SUPPLEMENTARY MATERIAL

ADDITONAL FILE 3 - ADDITIONAL TABLES

Table S1. Correlation of Factor 11 and Factor 23 with the main covariates, including CVD. R² is given.

Covariate	Factor 11	Factor 23
Age	0.132	0.404
Sex	-0.218	-0.121
Height	0.146	
Weight	0.111	
Total cholesterol	-0.142	-0.112
HDL-C*	-0.102	0.100
Glucose	0.090	0.097
Granulocytes	0.094	0.656
SBP*		0.149
DBP*		-0.086
CD4+ T cells	-0.100	-0.818
CD8+ T cells	-0.095	-0.105
B cells		-0.270
Monocytes	0.116	0.159
CVD	0.093	0.097

^{*}HDL-C, Cholesterol in high-density lipoprotein; SBP, Systolic blood pressure;

DBP, Diastolic blood pressure; CVD, Cardiovascular disease

Table S2. Validation of the results in an independent study. The top 30 CpGs from Factor 11 are assessed through a logistic regression for their association to myocardial infarction in an independent case-control study from REGICOR. The genomic information of the CpGs were obtained using the manifest and annotation provided by Illumina.

Chr*	Position*	Gene	UCSC_ref*	Coef*	SE*	p-value
17	74733682	MIR636;SFRS2;MFSD11	NR_030366;NM_003016;NM_024311	-0.45	0.16	$5.55 \cdot 10^{-3}$
cg03031660 17	73257791	MRPS7;MRPS7;GGA3;GGA3	NM_015971;NM_015971;NM_014001;	0.27	0.13	$3.6 \cdot 10^{-2}$
			NM_138619	-0.27		
9	137217390	RXRA	NM_002957	-0.28	0.16	$7.6 \cdot 10^{-2}$
2	65658583	SPRED2	NM_181784	-0.26	0.16	0.11
16	73092391	ZFHX3	NM_001164766	-0.18	0.12	0.14
8	74207518	RDH10;RDH10	NM_172037;NM_172037	-0.15	0.12	0.22
cg22704520 2	200820451	C2orf60;C2orf60;C2orf47;C2orf60	NR_004862;NM_001039693;		0.13	0.26
			NM_024520;NM_001039693	-0.14		
8	17780168	PCM1	NM_006197	-0.14	0.13	0.29
20	42086396	SFRS6	NM_006275	-0.13	0.13	0.30
11	63753598	OTUB1;OTUB1;OTUB1	NM_017670;NR_003089;NM_017670	0.14	0.16	0.37
16	68057165	DUS2L;DDX28;DDX28	NM_017803;NM_018380;NM_018380	-0.11	0.13	0.38
14	68141723	VTI1B	NM_006370	-0.11	0.13	0.39
cg06642177 6	134496341	SGK1;SGK1;SGK1;SGK1	NM_001143676;NM_001143678;	-0.10	0.12	0.42
			NM_001143677;NM_005627			
4	6642433	MRFAP1	NM_033296	0.10	0.13	0.44
18	67872902	RTTN;RTTN	NM_173630;NM_173630	-0.09	0.13	0.48
22	45404910	PHF21B;PHF21B	NM_138415;NM_001135862	-0.08	0.14	0.56
11	65487814	RNASEH2C	NM_032193	-0.07	0.12	0.56
8	20559567	-	-	-0.09	0.16	0.58
16	84178213	HSDL1;LRRC50;HSDL1	NM_001146051;NM_178452;NM_031463	0.08	0.17	0.63
	17 17 9 2 16 8 2 8 20 11 16 14 6 4 18 22 11 8	17 74733682 17 73257791 9 137217390 2 65658583 16 73092391 8 74207518 2 200820451 8 17780168 20 42086396 11 63753598 16 68057165 14 68141723 6 134496341 4 6642433 18 67872902 22 45404910 11 65487814 8 20559567	17 74733682 MIR636;SFRS2;MFSD11 17 73257791 MRPS7;MRPS7;GGA3;GGA3 9 137217390 RXRA 2 65658583 SPRED2 16 73092391 ZFHX3 8 74207518 RDH10;RDH10 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 8 17780168 PCM1 20 42086396 SFRS6 11 63753598 OTUB1;OTUB1;OTUB1 16 68057165 DUS2L;DDX28;DDX28 14 68141723 VTIIB 6 134496341 SGK1;SGK1;SGK1;SGK1 4 6642433 MRFAP1 18 67872902 RTTN;RTTN 22 45404910 PHF21B;PHF21B 11 65487814 RNASEH2C 8 20559567 -	17 74733682 MIR636;SFRS2;MFSD11 NR_030366;NM_003016;NM_024311 17 73257791 MRPS7;MRPS7;GGA3;GGA3 NM_015971;NM_015971;NM_014001; 9 137217390 RXRA NM_002957 2 65658583 SPRED2 NM_181784 16 73092391 ZFHX3 NM_001164766 8 74207518 RDH10;RDH10 NM_172037;NM_172037 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 NM_004862;NM_001039693; 8 17780168 PCMI NM_006197 9 13753598 OTUB1;OTUB1 NM_017670;NR_003089;NM_017670 10 68057165 DUS2L;DDX28;DDX28 NM_017803;NM_018380;NM_018380 14 68141723 VTIIB NM_006370 14 68141723 VTIIB NM_001143676;NM_001143678; 16 6642433 MRFAP1 NM_033296 18 67872902 RTTN;RTTN NM_138415;NM_001135862 11 65487814 RNASEH2C NM_032193 8 20559567 - - <td>17 74733682 MIR636;SFRS2;MFSD11 NR_030366;NM_003016;NM_024311 -0.45 17 73257791 MRPS7;MRPS7;GGA3;GGA3 NM_015971;NM_015971;NM_014001; NM_138619 -0.27 9 137217390 RXRA NM_002957 -0.28 2 65658583 SPRED2 NM_181784 -0.26 16 73092391 ZFHX3 NM_001164766 -0.18 8 74207518 RDH10;RDH10 NM_172037;NM_172037 -0.15 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 NR_04862;NM_001039693; NM_01039693; NM_024520;NM_001039693 -0.14 8 17780168 PCM1 NM_06197 -0.14 20 42086396 SFRS6 NM_006275 -0.13 11 63753598 OTUB1;OTUB1;OTUB1 NM_017670;NR_003089;NM_017670 0.14 16 68057165 DUS2L;DDX28;DDX28 NM_017803;NM_018380;NM_018380 -0.11 14 68141723 VTI1B NM_001143676;NM_001143678; NM_001627 -0.10 4 6642433 MRFAP1 NM_033296 0.10</td> <td>17 74733682 MIR636;SFRS2;MFSD11 NR_030366;NM_003016;NM_024311 -0.45 0.16 17 73257791 MRPS7;MRPS7;GGA3;GGA3 NM_015971;NM_015971;NM_014001; NM_015971;NM_014001; NM_138619 -0.27 0.13 9 137217390 RXRA NM_002957 -0.28 0.16 16 73092391 ZFHX3 NM_001164766 -0.18 0.12 8 74207518 RDH10;RDH10 NM_172037;NM_172037 -0.15 0.12 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 NR_004862;NM_001039693; NM_024520;NM_001039693 -0.14 0.13 8 17780168 PCM1 NM_006197 -0.14 0.13 20 42086396 SFRS6 NM_006275 -0.13 0.13 11 63753598 OTUB1;OTUB1;OTUB1 NM_017670;NR_003089;NM_017670 0.14 0.16 16 68057165 DUS2L;DDX28;DDX28 NM_017803;NM_018380;NM_018380 -0.11 0.13 14 68141723 VTIIB NM_001143676;NM_0005627 -0.10 0.12 4</td>	17 74733682 MIR636;SFRS2;MFSD11 NR_030366;NM_003016;NM_024311 -0.45 17 73257791 MRPS7;MRPS7;GGA3;GGA3 NM_015971;NM_015971;NM_014001; NM_138619 -0.27 9 137217390 RXRA NM_002957 -0.28 2 65658583 SPRED2 NM_181784 -0.26 16 73092391 ZFHX3 NM_001164766 -0.18 8 74207518 RDH10;RDH10 NM_172037;NM_172037 -0.15 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 NR_04862;NM_001039693; NM_01039693; NM_024520;NM_001039693 -0.14 8 17780168 PCM1 NM_06197 -0.14 20 42086396 SFRS6 NM_006275 -0.13 11 63753598 OTUB1;OTUB1;OTUB1 NM_017670;NR_003089;NM_017670 0.14 16 68057165 DUS2L;DDX28;DDX28 NM_017803;NM_018380;NM_018380 -0.11 14 68141723 VTI1B NM_001143676;NM_001143678; NM_001627 -0.10 4 6642433 MRFAP1 NM_033296 0.10	17 74733682 MIR636;SFRS2;MFSD11 NR_030366;NM_003016;NM_024311 -0.45 0.16 17 73257791 MRPS7;MRPS7;GGA3;GGA3 NM_015971;NM_015971;NM_014001; NM_015971;NM_014001; NM_138619 -0.27 0.13 9 137217390 RXRA NM_002957 -0.28 0.16 16 73092391 ZFHX3 NM_001164766 -0.18 0.12 8 74207518 RDH10;RDH10 NM_172037;NM_172037 -0.15 0.12 2 200820451 C2orf60;C2orf60;C2orf47;C2orf60 NR_004862;NM_001039693; NM_024520;NM_001039693 -0.14 0.13 8 17780168 PCM1 NM_006197 -0.14 0.13 20 42086396 SFRS6 NM_006275 -0.13 0.13 11 63753598 OTUB1;OTUB1;OTUB1 NM_017670;NR_003089;NM_017670 0.14 0.16 16 68057165 DUS2L;DDX28;DDX28 NM_017803;NM_018380;NM_018380 -0.11 0.13 14 68141723 VTIIB NM_001143676;NM_0005627 -0.10 0.12 4

cg14036868	2	38604442	ATL2;ATL2;ATL2	NM_001135673;NR_024191;NM_022374	-0.06	0.13	0.63
cg13390975	5	34915890	BRIX1;RAD1;RAD1	NM_018321;NR_026591;NM_002853	-0.05	0.12	0.68
cg16120422	12	113590924	CCDC42B	NM_001144872	-0.04	0.12	0.76
cg05300158	4	140477727	SETD7	NM_030648	-0.03	0.12	0.78
cg04553410	7	150864885	GBX1	NM_001098834	-0.03	0.13	0.82
cg26649251	19	44598564	ZNF224;ZNF224	NM_013398;NM_013398	-0.03	0.14	0.83
cg14037413	11	9482594	ZNF143;ZNF143	NM_003442;NM_003442	0.03	0.17	0.85
cg09238957	16	46723420	ORC6L;VPS35	NM_014321;NM_018206	0.008	0.14	0.95

^{*}Chr, chromosome; Position, genomic position; UCSC_ref; Refseq gene ID from the UCSC Genome Browser; Coef, coefficient of the association; SE, standard error of the coefficient