Table S1 GWAS results for previously reported CAD or MI loci.

gene or locus	SNP (Previously reported)	OR(95% CI) (Previously reported)	Chrloc	Allele (risk/non-risk)	Detection Power of our GWAS	proxy SNP (GWAS)	r^2	Chr	Chrloc	MAF(case/ctrl) (GWAS)	*P* GC (GWAS)	OR(95%CI) (GWAS)	Ref.
PCSK9	rs11206510	1.12 (1.02-1.23)	55,268,627	T/C	37%	rs11206510	1	1	55,268,627	0.05/0.05	0.278	0.89 (0.73-1.09)	1
						rs2479394	0.09	1	55,258,652	0.31/0.33	0.0253	1.11(1.02-1.22)	
PPAP2B	rs17114036	1.16(1.10-1.22)	56,735,409	A/G	55%	rs12070247	0.32	1	56,800,638	0.08/0.08	0.475	1.06 (0.91-1.24)	2
						rs7519268	0.02	1	56,776,398	0.24/0.21	2.59E-03	1.17(1.06-1.30)	
CELSR2-PSRC1-SORT1	rs646776	1.11(1.02-1.22)	109,620,053	T/C	54%	rs646776	1	1	109,620,053	0.06/0.08	5.51E-03	0.78 (0.66-0.92)	1
						rs611917	1	1	109,616,775	0.06/0.08	4.56E-03	0.78(0.65-0.92)	
IL6R	rs4845625	1.06, 1.04	152,688,691	T/C	21%	rs4553185	0.95	1	152,677,579	0.49/0.48	0.0124	1.12 (1.03-1.21)	3
						rs4240872	0.3	1	152,702,819	0.20/0.17	4.26E-04	1.22(1.10-1.36)	
MIA3	rs17465637	1.23 (1.12-1.34)	220,890,152	C/A	100%	rs6683071	0.15	1	220,989,974	0.15/0.16	0.311	1.06 (0.95-1.20)	4
						rs3008598	0.15	1	220,846,571	0.20/0.22	0.244075	1.07(0.96-1.18)	
TTC32-WDR35	rs2123536	1.25 (1.12–1.39)	19,809,058	T/C	100%	rs16986997	0.74	2	19,815,862	0.49/0.49	0.699	0.98 (0.90-1.07)	5
						rs11096616	0.48	2	19,814,440	0.37/0.38	0.442	1.04(0.95-1.13)	
APOB	rs515135	1.07, 1.08	21,139,562	G/A	28%	rs97458	0.65	2	21,181,140	0.16/0.16	0.959	1.00 (0.89-1.12)	3
						rs754523	0.04	2	21,165,196	0.21/0.22	0.156	0.93(0.84-1.02)	
ABCG5-ABCG8	rs6544713	1.06	43,927,385	T/C	18%	rs6544713	1	2	43,927,385	0.00030/0.00016	0.654	0.52 (0.03-8.33)	3
VAMP5-VAMP8-GGCX	rs1561198	1.06, 1.05	85,663,500	A/G	29%	rs10187424	0.95	2	85,647,808	0.37/0.38	0.449	0.97 (0.89-1.05)	3
						rs1254900	0.42	2	85,669,845	0.49/0.47	0.0433	0.91(0.84-0.99)	
ZEB2-AC074093.1	rs2252641	1.06, 1.04	145,517,931	G/A	27%	rs2252641	1	2	145,517,931	0.21/0.21	0.977	1.00 (0.90-1.11)	3
						rs2381686	0.61	2	145,542,524	0.33/0.32	0.189	1.06(0.97-1.16)	
WDR12	rs6725887	1.24(1.12-1.38)	203,454,130	C/T	79%	rs6725887	1	2	203,454,130	0.01/0.01	0.973	1.01 (0.59-1.74)	1
						rs10190966	0.02	2	203,501,061	0.06/0.06	0.443	1.07(0.90-1.28)	
MRAS	rs9818870	1.37 (1.18-1.59)	139,604,812	T/C	100%	rs2306374	1	3	139,602,642	0.08/0.08	0.999	1.00 (0.86-1.16)	6
						rs1679153	0.16	3	139,634,661	0.34/0.36	0.223	0.94(0.87-1.03)	
EDNRA	rs1878406	1.10, 1.06	148,613,114	T/C	42%	rs6842241	1	4	148,620,269	0.31/0.30	0.362	0.96 (0.88-1.05)	3
						rs4835405	0.59	4	148,598,134	0.45/0.44	3.17E-01	1.05(0.96-1.14)	
GUCY1A3	rs1842896	1.23 (1.11–1.37)	156,730,909	T/G	100%	rs1842896	1	4	156,730,909	0.25/0.26	0.323	0.95 (0.86-1.05)	5
						rs10517622	0.79	4	156,719,121	0.22/0.24	0.187	1.07(0.97-1.19)	
5p15.3	rs11748327	0.73（0.56-0.95）	4,082,789	C/T	100%	rs2047074	0.84	5	4,133,229	0.23/0.26	0.0185	0.88 (0.80-0.98)	7
						rs2136174	0.61	5	4,138,896	0.30/0.33	6.09E-03	1.14(1.04-1.25)	
SLC22A4-SLC22A5	rs273909	1.07, 1.09	131,695,252	C/T	14%	rs10071051	0.48	5	131,780,519	0.06/0.06	0.912	0.99 (0.83-1.18)	3
						rs156055	0.49	5	131,528,076	0.05/0.06	0.0716	1.19(0.99-1.42)	

C6orf105	rs6903956	3.07(1.27-7.45)	11,882,569	A/G	100%	rs6903956	1	6	11,882,569	0.08/0.08	0.665	0.97 (0.83-1.12)	8
						rs6929400	0.73	6	11,882,778	0.09/0.09	5.48E-01	1.05(0.91-1.21)	
PHACTR1	rs12526453	1.15(1.07-1.24)	13,035,530	C/G	76%	rs1332841	1	6	12,983,040	0.02/0.02	0.358	1.17 (0.85-1.63)	1
						rs2876303	0.07	6	13,027,853	0.14/0.17	3.49E-04	0.80(0.71-0.90)	
6p21.3	rs3869109	1.16	31,292,175	G/A	94%	rs3869109	1	6	31,292,175	0.50/0.48	0.0499	0.92 (0.84-1.00)	9
						rs3869109	1	6	31,292,175	0.50/0.48	0.0499	0.92 (0.84-1.00)	
C6orf10-BTNL2	rs9268402	1.17 (1.07–1.27)	32,449,331	G/A	96%	rs4424066	0.90	6	32,462,406	0.41/0.43	0.193	0.94 (0.86-1.03)	5
						rs10947262	0.24	6	32,481,290	0.39/0.42	8.84E-04	1.17(1.07-1.27)	
HLA-DQB1	rs11752643	2.08	32,777,351	T/C	100%	rs11752643	1	6	32,777,351	0.08/0.06	9.93E-05	0.71 (0.60-0.84）	10
						rs2647050	0.08	6	32,777,745	0.45/0.49	5.59E-05	0.83(0.77-0.91)	
ANKS1A	rs17609940	1.08(1.05-1.12)	35,142,778	G/C	20%	rs820082	1	6	35,139,419	0.02/0.02	0.975	0.99 (0.72-1.38)	2
						rs2049316	0.02	6	35,117,131	0.49/0.48	0.474	0.97(0.89-1.05)	
KCNK5	rs10947789	1.07, 1.06	39,282,900	T/C	25%	rs2033226	1	6	39,290,379	0.22/0.24	0.0985	1.09 (0.99-1.21)	3
						rs1366323	0.12	6	39,229,806	0.40/0.44	7.67E-04	1.16(1.07-1.27)	
TCF21	rs12190287	1.11(1.08-1.14)	134,256,218	C/G	66%	rs12524865	0.30	6	134,238,367	0.46/0.50	7.17E-04	1.16 (1.07-1.27)	2
						rs1535616	0.29	6	134,212,825	0.46/0.50	4.49E-04	1.17(1.08-1.27)	
MTHFD1L	rs6922269	1.23 (1.13-1.35)	151,294,678	A/G	100%	rs6902664	1	6	151,294,610	0.01/0.01	0.837	1.04 (0.72-1.50)	4
						rs1474787	1	6	151,295,075	0.01/0.01	0.746	0.94(0.65-1.35)	
LPA	rs3798220	1.51(1.33-C1.70)	160,881,127	C/T	100%	rs4708867	0.33	6	160,762,715	0.16/0.15	0.209	1.08 (0.96-1.21)	2
						rs4708867	0.33	6	160,762,715	0.16/0.15	0.209	1.08 (0.96-1.21)	
PLG	rs4252120	1.07, 1.06	161,063,598	T/C	22%	-	-	-	-	0.00/0.00	-	-	3
HDAC9	rs2023938	1.08, 1.07	19,003,300	G/A	16%	-	-	-	-	0.00/0.00	-	-	3
CKD14	rs1859023	1.75(1.45-2.17)	90,078,521	G/A	100%	rs7797824	1	7	90,110,813	0.26/0.26	0.820	1.01 (0.92-1.11)	11
						rs2106730	0.07	7	90,085,244	0.08/0.09	0.0915	1.15(0.98-1.34)	
7q22	rs10953541	1.08(1.05-1.11)	107,031,781	C/T	24%	rs10953541	1	7	107,031,781	0.09/0.09	0.886	1.01 (0.87-1.17)	12
						rs2248465	0.11	7	107,090,864	0.42/0.43	0.492	1.03(0.95-1.12)	
ZC3HC1	rs11556924	1.09(1.07-1.12)	129,450,732	C/T	37%	rs11766629	0.21	7	129,149,901	0.07/0.08	0.197	0.89 (0.76-1.05)	2
						rs4731641	0.02	7	129,424,930	0.31/0.29	0.102	1.08(0.99-1.19)	
LPL	rs264	1.11, 1.05	19,857,460	G/A	42%	rs264	1	8	19,857,460	0.21/0.21	0.892	1.01 (0.91-1.12)	3
						rs10096633	0.21	8	19,875,201	0.11/0.13	0.0288	1.17(1.02-1.33)	
TRIB1	rs2954029	1.06, 1.04	126,560,154	A/T	28%	rs2980869	1	8	126,557,432	0.46/0.48	0.0777	1.08 (1.00-1.18)	3
						rs2980869	1	8	126,557,432	0.46/0.48	0.0777	1.08 (1.00-1.18)	

CDKN2B	rs7865618	1.18(1.09-1.28)	22,021,005	A/G	90%	rs573687	1	9	22,001,642	0.14/0.15	0.0556	1.13 (1.00-1.27)	4,13
						rs1412832	0.47	9	22,067,543	0.28/0.32	5.55E-05	0.82(0.75-0.90)	
9p21.3	rs1333049	1.37 (1.27-1.49)	22,115,503	C/G	100%	rs944797	0.91	9	22,105,286	0.49/0.46	2.37E-05	1.21 (1.11-1.31)	4
						rs4977574	0.91	9	22,088,574	0.49/0.46	7.53E-06	1.22(1.12-1.33)	
ABO	rs579459	1.10(1.06-1.14)	135,143,989	C/T	44%	rs657152	0.37	9	135,129,086	0.48/0.45	2.63E-03	0.87 (0.80-0.95)	2
						rs630014	0.16	9	135,139,543	0.33/0.37	8.59E-04	1.17(1.07-1.28)	
KIAA1462	rs2505083	1.07(1.04-1.09)	30,375,128	C/T	31%	rs2505083	1	10	30,375,128	0.18/0.19	0.531	0.96 (0.86-1.08)	12
						rs10826758	0.26	10	30,407,329	0.31/0.33	0.078541	1.09(0.99-1.19)	
CXCL12	rs1746048	1.22(1.10-1.34)	44,095,830	C/T	99%	rs1746048	1	10	44,095,830	0.29/0.30	0.516	1.03 (0.94-1.13)	1
						rs1704224	0.04	10	43,997,206	0.02/0.03	0.0579	1.33(1.00-1.77)	
LIPA	rs1412444	1.09(1.07-1.12)	90,992,907	T/C	51%	rs1412444	1	10	90,992,907	0.24/0.22	0.153	0.93 (0.84-1.02)	12
						rs2243547	0.69	10	91,000,459	0.26/0.23	0.012	1.14(1.03-1.25)	
CNNM2	rs12413409	1.13(1.07-1.19)	104,709,086	G/A	53%	rs12413409	1	10	104,709,086	0.24/0.26	0.0612	1.10 (1.00-1.21)	2
						rs3824754	0.82	10	104,604,340	0.29/0.31	0.0298	1.11(1.01-1.22)	
PDGFD	rs974819	1.07(1.04-1.09)	103,165,777	T/C	36%	rs974819	1	11	103,165,777	0.37/0.39	0.122	0.93 (0.85-1.02)	12
						rs17405661	0.12	11	103,266,588	0.18/0.16	0.0123	0.86(0.77-0.96)	
11q23.3	rs964184	1.13(1.09-1.18)	116,154,127	G/C	66%	rs180326	0.93	11	116,129,913	0.29/0.26	0.0151	1.13 (1.03-1.24)	2
						rs6589567	0.31	11	116,175,886	0.40/0.37	4.13E-03	0.88(0.80-0.96)	
ATP2B1	rs7136259	1.21 (1.11–1.33)	88,605,319	T/C	99%	rs1401982	1	12	88,513,730	0.40/0.38	0.189	1.06 (0.97-1.16)	5
						rs10858918	0.64	12	88,620,476	0.27/0.26	0.089	0.92(0.83-1.01)	
ALDH2	rs671	1.69	110,726,149	A/G	100%	rs3782886	0.93	12	110,594,872	0.34/0.26	1.14E-14	1.46 (1.33-1.60)	10
						rs3782886	0.93	12	110,594,872	0.34/0.26	1.14E-14	1.46 (1.33-1.60)	
FLT1	rs9319428	1.06, 1.05	27,871,621	A/G	26%	rs9319428	1	13	27,871,621	0.38/0.38	0.746	1.02 (0.93-1.11)	3
						rs9319428	1	13	27,871,621	0.38/0.38	0.746	1.02 (0.93-1.11)	
COL4A2	rs4773144	1.08（1.05-1.12)	109,758,713	G/A	44%	rs7317784	0.17	13	109,753,075	0.31/0.34	9.92E-04	0.86 (0.78-0.94)	2
HHIPL1	rs2895811	1.09(1.06-1.13)	99,203,695	C/T	49%	rs11844169	0.36	14	99,203,151	0.44/0.43	0.746	0.99 (0.91-1.07)	2
						rs12435918	0.31	14	99,240,648	0.42/0.41	0.163	1.07(0.98-1.16)	
SMAD3	rs17228212	1.19 (1.09-1.3)	65,245,693	C/T	86%	-	-	-	-	0.00/0.00	-	-	4
ADAMTS7	rs3825807	1.07(1.04-1.10)	76,876,166	A/G	30%	rs11638372	0.10	15	76,770,614	0.02/0.02	0.885	1.02 (0.77-1.35)	2
						rs8041377	0.02	15	76,773,860	0.12/0.10	0.0372	1.16(1.02-1.32)	
FURIN-FES	rs17514846	1.07, 1.05	89,217,554	A/C	36%	rs17514846	1	15	89,217,554	0.16/0.14	0.138	0.91 (0.81-1.02)	3
						rs3759929	1	15	89,211,013	0.16/0.15	0.0655	0.89(0.80-1.00)	

SMG6	rs216172	1.08(1.05-1.12)	2,073,254	C/G	41%	rs11655813	1	17	2,065,851	0.23/0.22	0.541	0.97 (0.87-1.07)	2
						rs8067305	0.35	17	1,922,407	0.28/0.27	0.171	0.93(0.85-1.03)	
17p11.2	rs12936587	1.08(1.05-1.11)	17,484,447	G/A	39%	rs4925094	0.60	17	17,509,737	0.09/0.08	0.918	0.99 (0.86-1.15)	2
						rs11871738	0.35	17	17,465,968	0.06/0.06	0.139	0.87(0.73-1.04)	
UBE2Z	rs46522	1.07(1.04-1.10)	44,343,596	T/C	36%	rs962272	1	17	44,333,282	0.27/0.28	0.211	1.06 (0.97-1.17)	2
						rs3809770	0.84	17	44,402,595	0.24/0.25	0.157	0.93(0.84-1.02)	
LDLR	rs1122608	1.18(1.09-1.28)	11,024,601	G/T	80%	rs3786725	1	19	11,027,827	0.11/0.12	0.317	1.07 (0.94-1.22)	1
						rs12610607	0.19	19	10,945,994	0.19/0.21	0.0408	0.89(0.80-0.99)	
SLC5A3-MRPS6-KCNE2	rs9982601	1.20(1.07-1.33)	34,520,998	T/C	80%	-	-			0.00/0.00	-	-	1

The r^2 shows the coefficient between SNP on Illumina Human610-Quad BeadChip and the previously reported SNP based on the Phase II of HapMap JPT data.
Chromosomal location was based on Genome Build 36.3.

Two proxy SNPs are provided for each gene or locus. The upper one is a SNP showing the highest r^2 with the reported SNP for this locus,
and the lower one is a SNP with the lowest P within the LD block. When these 2 proxy SNPs are identical with each other, the upper one is repeated in the lower lane.

Table S2 Summary results for replication study 1.

SNP	Chr chrloc	Nearest gene	allele 1/2	study	maf_case	maf_ctrl	*P*	OR (95%CI)	P_{het}
rs11260745	1 16,338,590	*EPHA2*	T/C	GWAS	0.09	0.12	7.42E-05	0.74 (0.65-0.86)	
				Replication 1	0.11	0.11	7.83E-01	1.01 (0.95-1.07)	
				ALL			2.80E-01	0.97 (0.92-1.02)	1.37E-04
rs10798939	1 33,582,024	*PHC2*	A/G	GWAS	0.12	0.15	5.06E-05	0.76 (0.67-0.86)	
				Replication 1	0.14	0.14	1.38E-01	0.96 (0.92-1.01)	
				ALL			3.34E-03	0.93 (0.89-0.98)	1.35E-03
rs9645433	1 41,700,293	*EDN2*	T/C	GWAS	0.04	0.02	8.78E-05	1.64 (1.29-2.09)	
				Replication 1	0.03	0.03	3.92E-01	1.05 (0.94-1.16)	
				ALL			1.96E-02	1.12 (1.02-1.23)	1.20E-03
rs17021749	1 212,217,105	*PROX1*	A/G	GWAS	0.18	0.15	8.30E-05	0.79 (0.70-0.88)	
				Replication 1	0.16	0.16	4.74E-01	0.98 (0.94-1.03)	
				ALL			2.64E-02	0.95 (0.91-0.99)	8.17E-04
rs2467473	3 14,873,140	*FGD5*	A/C	GWAS	0.47	0.43	3.15E-05	1.21 (1.11-1.31)	
				Replication 1	0.46	0.44	3.80E-04	1.06 (1.03-1.10)	
				ALL			4.53E-06	1.08 (1.04-1.11)	7.55E-03
rs13070927	3 14,894,650	*FGD5*	T/G	GWAS	0.19	0.23	4.65E-05	1.25 (1.13-1.39)	
				Replication 1	0.21	0.22	5.27E-03	1.06 (1.02-1.11)	
				ALL			6.65E-05	1.08 (1.04-1.13)	4.96E-03
rs9879150	3 16,945,785	*PLCL2*	T/C	GWAS	0.49	0.44	5.92E-05	0.84 (0.77-0.91)	
				Replication 1	0.47	0.45	1.52E-02	0.96 (0.93-0.99)	
				ALL			2.85E-04	0.94 (0.91-0.97)	4.11E-03
rs4618210	3 17,099,388	*PLCL2*	T/C	GWAS	0.45	0.40	6.78E-05	0.84 (0.77-0.91)	
				Replication 1	0.44	0.42	5.18E-07	0.91 (0.88-0.95)	
				ALL			1.43E-10	0.90 (0.87-0.93)	7.96E-02
rs4684309	3 17,122,967	*PLCL2*	A/G	GWAS	0.46	0.50	4.80E-05	0.83 (0.77-0.91)	
				Replication 1	0.48	0.49	1.34E-02	0.96 (0.92-0.99)	
				ALL			2.75E-04	0.94 (0.91-0.97)	3.38E-03
rs1587425	3 25,146,992	*LOC100130354*	T/C	GWAS	0.28	0.32	7.12E-05	1.21 (1.11-1.33)	
				Replication 1	0.31	0.32	1.06E-01	1.03 (0.99-1.07)	
				ALL			3.79E-03	1.05 (1.02-1.09)	1.77E-03
rs1543991	6 111,038,725	*CDC2L6*	T/C	GWAS	0.39	0.35	9.15E-05	1.20 (1.10-1.31)	
				Replication 1	0.37	0.36	2.92E-01	1.02 (0.98-1.06)	
				ALL			1.44E-02	1.04 (1.01-1.08)	1.23E-03
rs2211704	8 37,501,134	*LOC100128034*	A/G	GWAS	0.42	0.47	2.84E-05	0.83 (0.76-0.90)	
				Replication 1	0.45	0.45	5.44E-01	0.99 (0.96-1.02)	
				ALL			4.22E-02	0.97 (0.94-1.00)	2.18E-04
rs10982874	9 117,488,028	*DEC1*	T/C	GWAS	0.22	0.18	3.26E-05	0.79 (0.71-0.88)	
				Replication 1	0.20	0.20	1.47E-01	0.97 (0.93-1.01)	
				ALL			4.96E-03	0.94 (0.91-0.98)	8.08E-04
rs9415880	10 68,871,540	*CTNNA3*	T/C	GWAS	0.43	0.38	1.04E-05	0.82 (0.75-0.89)	
				Replication 1	0.39	0.39	9.60E-01	1.00 (0.96-1.04)	
				ALL			1.05E-01	0.97 (0.94-1.01)	4.29E-05
rs652054	11 74,953,180	*SERPINH1*	T/G	GWAS	0.26	0.23	8.52E-05	0.82 (0.74-0.90)	
				Replication 1	0.24	0.23	2.72E-02	0.96 (0.92-0.99)	
				ALL			1.04E-03	0.94 (0.90-0.97)	3.58E-03
rs1818702	12 102,047,685	*LOC644171*	T/C	GWAS	0.41	0.36	3.87E-06	0.81 (0.74-0.88)	
				Replication 1	0.37	0.37	6.54E-01	0.99 (0.96-1.03)	
				ALL			2.82E-02	0.96 (0.93-1.00)	4.31E-05
rs1314917	14 67,781,284	*RAD51L1*	A/C	GWAS	0.41	0.45	6.45E-05	1.20 (1.10-1.30)	
				Replication 1	0.43	0.44	8.14E-02	1.03 (1.00-1.07)	
				ALL			2.64E-03	1.05 (1.02-1.09)	1.92E-03
rs1957572	14 67,806,224	*RAD51L1*	T/C	GWAS	0.50	0.45	4.55E-05	1.20 (1.10-1.30)	
				Replication 1	0.47	0.46	5.51E-01	1.01 (0.98-1.05)	
				ALL			4.23E-02	1.03 (1.00-1.07)	3.52E-04
rs2778936	14 88,042,056	*PTPN21*	A/G	GWAS	0.40	0.35	6.69E-05	1.20 (1.10-1.31)	
				Replication 1	0.37	0.36	1.40E-01	1.03 (0.99-1.06)	
				ALL			2.98E-03	1.05 (1.02-1.09)	1.89E-03
rs7172432	15 60,183,681	*LOC100129972*	A/G	GWAS	0.40	0.44	3.62E-05	0.83 (0.76-0.90)	
				Replication 1	0.43	0.42	6.25E-02	1.03 (1.00-1.07)	

				ALL			9.59E-01	1.00 (0.97-1.03)	8.83E-06
rs1370176	15	*LOC100129972*	A/G	GWAS	0.31	0.35	4.96E-05	1.22 (1.11-1.33)	
	60,184,526			Replication 1	0.34	0.33	1.24E-01	0.97 (0.94-1.01)	
				ALL			9.55E-01	1.00 (0.97-1.03)	1.26E-05
rs4775468	15	*LOC100129972*	T/C	GWAS	0.17	0.20	8.15E-05	1.26 (1.13-1.41)	
	60,189,218			Replication 1	0.19	0.19	5.97E-01	0.99 (0.95-1.03)	
				ALL			3.25E-01	1.02 (0.98-1.06)	1.27E-04
rs2603229	15	*LYSMD4*	T/C	GWAS	0.31	0.35	8.44E-05	1.21 (1.10-1.32)	
	98,081,022			Replication 1	0.34	0.33	6.31E-01	0.99 (0.96-1.03)	
				ALL			3.57E-01	1.02 (0.98-1.05)	1.16E-04
rs7200879	16	*FBXL19*	A/G	GWAS	0.10	0.07	3.89E-05	1.39 (1.19-1.61)	
	30,855,073			Replication 1	0.09	0.09	5.00E-01	1.02 (0.96-1.08)	
				ALL			3.77E-02	1.06 (1.00-1.12)	3.32E-04
rs7186131	16	*IRX6*	T/C	GWAS	0.38	0.34	2.40E-05	0.82 (0.75-0.90)	
	53,769,051			Replication 1	0.36	0.36	3.25E-01	0.98 (0.95-1.02)	
				ALL			1.03E-02	0.96 (0.93-0.99)	4.25E-04
rs9936363	16	*CDH13*	A/G	GWAS	0.03	0.05	3.72E-05	0.60 (0.47-0.76)	
	81,264,849			Replication 1	0.04	0.04	6.57E-01	1.02 (0.94-1.11)	
				ALL			3.58E-01	0.96 (0.89-1.04)	6.27E-05
rs4941178	18	*BCL2*	A/G	GWAS	0.17	0.21	4.63E-05	1.26 (1.13-1.41)	
	58,909,266			Replication 1	0.19	0.19	7.99E-01	1.01 (0.96-1.05)	
				ALL			6.00E-02	1.04 (1.00-1.08)	2.83E-04
rs3803915	19	*DOT1L*	A/C	GWAS	0.22	0.19	5.59E-05	0.80 (0.72-0.89)	
	2,111,529			Replication 1	0.21	0.19	6.90E-06	0.91 (0.87-0.95)	
				ALL			3.79E-08	0.89 (0.86-0.93)	3.18E-02
rs2269881	19	*DOT1L*	T/C	GWAS	0.45	0.41	3.40E-05	0.83 (0.76-0.90)	
	2,146,799			Replication 1	0.44	0.43	3.25E-03	0.95 (0.92-0.98)	
				ALL			2.80E-05	0.93 (0.90-0.96)	5.02E-03
rs2195956	19	*ZNF536*	T/C	GWAS	0.02	0.01	1.52E-05	0.44 (0.31-0.64)	
	35,806,921			Replication 1	0.01	0.01	9.13E-01	1.01 (0.85-1.20)	
				ALL			9.63E-02	0.87 (0.75-1.02)	1.10E-04

The *P* values of GWAS were the genomic-control *P* values (P_{GC}). The combined *P* values were calculated by the inverse variance method.

The *P* values of heterogeneities (P_{het}) across the population were estimated formally using the Breslow-Day test.

Chr, chromosome; chrloc, chromosome location based on Genome Build 36.3; maf, minor allele frequency;

OR, odds ratio which was calculated using allele 1 as the reference ; CI, confidence interval which was calculated using allele 1 as the refere

Table S3 Distributions of minor allele frequencies by disease status in control sets

GWAS control samples

disease status	n(%)	rs3803915 AA	AC	CC	A	C	maf	rs4618210 AA	AG	GG	A	G	maf
Healthy volunteer	906(26.7)	34	267	605	335	1477	0.185	143	447	316	733	1079	0.405
Hepatic cancer	181(5.3)	12	45	124	69	293	0.191	35	84	62	154	208	0.425
Cervical cancer	174(5.1)	6	57	111	69	279	0.198	35	74	65	144	204	0.414
Chronic hepatitis B	178(5.2)	6	48	124	60	296	0.169	31	75	71	137	217	0.387
Esophageal cancer	182(5.4)	5	52	125	62	302	0.170	29	92	61	150	214	0.412
Hematopoietic tumor	183(5.4)	5	52	126	62	304	0.169	34	80	69	148	218	0.404
Uterine cancer	180(5.3)	5	53	122	63	297	0.175	24	87	69	135	225	0.375
Ovarian cancer	185(5.4)	5	55	125	65	305	0.176	26	86	73	138	232	0.373
Tuberculosis	182(5.4)	2	57	123	61	303	0.168	35	88	59	158	206	0.434
Keloid	184(5.4)	9	55	120	73	295	0.198	23	97	64	143	225	0.389
Eruption	453(13.3)	14	147	292	175	731	0.193	92	200	160	384	520	0.425
Fever convulsion	42(1.2)	5	14	23	24	60	0.286	7	18	17	32	52	0.381
GB cancer	184(5.4)	8	46	130	62	306	0.168	34	82	68	150	218	0.408
Pancreatic cancer	183(5.4)	6	50	127	62	304	0.169	31	89	63	151	215	0.413
		X-squared = 11.0265, df = 12, p-value = 0.5266						X-squared = 9.0882, df = 12, p-value = 0.6954					

Replication 1 control samples

disease status	n(%)	rs3803915 AA	AC	CC	A	C	maf	rs4618210 AA	AG	GG	A	G	maf
Colorectal cancer	1521(5.7)	52	482	987	586	2456	0.193	246	726	549	1218	1824	0.400
Breast cancer	1577(5.9)	52	495	1030	599	2555	0.190	256	782	539	1294	1860	0.410
Prostate cancer	1534(5.8)	68	456	1010	592	2476	0.193	269	734	531	1272	1796	0.415
Lung cancer	1533(5.8)	59	467	1007	585	2481	0.191	283	752	498	1318	1748	0.430
Stomach cancer	1501(5.6)	63	454	984	580	2422	0.193	243	737	521	1223	1779	0.407
Diabetes Mellitus	2403(9.0)	95	753	1555	943	3863	0.196	449	1164	790	2062	2744	0.429
Peripheral artery disease	464(1.7)	21	143	300	185	743	0.199	82	200	182	364	564	0.392
Arrhythmia(arterial fibrillation)	662(2.5)	28	209	425	265	1059	0.200	124	314	224	562	762	0.424
Cerebral infarction	1437(5.4)	53	430	954	536	2338	0.186	273	706	458	1252	1622	0.436
GB cancer	128(0.5)	3	36	89	42	214	0.164	20	60	48	100	156	0.391
Pancreatic cancer	138(0.5)	4	39	95	47	229	0.170	27	72	39	126	150	0.457
Anticancer drugs side effect	3309(12.4)	109	1047	2153	1265	5353	0.191	571	1618	1119	2760	3856	0.417
Eruption	92(0.3)	2	22	68	26	158	0.141	19	39	34	77	107	0.418
Rheumatoid Arthritis	2267(8.5)	78	723	1466	879	3655	0.194	409	1078	779	1896	2636	0.418
Warfarin effect	1105(4.1)	46	357	702	449	1761	0.203	205	534	364	944	1262	0.428
Amyotrophic lateral sclerosis	709(2.7)	29	225	455	283	1135	0.200	140	336	233	616	802	0.434
Hepatic cancer	1429(5.4)	61	426	942	548	2310	0.192	244	710	474	1198	1658	0.419
Liver cirrhosis	1642(6.2)	73	520	1049	666	2618	0.203	259	821	562	1339	1945	0.408
Osteoporosis	1605(6.0)	74	482	1049	630	2580	0.196	287	769	549	1343	1867	0.418
Myoma	1603(6.0)	51	506	1046	608	2598	0.190	281	770	552	1332	1874	0.415
		X-squared = 13.2715, df = 20, p-value = 0.8654						X-squared = 23.3681, df = 20, p-value = 0.2711					

Replication 2 control samples

disease status	n(%)	rs3803915 AA	AC	CC	A	C	maf	rs4618210 AA	AG	GG	A	G	maf
Healthy volunteer	932(54.0)	30	288	614	348	1516	0.187	193	428	311	814	1050	0.437
Cerebral aneurysm	49(2.8)	1	11	37	13	85	0.133	9	25	15	43	55	0.439
Esophageal cancer	320(18.6)	10	92	218	112	528	0.175	64	149	107	277	363	0.433
Uterine cancer	271(15.7)	9	86	176	104	438	0.192	44	128	99	216	326	0.399
COPD	65(3.8)	2	19	44	23	107	0.177	15	27	23	57	73	0.438
Glaucoma	88(5.1)	3	27	58	33	143	0.188	20	32	36	72	104	0.409
		X-squared = 2.4278, df = 5, p-value = 0.7873						X-squared = 1.8743, df = 5, p-value = 0.8662					

All healthy samples

	n	rs3803915 AA	AC	CC	A	C	maf	rs4618210 AA	AG	GG	A	G	maf
in GWAS	906	34	267	605	335	1477	0.185	143	447	316	733	1079	0.405
in Replication 2	932	30	288	614	348	1516	0.187	193	428	311	814	1050	0.437
total	1838	64	555	1219	683	2993	0.186	336	875	627	1547	2129	0.421

Table S4 266 Gene list used in the network analysis.

Gene symbol	Gene name	Disease/Trait	Data source	Disease/Trait reported by GWAS	Disease/Trait annotated by HGMD	Location	Type
ABCA1	ATP-binding cassette, sub-family A (ABC1), member 1	coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease, coronary heart disease	plasma membrane	transporter
ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transporter
ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	ion channel
ABCG1	ATP-binding cassette, sub-family G (WHITE), member 1	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transporter
ABCG8	ATP-binding cassette, sub-family G (WHITE), member 8	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transporter
ABO	ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase)	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	enzyme
ACE	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, coronary heart disease, myocardial infarction	plasma membrane	peptidase
ACTA2	actin, alpha 2, smooth muscle, aorta	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	other
ADAMTS7	ADAM metallopeptidase with thrombospondin type 1 motif, 7	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	peptidase
ADCY8	adenylate cyclase 8 (brain)	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	enzyme
ADD1	adducin 1 (alpha)	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	other
ADIPOQ	adiponectin, C1Q and collagen domain containing	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, coronary heart disease, myocardial infarction	extracellular space	other
ADORA3	adenosine A3 receptor	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	G-protein coupled receptor
ADRB2	adrenoceptor beta 2, surface	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	G-protein coupled receptor
ADTRP	androgen-dependent TFPI-regulating protein	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	other
AGER	advanced glycosylation end product-specific receptor	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	transmembrane receptor
AGT	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	growth factor
ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)	coronary heart disease, coronary artery disease, acute coronary syndrome	GWAS, HGMD	coronary heart disease	coronary artery disease, acute coronary syndrome	cytoplasm	enzyme
ALOX15	arachidonate 15-lipoxygenase	coronary_artery_disease, coronary heart disease	HGMD	-	coronary artery disease, coronary heart disease	cytoplasm	enzyme
ALOX5	arachidonate 5-lipoxygenase	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
AMPD1	adenosine monophosphate deaminase 1	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
ANKS1A	ankyrin repeat and sterile alpha motif domain containing 1A	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
ANXA5	annexin A5	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	other
AP3D1	adaptor-related protein complex 3, delta 1 subunit	myocardial infarction	novel	myocardial infarction	-	cytoplasm	transporter
APOA1	apolipoprotein A-I	coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease	extracellular space	transporter
APOA4	apolipoprotein A-IV	coronary heart disease	GWAS, HGMD	coronary heart disease	coronary heart disease	extracellular space	transporter
APOA5	apolipoprotein A-V	myocardial infarction, coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease, myocardial infarction	extracellular space	other
APOB	apolipoprotein B (including Ag(x) antigen)	coronary_artery_disease, coronary heart disease	HGMD	-	coronary artery disease, coronary heart disease	extracellular space	transporter
APOC3	apolipoprotein C-III	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	transporter
APOE	apolipoprotein E	coronary heart disease	HGMD	-	coronary heart disease	extracellular space	transporter
APOM	apolipoprotein M	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transporter
ARG1	arginase, liver	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	enzyme
ARHGAP9	Rho GTPase activating protein 9	angina	HGMD	-	angina	cytoplasm	other
ATP2B1	ATPase, Ca++ transporting, plasma membrane 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transporter
ATP5G1	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C1 (subunit 9)	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	transporter
BHMT	betaine--homocysteine S-methyltransferase	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
BRAP	BRCA1 associated protein	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	enzyme
BTN2A1	butyrophilin, subfamily 2, member A1	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	other
BTNL2	butyrophilin-like 2 (MHC class II associated)	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transmembrane receptor
C12orf43	chromosome 12 open reading frame 43	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
C6orf10	chromosome 6 open reading frame 10	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
CBS	cystathionine-beta-synthase	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
CCL2	chemokine (C-C motif) ligand 2	angina	HGMD	-	angina	extracellular space	cytokine
CCR5	chemokine (C-C motif) receptor 5 (gene/pseudogene)	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	G-protein coupled receptor
CD14	CD14 molecule	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	transmembrane receptor
CD36	CD36 molecule (thrombospondin receptor)	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transmembrane receptor
CD40	CD40 molecule, TNF receptor superfamily member 5	acute coronary syndrome	HGMD	-	acute coronary syndrome	plasma membrane	transmembrane receptor
CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1)	myocardial infarction	HGMD	-	myocardial infarction	nucleus	kinase
CDKN2A	cyclin-dependent kinase inhibitor 2A	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
CDKN2B	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
CDKN2B-AS1	CDKN2B antisense RNA 1	coronary artery disease	HGMD	-	coronary artery disease	unknown	other
CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	G-protein coupled receptor
CETP	cholesteryl ester transfer protein, plasma	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	enzyme
CFH	complement factor H	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	other
CLCN1	chloride channel, voltage-sensitive 1	angina	HGMD	-	angina	plasma membrane	ion channel
CLU	clusterin	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	other
CNNM2	cyclin M2	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other

COL4A1	collagen, type IV, alpha 1	myocardial infarction, coronary heart disease	GWAS, HGMD	coronary heart disease	myocardial infarction	extracellular space	other
COL4A2	collagen, type IV, alpha 2	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	other
CPB2	carboxypeptidase B2 (plasma)	myocardial infarction, acute coronary syndrome	HGMD	-	acute coronary syndrome, myocardial infarction	extracellular space	peptidase
CRP	C-reactive protein, pentraxin-related	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	extracellular space	other
CSMD1	CUB and Sushi multiple domains 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
CX3CR1	chemokine (C-X3-C motif) receptor 1	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	G-protein coupled receptor
CXCL12	chemokine (C-X-C motif) ligand 12	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	cytokine
CXCL16	chemokine (C-X-C motif) ligand 16	coronary heart disease	HGMD	-	coronary heart disease	extracellular space	cytokine
CYBA	cytochrome b-245, alpha polypeptide	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	cytoplasm	enzyme
CYP17A1	cytochrome P450, family 17, subfamily A, polypeptide 1	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
CYP2C19	cytochrome P450, family 2, subfamily C, polypeptide 19	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
CYP2C8	cytochrome P450, family 2, subfamily C, polypeptide 8	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	enzyme
CYP2J2	cytochrome P450, family 2, subfamily J, polypeptide 2	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
CYP3A4	cytochrome P450, family 3, subfamily A, polypeptide 4	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	enzyme
DNASE1	deoxyribonuclease I	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	enzyme
DNM2	dynamin 2	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	enzyme
DOCK6	dedicator of cytokinesis 6	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
DOT1L	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	myocardial infarction	novel	myocardial infarction	-	nucleus	phosphatase
DTNB	dystrobrevin, beta	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
EDC4	enhancer of mRNA decapping 4	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
EDN1	endothelin 1	angina	HGMD	-	angina	extracellular space	cytokine
EDNRA	endothelin receptor type A	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transmembrane receptor
EGFR	epidermal growth factor receptor	acute coronary syndrome	HGMD	-	acute coronary syndrome	plasma membrane	kinase
ELANE	elastase, neutrophil expressed	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	peptidase
ENO1	enolase 1, (alpha)	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	transcription regulator
EPHX2	epoxide hydrolase 2, cytoplasmic	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	enzyme
F12	coagulation factor XII (Hageman factor)	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	peptidase
F13A1	coagulation factor XIII, A1 polypeptide	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	extracellular space	enzyme
F13B	coagulation factor XIII, B polypeptide	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	cytoplasm	enzyme
F2R	coagulation factor II (thrombin) receptor	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	G-protein coupled receptor
F5	coagulation factor V (proaccelerin, labile factor)	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	enzyme
F7	coagulation factor VII (serum prothrombin conversion accelerator)	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	plasma membrane	peptidase
FABP2	fatty acid binding protein 2, intestinal	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	transporter
FAS	Fas (TNF receptor superfamily, member 6)	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transmembrane receptor
FCAR	Fc fragment of IgA, receptor for	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	other
FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32)	acute coronary syndrome, coronary heart disease	HGMD	-	acute coronary syndrome, coronary heart disease	plasma membrane	transmembrane receptor
FGB	fibrinogen beta chain	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	other
FGFR4	fibroblast growth factor receptor 4	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	kinase
FHL5	four and a half LIM domains 5	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
FN1	fibronectin 1	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	enzyme
FNDC1	fibronectin type III domain containing 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
FOXC2	forkhead box C2 (MFH-1, mesenchyme forkhead 1)	myocardial infarction	HGMD	-	myocardial infarction	nucleus	transcription regulator
FXN	frataxin	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	kinase
GAS6	growth arrest-specific 6	acute coronary syndrome	HGMD	-	acute coronary syndrome	extracellular space	growth factor
GATA2	GATA binding protein 2	coronary artery disease	HGMD	-	coronary artery disease	nucleus	transcription regulator
GCLC	glutamate-cysteine ligase, catalytic subunit	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	enzyme
GCLM	glutamate-cysteine ligase, modifier subunit	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	enzyme
GCOM1	GRINL1A complex locus 1	coronary heart disease	GWAS	coronary heart disease	-	nucleus	other
GHRL	ghrelin/obestatin prepropeptide	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	growth factor
GIP	gastric inhibitory polypeptide	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	other
GJA4	gap junction protein, alpha 4, 37kDa	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	transporter
GP1BA	glycoprotein Ib (platelet), alpha polypeptide	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	other
GP6	glycoprotein VI (platelet)	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transmembrane receptor
GPX1	glutathione peroxidase 1	coronary_artery_disease, coronary heart disease	HGMD	-	coronary artery disease, coronary heart disease	cytoplasm	enzyme
GUCY1A3	guanylate cyclase 1, soluble, alpha 3	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
HCG27	HLA complex group 27 (non-protein coding)	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
HECTD4	HECT domain containing E3 ubiquitin protein ligase 4	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
HFE	hemochromatosis	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	transmembrane receptor
HFE2	hemochromatosis type 2 (juvenile)	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
HHIPL1	HHIP-like 1	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
HLA-C	major histocompatibility complex, class I, C	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other

HLA-DPB2	major histocompatibility complex, class II, DP beta 2 (pseudogene)	myocardial infarction	HGMD	-	myocardial infarction	unknown	other
HLA-DQB	major histocompatibility complex, class II, DQ beta 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
HLA-DRB1	major histocompatibility complex, class II, DR beta 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transmembrane receptor
HLA-DRB5	major histocompatibility complex, class II, DR beta 5	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transmembrane receptor
HNF1A	HNF1 homeobox A	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
HSP90B1	heat shock protein 90kDa beta (Grp94), member 1	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
HSPA1A	heat shock 70kDa protein 1A	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	other
HSPA8	heat shock 70kDa protein 8	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	enzyme
ICAM1	intercellular adhesion molecule 1	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	transmembrane receptor
IGF1	insulin-like growth factor 1 (somatomedin C)	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	growth factor
IGSF5	immunoglobulin superfamily, member 5	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
IL1B	interleukin 1, beta	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	cytokine
IL5	interleukin 5 (colony-stimulating factor, eosinophil)	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	cytokine
IL6	interleukin 6 (interferon, beta 2)	acute coronary syndrome, coronary heart disease	HGMD	-	acute coronary syndrome, coronary heart disease	extracellular space	cytokine
IRF5	interferon regulatory factor 5	acute coronary syndrome	HGMD	-	acute coronary syndrome	nucleus	transcription regulator
ITGA2	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	myocardial infarction, coronary artery disease, angina	HGMD	-	coronary artery disease, myocardial infarction, angina	plasma membrane	other
ITIH3	inter-alpha-trypsin inhibitor heavy chain 3	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
KCNE2	potassium voltage-gated channel, Isk-related family, member 2	myocardial infarction	GWAS	myocardial infarction (early onset)	-	plasma membrane	ion channel
KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	ion channel
KCNJ11	potassium inwardly-rectifying channel, subfamily J, member 11	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	plasma membrane	ion channel
KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	kinase
KIAA1462	KIAA1462	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	other
KIF6	kinesin family member 6	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	nucleus	other
KL	klotho	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	enzyme
KLHL29	kelch-like 29 (Drosophila)	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
LAMC2	laminin, gamma 2	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	other
LCAT	lecithin-cholesterol acyltransferase	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	enzyme
LDLR	low density lipoprotein receptor	coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease	plasma membrane	transporter
LGALS2	lectin, galactoside-binding, soluble, 2	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	other
LIPA	lipase A, lysosomal acid, cholesterol esterase	coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease	cytoplasm	enzyme
LIPC	lipase, hepatic	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	enzyme
LIPG	lipase, endothelial	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	enzyme
LMNA	lamin A/C	coronary artery disease	HGMD	-	coronary artery disease	nucleus	other
LPA	lipoprotein, Lp(a)	coronary heart disease, coronary artery disease	GWAS, HGMD	coronary heart disease	coronary artery disease	extracellular space	other
LPAL2	lipoprotein, Lp(a)-like 2, pseudogene	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
LPL	lipoprotein lipase	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	cytoplasm	enzyme
LRP6	low density lipoprotein receptor-related protein 6	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transmembrane receptor
LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transmembrane receptor
LTA	lymphotoxin alpha (TNF superfamily, member 1)	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	cytokine
MEF2A	myocyte enhancer factor 2A	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	nucleus	transcription regulator
MIA3	melanoma inhibitory activity family, member 3	coronary heart disease	GWAS, HGMD	coronary heart disease	myocardial infarction	cytoplasm	other
MIAT	myocardial infarction associated transcript (non-protein coding)	myocardial infarction	HGMD	-	myocardial infarction	unknown	other
MIR196A2	microRNA 196b	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	microRNA
MIR499	microRNA 499b	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	microRNA
MKL1	megakaryoblastic leukemia (translocation) 1	coronary artery disease	HGMD	-	coronary artery disease	nucleus	transcription regulator
MLXIPL	MLX interacting protein-like	coronary artery disease	HGMD	-	coronary artery disease	nucleus	transcription regulator
MMP3	matrix metallopeptidase 3 (stromelysin 1, progelatinase)	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	peptidase
MMP9	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	extracellular space	peptidase
MORF4L1	mortality factor 4 like 1	coronary heart disease	GWAS	coronary heart disease	-	nucleus	other
MRAS	muscle RAS oncogene homolog	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	enzyme
MRPS6	mitochondrial ribosomal protein S6	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
MTAP	methylthioadenosine phosphorylase	coronary heart disease	GWAS	coronary heart disease	-	nucleus	enzyme
MTHFD1L	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
MTHFR	methylenetetrahydrofolate reductase (NAD(P)H)	coronary_artery_disease, coronary heart disease	HGMD	-	coronary artery disease, coronary heart disease	cytoplasm	enzyme
MTR	5-methyltetrahydrofolate-homocysteine methyltransferase	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	enzyme
MTRR	5-methyltetrahydrofolate-homocysteine methyltransferase reductase	coronary_artery_disease, coronary heart disease	HGMD	-	coronary artery disease, coronary heart disease	cytoplasm	enzyme
MYH15	myosin, heavy chain 15	coronary heart disease	HGMD	-	coronary heart disease	extracellular space	other
NAMPT	nicotinamide phosphoribosyltransferase	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	cytokine
NFKB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	nucleus	transcription regulator

NOD2	nucleotide-binding oligomerization domain containing 2	coronary artery disease myocardial infarction,	HGMD	-	coronary artery disease coronary artery disease, myocardial	cytoplasm	other
NOS3	nitric oxide synthase 3 (endothelial cell)	coronary artery disease	HGMD	-	infarction	cytoplasm	enzyme
NPY	neuropeptide Y	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	other
NR1H3	nuclear receptor subfamily 1, group H, member 3	coronary heart disease	HGMD	-	coronary heart disease	nucleus	ligand-dependent nuclear receptor
NR3C2	nuclear receptor subfamily 3, group C, member 2	myocardial infarction	HGMD	-	myocardial infarction	nucleus	ligand-dependent nuclear receptor
NT5C2	5'-nucleotidase, cytosolic II	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	phosphatase
OAZ1	ornithine decarboxylase antizyme 1	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	enzyme
OGG1	8-oxoguanine DNA glycosylase	coronary artery disease	HGMD	-	coronary artery disease	nucleus	enzyme
OLR1	oxidized low density lipoprotein (lectin-like) receptor 1	myocardial infarction, coronary artery disease, acute coronary syndrome	HGMD	-	coronary artery disease, acute coronary syndrome, myocardial infarction	plasma membrane	transmembrane receptor
OPRM1	opioid receptor, mu 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	G-protein coupled receptor
OR13G1	olfactory receptor, family 13, subfamily G, member 1	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	G-protein coupled receptor
PALLD	palladin, cytoskeletal associated protein	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	other
PCSK9	proprotein convertase subtilisin/kexin type 9	coronary heart disease	GWAS, HGMD	coronary heart disease	coronary heart disease	extracellular space	peptidase
PDGFD	platelet derived growth factor D	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	growth factor
PDX1	pancreatic and duodenal homeobox 1	myocardial infarction	HGMD	-	myocardial infarction	nucleus	transcription regulator
PECAM1	platelet/endothelial cell adhesion molecule 1	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	other
PEMT	phosphatidylethanolamine N-methyltransferase	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
PHACTR1	phosphatase and actin regulator 1	myocardial infarction	GWAS	Myocardial infarction (early onset)	-	cytoplasm	other
PLA2G7	phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma)	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, coronary heart disease, myocardial infarction	extracellular space	enzyme
PLCL2	phospholipase C-like 2	myocardial infarction	novel	myocardial infarction	-	cytoplasm	enzyme
PLEKHO2	pleckstrin homology domain containing, family O member 2	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
PON1	paraoxonase 1	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, coronary heart disease, myocardial infarction	extracellular space	phosphatase
PON2	paraoxonase 2	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	enzyme
PPAP2B	phosphatidic acid phosphatase type 2B	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	phosphatase
PPARD	peroxisome proliferator-activated receptor delta	coronary heart disease	HGMD	-	coronary heart disease	nucleus	ligand-dependent nuclear receptor
PPARG	peroxisome proliferator-activated receptor gamma	coronary heart disease	HGMD	-	coronary heart disease	nucleus	ligand-dependent nuclear receptor
PPP1R3B	protein phosphatase 1, regulatory subunit 3B	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
PROCR	protein C receptor, endothelial	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	other
PROZ	protein Z, vitamin K-dependent plasma glycoprotein	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	peptidase
PSMA6	proteasome (prosome, macropain) subunit, alpha type, 6	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	peptidase
PSRC1	proline/serine-rich coiled-coil 1	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
PTGS1	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and	myocardial infarction	HGMD	-	myocardial infarction	cytoplasm	enzyme
PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	myocardial infarction, acute coronary syndrome	HGMD	-	acute coronary syndrome, myocardial infarction	cytoplasm	enzyme
RASD1	RAS, dexamethasone-induced 1	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
RNF130	ring finger protein 130	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	peptidase
ROS1	c-ros oncogene 1 , receptor tyrosine kinase	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	kinase
SCN5A	sodium channel, voltage-gated, type V, alpha subunit	myocardial infarction, coronary artery disease	HGMD	-	coronary artery disease, myocardial infarction	plasma membrane	ion channel
SELL	selectin L	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	other
SELP	selectin P (granule membrane protein 140kDa, antigen CD62)	myocardial infarction, coronary heart disease	HGMD	-	coronary heart disease, myocardial infarction	plasma membrane	other
SELPLG	selectin P ligand	coronary heart disease	HGMD	-	coronary heart disease	plasma membrane	other
SERPINC1	serpin peptidase inhibitor, clade C (antithrombin), member 1	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1),	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
SF3A2	splicing factor 3a, subunit2, 66kDa	myocardial infarction	novel	myocardial infarction	-	nucleus	other
SH2B3	SH2B adaptor protein 3	myocardial infarction, coronary heart disease	GWAS, HGMD	coronary heart disease	myocardial infarction	cytoplasm	other
SIRT1	sirtuin 1	myocardial infarction	HGMD	-	myocardial infarction	nucleus	transcription regulator
SLC12A9	solute carrier family 12 (potassium/chloride transporters), member 9	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transporter
SLC22A3	solute carrier family 22 (extraneuronal monoamine transporter), member 3	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transporter
SLC30A1	solute carrier family 30 (zinc transporter), member 1	coronary heart disease	GWAS	coronary heart disease	-	plasma membrane	transporter
SLC5A3	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	myocardial infarction	GWAS	Myocardial infarction (early onset)	-	plasma membrane	transporter
SLC6A4	solute carrier family 6 (neurotransmitter transporter, serotonin), member 4	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transporter
SMAD3	SMAD family member 3	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
SMARCA4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
SMCR3	Smith-Magenis syndrome chromosome region, candidate 3	coronary heart disease	GWAS	coronary heart disease	-	-	-
SMG6	smg-6 homolog, nonsense mediated mRNA decay factor (C. elegans)	coronary heart disease	GWAS	coronary heart disease	-	nucleus	enzyme
SNF8	SNF8, ESCRT-II complex subunit, homolog (S. cerevisiae)	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
SNX19	sorting nexin 19	coronary heart disease	HGMD	-	coronary heart disease	cytoplasm	transporter
SORT1	sortilin 1	myocardial infarction	GWAS, HGMD	Myocardial infarction (early onset)	myocardial infarction	plasma membrane	transmembrane receptor
SRR	serine racemase	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	enzyme
STK32B	serine/threonine kinase 32B	coronary heart disease	GWAS	coronary heart disease	-	unknown	kinase
SUMO4	SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae)	coronary heart disease	HGMD	-	coronary heart disease	unknown	other
TAS2R50	taste receptor, type 2, member 50	myocardial infarction	HGMD	-	myocardial infarction	unknown	other
TBXAS1	thromboxane A synthase 1 (platelet)	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	enzyme

TCF21	transcription factor 21	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
TCF7L2	transcription factor 7-like 2 (T-cell specific, HMG-box)	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
TERT	telomerase reverse transcriptase	coronary artery disease	HGMD	-	coronary artery disease	nucleus	enzyme
TGFB1	transforming growth factor, beta 1	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	growth factor
THBD	thrombomodulin	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transmembrane receptor
THBS1	thrombospondin 1	coronary artery disease	HGMD	-	coronary artery disease	extracellular space	other
THBS2	thrombospondin 2	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
THBS4	thrombospondin 4	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
THPO	thrombopoietin	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	cytokine
TNF	tumor necrosis factor	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	cytokine
TNFRSF11B	tumor necrosis factor receptor superfamily, member 11b	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transmembrane receptor
TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B	coronary artery disease	HGMD	-	coronary artery disease	plasma membrane	transmembrane receptor
TNFRSF4	tumor necrosis factor receptor superfamily, member 4	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	transmembrane receptor
TNFSF4	tumor necrosis factor (ligand) superfamily, member 4	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	cytokine
TNIK	TRAF2 and NCK interacting kinase	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	kinase
TRIB1	tribbles homolog 1 (Drosophila)	coronary artery disease	HGMD	-	coronary artery disease	cytoplasm	kinase
TRPC4	transient receptor potential cation channel, subfamily C, member 4	myocardial infarction	HGMD	-	myocardial infarction	plasma membrane	ion channel
TTC32	tetratricopeptide repeat domain 32	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
UBE2Z	ubiquitin-conjugating enzyme E2Z	coronary heart disease	GWAS	coronary heart disease	-	unknown	other
UTS2	urotensin 2	myocardial infarction	HGMD	-	myocardial infarction	extracellular space	other
VEGFA	vascular endothelial growth factor A	coronary heart disease	GWAS	coronary heart disease	-	extracellular space	growth factor
WDR12	WD repeat domain 12	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
WDR35	WD repeat domain 35	coronary heart disease	GWAS	coronary heart disease	-	cytoplasm	other
ZC3HC1	zinc finger, C3HC-type containing 1	coronary heart disease	GWAS	coronary heart disease	-	nucleus	other
ZFHX3	zinc finger homeobox 3	coronary heart disease	GWAS	coronary heart disease	-	nucleus	transcription regulator
ZNF259	zinc finger protein 259	coronary heart disease	GWAS	coronary heart disease	-	nucleus	other
ZNF627	zinc finger protein 627	myocardial infarction	HGMD	-	myocardial infarction	unknown	other