)	1.18E-06
rs10946770	6	25511411	<i>LRRC16A</i>	0.0453	G	-0.0397 (0.0082)	1.22E-06
rs1450558	12	43509646	<i>NELL2</i>	0.0442	A	-0.0511 (0.0105)	1.24E-06
rs331447	11	36407056	<i>FLJ14213</i>	0.0416	G	-0.0316 (0.0065)	1.28E-06
rs12513837	5	126601282	<i>MEGF10</i>	0.2683	G	-0.0169 (0.0035)	1.28E-06
rs3991951	1	222283380	<i>FBXO28</i>	0.0437	G	-0.0559 (0.0116)	1.33E-06
rs7283436	21	14432869	<i>LIPI</i>	0.0358	A	-0.0672 (0.0139)	1.34E-06
rs11948670	5	29690611	<i>PGBD3P2</i>	0.0415	T	-0.0302 (0.0063)	1.35E-06
rs1363387	5	126653943	<i>MEGF10</i>	0.3012	C	-0.0172 (0.0036)	1.36E-06
rs7085310	10	114531019	<i>VTI1A</i>	0.0323	A	-0.0276 (0.0057)	1.37E-06
rs581035	11	36401889	<i>FLJ14213</i>	0.0416	C	-0.0318 (0.0066)	1.38E-06
rs890261	11	36402694	<i>FLJ14213</i>	0.0425	T	-0.0315 (0.0065)	1.43E-06
rs2032834	5	126654544	<i>MEGF10</i>	0.3013	A	-0.0171 (0.0036)	1.44E-06
rs1920219	3	125094800	<i>CCDC14</i>	0.0391	C	-0.0548 (0.0114)	1.59E-06

rs4836316	5	126655774	<i>MEGF10</i>	0.3016	G	-0.017 (0.0035)	1.60E-06
rs10490463	2	53707325	<i>ASB3</i>	0.0955	C	-0.0271 (0.0056)	1.61E-06
rs404133	11	8225627	<i>LMO1</i>	0.0359	A	-0.0536 (0.0112)	1.62E-06
rs4331917	5	29696145	<i>PGBD3P2</i>	0.0386	G	-0.0293 (0.0061)	1.65E-06
rs2877101	5	29671585	<i>PGBD3P2</i>	0.0389	C	-0.0298 (0.0062)	1.68E-06
rs2422067	10	94555764	<i>CCDC14</i>	0.0444	T	-0.0323 (0.0068)	1.72E-06
rs7711891	5	29673250	<i>PGBD3P2</i>	0.0391	C	-0.0297 (0.0062)	1.73E-06
rs153087	16	13126755	<i>LOC729993</i>	0.0375	C	-0.0327 (0.0068)	1.77E-06
rs11950082	5	29669558	<i>PGBD3P2</i>	0.0391	G	-0.0297 (0.0062)	1.78E-06
rs1560845	8	77739494	<i>ZFHX4</i>	0.0452	G	-0.0299 (0.0063)	1.90E-06
rs1824111	5	29676572	<i>PGBD3P2</i>	0.0384	T	-0.0294 (0.0062)	1.93E-06
rs1115806	9	8294891	<i>PTPRD</i>	0.0405	C	-0.0548 (0.0115)	2.06E-06
rs6980742	8	77700214	<i>ZFHX4</i>	0.0451	A	-0.0314 (0.0066)	2.07E-06
rs4836317	5	126656670	<i>MEGF10</i>	0.3002	T	-0.0168 (0.0035)	2.13E-06
rs1012190	21	19219264	<i>TMPRSS15</i>	0.0396	T	-0.031 (0.0065)	2.16E-06
rs11808061	1	238267764	<i>FMN2</i>	0.0859	C	-0.0481 (0.0102)	2.21E-06
rs6129939	20	39848459	<i>CHD6</i>	0.2614	A	0.0187 (0.0040)	2.26E-06
rs16899249	5	29690997	<i>PGBD3P2</i>	0.0394	C	-0.0286 (0.0060)	2.29E-06
rs7706468	5	29672231	<i>PGBD3P2</i>	0.0416	C	-0.0294 (0.0062)	2.33E-06
rs1570967	21	19217931	<i>TMPRSS15</i>	0.0399	A	-0.0277 (0.0059)	2.37E-06
rs3741506	12	54438106	<i>CIP29</i>	0.0332	G	-0.0529 (0.0112)	2.51E-06
rs6124384	20	39890579	<i>CHD6</i>	0.2407	G	0.0193 (0.0041)	2.54E-06
rs1982942	15	84630057	<i>AGBL1</i>	0.0703	G	-0.048 (0.0102)	2.56E-06
rs4836318	5	126657011	<i>MEGF10</i>	0.2998	T	-0.0167 (0.0035)	2.64E-06
rs11702387	21	14424783	<i>LIP1</i>	0.0358	A	-0.0666 (0.0142)	2.64E-06
rs491921	7	103165151	<i>RELN</i>	0.0457	C	-0.0499 (0.0107)	2.79E-06
rs1912031	4	22938137	<i>GBA3</i>	0.0319	A	-0.0526 (0.0112)	2.80E-06
rs6809602	3	62040414	<i>PTPRG</i>	0.0633	A	-0.0508 (0.0109)	2.89E-06
rs16939325	8	77698209	<i>ZFHX4</i>	0.0452	A	-0.031 (0.0066)	3.00E-06
rs2408863	5	126584063	<i>MEGF10</i>	0.2631	C	-0.0171 (0.0037)	3.01E-06
rs1426093	5	94465616	<i>MCTP1</i>	0.0388	G	-0.0567 (0.0122)	3.08E-06
rs6055681	20	8159777	<i>PLCBI</i>	0.0363	G	-0.0408 (0.0087)	3.09E-06
rs9548937	13	31218052	<i>RXFP2</i>	0.1787	G	0.0239 (0.0051)	3.12E-06
rs10257595	7	33592854	<i>BBS9</i>	0.0404	G	-0.0339 (0.0073)	3.17E-06
rs1936598	10	92389550	<i>HTR7</i>	0.0699	C	-0.0479 (0.0103)	3.22E-06
rs4685009	3	13763884	<i>WNT7A</i>	0.0466	C	-0.0305 (0.0065)	3.29E-06
rs3967024	3	6297086	<i>GRM7</i>	0.403	G	0.0175 (0.0038)	3.32E-06
rs10223962	7	33591451	<i>BBS9</i>	0.0404	T	-0.0339 (0.0073)	3.33E-06
rs1422313	5	126657915	<i>MEGF10</i>	0.2993	T	-0.0165 (0.0036)	3.35E-06
rs925481	15	68524205	<i>UACA</i>	0.031	C	-0.0339 (0.0073)	3.51E-06
rs7962775	12	56587367	<i>XRCC6BPI</i>	0.049	G	-0.0322 (0.0069)	3.52E-06
rs4685010	3	13769978	<i>WNT7A</i>	0.0468	T	-0.0303 (0.0065)	3.63E-06
rs2588430	13	92546181	<i>GPC6</i>	0.4795	G	-0.0192 (0.0041)	3.64E-06
rs8119460	20	8118422	<i>PLCBI</i>	0.0383	G	-0.0392 (0.0085)	3.69E-06

rs204021	16	13148611	<i>ERCC4</i>	0.0335	C	-0.0328 (0.0071)	3.74E-06
rs4685008	3	13761995	<i>WNT7A</i>	0.0468	G	-0.0303 (0.0065)	3.75E-06
rs4446479	5	29660526	<i>PGBD3P2</i>	0.0334	G	-0.0311 (0.0067)	3.86E-06
rs2059083	5	126658847	<i>MEGF10</i>	0.2997	A	-0.0168 (0.0036)	3.89E-06
rs12201737	6	25515461	<i>LRRC16A</i>	0.0425	T	-0.0424 (0.0092)	3.95E-06
rs7634702	3	116811864	<i>GAP43</i>	0.0494	G	-0.0468 (0.0102)	3.97E-06
rs16847683	3	139150762	<i>CLDN18</i>	0.0311	T	-0.0351 (0.0076)	3.98E-06
rs17719189	21	19217173	<i>TMPRSS15</i>	0.0383	T	-0.0301 (0.0065)	4.03E-06
rs6055686	20	8162567	<i>PLCB1</i>	0.0353	T	-0.0409 (0.0089)	4.25E-06
rs11685343	2	124241203	<i>CNTNAP5</i>	0.0333	A	-0.0518 (0.0113)	4.40E-06
rs1920948	12	114181816	<i>TBC3</i>	0.0458	A	0.0377 (0.0082)	4.43E-06
rs453270	1	40628278	<i>SMAP2</i>	0.044	A	-0.0449 (0.0098)	4.44E-06
rs2055367	12	30482536	<i>IPO8</i>	0.0441	G	-0.0625 (0.0136)	4.44E-06
rs567422	15	52450306	<i>UNC13C</i>	0.0656	T	-0.0385 (0.0084)	4.47E-06
rs1867510	15	23581201	<i>ATP10A</i>	0.0372	T	-0.0504 (0.011)	4.57E-06
rs10221630	2	154439301	<i>GALNT13</i>	0.0751	C	-0.0258 (0.0056)	4.59E-06
rs11172377	12	56582765	<i>XRCC6BP1</i>	0.0357	C	-0.0308 (0.0067)	4.74E-06
rs13139310	4	185593905	<i>IRF2</i>	0.0346	A	-0.0511 (0.0112)	4.78E-06
rs880225	6	25510137	<i>LRRC16A</i>	0.0458	G	-0.0363 (0.0079)	4.78E-06
rs9490008	6	120960886	<i>C6orf170</i>	0.0366	T	0.037 (0.0081)	4.93E-06
rs2144460	6	120965657	<i>C6orf170</i>	0.0366	G	0.0372 (0.0081)	4.94E-06
rs9482059	6	120967293	<i>C6orf170</i>	0.0365	A	0.0371 (0.0081)	4.94E-06

SNP single nucleotide polymorphism, *Chr* chromosome, *MAF* minor allele frequency

Supplemental Table 3 Comprehensive results for 16:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	P
rs7207332	17	13146403	<i>HS3ST3A1</i>	0.0932	G	-0.5439 (0.1051)	2.25E-07
rs7001076	8	103129157	<i>NCALD</i>	0.2216	T	-0.3108 (0.0623)	6.16E-07
rs1443769	4	83168213	<i>NPM1P41</i>	0.0524	T	-0.5110 (0.1038)	8.50E-07
rs7000754	8	103129024	<i>NCALD</i>	0.2238	G	-0.3030 (0.0617)	8.97E-07
rs7002154	8	103129612	<i>NCALD</i>	0.2238	C	-0.3031 (0.0617)	9.04E-07
rs7001757	8	103129641	<i>NCALD</i>	0.2238	G	-0.3031 (0.0617)	9.04E-07
rs7001888	8	103129604	<i>NCALD</i>	0.2238	T	-0.3031 (0.0617)	9.04E-07
rs1573312	8	103133038	<i>NCALD</i>	0.2277	G	-0.2977 (0.0616)	1.32E-06
rs2186681	8	103133197	<i>NCALD</i>	0.2263	G	-0.2946 (0.0610)	1.36E-06
rs921368	3	55166626	<i>LRTM1</i>	0.1103	A	-0.3617 (0.0752)	1.50E-06
rs10008568	4	90073215	<i>FAM13A1</i>	0.4992	G	0.2449 (0.0510)	1.56E-06
rs4693978	4	90073190	<i>FAM13A1</i>	0.4992	A	0.2447 (0.0510)	1.60E-06
rs13149750	4	90074017	<i>FAM13A1</i>	0.4992	G	0.2448 (0.0510)	1.61E-06
rs7816849	8	103126338	<i>NCALD</i>	0.2186	C	-0.3001 (0.0628)	1.74E-06
rs4955935	3	55163554	<i>LRTM1</i>	0.1157	C	-0.3480 (0.0730)	1.85E-06
rs1458562	4	90072621	<i>FAM13A1</i>	0.4994	T	-0.2416 (0.0509)	2.11E-06
rs1111908	8	103124395	<i>NCALD</i>	0.218	G	-0.2956 (0.0624)	2.20E-06
rs1111910	8	103123643	<i>NCALD</i>	0.2178	C	-0.2944 (0.0624)	2.40E-06
rs1893533	8	103123820	<i>NCALD</i>	0.2177	G	-0.2945 (0.0624)	2.40E-06
rs6984801	8	103122991	<i>NCALD</i>	0.2195	C	-0.2924 (0.0620)	2.44E-06
rs2869967	4	90088355	<i>FAM13A1</i>	0.4978	T	0.2415 (0.0514)	2.62E-06
rs580845	9	14093618	<i>NFIB</i>	0.4418	A	-0.2518 (0.0536)	2.69E-06
rs2869966	4	90088101	<i>FAM13A1</i>	0.498	C	0.2412 (0.0514)	2.70E-06
rs7624248	3	55165483	<i>LRTM1</i>	0.113	G	-0.3478 (0.0743)	2.88E-06
rs7831664	8	103122467	<i>NCALD</i>	0.2198	G	-0.2879 (0.0618)	3.23E-06
rs2609279	4	90074518	<i>FAM13A1</i>	0.4538	T	0.2392 (0.0515)	3.37E-06
rs2609280	4	90073984	<i>FAM13A1</i>	0.454	A	0.2389 (0.0514)	3.42E-06
rs7463166	8	4821198	<i>CSMD1</i>	0.0347	G	-0.5130 (0.1106)	3.51E-06
rs2609258	4	90058617	<i>FAM13A1</i>	0.4549	C	0.2369 (0.0515)	4.28E-06
rs4693974	4	90029418	<i>FAM13A1</i>	0.4961	G	-0.2360 (0.0513)	4.30E-06
rs2609259	4	90056831	<i>FAM13A1</i>	0.455	A	0.2364 (0.0515)	4.48E-06
rs2609262	4	90054461	<i>FAM13A1</i>	0.4552	A	0.2359 (0.0515)	4.68E-06
rs1246642	4	90083469	<i>FAM13A1</i>	0.4531	C	0.2364 (0.0517)	4.84E-06

SNP single nucleotide polymorphism, Chr chromosome, MAF minor allele frequency

Supplemental Table 4 Comprehensive results for 18:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	<i>P</i>
rs6491730	13	102664091	<i>SLC10A2</i>	0.3226	G	-0.2430 (0.0464)	1.68E-07
rs5748371	22	18016858	<i>SEPT5</i>	0.0307	A	-0.4985 (0.1042)	1.72E-06
rs4871026	8	128589959	<i>POU5F1P1</i>	0.1053	C	-0.2819 (0.0598)	2.43E-06
rs7007540	8	128592822	<i>POU5F1P1</i>	0.1054	A	-0.2807 (0.0598)	2.64E-06
rs9400209	6	108581358	<i>OSTM1</i>	0.2266	G	-0.2160 (0.0461)	2.82E-06
rs9400210	6	108581628	<i>OSTM1</i>	0.2268	C	-0.2165 (0.0462)	2.82E-06
rs17587298	4	40244412	<i>RBM47</i>	0.1812	T	-0.2956 (0.0633)	3.00E-06
rs4871807	8	128582513	<i>POU5F1P1</i>	0.1055	T	-0.2791 (0.0598)	3.10E-06
rs6817468	4	40244627	<i>RBM47</i>	0.1812	T	-0.2949 (0.0633)	3.12E-06
rs12173906	6	108576950	<i>OSTM1</i>	0.2272	A	-0.2117 (0.0455)	3.23E-06
rs2269928	11	61294105	<i>C11orf9</i>	0.2743	G	-0.2944 (0.0634)	3.37E-06
rs6825574	4	125093669	<i>RPL21P50</i>	0.4233	A	-0.1853 (0.0401)	3.88E-06
rs10206072	2	121089936	<i>GLI2</i>	0.2866	A	-0.4244 (0.0920)	3.95E-06

SNP single nucleotide polymorphism, Chr chromosome, MAF minor allele frequency

Supplemental Table 5 Comprehensive results for 20:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	<i>P</i>
rs17159388	19	8226555	<i>LASS4</i>	0.191	A	-0.0109 (0.0017)	1.76E-10
rs11881630	19	8225455	<i>LASS4</i>	0.1905	T	-0.0108 (0.0017)	3.17E-10
rs2927714	19	8230347	<i>LASS4</i>	0.2929	T	-0.0075 (0.0013)	2.62E-08
rs651821	11	116167789	<i>APOA5</i>	0.2845	C	-0.0072 (0.0014)	8.84E-08
rs662799	11	116168917	<i>APOA5</i>	0.2848	G	-0.0073 (0.0014)	9.66E-08
rs7350481	11	116091493	<i>APOA5</i>	0.2483	T	-0.0071 (0.0014)	2.10E-07
rs168622	20	12914089	<i>SPTLC3</i>	0.4183	T	0.0058 (0.0012)	6.48E-07
rs364585	20	12910718	<i>SPTLC3</i>	0.4195	A	0.0058 (0.0012)	6.81E-07
rs680379	20	12917400	<i>SPTLC3</i>	0.4181	A	0.0058 (0.0012)	7.24E-07
rs3843340	2	65627966	<i>RPS15API5</i>	0.1274	C	-0.0076 (0.0016)	2.58E-06
rs4285310	6	24246081	<i>NRSN1</i>	0.2095	A	0.0069 (0.0015)	2.78E-06
rs12090877	1	158642684	<i>VANGL2</i>	0.0587	T	-0.0113 (0.0024)	2.98E-06
rs4814176	20	12907398	<i>SPTLC3</i>	0.4326	T	0.0055 (0.0012)	3.07E-06
rs7455023	6	24241681	<i>NRSN1</i>	0.2099	A	0.0069 (0.0015)	3.53E-06
rs9309375	2	65625659	<i>RPS15API5</i>	0.1275	T	-0.0074 (0.0016)	3.96E-06

SNP single nucleotide polymorphism, *Chr* chromosome, *MAF* minor allele frequency

Supplemental Table 6 Comprehensive results for 22:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	P
rs6822534	4	93033016	<i>CCSER1</i>	0.1382	C	-0.1051 (0.0202)	1.98E-07
rs17018970	4	93101529	<i>CCSER1</i>	0.1414	C	-0.0984 (0.0200)	8.64E-07
rs2965214	19	12890188	<i>SYCE2</i>	0.1608	G	-0.0393 (0.0080)	1.05E-06
rs8113575	19	12891280	<i>SYCE2</i>	0.1908	G	-0.0394 (0.0081)	1.12E-06
rs741702	19	12885250	<i>SYCE2</i>	0.1606	A	-0.0392 (0.0080)	1.14E-06
rs10027172	4	52968563	<i>USP46</i>	0.1988	A	0.0404 (0.0083)	1.18E-06
rs10021930	4	52995435	<i>USP46</i>	0.1978	G	0.0393 (0.0081)	1.20E-06
rs4865312	4	52996561	<i>USP46</i>	0.1982	C	0.039 (0.0081)	1.36E-06
rs17706531	19	12876530	<i>SYCE2</i>	0.1599	G	-0.0387 (0.0081)	1.61E-06
rs6838531	4	53322363	<i>USP46</i>	0.2359	C	0.0422 (0.0088)	1.68E-06
rs1010222	19	12909608	<i>CALR</i>	0.1662	A	-0.0382 (0.0080)	1.71E-06
rs2411266	4	53319114	<i>USP46</i>	0.1884	A	0.0399 (0.0084)	1.98E-06
rs7660838	4	53319145	<i>USP46</i>	0.1896	G	0.0396 (0.0083)	2.11E-06
rs7697631	4	53318876	<i>USP46</i>	0.1897	T	0.0395 (0.0083)	2.16E-06
rs10009096	4	53318494	<i>USP46</i>	0.1897	T	0.0395 (0.0083)	2.19E-06
rs10015760	4	53320858	<i>USP46</i>	0.1869	T	0.04 (0.0085)	2.36E-06
rs10027138	4	53097338	<i>USP46</i>	0.1495	G	0.0448 (0.0095)	2.57E-06
rs4865408	4	53314124	<i>USP46</i>	0.1903	T	0.0387 (0.0083)	2.79E-06
rs7690219	4	53310805	<i>USP46</i>	0.1946	C	0.0378 (0.0081)	2.85E-06
rs4865407	4	53313898	<i>USP46</i>	0.1903	C	0.0386 (0.0083)	2.88E-06
rs9384	19	12871643	<i>SYCE2</i>	0.1673	T	-0.0378 (0.0081)	2.96E-06
rs2293683	19	12900284	<i>FARSA</i>	0.1814	A	-0.036 (0.0077)	3.07E-06
rs6836873	4	53293732	<i>USP46</i>	0.1658	T	0.0415 (0.0089)	3.10E-06
rs7575204	2	33499154	<i>RASGRP3</i>	0.2503	C	-0.034 (0.0073)	3.18E-06
rs9992287	4	53306659	<i>USP46</i>	0.1949	G	0.0373 (0.0080)	3.42E-06
rs3733503	4	53306458	<i>USP46</i>	0.1948	C	0.0373 (0.0080)	3.44E-06
rs4286600	4	53290445	<i>USP46</i>	0.1655	G	0.041 (0.0089)	3.78E-06
rs2577942	4	53092326	<i>USP46</i>	0.1333	A	0.0458 (0.0099)	3.85E-06
rs3733504	4	53306425	<i>USP46</i>	0.1962	C	0.0371 (0.0080)	3.86E-06
rs6817996	4	53293825	<i>USP46</i>	0.1769	A	0.0398 (0.0086)	3.91E-06
rs346923	4	53106886	<i>USP46</i>	0.193	A	0.037 (0.0080)	4.00E-06
rs7699030	4	53289523	<i>USP46</i>	0.1655	G	0.0409 (0.0089)	4.03E-06
rs12716759	16	83935092	<i>TMEM148</i>	0.3272	C	0.0313 (0.0068)	4.06E-06
rs1525525	7	148693155	<i>NPM1P12</i>	0.253	T	-0.0788 (0.0171)	4.14E-06
rs2577946	4	53098843	<i>USP46</i>	0.1929	C	0.0369 (0.0080)	4.18E-06
rs17675398	4	52999309	<i>USP46</i>	0.1941	G	0.0369 (0.0080)	4.23E-06
rs1347763	4	53094373	<i>USP46</i>	0.1934	C	0.0367 (0.0080)	4.50E-06
rs9312711	4	53096903	<i>USP46</i>	0.1932	A	0.0366 (0.0080)	4.51E-06
rs10084879	4	53066778	<i>USP46</i>	0.1937	A	0.0368 (0.0080)	4.52E-06
rs4941114	18	57965751	<i>PIGN</i>	0.2846	G	0.0305 (0.0067)	4.81E-06
rs11085824	19	12862547	<i>GCDH</i>	0.1558	G	-0.0375 (0.0082)	4.86E-06

rs9959469	18	57967271	<i>PIGN</i>	0.2846	A	0.0304 (0.0067)	4.93E-06
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SNP single nucleotide polymorphism, *Chr* chromosome, *MAF* minor allele frequency

Supplemental Table 7 Comprehensive results for 24:0 with $P < 5 \times 10^{-6}$

SNP	Chr	Position	Nearest gene	MAF	Minor allele	Beta (SE)	P
rs9349666	6	53327632	<i>ELOVL5</i>	0.3399	A	0.1184 (0.0228)	3.88E-07
rs4285320	6	53328079	<i>ELOVL5</i>	0.327	C	0.1142 (0.0229)	1.06E-06
rs910045	6	53324168	<i>ELOVL5</i>	0.327	T	0.1142 (0.0229)	1.07E-06
rs9395854	6	53280718	<i>ELOVL5</i>	0.3335	A	0.1105 (0.0223)	1.21E-06
rs6458913	6	53260601	<i>ELOVL5</i>	0.3338	A	0.1103 (0.0223)	1.27E-06
rs2115563	6	53329941	<i>ELOVL5</i>	0.3328	G	0.1131 (0.0229)	1.32E-06
rs9382198	6	53315684	<i>ELOVL5</i>	0.3341	C	0.1100 (0.0223)	1.36E-06
rs2235723	6	53254362	<i>ELOVL5</i>	0.3335	G	0.1098 (0.0223)	1.42E-06
rs974323	6	53267506	<i>ELOVL5</i>	0.3336	T	0.1097 (0.0223)	1.44E-06
rs9296707	6	53270577	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs9367520	6	53271883	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs2294869	6	53263299	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs6907982	6	53260717	<i>ELOVL5</i>	0.3336	G	0.1097 (0.0223)	1.44E-06
rs6915255	6	53270106	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs9349660	6	53262169	<i>ELOVL5</i>	0.3336	T	0.1097 (0.0223)	1.44E-06
rs9370190	6	53269484	<i>ELOVL5</i>	0.3336	G	0.1097 (0.0223)	1.44E-06
rs9296708	6	53272858	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs761179	6	53274795	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs1864250	6	53314110	<i>ELOVL5</i>	0.3335	G	0.1097 (0.0223)	1.44E-06
rs9370193	6	53282296	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs9370194	6	53283641	<i>ELOVL5</i>	0.3336	T	0.1097 (0.0223)	1.44E-06
rs4431421	6	53282765	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs9382193	6	53284326	<i>ELOVL5</i>	0.3336	C	0.1097 (0.0223)	1.44E-06
rs9370201	6	53318131	<i>ELOVL5</i>	0.3335	G	0.1097 (0.0223)	1.44E-06
rs9367523	6	53315409	<i>ELOVL5</i>	0.3335	G	0.1097 (0.0223)	1.44E-06
rs1864249	6	53314167	<i>ELOVL5</i>	0.3335	T	0.1097 (0.0223)	1.44E-06
rs2397142	6	53308258	<i>ELOVL5</i>	0.3335	G	0.1097 (0.0223)	1.44E-06
rs4562128	6	53310565	<i>LOC647190</i>	0.3335	C	0.1097 (0.0223)	1.44E-06
rs9370200	6	53311941	<i>ELOVL5</i>	0.3335	T	0.1097 (0.0223)	1.44E-06
rs926586	6	53305896	<i>ELOVL5</i>	0.3335	G	0.1097 (0.0223)	1.44E-06
rs9382199	6	53317079	<i>ELOVL5</i>	0.3335	C	0.1097 (0.0223)	1.44E-06
rs2894809	6	53305744	<i>ELOVL5</i>	0.3335	C	0.1097 (0.0223)	1.44E-06
rs9370198	6	53303778	<i>ELOVL5</i>	0.3337	C	0.1098 (0.0223)	1.45E-06
rs6458918	6	53300965	<i>ELOVL5</i>	0.3337	C	0.1098 (0.0223)	1.45E-06
rs9370197	6	53303516	<i>ELOVL5</i>	0.3337	C	0.1098 (0.0223)	1.45E-06
rs9382197	6	53302085	<i>ELOVL5</i>	0.3337	G	0.1098 (0.0223)	1.45E-06
rs2294863	6	53248719	<i>ELOVL5</i>	0.3332	A	0.1096 (0.0223)	1.45E-06
rs9463895	6	53246219	<i>ELOVL5</i>	0.3332	A	0.1095 (0.0223)	1.49E-06
rs7738788	6	53294567	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06
rs7747926	6	53292467	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06
rs9367521	6	53288126	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06

rs9382194	6	53287738	<i>ELOVL5</i>	0.3338	A	0.1096 (0.0223)	1.52E-06
rs9395857	6	53285441	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06
rs9474484	6	53290724	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06
rs9357760	6	53298093	<i>ELOVL5</i>	0.3338	G	0.1096 (0.0223)	1.52E-06
rs9370196	6	53298209	<i>ELOVL5</i>	0.3338	C	0.1096 (0.0223)	1.52E-06
rs9395856	6	53284867	<i>ELOVL5</i>	0.3338	T	0.1096 (0.0223)	1.52E-06
rs2057024	6	53238040	<i>ELOVL5</i>	0.3338	T	0.1092 (0.0223)	1.61E-06
rs2057023	6	53237701	<i>ELOVL5</i>	0.3332	A	0.1092 (0.0223)	1.61E-06
rs2562896	6	53233861	<i>ELOVL5</i>	0.3358	C	0.1097 (0.0224)	1.70E-06
rs9474476	6	53257463	<i>ELOVL5</i>	0.329	C	0.1078 (0.0225)	2.74E-06
rs2817108	6	53217260	<i>ELOVL5</i>	0.4222	C	0.1045 (0.0219)	3.16E-06
rs2562898	6	53221300	<i>ELOVL5</i>	0.4222	T	0.1040 (0.0218)	3.25E-06
rs4697186	4	20430556	<i>KCNIP4</i>	0.4696	G	0.1168 (0.0246)	3.48E-06
rs6458912	6	53255924	<i>ELOVL5</i>	0.3721	A	0.1032 (0.0219)	4.22E-06
rs17085918	13	27151219	<i>POLRID</i>	0.2358	G	-0.1164 (0.0248)	4.60E-06

SNP single nucleotide polymorphism, *Chr* chromosome, *MAF* minor allele frequency

Supplemental Table 8 SNPs reaching genome-wide significance in cohort-specific GWAS

Fatty acid	Nearest Gene	SNP	CHR	Position	Coded allele/ non-coded allele	CAF	NHAPC			MESA			Combined		I ²	P _{heter}
							CAF	beta (SE)	P	CAF	beta (SE)	P	beta (SE)	P		
Significant SNPs in NHAPC																
14:0	<i>FECHP</i>	rs1440385	3	34120601	A/G	0.080	0.077	-0.049(0.009)	4.24E-08	0.083	0.013(0.008)	0.091	-0.013(0.006)	0.026	0.96	2.41E-07
		<i>FAM110B</i>	rs10448026	8	59105293	T/G	0.926	0.923	0.054(0.010)	1.77E-08	0.928	-0.006(0.008)	0.429	0.017(0.006)	5.09E-03	0.96
	rs1122328			59100304	T/C	0.074	0.078	-0.053(0.009)	2.46E-08	0.072	0.006(0.008)	0.430	-0.017(0.006)	5.61E-03	0.96	1.83E-06
	rs4480114			59094841	A/C	0.074	0.077	-0.054(0.010)	1.76E-08	0.072	0.006(0.008)	0.429	-0.017(0.006)	5.13E-03	0.96	1.44E-06
	rs9792275		59089520	T/C	0.931	0.926	0.055(0.010)	2.56E-08	0.934	-0.006(0.008)	0.440	0.018(0.006)	5.21E-03	0.96	2.07E-06	
	<i>AICF</i>	rs10821905	10	52316099	A/G	0.055	0.057	-0.055(0.010)	1.19E-08	0.054	0.006(0.009)	0.489	-0.021(0.007)	1.44E-03	0.95	3.55E-06
		rs10994856		52315254	A/G	0.055	0.057	-0.055(0.010)	1.14E-08	0.053	0.006(0.009)	0.485	-0.021(0.007)	1.34E-03	0.95	3.67E-06
		rs10994860		52315430	T/C	0.055	0.057	-0.055(0.010)	1.15E-08	0.053	0.006(0.009)	0.485	-0.021(0.007)	1.34E-03	0.95	3.68E-06
	<i>JAM3</i>	rs11601844	11	133437995	C/G	0.892	0.902	0.056(0.010)	1.01E-08	0.888	0.008(0.006)	0.157	0.021(0.005)	4.21E-05	0.94	4.46E-05
	<i>RASSF8</i>	rs1513126	12	26096646	A/G	0.944	0.948	0.055(0.010)	7.14E-09	0.942	0.009(0.007)	0.202	0.024(0.006)	1.75E-05	0.94	9.28E-05
<i>MACROD2</i>	rs8120608	20	15202051	T/G	0.913	0.919	0.051(0.009)	1.19E-08	0.908	-0.009(0.008)	0.257	0.017(0.006)	4.73E-03	0.96	7.57E-07	
20:0	<i>CERS4</i>	rs17159388	19	8226555	A/G	0.191	0.191	-0.011(0.002)	1.76E-10	NA	NA	NA	-0.011(0.002)	1.76E-10	NA	NA
		rs11881630		8225455	C/T	0.810	0.810	0.011(0.002)	3.17E-10	NA	NA	NA	0.011(0.002)	3.17E-10	NA	NA
		rs2927714		8230347	T/C	0.293	0.293	-0.008(0.001)	2.62E-08	NA	NA	NA	-0.008(0.001)	2.62E-08	NA	NA
Significant SNPs in MESA																
14:0	<i>LOC100128956</i>	rs10065046	5	126596938	T/C	0.260	0.270	-0.005(0.009)	0.539	0.259	-0.020(0.004)	4.91E-08	-0.018(0.004)	1.77E-07	0.58	0.125
		rs6595752		126593983	A/T	0.738	0.728	0.006(0.009)	0.522	0.739	0.021(0.004)	4.68E-08	0.019(0.004)	1.58E-07	0.56	0.133
		rs6871230		126595483	T/C	0.270	0.273	-0.005(0.009)	0.572	0.265	-0.021(0.004)	3.44E-08	-0.019(0.004)	1.46E-07	0.62	0.107
22:0	<i>ST8SIA5</i>	rs328120	18	42525097	C/G	0.062	0.064	-0.006(0.013)	0.653	0.052	-0.151(0.028)	4.31E-08	-0.031(0.012)	7.60 E-03	0.96	2.33E-06
		rs328134		42510512	T/C	0.066	0.068	-0.005(0.012)	0.707	0.060	-0.142(0.025)	9.45E-09	-0.031(0.011)	4.64E-03	0.96	8.57E-07
		rs430361		42501316	A/G	0.067	0.068	-0.005(0.012)	0.700	0.061	-0.137(0.025)	3.80E-08	-0.030(0.011)	6.41E-03	0.96	2.47E-06
		rs447137		42503613	T/C	0.066	0.068	-0.005(0.012)	0.686	0.059	-0.140(0.025)	1.27E-08	-0.032(0.011)	4.35E-03	0.96	1.20E-06
		rs645631		42505993	A/C	0.934	0.932	0.005(0.012)	0.685	0.944	0.145(0.026)	2.27E-08	0.030(0.011)	6.69E-03	0.96	1.42E-06

SNP single nucleotide polymorphism, CHR chromosome, CAF coded allele frequency, NA not available, I² I square of heterogeneity, P_{heter} heterogeneity of effect sizes between NHAPC and MESA studies

Supplemental Table 9 Replication of 16:0 related top SNPs with $P < 5 \times 10^{-6}$ identified in European ancestry populations ^a

SNP	Closest Gene	Effect allele	European ancestry populations				Chinese populations			
			EAF	Effect ^b	SE ^b	P^b	EAF	Effect ^b	SE ^b	P^b
rs2391388	<i>ALG14</i>	a	0.5494	-0.1775	0.0266	2.72E-11	0.1798	-0.1308	0.0691	0.05814
rs6675668	<i>ALG14</i>	t	0.4796	0.1785	0.0274	7.50E-11	0.8162	0.1447	0.0686	0.03502
rs7537374	<i>ALG14</i>	a	0.5082	-0.1733	0.0268	1.05E-10	0.18	-0.1341	0.0691	0.05219
rs7547662	<i>ALG14</i>	t	0.4857	0.1724	0.0267	1.07E-10	0.8346	0.0937	0.0751	0.2121
rs7533303	<i>ALG14</i>	t	0.5095	-0.1709	0.0267	1.45E-10	0.1765	-0.1083	0.0718	0.1318
rs11585462	<i>ALG14</i>	a	0.4428	-0.1764	0.0276	1.58E-10	0.1834	-0.1395	0.0684	0.04143
rs6687388	<i>ALG14</i>	t	0.4459	-0.1735	0.0271	1.60E-10	0.1831	-0.1421	0.0688	0.03883
rs4339907	<i>ALG14</i>	a	0.4477	-0.177	0.0277	1.64E-10	0.1831	-0.1426	0.0688	0.03832
rs2797623	<i>ALG14</i>	a	0.4851	0.171	0.0268	1.66E-10	0.8464	0.0416	0.077	0.5894
rs10874902	<i>ALG14</i>	a	0.5617	0.1781	0.0279	1.83E-10	0.8173	0.1402	0.0689	0.04184
rs10735790	<i>ALG14</i>	t	0.4479	-0.1719	0.0271	2.25E-10	0.1757	-0.1491	0.0707	0.03499
rs4847220	<i>ALG14</i>	a	0.4352	-0.1675	0.0265	2.57E-10	0.1741	-0.1218	0.0717	0.0892
rs6671200	<i>RWDD3</i>	a	0.088	0.2906	0.046	2.70E-10	NA	NA	NA	NA
rs6678964	<i>RWDD3</i>	a	0.0885	0.2911	0.0462	2.89E-10	NA	NA	NA	NA
rs259350	<i>RWDD3</i>	c	0.9081	-0.2917	0.0463	3.07E-10	NA	NA	NA	NA
rs259357	<i>RWDD3</i>	t	0.912	-0.2903	0.0461	3.16E-10	NA	NA	NA	NA
rs4630159	<i>ALG14</i>	t	0.4342	-0.171	0.0272	3.26E-10	0.1836	-0.1346	0.0678	0.04712
rs12749053	<i>TMEM56</i>	a	0.9087	-0.2871	0.0459	3.82E-10	NA	NA	NA	NA
rs6687450	<i>ALG14</i>	t	0.4317	-0.1679	0.0268	3.84E-10	0.1668	-0.1277	0.0758	0.09203
rs9437812	<i>ALG14</i>	a	0.569	0.1693	0.0271	3.93E-10	0.8168	0.1337	0.0681	0.04947
rs6698046	<i>ALG14</i>	a	0.435	-0.1648	0.0264	4.04E-10	0.1539	-0.0579	0.0741	0.4342
rs4950058	<i>ALG14</i>	t	0.5701	0.1688	0.027	4.15E-10	0.8168	0.1337	0.0681	0.0495
rs4949965	<i>ALG14</i>	a	0.5688	0.1642	0.0265	5.53E-10	0.8169	0.1336	0.0681	0.04965
rs12741128	<i>TMEM56</i>	t	0.424	-0.1641	0.0265	5.73E-10	0.1795	-0.1174	0.0698	0.09245
rs11591183	<i>TMEM56</i>	t	0.5704	0.1631	0.0264	6.41E-10	0.8179	0.1304	0.0684	0.05678
rs933107	<i>TMEM56</i>	t	0.9086	-0.2841	0.046	6.53E-10	NA	NA	NA	NA
rs12569207	<i>ALG14</i>	a	0.43	-0.1629	0.0264	6.54E-10	0.1827	-0.1316	0.0683	0.0538
rs11165339	<i>TMEM56</i>	t	0.091	0.284	0.0461	7.06E-10	NA	NA	NA	NA
rs4390223	<i>ALG14</i>	t	0.5701	0.1617	0.0263	8.32E-10	0.8173	0.1313	0.0683	0.05445
rs2766010	<i>ALG14</i>	t	0.5651	0.1599	0.0262	1.05E-09	0.848	0.0411	0.0769	0.5937
rs12755552	<i>RWDD3</i>	a	0.909	-0.2824	0.0463	1.10E-09	NA	NA	NA	NA
rs2797622	<i>ALG14</i>	a	0.5648	0.1601	0.0263	1.15E-09	0.8471	0.0372	0.0772	0.6303
rs859046	<i>CNN3</i>	t	0.3258	-0.1754	0.0288	1.16E-09	0.1946	0.0206	0.0668	0.7577
rs259346	<i>RWDD3</i>	a	0.0884	0.291	0.0478	1.17E-09	NA	NA	NA	NA
rs859044	<i>CNN3</i>	a	0.3224	-0.1799	0.0296	1.19E-09	0.2084	0.0253	0.0851	0.7661
rs10747468	<i>RWDD3</i>	t	0.091	0.281	0.0463	1.26E-09	NA	NA	NA	NA
rs2391391	<i>ALG14</i>	a	0.2742	0.1798	0.0296	1.31E-09	0.2373	0.0742	0.0598	0.214
rs13375406	<i>TMEM56</i>	c	0.0906	0.2911	0.0481	1.39E-09	NA	NA	NA	NA
rs7540821	<i>ALG14</i>	a	0.8017	-0.2002	0.0334	2.06E-09	0.8553	-0.0183	0.0687	0.7897
rs11165297	<i>ALG14</i>	a	0.1912	0.2068	0.0346	2.22E-09	0.1408	0.0369	0.0704	0.6006
rs6674604	<i>ALG14</i>	a	0.1932	0.2002	0.0336	2.44E-09	0.1404	0.0301	0.0703	0.6682
rs11589700	<i>ALG14</i>	t	0.1025	0.2604	0.0437	2.45E-09	NA	NA	NA	NA
rs6697256	<i>TMEM56</i>	a	0.1501	0.2253	0.0378	2.48E-09	0.3886	-0.0164	0.0522	0.753
rs6698894	<i>ALG14</i>	t	0.8077	-0.2036	0.0342	2.52E-09	NA	NA	NA	NA
rs12751633	<i>ALG14</i>	t	0.8003	-0.1992	0.0334	2.56E-09	0.8552	-0.0184	0.0687	0.7889

rs11586384	<i>ALG14</i>	a	0.1011	0.2751	0.0463	2.89E-09	NA	NA	NA	NA
rs7528790	<i>RWDD3</i>	a	0.1285	0.2341	0.0395	3.15E-09	0.2395	0.0243	0.0583	0.6766
rs3753872	<i>RWDD3</i>	t	0.1289	0.2339	0.0395	3.17E-09	0.2491	0.0377	0.0582	0.5165
rs2147587	<i>RWDD3</i>	a	0.8717	-0.2336	0.0395	3.22E-09	0.7548	-0.0309	0.0588	0.599
rs6671842	<i>ALG14</i>	t	0.1957	0.1965	0.0333	3.41E-09	0.1901	0.1033	0.089	0.2457
rs860873	<i>CNN3</i>	a	0.4433	-0.1668	0.0283	3.58E-09	0.1722	0.0351	0.0719	0.6255
rs2296308	<i>RWDD3</i>	t	0.1283	0.2328	0.0395	3.60E-09	0.2394	0.0241	0.0583	0.6789
rs12760863	<i>ALG14</i>	a	0.1993	0.2032	0.0346	4.30E-09	0.1405	0.0318	0.0709	0.6538
rs12751061	<i>ALG14</i>	a	0.9002	-0.2823	0.0483	4.93E-09	NA	NA	NA	NA
rs9437689	<i>ALG14</i>	t	0.4592	-0.1615	0.0276	5.07E-09	0.1852	-0.139	0.0681	0.04141
rs1265169	<i>CNN3</i>	c	0.4387	-0.1557	0.0268	5.86E-09	0.118	-0.0346	0.0859	0.6873
rs12092678	<i>ALG14</i>	t	0.8337	-0.2094	0.036	6.07E-09	0.9195	-0.0888	0.0964	0.3568
rs6674467	<i>ALG14</i>	a	0.1425	0.2292	0.0396	6.93E-09	0.0975	0.0093	0.0795	0.9068
rs6672045	<i>ALG14</i>	t	0.8436	-0.2147	0.0371	7.09E-09	NA	NA	NA	NA
rs6684137	<i>ALG14</i>	a	0.1443	0.2268	0.0392	7.25E-09	0.0967	0.0173	0.0809	0.8302
rs11801110	<i>ALG14</i>	t	0.1453	0.2225	0.0385	7.52E-09	0.0967	0.0157	0.0806	0.8457
rs1146461	<i>CNN3</i>	a	0.5685	0.1534	0.0266	7.67E-09	0.8819	0.0361	0.0854	0.6727
rs859040	<i>CNN3</i>	t	0.1519	0.2117	0.0367	8.00E-09	0.5237	-0.1074	0.0526	0.0412
rs11165281	<i>ALG14</i>	t	0.1586	0.2111	0.0366	8.07E-09	0.1818	0.0683	0.0678	0.3135
rs12739445	<i>ALG14</i>	c	0.0972	0.2858	0.0497	8.57E-09	NA	NA	NA	NA
rs4387224	<i>ALG14</i>	t	0.855	-0.2208	0.0384	8.78E-09	0.9033	-0.0158	0.0806	0.8443
rs6678809	<i>ALG14</i>	c	0.8549	-0.2224	0.0387	9.18E-09	0.9032	-0.0161	0.0807	0.8415
rs10493880	<i>ALG14</i>	t	0.4376	-0.1517	0.0264	9.23E-09	0.2221	-0.0166	0.0634	0.7933
rs3890785	<i>ALG14</i>	t	0.8557	-0.2213	0.0386	9.70E-09	0.9033	-0.0158	0.0806	0.8448
rs6680551	<i>TMEM56</i>	a	0.15	0.2104	0.0367	9.96E-09	0.3882	-0.0178	0.0521	0.7331
rs10465759	<i>ALG14</i>	t	0.854	-0.2152	0.0375	1.00E-08	0.9028	-0.0045	0.0794	0.9549
rs2298162	<i>ALG14</i>	t	0.631	-0.155	0.0271	1.11E-08	0.2429	0.0358	0.0624	0.5654
rs2766005	<i>ALG14</i>	a	0.4246	0.15	0.0263	1.18E-08	0.8631	0.0251	0.0801	0.7536
rs864553	<i>CNN3</i>	c	0.15	0.2175	0.0383	1.35E-08	0.5231	-0.107	0.0531	0.04385
rs12755096	<i>ALG14</i>	a	0.7643	-0.1924	0.034	1.52E-08	0.8592	-0.035	0.0709	0.622
rs2797616	<i>ALG14</i>	t	0.5172	0.1474	0.0261	1.61E-08	0.861	0.0283	0.081	0.7265
rs4131811	<i>ALG14</i>	t	0.2351	0.1806	0.0323	2.28E-08	0.1449	0.0203	0.0688	0.7683
rs4615892	<i>ALG14</i>	t	0.171	0.1965	0.0352	2.36E-08	0.0972	0.018	0.0802	0.8223
rs11590106	<i>ALG14</i>	a	0.7654	-0.1803	0.0324	2.55E-08	0.8596	-0.0294	0.0703	0.6757
rs7417186	<i>ALG14</i>	t	0.1707	0.1956	0.0351	2.58E-08	0.0972	0.0182	0.0801	0.8203
rs1265168	<i>CNN3</i>	t	0.8271	-0.2051	0.037	2.91E-08	0.7603	0.0687	0.0611	0.2614
rs2040048	<i>CNN3</i>	a	0.5693	-0.1496	0.0271	3.33E-08	0.6804	4.00E-04	0.0555	0.9944
rs11590093	<i>ALG14</i>	a	0.136	0.227	0.0416	4.98E-08	NA	NA	NA	NA
rs11165305	<i>TMEM56</i>	a	0.3944	0.1522	0.0283	7.36E-08	0.6446	0.0752	0.0698	0.2813
rs6687351	<i>ALG14</i>	a	0.1838	0.1999	0.0373	8.40E-08	0.0967	0.0173	0.0809	0.8307
rs6662345	<i>ALG14</i>	t	0.184	0.1991	0.0373	9.27E-08	0.0967	0.0174	0.0809	0.8298
rs6679106	<i>ALG14</i>	a	0.8164	-0.1993	0.0373	9.43E-08	0.9033	-0.0173	0.0809	0.8308
rs12239887	<i>ALG14</i>	a	0.2105	0.1858	0.035	1.14E-07	NA	NA	NA	NA
rs4619020	<i>TMEM56</i>	t	0.3993	0.1472	0.0279	1.35E-07	0.6373	0.0536	0.0542	0.3232
rs7543042	<i>RWDD3</i>	t	0.8889	-0.2541	0.0484	1.50E-07	0.7631	-0.0296	0.059	0.616
rs12562716	<i>TMEM56</i>	a	0.5998	-0.1462	0.0279	1.59E-07	0.3628	-0.0538	0.0542	0.321
rs6672436	<i>TMEM56</i>	t	0.4019	0.1455	0.0278	1.59E-07	0.637	0.054	0.0541	0.3185
rs4128898	<i>TMEM56</i>	c	0.3994	0.1465	0.028	1.60E-07	0.638	0.053	0.0544	0.3297

rs1132	<i>CNN3</i>	a	0.4766	0.1433	0.0273	1.62E-07	0.4782	0.049	0.0533	0.3576
rs603424	<i>PKD2L1</i>	a	0.1972	0.1891	0.0361	1.64E-07	0.0736	0.08	0.0933	0.3909
rs1146460	<i>CNN3</i>	t	0.5253	0.1363	0.0261	1.85E-07	0.4767	0.0519	0.0527	0.3256
rs994988	<i>GRIK2</i>	t	0.5333	-0.1395	0.0269	2.10E-07	0.5973	0.1018	0.0516	0.0484
rs6665763	<i>TMEM56</i>	t	0.399	0.1413	0.0273	2.24E-07	0.6357	0.0559	0.0537	0.2974
rs11807661	<i>CNN3</i>	a	0.8585	-0.1972	0.0382	2.43E-07	NA	NA	NA	NA
rs1271952	<i>CNN3</i>	t	0.4744	-0.1342	0.0261	2.75E-07	0.5238	-0.04	0.0525	0.4464
rs6667676	<i>ALG14</i>	a	0.3521	0.1468	0.0289	3.81E-07	0.2301	0.0727	0.0641	0.2571
rs6666037	<i>RWDD3</i>	t	0.9269	-0.3021	0.0598	4.44E-07	NA	NA	NA	NA
rs9322714	<i>GRIK2</i>	a	0.4366	0.1305	0.0265	8.81E-07	0.1283	-0.0652	0.0733	0.3739
rs767015	<i>CNN3</i>	t	0.4818	0.1325	0.027	8.90E-07	0.4764	0.0566	0.053	0.2855
rs10414689	<i>FLJ40235</i>	t	0.9873	0.7818	0.1592	9.03E-07	NA	NA	NA	NA
rs10809457	<i>PTPRD</i>	t	0.4077	-0.1394	0.0284	9.30E-07	0.1047	0.1297	0.0876	0.1384
rs6474646	<i>PTPRD</i>	t	0.5711	0.1332	0.0273	1.07E-06	0.8963	-0.1238	0.0874	0.1568
rs9499395	<i>GRIK2</i>	a	0.4372	0.1313	0.027	1.21E-06	0.3393	-0.1305	0.053	0.0138
rs1246351	<i>CNN3</i>	a	0.4666	0.1303	0.0269	1.25E-06	0.3772	0.0137	0.0544	0.8018
rs4950077	<i>TMEM56</i>	a	0.6362	0.132	0.0274	1.43E-06	0.8418	0.0545	0.0769	0.4784
rs10237735	<i>LSM5</i>	t	0.0123	-0.7138	0.1482	1.46E-06	NA	NA	NA	NA
rs1023330	<i>TMEM56</i>	t	0.3642	-0.1308	0.0274	1.79E-06	0.1473	-0.0419	0.0776	0.5895
rs2157552	<i>GRIK2</i>	a	0.5511	-0.1312	0.0275	1.79E-06	0.6696	0.1329	0.054	0.01379
rs16927656	<i>PTPRD</i>	t	0.4037	-0.1348	0.0286	2.38E-06	0.0843	0.1638	0.0977	0.0938
rs780093	<i>GCKR</i>	t	0.4145	0.1261	0.0269	2.65E-06	0.5173	0.0274	0.0564	0.6271
rs7561966	<i>HS6ST1</i>	a	0.9878	-0.6809	0.1462	3.19E-06	NA	NA	NA	NA
rs1596341	<i>PTPRD</i>	a	0.4022	-0.127	0.0273	3.32E-06	0.0789	0.161	0.0984	0.102
rs1260333	<i>GCKR</i>	a	0.4617	0.1252	0.027	3.44E-06	0.5142	0.0188	0.0572	0.7428
rs2911711	<i>GCKR</i>	a	0.5385	-0.1252	0.027	3.51E-06	0.4844	-0.0241	0.0567	0.6706
rs1887094	<i>CNN3</i>	c	0.5434	-0.1244	0.027	4.11E-06	0.7343	-0.1155	0.0605	0.0565
rs4946988	<i>GRIK2</i>	a	0.4785	-0.1242	0.027	4.17E-06	0.661	0.132	0.0529	0.0126
rs10234749	<i>XRCC2</i>	t	0.2467	-0.1788	0.0389	4.21E-06	0.3859	-0.0151	0.0573	0.792
rs9390987	<i>GRIK2</i>	a	0.5222	0.124	0.027	4.27E-06	0.3368	-0.1312	0.0532	0.01373
rs1980946	<i>B4GALT5</i>	c	0.927	-0.298	0.0649	4.44E-06	NA	NA	NA	NA
rs9816269	<i>ZNF659</i>	t	0.9637	0.3667	0.0801	4.64E-06	0.9612	-0.0238	0.1483	0.8726
rs6474664	<i>PTPRD</i>	a	0.5931	0.1249	0.0273	4.66E-06	0.7643	-0.0879	0.065	0.1765
rs780094	<i>GCKR</i>	t	0.4151	0.1227	0.0268	4.67E-06	0.5135	0.0279	0.0559	0.6175
rs12297524	<i>SLC15A4</i>	t	0.3816	0.1258	0.0275	4.82E-06	0.3446	-0.0106	0.0571	0.8534
rs17009275	<i>ZNF659</i>	t	0.9638	0.3669	0.0802	4.82E-06	0.9612	-0.0174	0.1479	0.9065
rs11609257	<i>SLC15A4</i>	t	0.3803	0.1251	0.0274	4.87E-06	0.3429	-0.0106	0.0567	0.8523
rs11059603	<i>SLC15A4</i>	t	0.6198	-0.1247	0.0274	5.24E-06	0.6567	0.0123	0.0569	0.8285
rs10809437	<i>PTPRD</i>	t	0.559	0.1229	0.027	5.26E-06	0.8957	-0.1111	0.0873	0.2028
rs1414202	<i>PTPRD</i>	t	0.5576	0.1223	0.0269	5.26E-06	0.8954	-0.1017	0.0868	0.2413
rs3949548	<i>PTPRD</i>	a	0.5586	0.1233	0.0271	5.33E-06	0.8954	-0.1112	0.0873	0.203
rs12825406	<i>SLC15A4</i>	a	0.3804	0.1244	0.0274	5.53E-06	0.3421	-0.0119	0.057	0.8352
rs1980947	<i>B4GALT5</i>	c	0.0727	0.2923	0.0644	5.71E-06	0.2102	-0.0979	0.0617	0.1125
rs1806267	<i>RPAIN</i>	t	0.3811	0.1288	0.0284	5.76E-06	0.8388	-0.0033	0.0703	0.9629
rs2200946	<i>ZNF659</i>	t	0.9666	0.3853	0.085	5.87E-06	0.9614	0.0166	0.1451	0.9089
rs11022052	<i>USP47</i>	a	0.0698	0.2785	0.0616	6.11E-06	0.2416	-0.0525	0.0609	0.3886
rs16910154	<i>USP47</i>	a	0.9302	-0.2715	0.0601	6.20E-06	0.7745	0.0666	0.0617	0.2804
rs1514898	<i>SLC15A4</i>	a	0.3803	0.124	0.0274	6.21E-06	0.3441	-0.013	0.057	0.82

rs4609118	<i>XRCC2</i>	t	0.2464	-0.174	0.0385	6.22E-06	0.3946	-0.0118	0.0582	0.8393
rs7871636	<i>PTPRD</i>	t	0.4009	-0.1327	0.0294	6.45E-06	0.1775	0.1528	0.0719	0.03353
rs16910189	<i>USP47</i>	a	0.9307	-0.2778	0.0618	6.91E-06	0.7583	0.0514	0.0609	0.3982
rs9377470	<i>GRIK2</i>	c	0.4797	-0.12	0.0267	7.04E-06	0.6598	0.1315	0.0528	0.01283
rs1260326	<i>GCKR</i>	t	0.4278	0.1206	0.0269	7.53E-06	0.518	0.0269	0.0564	0.6334
rs16910211	<i>USP47</i>	t	0.9277	-0.2731	0.0613	8.48E-06	0.7598	0.0493	0.0609	0.4186
rs2382297	<i>PTPRD</i>	t	0.3984	-0.1314	0.0295	8.61E-06	0.169	0.1408	0.0729	0.05323
rs11884682	<i>HS6ST1</i>	t	0.0129	0.6277	0.1415	9.20E-06	NA	NA	NA	NA
rs1476579	<i>CDK5RAP3</i>	c	0.2538	0.1357	0.0306	9.42E-06	0.27	-0.0385	0.0578	0.5057
rs12194134	<i>GRIK2</i>	a	0.6108	-0.1223	0.0277	9.81E-06	0.8572	0.1056	0.0689	0.1255
rs1155127	<i>GRIK2</i>	c	0.5168	0.1171	0.0265	9.90E-06	0.4039	-0.1002	0.0516	0.05209
rs12214154	<i>GRIK2</i>	t	0.3869	0.1233	0.0279	9.96E-06	0.1428	-0.1058	0.069	0.1253
rs2207004	<i>GRIK2</i>	t	0.6079	-0.1234	0.028	1.03E-05	0.8577	0.1114	0.0698	0.1104
rs12195907	<i>GRIK2</i>	a	0.6082	-0.1229	0.028	1.10E-05	0.8573	0.1085	0.0692	0.1171
rs4945837	<i>GRIK2</i>	a	0.4824	-0.1163	0.0265	1.11E-05	0.5971	0.1016	0.0515	0.04867
rs12524438	<i>GRIK2</i>	t	0.3972	0.1183	0.0269	1.12E-05	0.1432	-0.0946	0.0682	0.1657
rs11200848	<i>GHITM</i>	a	0.0712	0.27	0.0615	1.14E-05	0.2724	-0.0051	0.0604	0.9332
rs16910169	<i>USP47</i>	a	0.9315	-0.2366	0.0539	1.15E-05	0.7589	0.0519	0.0608	0.3939
rs9287545	<i>HS6ST1</i>	a	0.0129	0.6177	0.141	1.18E-05	0.1991	0.1392	0.0674	0.03885
rs9287546	<i>HS6ST1</i>	a	0.0129	0.6178	0.141	1.18E-05	0.199	0.1374	0.0674	0.04152
rs1414904	<i>TMEM56</i>	t	0.2906	0.1261	0.0288	1.22E-05	0.622	0.0469	0.0563	0.4049
rs8065669	<i>KPNB1</i>	a	0.4743	-0.1166	0.0266	1.22E-05	0.3623	0.0668	0.0557	0.2304
rs8072100	<i>NPEPPS</i>	a	0.4729	-0.1174	0.0268	1.22E-05	0.3603	0.0536	0.056	0.3385
rs4857506	<i>BDH1</i>	t	0.0522	-0.3473	0.0794	1.23E-05	0.3837	0.1194	0.0694	0.08539
rs6593594	<i>TMEM56</i>	t	0.2898	0.1255	0.0287	1.26E-05	0.6227	0.047	0.0564	0.4046
rs11870935	<i>KPNB1</i>	a	0.5286	0.1157	0.0265	1.31E-05	0.6377	-0.0694	0.0557	0.2131
rs7743559	<i>GRIK2</i>	t	0.4001	0.1176	0.027	1.31E-05	0.1427	-0.0927	0.068	0.1727
rs657820	<i>RICS</i>	c	0.7414	-0.1349	0.031	1.31E-05	0.7069	-0.0753	0.0558	0.1772
rs6899200	<i>ZNF608</i>	a	0.0337	0.4161	0.0956	1.35E-05	NA	NA	NA	NA
rs485238	<i>GRIK2</i>	a	0.5453	0.1195	0.0275	1.41E-05	0.3332	-0.133	0.0538	0.01347
rs11156274	<i>GRIK2</i>	a	0.6005	-0.1165	0.0269	1.46E-05	0.8561	0.0948	0.0683	0.1651
rs3768723	<i>RHOQ</i>	a	0.8056	0.1453	0.0336	1.53E-05	0.9559	0.1846	0.1105	0.09477
rs17035361	<i>RHOQ</i>	c	0.8055	0.1449	0.0335	1.56E-05	0.9564	0.2078	0.1105	0.05996
rs8025342	<i>MCTP2</i>	t	0.2762	0.1316	0.0305	1.59E-05	0.4451	-0.0536	0.0535	0.3167
rs3809868	<i>KPNB1</i>	a	0.528	0.1145	0.0265	1.62E-05	0.6385	-0.0727	0.0559	0.1932
rs11628693	<i>RPS29</i>	a	0.4338	-0.1141	0.0265	1.64E-05	0.5699	0.0059	0.0538	0.9127
rs7210738	<i>KPNB1</i>	a	0.5271	0.1145	0.0266	1.65E-05	0.6388	-0.0727	0.0559	0.1928
rs3118663	<i>REXO4</i>	a	0.4937	-0.1159	0.0269	1.69E-05	0.7126	-0.095	0.0611	0.1197
rs11165334	<i>TMEM56</i>	a	0.7104	-0.1222	0.0284	1.73E-05	0.3768	-0.0443	0.0562	0.4304
rs12452315	<i>CI7orf57</i>	a	0.5185	0.1166	0.0272	1.75E-05	0.7294	-0.0672	0.0607	0.2683
rs8072644	<i>NPEPPS</i>	a	0.492	-0.1171	0.0273	1.75E-05	0.4654	0.0282	0.0544	0.6038
rs11165336	<i>TMEM56</i>	t	0.7095	-0.1227	0.0286	1.76E-05	0.3769	-0.0475	0.0564	0.3994
rs523279	<i>GRIK2</i>	t	0.5075	-0.1168	0.0272	1.78E-05	0.7543	0.1089	0.0606	0.07223
rs9911944	<i>CI7orf57</i>	t	0.482	-0.1164	0.0271	1.80E-05	NA	NA	NA	NA
rs2965886	<i>CI6orf72</i>	a	0.7964	-0.1522	0.0355	1.84E-05	NA	NA	NA	NA
rs11165338	<i>TMEM56</i>	t	0.7095	-0.1224	0.0286	1.88E-05	0.3771	-0.0482	0.0564	0.3922
rs1060656	<i>RHOQ</i>	a	0.8079	0.1454	0.034	1.89E-05	0.9563	0.2048	0.1107	0.06432
rs3124776	<i>REXO4</i>	t	0.5134	0.1178	0.0276	1.91E-05	0.2877	0.096	0.0614	0.1179

rs4289035	<i>NPEPPS</i>	t	0.4929	-0.116	0.0271	1.92E-05	0.4674	0.0338	0.0541	0.5321
rs13136959	<i>HHIP</i>	t	0.9549	-0.2998	0.0702	1.94E-05	0.8916	0.1771	0.0799	0.0267
rs11871606	<i>KPNB1</i>	a	0.5101	0.1151	0.027	1.94E-05	0.5312	-0.0422	0.0541	0.4348
rs11079784	<i>NPEPPS</i>	t	0.4928	-0.1159	0.0272	1.99E-05	0.4658	0.024	0.0546	0.6593
rs10305700	<i>ARNT</i>	a	0.9855	0.8484	0.1989	2.00E-05	NA	NA	NA	NA
rs1981488	<i>GRIK2</i>	a	0.496	0.1112	0.0261	2.01E-05	0.2453	-0.1032	0.0602	0.08628
rs1137748	<i>RHOQ</i>	c	0.1925	-0.1448	0.034	2.01E-05	0.0437	-0.2049	0.1107	0.0641
rs6068880	<i>DOK5</i>	a	0.3685	-0.1355	0.0318	2.02E-05	0.3491	0.0682	0.0657	0.2993
rs8078880	<i>NPEPPS</i>	c	0.5076	0.1163	0.0273	2.03E-05	0.534	-0.027	0.0544	0.6192
rs2790539	<i>RPS29</i>	t	0.5585	0.1154	0.0271	2.03E-05	0.4376	-0.0066	0.0535	0.9022
rs7457887	<i>XRCC2</i>	t	0.2772	-0.1539	0.0361	2.06E-05	0.4201	-0.0133	0.0573	0.8165
rs3124782	<i>REXO4</i>	t	0.4935	-0.1155	0.0271	2.06E-05	0.6954	-0.0501	0.0593	0.3977
rs6756134	<i>RHOQ</i>	a	0.8072	0.1444	0.0339	2.06E-05	0.9563	0.2051	0.1107	0.06384
rs2223805	<i>GRIK2</i>	t	0.585	-0.1151	0.027	2.08E-05	0.8553	0.0918	0.0678	0.1759
rs9635762	<i>NPEPPS</i>	a	0.4922	-0.1161	0.0273	2.09E-05	0.4715	0.0658	0.0683	0.3354
rs17018847	<i>PPP2R5A</i>	a	0.1893	0.1518	0.0357	2.12E-05	0.4574	-0.0042	0.0511	0.9341
rs4793978	<i>NPEPPS</i>	a	0.5085	0.1158	0.0272	2.12E-05	0.5338	-0.026	0.0544	0.6323
rs16840284	<i>GREM2</i>	t	0.9118	-0.2236	0.0526	2.13E-05	0.7501	0.0373	0.0622	0.5492
rs12943464	<i>NPEPPS</i>	a	0.4923	-0.1159	0.0273	2.13E-05	0.4661	0.0261	0.0544	0.6308
rs1538619	<i>RPS29</i>	a	0.443	-0.1151	0.0271	2.14E-05	0.5631	0.0078	0.0536	0.8844
rs3735290	<i>OCM</i>	t	0.059	0.3214	0.0757	2.18E-05	0.1417	-0.2015	0.0898	0.02476
rs3760370	<i>NPEPPS</i>	t	0.5078	0.1157	0.0273	2.19E-05	0.5339	-0.0258	0.0544	0.6347
rs4945830	<i>GRIK2</i>	t	0.4599	-0.1107	0.0261	2.21E-05	0.6961	0.1335	0.0566	0.01828
rs859050	<i>CNN3</i>	a	0.3815	0.1207	0.0285	2.24E-05	0.3152	0.0516	0.0589	0.3811
rs7936477	<i>LOC390243</i>	c	0.8594	0.3428	0.0809	2.27E-05	0.8481	0.0466	0.1552	0.764
rs4239162	<i>KPNB1</i>	a	0.4904	-0.1141	0.0269	2.27E-05	0.467	0.0477	0.0543	0.3794
rs2905851	<i>CDK5RAP3</i>	a	0.7025	-0.1294	0.0306	2.28E-05	0.7302	0.0399	0.0579	0.49
rs12782210	<i>ZMIZ1</i>	t	0.0384	-0.4804	0.1135	2.31E-05	NA	NA	NA	NA
rs4239163	<i>KPNB1</i>	t	0.4907	-0.114	0.0269	2.33E-05	0.467	0.0477	0.0543	0.3793
rs12299465	<i>SLC15A4</i>	t	0.3692	0.1217	0.0288	2.35E-05	0.3265	-0.0143	0.0602	0.8122
rs6504872	<i>C17orf57</i>	t	0.4818	-0.1156	0.0273	2.36E-05	0.2703	0.0707	0.0609	0.2458
rs7544426	<i>AMPD2</i>	t	0.0528	-0.2638	0.0624	2.36E-05	0.353	0.017	0.0553	0.7582
rs1313546	<i>LOC440093</i>	a	0.3448	-0.1327	0.0314	2.38E-05	0.2985	-0.0055	0.0586	0.9249
rs16840296	<i>GREM2</i>	t	0.9117	-0.2239	0.053	2.38E-05	0.7465	0.038	0.0632	0.5477
rs2223806	<i>GRIK2</i>	t	0.4033	0.1133	0.0268	2.39E-05	0.1445	-0.0938	0.0702	0.1817
rs17009299	<i>ZNF659</i>	t	0.9623	0.3256	0.0771	2.40E-05	0.9603	0.022	0.1418	0.8766
rs16840294	<i>GREM2</i>	t	0.9116	-0.2233	0.0529	2.42E-05	0.7464	0.0356	0.0628	0.5713
rs729786	<i>CDK5RAP3</i>	t	0.2672	0.1275	0.0302	2.42E-05	0.2647	-0.0472	0.0586	0.4206
rs729785	<i>CDK5RAP3</i>	a	0.2674	0.1275	0.0302	2.42E-05	0.2648	-0.0474	0.0586	0.419
rs2597171	<i>CDK5RAP3</i>	t	0.2658	0.1292	0.0306	2.45E-05	0.265	-0.0485	0.0587	0.409
rs2597173	<i>CDK5RAP3</i>	t	0.7341	-0.129	0.0306	2.45E-05	0.7347	0.0474	0.0586	0.4186
rs2875746	<i>CDK5RAP3</i>	a	0.2658	0.129	0.0306	2.45E-05	0.2653	-0.0473	0.0586	0.4203
rs2525087	<i>CDK5RAP3</i>	a	0.734	-0.1291	0.0306	2.45E-05	0.735	0.0484	0.0587	0.4095
rs4794048	<i>KPNB1</i>	a	0.5285	0.1122	0.0266	2.49E-05	0.6402	-0.0727	0.0558	0.1923
rs2208332	<i>GRIK2</i>	a	0.4677	-0.1117	0.0265	2.51E-05	0.6681	0.1213	0.0531	0.02241
rs9322709	<i>GRIK2</i>	t	0.4693	-0.112	0.0266	2.53E-05	0.6709	0.1226	0.053	0.02068
rs2525088	<i>CDK5RAP3</i>	t	0.7342	-0.1286	0.0306	2.58E-05	0.7347	0.0538	0.0587	0.3595
rs11119891	<i>PPP2R5A</i>	a	0.1909	0.1493	0.0355	2.60E-05	0.459	-0.0094	0.051	0.8535

rs2597179	<i>CDK5RAP3</i>	c	0.7334	-0.1269	0.0302	2.61E-05	0.7352	0.0471	0.0586	0.4216
rs10143922	<i>RPS29</i>	t	0.5383	0.1163	0.0277	2.62E-05	0.4251	-0.0288	0.0671	0.6673
rs7308583	<i>TMEM16F</i>	t	0.9871	1.0404	0.2477	2.67E-05	NA	NA	NA	NA
rs2597174	<i>CDK5RAP3</i>	a	0.7345	-0.1283	0.0306	2.70E-05	0.7347	0.0474	0.0586	0.4184
rs1008965	<i>GRIK2</i>	t	0.46	-0.1095	0.0261	2.73E-05	0.6708	0.1183	0.0529	0.02528
rs10168498	<i>C2orf55</i>	t	0.1368	0.1764	0.0421	2.75E-05	0.0212	-0.0127	0.1796	0.9434
rs1953917	<i>RPS29</i>	t	0.5654	0.1125	0.0268	2.77E-05	0.4302	-0.0138	0.0538	0.7975
rs1806261	<i>RPAIN</i>	a	0.5937	-0.1154	0.0275	2.79E-05	0.0263	-0.1145	0.1536	0.4559
rs2905852	<i>CDK5RAP3</i>	t	0.2693	0.1251	0.0299	2.84E-05	0.27	-0.0385	0.0578	0.5058
rs2905850	<i>CDK5RAP3</i>	a	0.2697	0.1249	0.0298	2.84E-05	NA	NA	NA	NA
rs737130	<i>CDK5RAP3</i>	a	0.2701	0.1248	0.0298	2.84E-05	0.27	-0.0385	0.0578	0.5058
rs2784149	<i>KCNC4</i>	c	0.3073	-0.1397	0.0334	2.85E-05	0.4534	0.017	0.0548	0.7561
rs739853	<i>CDK5RAP3</i>	a	0.7295	-0.1245	0.0298	2.87E-05	0.7348	0.045	0.0586	0.4425

SNP Single nucleotide polymorphism, *EAF* Effect allele frequency

^a These results in European ancestry populations have been published previously by Wu et al.

^b Regression coefficient associated with one copy of the effect allele.

Supplemental Table 10 Replication of 18:0 related top SNPs with $P < 5 \times 10^{-6}$ identified in European ancestry populations ^a

SNP	Closest Gene	Effect allele	European ancestry populations				Chinese populations			
			EAF	Effect ^b	SE ^b	P^b	EAF	Effect ^b	SE ^b	P^b
rs102275	<i>C11orf10</i>	t	0.6776	0.1798	0.0193	1.33E-20	0.5937	0.1908	0.0434	1.12E-05
rs174537	<i>C11orf9</i>	t	0.3195	-0.1788	0.0193	2.17E-20	0.4047	-0.1874	0.0433	1.50E-05
rs174536	<i>C11orf9</i>	a	0.679	0.1776	0.0194	4.32E-20	0.5948	0.1897	0.0434	1.21E-05
rs174535	<i>C11orf9</i>	t	0.6788	0.1777	0.0194	4.33E-20	0.5946	0.19	0.0434	1.18E-05
rs174547	<i>FADS1</i>	t	0.6812	0.1773	0.0193	4.42E-20	0.5956	0.1857	0.0434	1.86E-05
rs174545	<i>FADS1</i>	c	0.6808	0.1771	0.0193	4.75E-20	0.5956	0.1857	0.0434	1.85E-05
rs174546	<i>FADS1</i>	t	0.3193	-0.1765	0.0193	5.49E-20	0.4042	-0.1844	0.0434	2.10E-05
rs174550	<i>FADS1</i>	t	0.6805	0.1755	0.0193	1.07E-19	0.5957	0.1857	0.0434	1.86E-05
rs174574	<i>FADS2</i>	a	0.3248	-0.1733	0.0194	3.69E-19	0.4058	-0.1852	0.0434	1.99E-05
rs1535	<i>FADS2</i>	a	0.6777	0.1719	0.0193	5.04E-19	0.5954	0.1848	0.0434	2.02E-05
rs174549	<i>FADS1</i>	a	0.2802	-0.1757	0.0198	6.57E-19	0.4044	-0.1841	0.043	1.82E-05
rs174576	<i>FADS2</i>	a	0.3319	-0.1735	0.0196	7.82E-19	0.4057	-0.1795	0.0433	3.34E-05
rs174577	<i>FADS2</i>	a	0.3324	-0.1732	0.0196	7.99E-19	0.4055	-0.1808	0.0433	3.00E-05
rs174583	<i>FADS2</i>	t	0.3365	-0.1734	0.0196	9.91E-19	0.5915	-0.2818	0.0964	0.00348
rs174578	<i>FADS2</i>	a	0.3341	-0.1731	0.0196	1.17E-18	0.4055	-0.1813	0.0433	2.86E-05
rs174541	<i>FADS1</i>	t	0.6578	0.1711	0.0194	1.19E-18	0.5954	0.1865	0.0434	1.74E-05
rs174548	<i>FADS1</i>	c	0.7186	0.1731	0.0197	1.61E-18	0.5956	0.1841	0.043	1.82E-05
rs6675668	<i>ALG14</i>	t	0.4898	-0.1651	0.0189	2.16E-18	0.8177	-0.031	0.0511	0.5434
rs4246215	<i>FEN1</i>	t	0.3417	-0.1697	0.0194	2.24E-18	0.4035	-0.1831	0.0434	2.46E-05
rs174555	<i>FADS1</i>	t	0.7186	0.1722	0.0197	2.36E-18	0.5958	0.1834	0.043	1.95E-05
rs6687388	<i>ALG14</i>	t	0.4388	0.1671	0.0192	2.88E-18	0.1819	0.0288	0.0511	0.5725
rs174556	<i>FADS1</i>	t	0.2813	-0.1695	0.0195	4.19E-18	0.4003	-0.1772	0.043	3.77E-05
rs10874902	<i>ALG14</i>	a	0.5689	-0.1704	0.0197	4.60E-18	0.8183	-0.029	0.0511	0.5706
rs2391388	<i>ALG14</i>	a	0.5421	0.1592	0.0185	6.80E-18	0.1789	0.0365	0.0513	0.4768
rs10735790	<i>ALG14</i>	t	0.4399	0.1646	0.0191	7.24E-18	0.1734	0.0291	0.0532	0.5843
rs11585462	<i>ALG14</i>	a	0.4356	0.1673	0.0195	8.61E-18	0.182	0.0281	0.051	0.5819
rs4339907	<i>ALG14</i>	a	0.4409	0.1675	0.0196	1.17E-17	0.1817	0.0284	0.0512	0.5792
rs7537374	<i>ALG14</i>	a	0.4994	0.1578	0.0185	1.37E-17	0.179	0.0387	0.0513	0.4505
rs174601	<i>FADS2</i>	t	0.366	-0.1832	0.0216	2.06E-17	0.4118	-0.2025	0.0452	7.39E-06
rs11591183	<i>TMEM56</i>	t	0.5779	-0.1574	0.0186	2.18E-17	0.8195	-0.0323	0.051	0.5268
rs12741128	<i>TMEM56</i>	t	0.4168	0.1581	0.0187	2.56E-17	0.1783	0.0349	0.0521	0.5028
rs12569207	<i>ALG14</i>	a	0.4225	0.1568	0.0185	2.64E-17	0.181	0.0315	0.0509	0.5354
rs4630159	<i>ALG14</i>	t	0.4265	0.1621	0.0192	2.81E-17	0.1819	0.0291	0.0506	0.5657
rs4949965	<i>ALG14</i>	a	0.5764	-0.1572	0.0186	3.07E-17	0.8185	-0.0296	0.0508	0.5597
rs6687450	<i>ALG14</i>	t	0.4239	0.16	0.0189	3.10E-17	0.1664	0.0388	0.0551	0.4815
rs4390223	<i>ALG14</i>	t	0.5776	-0.1561	0.0185	3.33E-17	0.819	-0.0316	0.0509	0.5339
rs9437812	<i>ALG14</i>	a	0.577	-0.1605	0.0191	3.86E-17	0.8184	-0.0295	0.0507	0.5605
rs4950058	<i>ALG14</i>	t	0.5781	-0.1601	0.019	4.15E-17	0.8184	-0.0295	0.0507	0.5604
rs2797623	<i>ALG14</i>	a	0.4942	-0.1542	0.0184	5.53E-17	0.847	-0.0542	0.0562	0.3346
rs7547662	<i>ALG14</i>	t	0.4943	-0.1534	0.0184	7.12E-17	0.8344	-0.0464	0.0547	0.3968
rs7533303	<i>ALG14</i>	t	0.5024	0.1523	0.0183	7.98E-17	0.1777	0.0414	0.0524	0.4294
rs4847220	<i>ALG14</i>	a	0.4277	0.1558	0.0187	8.00E-17	0.1746	0.0406	0.0526	0.4397
rs6698046	<i>ALG14</i>	a	0.4278	0.1533	0.0186	1.61E-16	0.1537	0.0414	0.0549	0.4515
rs174528	<i>C11orf9</i>	t	0.6389	0.1601	0.0195	2.38E-16	0.5885	0.1941	0.0434	7.77E-06
rs2797622	<i>ALG14</i>	a	0.5721	-0.1518	0.0185	2.54E-16	0.8476	-0.0535	0.0563	0.3416

rs2766010	<i>ALG14</i>	t	0.5724	-0.1508	0.0184	3.02E-16	0.8488	-0.0514	0.0563	0.3611
rs174538	<i>C11orf10</i>	a	0.2876	-0.1669	0.0206	4.87E-16	0.4048	-0.1872	0.0434	1.59E-05
rs6671200	<i>RWDD3</i>	a	0.0884	-0.2461	0.0309	1.76E-15	NA	NA	NA	NA
rs10493880	<i>ALG14</i>	t	0.4305	0.1482	0.0186	1.81E-15	0.2233	-0.0227	0.0482	0.6377
rs6678964	<i>RWDD3</i>	a	0.0891	-0.2441	0.0309	2.69E-15	NA	NA	NA	NA
rs259357	<i>RWDD3</i>	t	0.912	0.2456	0.0311	2.79E-15	NA	NA	NA	NA
rs259350	<i>RWDD3</i>	c	0.9086	0.2456	0.0312	3.15E-15	NA	NA	NA	NA
rs9437689	<i>ALG14</i>	t	0.4517	0.1529	0.0195	3.92E-15	0.1828	0.0309	0.0509	0.5429
rs259346	<i>RWDD3</i>	a	0.0879	-0.2533	0.0323	4.68E-15	NA	NA	NA	NA
rs12755552	<i>RWDD3</i>	a	0.9085	0.2401	0.0309	8.12E-15	NA	NA	NA	NA
rs10747468	<i>RWDD3</i>	t	0.0915	-0.2389	0.0309	1.07E-14	NA	NA	NA	NA
rs933107	<i>TMEM56</i>	t	0.908	0.2364	0.0307	1.32E-14	NA	NA	NA	NA
rs12749053	<i>TMEM56</i>	a	0.908	0.2361	0.0307	1.33E-14	NA	NA	NA	NA
rs11165339	<i>TMEM56</i>	t	0.0917	-0.2368	0.0308	1.38E-14	NA	NA	NA	NA
rs860873	<i>CNN3</i>	a	0.4385	0.1472	0.0193	2.19E-14	0.1666	0.0189	0.0549	0.7305
rs2766005	<i>ALG14</i>	a	0.4328	-0.1381	0.0181	2.45E-14	0.8631	-0.0619	0.0588	0.2922
rs2391391	<i>ALG14</i>	a	0.2815	-0.1516	0.0205	1.26E-13	0.2424	0.0579	0.0473	0.2204
rs1146461	<i>CNN3</i>	a	0.5761	-0.1372	0.0188	2.98E-13	0.8822	-0.0601	0.0642	0.3492
rs2298162	<i>ALG14</i>	t	0.6324	0.1358	0.0186	3.14E-13	0.2426	0.0314	0.0468	0.5013
rs1265169	<i>CNN3</i>	c	0.4314	0.1382	0.019	3.52E-13	0.1176	0.0615	0.0646	0.3412
rs2797616	<i>ALG14</i>	t	0.526	-0.131	0.0184	9.96E-13	0.8611	-0.0634	0.0592	0.2845
rs6674604	<i>ALG14</i>	a	0.1938	-0.1646	0.0232	1.19E-12	0.145	0.1274	0.0582	0.0286
rs6671842	<i>ALG14</i>	t	0.1951	-0.1638	0.0231	1.21E-12	0.1901	0.1049	0.0618	0.08961
rs174534	<i>C11orf9</i>	a	0.6725	0.1444	0.0203	1.26E-12	0.5902	0.1941	0.0431	6.64E-06
rs108499	<i>C11orf9</i>	t	0.3291	-0.1453	0.0205	1.29E-12	0.4119	-0.1921	0.0432	8.55E-06
rs12760863	<i>ALG14</i>	a	0.1989	-0.17	0.024	1.29E-12	0.1449	0.1384	0.0585	0.018
rs11165297	<i>ALG14</i>	a	0.1904	-0.1694	0.024	1.57E-12	0.1452	0.1295	0.0583	0.02631
rs6698894	<i>ALG14</i>	t	0.8072	0.1665	0.0236	1.68E-12	NA	NA	NA	NA
rs7540821	<i>ALG14</i>	a	0.8021	0.1632	0.0231	1.76E-12	0.8513	-0.1128	0.0571	0.0483
rs12751633	<i>ALG14</i>	t	0.8007	0.1629	0.0231	1.96E-12	0.8513	-0.1131	0.0571	0.04749
rs859044	<i>CNN3</i>	a	0.3135	0.1446	0.0207	3.04E-12	0.2084	0.018	0.0578	0.755
rs11165305	<i>TMEM56</i>	a	0.4032	-0.1362	0.0196	3.90E-12	0.6446	-0.0235	0.0467	0.6149
rs859046	<i>CNN3</i>	t	0.3171	0.1395	0.0201	4.40E-12	0.1952	0.0195	0.0509	0.7017
rs2040048	<i>CNN3</i>	a	0.5609	0.1273	0.0184	4.97E-12	0.6804	0.0099	0.0431	0.8179
rs6672436	<i>TMEM56</i>	t	0.4102	-0.133	0.0193	5.13E-12	0.6405	-0.0568	0.0415	0.1714
rs6665763	<i>TMEM56</i>	t	0.4073	-0.1298	0.0189	6.02E-12	0.6387	-0.0562	0.0411	0.1711
rs12562716	<i>TMEM56</i>	a	0.5915	0.1329	0.0194	6.75E-12	0.3593	0.0569	0.0416	0.1712
rs4619020	<i>TMEM56</i>	t	0.4077	-0.1333	0.0194	6.87E-12	0.6409	-0.057	0.0416	0.171
rs6666037	<i>RWDD3</i>	t	0.9242	0.2604	0.038	7.36E-12	NA	NA	NA	NA
rs11165281	<i>ALG14</i>	t	0.1658	-0.1678	0.0245	7.73E-12	0.1818	-0.1086	0.052	0.03676
rs6672045	<i>ALG14</i>	t	0.8362	0.1697	0.0248	8.60E-12	NA	NA	NA	NA
rs3753872	<i>RWDD3</i>	t	0.1312	-0.183	0.0268	9.15E-12	0.2566	-0.0719	0.0456	0.1148
rs4128898	<i>TMEM56</i>	c	0.4083	-0.1326	0.0195	9.43E-12	0.6417	-0.0573	0.0418	0.17
rs11590106	<i>ALG14</i>	a	0.7641	0.1507	0.0221	9.77E-12	0.8549	-0.1255	0.0582	0.03096
rs2296308	<i>RWDD3</i>	t	0.1302	-0.183	0.0269	9.80E-12	0.2465	-0.0718	0.0455	0.1148
rs2147587	<i>RWDD3</i>	a	0.8698	0.183	0.0269	9.83E-12	0.7453	0.0564	0.046	0.2202
rs7528790	<i>RWDD3</i>	a	0.1305	-0.1831	0.0269	1.00E-11	0.2465	-0.072	0.0455	0.1136
rs12092678	<i>ALG14</i>	t	0.8267	0.1638	0.0242	1.30E-11	0.9197	0.0612	0.0751	0.4145

rs4131811	<i>ALG14</i>	t	0.2364	-0.1495	0.0221	1.34E-11	0.1488	0.1135	0.0573	0.04764
rs1146460	<i>CNN3</i>	t	0.5328	-0.1236	0.0184	1.83E-11	0.4745	-0.0198	0.0402	0.6224
rs12755096	<i>ALG14</i>	a	0.7638	0.1549	0.0232	2.41E-11	0.8548	-0.1353	0.0584	0.02053
rs1271952	<i>CNN3</i>	t	0.4668	0.1215	0.0183	3.21E-11	0.5257	0.0293	0.0402	0.4655
rs13375406	<i>TMEM56</i>	c	0.0922	-0.2113	0.0323	5.86E-11	NA	NA	NA	NA
rs2727270	<i>FADS2</i>	t	0.1097	-0.1775	0.0273	7.74E-11	0.3148	-0.166	0.0451	0.000232
rs2727271	<i>FADS2</i>	a	0.8902	0.1768	0.0273	8.97E-11	0.6852	0.166	0.0451	0.000232
rs4950077	<i>TMEM56</i>	a	0.6419	-0.1225	0.0192	1.75E-10	0.8405	-0.0537	0.0561	0.3386
rs174575	<i>FADS2</i>	c	0.7483	0.1396	0.022	2.05E-10	0.8819	0.0869	0.0668	0.1935
rs2072114	<i>FADS2</i>	a	0.8844	0.1672	0.0265	2.58E-10	0.6855	0.1646	0.045	0.000258
rs1023330	<i>TMEM56</i>	t	0.3584	0.1213	0.0192	2.61E-10	0.1476	0.0642	0.0572	0.2622
rs2524299	<i>FADS2</i>	a	0.8882	0.1671	0.0269	4.88E-10	0.6851	0.1658	0.045	0.000232
rs6697256	<i>TMEM56</i>	a	0.1513	-0.1612	0.026	5.95E-10	0.394	-0.0181	0.0406	0.6565
rs6680551	<i>TMEM56</i>	a	0.1514	-0.154	0.0251	8.61E-10	0.393	-0.0197	0.0405	0.6272
rs11589700	<i>ALG14</i>	t	0.1037	-0.1781	0.0294	1.33E-09	NA	NA	NA	NA
rs1132	<i>CNN3</i>	a	0.4865	-0.1162	0.0194	2.23E-09	0.4752	-0.0196	0.0405	0.6281
rs684448	<i>RWDD3</i>	t	0.1747	-0.1404	0.0235	2.31E-09	0.1706	0.0634	0.0536	0.2363
rs11586384	<i>ALG14</i>	a	0.1025	-0.1861	0.0312	2.33E-09	NA	NA	NA	NA
rs859040	<i>CNN3</i>	t	0.1501	-0.1498	0.0252	2.60E-09	0.5247	-0.0301	0.0403	0.4558
rs11119805	<i>LPGAT1</i>	a	0.1226	-0.1678	0.0282	2.80E-09	0.1453	-0.0552	0.0543	0.31
rs174602	<i>FADS2</i>	t	0.8002	0.2071	0.035	3.25E-09	0.7207	0.2525	0.0615	4.05E-05
rs1803468	<i>LPGAT1</i>	a	0.1219	-0.1703	0.0289	3.68E-09	0.1712	-0.0512	0.0511	0.317
rs174570	<i>FADS2</i>	t	0.1273	-0.1622	0.0276	4.01E-09	0.4014	-0.1807	0.0434	3.08E-05
rs11801110	<i>ALG14</i>	t	0.1469	-0.1541	0.0263	4.87E-09	0.1012	0.1529	0.0662	0.02094
rs12739445	<i>ALG14</i>	c	0.0984	-0.1952	0.0334	5.16E-09	NA	NA	NA	NA
rs12121773	<i>LPGAT1</i>	t	0.1261	-0.164	0.0281	5.19E-09	0.1706	-0.0511	0.051	0.3162
rs10783010	<i>RWDD3</i>	a	0.1767	-0.1395	0.0239	5.23E-09	NA	NA	NA	NA
rs864553	<i>CNN3</i>	c	0.1483	-0.1545	0.0265	5.46E-09	0.524	-0.0294	0.0408	0.4711
rs12751061	<i>ALG14</i>	a	0.8993	0.1902	0.0327	5.83E-09	NA	NA	NA	NA
rs10465759	<i>ALG14</i>	t	0.8525	0.1488	0.0256	5.85E-09	0.8985	-0.1295	0.0658	0.049
rs6684137	<i>ALG14</i>	a	0.1457	-0.1562	0.0268	5.86E-09	0.1012	0.1547	0.0665	0.01996
rs174591	<i>FADS2</i>	a	0.2785	-0.1354	0.0233	6.02E-09	0.1142	-0.1015	0.069	0.1412
rs1415564	<i>RWDD3</i>	t	0.1793	-0.1394	0.024	6.03E-09	0.1693	0.0639	0.0553	0.2476
rs4387224	<i>ALG14</i>	t	0.8536	0.1526	0.0263	6.30E-09	0.8988	-0.1531	0.0662	0.02079
rs767015	<i>CNN3</i>	t	0.4907	-0.1105	0.019	6.41E-09	0.4743	-0.0209	0.0403	0.6037
rs12046116	<i>LPGAT1</i>	c	0.1254	-0.1661	0.0287	7.40E-09	0.1716	-0.0504	0.0509	0.3222
rs6674467	<i>ALG14</i>	a	0.144	-0.1562	0.027	7.45E-09	0.1015	0.1393	0.066	0.03469
rs6678809	<i>ALG14</i>	c	0.8535	0.153	0.0265	7.66E-09	0.8988	-0.1533	0.0663	0.02073
rs3890785	<i>ALG14</i>	t	0.8543	0.1524	0.0264	7.72E-09	0.8988	-0.1529	0.0662	0.02091
rs12023263	<i>LPGAT1</i>	t	0.1253	-0.1646	0.0287	9.87E-09	0.1713	-0.0483	0.051	0.343
rs6667676	<i>ALG14</i>	a	0.3552	-0.1101	0.0195	1.53E-08	0.2299	-0.0557	0.0482	0.2478
rs11119810	<i>LPGAT1</i>	a	0.1259	-0.1627	0.0288	1.59E-08	0.1714	-0.0497	0.051	0.3295
rs12126561	<i>LPGAT1</i>	c	0.8742	0.1627	0.0288	1.59E-08	0.8286	0.0496	0.0509	0.3303
rs1246351	<i>CNN3</i>	a	0.4686	-0.1051	0.0187	1.77E-08	0.3745	-0.0148	0.0415	0.7214
rs7543042	<i>RWDD3</i>	t	0.8874	0.1772	0.032	3.17E-08	0.7579	0.0779	0.0462	0.09144
rs17042024	<i>LPGAT1</i>	t	0.8994	0.1689	0.0309	4.73E-08	0.8637	0.0516	0.0554	0.3516
rs2845573	<i>FADS2</i>	a	0.9259	0.1786	0.0328	5.07E-08	0.6875	0.1727	0.0458	0.000166
rs2851682	<i>FADS2</i>	a	0.9216	0.1718	0.032	8.14E-08	0.6893	0.177	0.0453	9.20E-05

rs2298095	<i>LPGAT1</i>	t	0.1007	-0.1612	0.0301	8.29E-08	0.1359	-0.0522	0.0552	0.3442
rs12566620	<i>LPGAT1</i>	t	0.9005	0.1665	0.0312	9.63E-08	0.8642	0.0513	0.0553	0.3529
rs422249	<i>FADS3</i>	t	0.329	-0.1071	0.0202	1.09E-07	0.061	-0.2503	0.1104	0.0234
rs6687351	<i>ALG14</i>	a	0.1876	-0.1351	0.0254	1.09E-07	0.1012	0.1545	0.0665	0.02007
rs2526678	<i>FADS2</i>	a	0.0743	-0.185	0.0348	1.10E-07	0.3195	-0.1854	0.0483	0.000126
rs17018028	<i>LPGAT1</i>	t	0.0964	-0.1726	0.0326	1.19E-07	0.1356	-0.0506	0.0552	0.3593
rs6662345	<i>ALG14</i>	t	0.1878	-0.1346	0.0254	1.20E-07	0.1012	0.1546	0.0665	0.02002
rs12129315	<i>LPGAT1</i>	a	0.8968	0.164	0.031	1.24E-07	0.8658	0.0487	0.0553	0.3784
rs6679106	<i>ALG14</i>	a	0.8126	0.1346	0.0255	1.24E-07	0.8988	-0.1545	0.0665	0.02008
rs12565318	<i>LPGAT1</i>	a	0.8971	0.1638	0.031	1.26E-07	0.8659	0.0488	0.0553	0.3777
rs12565546	<i>LPGAT1</i>	a	0.1026	-0.1637	0.031	1.28E-07	0.135	-0.0476	0.0553	0.3886
rs12145721	<i>LPGAT1</i>	t	0.0998	-0.1587	0.0301	1.29E-07	0.1346	-0.048	0.0553	0.3847
rs12138283	<i>LPGAT1</i>	a	0.1026	-0.1652	0.0313	1.30E-07	0.1352	-0.0469	0.0552	0.3957
rs11119814	<i>LPGAT1</i>	a	0.8972	0.1648	0.0312	1.31E-07	0.8657	0.0482	0.0553	0.3828
rs12125042	<i>LPGAT1</i>	a	0.8972	0.1648	0.0312	1.31E-07	0.8657	0.0484	0.0553	0.3815
rs11119816	<i>LPGAT1</i>	a	0.9003	0.1597	0.0303	1.37E-07	0.8664	0.0495	0.0553	0.3701
rs12564498	<i>LPGAT1</i>	t	0.9004	0.1641	0.0312	1.39E-07	0.8656	0.0481	0.0553	0.3845
rs12136792	<i>LPGAT1</i>	t	0.9003	0.16	0.0304	1.41E-07	0.8654	0.0486	0.0553	0.3797
rs12123135	<i>LPGAT1</i>	a	0.9001	0.164	0.0312	1.45E-07	0.8647	0.0469	0.0552	0.3957
rs12562791	<i>LPGAT1</i>	c	0.9	0.1586	0.0302	1.46E-07	0.8655	0.0487	0.0553	0.3779
rs4132401	<i>LPGAT1</i>	c	0.9003	0.1588	0.0302	1.46E-07	0.8663	0.0499	0.0553	0.3664
rs12123889	<i>LPGAT1</i>	t	0.0979	-0.1703	0.0324	1.48E-07	0.1356	-0.0506	0.0552	0.3597
rs17018048	<i>LPGAT1</i>	a	0.0977	-0.1704	0.0324	1.48E-07	0.1356	-0.0506	0.0552	0.3596
rs1065607	<i>LPGAT1</i>	t	0.8999	0.1639	0.0312	1.51E-07	0.8656	0.0481	0.0553	0.3843
rs1887094	<i>CNN3</i>	c	0.5414	0.0981	0.0188	1.72E-07	0.7372	0.0058	0.0459	0.8998
rs4615892	<i>ALG14</i>	t	0.1744	-0.1249	0.0239	1.77E-07	0.1014	0.1571	0.0661	0.01742
rs1265168	<i>CNN3</i>	t	0.8266	0.1333	0.0256	1.90E-07	0.76	0.0596	0.0477	0.2117
rs7417186	<i>ALG14</i>	t	0.174	-0.1243	0.0239	1.92E-07	0.1014	0.1573	0.0661	0.01723
rs1414904	<i>TMEM56</i>	t	0.2876	-0.1035	0.0202	3.15E-07	0.6221	-0.0639	0.0422	0.1297
rs174449	<i>FADS3</i>	a	0.6392	0.0969	0.019	3.32E-07	0.7418	0.0947	0.0474	0.04593
rs742614	<i>CHMP4B</i>	a	0.4391	-0.095	0.0186	3.37E-07	0.4131	0.0089	0.0421	0.8322
rs174448	<i>FADS3</i>	a	0.6398	0.0971	0.0191	3.53E-07	0.7841	0.0843	0.052	0.1049
rs6593594	<i>TMEM56</i>	t	0.2869	-0.1024	0.0201	3.65E-07	0.6224	-0.0619	0.0422	0.1419
rs11165334	<i>TMEM56</i>	a	0.7133	0.1011	0.0199	4.00E-07	0.377	0.0634	0.0421	0.1319
rs12123355	<i>LPGAT1</i>	a	0.908	0.1635	0.0323	4.20E-07	0.8744	0.0372	0.0583	0.5232
rs11165336	<i>TMEM56</i>	t	0.7128	0.1009	0.02	4.80E-07	0.3774	0.0632	0.0421	0.1333
rs11165338	<i>TMEM56</i>	t	0.7127	0.1006	0.0201	5.34E-07	0.3776	0.0627	0.0421	0.1365
rs12239887	<i>ALG14</i>	a	0.2163	-0.1176	0.0237	7.08E-07	NA	NA	NA	NA
rs4364936	<i>LPGAT1</i>	t	0.8911	0.1486	0.0301	8.16E-07	0.8657	0.0546	0.0556	0.3264
rs10874924	<i>RWDD3</i>	t	0.4448	-0.0941	0.0192	9.18E-07	0.4046	2.00E-04	0.0432	0.9963
rs174579	<i>FADS2</i>	t	0.2203	-0.1152	0.0238	1.23E-06	0.113	-0.0876	0.0674	0.1941
rs736264	<i>CHMP4B</i>	t	0.4607	-0.0886	0.0183	1.26E-06	0.4147	0.0106	0.0416	0.799
rs11590093	<i>ALG14</i>	a	0.1382	-0.1385	0.0287	1.36E-06	NA	NA	NA	NA
rs11120822	<i>CAMTA1</i>	c	0.3731	0.0931	0.0193	1.44E-06	0.553	0.0449	0.0423	0.2891
rs4436414	<i>CAMTA1</i>	a	0.3932	0.0903	0.0189	1.85E-06	0.5545	0.0466	0.0412	0.2586
rs11807661	<i>CNN3</i>	a	0.8585	0.1254	0.0263	1.86E-06	NA	NA	NA	NA
rs7414485	<i>CAMTA1</i>	a	0.3934	0.0901	0.0189	1.89E-06	0.554	0.0469	0.0412	0.255
rs174532	<i>C11orf9</i>	a	0.314	0.1142	0.0241	2.11E-06	NA	NA	NA	NA

rs6057930	<i>CHMP4B</i>	t	0.5429	0.086	0.0181	2.15E-06	0.583	-0.0121	0.0411	0.7692
rs6057929	<i>CHMP4B</i>	a	0.4568	-0.0857	0.0182	2.38E-06	0.4163	0.0101	0.0411	0.8063
rs6057924	<i>CHMP4B</i>	t	0.454	-0.0852	0.0184	3.52E-06	0.4033	0.0152	0.0412	0.7127
rs4555772	<i>GCNT4</i>	a	0.6084	0.0888	0.0192	3.93E-06	0.5948	0.0236	0.0414	0.5686
rs12098564	<i>GRID1</i>	a	0.9822	-0.435	0.0944	4.07E-06	NA	NA	NA	NA
rs412334	<i>FEN1</i>	t	0.1591	0.1413	0.0307	4.08E-06	NA	NA	NA	NA
rs16949516	<i>MCTP2</i>	t	0.9427	-0.2015	0.0438	4.12E-06	0.9706	0.142	0.1138	0.212
rs12440212	<i>MCTP2</i>	a	0.9436	-0.2101	0.0456	4.15E-06	0.9699	0.1428	0.1134	0.2082
rs174585	<i>FADS2</i>	a	0.2223	-0.114	0.0248	4.36E-06	0.1169	-0.0992	0.0684	0.1468
rs12442726	<i>MCTP2</i>	t	0.9433	-0.2105	0.0458	4.37E-06	0.9696	0.1374	0.1134	0.2257
rs16949491	<i>MCTP2</i>	a	0.0565	0.2101	0.0457	4.38E-06	0.0304	-0.1387	0.1134	0.2215
rs12134748	<i>RWDD3</i>	a	0.5065	0.0868	0.0189	4.45E-06	0.4925	-0.0473	0.0422	0.2621
rs7550711	<i>GPR61</i>	t	0.0301	0.2743	0.0601	4.94E-06	NA	NA	NA	NA
rs12386586	<i>PLXNA4</i>	c	0.917	-0.1762	0.0387	5.35E-06	0.9667	0.0621	0.1122	0.5799
rs7700719	<i>GCNT4</i>	a	0.5037	0.0885	0.0195	5.75E-06	0.2872	0.0164	0.0485	0.7351
rs174589	<i>FADS2</i>	c	0.7835	0.1111	0.0246	6.08E-06	0.8889	0.0998	0.0688	0.147
rs174455	<i>FADS3</i>	a	0.6383	0.0866	0.0192	6.27E-06	0.6894	0.1106	0.0451	0.01416
rs12386585	<i>PLXNA4</i>	c	0.917	-0.1749	0.0387	6.37E-06	0.9666	0.0621	0.1124	0.5805
rs4531856	<i>JUND</i>	t	0.6443	-0.0927	0.0206	6.69E-06	0.796	0.0596	0.05	0.2331
rs2198309	<i>AGBL1</i>	t	0.9866	0.6092	0.1355	6.88E-06	NA	NA	NA	NA
rs12665473	<i>LOC389435</i>	t	0.2228	0.1031	0.023	7.09E-06	0.1269	0.06	0.0614	0.329
rs4703642	<i>GCNT4</i>	a	0.4601	0.0822	0.0184	7.69E-06	0.2528	0.0249	0.0475	0.5999
rs12724564	<i>INTS7</i>	a	0.1022	-0.1354	0.0303	8.02E-06	0.1232	-0.0187	0.0591	0.7523
rs9871800	<i>SLC4A7</i>	a	0.0286	0.3385	0.0759	8.24E-06	NA	NA	NA	NA
rs4392602	<i>GCNT4</i>	t	0.5406	-0.0818	0.0184	8.38E-06	0.747	-0.0252	0.0476	0.5969
rs9787424	<i>PNLIPRP2</i>	a	0.6015	-0.0884	0.0199	9.12E-06	0.7251	-0.1227	0.046	0.00759
rs968567	<i>FADS2</i>	t	0.1624	-0.1101	0.0248	9.22E-06	NA	NA	NA	NA
rs12735358	<i>INTS7</i>	a	0.0992	-0.1383	0.0312	9.40E-06	0.1197	-0.0227	0.0614	0.7117
rs273506	<i>MAST3</i>	t	0.4395	0.0863	0.0195	9.59E-06	0.3354	0.057	0.0435	0.1899
rs4074964	<i>CAMTA1</i>	a	0.7233	-0.0907	0.0205	9.77E-06	0.689	-0.0731	0.0432	0.09044
rs4254438	<i>JUND</i>	t	0.3584	-0.0852	0.0193	9.92E-06	0.3866	-0.0126	0.04	0.7523
rs870985	<i>RWDD3</i>	t	0.4274	-0.082	0.0186	9.99E-06	0.4085	0.0415	0.0424	0.3273
rs12608504	<i>JUND</i>	a	0.373	0.0866	0.0196	1.02E-05	0.2045	-0.059	0.0497	0.2357
rs12755326	<i>TMEM56</i>	a	0.181	-0.1036	0.0235	1.05E-05	0.0733	0.1564	0.0788	0.04707
rs7474885	<i>GRID1</i>	a	0.0173	0.4032	0.0916	1.08E-05	NA	NA	NA	NA
rs12239725	<i>TMEM56</i>	a	0.819	0.1034	0.0235	1.10E-05	0.9257	-0.1634	0.0793	0.03939
rs1637053	<i>CDCA7L</i>	t	0.4617	-0.0935	0.0213	1.10E-05	0.3213	0.0227	0.0576	0.6935
rs2186090	<i>CAMTA1</i>	t	0.2971	0.0899	0.0205	1.15E-05	0.3477	0.0459	0.0424	0.2794
rs7525119	<i>CAMTA1</i>	t	0.297	0.0898	0.0205	1.17E-05	0.3465	0.048	0.0422	0.2554
rs1053538	<i>TNRC5</i>	c	0.504	-0.0807	0.0184	1.20E-05	0.7186	-0.0084	0.0447	0.8503
rs9324353	<i>RWDD3</i>	a	0.4281	-0.0814	0.0186	1.20E-05	0.4097	0.0413	0.0423	0.3279
rs6700922	<i>CAMTA1</i>	a	0.2302	0.1017	0.0232	1.22E-05	0.5507	-0.0136	0.0416	0.7445
rs6941212	<i>TNRC5</i>	t	0.5422	-0.0798	0.0183	1.24E-05	0.8943	-0.023	0.0624	0.712
rs10157405	<i>TMEM56</i>	t	0.8191	0.1026	0.0235	1.25E-05	0.9262	-0.1604	0.0785	0.04114
rs1339911	<i>GRID1</i>	t	0.0173	0.3947	0.0904	1.27E-05	NA	NA	NA	NA
rs1075403	<i>KIAA1683</i>	t	0.3734	0.0871	0.02	1.32E-05	0.2051	-0.0748	0.0537	0.164
rs12783584	<i>PNLIPRP2</i>	t	0.5893	-0.09	0.0207	1.32E-05	0.7119	-0.1151	0.0456	0.0116
rs3890845	<i>ALG14</i>	t	0.6411	0.0875	0.0201	1.35E-05	0.283	0.0937	0.0449	0.03677

rs4704183	<i>GCNT4</i>	c	0.6505	0.083	0.0191	1.35E-05	0.5374	0.0497	0.04	0.214
rs10746465	<i>CAMTA1</i>	a	0.3037	0.089	0.0205	1.37E-05	0.3005	0.0439	0.0446	0.3251
rs3763236	<i>TNRC5</i>	t	0.504	-0.0801	0.0184	1.37E-05	0.7183	-0.0113	0.0445	0.7999
rs11086102	<i>JUND</i>	c	0.6258	-0.0857	0.0197	1.38E-05	0.7947	0.0633	0.0499	0.2038
rs28104	<i>CAST</i>	t	0.1043	-0.1544	0.0356	1.48E-05	0.2936	-0.0127	0.0458	0.7824
rs12134529	<i>INTS7</i>	a	0.1029	-0.1308	0.0302	1.51E-05	0.1232	-0.0182	0.0591	0.7583
rs6113592	<i>FOXA2</i>	a	0.6182	0.0853	0.0198	1.58E-05	0.7486	0.0097	0.0449	0.8284
rs10510024	<i>PNLIPRP2</i>	c	0.4292	0.0854	0.0198	1.59E-05	0.6713	0.0074	0.0449	0.8688
rs6601299	<i>PPP1R3B</i>	t	0.0932	-0.1309	0.0303	1.59E-05	NA	NA	NA	NA
rs7327257	<i>UGCGL2</i>	t	0.0212	-0.3895	0.0904	1.63E-05	0.1468	-0.0936	0.0555	0.09167
rs6047978	<i>FOXA2</i>	a	0.6196	0.0852	0.0198	1.64E-05	0.752	0.011	0.0447	0.8047
rs10157254	<i>TMEM56</i>	a	0.8111	0.1017	0.0236	1.70E-05	0.9265	-0.1563	0.0786	0.04674
rs7736223	<i>GCNT4</i>	t	0.5546	-0.0798	0.0186	1.82E-05	0.7469	-0.0254	0.0476	0.5943

SNP Single nucleotide polymorphism, EAF Effect allele frequency

^a These results in European ancestry populations have been published previously by Wu et al.

^b Regression coefficient associated with one copy of the effect allele.

Supplemental Table 11 Associations with lipid profiles in the NHAPC study

Lipids (mmol/L)	rs11589386		rs11042834		rs17159388	
	Beta (SE)	<i>P</i>	Beta (SE)	<i>P</i>	Beta (SE)	<i>P</i>
Triglyceride						
Model 1 ^a	-0.0297 (0.0308)	0.3347	0.0253 (0.0274)	0.3555	0.0229 (0.0223)	0.3037
Model 2 ^b	-0.0259 (0.0309)	0.4019	0.0315 (0.0274)	0.2506	-0.0270 (0.0213)	0.2061
Total cholesterol						
Model 1 ^a	-0.0834 (0.0479)	0.0816	-0.0347 (0.0426)	0.4151	-0.0306 (0.0346)	0.3775
Model 2 ^b	-0.0924 (0.0484)	0.0564	-0.0325 (0.0429)	0.4488	-0.0555 (0.0351)	0.1147
HDL-c						
Model 1 ^a	0.0007 (0.0168)	0.9655	-0.0359 (0.0149)	0.0162	-0.0292 (0.0121)	0.0161
Model 2 ^b	-0.0016 (0.0169)	0.9244	-0.0366 (0.0150)	0.0147	-0.0176 (0.0122)	0.1488
LDL-c						
Model 1 ^a	-0.0862 (0.0480)	0.0727	-0.0048 (0.0427)	0.9100	-0.0141 (0.0349)	0.6870
Model 2 ^b	-0.0965 (0.0485)	0.0470	-0.0046 (0.0430)	0.9142	-0.0272 (0.0356)	0.4443

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^a Model 1 data were adjusted for age, gender, region, and the first two principle components.

^b Model 2 data were further adjusted for 14:0 (for rs11589386 and rs11042834) and 20:0 (for rs17159388) based on Model 1

