

Table S3A. Lead SNP at TG loci within each ancestry group and their relative significance compared to reported GWAS index SNPs

| <i>TG</i> <i>Locus</i> | African American | | | | | East Asian | | | | European | | | |
|---------------------------|-------------------------|--------------------|------------|----------|---|-------------------|------------|----------|---|-------------------|------------|----------|---|
| | | Index SNP | MAF | P | LD (r^2/D')^a | Index SNP | MAF | P | LD (r^2/D')^b | Index SNP | MAF | P | LD (r^2/D')^c |
| <i>APOA5</i> | GWAS ^d | rs12286037 | 0.191 | 4.00E-01 | 0.04/0.36 | rs12286037 | 0.008 | 6.60E-01 | n.a. | rs12286037 | 0.058 | 4.55E-18 | 0.23/1.00 |
| | MetaboChip | rs3135506 (S19W) | 0.058 | 8.36E-15 | | rs651821 (-3A>G) | 0.275 | 7.21E-68 | | rs3741298 | 0.222 | 9.68E-44 | |
| <i>GCKR</i> | GWAS | rs1260326 | 0.149 | 2.20E-08 | same | rs1260326 | 0.484 | 1.54E-13 | 0.42/0.93 | rs1260326 | 0.350 | 6.04E-24 | same |
| | MetaboChip | rs1260326 (L446P) | 0.149 | 2.20E-08 | | rs814295 | 0.350 | 1.52E-13 | | rs1260326 (L446P) | 0.350 | 4.40E-24 | |
| <i>LPL</i> | GWAS | rs12678919 | 0.112 | 1.94E-03 | 0.29/0.60 | rs12678919 | 0.094 | 1.25E-10 | 0.86/1.00 | rs12678919 | 0.088 | 2.63E-11 | 0.31/1.00 |
| | MetaboChip | rs75551077 | 0.135 | 1.31E-09 | | rs1803924 | 0.095 | 1.11E-11 | | rs15285 (3'UTR) | 0.258 | 1.08E-16 | |
| <i>TRIB1</i> | GWAS | rs2954029 | 0.350 | 7.52E-01 | 0.05/0.94 | rs2954029 | 0.452 | 1.74E-03 | 0.56/1.00 | rs2954029 | 0.465 | 1.54E-16 | same |
| | MetaboChip | rs2980858 | 0.094 | 3.12E-06 | | rs2954018 | 0.290 | 1.70E-05 | | rs2954029 | 0.465 | 1.54E-16 | |
| <i>APOC1</i> | GWAS | rs439401 | 0.155 | 2.06E-01 | 0.03/0.99 | rs439401 | 0.430 | 4.02E-04 | 0.06/0.46 | rs439401 | 0.301 | 1.82E-04 | 0.02/0.51 |
| | MetaboChip | rs12721054 (3'UTR) | 0.119 | 3.57E-19 | | rs7259004 | 0.244 | 4.11E-05 | | rs445925 | 0.084 | 1.38E-04 | |
| <i>MLXIPL</i> | GWAS | rs17145738 | 0.091 | 8.29E-04 | 0.99/1.00 | rs17145738 | 0.099 | 1.85E-08 | 0.68/0.92 | rs17145738 | 0.127 | 3.17E-05 | 0.32/0.94 |
| | MetaboChip | rs13246490 | 0.091 | 6.77E-04 | | rs67566641 | 0.088 | 7.75E-11 | | rs7808877 | 0.245 | 2.55E-08 | |
| <i>ANGPTL3</i> | GWAS | rs2131925 | 0.348 | 1.00E-01 | 0.06/0.94 | rs2131925 | 0.259 | 8.06E-04 | 0.89/1.00 | rs2131925 | 0.281 | 1.41E-11 | 0.98/0.99 |
| | MetaboChip | rs7523145 | 0.121 | 7.19E-05 | | rs1748199 | 0.223 | 2.86E-05 | | rs1748199 | 0.281 | 9.87E-12 | |
| <i>APOB</i> | GWAS | rs1042034 | 0.157 | 4.81E-06 | 1.00/1.00 | rs1042034 | 0.276 | 7.48E-01 | 0.27/1.00 | rs1042034 | 0.260 | 1.64E-10 | 0.99/0.99 |
| | MetaboChip | rs676210 (P2739L) | 0.157 | 3.97E-06 | | rs13306194 | 0.149 | 9.87E-05 | | rs2678379 | 0.260 | 1.50E-10 | |
| <i>LIPC</i> | GWAS | rs1532085 | 0.481 | 3.07E-02 | 0.01/0.84 | rs1532085 | 0.465 | 1.69E-01 | 0.44/1.00 | rs1532085 | 0.423 | 5.18E-05 | 0.64/0.98 |
| | MetaboChip | rs115573508 | 0.012 | 1.37E-03 | | rs7164909 | 0.348 | 9.87E-03 | | rs10468017 | 0.328 | 2.99E-06 | |
| <i>CETP</i> | GWAS | rs3764261 | 0.319 | 5.26E-01 | 0.00/0.11 | rs3764261 | 0.166 | 1.53E-01 | 0.00/0.25 | rs3764261 | 0.282 | 3.66E-02 | 0.10/0.96 |
| | MetaboChip | rs186526203 | 0.144 | 3.90E-03 | | rs79374262 | 0.016 | 1.46E-02 | | rs11076175 | 0.175 | 1.01E-04 | |
| <i>NAT2</i> | GWAS | rs1495741 | n.a. | n.a. | n.a. | rs1495741 | n.a. | n.a. | 0.71/0.96 | rs1495741 | n.a. | n.a. | 0.13/0.96 |
| | MetaboChip | rs78728596 | 0.145 | 1.24E-03 | | rs4921911 | 0.424 | 7.36E-04 | | rs1041983 (Y94Y) | 0.282 | 2.39E-03 | |
| <i>KLHL8</i> | GWAS | rs442177 | 0.499 | 6.31E-01 | 0.00/0.63 | rs442177 | 0.421 | 4.58E-02 | 0.22/0.69 | rs442177 | 0.261 | 6.09E-02 | 0.09/0.48 |
| | MetaboChip | rs113071385 | 0.009 | 5.00E-04 | | rs2061498 | 0.345 | 7.55E-04 | | rs4134363 | 0.221 | 6.26E-04 | |
| <i>PINX1</i> | GWAS | rs11776767 | 0.351 | 2.87E-01 | 0.03/0.42 | rs11776767 | 0.224 | 6.50E-01 | 0.01/0.97 | rs11776767 | 0.313 | 1.27E-01 | 0.47/0.89 |
| | MetaboChip | rs17152623 | 0.253 | 5.56E-04 | | rs118016348 | 0.009 | 1.60E-02 | | rs7014285 | 0.199 | 1.06E-02 | |
| <i>TYWIB</i> | GWAS | rs13238203 | 0.007 | 6.27E-01 | 0.00/1.00 | rs13238203 | n.a. | n.a. | n.a. | rs13238203 | n.a. | n.a. | 1.00/0.00 |
| | MetaboChip | rs114204448 | 0.020 | 8.95E-04 | | rs1892751 | 0.357 | 5.60E-02 | | rs71553242 | 0.025 | 1.64E-02 | |
| <i>LRP1</i> | GWAS | rs11613352 | 0.095 | 3.00E-01 | 0.01/1.00 | rs11613352 | 0.091 | 8.91E-01 | 0.00/1.00 | rs11613352 | 0.247 | 5.87E-01 | 0.02/1.00 |
| | MetaboChip | rs10735872 | 0.087 | 1.83E-03 | | rs117312963 | 0.001 | 1.32E-01 | | rs11172224 | 0.008 | 3.61E-02 | |
| <i>MAP3K1</i> | GWAS | rs9686661 | 0.239 | 3.40E-01 | 0.07/1.00 | rs9686661 | 0.114 | 2.66E-01 | 0.06/1.00 | rs9686661 | 0.137 | 4.11E-03 | 0.93/0.97 |
| | MetaboChip | rs74762860 | 0.184 | 6.32E-02 | | rs6450394 | 0.336 | 4.68E-03 | | rs3936510 | 0.143 | 1.40E-03 | |
| <i>CAPN3</i> | GWAS | rs2412710 | 0.074 | 8.74E-01 | 0.00/0.18 | rs2412710 | n.a. | 9.38E-01 | 0.00/0.15 | rs2412710 | 0.013 | 8.00E-02 | 0.00/1.00 |
| | MetaboChip | rs1801449 (A149S) | 0.374 | 2.75E-03 | | rs3742996 | 0.128 | 1.22E-02 | | rs118166665 | 0.010 | 4.44E-02 | |
| <i>KLF12</i> | GWAS | rs9592961 | 0.018 | 4.29E-01 | 0.00/1.00 | rs9592961 | 0.061 | 7.85E-01 | 0.00/0.40 | rs9592961 | 0.006 | 9.66E-01 | 0.00/1.00 |
| | MetaboChip | rs9543507 | 0.113 | 2.06E-02 | | rs7328112 | 0.104 | 5.40E-02 | | rs114713792 | 0.007 | 1.52E-01 | |

^a LD (r^2/D') estimates were calculated from the genotype data of the PAGE African American samples, whose LD patterns may vary from any LD sources in 1000 Genomes Project

^b LD (r^2/D') estimates were from the 1000 Genomes Project ASN samples

^c LD (r^2/D') estimates were from the 1000 Genomes Project EUR samples

^d Results of association with reported GWAS index SNPs were based on current study samples

n.a. the GWAS index SNP was not genotyped by MetaboChip or was excluded in quality control, or the pairwise LD estimates are not applicable

Table S3B. Lead SNP at HDL-C loci within each ancestry group and their relative significance compared to reported GWAS index SNPs

| <i>HDL-C</i> | African American | | | | | East Asian | | | | European | | | |
|----------------|-------------------|-------------|-------|----------|------------------------------|--------------------|-------|----------|------------------------------|-------------------|-------|----------|------------------------------|
| | <i>Locus</i> | Index SNP | MAF | <i>P</i> | LD (r^2/D') ^a | Index SNP | MAF | <i>P</i> | LD (r^2/D') ^b | Index SNP | MAF | <i>P</i> | LD (r^2/D') ^c |
| <i>CETP</i> | GWAS ^d | rs3764261 | 0.319 | 8.78E-27 | 0.74/0.99 | rs3764261 | 0.168 | 1.24E-27 | 1.00/1.00 | rs3764261 | 0.285 | 2.21E-58 | 0.99/0.99 |
| | Metabochip | rs247617 | 0.259 | 1.09E-42 | | rs17231506 (5'UTR) | 0.168 | 3.63E-28 | | rs56156922 | 0.284 | 4.68E-59 | |
| <i>LIPC</i> | GWAS | rs1532085 | 0.481 | 1.27E-01 | 0.00/0.02 | rs1532085 | 0.474 | 2.87E-10 | 0.04/0.21 | rs1532085 | 0.422 | 6.30E-19 | 0.59/1.00 |
| | Metabochip | rs1077834 | 0.481 | 2.22E-06 | | rs588136 | 0.371 | 3.67E-14 | | rs10468017 | 0.327 | 2.53E-21 | |
| <i>LPL</i> | GWAS | rs12678919 | 0.113 | 4.13E-03 | 0.10/0.74 | rs12678919 | 0.091 | 6.51E-06 | 1.00/1.00 | rs12678919 | 0.088 | 5.33E-06 | 0.39/1.00 |
| | Metabochip | rs10096633 | 0.421 | 1.01E-12 | | rs79236614 | 0.091 | 2.18E-06 | | rs15285 (3'UTR) | 0.259 | 1.44E-09 | |
| <i>ABCA1</i> | GWAS | rs1883025 | 0.336 | 1.77E-02 | same | rs1883025 | 0.271 | 3.74E-11 | same | rs1883025 | 0.209 | 4.53E-07 | same |
| | Metabochip | rs1883025 | 0.336 | 1.77E-02 | | rs1883025 | 0.271 | 3.74E-11 | | rs1883025 | 0.209 | 4.53E-07 | |
| <i>APOA5</i> | GWAS | rs12286037 | 0.191 | 5.20E-01 | 0.00/0.13 | rs12286037 | 0.008 | 4.00E-01 | 0.00/1.00 ^e | rs12286037 | 0.058 | 4.50E-05 | 0.23/1.00 |
| | Metabochip | rs189069311 | 0.043 | 4.16E-05 | | rs651821 (-3A>G) | 0.274 | 4.41E-11 | | rs3741298 | 0.224 | 1.98E-05 | |
| <i>LCAT</i> | GWAS | rs16942887 | 0.214 | 3.47E-06 | 0.87/0.93 | rs16942887 | 0.029 | 2.44E-01 | 0.57/0.82 | rs16942887 | 0.152 | 2.21E-04 | 0.79/1.00 |
| | Metabochip | rs255054 | 0.211 | 3.24E-07 | | rs12447119 (5'UTR) | 0.077 | 2.00E-04 | | rs1109166 | 0.192 | 5.00E-05 | |
| <i>APOB</i> | GWAS | rs1042034 | 0.158 | 7.47E-03 | 0.88/0.95 | rs1042034 | 0.282 | 3.63E-03 | 0.19/1.00 | rs1042034 | 0.258 | 4.95E-08 | 1.00/1.00 |
| | Metabochip | rs10184054 | 0.158 | 3.11E-03 | | rs56984418 | 0.073 | 7.81E-05 | | rs2678379 | 0.258 | 4.28E-08 | |
| <i>LIPG</i> | GWAS | rs4939883 | 0.453 | 4.79E-01 | 0.04/0.57 | rs4939883 | 0.177 | 5.89E-05 | 0.47/1.00 | rs4939883 | 0.183 | 5.42E-05 | 0.64/1.00 |
| | Metabochip | rs1016563 | 0.141 | 1.80E-04 | | rs1943973 | 0.178 | 1.90E-06 | | rs7244811 | 0.283 | 1.38E-05 | |
| <i>PPP1R3B</i> | GWAS | rs9987289 | 0.184 | 2.48E-04 | 0.57/0.96 | rs9987289 | 0.056 | 2.39E-01 | 0.24/0.67 | rs9987289 | n.a. | n.a. | 0.40/0.74 |
| | Metabochip | rs6601299 | 0.121 | 7.99E-08 | | rs7357361 | 0.032 | 2.55E-03 | | rs114798927 | 0.151 | 7.93E-05 | |
| <i>SCARB1</i> | GWAS | rs838880 | 0.325 | 4.29E-01 | 0.01/1.00 | rs838880 | 0.478 | 1.61E-03 | 0.22/0.74 | rs838880 | 0.407 | 5.68E-05 | 0.83/0.95 |
| | Metabochip | rs116354593 | 0.016 | 9.20E-03 | | rs7977729 | 0.342 | 3.61E-04 | | rs838876 | 0.401 | 2.09E-05 | |
| <i>ARFGAP2</i> | GWAS | rs3136441 | 0.034 | 7.31E-01 | 0.00/0.45 | rs3136441 | 0.438 | 6.14E-01 | 0.02/0.65 | rs3136441 | 0.219 | 1.14E-05 | 0.13/0.61 |
| | Metabochip | rs901750 | 0.204 | 5.72E-04 | | rs4647756 | 0.058 | 2.09E-03 | | rs1055510 | 0.402 | 1.27E-06 | |
| <i>GALNT2</i> | GWAS | rs4846914 | 0.147 | 1.30E-01 | 0.00/0.31 | rs4846914 | 0.248 | 4.91E-02 | 0.02/0.19 | rs4846914 | 0.443 | 5.28E-04 | 1.00/1.00 |
| | Metabochip | rs60506249 | 0.122 | 9.47E-03 | | rs78493600 | 0.100 | 4.99E-03 | | rs17315646 | 0.443 | 4.78E-04 | |
| <i>PLTP</i> | GWAS | rs6065906 | 0.162 | 1.90E-02 | 0.26/0.93 | rs6065906 | 0.027 | 5.01E-01 | 0.00/0.15 | rs6065906 | 0.169 | 6.55E-03 | n.a. |
| | Metabochip | rs4810479 | 0.397 | 9.50E-05 | | rs8114050 | 0.047 | 9.53E-04 | | rs6017720 | 0.156 | 3.74E-03 | |
| <i>LILRA3</i> | GWAS | rs386000 | 0.299 | 4.83E-01 | 0.00/0.98 | rs386000 | 0.388 | 5.21E-01 | 0.03/0.20 | rs386000 | 0.304 | 1.31E-04 | n.a. |
| | Metabochip | rs73055464 | 0.006 | 8.34E-04 | | rs434124 | 0.026 | 3.06E-02 | | rs798893 | 0.239 | 8.83E-05 | |
| <i>MMAB</i> | GWAS | rs9943753 | 0.080 | 8.70E-01 | 0.00/0.02 | rs9943753 | 0.441 | 6.47E-02 | 0.65/1.00 | rs9943753 | 0.428 | 3.94E-01 | 0.10/1.00 |
| | Metabochip | rs111273776 | 0.062 | 2.33E-03 | | rs3815575 | 0.257 | 6.40E-04 | | rs2287182 | 0.051 | 9.68E-03 | |
| <i>FADS3</i> | GWAS | rs174546 | 0.084 | 1.25E-01 | 0.01/0.65 | rs174546 | 0.384 | 3.68E-02 | 0.15/0.54 | rs174546 | 0.408 | 2.75E-02 | 0.25/0.90 |
| | Metabochip | rs11230827 | 0.196 | 4.18E-04 | | rs1534842 | 0.336 | 3.09E-03 | | rs174602 | 0.203 | 4.49E-03 | |
| <i>COBLL1</i> | GWAS | rs12328675 | 0.159 | 4.03E-01 | 0.00/0.76 | rs12328675 | 0.003 | 9.91E-01 | 0.00/1.00 | rs12328675 | 0.097 | 9.96E-04 | n.a. |
| | Metabochip | rs58133528 | 0.025 | 1.83E-02 | | rs34309702 | 0.022 | 1.09E-01 | | rs190303539 | 0.349 | 8.47E-05 | |
| <i>TTC39B</i> | GWAS | rs581080 | 0.498 | 3.55E-01 | 0.07/0.95 | rs581080 | 0.107 | 5.38E-01 | 0.00/1.00 | rs581080 | 0.150 | 8.30E-02 | 0.71/1.00 |
| | Metabochip | rs189682870 | 0.072 | 1.39E-03 | | rs117901166 | 0.005 | 1.01E-02 | | rs686030 | 0.122 | 1.69E-03 | |
| <i>STARD3</i> | GWAS | rs11869286 | 0.260 | 6.86E-01 | 0.03/0.93 | rs11869286 | 0.368 | 5.52E-02 | 0.12/0.69 | rs11869286 | 0.314 | 3.31E-01 | 0.01/1.00 |
| | Metabochip | rs78739040 | 0.076 | 3.47E-03 | | rs12150079 | 0.183 | 7.92E-03 | | rs117064469 | 0.007 | 7.78E-03 | |
| <i>LACTB</i> | GWAS | rs2652834 | 0.289 | 8.00E-01 | 0.07/0.93 | rs2652834 | 0.011 | 7.10E-01 | 0.00/0.02 | rs2652834 | 0.210 | 3.81E-03 | n.a. |
| | Metabochip | rs8036238 | 0.034 | 4.97E-03 | | rs76414746 | 0.007 | 5.33E-03 | | rs182185151 | 0.214 | 3.08E-03 | |
| <i>ABCA8</i> | GWAS | rs4148008 | 0.452 | 8.90E-01 | 0.01/0.89 | rs4148008 | 0.439 | 2.01E-01 | 0.01/1.00 | rs4148008 | 0.321 | 1.31E-01 | 0.12/0.74 |
| | Metabochip | rs116585097 | 0.014 | 4.92E-03 | | rs117047167 | 0.009 | 5.17E-03 | | rs4968962 | 0.235 | 1.99E-02 | |
| <i>HNF4A</i> | GWAS | rs1800961 | 0.008 | 1.23E-01 | 0.02/1.00 | rs1800961 | 0.013 | 9.89E-01 | 0.02/0.94 | rs1800961 | 0.045 | 2.02E-02 | same |
| | Metabochip | rs6093978 | 0.284 | 3.35E-02 | | rs2273618 | 0.346 | 2.68E-01 | | rs1800961 (T139I) | 0.045 | 2.02E-02 | |

^a LD (r^2/D') estimates were calculated from the genotype data of the PAGE African American samples, whose LD patterns may vary from any LD sources in 1000 Genomes Project

^b LD (r^2/D') estimates were from the 1000 Genomes Project ANS samples, unless otherwise indicated

^c LD (r^2/D') estimates were from the 1000 Genomes Project EUR samples

^d Results of association with reported GWAS index SNPs were based on current study samples

^e LD (r^2/D') estimates were calculated from the genotype data of the CLHNS samples, due to the SNPs are not in 1000 Genomes Project

n.a. the pairwise LD estimates are not applicable

Table S3C. Lead SNP at LDL-C loci within each ancestry group and their relative significance compared to reported GWAS index SNPs

| <i>LDL-C</i> <i>Locus</i> | African American | | | | | East Asian | | | | European | | | |
|------------------------------|-------------------------|--------------------|------------|----------|---|-------------------|------------|----------|---|-------------------|------------|----------|---|
| | | Index SNP | MAF | P | LD (r^2/D')^a | Index SNP | MAF | P | LD (r^2/D')^b | Index SNP | MAF | P | LD (r^2/D')^c |
| <i>APOE</i> | GWAS | rs4420638 | 0.182 | 2.50E-01 | 0.00/0.01 | rs4420638 | n.a. | n.a. | 0.01/1.00 | rs4420638 | 0.227 | 2.03E-17 | 0.01/0.89 |
| | MetaboChip | rs7412 (R176C) | 0.110 | 6.67E-75 | | rs7412 (R176C) | 0.086 | 1.10E-64 | | rs7412 (R176C) | 0.056 | 5.44E-76 | |
| <i>LDLR</i> | GWAS | rs6511720 | 0.131 | 5.38E-14 | 0.63/0.95 | rs6511720 | 0.019 | 3.18E-02 | 0.11/0.94 | rs6511720 | 0.104 | 5.32E-22 | 0.58/1.00 |
| | MetaboChip | rs73015011 | 0.180 | 5.70E-16 | | rs11668477 | 0.142 | 2.37E-04 | | rs112898275 | 0.104 | 8.91E-23 | |
| <i>SORT1</i> | GWAS | rs629301 | 0.350 | 9.00E-12 | 0.62/1.00 | rs629301 | 0.038 | 3.08E-01 | 0.03/0.28 | rs629301 | 0.228 | 1.82E-21 | 0.90/1.00 |
| | MetaboChip | rs12740374 | 0.247 | 1.45E-18 | | rs676961 | 0.047 | 6.88E-03 | | rs602633 | 0.230 | 2.08E-22 | |
| <i>PCSK9</i> | GWAS | rs2479409 | 0.261 | 1.19E-01 | 0.02/0.93 | rs2479409 | 0.432 | 1.36E-02 | 0.03/1.00 | rs2479409 | 0.310 | 1.55E-04 | 0.00/0.21 |
| | MetaboChip | rs28362286 (C679X) | 0.009 | 4.14E-22 | | rs2495488 | 0.068 | 7.19E-04 | | rs11591147 (R46L) | 0.040 | 2.76E-30 | |
| <i>APOB</i> | GWAS | rs1367117 (T98I) | 0.115 | 3.78E-03 | 0.15/0.92 | rs1367117 (T98I) | 0.127 | 2.90E-02 | 0.72/0.92 | rs1367117 (T98I) | 0.284 | 5.72E-14 | 0.82/0.92 |
| | MetaboChip | rs568938 | 0.426 | 1.14E-08 | | rs2115838 | 0.135 | 7.60E-04 | | rs934198 | 0.298 | 3.71E-17 | |
| <i>ABO</i> | GWAS | rs635634 | 0.107 | 1.10E-03 | 0.00/1.00 | rs635634 | 0.166 | 1.28E-04 | 0.74/0.93 | rs635634 | 0.197 | 2.53E-05 | 0.44/0.79 |
| | MetaboChip | rs9411508 | 0.011 | 7.21E-05 | | rs9411476 | 0.162 | 1.08E-08 | | rs9411378 | 0.301 | 4.06E-06 | |
| <i>ABCG8</i> | GWAS | rs4299376 | 0.182 | 1.42E-02 | 0.16/0.67 | rs4299376 | 0.004 | 4.77E-01 | 0.00/1.00 | rs4299376 | 0.211 | 1.28E-05 | 0.05/1.00 |
| | MetaboChip | rs72796798 | 0.071 | 2.24E-06 | | rs4148217 (K400R) | 0.002 | 4.17E-02 | | rs76866386 | 0.081 | 1.58E-07 | |
| <i>HMGR</i> | GWAS | rs12916 | 0.247 | 5.40E-01 | 0.00/0.04 | rs12916 | 0.465 | 2.03E-01 | 0.31/0.92 | rs12916 | 0.445 | 4.00E-08 | same |
| | MetaboChip | rs6453134 | 0.302 | 3.19E-03 | | rs253392 | 0.287 | 1.62E-03 | | rs12916 (3'UTR) | 0.445 | 4.00E-08 | |
| <i>HPR</i> | GWAS | rs2000999 | 0.072 | 6.88E-01 | 0.01/0.49 | rs2000999 | 0.264 | 7.68E-01 | 0.61/0.90 ^e | rs2000999 | 0.190 | 3.71E-06 | 1.00/1.00 |
| | MetaboChip | rs1862752 | 0.285 | 1.79E-07 | | rs182238023 | 0.328 | 2.19E-04 | | rs34042070 | 0.190 | 1.59E-06 | |
| <i>TRIB1</i> | GWAS | rs2954029 | 0.350 | 7.39E-01 | 0.05/0.87 | rs2954029 | 0.447 | 6.04E-02 | 0.31/0.93 | rs2954029 | 0.466 | 1.77E-04 | 0.04/0.60 |
| | MetaboChip | rs2980888 | 0.107 | 1.34E-04 | | rs10216723 | 0.439 | 1.45E-02 | | rs4419828 | 0.267 | 1.11E-04 | |
| <i>TIMD4</i> | GWAS | rs6882076 | 0.374 | 4.41E-01 | 0.15/0.98 | rs6882076 | 0.350 | 4.42E-02 | 0.11/1.00 | rs6882076 | 0.325 | 1.64E-04 | n.a. |
| | MetaboChip | rs10075548 | 0.199 | 3.85E-03 | | rs72052548 | 0.069 | 2.78E-03 | | rs2862716 (M158T) | 0.333 | 1.14E-04 | |
| <i>TOP1</i> | GWAS | rs2902940 | 0.489 | 4.58E-01 | 0.00/0.06 | rs2902940 | 0.290 | 6.12E-01 | 0.01/0.73 ^e | rs2902940 | 0.764 | 1.35E-01 | 0.00/0.62 |
| | MetaboChip | rs6065326 | 0.094 | 1.02E-02 | | rs78886984 | 0.060 | 1.58E-02 | | rs1883511 | 0.022 | 1.50E-05 | |
| <i>LDLRAP1</i> | GWAS | rs12027135 | 0.460 | 4.78E-02 | 0.02/0.96 | rs12027135 | 0.146 | 2.24E-01 | 0.63/0.90 | rs12027135 | 0.460 | 8.80E-02 | 0.76/0.96 |
| | MetaboChip | rs3093590 | 0.020 | 1.89E-04 | | rs35447638 | 0.220 | 2.36E-03 | | rs706845 | 0.352 | 1.77E-02 | |
| <i>CILP2</i> | GWAS | rs10401969 | 0.268 | 1.38E-01 | 0.00/1.00 | rs10401969 | 0.049 | 1.53E-01 | 0.00/1.00 | rs10401969 | 0.068 | 1.17E-03 | 0.64/0.80 |
| | MetaboChip | rs78712672 | 0.015 | 6.51E-03 | | rs149298732 | 0.045 | 1.70E-02 | | rs58489806 | 0.083 | 2.78E-04 | |
| <i>SLC22A1</i> | GWAS | rs1564348 | 0.110 | 5.80E-01 | 0.00/0.32 | rs1564348 | 0.002 | 9.52E-01 | n.a. | rs1564348 | 0.145 | 3.24E-02 | 0.00/0.05 |
| | MetaboChip | rs9456502 | 0.187 | 3.97E-04 | | rs9457839 | 0.121 | 2.00E-03 | | rs3798179 | 0.365 | 5.71E-03 | |
| <i>MAFB</i> | GWAS | rs2902940 | 0.489 | 4.58E-01 | 0.02/1.00 | rs2902940 | 0.248 | 3.57E-01 | 0.01/1.00 | rs2902940 | 0.236 | 1.35E-01 | 0.00/0.05 |
| | MetaboChip | rs76897158 | 0.018 | 1.68E-02 | | rs77016819 | 0.017 | 2.75E-03 | | rs2865162 | 0.109 | 6.01E-02 | |
| <i>ST3GAL4</i> | GWAS | rs11220462 | 0.046 | 8.61E-01 | 0.00/0.21 | rs11220462 | 0.355 | 6.17E-01 | n.a. | rs11220462 | n.a. | n.a. | 0.01/1.00 |
| | MetaboChip | rs7937122 | 0.381 | 4.54E-03 | | rs12281220 | 0.003 | 4.73E-02 | | rs117603193 | 0.037 | 1.22E-02 | |
| <i>MYLIP</i> | GWAS | rs3757354 | 0.335 | 1.77E-01 | 0.01/0.80 | rs3757354 | 0.359 | 3.24E-01 | 0.40/1.00 | rs3757354 | 0.260 | 7.72E-01 | 0.50/1.00 |
| | MetaboChip | rs116738939 | 0.020 | 9.04E-03 | | rs1011616 | 0.419 | 2.83E-02 | | rs72833416 | 0.072 | 1.64E-01 | |

^a LD (r^2/D') estimates were calculated from the genotype data of the PAGE African American samples, whose LD patterns may vary from any LD sources in 1000 Genomes Project

^b LD (r^2/D') estimates were from the 1000 Genomes Project ASN samples, unless otherwise indicated

^c LD (r^2/D') estimates were from the 1000 Genomes Project EUR samples, unless otherwise indicated

^d Results of association with reported GWAS index SNPs were based on current study samples

^e LD (r^2/D') estimates were calculated from the genotype data of the CLHNS samples, due to the SNPs are not in 1000 Genomes Project

n.a. the pairwise LD estimates are not applicable