

Online Appendix

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Supplement to: Zeng L, Talukdar H, Koplev S, Giannarelli³ C et al. **Contribution of Regulatory-Gene Networks to Coronary Artery Disease Heritability**, manuscript

Online Appendix

Major Contribution of Regulatory-Gene Networks to Coronary Artery Disease Heritability

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Acknowledgement of Sources of Funding for Study Cohorts

All_modules

The **Stockholm Atherosclerosis Gene Expression (STAGE)** study

This work was supported by the Swedish Heart-Lung Foundation, the Swedish Research Council, the King Gustaf V and Queen Victoria's Foundation of Freemasons, the Astra-Zeneca Translational Science Centre-Karolinska Institutet, the Biotechnology and Biological Sciences Research Council (BBSRC, BB/J004235/1 and BB/M020053/1). Clinical Gene Networks AB (CGN) supported this work as a small and medium-sized enterprise (SME) of the EU FP6/FP7 project CVgenes@target (HEALTH-F2-2013-601456).

The **Stockholm-Tartu Atherosclerosis Reverse Network Engineering Task (STARNET)** study

The STARNET study was supported by the University of Tartu (SP1GVARENG), the Estonian Research Council (ETF grant 8853), the Astra-Zeneca Translational Science Centre-Karolinska Institutet (a joint research program in translational science), Clinical Gene Networks AB (CGN) as an SME of the FP6/FP7 EU-funded integrated project CVgenes@target (HEALTH-F2-2013-601456), the Leducq transatlantic networks, CAD Genomics, Sphingonet, the Torsten and Ragnar Söderberg Foundation, the Knut and Alice Wallenberg Foundation, the American Heart Association (A14SFRN20840000, the National Institutes of Health (NIH NHLBI R01HL125863; NIH NHLBI R01HL71207; R01AG050986; NIH NHLBI K23HL111339; NIH NHLBI K08HL111330). The DNA genotyping and RNA sequencing were in part performed by the SNP&SEQ technology platform at Science for Life Laboratory the National Genomics Infrastructure (NGI) in Uppsala and Stockholm supported by the Swedish Research Council (VR-RF1), the Knut and Alice Wallenberg Foundation, and Uppsala Multidisciplinary Center for Advanced Computational Science (UPPMAX). CGN has financially contributed to the STARNET study. This work was supported in part through the computational resources and staff expertise provided by Scientific Computing at the Icahn School of Medicine at Mount Sinai. The STARNET data is accessible through the Database of Genotypes and Phenotypes (dbGAP).

The **Genome-Wide Association (GWA)** studies

This work was funded by the Deutsche Forschungsgemeinschaft (DFG) as part of the Sonderforschungsbereich CRC 1123 (B02). This study was also supported by grants from the Fondation Leducq (CADgenomics: Understanding CAD Genes, 12CVD02), the German Federal Ministry of Education and Research (BMBF) within the framework of the e:Med research and funding concept (*e:AtheroSysMed*, grant 01ZX1313A-2014), and the European Union Seventh Framework Programme FP7/2007-2013 under grant agreement n° HEALTH-F2-2013-601456 (*CVgenes-at-target*). All GWA studies were approved by their local Ethical Committees. In the GerMIF studies, Cardiogenics, WTCCC, and MIGen, information on CAD manifestation was validated by medical records. The assessment of CAD is described in detail in the respective references.

Online Methods

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Preprocessing of individual genotype data of the GWA studies

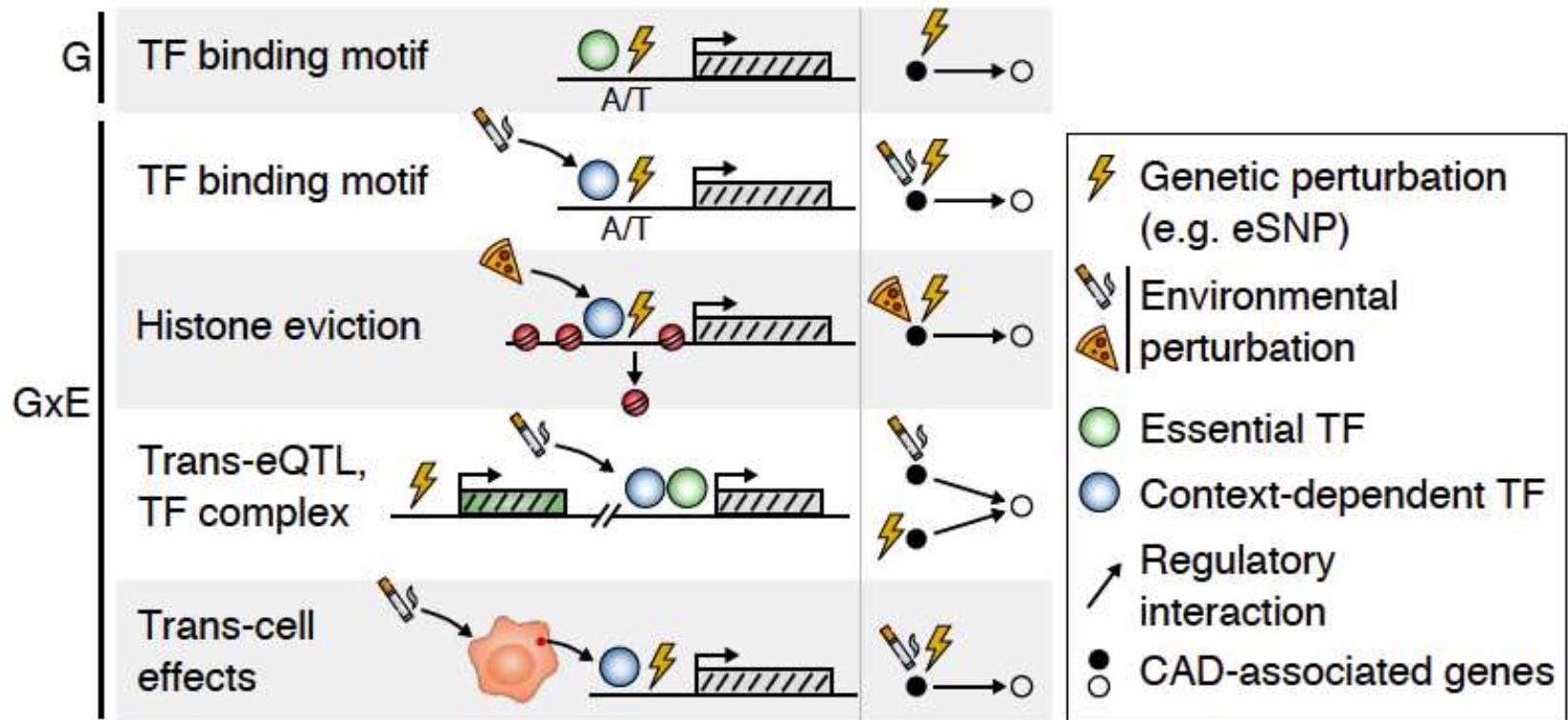
Genotype data from each of the nine GWA studies were first processed separately under strict quality control followed by imputation for all nine studies combined. Quality control at the genotype level included individual call rate ≥ 0.98 , SNP call rate > 0.98 , minor allele frequency > 0.01 , concordant recorded and genotype-derived gender, population outliers excluded (deviate beyond mean $\pm 5 \times \text{SD}$ for top two principal components), IBD PI_HAT < 0.125 (individuals distant away than third-degree relatives), heterozygosity rate within mean $\pm 3 \times \text{SD}$, and deviation from Hardy-Weinberg equilibrium $P > 1e-6$. After genotype quality control, haplotypes were pre-phased from genotypes with the SHAPEIT2 haplotype estimation tool to generate the best-guess haplotypes based on the given genotypes. The best-guess haplotypes were forwarded to IMPUTE2 for imputation. The reference panel for imputation was The 1000 Genomes Phase I integrated variant (v3) set released in NCBI build 37 (hg19) coordinates with reference data from March 2012 (updated August 2012). The post-imputation quality control criteria were SNP call rate > 0.98 , mean allele frequency > 0.05 , Hardy-Weinberg $P > 1e-5$. SNPs that met these criteria and were consistently represented across studies were merged for all studies, resulting in pooled data from 27,376 individuals. Data for WTCCC and Cardiogenics were from the Leducq network “CADgenomics” (<https://www.fondationleducq.org/network/understanding-coronary-artery-disease-genes/>). Individual statistics are summarized below; cohort descriptions and more detailed assessment of CAD may be found in the corresponding references.

Preprocessing of RNA Seq data from STARNET

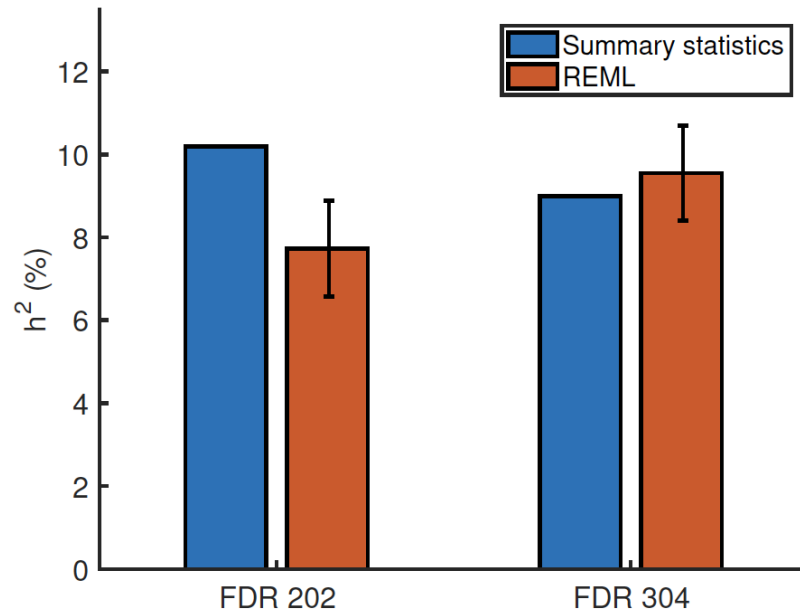
Multi-tissue STARNET RNAseq data were aligned to GRCh38 and counted at the exon level as described¹ Gene counts were normalized for library size with DESeq2² and adjusted for age, gender, read length, RNA extraction protocol, flow cell, laboratory, and four surrogate variables³ using L2-penalized regression and a regularization parameter of 1.0. Independent flow cell factors were constructed by singular value decomposition; eigenvectors with eigenvalues above 4.0 were retained.

Comparing the multifactorial liability threshold and the restricted maximum likelihood models in assessing heritability

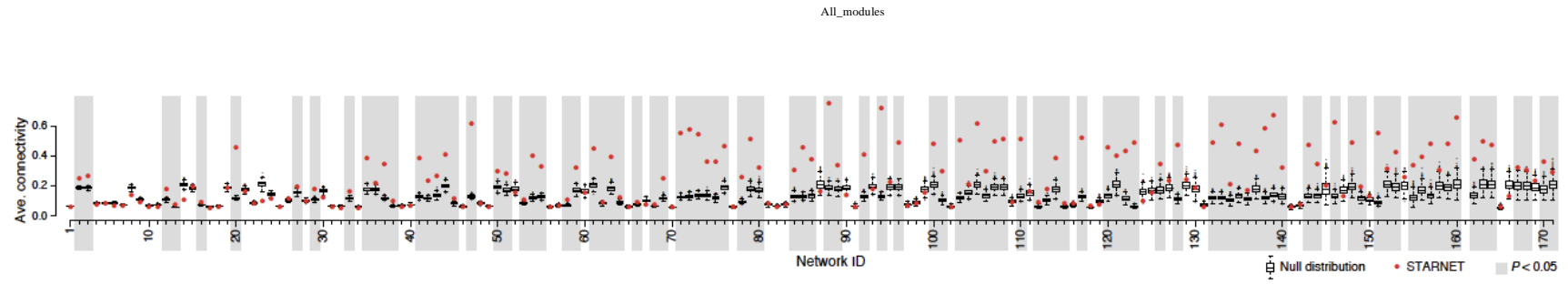
In the two most recent GWA studies, CAD heritability of identified genetic loci assessed with the multifactorial liability threshold model was $\sim 22\%$ (assuming 40% inherited CAD variance).^{4,5} In both studies, heritability was estimated from summary statistics, and the effect size of each lead SNP/locus was added up.^{4,5} Thus, each risk locus was assumed to contribute to CAD heritability with independent effect sizes. However, in assessing heritability contributions from more diverse sets of SNPs (such as eSNPs of network genes), such SNPs, particularly those in close proximity, may be in LD and thus have dependent effect sizes. To accurately assess independent effect sizes of larger groups of SNPs that may be in LD, we used the REML method,⁶ which requires individual genotype data. Reassuringly when applied to lead SNPs in loci identified by recent GWA studies of CAD,^{4,5} this method yielded assessments of heritability contributions similar to those obtained with the multifactorial liability threshold model used in those studies (Supplementary Figure 2).



Online Figure 1. Schematic illustration of conceivable interactions between genetic and environmental factors at the molecular level. Examples of how environmental factors can interact with transcriptional factors to alter gene regulation at the molecular level. G, genetic risk variant; E, environmental risk factor; GxE, G/E interactions; H^2 , broad sense heritability; TF, transcription factor



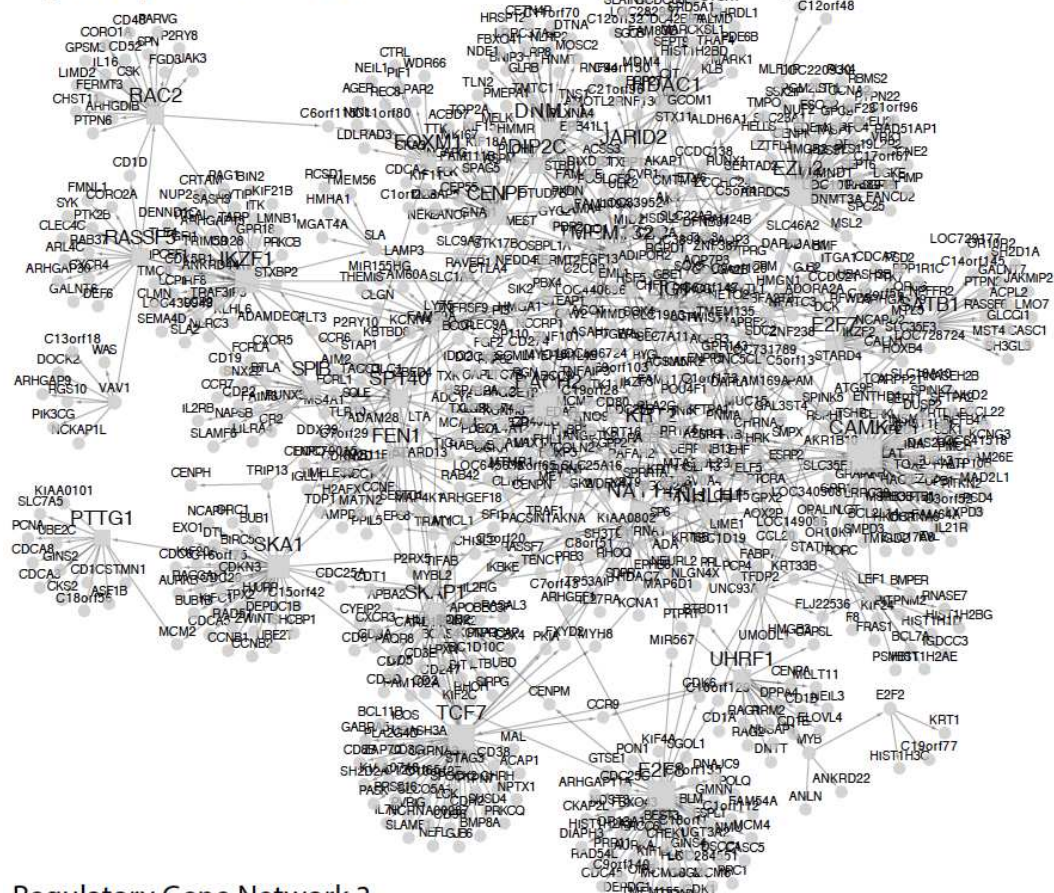
Online Figure 2. Comparison of CAD heritability assessments from common CAD risk loci using the methods based on individual, versus the summary, statistic genotype data. Bar plots representing the relative contributions to CAD heritability (h^2) from the 302 and 202 FDR loci identified in recent GWA studies using the traditional multifactorial liability threshold model based on summary statistics data (red)^{4,5} and REML based on individual-level genotype data (blue). h^2 error bars for REML are standard error of mean; no error estimates are available for summary statistics



Online Figure 3. Reproducibility of STAGE networks in STARNET RNA-seq data assessed by permutation tests. The average connectivity (absolute Pearson's correlation) is compared to a null distribution for genes matched for tissue and RNA categories such as protein-coding and lincRNA. In total, 98 out of 171 co-expression network modules were validated, showing significantly higher connectivity than expected at random ($P < 0.05$).

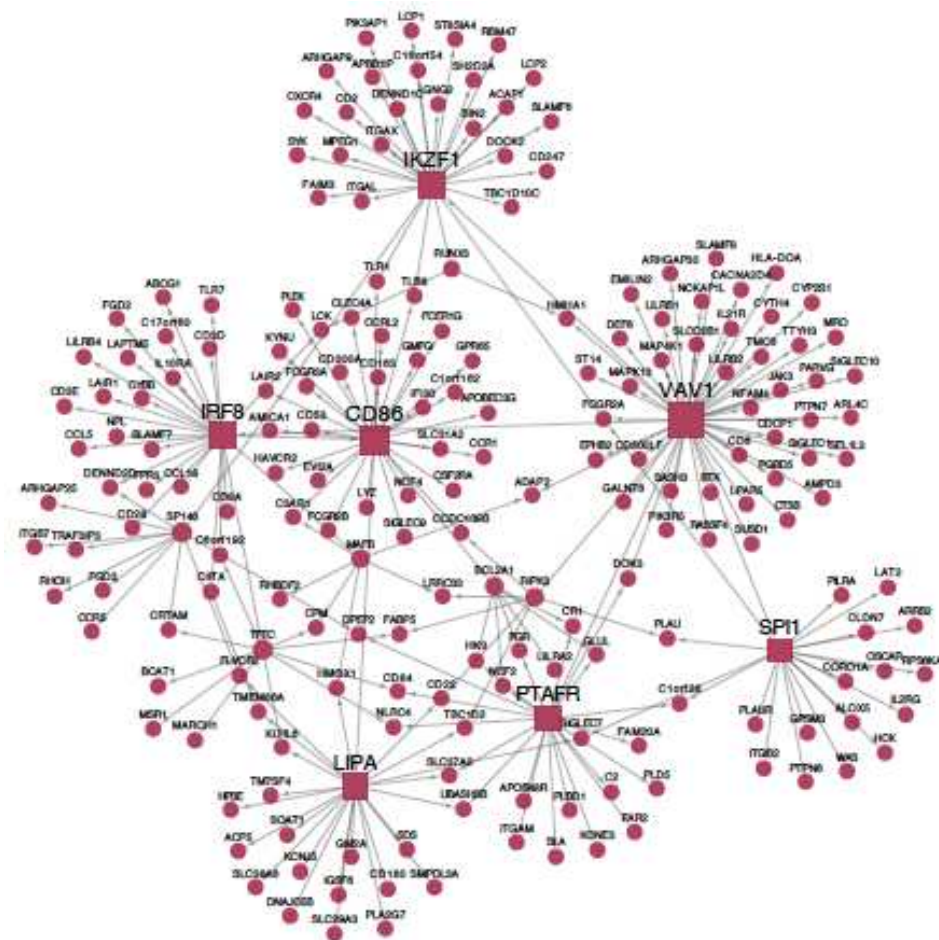
Online Figure 4. Shown are 18 tissue-specific (>95 % of nodes from ^{All modules} one tissue) regulatory gene networks (**A-R**) with key disease drivers that were originally identified in the STAGE study⁷ and replicated in the STARNET study¹ with contributions to CAD heritability >0.2% per network.

Regulatory Gene Network 2

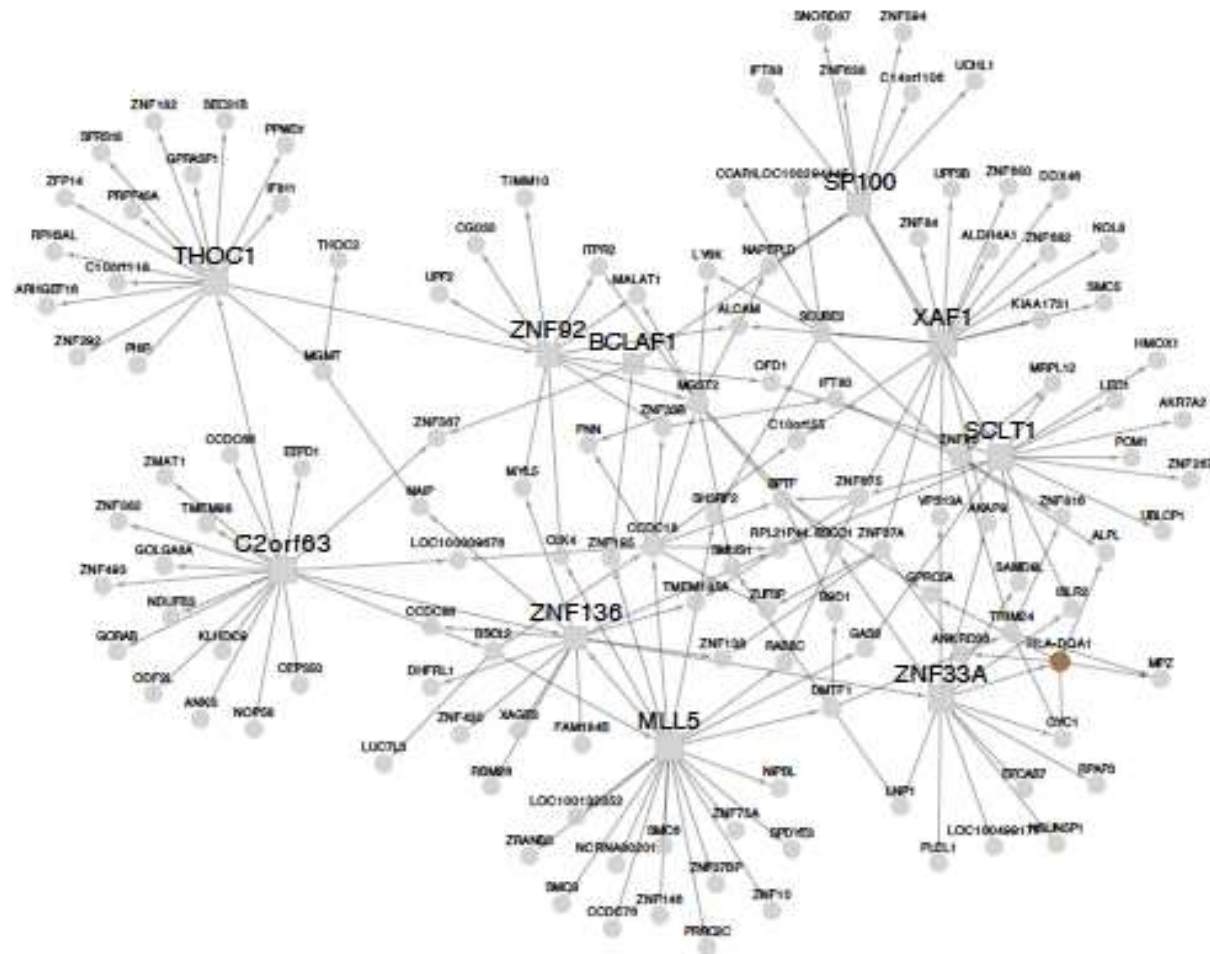


Regulatory Gene Network 3

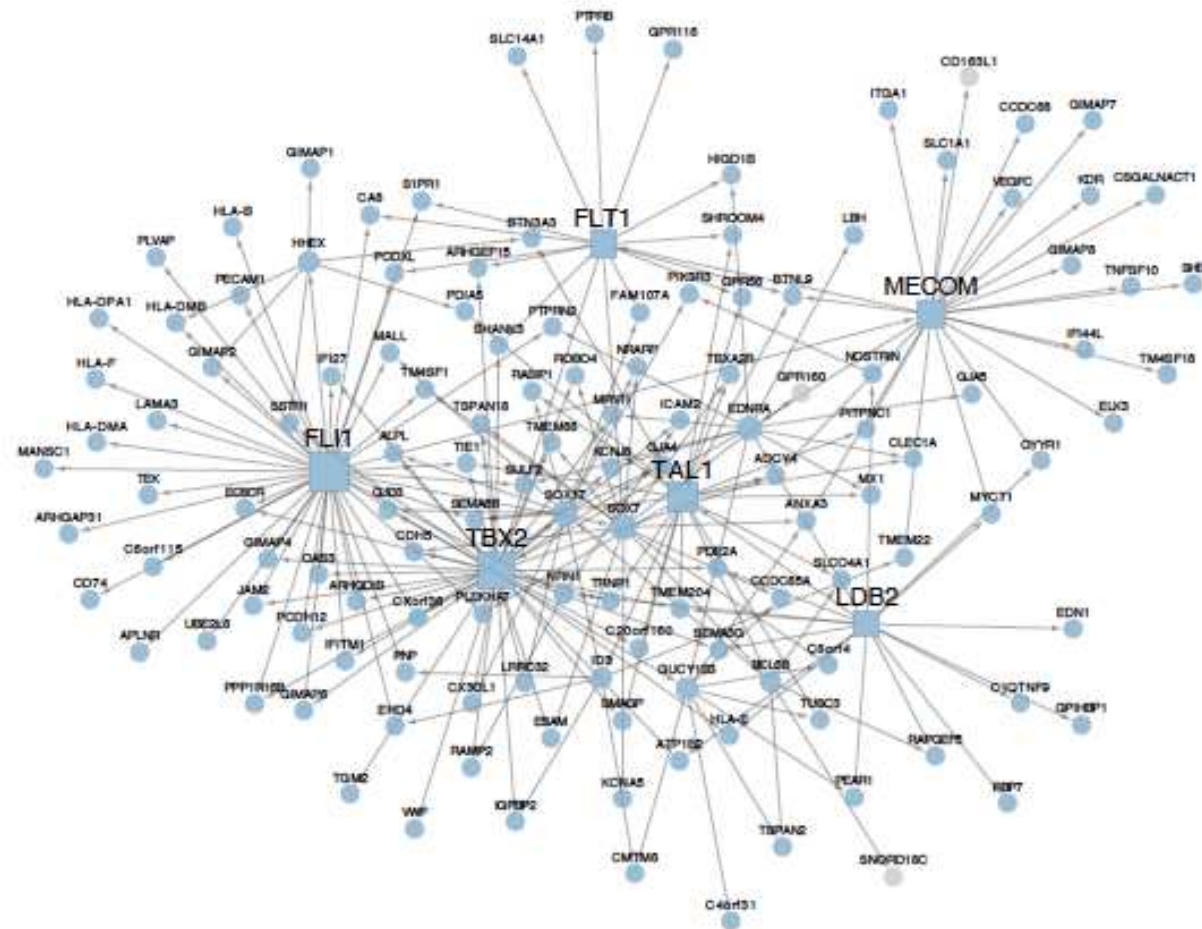
- A. Regulatory Gene Network, ID 2.** A visceral abdominal fat network, with 841 genes and 28 key disease drivers, that contributes to 1.82% of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to gene ontology (GO), this network is enriched for genes involved in the cell cycle ($P < 1.02e^{-33}$) and associated with degree of coronary atherosclerosis in CAD patients of the STAGE study ($P < 0.02$). eSNPs of these network genes are enriched for association with plasma levels of HDL (2.64 fold, $P < 2.09e^{-14}$). This network contain the following GWA candidate genes; COL4A1 (for CAD), PBX4 (for plasma levels of total cholesterol and LDL), KANK2 (HDL), UBASH3B (HDL and total cholesterol) and A2ML1, FAM117B (total cholesterol). Other GWA candidate genes are AMPD3, CR2, KIF11, IKZF1, MSR3, PLS1, PRC1, RASGRP1 and SYK. A total of 33 % of the network genes have in some fashion been associated with CAD or atherosclerosis in previous studies



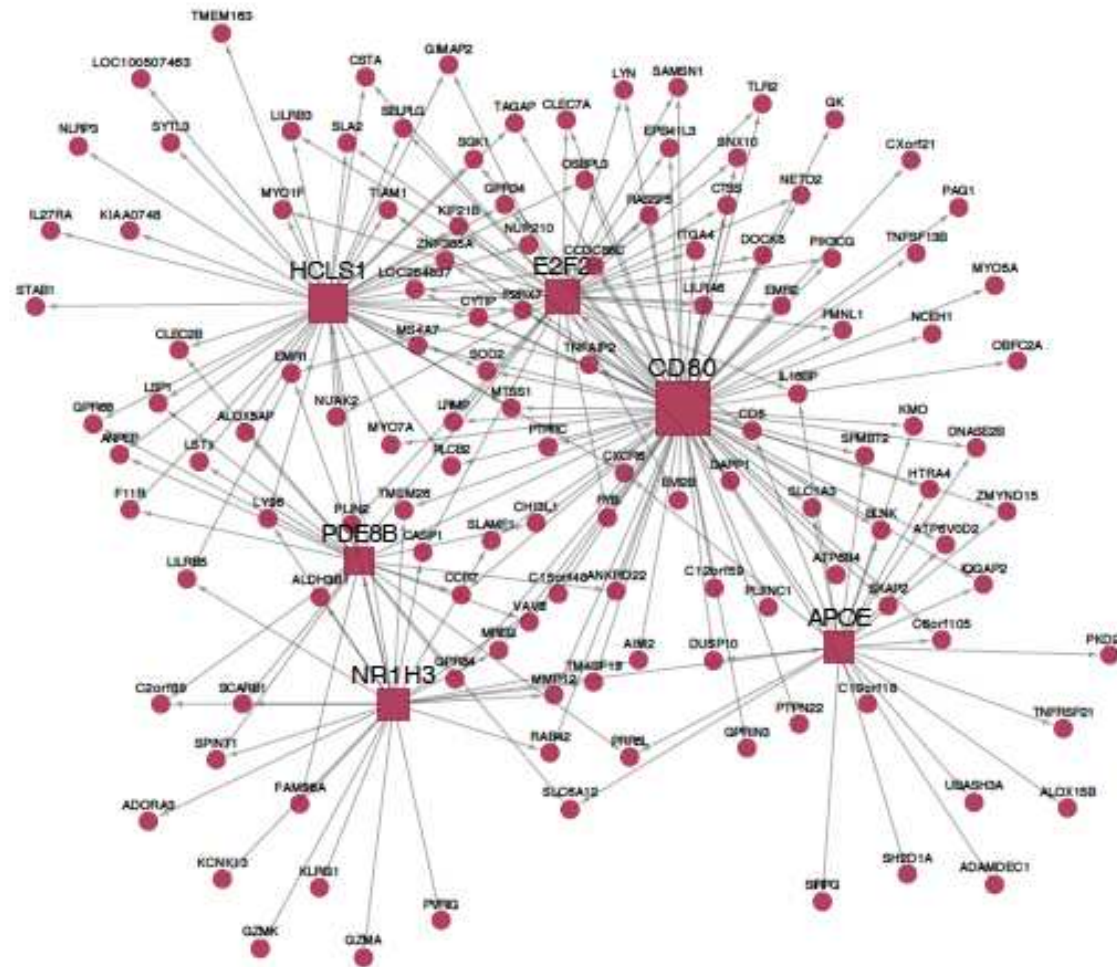
C. Regulatory Gene Network, ID 20. An atherosclerotic aortic wall network with 205 genes and 7 key disease drivers, that contributes to **0.25%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is highly enriched for genes involved in immune responses ($P < 7.88e^{-30}$). The network genes are also found to be associated with levels of plasma LDL in the CAD patients of the STAGE study ($P < 0.01$) and in the Hybrid Mouse Diversity Panel (HMDP) ⁸ ($P < 0.0006$). This network also contains the following GWA candidate genes; *LIPA* (CAD), *MAFB* (LDL) and *ALOX5*, *LILRB22*, *UBASH3B* (HDL and pro-insulin). Other GWA candidate genes are *AMPD3*, *LILRB2*, *MRCH1* and *IK2F1*. A total of 49 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 2.08e^{-12}$).⁷



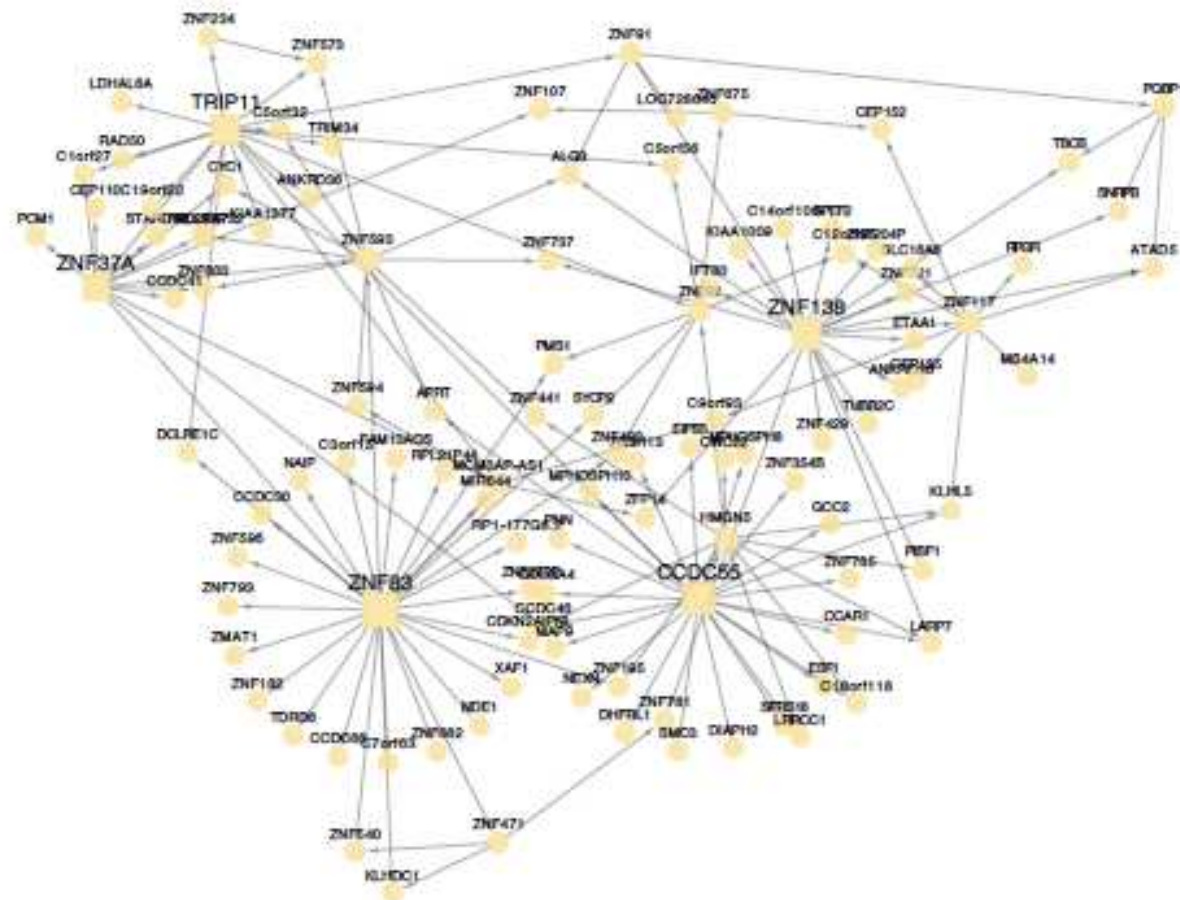
D. Regulatory Gene Network, ID 35 (also in Figure 5). A visceral abdominal fat network with 139 genes and 10 key disease drivers, that contributes to **0.57%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in RNA metabolic processes ($P < 1.17e^{-7}$). The network genes are also associated with levels of plasma LDL in the CAD patients of the STAGE study ($P < 0.01$) and in the HMDP⁸ ($P < 0.003$). eSNPs in this network's genes are strongly enriched for associations with plasma levels of LDL, HDL and pro-insulin (4.53 fold, $P < 1.99e^{-117}$, 2.81 fold, $P < 8.93e^{-33}$, 4.02 fold, $P < 3.75e^{-84}$, respectively) according to corresponding GWA studies⁷. There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷



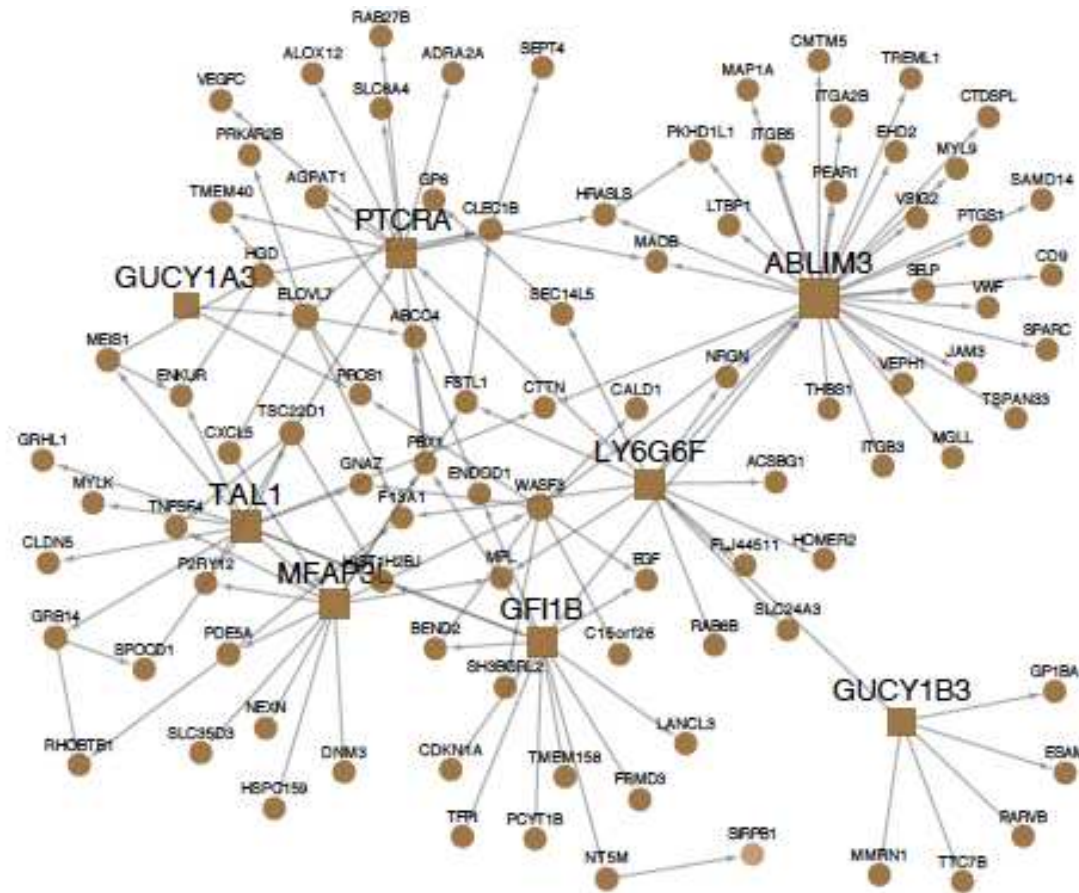
E. Regulatory Gene Network, ID 36. A skeletal muscle network with 137 genes and 6 key disease drivers, that contributes to **0.24%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in vascular development ($P < 2.45e^{-13}$). The network genes are also associated with levels of plasma total cholesterol, fasting glucose and C-reactive protein (CRP) in the CAD patients of the STAGE study ($P < 0.0006$, $P < 0.02$ and $P < 0.05$, respectively). This network also contains the following GWA candidate genes; *GUCY1B3*, *FLT1* and *EDNRA* (CAD) and *SOX17* (for total cholesterol and LDL). A total of 38 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P > 0.002$).⁷



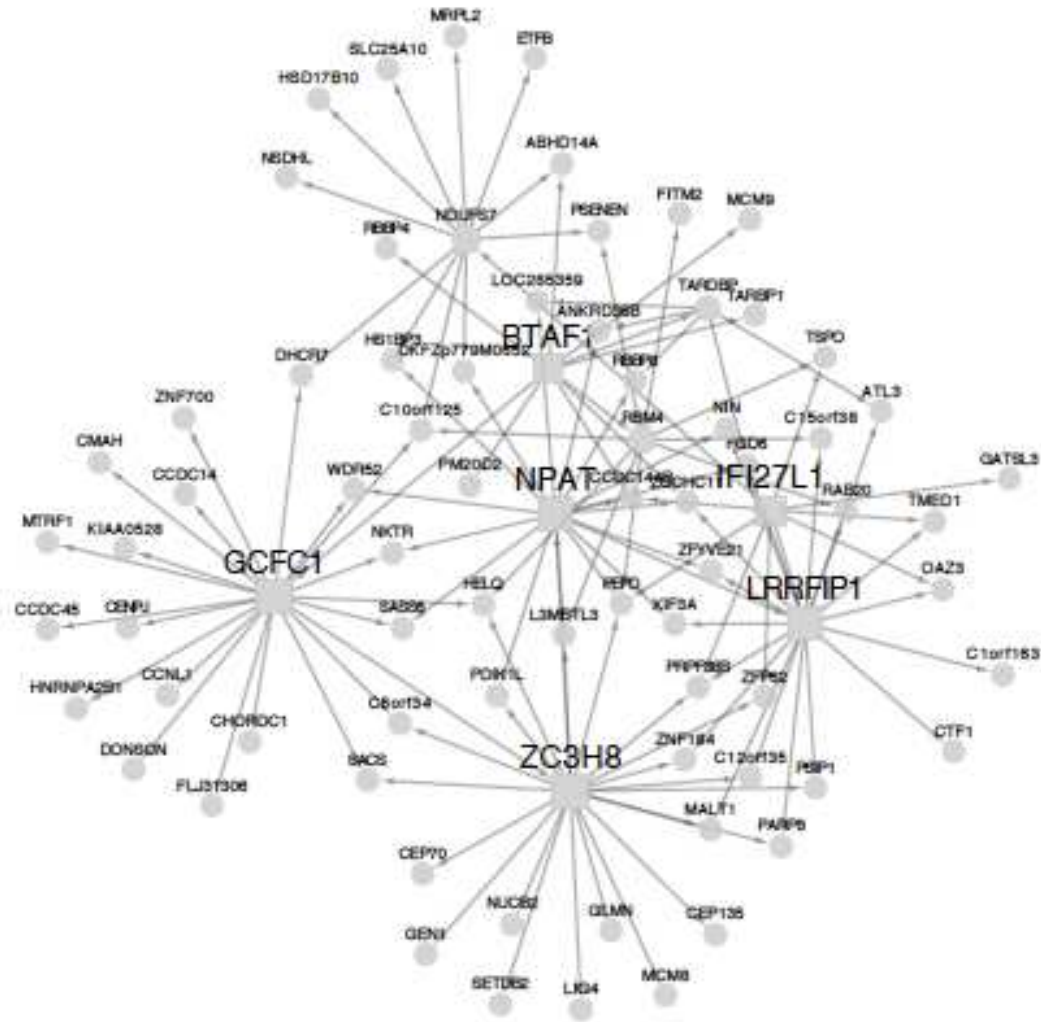
F. Regulatory Gene Network, ID 37. An atherosclerotic aortic wall network with 131 genes and 6 key disease drivers, that contributes to **0.26%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in cell communication ($P < 1.04e^{-11}$). The network genes are also associated with levels of plasma LDL and degree of coronary atherosclerosis in the CAD patients of the STAGE study ($P < 0.02$ and $P < 0.01$). This network also contains the following GWA candidate genes; *APOE* (CAD, LDL and HDL) and *SCARB1*, *NRIH3* and *STAB1* (HDL). A total of 40 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P > 0.00003$).⁷



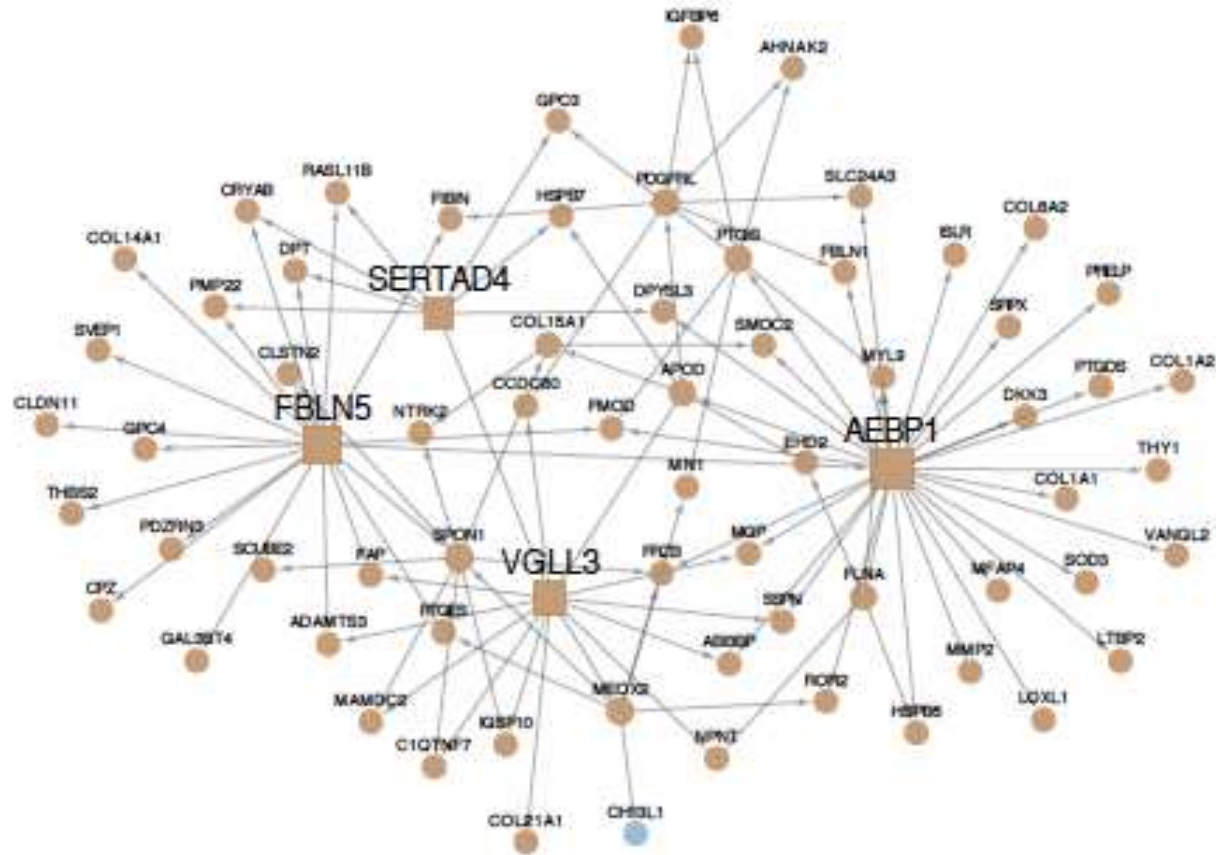
G. Regulatory Gene Network, ID 41 (also in Figure 4A). A none-(or early) atherosclerotic arterial wall network with 121 genes and 5 key disease drivers, that contributes to **0.64%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in RNA metabolic process ($P < 1.04e^{-10}$). The network genes are also associated with levels of plasma glucose and HDL and degree of coronary atherosclerosis in the CAD patients of the STAGE study ($P < 0.01$, $P < 0.03$, $P < 0.05$, respectively) and with mouse plasma LDL in the HMDP⁸ ($P < 0.0007$). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷



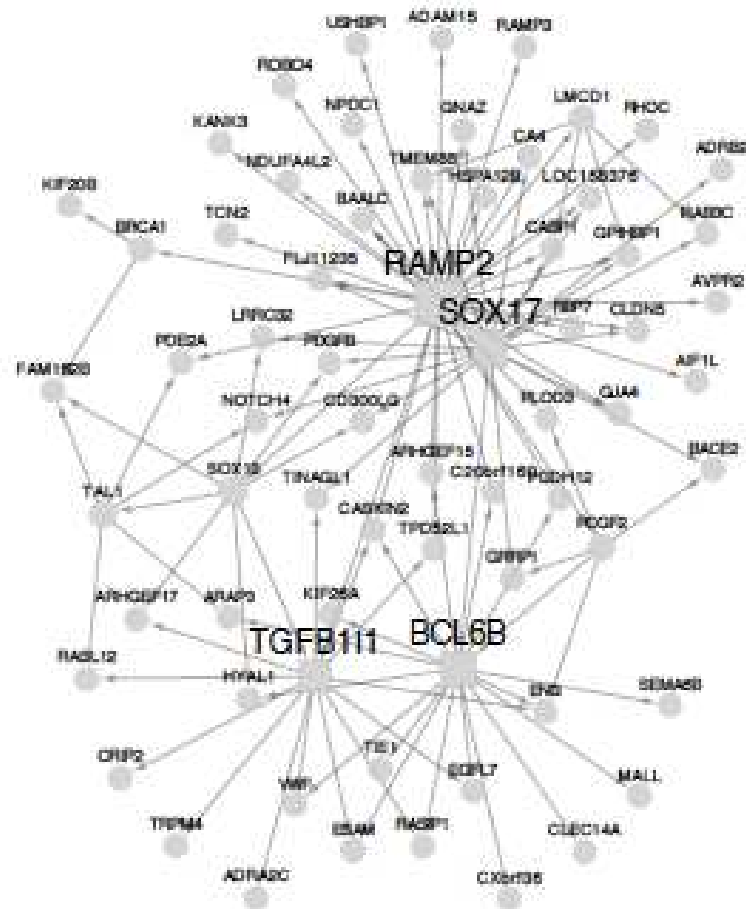
I. Regulatory Gene Network, ID 47 (also in Figure 4B). A whole blood network with 100 genes and 8 key disease drivers, that contributes to **0.41%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is strongly enriched for genes involved in blood coagulation ($P < 1.27e^{-19}$). The network genes are also associated with levels of total cholesterol in plasma of the CAD patients of the STAGE study ($P < 0.02$) and in the HMDP with plasma levels of LDL ($P < 0.03$) and insulin ($P < 0.0001$). eSNPs in this network's genes are strongly enriched for associations with plasma levels of LDL, HbA1c, and insulin (2.35 fold, $P < 2.31e^{-21}$, 2.66 fold, $P < 1.28e^{-30}$ and 1.54 fold, $P < 7.10e^{-5}$, respectively) according to corresponding GWA studies⁷. This network also contains the following GWA candidate genes; *GUCY1A3*, *GUCY1B3* (LDL) and *GRB14* (insulin) and *AIDR2A* (glucose). A total of 52 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 4.66e^{-8}$).⁷



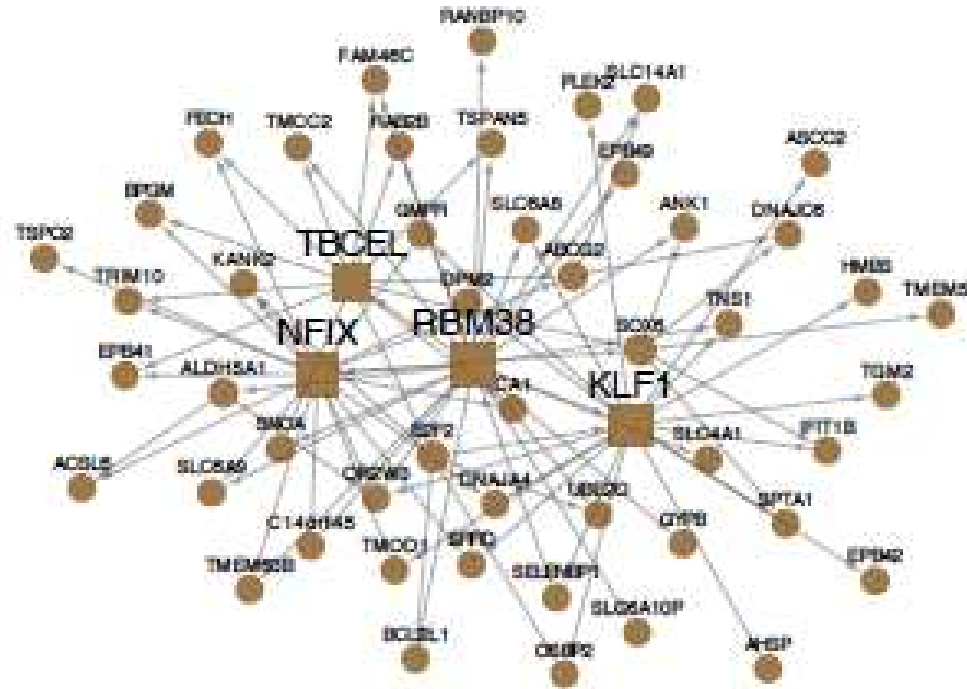
J. Regulatory Gene Network, ID 63. A visceral abdominal fat network with 79 genes and 6 key disease drivers, that contributes to **0.58%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is weakly enriched for genes involved in cell cycle phase transition ($P < 1.01 \times 10^{-3}$). The network genes are also associated with levels of CRP in the CAD patients of the STAGE study ($P < 0.04$). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷



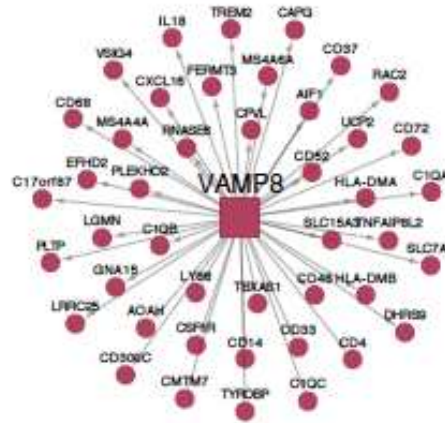
K. Regulatory Gene Network, ID 73. A liver network with 70 genes and 4 key disease drivers, that contributes to **0.22%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in cell adhesion ($P < 7.09e^{-13}$). The network genes are also associated with levels of plasma cholesterol and HDL in the CAD patients of the STAGE study ($P < 0.01$ and $P < 0.05$) and in the HMDP with mouse plasma LDL levels ($P > 0.0002$). eSNPs in this network's genes are enriched for associations with plasma levels of glucose and strongly for HbA1c (2.86 fold, $P < 8.08e^{-6}$, 10 fold, $P < 1.49e^{-104}$, respectively) according to corresponding GWA studies⁷. This network also contains one GWA candidate gene, *SVEP1*. A total of 61 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 1.21e^{-12}$).⁷



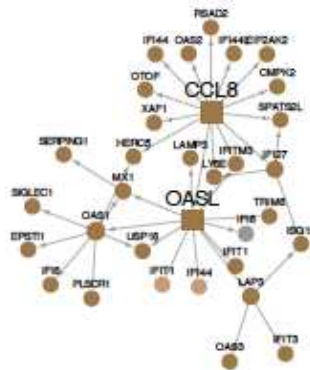
L. Regulatory Gene Network, ID 76. A visceral abdominal fat network with 68 genes and 4 key disease drivers, that contributes to **0.23%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in angiogenesis ($P < 2.90e^{-5}$). The network genes are also associated with levels of LDL and degree of coronary atherosclerosis in the CAD patients of the STAGE study ($P < 0.01$ and $P < 0.0003$). eSNPs in this network's genes are enriched for associations with plasma levels of glucose (4.29 fold, $P < 4.90e^{-23}$) according to corresponding GWA studies ⁷. This network also contains one GWA candidate gene, *Sox17* (LDL and total cholesterol). A total of 38 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 0.02$).⁷



M. Regulatory Gene Network, ID 94. A whole blood network with 53 genes and 4 key disease drivers, that contributes to **0.25%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in erythrocyte homeostasis ($P < 5.12e^{-8}$). The network genes are also associated with levels of CRP in the CAD patients of the STAGE study ($P < 0.04$). This network also contains one GWA candidate gene, *KANK2* (HDL). A total of 38 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 0.05$).⁷

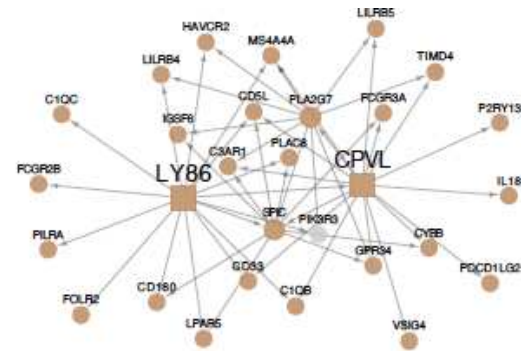


O. Regulatory Gene Network, ID 103 (also in Figure 4B). An atherosclerotic aortic wall network with 45 genes and 1 key disease driver, that contributes to **0.33%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is weakly enriched for genes involved in defense response ($P < 3.50e^{-9}$). The network genes are also associated with levels of HDL and pro-insulin in the CAD patients of the STAGE study ($P < 0.03$ and $P < 0.01$, respectively) and in the HMDP with mouse plasma LDL levels ($P < 0.001$). This network also contains two GWA candidate genes, *PLTP* (HDL) and *VAMP8* (CAD). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷

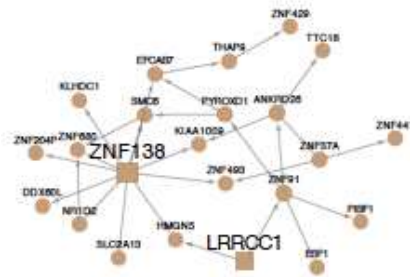


P. Regulatory Gene Network, ID 128. A liver network with 33 genes and 2 key disease drivers, that contributes to **0.26 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is strongly enriched for genes involved in type-1 interferon signaling pathway ($P < 6.49e^{-22}$). eSNPs of this network's genes are weakly enriched for associations with plasma levels of HbA1c and pro-insulin (1.37 fold, $P < 2.38e^{-2}$ and 1.44 fold, $P < 7.68e^{-3}$, respectively) according to corresponding GWA studies⁷. This network also contains the

following GWA candidate gene; *OAS3* (unknown). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P>0.05$).⁷

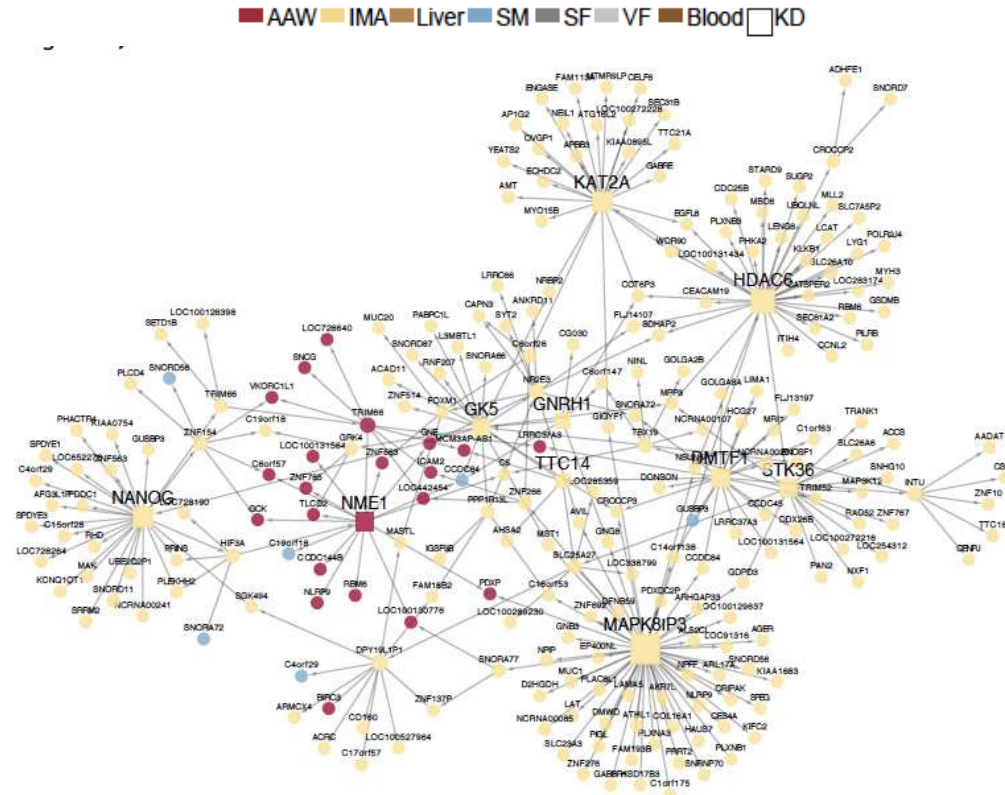


Q. Regulatory Gene Network, ID 144. A liver network with 29 genes and 2 key disease drivers, that contributes to **0.25%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in immune response ($P<7.96e^{-5}$). The network genes are also associated with levels of total cholesterol and strongly with CRP in the CAD patients of the STAGE study ($P<0.02$ and $P<0.00005$, respectively). This network also contains one GWA candidate gene, *TIMD4* (total cholesterol and triglycerides). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P>0.05$).⁷

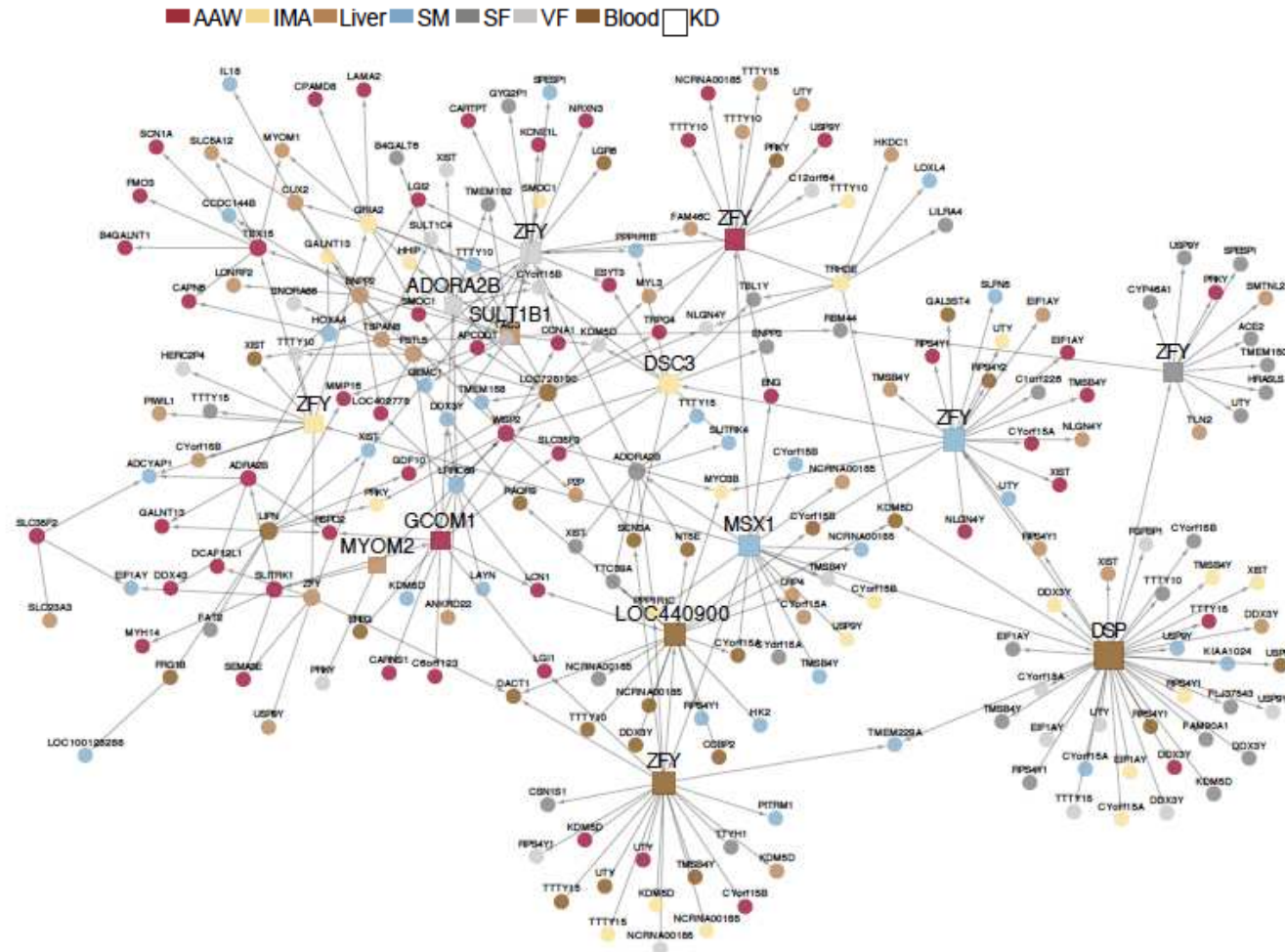


R. Regulatory Gene Network, ID 157. A liver network with 23 genes and 2 key disease drivers, that contributes to **0.32%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is weakly enriched for genes involved in DNA binding ($P < 1.90e^{-3}$). eSNPs in this network's genes are enriched for associations with plasma levels of LDL, total cholesterol and triglycerides and HbA1c (3.30 fold, $P < 8.97e^{-34}$, 2.45 fold, $P < 9.54e^{-14}$, 2.89 fold, $P < 1.30e^{-23}$ and 2.27 fold, $P < 4.61e^{-10}$, respectively) according to corresponding GWA studies⁷. There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷

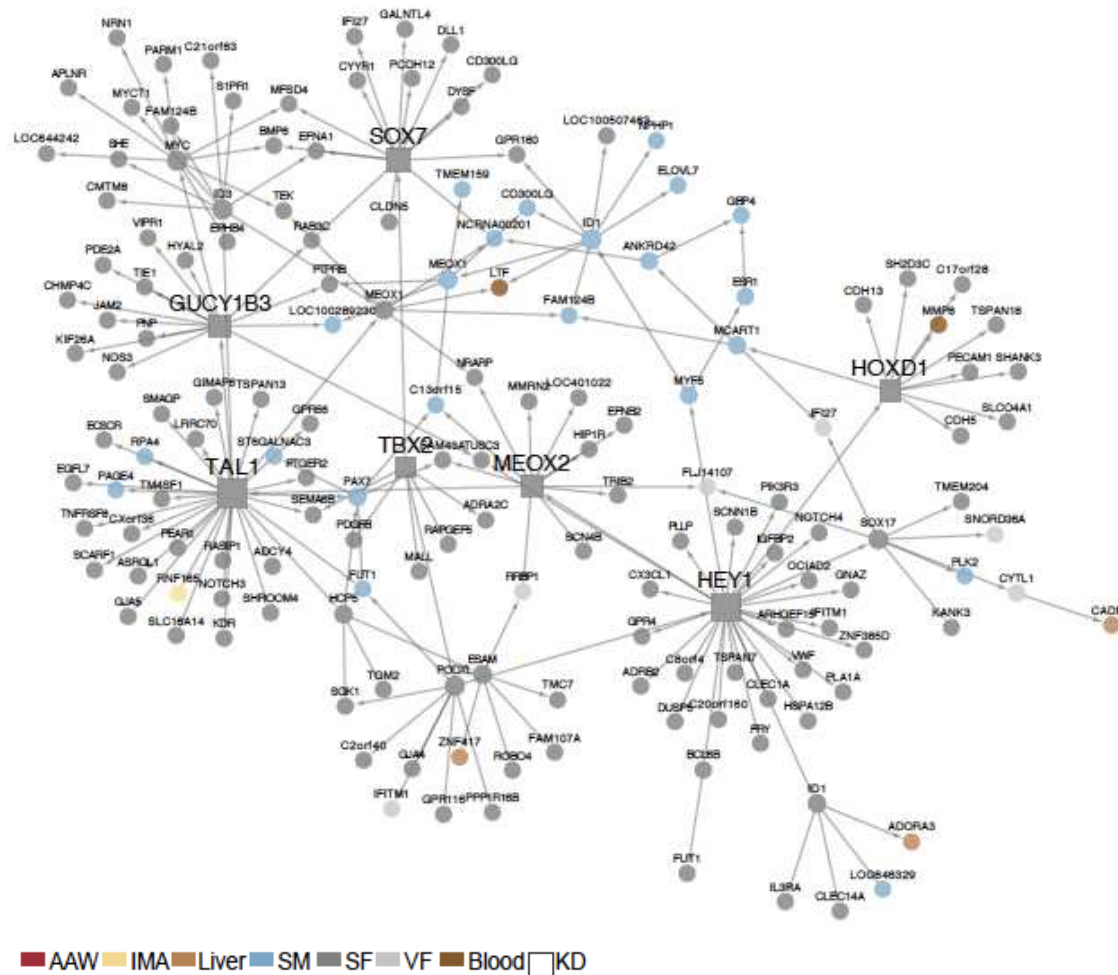
Online Figure 5. Shown are 11 cross-tissue (<95 % of nodes from one tissue) regulatory gene networks (**A-J**) with key disease drivers that were originally identified in the STAGE study⁷ and replicated in the STARNET study¹ with contributions to CAD heritability >0.2% per network.



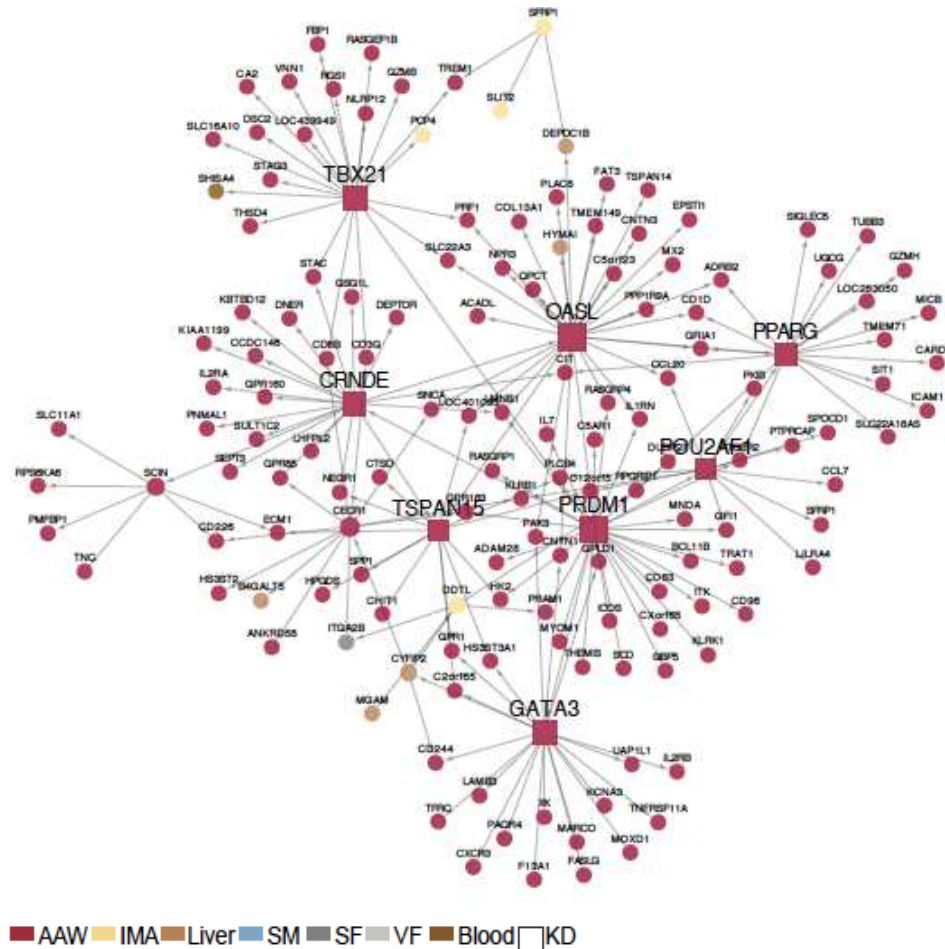
A. Regulatory Gene Network, ID 12. An arterial wall network (including nodes/genes from both none/early (internal mammary artery, yellow) and late advanced (aortic wall, red) atherosclerosis with 246 genes and 10 key disease drivers contributing to **1.15%** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). This network was not enriched for genes in any known functional category according to gene ontology (GO) but associated with degree of coronary atherosclerosis in CAD patients of the STAGE study ($P < 0.03$). eSNPs of this network genes are enriched for association with plasma levels of total cholesterol, LDL and triglycerides (2.26 fold, $P < 2.19e^{-16}$, 2.20 fold, $P < 5.70e^{-16}$ and 1.69 fold, $P < 1.13e^{-6}$, respectively) according to corresponding GWA studies⁷. This network also contains the following GWA candidate genes; *ACAD11* (for plasma levels of LDL and HDL), *LACT1* (HDL), *GCK* (fasting glucose) and *C6orf57* (unknown). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷



B. Regulatory Gene Network, ID 13. A cross-tissue (i.e., arterial wall, liver skeletal muscle and fat) network with 227 genes and 14 key disease drivers, that contributes to **0.77 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is slightly enriched for genes involved in scavenger receptor activity ($P < 3.76e^{-4}$). eSNPs of this network genes are enriched for association with plasma levels of total triglycerides, fasting glucose and HbA1c (1.41 fold, $P < 2.83e^{-5}$, 1.81 fold, $P < 6.35e^{-16}$ and 1.71 fold, $P < 1.46e^{-14}$, respectively) according to corresponding GWA studies⁷. This network also contains the following GWA candidate genes; *LRP14* (HDL) and *MMP16*, *TSPAN8* (unknown). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$)⁷.



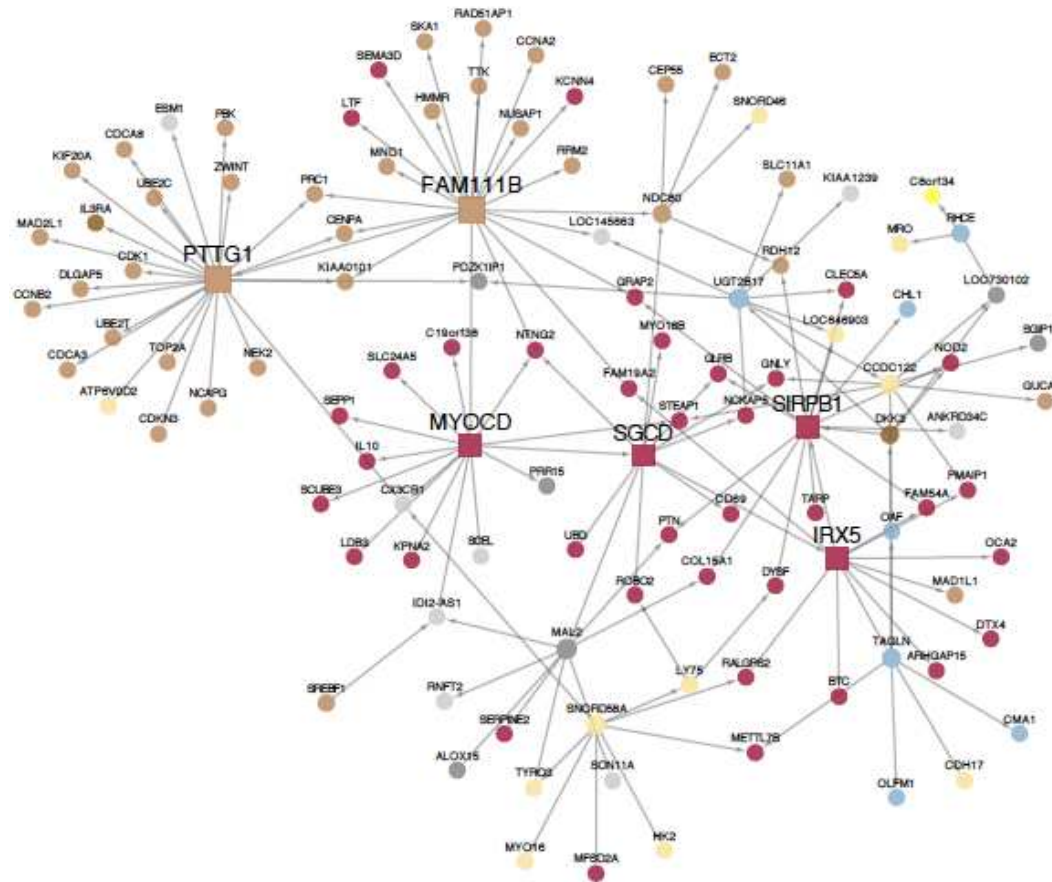
D. Regulatory Gene Network, ID 27. A cross-tissue (mostly subcutaneous fat and skeletal muscle nodes/genes) network with 165 genes and 7 key disease drivers, that contributes to **0.45 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in blood vessel development ($P < 8.76e^{-18}$). The network genes were also associated with plasma levels of blood insulin and LDL in the CAD patients ($P < 0.02$ and $P < 0.03$) of the STAGE study⁷ and with mouse plasma LDL in the HMDP⁸ ($P < 0.00004$). This network also contains the following GWA candidate genes; *GUCY1B3* (CAD), *SOX17* (LDL) and *GALNTL4* (unknown). A total of 37 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 0.002$).⁷



E. Regulatory Gene Network, ID 29. A cross-tissue (mainly early/no and advanced atherosclerosis arterial wall nodes/genes) network with 152 genes and 8 key disease drivers, that contributes to **0.28 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in regulation of immune system processes ($P < 3.06 \times 10^{-13}$). The network genes were also associated with plasma levels of HbA1c in the CAD patients ($P < 0.05$) of the STAGE study⁷ and eSNPs of this network genes are enriched for association with plasma levels of total triglycerides, HDL and fasting glucose (2.31 fold, $P < 4.05 \times 10^{-9}$, 1.95 fold, $P < 2.80 \times 10^{-5}$ and 3.49 fold, $P < 3.03 \times 10^{-30}$, respectively) according to corresponding GWA studies. This network also contains the following GWA candidate genes; *RASGRP1*, *PPARG* and *DNER* (unknown). A total of 45 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 2.95 \times 10^{-7}$).⁷

■ AAW ■ IMA ■ Liver ■ SM ■ SF ■ VF ■ Blood □ KD

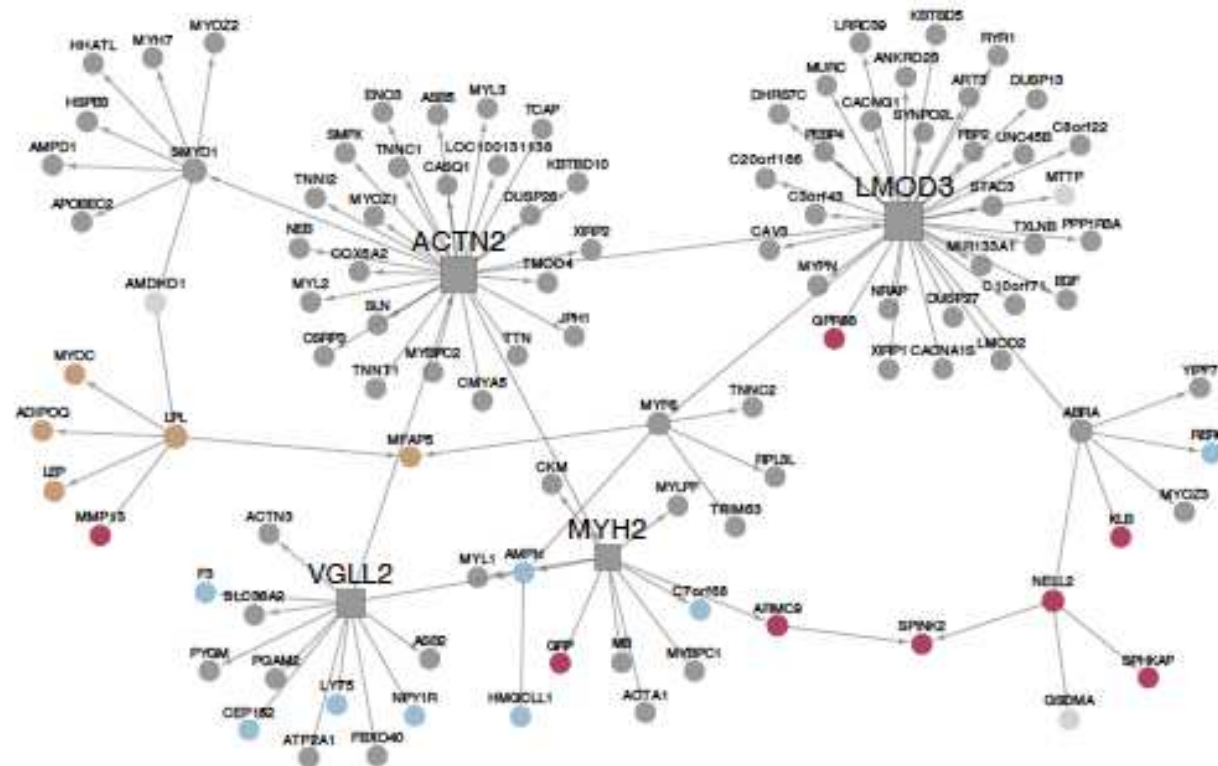
All_modules



F. Regulatory Gene Network, ID 38. A cross-tissue (mainly early/no and advanced atherosclerosis arterial wall, liver and skeletal muscle nodes/genes) network with 113 genes and 6 key disease drivers, that contributes to **0.24 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes involved in cell division ($P < 6.14e^{-12}$). eSNPs of this network genes are strongly enriched for associations with plasma levels of total triglycerides, total cholesterol and LDL, and weakly associated with plasma levels of pro-insulin and fasting insulin (4.19 fold, $P < 1.23e^{-157}$, 2.42 fold, $P < 8.83e^{-32}$, 1.91 fold, $P < 2.73e^{-14}$, 1.73 fold, $P < 1.701e^{-8}$ and 1.37 fold, $P < 7.718e^{-4}$, respectively) according to corresponding GWA studies.⁷ This network also contains the following GWA candidate genes; *CHC1* (insulin) and *PRC1* (unknown). A total of 36 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 0.02$).⁷

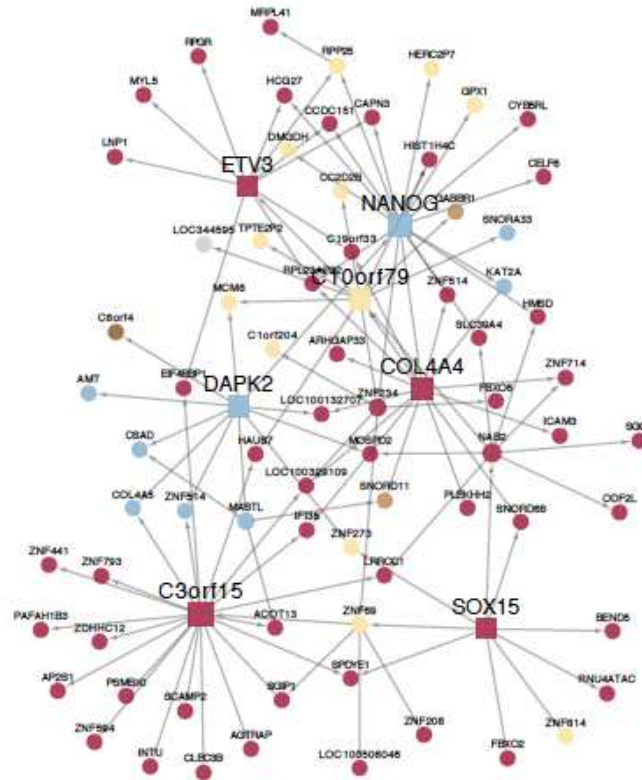
■ AAW ■ IMA ■ Liver ■ SM ■ SF ■ VF ■ Blood □ KD

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G. Regulatory Gene Network, ID 43. A cross-tissue (mainly subcutaneous fat nodes/genes) network with 108 genes and 4 key disease drivers, that contributes to **0.36 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is strongly enriched for genes involved in actin-myosin filament sliding ($P < 8.25e^{-26}$). eSNPs of this network genes are strongly enriched for associations with plasma levels of total cholesterol, LDL and HDL (5.94 fold, $P < 7.31e^{-138}$, 3.28 fold, $P < 7.16e^{-27}$ and 4.28 fold, $P < 6.35e^{-277}$, respectively) according to corresponding GWA studies.⁷ This network also contains the following GWA candidate genes; *LPL* (HDL and triglycerides) and *MYL2* (HDL). A total of 55 % of the genes in this network have in some fashion been associated with CAD or atherosclerosis in previous studies ($P < 4.84e^{-10}$).⁷

■ AAW ■ IMA ■ Liver ■ SM ■ SF ■ VF ■ Blood □ KD



H. Regulatory Gene Network, ID 62. A cross-tissue (mainly early/no and advanced atherosclerosis arterial wall and skeletal muscle nodes/genes) network with 80 genes and 7 key disease drivers, that contributes to **0.41 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is weakly enriched for genes involved in regulation of satellite cell activation involved in muscle regeneration ($P < 8.08e^{-3}$). The network genes were also associated with degree of coronary atherosclerosis in CAD patients of the STAGE study ($P < 0.04$).⁷ eSNPs of this network genes are remarkably enriched for associations with plasma levels of triglycerides, total cholesterol and LDL (8.12 fold, $P < 7.31e^{-208}$, 6.93 fold, $P < 3.42e^{-208}$ and 5.69 fold, $P < 3.73e^{-119}$, respectively) according to corresponding GWA studies.⁷ This network also contains the following GWA candidate gene; *HIST1H4C* (LDL). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷

■ AAW ■ IMA ■ Liver ■ SM ■ SF ■ VF ■ Blood □ KD



- J. Regulatory Gene Network, ID 112.** A cross-tissue (mainly liver and fat nodes/genes) network with 40 genes and 2 key disease drivers, that contributes to **0.38 %** of CAD heritability (beyond that of genome-wide significant and FDR loci identified by previous CAD GWA studies). According to GO, this network is enriched for genes acting as intrinsic components of the plasma membrane ($P < 2.30e^{-6}$). The network genes were also associated with plasma levels of pro-insulin in CAD patients of the STAGE study ($P < 0.01$)⁷ and with mouse plasma insulin and glucose in the HMDP⁸ ($P < 0.003$ and $P < 0.005$). eSNPs of this network's genes are enriched for associations with plasma levels of triglycerides, total cholesterol and HDL (3.32 fold, $P < 7.20e^{-31}$, 1.84 fold, $P < 2.84e^{-5}$ and 2.49 fold, $P < 6.39e^{-14}$, respectively) according to corresponding GWA studies.⁷ This network also contains the following GWA candidate genes; *LDLR* (CAD, total cholesterol, LDL and HDL) and *CETP* (unknown). There was no significant enrichment with genes that have been associated with CAD or atherosclerosis in previous studies ($P > 0.05$).⁷

Online Table 1. Genotype Platforms of the Studies

Study	Platform
GerMIFSI	Affymetrix Mapping 500K Array Set
GerMIFSI	Affymetrix Genome-Wide Human SNP Array 6.0
GerMIFSI	Affymetrix Genome-Wide Human SNP Array 5.0/ Affymetrix Genome-Wide Human SNP Array 6.0
GerMIFSI	Affymetrix Genome-Wide Human SNP Array 6.0
GerMIFSV	Illumina HumanOmniExpress/Omniuni_2.5/Omni_Express
LURIC	Affymetrix Genome-Wide Human SNP Array 6.0
MIGEN	Affymetrix Mapping 500K Array Set
WTCCC	Affymetrix Genome-Wide Human SNP Array 6.0
Cardiogenics	Illumina Human660W-Quad
STAGE	Affymetrix Genome-Wide Human SNP Array 6.0
STARNET	Illumina HumanOmniExpress/Omniuni_2.5/Omni_Express

Online Table 2. GWAS lead SNP and STAGE/STARNET network and eSNP CAD heritability contributions

Source	SNP/network list	# lead SNPs/ CAD networks	CAD Variance	standard error	P-value	% of total CAD heritability (h ²):				
						total	per network**	per GWAS SNP/network eSNP**	per bkgr GTE eSNP***	Fold vs.bkgr GTE eSNPs****
GWAS	imputed SNPs from GWAS	4 065 644	0.312215	0.011894	0	78.05	N/A	0.00028	N/A	N/A
	lead SNPs of genome-wide significant loci	42 (59)*	0.0218	0.0049	0	5.46	N/A	0.130	N/A	N/A
	extended FDR<5% SNPs	99 (202)*	0.0309	0.0046	0	7.73	N/A	0.078	N/A	N/A
	Lead and FDR<5% SNPs	119 (250)*	0.0348	0.0048	0	8.71	N/A	0.073	N/A	N/A
STAGE/ STARNET Networks	All networks	98	0.0475	0.0041	0	11.87	0.12	0.0055	0.0022	2.49
	top-networks (>0.2% h ²)	28(98)	0.0399	0.0037	0	9.98	0.36	0.0072	0.0023	3.12
	fat networks	9(28)	0.0201	0.0027	0	5.03	0.56	0.0073	0.0027	2.67
	non-fat networks	19(28)	0.0267	0.0031	0	6.67	0.35	0.0077	0.0021	3.62
	arterial wall networks	7(28)	0.0126	0.0021	9.05E-15	3.14	0.45	0.0086	0.0029	2.96
	liver networks	3(28)	0.0031	0.0010	2.91E-06	0.78	0.26	0.0144	0.0034	4.28
	cross-tissue networks	5(28)	0.0099	0.0020	2.60E-09	2.47	0.49	0.0115	0.0024	4.89
	skeletal muscle network	1(28)	0.0010	0.0006	0.01604	0.26	0.26	0.0056	0.0026	2.18
whole blood networks	3(28)	0.0037	0.0011	2.63E-06	0.93	0.31	0.0050	0.0025	2.01	

H², % CAD heritability contributions. For all the network-derived H² estimates, the CAD GWAS lead SNPs including SNPs with r²>0.2 in the flanking ±500kb regions, were excluded prior to calculation.

*Number of lead SNPs present in the GWA data of this study related to actual number found in the original GWA study (in paranthesis). **shows average CAD H² contributions per GWAS SNP and network eSNP

shows average CAD H² contributions from equally sized groups of random background eSNP matched by tissue (n>100) obtained from GTE. *P<0.001

Online Table 6. Top-28 module gene IDs and their characteristics
 (See separate PDF file)

Supplementary Table 6. Module gene IDs and characteristics

Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	ADA	VF							
2	BLM	VF							
2	CD3G	VF							
2	CDK4LG	VF							
2	CHRNA1	VF							
2	F8	VF							
2	GBE1	VF							
2	IL2RG	VF							
2	JAK3	VF							
2	KCNA1	VF							
2	KRT19	VF							
2	SCCB	VF							
2	LIG1	VF	X		X				
2	GPR143	VF							
2	PDE6B	VF							
2	TSHR	VF							
2	WAS	VF							
2	KRT2	VF	X		X				
2	PAFAH2	VF							
2	PON1	VF							
2	RAG1	VF	X	X					
2	TWIST1	VF							
2	AMPD3	VF							
2	RAG2	VF							
2	LTA	VF							
2	ADORA2A	VF							
2	CD3D	VF							
2	CD3E	VF							
2	CD247	VF							
2	CHRNA3	VF							
2	CHRNA5	VF	X						
2	DCK	VF							
2	GABRA5	VF							
2	GLRB	VF							
2	IL2RB	VF							
2	PAM	VF							
2	PRIM1	VF							
2	PRL	VF							
2	NCERP1	VF							
2	RORC	VF		X					
2	C9orf103	VF							
2	RUNX1	VF		X					
2	UBASH3A	VF							
2	GATA3	VF		X					
2	CENPM	VF							
2	C1orf173	VF							
2	C18orf1	VF							
2	TARP	VF							
2	BMF	VF							
2	OR13A1	VF							
2	UMODL1	VF							
2	OR10R2	VF							
2	OR10K1	VF							
2	SP140	VF		X	X				
2	RGS10	VF							
2	AK4	VF							
2	ZWINT	VF							
2	CPM	VF							
2	HAO2	VF							
2	RAB37	VF							
2	CR2	VF							
2	APOBEC3F	VF							
2	SF11	VF							
2	CKCR4	VF							
2	EML1	VF							
2	TDP1	VF							
2	STATH	VF							
2	LRRC38	VF							
2	TTC7B	VF							
2	THEMIS	VF							
2	BCAS4	VF							
2	BIRC5	VF							
2	ANOS	VF							
2	SGOL1	VF							
2	C18orf56	VF							
2	LAT	VF							
2	TLR10	VF							
2	ESCO2	VF							
2	CALN1	VF							

2	DNTT	VF							
2	BTBD11	VF							
2	DAP1	VF							
2	LRP8	VF							
2	GCOM1	VF							
2	FANCD2	VF							
2	HNMT	VF							
2	SBK1	VF							
2	RGPD1	VF							
2	BCL7A	VF							
2	ARPP21	VF							
2	CHI3L2	VF	X						
2	CXorf65	VF							
2	ARHGAP30	VF							
2	SLC35F1	VF							
2	FBXO43	VF							
2	KIAA0101	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	SPN	VF							
2	CERKL	VF							
2	MSRB3	VF							
2	RUNX3	VF		X					
2	STXBP1	VF							
2	TMPO	VF							
2	MYCL1	VF		X					
2	RRM2	VF							
2	FAM102A	VF							
2	ACPL2	VF							
2	SUSD4	VF							
2	CYFIP2	VF							
2	CTLA4	VF							
2	DIXDC1	VF							
2	PRPS2	VF							
2	SIRP6	VF							
2	SKA1	VF	X		X				
2	MTL5	VF							
2	ACBD7	VF							
2	D4S234E	VF							
2	OPALIN	VF							
2	SLAIN1	VF							
2	CENPA	VF							
2	MST4	VF							
2	DIAPH3	VF							
2	CD1E	VF							
2	MAPRK1	VF							
2	CAPSL	VF							
2	C19orf28	VF							
2	LCK	VF							
2	SLA	VF	X						
2	SRD5A1	VF							
2	STIL	VF							
2	RCC1	VF							
2	UHRF1	VF		X	X				
2	REC8	VF							
2	TOP2A	VF							
2	SKAP1	VF		X	X				
2	ZAP70	VF							
2	IKZF2	VF		X					
2	GYG2	VF							
2	ARHGAP9	VF							
2	FBXO41	VF							
2	CCDC88C	VF							
2	HSF5	VF		X					
2	CC2D2A	VF	X						
2	ARRDC5	VF							
2	PPP1R1C	VF							
2	CASC1	VF							
2	FGD3	VF							
2	DFNB31	VF							
2	BTLA	VF							
2	C17orf67	VF							
2	SFTPA1	VF							
2	GPR18	VF							
2	HDAC7	VF							
2	SFTPA2	VF							
2	TOX2	VF							
2	C9orf129	VF							
2	KIAA0748	VF							
2	TIFAB	VF							
2	FAMS4A	VF							
2	C12orf56	VF							

2	PSMB11	VF							
2	TROAP	VF							
2	CENPN	VF	X						
2	PNMAL1	VF							
2	LAMA4	VF							
2	PLXNA4	VF							
2	GJB6	VF							
2	ACVR1C	VF							
2	EZR	VF							
2	FANCI	VF							
2	SEPT9	VF							
2	DEPDC1	VF							
2	CHEK1	VF							
2	FOXP3	VF		X					
2	ITGAL	VF							
2	SH2D1A	VF							
2	BCOR	VF		X					
2	PTGER3	VF							
2	RACGAP1	VF							
2	CEP55	VF							
2	CSK	VF							
2	GF11	VF							
2	FAM119A	VF	X						
2	STXBP2	VF							
2	FXYD2	VF							
2	ASAH1	VF							
2	SPINK5	VF							
2	DTNA	VF							
2	RASGRP1	VF							X
2	NUSAP1	VF							
2	CCL20	VF							
2	MYB	VF		X					
2	APBA2	VF							
2	CLGN	VF							
2	HMG2	VF		X					
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	IPCEF1	VF							
2	LEF1	VF		X					
2	DNMT1	VF		X	X				
2	CDKN3	VF							
2	RAD51AP1	VF							
2	ARHGEF18	VF							
2	PLCH1	VF							
2	SATB1	VF		X	X				
2	SPOCK2	VF							
2	DDAH1	VF							
2	TCF7	VF		X	X				
2	FERMT2	VF							
2	SYK	VF							
2	MUC15	VF							
2	FAM60A	VF							
2	AGER	VF							
2	TMEM132C	VF	X		X				
2	LAX1	VF							
2	KANK2	VF							
2	C13orf77	VF							
2	FAM47E	VF							X
2	PARVG	VF							
2	FGF13	VF							
2	RNASEH2B	VF							
2	SEMA4D	VF							
2	FAIM3	VF							
2	C5orf13	VF							
2	RAD54L	VF							
2	HMMR	VF							
2	ULK2	VF							
2	FAM111B	VF							
2	CXCR3	VF							
2	MAPRE2	VF							
2	C12orf65	VF							
2	UNC93A	VF							
2	NDE1	VF							
2	CHRD1	VF							
2	RASSF7	VF							
2	LPXN	VF							
2	NPFFR2	VF							
2	NEODHL	VF							
2	DEPDC1B	VF							
2	ADAMDEC1	VF							
2	SLC17A8	VF							
2	CDK6	VF							

2	PLS1	VF							
2	MSL2	VF							
2	STMN1	VF							
2	C1orf228	VF							
2	CD8A	VF							
2	MKI67	VF							
2	SLC05A1	VF							
2	DLGAP5	VF							
2	FCRL1	VF							
2	FHL1	VF							
2	MGAT4A	VF							
2	CHFR	VF							
2	SH2D2A	VF							
2	TNIK	VF							
2	PYGL	VF							
2	RADS1	VF							
2	DLC1	VF							
2	SKA3	VF							
2	FRAS1	VF							
2	TRIP13	VF		X					
2	SSX2IP	VF							
2	TTK	VF							
2	UGT3A2	VF							
2	TMEM135	VF							
2	TMIGD2	VF							
2	CDK1	VF							
2	BACH2	VF		X	X				
2	C3orf52	VF							
2	IL16	VF							
2	CELF5	VF							
2	CHST11	VF							
2	NLRP2	VF							
2	ARHGDB	VF							
2	WDR66	VF							
2	BHMT2	VF							
2	CDC45	VF							
2	CD19	VF							
2	CD8B	VF							
2	TFDP2	VF		X					
2	SLAMF6	VF							
2	GHRH	VF							
2	FCRLA	VF							
2	NCKAP1L	VF							
2	SP110	VF							
2	CD22	VF							
2	GCT2	VF							
2	DOCK8	VF							
2	PLK4	VF							
2	ORC1	VF							
2	TRAF1	VF							
2	SYTL1	VF							
2	IKBKE	VF							
2	CORO1A	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	PTPN22	VF							
2	TMT1C1	VF							
2	SLC1A4	VF							
2	RAB42	VF							
2	C11orf70	VF							
2	ANKRD44	VF							
2	TP53AIP1	VF							
2	FAM64A	VF							
2	HSDL2	VF							
2	LMNB1	VF							
2	HLA-DQB2	VF							
2	MYO16	VF							
2	SGK2	VF							
2	CHRNA6	VF							
2	PACSN1	VF							
2	TMEM56	VF							
2	PTPN7	VF							
2	CENPO	VF							
2	SPRR1A	VF							
2	BUB1B	VF							
2	CAV2	VF							
2	CCNA2	VF							
2	CDC6	VF							
2	CDC20	VF							
2	DGKA	VF							
2	ELF5	VF		X					
2	FABP7	VF							

2	TNFRSF9	VF								
2	CXCR5	VF								
2	CAMM4	VF		X	X					
2	CCNF	VF								
2	CD1A	VF								
2	CD18	VF								
2	CD1C	VF								
2	CD1D	VF								
2	CD2	VF								
2	CD38	VF								
2	CD48	VF								
2	CDC25A	VF								
2	CDC25C	VF								
2	CDH2	VF								
2	CDKN2D	VF								
2	CDO1	VF								
2	CD52	VF								
2	CENPE	VF								
2	CKS2	VF								
2	CCR7	VF								
2	COL4A1	VF						X		
2	CTRL	VF								
2	ETV6	VF		X						
2	FGF2	VF								
2	GNAI1	VF								
2	GPX2	VF								
2	H2AFX	VF								
2	HMGAI1	VF		X						
2	IRF8	VF		X						
2	IL7R	VF								
2	INSM1	VF								
2	ACO1	VF								
2	KCNA3	VF								
2	KCNN4	VF								
2	KIF1	VF								
2	KRT13	VF								
2	KRT33B	VF								
2	LCP1	VF								
2	LCT	VF								
2	LTB	VF								
2	LY75	VF	X							
2	MAD2L1	VF								
2	MAL	VF								
2	MATN2	VF								
2	MDM4	VF								
2	ME1	VF								
2	MEST	VF								
2	SCGB2A1	VF								
2	MYBL2	VF		X						
2	MYH8	VF								
2	NEK2	VF								
2	NPTX1	VF								
2	P2RX5	VF								
2	PCNA	VF								
2	PDE7A	VF								
2	PI3	VF								
2	PK3CG	VF								
2	PMCH	VF								
2	PRKCB	VF								
2	PRKCG	VF								
2	PTK7	VF								
2	PTPN2	VF								
2	PTPN6	VF								
2	PTPRG	VF								
2	RAC2	VF	X		X					
2	RBMS2	VF								
2	RFC4	VF								
2	CCL22	VF								
2	SDC2	VF								
2	SH3GL3	VF								
2	SLAMF1	VF								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
2	SOX4	VF	X	X		CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
2	SPIB	VF		X	X					
2	SPRR1B	VF								
2	SQLI	VF								
2	TIAM1	VF								
2	TXK	VF								
2	VRK1	VF								
2	CORO2A	VF								
2	SLC7A5	VF								

2 AKAP1	VF						
2 HIST1H2BG		VF					
2 HIST1H3CVF							
2 HIST1H3I	VF						
2 AURKA	VF						
2 CDC42BPA		VF					
2 DGKE	VF						
2 CBX4	VF	X					
2 EXO1	VF						
2 STX11	VF						
2 HRK	VF	X					
2 MTMR1	VF						
2 CDK5R1	VF						
2 TIMELESS	VF						
2 STBD1	VF						
2 PRC1	VF					X	
2 GJB2	VF						
2 BNIP3	VF						
2 E2F2	VF	X					
2 PTK2B	VF						
2 FEN1	VF	X		X			
2 FLT3	VF						
2 AURKB	VF						
2 PTTG1	VF	X		X			
2 STK17B	VF						
2 CYTIP	VF						
2 TRAF4	VF						
2 RHOH	VF						
2 BUB1	VF						
2 CDC25B	VF						
2 CCR6	VF						
2 DUSP2	VF						
2 EPHB6	VF						
2 EPS8	VF						
2 EZH2	VF	X		X			
2 KIF11	VF						
2 MCM2	VF						
2 NFATC3	VF	X					
2 SDPR	VF						

2 RGN	VF		
2 CCNB2	VF		
2 ARHGEF1	VF		
2 LPAR2	VF		
2 NDST3	VF		
2 GRAP2	VF		
2 AIM2	VF		
2 IL27RA	VF		
2 KIF23	VF		
2 IGDCC3	VF		
2 AQP3	VF		
2 DEFB4A	VF		
2 DOCK2	VF		
2 HDAC1	VF	X	X
2 HMG1N1	VF	X	
2 JARID2	VF	X	X
2 PLK1	VF		
2 ATP2A3	VF		
2 CBFA2T3	VF	VF	X
2 CD80	VF	X	
2 HIST1H1D	VF	VF	
2 HMGB3	VF		
2 LMO7	VF		
2 VAV1	VF	X	
2 ITK	VF		
2 KRT6B	VF		
2 KRT16	VF		
2 LCP2	VF		
2 ALDH6A1	VF		
2 NHLH1	VF	X	X
2 PTPRCAP	VF		
2 ABCC9	VF		
2 KIF20A	VF		
2 ARL4C	VF		
2 DDX39	VF		
2 CD96	VF		
2 HRSP12	VF		
2 SLC23A1	VF		
2 PRSS16	VF		
2 FMNL1	VF		

2 MCM4 VF
2 MCM6 VF
2 MCM7 VF

All_modules

2	IKZF1	VF		X	X				
2	KRT1	VF							
2	CD7	VF							
2	CD28	VF							
2	GPR19	VF							
2	LRMP	VF							
2	NEFL	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	PCP4	VF							
2	POU4F1	VF		X					
2	PRB3	VF							
2	PRKCO	VF							
2	TNFAIP3	VF							
2	TACC3	VF							
2	ZNF238	VF		X					
2	CAP2	VF							
2	UBD	VF							
2	SPAG5	VF							
2	MCAM	VF							
2	CCR9	VF							
2	WASF3	VF							
2	NMU	VF							
2	CD6	VF							
2	MLL11	VF							
2	PKIA	VF							
2	KIF2C	VF							
2	SOX5	VF		X					
2	TL4	VF							
2	UBE2C	VF							
2	PTPRT	VF							
2	CIT	VF							
2	GALNT6	VF							
2	OIP5	VF							
2	ICOS	VF							
2	ANGPTL2	VF							
2	STAP1	VF							
2	TPX2	VF							
2	EHF	VF		X					
2	EPB41L1	VF							
2	MID2	VF							
2	RHOQ	VF							
2	LILRA4	VF							
2	ESPL1	VF							
2	HMHA1	VF							
2	PXDN	VF							
2	KIF4A	VF							
2	MMD	VF							
2	SERPINB13	VF							
2	STAG3	VF							
2	STEAP1	VF							
2	PSD4	VF							
2	IKZF3	VF		X					
2	PCOLCE2	VF							
2	TRHDE	VF							
2	CD274	VF							
2	UBE2T	VF							
2	CD5	VF							
2	ADAM28	VF							
2	PDSS1	VF							
2	ORC6	VF							
2	DAPK2	VF							
2	SLC7A11	VF							
2	SMPX	VF							
2	LAMP3	VF							
2	LYPD3	VF							
2	SIT1	VF							
2	P2RY10	VF							
2	EDEM1	VF							
2	ACAP1	VF							
2	TOX	VF							
2	SERTAD2	VF		X					
2	ARHGAP11A	VF							
2	JAKMIP2	VF							
2	MELK	VF							
2	RHOBTB1	VF							
2	ZBED4	VF							
2	NCAPD2	VF							
2	KIF14	VF							
2	RNF44	VF							
2	DIP2C	VF		X	X				
2	FNBP1	VF							

2	TLN2	VF							
2	SEPT6	VF							
2	PASK	VF							
2	DNAIC9	VF							
2	SIK2	VF							
2	KIAA0802	VF	X						
2	ADCY6	VF							
2	TENC1	VF							
2	NCAPH	VF							
2	CZCD2	VF							
2	FAM169A	VF							
2	GMNN	VF							
2	GINS2	VF							
2	AMOTL2	VF							
2	BIN2	VF							
2	PCYOX1	VF							
2	UPB1	VF							
2	EVL	VF							
2	CENPF	VF	X	X	X				
2	TRAT1	VF							
2	GTSE1	VF							
2	DTL	VF							
2	IL23A	VF							
2	GALNT7	VF							
2	KIF21B	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	ERCC6L	VF							
2	TASP1	VF							
2	PALMD	VF							
2	LIME1	VF							
2	ACSM5	VF							
2	MOSCC2	VF							
2	C12orf48	VF							
2	FEZF2	VF							
2	OSBP1A	VF							
2	HELLS	VF							
2	NETO2	VF							
2	CDCA8	VF							
2	RFWD3	VF							
2	ASPM	VF							
2	ASF1B	VF							
2	C1orf112	VF							
2	DPPA4	VF							
2	NEIL3	VF							
2	C7orf43	VF							
2	PRR11	VF							
2	TBC1D19	VF							
2	ACER3	VF							
2	HJURP	VF							
2	EPB41L4B	VF							
2	RNF130	VF							
2	PAG1	VF							
2	ARHGAP15	VF							
2	PBK	VF							
2	MCM10	VF							
2	SLC16A10	VF							
2	MARK1	VF							
2	SMPD3	VF							
2	ANLN	VF							
2	SH3TC1	VF							
2	SASH3	VF							
2	SEPT3	VF							
2	CRTAM	VF							
2	IGLL1	VF							
2	PMEP1A	VF							
2	OTUD7B	VF							
2	KIF15	VF							
2	AKR1B10	VF							
2	LZTF1	VF							
2	NAT14	VF		X	X				
2	ATP6V0A4	VF							
2	SPC25	VF							
2	NLGN4X	VF							
2	MTA3	VF		X					
2	PDP2	VF							
2	PITPNM2	VF							
2	LRRN1	VF							
2	WDF4	VF							
2	HIST1H2AE	VF							
2	HIST1H2BD	VF							
2	HIST1H2AJ	VF							

2	SPINK2	VF							
2	C6orf115	VF							
2	ENPP5	VF							
2	IL21R	VF							
2	MS4A1	VF							
2	FOXM1	VF		X		X			
2	SLC22A3	VF							
2	DEF6	VF							
2	GPM3	VF							
2	CENPK	VF							
2	EDAR	VF							
2	NCAPG	VF							
2	DNMT3A	VF							
2	TNS1	VF							
2	ELOVL4	VF							
2	FAM59A	VF	X						
2	CCDC21	VF							
2	BCL11B	VF							
2	RASAL3	VF							
2	CENPH	VF							
2	MARCKSL1	VF							
2	HOXB4	VF			X				
2	C1orf135	VF							
2	PVRIG	VF							
2	DSCC1	VF							
2	FA2H	VF							
2	PLA2G4A	VF							
2	ADIPOR2	VF							
2	ACSS3	VF							
2	NEIL1	VF							
2	MLF1IP	VF	X						
2	GAL3ST4	VF							
2	C11orf80	VF			X		X		
2	E2F8	VF							
2	CLMN	VF							
2	SHCBP1	VF							
2	SNX22	VF							
2	MAP6D1	VF							
2	DENND1C	VF							
2	NUP210	VF							
2	ESRP2	VF							
2	HSPA12A	VF							
2	PIF1	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	C17orf68	VF							
2	C13orf18	VF							
2	HKDC1	VF							
2	ATP10B	VF							
2	NINL	VF							
2	TRAF3IP3	VF			X				
2	SLC19A3	VF						X	
2	PBX4	VF							
2	LIMD2	VF							
2	BCL2L14	VF							
2	AKNA	VF	X						
2	STK33	VF							
2	FAM83D	VF							
2	CDT1	VF							
2	KIF18A	VF							
2	CDCA3	VF							
2	NUF2	VF							
2	FERMT3	VF							
2	CDCA7	VF							
2	GSG2	VF							
2	CCNB1	VF							
2	MND1	VF							
2	SLA2	VF							
2	PSD2	VF							
2	GINS4	VF							
2	CSorf4	VF							
2	CARD11	VF							
2	KBTBD8	VF							
2	GPR174	VF							
2	SPINK7	VF							
2	RNASE7	VF							
2	SLC9A7	VF							
2	INA	VF							
2	BEST3	VF							
2	UBASH3B	VF							
2	ARHGAP19	VF						X	
2	RAB11FIP4	VF							

2	SLC46A2	VF							
2	NKD2	VF							
2	ZNF101	VF							
2	SEPT1	VF							
2	STARD13	VF							
2	RCSO1	VF							
2	STK11IP	VF							
2	CLNK	VF							
2	CCNE2	VF							
2	CDCA5	VF							
2	NEURL2	VF							
2	RSPH1	VF							
2	CLEC4C	VF							
2	KLHL6	VF							
2	CSorf20	VF							
2	KCNQ3	VF							
2	PAQR8	VF							
2	RAVER1	VF							
2	BMPER	VF							
2	PTCRA	VF							
2	GLCC1	VF							
2	C7orf29	VF							
2	STARD4	VF							
2	LGH4	VF							
2	CASC5	VF							
2	ANKRD22	VF							
2	KCNH8	VF		X					
2	A2ML1	VF						X	
2	CCDC138	VF							
2	C1orf96	VF							
2	RTKN2	VF							
2	C15orf42	VF							
2	C16orf75	VF							
2	ERP27	VF							
2	PPIL5	VF							
2	SEPP2	VF							
2	TMEM155	VF							
2	C14orf145	VF							
2	TMC8	VF							
2	ENTHD1	VF							
2	CKAP2L	VF							
2	CDCA2	VF							
2	RASEF	VF							
2	FAM24B	VF							
2	SLC25A16	VF							
2	C10orf27	VF							
2	GPC2	VF							
2	TXLNB	VF							
2	MCOLN2	VF	X						
2	ZCCHC24	VF							
2	ZNF367	VF		X					
2	FAM26E	VF							
2	RAB39B	VF							
2	TRIM59	VF							
2	SLC35F3	VF							X
2	FAM117B	VF							
2	UNC5CL	VF							
2	PGM2L1	VF							
2	ATG9B	VF							
2	TIGIT	VF							
2	DLRAD3	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
2	KLB	VF							
2	RASSF6	VF							
2	PLA2G4D	VF							
2	SESTD1	VF							
2	P2RX8	VF							
2	CSorf140	VF							
2	CMTM4	VF							
2	NLRC3	VF							
2	ITGA1	VF							
2	BMP8A	VF							
2	RASSF5	VF	X		X				
2	CYP2U1	VF							
2	IDO2	VF							
2	KIF24	VF							
2	SCML4	VF							
2	TBC1D10C	VF							
2	SP6	VF							
2	POLQ	VF							
2	E2F7	VF		X	X				

2	C9orf150	VF							
2	C10orf129	VF							
2	C11orf96	VF							
2	KRTPAP	VF							
2	XKRX	VF							
2	MIR155HG	VF							
2	AOX2P	VF							
2	LOC606724	VF							
2	DLEU2L	VF							
2	NAPSB	VF							
2	LRR37A4	VF							
2	LOC340508	VF							
2	DPY19L2P2	VF							
2	LOC440896	VF							
2	FLJ22536	VF							
2	CETN4P	VF							
2	GOLGA2B	VF							
2	LOC220930	VF							
2	LOC100188949	VF							
2	AQP7P3	VF							
2	NCRNA00287	VF							
2	C8orf51	VF							
2	LOC731789	VF							
2	C21orf96	VF							
2	NEURL3	VF							
2	LOC282997	VF							
2	LOC284749	VF							
2	LOC339524	VF							
2	C6orf147	VF							
2	LOC284551	VF							
2	C12orf32	VF							
2	LOC641518	VF							
2	MIRS67	VF							
2	LOC645638	VF							
2	LOC728724	VF							
2	LOC389906	VF							
2	LOC79015	VF	X						
2	LOC149086	VF							
2	LOC729177	VF							
2	LOC439949	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	ACADS	VF							
3	ALAD	VF							
3	ASPA	VF							
3	ATM	VF		X	X		X		X
3	BRCA2	VF							
3	BTD	VF							
3	CDKN1C	VF		X	X				
3	COL4A3	VF							
3	EDNRB	VF							
3	EPB42	VF							
3	GCH1	VF							X
3	LEP	VF							
3	SGCG	VF							
3	MSH2	VF							
3	PCCA	VF							
3	PLOD1	VF							
3	PMP22	VF							
3	PTH1R	VF							
3	QDPR	VF							
3	ROM1	VF							
3	ATXN7	VF							
3	COL5A2	VF							
3	AK1	VF							
3	FBP1	VF							
3	GPK1	VF							
3	AORF1	VF							
3	AGTR1	VF							
3	BLVRB	VF							
3	CRAT	VF							
3	IMPDH1	VF							
3	ITGA4	VF							
3	NQO1	VF							
3	NQO2	VF							
3	NPR1	VF							
3	PDE3B	VF							
3	PDE1B	VF							
3	PLA2G5	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	PRRG1	VF							

3 ZDHHCL3	VF					
3 ITIH5	VF					
3 SMC4	VF					
3 ANXA2	VF					
3 TMEM200B	VF		VF			
3 MGLL	VF					
3 SMARCD3	VF		VF		X	
3 PARVB	VF	X		X		
3 EVI2A	VF					
3 FBLN2	VF					
3 ZYG11A	VF					
3 FGFRL1	VF					
3 CLEC2D	VF					
3 OR10T2	VF					
3 CHD3	VF					
3 B4GALT2	VF					
3 SEMA3B	VF					
3 FAM149A	VF	VF	X			
3 C1orf103	VF					
3 NTRK2	VF					
3 WDHD1	VF					
3 GPX8	VF					
3 MXRA7	VF	X				
3 RBPMS	VF					
3 ERMN	VF					
3 ZC3H12B	VF					
3 ARHGEF10L	VF	VF				
3 AGPAT2	VF					
3 MPST	VF					
3 AGPHD1	VF					
3 ZNF107	VF					
3 DDR2	VF					
3 ME3	VF					
3 SAMD3	VF					
3 USP1	VF					
3 PRR5	VF					
3 C2orf76	VF					
3 SORBS3	VF		X			
3 PCK2	VF					

3 PIR	VF	X
3 FANCB	VF	
3 S100A13	VF	
3 RAB3IP	VF	
3 MECR	VF	
3 TSPAN4	VF	
3 TPD52	VF	
3 CRELD1	VF	
3 C19orf12	VF	
3 FDX1L	VF	
3 TMEM150A	VF	VF
3 MMP28	VF	
3 SLC35A2	VF	
3 PJA1	VF	
3 SPECC1	VF	
3 DCLRE1C	VF	
3 TRAF5	VF	
3 AGAP1	VF	
3 CDC42SE2	VF	VF
3 C20orf27	VF	
3 EFEMP1	VF	
3 ZBTB7C	VF	
3 CD151	VF	
3 ANGPTL4	VF	
3 GPX4	VF	
3 GPER	VF	
3 MAPK3	VF	
3 PALM	VF	
3 SERPINB7	VF	
3 FAM63A	VF	
3 SPINK9	VF	
3 SLC29A4	VF	
3 SLC2A4	VF	
3 C6orf204	VF	
3 NUPR1	VF	
3 C2orf88	VF	
3 SMC2	VF	
3 FIGNL1	VF	
3 NTM	VF	
3 TKT	VF	

3 TUBB2AVF
3 MOCS1 VF
3 PKD1L2 VF

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3	GPBAR1	VF							
3	FAM127C	VF							
3	VAV3	VF							
3	PLIN4	VF							
3	WTIP	VF							
3	DNA2	VF							
3	CCDC150	VF							
3	SCN3A	VF							
3	ACACB	VF							
3	ANG	VF							
3	TMEM22	VF							
3	PEL3	VF							
3	KIF2A	VF							
3	FAM129C	VF							
3	CKAP2	VF	X						
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	AKT1S1	VF							
3	C7orf68	VF							
3	CEP78	VF							
3	TMEM100	VF							
3	HOOK2	VF							
3	CABLES1	VF							
3	C4orf19	VF							
3	KIF13A	VF							
3	NUDT7	VF							
3	SYNPO	VF							
3	ADAM10	VF							
3	CNRIP1	VF							
3	PARP15	VF							
3	ZNF276	VF							
3	ARL17A	VF							
3	EPB49	VF							
3	ANKRD53	VF							
3	PLIN2	VF							
3	RPTN	VF							
3	MAPT	VF							
3	ADM	VF							
3	PABPC1L	VF							
3	CRY2	VF							
3	CRLS1	VF					X		
3	NR1H3	VF		X					
3	CDC7	VF						X	
3	ELMOD3	VF							
3	JDP2	VF		X					
3	MSRA	VF							
3	ANP32E	VF							
3	BCAP31	VF							
3	GPT2	VF							
3	C16orf45	VF							
3	FAM111A	VF							
3	FBXO5	VF							
3	LGALS12	VF							
3	ITPK1	VF							
3	FBXO15	VF							
3	WEE1	VF							
3	PHLD1	VF							
3	PLEKHG6	VF							
3	SCAI	VF		X	X				
3	WDR67	VF							
3	SLC1A5	VF							
3	ELF1	VF		X					
3	PFKFB3	VF							
3	WFS1	VF							
3	PTGR1	VF							
3	AFAP1L1	VF							
3	KDM4C	VF	X						
3	SLC22A4	VF							
3	AOC2	VF							
3	BR13	VF							
3	SGOL2	VF							
3	SAMD4A	VF							
3	ODZ1	VF							
3	MTF2	VF							
3	BIRC3	VF							
3	EMX2	VF		X					
3	TMOD1	VF							
3	CGREF1	VF							
3	SPATA13	VF							
3	FAM59B	VF							
3	VSIG1	VF							
3	LOC100287428	VF							

3	STRBP	VF							
3	C5orf35	VF	X		X				
3	TK2	VF							
3	MAMLD1	VF							
3	VIT	VF							
3	SYNJ2	VF	X						
3	CXorf57	VF							
3	NOL3	VF							
3	CORO2B	VF							
3	CYB5A	VF							
3	GRHL3	VF							
3	NASP	VF							
3	DCXR	VF							
3	IRF4	VF		X					
3	GPR120	VF							
3	BTN2A2	VF							
3	DOK1	VF							
3	POLE2	VF							
3	SLC43A1	VF							
3	BMP1	VF							
3	ADCY5	VF					X		
3	ARL2	VF							
3	ILDR1	VF							
3	BMP2	VF		X					
3	SERPINH1	VF							
3	CBR3	VF							
3	CHD1	VF							
3	CIDEA	VF							
3	ECH1	VF							
3	FYB	VF							
3	HSPB2	VF							
3	CALB2	VF							
3	CD69	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	CKB	VF							
3	CNTRF	VF							
3	COL4A2	VF				X			
3	COX7A1	VF							
3	CPA1	VF							
3	CSN2	VF							
3	CFD	VF							
3	DSG1	VF							
3	ENO2	VF							
3	ACSL1	VF							
3	FLG	VF							
3	FMOD	VF							
3	GPX3	VF		X					
3	GYPC	VF							
3	HOXB5	VF		X					
3	INHBB	VF							
3	ITGB5	VF							
3	LAMB2	VF							
3	LRP1	VF						X	
3	LRP5	VF							
3	LTBR	VF							
3	MAN2A1	VF							
3	MMP15	VF							
3	NID1	VF							
3	PKD2	VF							
3	PMM1	VF							
3	POLR2E	VF							
3	PRELP	VF							
3	HTRA1	VF							
3	PTPRC	VF							
3	REL	VF		X					
3	SNCG	VF			X				
3	SNTA1	VF	X						
3	SOD3	VF							
3	SP4	VF		X	X				
3	SPR	VF							
3	TCF12	VF		X					
3	THRSP	VF							
3	TIMP4	VF							
3	TM7SF2	VF							
3	TST	VF							
3	VEGFB	VF							
3	FZD5	VF							
3	TCAD2	VF		X					
3	DDO	VF							
3	CAMK1	VF							
3	CDC14A	VF							

3	PPAP2A	VF							
3	CTS5	VF							
3	TNFSF12	VF							
3	RGS11	VF							
3	AP1G2	VF							
3	MAP3K14	VF							
3	ARRB1	VF							
3	DUSP3	VF							
3	ECHS1	VF							
3	EIF4EBP1	VF							
3	SERPINB9	VF							
3	TRIP10	VF							
3	BAG3	VF							
3	NFE2L3	VF		X					
3	BPHL	VF							
3	DTX1	VF		X					
3	EFNB1	VF							
3	GALNT3	VF							
3	LIN7A	VF							
3	DGKI	VF							
3	DHRS3	VF							
3	NUMBL	VF							
3	BZRAP1	VF							
3	STR17A	VF							
3	RASA12	VF							
3	AKAP5	VF							
3	CDKN2B	VF				X			X
3	DAPK1	VF							
3	ENPP3	VF							
3	FXYP1	VF							
3	CEBPB	VF		X					
3	GPT	VF							
3	LIPE	VF							
3	MPL	VF							
3	KCNE3	VF	X						
3	IVL	VF							
3	LMNA	VF							
3	MDF1	VF							
3	UBXN8	VF							
3	ABCB6	VF							
3	GLYAT	VF							
3	FSTL3	VF							
3	MTLX	VF							
3	SLC25A1	VF							
3	ARID1A	VF		X					
3	TNIP1	VF							
3	MYL9	VF							
3	NDC80	VF							
3	ACAA2	VF							
3	NNMT	VF							
3	NPY5R	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	NUCB1	VF							
3	PRKCD	VF							
3	PRKCH	VF							
3	RAS	VF							
3	S100B	VF							
3	ST3GAL4	VF						X	
3	GAS2L1	VF							
3	LGALS2	VF	X						
3	IGF2BP3	VF							
3	KIF1C	VF							
3	NES	VF							
3	MMP24	VF							
3	DBF4	VF							
3	SYNGAP1	VF							
3	CDC42EP2	VF							
3	KDEL3	VF							
3	RAB31	VF	X						
3	DNMT3B	VF		X					
3	ALX1	VF		X					
3	C10orf10	VF							
3	TOPBP1	VF							
3	KLF12	VF		X					
3	PAXIP1	VF	X						
3	DGAT1	VF							
3	PTRF	VF		X	X				
3	MAPRE3	VF							
3	TSPAN15	VF							
3	PHLDA3	VF							
3	GPR171	VF							

3	DMGDH	VF							
3	STGGALNAC6	VF							
3	DDAH2	VF	X		X				
3	FLVCR1	VF							
3	MACROD1	VF							
3	KLF15	VF	X						
3	ATAD2	VF	X		X				
3	IMPA2	VF							
3	RAGE	VF							
3	ADAMTS2	VF							
3	DAPP1	VF							
3	HSPB7	VF							
3	SRPX2	VF							
3	RHOD	VF							
3	SLC2A8	VF							
3	KCNIP2	VF							
3	DOCK10	VF							
3	KNTC1	VF							
3	SV2A	VF							
3	ABLIM3	VF							
3	PDZRN3	VF							
3	ARAP2	VF							
3	DHRS7B	VF							
3	TSKU	VF							
3	OS9PL3	VF							
3	DENND2A	VF							
3	GOS2	VF							
3	COL5A3	VF							
3	YBX2	VF							
3	CRLF3	VF							
3	ABHD5	VF							
3	GLRX2	VF							
3	RASD1	VF				X			
3	AIG1	VF							
3	FGCP	VF							
3	CY5R2	VF							
3	RAB6B	VF							
3	EFEMP2	VF							
3	OPLAH	VF							
3	MFSO6	VF							
3	NCAPG2	VF							
3	CCDC99	VF							
3	RGS3	VF							
3	C1orf56	VF							
3	CCDC109B	VF							
3	TTC38	VF							
3	CUEDC1	VF							
3	ZWILCH	VF							
3	YEATS2	VF							
3	RADIL	VF							
3	MAP7D1	VF							
3	ARHGEF40	VF							
3	ANO10	VF							
3	ECT2	VF							
3	CEP72	VF							
3	N4BP2	VF							
3	TMEM140	VF					X		
3	LAR96	VF							
3	AGPAT5	VF							
3	NIPSNAP3B	VF						X	
3	C4orf21	VF							
3	C17orf79	VF							
3	DOK5	VF							
3	MESP1	VF	X		X				
3	HOXB6	VF	X						
3	TBC1D16	VF							
3	ADAMTSL4	VF							
3	ABCA7	VF							
3	SEMA3G	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	WDR93	VF							
3	FAM20C	VF							
3	JPH1	VF							
3	DECR2	VF							
3	SLC24A3	VF							
3	ARHGAP20	VF							
3	KIAA1524	VF							
3	NMB	VF							
3	POLR2L	VF							
3	TP53NP2	VF							
3	FADS3	VF						v	

3 AVPI1	VF							
3 ZNF711	VF		X	X				
3 CUZD1	VF							
3 TIA1	VF							
3 MTBP	VF							
3 ABHD4	VF							
3 TNN	VF							
3 CLSTN2	VF							
3 TNS3	VF					X		
3 MPHOSPH9	VF							
3 LYNX1	VF							
3 VKORC1	VF							
3 DHRS11	VF							
3 IRX6	VF	X	X					
3 CEP97	VF							
3 OCEL1	VF							
3 TMEM53	VF							
3 PLEKHF2	VF							
3 ANKRD55	VF							
3 C11orf67	VF							
3 ECHDC3	VF							
3 C1orf115	VF							
3 ASAM	VF							
3 AGLB2	VF							
3 C13orf34	VF							
3 ATAD5	VF							
3 DHDDS	VF							
3 FBXO17	VF							
3 RMI1	VF							
3 UBTD1	VF							
3 ATF7IP2	VF							
3 ACSF2	VF							
3 PIGZ	VF							
3 APOL6	VF							
3 FCRL2	VF							
3 GDPD5	VF							
3 WBSCR16	VF							
3 ADAMTS12	VF							
3 C1QTNF1	VF							

3 RBM11 VF
3 ALG14 VF
3 C11orf82 VF

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3	PRKCD8P	VF							
3	OSCP1	VF							
3	ZBTB47	VF							
3	TIGD1	VF							
3	FAM110B	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
3	CDC42EP1	VF							
3	ZNF439	VF							
3	ELOVL3	VF							
3	ANKRD9	VF							
3	ACOT4	VF							
3	CLDN2	VF		X					
3	TBX15	VF							
3	DCP2	VF							
3	APCDD1	VF							
3	BRWD3	VF							
3	SNX33	VF			X				
3	SVEP1	VF	X						
3	LDHD	VF							
3	STRC	VF							
3	SIAE	VF							
3	C14orf50	VF							
3	MOBK11A	VF							
3	DCUN1D3	VF							
3	VKORC1L1	VF							
3	KLHDC8B	VF							
3	EFCAB4A	VF							
3	C20orf197	VF							
3	NDUFAF2	VF							
3	MT1E	VF							
3	CHSY3	VF							
3	SIX5	VF	X	X					
3	C16orf54	VF							
3	MT1M	VF							
3	H2AFJ	VF							
3	ZNF831	VF							
3	RTN4RL1	VF							
3	MRAP	VF							
3	FBXO27	VF							
3	GLDN	VF							
3	DDX26B	VF							
3	TMEM37	VF							
3	C6orf145	VF							
3	ABHD15	VF							
3	SHISA4	VF							
3	MIMS22L	VF							
3	FAM89A	VF							
3	LRRN4CL	VF							
3	C19orf70	VF							
3	GPR153	VF							
3	C14orf181	VF							
3	MT1L	VF							
3	H19	VF							
3	DLEU2	VF							
3	AQP7P1	VF							
3	LOC387647	VF							
3	LOC644145	VF							
3	GVINP1	VF							
3	KIAA0087	VF							
3	KIAA0664L3	VF							
3	LOC100170939	VF							
3	LOC113230	VF							
3	LOC283663	VF							
3	LOC100129637	VF							
3	LOC151534	VF							
3	LOC400043	VF							
3	LOC145474	VF							
3	C21orf82	VF							
3	LOC283070	VF							
3	NCRNA00173	VF							
3	LOC100272216	VF							
3	C21orf34	VF							
3	LOC100302640	VF							
3	C17orf91	VF							
3	DKFZP4340714	VF							
3	LOC283335	VF							
3	LOC729970	VF							
3	LOC285972	VF							
3	LOC283481	VF							
3	LOC400236	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			

					CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
12	GCK	AAW				X		
12	NME1	AAW	X	X				
12	ICAM2	AAW						
12	GNE	AAW						
12	TLCD2	AAW						
12	BIRC3	AAW						
12	RBM6	AAW						
12	SNCG	AAW						
12	TRIM66	AAW	X					
12	PDXP	AAW						
12	C6orf57	AAW						
12	ZNF563	AAW						
12	ZNF785	AAW						
12	VKORC1L1	AAW						
12	NLRP9	AAW						
12	LRR37A3	AAW						
12	LOC442454	AAW						
12	MCM3AP-AS1	AAW						
12	LOC100130776	AAW						
12	LOC728640	AAW						
12	LOC100131564	AAW						
12	CCDC144B	AAW						
12	CAPN3	IMA						
12	HSO19B3	IMA						
12	LCAT	IMA					X	
12	PHKA2	IMA						
12	AMT	IMA						
12	GNRH1	IMA	X	X				
12	KLKB1	IMA						
12	GRK4	IMA	X					
12	SPDYE3	IMA						
12	LAT	IMA						
12	SUGP2	IMA						
12	MUC1	IMA						
12	LRR366	IMA						
12	PLAC8L1	IMA						
12	MRI1	IMA						
12	C1orf175	IMA						
12	GK5	IMA	X	X				
12	CCNL2	IMA						
12	C6orf26	IMA		X				
12	C4orf29	IMA						
12	MAPK8IP3	IMA	X	X				
12	SLC26A6	IMA						
12	C14orf138	IMA						
12	KIAA0895L	IMA						
12	GSDMB	IMA						
12	ENGASE	IMA						
12	TTC14	IMA	X	X				
12	DFNB59	IMA						
12	PHACTR4	IMA						
12	NXF1	IMA						
12	ZNF154	IMA	X					
12	MUC20	IMA						
12	TTC21A	IMA						
12	ZNF276	IMA						
12	LIM1A1	IMA						
12	ARL17A	IMA						
12	PABPC1L	IMA						
12	ENOSF1	IMA						
12	ACCS	IMA						
12	PAN2	IMA						
12	RHD	IMA						
12	CEACAM19	IMA						
12	PLXNB1	IMA						
12	FAM188B	IMA						
12	AGER	IMA						
12	ZNF692	IMA						
12	SVT2	IMA						
12	DMTF1	IMA	X	X				
12	PPP1R13L	IMA	X					
12	SEC61A2	IMA						
12	SLC23A3	IMA						
12	AKR7L	IMA						
12	KIAA1683	IMA						
12	PLXNB3	IMA						
12	ITIH4	IMA	X					
12	RBM6	IMA						
12	MASTL	IMA						
12	ARHGAP33	IMA						
12	CELF6	IMA						

12	SPEG	IMA								
12	SGK494	IMA								
12	CES4A	IMA								
12	ALS2CL	IMA								
12	FAM193B	IMA								
12	MAP3K12	IMA								
12	C17orf57	IMA								
12	ECHDC2	IMA								
12	GABBR1	IMA								
12	CS	IMA								
12	COL16A1	IMA								
12	MPP3	IMA								
12	GNB3	IMA								
12	MYH3	IMA								
12	OVGP1	IMA								
12	SNRNP70	IMA								
12	MLL2	IMA								
12	NPFF	IMA								
12	AP1G2	IMA								
12	SLC25A27	IMA	X							
12	PIGL	IMA								
12	CDC25B	IMA								
12	DMWD	IMA								
12	GABRE	IMA								
12	TXN19	IMA		X						
12	LAMA5	IMA								
12	MAK	IMA								
12	HDAC6	IMA		X	X					
12	APBB3	IMA								
12	AVIL	IMA								
12	ZNF266	IMA	X							
12	NPIP	IMA								
12	CD160	IMA								
12	ANKRD11	IMA								
12	NR2E3	IMA		X						
12	TRIM66	IMA		X						
12	TRANK1	IMA								
12	IGSF9B	IMA								
12	KIAA0754	IMA								
12	SETD1B	IMA								
12	ZNF10	IMA								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
12	L3MBTL1	IMA								
12	SEC31B	IMA		X	X					
12	STK36	IMA	X							
12	INTU	IMA								
12	CSAD	IMA								
12	AADAT	IMA								
12	SRRM2	IMA								
12	PLXNA3	IMA								
12	HAUS7	IMA								
12	DONSON	IMA								
12	YEATS2	IMA								
12	CENPJ	IMA								
12	C10orf63	IMA								
12	STAR9D	IMA								
12	MST1	IMA								
12	KAT2A	IMA		X	X					
12	FOXM1	IMA		X						
12	HIF3A	IMA		X						
12	GIGYF1	IMA								
12	FAM113A	IMA								
12	GDPD3	IMA								
12	C16orf53	IMA								
12	NEIL1	IMA								
12	NANOG	IMA		X	X					
12	ATHL1	IMA								
12	NINL	IMA								
12	EGFL8	IMA								
12	ACAD11	IMA								
12	PLCD4	IMA						X		
12	TRIM52	IMA								
12	ZNF514	IMA								
12	GNG8	IMA								
12	ATG16L2	IMA								
12	MBD6	IMA								
12	LENG8	IMA								
12	ACRC	IMA								
12	CATSPER2	IMA								
12	SLC26A10	IMA								
12	RAD52	IMA								

12	CCDC45	IMA							
12	ADHFE1	IMA							
12	UBQLNL	IMA							
12	TTC18	IMA							
12	PRRT2	IMA							
12	ZNF563	IMA							
12	WDR90	IMA							
12	KIFC2	IMA							
12	AHSA2	IMA							
12	C19orf18	IMA							
12	D2HGDH	IMA							
12	PLEKHH2	IMA							
12	LYG1	IMA							
12	SPDY1	IMA							
12	CRIPAK	IMA							
12	NLRP9	IMA							
12	PILRB	IMA							
12	NRBP2	IMA							
12	GOLGA8A	IMA							
12	DDX26B	IMA							
12	PDDC1	IMA							
12	CCDC84	IMA							
12	LRRK37A3	IMA							
12	RNF207	IMA							
12	SMHG10	IMA							
12	SNORA66	IMA							
12	SNORA72	IMA							
12	SLC7A5P2	IMA							
12	SNORD87	IMA							
12	KCNQ1OT1	IMA							
12	SNORD56	IMA							
12	LOC338799	IMA							
12	LOC285359	IMA							
12	SNORA77	IMA	X						
12	SNORD11	IMA							
12	SNORD7	IMA							
12	AFG3L1P	IMA							
12	SDHAP2	IMA							
12	EP400NL	IMA							
12	MYO15B	IMA							
12	PDXDC2P	IMA							
12	POLR2J4	IMA							
12	UBE2Q2P1	IMA							
12	LOC254312	IMA							
12	LOC652276	IMA							
12	ZNF137P	IMA							
12	CROCCP3	IMA							
12	PRINS	IMA							
12	GOLGA2B	IMA							
12	NCRNA00241	IMA							
12	NCRNA00085	IMA							
12	LOC283174	IMA							
12	LOC728190	IMA							
12	LOC91316	IMA							
12	LOC100129637	IMA							
12	CROCCP2	IMA	X						
12	NCRNA00201	IMA							
12	HCG27	IMA							
12	FLI13197	IMA							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
12	C15orf28	IMA							
12	MTMR9LP	IMA							
12	CG030	IMA							
12	C6orf147	IMA							
12	LOC728264	IMA							
12	NCRNA00107	IMA							
12	GU5BP3	IMA							
12	LOC100272216	IMA							
12	LOC100131434	IMA							
12	LOC100272228	IMA							
12	FLI14107	IMA							
12	ZNF767	IMA							
12	ARMCX4	IMA							
12	NSUN5P1	IMA							
12	CCT6P3	IMA							
12	LOC100131564	IMA							
12	LOC100128398	IMA							
12	LOC100289230	IMA							
12	DPY19L1P1	IMA	X						
12	LOC100527964	IMA							
12	C4orf29	SM							

12	C19orf18	SM								
12	CCDC84	SM								
12	SNORD72	SM								
12	SNORD56	SM								
12	GUSBP3	SM								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
13	ENG	AAW								
13	LAMA2	AAW								
13	ADRA2B	AAW	X							
13	FMO3	AAW								
13	Cyorf15A	AAW								
13	RP54Y1	AAW			X					
13	GCOM1	AAW	X							
13	SMOC1	AAW								
13	MYH14	AAW								
13	NRXN3	AAW								
13	CCNA1	AAW								
13	DDX3Y	AAW								
13	TRPC4	AAW								
13	ZFY	AAW		X	X					
13	KDM5D	AAW								
13	NLGN4Y	AAW								
13	SCN1A	AAW								
13	CARN51	AAW								
13	LOC402778	AAW								
13	SEMA3E	AAW								
13	B4GALNT1	AAW								
13	LCN1	AAW								
13	WISP2	AAW	X							
13	TMSB4Y	AAW								
13	CARTPT	AAW								
13	USP9Y	AAW								
13	EIF1AY	AAW								
13	GDF10	AAW								
13	LG11	AAW								
13	MMP16	AAW								
13	UTY	AAW								
13	KCNE1L	AAW								
13	CAPN6	AAW								
13	CPAMD8	AAW								
13	SLC35F2	AAW	X							
13	LG12	AAW								
13	DDX43	AAW								
13	ESY13	AAW								
13	Cyorf15B	AAW								
13	SLITRK1	AAW	X							
13	GALNT13	AAW								
13	TBX15	AAW		X						
13	APCDD1	AAW								
13	SLC35F3	AAW								
13	DCAF12L1	AAW								
13	RSPO2	AAW								
13	TTY10	AAW								
13	NCRNA00185	AAW								
13	TTY15	AAW								
13	XIST	AAW								
13	C6orf123	AAW								
13	PRKY	AAW								
13	GRIA2	IMA	X							
13	Cyorf15A	IMA								
13	RP54Y1	IMA								
13	SMOC1	IMA								
13	PPP1R1C	IMA								
13	MYO3B	IMA								
13	DDX3Y	IMA								
13	ZFY	IMA		X	X					
13	KDM5D	IMA								
13	DSC3	IMA	X		X					
13	TMSB4Y	IMA								
13	USP9Y	IMA								
13	EIF1AY	IMA								
13	UTY	IMA								
13	TRHDE	IMA	X							
13	LG12	IMA								
13	HHIP	IMA								
13	Cyorf15B	IMA								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
13	GALNT13	IMA								
13	TTY10	IMA								
13	NCRNA00185	IMA								

13 RPS4Y1	Blood		
13 DSP	Blood	X	X
13 LGR6	Blood		
13 RPS4Y2	Blood		
13 DACT1	Blood		
13 SCN3A	Blood		
13 LIPN	Blood	X	
13 DDX3Y	Blood		
13 ZFY	Blood	X	X
13 KDM5D	Blood		
13 CORO2B	Blood		
13 CCBP2	Blood		
13 EREG	Blood		
13 NT5E	Blood		
13 TMSB4Y	Blood		
13 USP9Y	Blood		
13 EIF1AY	Blood		
13 UTY	Blood		
13 GAL3ST4	Blood		
13 CYorf15B	Blood		
13 PAQR9	Blood		
13 TTTY10	Blood		
13 NCRNA00185	Blood		
13 TTTY15	Blood		
13 XIST	Blood		
13 FRG1B	Blood	X	
13 LOC728190	Blood	X	
13 PRKY	Blood		
13 LOC440900	Blood	X	X
13 HK2	SM		
13 CYorf15A	SM		
13 RPS4Y1	SM		
13 ADCYAP1	SM		
13 DDX3Y	SM		
13 LRRC69	SM	X	
13 TMEM229A	SM		
13 ZFY	SM	X	X
13 GEMC1	SM		
13 KDM5D	SM		
13 SLITRK4	SM		

13 IL18	SM		
13 HOXA4	SM	X	
13 MSX1	SM	X	X

All_modules

13	TMSB4Y	SM							
13	USP9Y	SM							
13	EIF1AY	SM							
13	FGFBP1	SM							
13	UTY	SM							
13	PITRM1	SM							
13	KIAA1024	SM							
13	TMEM158	SM							
13	PPP1R1B	SM							
13	LOXL4	SM							
13	Cyorf158	SM							
13	SLFN5	SM							
13	SPESP1	SM							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
13	LAYN	SM							
13	TTY10	SM							
13	NCRNA00185	SM							
13	TTY15	SM							
13	XIST	SM							
13	LOC100128288	SM							
13	CCDC144B	SM							
13	ADORA2B	SF	X						
13	TTYH1	SF							
13	Cyorf15A	SF							
13	RPS4Y1	SF							
13	CSN1S1	SF							
13	TTC39A	SF							
13	RBM44	SF							
13	TMEM150C	SF							
13	C1orf226	SF							
13	DDX3Y	SF							
13	ZFY	SF		X	X				
13	KDM5D	SF							
13	FAT2	SF							
13	COL8A1	SF							
13	TMSB4Y	SF							
13	USP9Y	SF							
13	EIF1AY	SF							
13	B4GALT6	SF							
13	ENPP3	SF							
13	CYP46A1	SF							
13	UTY	SF							
13	LILRA4	SF							
13	FAM90A1	SF							
13	HRASL5	SF							
13	ACE2	SF							
13	Cyorf158	SF							
13	TBL1Y	SF							
13	TMEM182	SF							
13	SPESP1	SF							
13	FL37543	SF							
13	TTY10	SF							
13	NCRNA00185	SF							
13	TTY15	SF							
13	XIST	SF							
13	PRKY	SF							
13	GYG2P1	SF							
13	ADORA2B	VF	X		X				
13	Cyorf15A	VF							
13	RPS4Y1	VF							
13	DDX3Y	VF							
13	ZFY	VF		X	X				
13	KDM5D	VF							
13	NLGN4Y	VF							
13	TAC3	VF							
13	TMSB4Y	VF							
13	USP9Y	VF							
13	EIF1AY	VF							
13	FGFBP1	VF							
13	SULT1C4	VF							
13	UTY	VF							
13	Cyorf158	VF							
13	C12orf64	VF							
13	TTY10	VF							
13	NCRNA00185	VF							
13	TTY15	VF							
13	XIST	VF							
13	SNORA66	VF							
13	HERC2P4	VF							
13	PRKY	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			

						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
16	KRT17	AAW							
16	SH3BGR	AAW							
16	TRIM34	AAW							
16	IGF2BP2	AAW							X
16	PTPLAD2	AAW							
16	CENPW	AAW							
16	C5orf56	AAW							
16	MUC1	AAW							
16	C1orf53	AAW	X						
16	MYH11	AAW							
16	GSDMB	AAW							
16	GIC1	AAW							
16	MIRGPRF	AAW							
16	RAPGEF4	AAW							
16	LOC728819	AAW							
16	NTF3	AAW							
16	NCOA7	AAW							
16	POSTN	AAW							
16	SYT2	AAW							
16	CHAC1	AAW							
16	SCG5	AAW							
16	ZNF814	AAW							
16	AKR7L	AAW							
16	ANK3	AAW							
16	TLCD1	AAW							
16	PLXNB3	AAW							
16	GOLGA6C	AAW							
16	BEX2	AAW							
16	WDR66	AAW							
16	GNB3	AAW							
16	MXD1	AAW		X	X				
16	NDUFB3	AAW							
16	SLC6A1	AAW	X						
16	SPAG4	AAW							
16	PPIFA2	AAW		X					
16	FOX51	AAW							
16	ISG15	AAW							
16	PDLIM7	AAW							
16	TSPAN1	AAW							
16	PROCR	AAW	X		X				
16	PHGDH	AAW							
16	GMPR	AAW							
16	SCRG1	AAW							
16	LRRTM2	AAW							
16	RNF125	AAW							
16	ZNF34	AAW	X						
16	LRP2BP	AAW							
16	TMSB15A	AAW							
16	KCNK15	AAW							
16	HIF3A	AAW	X	X	X				
16	ATOH8	AAW			X				
16	CATSPER2	AAW							
16	CITED4	AAW		X	X				
16	ESAM	AAW							
16	CHMP4C	AAW							
16	AHS42	AAW	X		X				
16	C9orf93	AAW							
16	TMSB158	AAW							
16	GALNTL4	AAW							
16	C5orf46	AAW							
16	SNORD21	AAW							
16	LOC285359	AAW							
16	SUGT1P3	AAW							
16	FL13197	AAW							
16	C15orf28	AAW							
16	LOC728264	AAW							
16	LOC100132832	AAW	X						
16	LOC100302640	AAW							
16	RP1-177G6.2	AAW							
16	LOC401321	AAW							
16	TCN2	IMA							
16	ODF2L	IMA							
16	DDX60L	IMA							
16	SAMD5	IMA							
16	CCDC112	IMA							
16	SLC7A9	IMA							
16	C7orf46	IMA							
16	WDR67	IMA							
16	ETV3	IMA	X		X				
16	LOC147670	IMA							
16	SEMA6D	IMA							

16	SGK2	IMA							
16	ECH1	IMA							
16	NDUFB3	IMA							
16	SLC6A1	IMA	X		X				
16	ZNF267	IMA							
16	SOAT2	IMA							
16	RGS11	IMA							
16	ENDOG	IMA							
16	ALDOC	IMA							
16	HIST1H1C	IMA							
16	CDK2AP2	IMA							
16	SEPX1	IMA							
16	PRPF39	IMA							
16	LRP2BP	IMA							
16	THAP9	IMA							
16	LRRC3	IMA							
16	PYROXD2	IMA	X						
16	C21orf70	IMA							
16	PEBP4	IMA							
16	SAMD9L	IMA							
16	WDR17	IMA							
16	DPY19L2	IMA	X						
16	CYP4Z1	IMA							X
16	RBM43	IMA							
16	HCG3P7	IMA							
16	TOP1P1	IMA							
16	MBL1P	IMA							
16	ZNF300P1	IMA	X						
16	C7orf54	IMA							
16	SMA5	IMA							
16	LOC401321	IMA							
16	ZNF763	Liver							
16	BIRC3	Liver							
16	OX3CL1	Liver	X						
16	FAM83D	Liver							
16	ZNF528	Liver	X						
16	ZG16B	Liver	X						
16	KCNT2	Liver							
16	LOC440925	Liver							
16	LOC400680	Blood							
16	GSDMB	SM							
16	GEN1	SM							
16	LDHAL6A	SM							
16	CES3	SM							
16	GABBR1	SM			X				
16	DACH1	SM							
16	NAIP	SM							
16	ACCN3	SM							
16	SLIT2	SM							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
16	PLL	SM							
16	C2orf34	SM							
16	NRIP2	SM		X					
16	TMED6	SM							
16	ZNF785	SM							
16	C14orf39	SM	X						
16	NLRP9	SM							
16	PILRB	SM	X						
16	SNORD87	SM							
16	MCM3AP-AS1	SM							
16	TSPO	SF							
16	FCRLB	SF							
16	C1orf190	SF							
16	C3orf71	SF							
16	ZNF844	SF							
16	C17orf72	SF							
16	IGAM3	SF							
16	KCNS3	SF							
16	FKBP1B	SF							
16	NAIP	SF							
16	DCPS	SF							
16	KAZALD1	SF							
16	GAS2L3	SF							
16	SNORD11	SF							
16	LOC653075	SF							
16	CYBA	VF							
16	RPGR	VF							
16	IGFBP2	VF							
16	ZNF429	VF							
16	TTC3	VF							
16	KLHL5	VF							

16	GKS	VF								
16	MAP9	VF								
16	CCDC12	VF								
16	CEP170	VF								
16	ZNF596	VF								
16	LRRN3	VF								
16	ZNF160	VF								
16	C3orf71	VF								
16	ZEB1	VF	X		X					
16	ZNF234	VF								
16	MTHFD2L	VF								
16	ZNF566	VF								
16	ZNF605	VF								
16	TESC	VF								
16	GOLGA4	VF								
16	MOSPD2	VF								
16	EIF4G3	VF								
16	NPTX2	VF								
16	RECQL	VF								
16	REV3L	VF								
16	ZNF85	VF	X		X					
16	SMARCA5	VF	X		X					
16	BLZF1	VF	X		X					
16	TRIP11	VF	X		X					
16	KIF5B	VF	X		X					
16	SRSF2IP	VF								
16	LPAR4	VF								
16	RADS0	VF								
16	POP7	VF								
16	TRDN	VF								
16	AVIL	VF	X							
16	DIAPH2	VF								
16	POLI	VF								
16	ANKRD11	VF								
16	SYCP2	VF								
16	ANKRD26	VF	X		X					
16	ZC3H13	VF								
16	KIAA0776	VF								
16	EIF5B	VF								
16	TAOK3	VF								
16	MBD5	VF								
16	MNS1	VF								
16	ZNF273	VF								
16	ZNF462	VF								
16	ZNF514	VF	X		X					
16	ZNF354B	VF								
16	CHURC1	VF	X	X	X					
16	TTC18	VF								
16	ZNF23	VF								
16	C19orf18	VF								
16	ZNF781	VF								
16	KLHDC1	VF								
16	C12orf61	VF								
16	ZNF283	VF								
16	ADAT2	VF								
16	LRRC37A3	VF								
16	LOC283104	VF								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:	CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
20	BTX	AAW								
20	C2	AAW								
20	IL2RG	AAW								
20	ITGB2	AAW								
20	JAK3	AAW								
20	LIPA	AAW			X	X				
20	LYZ	AAW								
20	CITTA	AAW	X							
20	WAS	AAW								
20	CYBB	AAW								
20	GM2A	AAW								
20	NCF2	AAW								
20	AMPD3	AAW								
20	CDS3	AAW								
20	FCGR3A	AAW								
20	CR1	AAW								
20	CCR5	AAW								
20	NCF4	AAW								
20	ITGAM	AAW								
20	ALOX5	AAW						X		
20	CD3D	AAW								
20	CD3E	AAW								
20	CD247	AAW								

20 ITGAX	AAW								
20 ITGB7	AAW								
20 KCNJ5	AAW								
20 PTAFR	AAW	X		X					
20 FCGR2B	AAW								
20 EVI2A	AAW								
20 SP140	AAW		X						
20 PLAUR	AAW								
20 RHBDF2	AAW								
20 CPM	AAW								
20 RPS6KA1	AAW								
20 ARHGAP25	AAW								
20 CXCR4	AAW								
20 TFEC	AAW		X						
20 ARHGAP30	AAW								
20 RUNX3	AAW		X						
20 KYNU	AAW								
20 GLUL	AAW								
20 MPEG1	AAW								
20 C1orf38	AAW								
20 MAP4K1	AAW								
20 FGR	AAW								
20 LCK	AAW								
20 SLA	AAW								
20 ARHGAP9	AAW								
20 SPI1	AAW		X		X				
20 LILRB2	AAW					X			
20 LILRB4	AAW								
20 LILRB1	AAW								
20 FGD3	AAW								
20 C17orf60	AAW								
20 AMICA1	AAW								
20 HPSE	AAW								
20 RBM47	AAW								
20 ACP5	AAW								
20 ITGAL	AAW								
20 BCL2A1	AAW	X							
20 MRO	AAW								
20 TMC6	AAW								

20 CCRL2	AAW
20 LILRA2	AAW
20 SYK	AAW
20 FCGR2A	AAW
20 PARVG	AAW
20 FAIM3	AAW
20 PIK3R5	AAW
20 LPAR5	AAW
20 DOK3	AAW
20 PLAU	AAW
20 SLCO2B1	AAW
20 SLC37A2	AAW
20 CD8A	AAW
20 SH2D2A	AAW
20 CSF2RA	AAW
20 MARCH1	AAW
20 PLA2G7	AAW
20 SIGLEC10	AAW
20 HCK	AAW
20 SLC38A6	AAW
20 SLC29A3	AAW
20 BCAT1	AAW
20 SLAMF6	AAW
20 CD84	AAW
20 NCKAP1L	AAW
20 CLDN7	AAW
20 CD22	AAW
20 CORO1A	AAW
20 FLVCR2	AAW
20 PLD5	AAW
20 SIGLEC9	AAW
20 NLRC4	AAW
20 PTPN7	AAW
20 CCR1	AAW
20 FABP5	AAW
20 IL10RA	AAW
20 CD2	AAW
20 SLC31A2	AAW
20 CTSB	AAW
20 FPR3	AAW

20 HK3 AAW
20 HLA-DOA AAW
20 HMOX1 AAW

All_modules

Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
20	IRF8	AA		X	X				
20	LAIR1	W							
20	1	AA							
20	LCP1	AAW							
20	MSR1	AAW							
20	PLEK	AAW							
20	MAPK13	AAW							
20	PTPN6	AAW							
20	CCL5	AAW							
20	CCL18	AAW							
20	SOAT1	AAW							
20	TLR1	AAW							
20	GPR65	AAW							
20	C3AR1	AAW							
20	FCER1G	AAW							
20	CD163	AAW							
20	RHOH	AAW							
20	ARRB2	AAW							
20	EPHB2	AAW							
20	GMFG	AAW							
20	ABCG1	AAW							
20	DOCK2	AAW							
20	VAV1	AAW		X	X				
20	MAFB	AAW		X					
20	KCNE3	AAW						X	
20	LCP2	AAW							
20	CD180	AAW							
20	ST8SIA4	AAW							
20	ARL4C	AAW							
20	IGSF6	AAW							
20	IKZF1	AAW		X	X				
20	CD28	AAW							
20	IFB3	AAW							
20	SMPDL3A	AAW							
20	CD6	AAW							
20	LAPTMS	AAW							
20	SDS	AAW							
20	RIPK3	AAW		X					
20	CD86	AAW		X	X				
20	GALNT6	AAW							
20	CD300A	AAW							
20	HMHA1	AAW							
20	CYTH4	AAW							
20	PLRA	AAW							
20	LAT2	AAW							
20	SIGLEC7	AAW							
20	ACAP1	AAW							
20	SELLL3	AAW							
20	CLEC4A	AAW							
20	BIN2	AAW							
20	TLR7	AAW							
20	FAM20A	AAW							
20	CCDC109B	AAW							
20	FAR2	AAW							
20	ADAP2	AAW							
20	TBC1D2	AAW							
20	APOB48R	AAW							
20	SASH3	AAW							
20	APBB1IP	AAW							
20	CRTAM	AAW							
20	SLAMF8	AAW							
20	SLAMF7	AAW							
20	IL21R	AAW							
20	APOBEC3G	AAW							
20	ST14	AAW							
20	DEF6	AAW							
20	GPSM3	AAW							
20	DPEP2	AAW							
20	SUSD1	AAW							
20	CDCP1	AAW							
20	SIGLEC1	AAW							
20	PGBD5	AAW							
20	PLBD1	AAW							
20	DENND1C	AAW							
20	DENND2D	AAW							
20	TRAF3IP3	AAW							
20	TTHY3	AAW							
20	CYP2S1	AAW							
20	NPL	AAW							
20	TM7SF4	AAW							

20	RASSF4	AAW								
20	EMILIN2	AAW								
20	HAVCR2	AAW								
20	UBASH3B	AAW								X
20	DNAIC5B	AAW								
20	C6orf192	AAW								
20	GNG2	AAW								
20	KLHL6	AAW								
20	OSCAR	AAW								
20	TLR8	AAW								
20	CD300LF	AAW								
20	NFAM1	AAW								
20	PIK3AP1	AAW								
20	TMEM86A	AAW								
20	CACNA2D4	AAW								
20	FGD2	AAW								
20	C1orf162	AAW								
20	C16orf54	AAW								
20	TBC1D10C	AAW								
20	LRR33	AAW								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
27	GPR22	IMA								
27	RNF165	IMA								
27	ADORA3	Liver								
27	CADM2	Liver								
27	ZNF417	Liver								
27	LTF	Blood								
27	MMP8	Blood								
27	ESR1	SM		X						
27	FUT1	SM								
27	NPHP1	SM								
27	MEOX1	SM		X						
27	ELOVL7	SM								
27	FAM124B	SM								
27	PAX7	SM		X						
27	ST6GALNAC3	SM								
27	CD300LG	SM								
27	ID1	SM		X						
27	MYF5	SM		X						
27	PLK2	SM								
27	PAGE4	SM								
27	RPA4	SM								
27	C13orf15	SM								
27	TMEM159	SM								
27	MCART1	SM	X							
27	GBP4	SM								
27	ANKRD42	SM	X							
27	NCRNA00201	SM								
27	LOC646329	SM								
27	LOC100289230	SM								
27	ADR82	SF								
27	FUT1	SF								
27	PNP	SF								
27	SCNN1B	SF								
27	NOTCH3	SF								
27	PECA1	SF								
27	TEK	SF								
27	VWF	SF								
27	IGFBP2	SF								
27	NOS3	SF								
27	ADRA2C	SF								
27	GUCY1B3	SF			X	X				
27	PTGER2	SF								
27	NRARP	SF								
27	SHE	SF								
27	OCAD2	SF								
27	PODXL	SF	X							
27	SMAGP	SF								
27	MEOX1	SF		X						
27	HEY1	SF		X						
27	FAM107A	SF			X					
27	ECSCR	SF								
27	SHANK3	SF								
27	PEAR1	SF								
27	ASRGL1	SF								
27	GPR116	SF								
27	PTPRB	SF								
27	PK3R3	SF								
27	FAM124B	SF								
27	IFI27	SF								
27	DYSF	SF								

27	CLDN5	SF								
27	SCN4B	SF								
27	SH2D3C	SF								
27	SGK1	SF								
27	PDE2A	SF								
27	GPR56	SF								
27	TM7	SF								
27	CD300LG	SF								
27	PPP1R16B	SF								
27	HSPA12B	SF								
27	ADCY4	SF								
27	TNFRSF8	SF								
27	CDH13	SF								
27	S1PR1	SF								
27	BMP6	SF								
27	CDH5	SF								
27	GJA4	SF								
27	GNAZ	SF								
27	ID1	SF		X						
27	ID3	SF		X						
27	IL3RA	SF								
27	KDR	SF								
27	MYC	SF		X						
27	PDGFB	SF								
27	CXCL11	SF								
27	TAL1	SF		X	X					
27	IFITM1	SF								
27	SCARF1	SF								
27	HYAL2	SF								
27	HIP1R	SF								
27	EFNB2	SF								
27	DUSP5	SF								
27	EFNA1	SF								
27	EPHB4	SF								
27	NOTCH4	SF								
27	TGM2	SF								
27	TSPAN7	SF								
27	VIPR1	SF								
27	APLN	SF								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
27	GJA5	SF								
27	GPR4	SF								
27	TIE1	SF								
27	MALL	SF								
27	DLL1	SF								
27	MEOX2	SF		X	X					
27	TBX2	SF		X	X					
27	HCP5	SF	X							
27	TUSC3	SF								
27	RAPGEF5	SF								
27	TM4SF1	SF								
27	GPR160	SF								
27	TSPAN13	SF								
27	PARM1	SF								
27	KIF26A	SF								
27	PLA1A	SF								
27	PLP	SF								
27	EGFL7	SF								
27	SLCO4A1	SF								
27	CLEC1A	SF								
27	PCDH12	SF								
27	NRN1	SF								
27	RASIP1	SF								
27	ROBO4	SF								
27	C8orf4	SF								
27	SHROOM4	SF								
27	JAM2	SF								
27	TRIB2	SF								
27	SOX17	SF		X						
27	FRY	SF								
27	HOXD1	SF		X	X			X		
27	TMEM204	SF								
27	Cxorf36	SF								
27	ZNF385D	SF								
27	GIMAP6	SF								
27	MIMRN2	SF								
27	ARHGEF15	SF								
27	MYC1	SF								
27	C17orf28	SF								
27	SQX7	SF		X	X					
27	SEMA6B	SF								

27	C2orf40	SF							
27	CYRF1	SF							
27	C21orf63	SF							
27	C20orf160	SF							
27	TSPAN18	SF							
27	RAB3C	SF							
27	ESAM	SF	X						
27	CHMP4C	SF							
27	SLC16A14	SF							
27	FAM43A	SF							
27	CLEC14A	SF							
27	CMTM8	SF							
27	LRR70	SF							
27	MFSO4	SF							
27	BCL6B	SF		X					
27	KANK3	SF							
27	GALNTL4	SF							
27	LOC401022	SF							
27	LOC644242	SF							
27	LOC100507463	SF							
27	RRBP1	VF							
27	IFI27	VF							
27	IFTM1	VF							
27	CITL1	VF		X					
27	SNORD36A	VF							
27	FLJ14107	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
29	ADR82	AAW							
29	CA2	AAW							
29	CD3G	AAW							
29	CHRNA1	AAW							
29	F13A1	AAW							
29	HK2	AAW							
29	ICAM1	AAW							
29	LAMB3	AAW							
29	SNCA	AAW							
29	IL2RA	AAW							
29	FBP1	AAW							
29	IL1RN	AAW							
29	SLC11A1	AAW							
29	SPP1	AAW							
29	FASLG	AAW							
29	GRIA1	AAW							
29	IL2RB	AAW							
29	IL7	AAW							
29	NPR3	AAW							
29	PLCB4	AAW							
29	PTGER2	AAW							
29	EPSTI1	AAW							
29	GATA3	AAW		X	X				
29	FAT3	AAW							
29	THEMIS	AAW							
29	CARD16	AAW							
29	CXorf65	AAW							
29	CD83	AAW							
29	SULT1C2	AAW							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
29	DUSP27	AAW							
29	PRF1	AAW							
29	GPR1	AAW							
29	PNMAL1	AAW							
29	ANKRD58	AAW							
29	GSG1L	AAW							
29	SCIN	AAW	X						
29	GF11	AAW							
29	TFR3	AAW							
29	PAK3	AAW							
29	TSPAN14	AAW							
29	RASGRP1	AAW							X
29	CCL20	AAW							
29	COL13A1	AAW							
29	PLAC8	AAW							
29	GBP5	AAW							
29	CXCR3	AAW							
29	TMEM71	AAW							
29	RASGRP4	AAW							
29	GPR85	AAW							
29	PMF8P1	AAW							
29	C1orf113	AAW							
29	PPP1R9A	AAW							

29	CD244	AAW							
29	CD8B	AAW							
29	TUBB3	AAW							
29	PRDM1	AAW	X		X				
29	LMNB1	AAW							
29	KLRK1	AAW							
29	GPLD1	AAW							
29	ACADL	AAW							
29	C5AR1	AAW							
29	CD1D	AAW							
29	CNTN1	AAW							
29	CTSD	AAW							
29	TNC	AAW							
29	KCNA3	AAW							
29	KLRB1	AAW							
29	MNDA	AAW							
29	MX2	AAW							
29	RGS1	AAW							
29	SFRP1	AAW							
29	STAC	AAW							
29	UGCG	AAW							
29	CHIT1	AAW							
29	OASL	AAW	X		X				
29	MIFM1	AAW							
29	SIGLECS	AAW							
29	TNFRSF11A	AAW							
29	GZMB	AAW							
29	ECM1	AAW							
29	VNN1	AAW							
29	DSC2	AAW							
29	GPR183	AAW							
29	PPARG	AAW	X		X				
29	SCD	AAW							
29	ITGAD	AAW							
29	ITK	AAW							
29	PTPRCAP	AAW							
29	LHFPL2	AAW							
29	CD96	AAW							
29	MICB	AAW							
29	HS3ST3A1	AAW							
29	HS3ST2	AAW							
29	POU2AF1	AAW	X		X				
29	CCL7	AAW							
29	CD226	AAW							
29	MARCO	AAW							
29	SLC22A18A5	AAW							
29	CIT	AAW							
29	ICOS	AAW							
29	LILRA4	AAW							
29	TSPAN15	AAW	X		X				
29	QPCT	AAW							
29	STAG3	AAW							
29	TBX21	AAW	X		X				
29	ADAM28	AAW							
29	GPR160	AAW							
29	SIT1	AAW							
29	HPGD5	AAW							
29	RP5SKA6	AAW							
29	MOXD1	AAW							
29	TRAT1	AAW							
29	CECR1	AAW	X						
29	SLC16A10	AAW							
29	TREM1	AAW							
29	KIAA1199	AAW							
29	SEPT3	AAW							
29	RPGRIP1	AAW							
29	C12orf5	AAW							
29	CNTN3	AAW							
29	CCDC146	AAW							
29	XK	AAW							
29	SLC22A3	AAW							
29	DEPTOR	AAW							
29	BCL11B	AAW							
29	C5orf23	AAW							
29	TMEM149	AAW							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
29	THSD4	AAW							
29	PRAM1	AAW							
29	PKIB	AAW							
29	NLRP12	AAW							
29	GZMH	AAW							

29	C2orf65	AAW							
29	DNER	AAW							
29	SPOCD1	AAW							
29	PAQR4	AAW							
29	RASGEF1B	AAW							
29	NEGR1	AAW							
29	UAP1L1	AAW							
29	KBTBD12	AAW							
29	LOC283050	AAW							
29	LOC401093	AAW							
29	CRNDE	AAW	X				X		
29	LOC439949	AAW							
29	DDTL	IMA	X						
29	MG37042	IMA							
29	SFRP1	IMA	X						
29	SLIT2	IMA							
29	PCP4	IMA	X						
29	CYFP2	Liver	X						
29	DEPDC1B	Liver							
29	MGAM	Liver							
29	B4GALT5	Liver	X						
29	HYMAI	Liver							
29	LOC650623	Liver							
29	SH1544	Blood							
29	ITGA2B	SF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
35	HLA-DQA1	Blood	X						
35	ALPL	VF							
35	MP2	VF							
35	C10orf55	VF							
35	SPDYE3	VF							
35	ODF2L	VF							
35	ZNF182	VF							
35	ZNF37A	VF		X					
35	KUHD09	VF							
35	ZMAT1	VF							
35	CCDC66	VF							
35	ZNF638	VF							
35	VPS13A	VF							
35	ZNF816	VF							
35	TMEM98	VF							
35	ZNF493	VF							
35	ZNF682	VF							
35	BCLAF1	VF		X	X				
35	SP100	VF		X	X				
35	THOC2	VF							
35	LNP1	VF							
35	GPRASP1	VF							
35	ZNF146	VF							
35	NAPEPLD	VF							
35	BSCL2	VF	X						
35	ZNF84	VF							
35	ISLR2	VF							
35	ZNF195	VF							
35	C2orf63	VF	X		X				
35	SMC6	VF							
35	DMTF1	VF		X					
35	GAS2	VF							
35	GORAB	VF							
35	RPAP3	VF							
35	ANK3	VF							
35	ZNF138	VF		X					
35	LY6K	VF							
35	ALDH4A1	VF							
35	ANKRD36	VF							
35	SCUB2	VF	X						
35	ZNF430	VF							
35	TMEM185A	VF							
35	IFT80	VF							
35	RPH3AL	VF							
35	DHFR1L1	VF							
35	ALCAM	VF							
35	CYC1	VF							
35	HMOX1	VF							
35	ITPR2	VF							
35	MGMT	VF	X						
35	MGST2	VF	X						
35	MYL5	VF							
35	NDUFB3	VF							
35	PNN	VF							
35	MRPL12	VF							

35	ZNF267	VF							
35	ZNF136	VF		X	X				
35	OFD1	VF							
35	AKR7A2	VF							
35	TRIM24	VF		X					
35	GPRC5A	VF							
35	UCHL1	VF							
35	BPTF	VF		X					
35	NAIP	VF							
35	RAB5C	VF		X	X				
35	THOC1	VF		X					
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
35	SMC3	VF							
35	AKAP9	VF							
35	LUC7L3	VF							
35	PCM1	VF							
35	PLCL1	VF							
35	IFT88	VF							
35	ZNF33A	VF		X	X				
35	ZNF33B	VF		X					
35	ZNF90	VF		X					
35	ZNF92	VF		X	X				
35	TMM10	VF	X						
35	SMUG1	VF							
35	ARHGEF16	VF							
35	CEP350	VF							
35	DDX46	VF							
35	ZNF292	VF							
35	SMC5	VF							
35	PRRC2C	VF							
35	PPWD1	VF							
35	NIPBL	VF							
35	ZNF10	VF							
35	SEC31B	VF							
35	SFRS18	VF							
35	UPF2	VF							
35	B9D1	VF							
35	FAM184B	VF							
35	NOP58	VF							
35	XAF1	VF	X		X				
35	PRPF40A	VF							
35	PHIP	VF							
35	NOL8	VF							
35	C10orf118	VF							
35	CCAR1	VF							
35	CL4orf106	VF							
35	MLL5	VF		X	X				
35	CCDC76	VF							
35	CLK4	VF							
35	ZFP14	VF							
35	RBM26	VF							
35	IFIH1	VF							
35	UPF3B	VF							
35	CCDC86	VF							
35	EEP1	VF							
35	ZRANB3	VF							
35	EFCAB7	VF							
35	ZNF594	VF							
35	ZNF382	VF		X					
35	KIAA1731	VF							
35	ESCO1	VF							
35	XAGE3	VF							
35	ZNF675	VF		X					
35	LEO1	VF							
35	SCLT1	VF	X		X				
35	UBLC1	VF							
35	ZUFSP	VF							
35	SH3RF2	VF	X						
35	ZNF567	VF							
35	SAMD9L	VF							
35	ZNF75A	VF							
35	GOLGA8A	VF							
35	ZNF600	VF							
35	CCDC18	VF	X						
35	SNORD87	VF							
35	MALAT1	VF							
35	LOC100009676	VF							
35	ZNF379P	VF							
35	NCRNA00201	VF							
35	CG030	VF							
35	RPL21P44	VF							

Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		T2DM
							Plasma glucose metabolism	Plasma cholesterol metabolism	
35	NSUN5P1	VF							
35	LOC100132352	VF							
35	LOC100499177	VF							
35	LOC100294145	VF							
36	LAMA3	SM							
36	PNP	SM							
36	PECAM1	SM							
36	TEK	SM							
36	ALPL	SM							
36	VWF	SM							
36	IGFBP2	SM							
36	GUCY1B3	SM				X			
36	ICAM2	SM							
36	NRARP	SM							
36	SHE	SM							
36	TRNP1	SM							
36	PODXL	SM							
36	CD74	SM							
36	SMAGP	SM							
36	NOSTRIN	SM		X					
36	SSTR1	SM							
36	TBXA2R	SM							
36	FAM107A	SM							
36	ECSR	SM							
36	SHANK3	SM							
36	CCDC85A	SM							
36	PEAR1	SM							
36	TMEM22	SM							
36	HLA-F	SM							
36	GPR116	SM							
36	MRVI1	SM							
36	MECOM	SM		X	X				
36	PTPRB	SM							
36	PK3R3	SM							
36	SLC14A1	SM							
36	LRR32	SM							
36	IFI27	SM							
36	CSGALNACT1	SM							
36	LDB2	SM		X	X				
36	CCDC68	SM							
36	PDE2A	SM							
36	MX1	SM							
36	GPR56	SM							
36	FLT1	SM			X				
36	SULF2	SM							
36	EDNRA	SM				X			
36	FLI1	SM		X	X				
36	EDN1	SM				X			
36	PPP1R16B	SM							
36	ARHGDI8	SM							
36	TM4SF18	SM							
36	TNFSF10	SM							
36	ADCY4	SM							
36	S1PR1	SM							
36	ATP1B2	SM							
36	CDH5	SM							
36	GJA4	SM							
36	HLA-DMB	SM							
36	ID3	SM		X					
36	KCNA5	SM							
36	KDR	SM							
36	HHEX	SM		X					
36	PTPRN2	SM							
36	CX3CL1	SM							
36	TAL1	SM		X	X				X
36	IFTM1	SM							
36	CAS	SM							
36	SLC1A1	SM							
36	UBE2L6	SM							
36	TGM2	SM							
36	KCNJ8	SM							
36	ANXA3	SM							
36	APLN	SM							
36	ELK3	SM		X					
36	GJA5	SM							
36	TIE1	SM							
36	VEGFC	SM							
36	MALL	SM							
36	HLA-B	SM							
36	HLA-E	SM							

36	TSPAN2	SM							
36	RAMP2	SM							
36	TBX2	SM		X		X			
36	HLA-DMA	SM							
36	OAS3	SM							
36	TUSC3	SM							
36	PDIAS	SM							
36	IFI44L	SM							
36	BTN3A3	SM							
36	RAPGEF5	SM							
36	PITPNC1	SM							
36	TM4SF1	SM							
36	GIMAP2	SM							
36	SLCO4A1	SM							
36	HIGD1B	SM							
36	CLEC1A	SM							
36	PCDH12	SM							
36	NRN1	SM	X						
36	RASIP1	SM							
36	MANSC1	SM							
36	GIMAP4	SM							
36	ROBO4	SM							
36	C8orf14	SM							
36	SEMA3G	SM							
36	SHRQOM4	SM							
36	ARHGAP31	SM							
36	JAM2	SM							
36	C6orf115	SM							
36	SOX17	SM		X				X	
36	C4orf31	SM							
36	TMEM204	SM							
36	Cxorf36	SM							
36	GIMAP6	SM							
36	ARHGEF15	SM							
36	MYCT1	SM							
36	LBI	SM							
36	PLVAP	SM							
36	SQX7	SM		X					
36	SEMA6B	SM							
36	HLA-DPA1	SM							
36	CYR1	SM							
36	RBP7	SM							
36	C20orf160	SM							
36	GIMAP1	SM							
36	TSPAN18	SM							
36	ESAM	SM							
36	EHD4	SM							
36	GJD3	SM							
36	BTNL9	SM							
36	GIMAP7	SM							
36	PLEKH7	SM							
36	GIMAP8	SM							
36	GPIHBP1	SM							
36	C1QTNF9	SM							
36	CMTM8	SM							
36	ITGA1	SM		X					
36	BCL6B	SM							
36	TMEM88	SM							
36	GPR160	VF							
36	CD163L1	VF							
36	SNORD18C	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
37	APOE	AAW				X		X	
37	GK	AAW							
37	MYO5A	AAW							
37	MYO7A	AAW							
37	SOD2	AAW							
37	ADORA3	AAW							
37	ALDH3B1	AAW							
37	ITGA4	AAW							
37	UBASH3A	AAW							
37	SYTL3	AAW							
37	LSP1	AAW							
37	FAM96A	AAW							
37	SFMBT2	AAW							
37	PDE8B	AAW		X	X				
37	OBFC2A	AAW							
37	SPINT1	AAW							
37	ALOX15B	AAW							
37	SIRPG	AAW							
37	IL18BP	AAW							

37	NLRP3	AAW									
37	VAV3	AAW									
37	CCDC88C	AAW									
37	C2orf89	AAW									
37	LILRB5	AAW									
37	LILRB3	AAW									
37	SCARB1	AAW							X		
37	GPR34	AAW									
37	KIAA0748	AAW									
37	LYN	AAW									
37	BLNK	AAW									
37	SH2D1A	AAW									
37	PLIN2	AAW									
37	SLC6A12	AAW									
37	NR1H3	AAW	X		X				X		
37	ZNF385A	AAW									
37	ZMYND15	AAW									
37	SGK1	AAW									
37	C6orf105	AAW									
37	ADAMDEC1	AAW									
37	TNFSF13B	AAW									
37	NCEH1	AAW									
37	ANPEP	AAW									
37	PRRS1	AAW									
37	LST1	AAW									
37	SLC1A3	AAW									
37	GPR68	AAW									
37	DOCK8	AAW									
37	PTPN22	AAW									
37	RAB42	AAW									
37	LY96	AAW									
37	CTSS	AAW									
37	SNX10	AAW									
37	CASP1	AAW									
37	CH1L1	AAW									
37	FIB	AAW									
37	ALOX5AP	AAW									
37	CCR7	AAW									
37	EMR1	AAW									
37	GZMK	AAW									
37	MMP12	AAW									
37	P2RX7	AAW									
37	PIK3CG	AAW									
37	PTPRC	AAW									
37	SELPLG	AAW									
37	SLAMF1	AAW									
37	TIAM1	AAW									
37	TLR2	AAW									
37	KMO	AAW									
37	SKAP2	AAW									
37	E2F2	AAW	X		X						
37	CYTIP	AAW									
37	PLCB2	AAW									
37	AIM2	AAW									
37	IL27RA	AAW									
37	CLEC2B	AAW									
37	CD80	AAW	X		X						
37	CSTA	AAW									
37	HCLS1	AAW	X		X						
37	PLXNC1	AAW									
37	KLRG1	AAW									
37	FMNL1	AAW									
37	GZMA	AAW									
37	LRMP	AAW									
37	TNFAIP2	AAW									
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:					
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM		
37	EV12B	AAW									
37	CXCR6	AAW									
37	IQGAP2	AAW									
37	DUSP10	AAW									
37	EPB41L3	AAW									
37	MYO1F	AAW									
37	EMR2	AAW									
37	CD5	AAW									
37	DAPP1	AAW									
37	TNFRSF21	AAW									
37	MTSS1	AAW									
37	STAB1	AAW									
37	OSBP13	AAW							X		
37	GIMAP2	AAW									
37	PKD2L1	AAW									

37	F11R	AAW								
37	KIF21B	AAW								
37	MREG	AAW								
37	NETO2	AAW								
37	PAG1	AAW								
37	GPR84	AAW								
37	MS4A7	AAW								
37	DNASE2B	AAW								
37	KCNK13	AAW								
37	SAMSN1	AAW								
37	CLEC7A	AAW								
37	PVRIG	AAW								
37	LILRA6	AAW								
37	ATP8B4	AAW								
37	NUP210	AAW								
37	C13orf18	AAW								
37	CXorf21	AAW								
37	TMEM163	AAW								
37	NUAK2	AAW								
37	SLA2	AAW								
37	C15orf48	AAW								
37	TAGAP	AAW								
37	TM4SF19	AAW								
37	ANKRD22	AAW								
37	ATP5V0D2	AAW								
37	C12orf59	AAW								
37	HTRA4	AAW								
37	TMEM26	AAW								
37	RASSF5	AAW								
37	GPRIN3	AAW								
37	LOC284837	AAW								
37	LOC100507463	AAW								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		T2DM	
							Plasma glucose metabolism	Plasma cholesterol metabolism		
38	OCA2	AAW								
38	SGCD	AAW	X		X					
38	IL10	AAW								
38	GLRB	AAW								
38	TARP	AAW								
38	LDB3	AAW								
38	SIRPB1	AAW	X		X					
38	SEPP1	AAW								
38	FAM54A	AAW								
38	ROBO2	AAW								
38	DYSF	AAW								
38	C18orf38	AAW								
38	MFSO2A	AAW								
38	SERPINE2	AAW								
38	MYOCD	AAW		X	X					
38	C8orf34	AAW								
38	LTF	AAW								
38	BTC	AAW								
38	CD69	AAW								
38	COL15A1	AAW								
38	KCNN4	AAW								
38	KPNA2	AAW								
38	FTN	AAW								
38	GRAP2	AAW								
38	IRX5	AAW		X	X					
38	UBD	AAW								
38	GNLY	AAW								
38	STEAP1	AAW								
38	CLEC5A	AAW								
38	DTX4	AAW								
38	ARHGAP15	AAW								
38	PMALP1	AAW								
38	NOD2	AAW								
38	NTNG2	AAW								
38	MYO18B	AAW								
38	METTL7B	AAW								
38	RALGPS2	AAW								
38	SCUBE3	AAW								
38	SEMA3D	AAW								
38	FAM19A2	AAW								
38	SLC24A5	AAW								
38	NCKAP5	AAW								
38	HK2	IMA								
38	GUCY1A2	IMA								
38	MIRO	IMA								
38	CDH17	IMA								
38	MYO16	IMA								
38	IL12RB2	IMA								

38	LY75	IMA	X							
38	TYRO3	IMA								
38	AND3	IMA	X							
38	CCDC122	IMA								
38	ATP6VOD2	IMA								
38	SNORD46	IMA								
38	SNORD58A	IMA	X							
38	LOC646903	IMA								
38	SLC11A1	Liver		X						
38	SREBF1	Liver	X							
38	ZWINT	Liver								
38	MAD1L1	Liver								
38	KIAA0101	Liver								
38	RRM2	Liver								
38	SKA1	Liver								
38	CENPA	Liver								
38	TOP2A	Liver								
38	CEP55	Liver								
38	NUSAP1	Liver								
38	CDKN3	Liver								
38	RAD51AP1	Liver								
38	HMMR	Liver								
38	FAM111B	Liver	X		X					
38	DGAP5	Liver								
38	TKT	Liver								
38	CDK1	Liver								
38	CCNA2	Liver								
38	TNC	Liver	X							
38	MAD2L1	Liver								
38	NEK2	Liver								
38	PRC1	Liver							X	
38	PTTG1	Liver		X	X					
38	CCNB2	Liver								
38	KIF20A	Liver								
38	NDC80	Liver	X							
38	UBE2C	Liver								
38	GUCY2B	Liver								
38	UBE2T	Liver								
38	ECT2	Liver								
38	CDC48	Liver								
38	PBK	Liver								
38	NCAPG	Liver								
38	CDC43	Liver								
38	MND1	Liver								
38	RDH12	Liver								
38	DKK3	Blood	X							
38	IL3RA	Blood								
38	TAGLN	SM	X							
38	UGT2B17	SM	X							
38	CMA1	SM							X	
38	OLFM1	SM								
38	CHL1	SM								
38	RHCE	SM	X							
38	OAF	SM								
38	ALOX15	SF								
38	PDZK1IP1	SF								
38	SGIP1	SF								
38	MAL2	SF	X							
38	PRR15	SF								
38	LOC730102	SF								
38	RNFT2	VF								
38	ESM1	VF								
38	KIAA1239	VF								
38	ANKRD34C	VF								
38	SCEL	VF								
38	CX3CR1	VF								
38	SCN11A	VF								
38	ID2-AS1	VF								
38	LOC145663	VF								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:				
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
41	RPRG	IMA								
41	APRT	IMA								
41	PMS1	IMA								
41	ZNF429	IMA								
41	TRIM34	IMA								
41	ALG3	IMA								
41	KLHL5	IMA								
41	ZNF152	IMA								
41	ZNF37A	IMA		X	X					
41	TDRD6	IMA								
41	ZMAT1	IMA								

41 CCDC66	IMA					
41 ZNF793	IMA					
41 C5orf56	IMA					
41 ZNF107	IMA					
41 PQBP1	IMA	X				
41 DCLRE1C	IMA					
41 CCDC46	IMA					
41 MAP9	IMA					
41 C7orf63	IMA					
41 CCDC41	IMA					
41 ZNF596	IMA					
41 ZNF493	IMA					
41 ZNF682	IMA					
41 MS4A14	IMA					
41 CCDC30	IMA					
41 ZNF83	IMA	X	X			
41 ZNF195	IMA					
41 NDE1	IMA					
41 LDHAL6A	IMA					
41 ZNF234	IMA	X				
41 ZNF737	IMA					
41 ZNF138	IMA	X	X			
41 C1orf27	IMA					
41 ANKRD36	IMA					
41 ZNF540	IMA					
41 NEXN	IMA					
41 ZNF573	IMA					
41 GOLGA4	IMA					
41 SLC16A6	IMA					
41 IFT80	IMA					
41 CEP152	IMA					
41 DHFRL1	IMA					
41 TBCB	IMA					
41 CYC1	IMA					
41 PNN	IMA					
41 SNRPB	IMA					
41 ZNF91	IMA	X				
41 TRIP11	IMA	X	X			
41 NAIP	IMA					

41 SMC3	IMA			
41 RAD50	IMA			
41 MPHOSPH10	IMA			
41 TUBB2C	IMA			
41 PCM1	IMA			
41 PIBF1	IMA			
41 STARD10	IMA			
41 DIAPH2	IMA			
41 CEP110	IMA			
41 ZNF92	IMA	X		
41 SYCP2	IMA			
41 KIAA1009	IMA			
41 ANKRD26	IMA			
41 ZC3H13	IMA			
41 LARP7	IMA			
41 SFRS18	IMA			
41 ZNF117	IMA	X		
41 ZNF593	IMA	X		
41 EIF5B	IMA			
41 ESF1	IMA			
41 MPHOSPH8	IMA			
41 XAF1	IMA			
41 C10orf118	IMA			
41 C12orf35	IMA			
41 CCAR1	IMA			
41 C14orf106	IMA			
41 ETAA1	IMA			
41 KIAA1377	IMA			
41 ZNF471	IMA	X		
41 ZFP14	IMA			
41 CWC22	IMA			
41 NDUFS7	IMA			
41 ATAD5	IMA			
41 SPEF2	IMA			
41 CEP135	IMA			
41 HMG5	IMA	X		
41 CCDC55	IMA	X	X	
41 C5orf32	IMA			
41 ZNF594	IMA			
41 C3orf15	IMA			

41 LRRCC1 IMA
41 ZNF354B IMA
41 CDKN2AIPNL IMA

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41	ZNF721	IMA							
41	ZNF675	IMA		X					
41	C13orf22	IMA							
41	ZNF441	IMA							
41	ZNF785	IMA							
41	ZNF781	IMA							
41	KLHDC1	IMA							
41	C9orf93	IMA							
41	GCC2	IMA							
41	ZNF600	IMA							
41	RPL23AP32	IMA							
41	ZNF204P	IMA							
41	MCM3AP-AS1	IMA	X						
41	FAM13AQS	IMA							
41	ZNF37BP	IMA							
41	RPL21P44	IMA							
41	LOC728640	IMA							
41	RP1-177G6.2	IMA							
41	MIR644	IMA							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		T2DM
							Plasma glucose metabolism	Plasma cholesterol metabolism	
43	GRP	AAW							
43	SPHKAP	AAW							
43	NELL2	AAW	X						
43	MPR13	AAW							
43	SPINK2	AAW							
43	GPR88	AAW							
43	ARMC9	AAW	X						
43	KL8	AAW							
43	LEP	Liver							X
43	LPL	Liver				X		X	
43	MYOC	Liver							
43	ADIPOQ	Liver							
43	MFAP5	Liver							
43	NFY1R	SM							
43	HMGCL11	SM							
43	C7orf68	SM							
43	F3	SM							
43	CEP152	SM							
43	AMPH	SM	X						
43	LY75	SM							
43	RERGL	SM							
43	AMPD1	SF							
43	CACNA1S	SF							
43	MYH7	SF							
43	MYL3	SF							
43	PGAM2	SF							
43	MYL2	SF						X	
43	RYR1	SF							
43	CACNG1	SF							
43	C8orf22	SF							
43	DUSP13	SF							
43	MURC	SF							
43	UNC45B	SF							
43	C3orf43	SF							
43	XIRP2	SF							
43	DUSP27	SF							
43	ACTA1	SF							
43	MYH2	SF	X		X				
43	ACTN2	SF		X	X				
43	ACTN3	SF							
43	DHRS7C	SF							
43	SYNPO2L	SF							
43	MYOZ3	SF							
43	TNNT1	SF							
43	CSRFP3	SF							
43	ART3	SF							
43	C10orf71	SF							
43	TNNI2	SF							
43	NEB	SF							
43	PYGM	SF							
43	EGF	SF							
43	ENO3	SF							
43	XIRP1	SF							
43	CASQ1	SF							
43	CAV3	SF							
43	CKM	SF							
43	MYBPC1	SF							
43	MYF6	SF							
43	PPP1R3A	SF		X					
43	SLN	SF							
43	TNNC2	SF							

43	TNNC1	SF							
43	TTN	SF							
43	TCAP	SF							
43	FBP2	SF							
43	ATP2A1	SF							
43	MYBPC2	SF							
43	RPL3L	SF							
43	COX6A2	SF							
43	MB	SF							
43	KBTBD10	SF							
43	NRAP	SF							
43	HSPB3	SF							
43	APOBEC2	SF							
43	MYL6F	SF							
43	TMOD4	SF							
43	SMPX	SF							
43	ASB2	SF							
43	FBXO40	SF							
43	MYOZ2	SF							
43	JPH1	SF							
43	HHATL	SF							
43	MYOZ1	SF							
43	DUSP26	SF							
43	MYPN	SF							
43	TRIM63	SF							
43	MYL1	SF							
43	ASB5	SF							
43	ABRA	SF		X					
43	LRR39	SF							
43	PEBP4	SF							
43	ANKRD23	SF							
43	STAC3	SF							
43	KBTBD5	SF							
43	TXLNB	SF							
43	VGLL2	SF		X		X			
43	CMYA5	SF							
43	C20orf166	SF							
43	SLC36A2	SF							
43	YIPF7	SF							
43	LMOD3	SF	X			X			
43	SMYD1	SF		X					
43	LMOD2	SF							
43	MIR133A1	SF							
43	LOC100131138	SF							
43	MITP	VF							
43	AMDHD1	VF	X						
43	GSDMA	VF	X						
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
44	CYBA	SF							
44	TCN2	SF							
44	ICAM2	SF							
44	ZNF429	SF							
44	CYP27C1	SF							
44	SPDYE3	SF							
44	KLHL5	SF							
44	ZNF182	SF							
44	ZNF37A	SF		X					
44	C10orf128	SF							
44	ZMAT1	SF							
44	CCDC66	SF							
44	ZNF793	SF							
44	CCDC46	SF							
44	MAP9	SF							
44	CCDC112	SF							
44	RRBP1	SF							
44	ZNF682	SF							
44	CCDC30	SF							
44	ZNF53	SF		X					
44	ZEB1	SF		X					
44	C13orf31	SF							
44	DNAJC2	SF							
44	ZNF195	SF							
44	C22orf46	SF							
44	ZNF234	SF							
44	ZNF566	SF							
44	PAFAH1B3	SF							
44	SGOL2	SF							
44	ZNF138	SF		X					
44	TLCD2	SF							
44	MFNG	SF							
44	NEXN	SF							

44	ZNF573	SF							
44	GOLGA4	SF							
44	KIF21A	SF							
44	DHFR1L1	SF							
44	AHNAK	SF							
44	HPCAL1	SF							
44	MGST2	SF							
44	PNN	SF							
44	PSMB9	SF							
44	RECQL	SF							
44	ZNF91	SF		X			X		
44	ZKSCAN1	SF		X					
44	EEA1	SF							
44	PSMB8	SF							
44	TRIP11	SF		X			X		
44	KIFS8	SF							
44	PPIG	SF							
44	SMC3	SF							
44	RAD50	SF							
44	CEBP2	SF							
44	MPHOSPH10	SF							
44	MAK	SF	X						
44	MYH10	SF							
44	RIBF1	SF							
44	DIAPH2	SF							
44	ZNF33A	SF		X					
44	ZNF208	SF							
44	NRM	SF							
44	PYCARD	SF							
44	ANKRD11	SF							
44	DNITIP2	SF							
44	FAM115A	SF							
44	KIAA1009	SF							
44	ANKRD26	SF							
44	ZC3H13	SF							
44	PHF3	SF							
44	LARP7	SF							
44	SFRS18	SF							
44	EIFS8	SF							
44	KIF20B	SF							
44	TAOK3	SF							
44	ESF1	SF							
44	MPHOSPH8	SF							
44	C10orf118	SF							
44	CCAR1	SF							
44	CHST7	SF							
44	NDUFA4L2	SF							
44	MAVS	SF							
44	CWC22	SF							
44	RBAK	SF		X					
44	UPF3B	SF							
44	HMGNS	SF		X					
44	CCDC55	SF							
44	COX4I2	SF							
44	LRRC1	SF							
44	SELM	SF							
44	ZNF721	SF							
44	ZNF441	SF							
44	C19orf18	SF							
44	SPDY1	SF							
44	GCC2	SF							
44	ZNF600	SF							
44	CCDC18	SF							
44	NCRNA00294	SF							
44	LOC100132707	SF							
44	ZNF378P	SF							
44	LOC284440	SF							
44	FLJ11235	SF							
44	LOC100329109	SF							
44	LOC100506046	SF							
44	ZFP112	VF							
44	KIAA1377	VF							
44	ZFP2	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:			
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
47	SIRPB1	Liver	X						
47	F13A1	Blood							
47	GP1BA	Blood							
47	HGD	Blood	X						
47	ITGB3	Blood							
47	PROS1	Blood							
47	CDKN1A	Blood							

47 ITGA2B	Blood						
47 VWF	Blood						
47 LTBP1	Blood						
47 ADRA2A	Blood					X	
47 ALOX12	Blood						
47 GUCY1A3	Blood			X		X	
47 GUCY1B3	Blood			X		X	
47 MAOB	Blood						
47 PTGS1	Blood						
47 LY6G6F	Blood	X		X			
47 MGLL	Blood						
47 PARVB	Blood						
47 CTDSPL	Blood						
47 SLC35D3	Blood	X					
47 MFAP3L	Blood	X		X			
47 TTC7B	Blood						
47 TFPI	Blood						
47 CMTM5	Blood						
47 SLC6A4	Blood						
47 PEAR1	Blood						
47 PDE5A	Blood	X					
47 GP6	Blood						
47 CLEC1B	Blood	X					
47 ELOVL7	Blood	X					
47 ABCC4	Blood	X					
47 NRG1	Blood						
47 CLDN5	Blood						
47 GFI1B	Blood	X		X			
47 DNMT3	Blood						
47 PCYT1B	Blood						
47 VEPH1	Blood						
47 LANCL3	Blood						
47 NEXN	Blood						
47 EGF	Blood						
47 CTTN	Blood						
47 BEND2	Blood						
47 SEPT4	Blood						
47 ACSBG1	Blood						
47 CD9	Blood						

47 GNAZ	Blood			
47 ITGB5	Blood			
47 MAP1A	Blood			
47 MEIS1	Blood	X		
47 PBX1	Blood	X		
47 PRKAR2B	Blood			
47 CXCL5	Blood	X		
47 SELP	Blood			
47 SPARC	Blood			
47 TAL1	Blood	X	X	
47 THBS1	Blood			
47 TNFSF4	Blood			
47 RAB27B	Blood			
47 CALD1	Blood			
47 GRB14	Blood	X		X
47 HOMER2	Blood			
47 MPL	Blood			
47 VEGFC	Blood			
47 TSC22D1	Blood	X		
47 MYL9	Blood			
47 AGPAT1	Blood	X		
47 WASF3	Blood	X		
47 FSTL1	Blood	X		
47 MMRN1	Blood			
47 HSPC159	Blood			
47 VSIG2	Blood			
47 EHD2	Blood			
47 SEC14L5	Blood	X		
47 RHOBTB1	Blood			
47 ABLIM3	Blood	X		X
47 ENDOD1	Blood			
47 TMEM158	Blood			
47 RAB6B	Blood			
47 TMEM40	Blood			
47 NT5M	Blood	X		
47 HRASLS	Blood	X		
47 SLC24A3	Blood			
47 HIST1H2BJ	Blood			
47 P2RY12	Blood			
47 SH3BGRL2	Blood			

47 JAM3	Blood		
47 MYLK	Blood		
47 PTCRA	Blood X		X

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47	ESAM	Blood								
47	SPOCD1	Blood								
47	ENKUR	Blood								
47	C15orf26	Blood								
47	SAMD14	Blood								
47	FRMD3	Blood								
47	PKHD1L1	Blood	X							
47	TREML1	Blood								
47	TSPAN33	Blood								
47	GRHL1	Blood	X							
47	FLJ44511	Blood								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:			
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM	
62	SGCA	AAW								
62	CAPN3	AAW								
62	COL4A4	AAW	X		X					
62	RPGR	AAW								
62	ODF2L	AAW								
62	ZNF793	AAW								
62	CYBSRL	AAW								
62	AGTRAP	AAW								
62	LNP1	AAW								
62	HMSD	AAW								
62	ZNF234	AAW	X							
62	ETV3	AAW		X	X					
62	PAFAH1B3	AAW								
62	ACOT13	AAW								
62	ARHGAP33	AAW								
62	CELF6	AAW								
62	MOSPD2	AAW								
62	ICAM3	AAW								
62	MYL5	AAW								
62	PSMB10	AAW								
62	CLEC3B	AAW						X		
62	HIST1H4C	AAW								
62	AP2S1	AAW								
62	EIF4EBP1	AAW								
62	IFI35	AAW								
62	SCAMP2	AAW								
62	NAB2	AAW		X						
62	SOX15	AAW		X	X					
62	ZNF208	AAW								
62	FBXO2	AAW								
62	INTU	AAW								
62	HAUS7	AAW								
62	SLC39A4	AAW								
62	FBXO5	AAW								
62	BEND5	AAW								
62	SGIP1	AAW								
62	MRPL41	AAW								
62	ZNF594	AAW								
62	ZNF514	AAW								
62	ZDHC12	AAW								
62	C3orf15	AAW	X		X					
62	LRRC1	AAW								
62	C19orf33	AAW								
62	CCDC151	AAW								
62	ZNF441	AAW								
62	PLEKHH2	AAW								
62	SPDYE1	AAW								
62	ZNF714	AAW								
62	RPL23AP32	AAW								
62	SNORD68	AAW								
62	RNU4ATAC	AAW								
62	LOC100132707	AAW								
62	HCG27	AAW								
62	LOC100329109	AAW								
62	LOC100506046	AAW								
62	GPX1	IMA								
62	CC2D2B	IMA								
62	C1orf204	IMA								
62	ZNF814	IMA								
62	DMGDH	IMA								
62	RPP25	IMA	X							
62	ZNF273	IMA								
62	ZNF69	IMA		X						
62	C10orf79	IMA	X		X					
62	MCM8	IMA								
62	TPTF2P2	IMA								
62	HERC2P7	IMA								
62	GABBR1	Liver								
62	SNORD11	Liver								

62	C8orf4	Blood								
62	AMT	SM								
62	COL4A5	SM								
62	MASTL	SM	X							
62	DAPK2	SM	X		X					
62	CSAD	SM								
62	KAT2A	SM		X						
62	NANOG	SM		X	X					
62	ZNF514	SM								
62	SNORA33	SM								
62	LOC344595	VF								
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:			
							Plasma glucose metabolism	Plasma cholesterol metabolism		T2DM
63	PEPD	VF						X		
63	TSPO	VF								
63	L3MBTL3	VF								
63	ZCCHC11	VF								
63	PM20D2	VF								
63	ETFB	VF								
63	GATSL3	VF								
63	HSD17B10	VF								X
63	FITM2	VF								
63	LIG4	VF								
63	C10orf125	VF								
63	PSIP1	VF								
63	NSDHL	VF								
63	GEN1	VF								
63	OAZ3	VF								
63	RBBP4	VF								
63	LRRFIP1	VF		X	X					
63	CTF1	VF								
63	CHORDC1	VF								
63	SETDB2	VF								
63	DHCR7	VF								
63	WDR52	VF								
63	ZFP62	VF								
63	PARP8	VF								
63	RBM4	VF		X						
63	ZFYVE21	VF								
63	HNRNPA2B1	VF								
63	NPAT	VF		X	X					
63	RBBP8	VF								
63	BTAFL1	VF		X	X					
63	MTRF1	VF								
63	NUCB2	VF								
63	NKTR	VF								
63	TARBP1	VF								
63	MALT1	VF								
63	TMED1	VF								
63	KIF3A	VF								
63	ZNF184	VF								
63	TARDBP	VF		X						
63	SLC25A10	VF								
63	GCFC1	VF		X	X					
63	SACS	VF								
63	KIAA0528	VF								
63	ABHD14A	VF								
63	ATL3	VF								
63	MRPL2	VF								
63	NIN	VF								
63	DONSON	VF								
63	MCM9	VF								
63	RAB20	VF								
63	PRPF38B	VF								
63	C12orf95	VF								
63	FGD6	VF								
63	CENPJ	VF								
63	CENL1	VF								
63	HS1BP3	VF								
63	CCDC14	VF								
63	C1orf163	VF								
63	NDUFS7	VF	X							
63	CEP70	VF								
63	CEP135	VF								
63	ANKRD36B	VF								
63	MCM8	VF								
63	ZC3H8	VF		X	X					
63	GLMN	VF								
63	HELQ	VF								
63	CCDC45	VF								
63	ZNF700	VF								
63	IFI27L1	VF	X		X					

63	PDK1L	VF									
63	PSENE1	VF									
63	C15orf38	VF									
63	SASS6	VF									
63	C5orf34	VF									
63	CMAH	VF									
63	LOC285359	VF									
63	DKFZ779M065	VF									
63	FLJ31306	VF									
63	CCDC144B	VF									
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:				
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM		
68	MYOC	AAW									
68	F10	AAW									
68	IGFBP1	AAW									
68	STEAP2	AAW									
68	LRRN3	AAW									
68	SYTL2	AAW									
68	AIF1L	AAW	X								
68	IL18R1	AAW									
68	CALCRL	AAW									
68	HSPB3	AAW	X								
68	MYOZ1	AAW	X								
68	GRHL2	AAW									
68	ZNF257	AAW									
68	ADHFE1	AAW									
68	LHFP11	AAW									
68	SERHL	AAW	X								
68	LHCGR	IMA									
68	HIPK3	IMA									
68	C11orf93	IMA									
68	AIF1L	IMA									
68	ZNF43	IMA	X		X						
68	ZNF124	IMA									
68	BST1	IMA									
68	USP6	IMA									
68	SLC22A15	IMA									
68	CLMN	IMA									
68	RASA4	Liver									
68	HS3ST2	Liver									
68	RTP3	Liver									
68	ARLSB	Liver									
68	ALOX15B	Blood									
68	GLOD5	Blood									
68	LOC100271836	Blood									
68	IGAM1	SM									
68	KLHL5	SM									
68	ZMAT1	SM									
68	CCDC66	SM									
68	CCDC41	SM									
68	LIG4	SM									
68	C2orf63	SM									
68	ZNF138	SM		X	X						
68	Cxorf57	SM									
68	ZNF92	SM		X	X						
68	ANKRD26	SM									
68	ESF1	SM									
68	ETAA1	SM									
68	ZMYM1	SM									
68	HMGNS	SM		X	X						
68	ZNF721	SM									
68	ZNF441	SM									
68	GCC2	SM									
68	ANKDD1A	SM									
68	LOC339751	SM									
68	DKK3	SF									
68	PLAU	SF									
68	BHMT2	SF									
68	RPH3AL	SF									
68	FGF10	SF									
68	GABRE	SF									
68	PRND	SF									
68	GAL3ST4	SF									
68	ANKRD42	SF	X		X						
68	HEATR4	SF									
68	RASL11A	SF									
68	CP	VF									
68	LDLR	VF				X			X		
68	SCN2A	VF									
68	PACRG	VF									
68	LYGE	VF									
68	NUDT2	VF	X								

Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		T2DM
							Plasma glucose metabolism	Plasma cholesterol metabolism	
73	COL1A1	Liver							
73	COL1A2	Liver							
73	PMP22	Liver							
73	LTBP2	Liver							
73	MGP	Liver							
73	PTGDS	Liver							
73	PTGIS	Liver	X						
73	NTRK2	Liver							
73	CP2	Liver							
73	DKK3	Liver							
73	NPNT	Liver							
73	FLNA	Liver		X					
73	MMP2	Liver							
73	AEBP1	Liver		X	X				
73	C1QTNF7	Liver							
73	SSPN	Liver							
73	GPC3	Liver							
73	SMOC2	Liver							
73	SCUBE2	Liver							
73	SRPX	Liver							
73	IGSF10	Liver							
73	CLDN11	Liver							
73	DPYSL3	Liver							
73	MFAP4	Liver							
73	GPC4	Liver							
73	FRZB	Liver							
73	APOD	Liver	X						
73	COL15A1	Liver	X						
73	CRYAB	Liver							
73	DPT	Liver							
73	FBLN1	Liver							
73	FMOD	Liver							
73	IGFBP6	Liver							
73	MN1	Liver							
73	PRELP	Liver							
73	SOD3	Liver							
73	THBS2	Liver							
73	FAP	Liver							
73	ROR2	Liver							
73	PTGE5	Liver							
73	COL8A2	Liver							
73	ISLR	Liver							
73	LOXL1	Liver							
73	MEOX2	Liver		X					
73	MYL9	Liver							
73	SPON1	Liver	X						
73	PDGFRL	Liver	X						
73	THY1	Liver							
73	FBLN5	Liver	X		X				
73	ADAMTS3	Liver							
73	HSPB7	Liver							
73	EHD2	Liver							
73	PDZRN3	Liver							
73	ABI3BP	Liver							
73	VGLL3	Liver		X	X				
73	SERTAD4	Liver	X		X				
73	VANGL2	Liver							
73	SLC24A3	Liver							
73	COL14A1	Liver							
73	CLSTN2	Liver							
73	RASL11B	Liver							
73	GAL3ST4	Liver							
73	COL21A1	Liver							
73	AHNAK2	Liver							
73	HSPB6	Liver							
73	MAMDC2	Liver							
73	SVEP1	Liver							
73	CCDC80	Liver							
73	FIBIN	Liver							
73	CHI3L1	Liver	X						
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		T2DM
							Plasma glucose metabolism	Plasma cholesterol metabolism	
76	ADR2	VF							
76	AVPR2	VF							
76	ENG	VF							
76	TCN2	VF							
76	VWF	VF							

76	ADRA2C	VF									
76	CA4	VF									
76	TPD5L1	VF									
76	BAAC	VF									
76	CABP1	VF									
76	TGFB111	VF		X	X						
76	RHOC	VF									
76	PLOD3	VF									
76	FAM162B	VF									
76	LRR32	VF									
76	CLDN5	VF									
76	CASKIN2	VF									
76	PDE2A	VF									
76	CD300LG	VF									
76	AIF1L	VF									
76	TRPM4	VF									
76	HSPA12B	VF									
76	CRIP2	VF									
76	GJA4	VF									
76	GNAZ	VF									
76	PDGFB	VF									
76	TAL1	VF		X							
76	ADAM15	VF									
76	NOTCH4	VF									
76	TIE1	VF									
76	MALL	VF									
76	SOX13	VF		X							
76	RAMP2	VF	X		X						
76	RAMP3	VF									
76	PCGF2	VF		X							
76	BRCA1	VF		X							
76	HYAL1	VF									
76	BACE2	VF									
76	LMCD1	VF		X							
76	ARHGEF17	VF									
76	NPDC1	VF									
76	KIF26A	VF									
76	KIF20B	VF									
76	EGFL7	VF									
76	RASL12	VF									
76	PCDH12	VF									
76	RASIP1	VF									
76	ROBO4	VF									
76	NDUFA4L2	VF									
76	TINAGL1	VF								X	
76	SOX17	VF		X	X						
76	ARAP3	VF									
76	Cxorf36	VF									
76	GRRP1	VF									
76	ARHGEF15	VF									
76	USHBP1	VF									
76	SEMA6B	VF									
76	RBP7	VF									
76	C20orf160	VF									
76	RAB3C	VF									
76	ESAM	VF									
76	CLEC14A	VF									
76	GPIHBP1	VF									
76	BCL6B	VF		X	X						
76	KANK3	VF									
76	TMEM88	VF									
76	LOC158376	VF									
76	FLI11235	VF									
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	Candidate gene in GWAS for:					
						CAD	Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM		
94	ANK1	Blood									
94	EPB42	Blood									
94	FECH	Blood									
94	HMBS	Blood									
94	SLC4A1	Blood									
94	SNCA	Blood									
94	OR2W3	Blood									
94	ACSL6	Blood									
94	TSP02	Blood									
94	IFIT1B	Blood									
94	SRRD	Blood									
94	SLC6A9	Blood									
94	ALDH5A1	Blood	X								
94	EPB49	Blood									
94	SLC14A1	Blood									
94	CA1	Blood									
94	TBCEL	Blood	X		X						

Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
100	FBXO2	S							
100	7	F							
100	FAM89	S							
103	C1QB	AAW							
103	CD14	AAW							
103	CD4	AAW							
103	LGMN	AAW							
103	CD37	AAW							
103	CD68	AAW							
103	TBXAS1	AAW							
103	CD33	AAW							
103	VSIG4	AAW							
103	CXCL16	AAW							
103	C1QC	AAW							
103	SLC7A7	AAW							
103	DHRS9	AAW							
103	TYROBP	AAW							
103	AOAH	AAW							
103	PLEKH02	AAW							
103	IL18	AAW							
103	AIF1	AAW							
103	CAPG	AAW							
103	CD48	AAW							
103	CD72	AAW							
103	CD52	AAW							
103	GNA15	AAW							
103	HLA-DMB	AAW							
103	RAC2	AAW							
103	UCP2	AAW							
103	VAMP8	AAW			X	X			
103	LY86	AAW							
103	CSF1R	AAW							
103	RNAS6	AAW							
103	HLA-DMA	AAW						X	
103	PLTP	AAW							
103	CD300C	AAW							
103	C1QA	AAW							
103	SLC15A3	AAW							
103	TREM2	AAW							
103	CPVL	AAW							
103	MS4A6A	AAW							
103	MS4A4A	AAW							
103	EFHD2	AAW							
103	TNFAIP9L2	AAW							
103	FERMT3	AAW							
103	CMTM7	AAW							
103	LRRC25	AAW							
103	C17orf87	AAW							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
112	ADRA1D	AAW							
112	LOC100287428	AAW							
112	ENPP5	AAW							
112	ABCB4	IMA							
112	CSorf47	IMA							
112	ZCWPW2	IMA							
112	HIST1H1D	IMA							
112	NRN1	IMA							
112	GBP3	IMA	X						
112	BTBD16	IMA	X						
112	C1orf110	IMA							
112	CETP	Liver						X	
112	LDLR	Liver				X		X	
112	CR1	Liver							
112	CFP	Liver							
112	SIGLEC10	Liver							
112	CCR1	Liver							
112	EMR1	Liver	X		X				
112	KCNJ10	Liver							
112	GPR65	Liver							
112	CYSLTR1	Liver							
112	MARCO	Liver							
112	CXCR2P1	Liver							
112	ARL16	Blood	X						
112	C21orf15	Blood							
112	CTLA4	SM							
112	CPVL	SM							
112	SNORD50A	SM							
112	C14orf86	SM							
112	JAKMIP2	SF							

112	KANK4	SF							
112	GUSBP3	SF							
112	SMAS	SF							
112	SERTAD4	VF							
112	GALNT14	VF							
112	PRINS	VF	X						
112	NCRNA00241	VF							
112	HCG27	VF	X		X				
112	C15orf28	VF							
112	C22orf34	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
128	IFIT1	Liver							
128	IFI44	Liver							
128	SERPINC1	Blood							
128	EPST11	Blood							
128	TRIM6	Blood							
128	IFIT3	Blood							
128	OAS1	Blood	X						
128	OAS2	Blood							
128	SPATS2L	Blood							
128	LY6E	Blood							
128	IFI27	Blood	X						
128	EIF2AK2	Blood							
128	MX1	Blood	X						
128	IFIT1	Blood							
128	IFI6	Blood							
128	OASL	Blood		X	X				
128	OTOF	Blood							
128	ISG15	Blood							
128	CCL8	Blood	X		X				
128	OAS3	Blood							
128	IFI44	Blood							
128	IFI44L	Blood							
128	LAMP3	Blood							
128	LAP3	Blood	X						
128	HERC5	Blood							
128	USP18	Blood							
128	XAF1	Blood							
128	IFITM3	Blood							
128	PLSCR1	Blood							
128	SIGLEC1	Blood							
128	RSAD2	Blood							
128	CMPK2	Blood							
128	IFI6	SF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
144	CYBB	Liver							
144	C1QB	Liver							
144	FCGR3A	Liver							
144	FOLR2	Liver							
144	FCGR2B	Liver							
144	LILRB4	Liver							
144	LILRB5	Liver							
144	CD33	Liver							
144	GPR34	Liver							
144	VSIG4	Liver							
144	C1QC	Liver							
144	PLAC8	Liver							
144	LPAR5	Liver							
144	TIMD4	Liver						X	
144	PLA2G7	Liver	X						
144	IL18	Liver							
144	C3AR1	Liver							
144	LY86	Liver	X		X				
144	CD180	Liver							
144	IGSF6	Liver							
144	CDS1	Liver							
144	PILRA	Liver							
144	CPVL	Liver	X		X				
144	MS4A4A	Liver							
144	PDCD1LG2	Liver							
144	HAVCR2	Liver							
144	SPIC	Liver		X					
144	P2RY13	Liver							
144	PIK3R3	VF							
Module ID	Gene Symbol	Tissue	eQTL	TF	Key Driver	CAD	Candidate gene in GWAS for:		
							Plasma glucose metabolism	Plasma cholesterol metabolism	T2DM
157	ZNF429	Liver							
157	ZNF37A	Liver		X					
157	DDX60L	Liver							
157	ZNF493	Liver							

157	ZNF680	Liver							
157	SMC6	Liver	X						
157	NR1D2	Liver		X					
157	ZNF138	Liver		X	X				
157	ZNF91	Liver		X					
157	PIBF1	Liver							
157	KIAA1009	Liver							
157	ANKRD26	Liver	X						
157	ESF1	Liver							
157	THAP9	Liver	X						
157	PYROXD1	Liver	X						
157	HMGNS	Liver		X					
157	EFCAB7	Liver	X						
157	LRCC1	Liver	X		X				
157	SLC2A13	Liver							
157	TTC18	Liver							
157	ZNF441	Liver							
157	KLHDC1	Liver							
157	ZNF204P	Liver							
157	C2orf86	SF							

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