

## SUPPLEMENTARY MATERIAL

### ADDITIONAL FILE 3 - ADDITIONAL TABLES

**Table S1.** Correlation of Factor 11 and Factor 23 with the main covariates, including CVD. R<sup>2</sup> 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.

Feature	Chr*	Position*	Gene	UCSC_ref*	Coef*	SE*	p-value
cg21028463	17	74733682	<i>MIR636;SFRS2;MFSD11</i>	NR_030366;NM_003016;NM_024311	-0.45	0.16	$5.55 \cdot 10^{-3}$
cg03031660	17	73257791	<i>MRPS7;MRPS7;GGA3;GGA3</i>	NM_015971;NM_015971;NM_014001; NM_138619	-0.27	0.13	$3.6 \cdot 10^{-2}$
cg24341498	9	137217390	<i>RXRA</i>	NM_002957	-0.28	0.16	$7.6 \cdot 10^{-2}$
cg11877270	2	65658583	<i>SPRED2</i>	NM_181784	-0.26	0.16	0.11
cg07786668	16	73092391	<i>ZFHX3</i>	NM_001164766	-0.18	0.12	0.14
cg17662034	8	74207518	<i>RDH10;RDH10</i>	NM_172037;NM_172037	-0.15	0.12	0.22
cg22704520	2	200820451	<i>C2orf60;C2orf60;C2orf47;C2orf60</i>	NR_004862;NM_001039693; NM_024520;NM_001039693	-0.14	0.13	0.26
cg19034708	8	17780168	<i>PCMI</i>	NM_006197	-0.14	0.13	0.29
cg01438737	20	42086396	<i>SFRS6</i>	NM_006275	-0.13	0.13	0.30
cg19233923	11	63753598	<i>OTUB1;OTUB1;OTUB1</i>	NM_017670;NR_003089;NM_017670	0.14	0.16	0.37
cg24654547	16	68057165	<i>DUS2L;DDX28;DDX28</i>	NM_017803;NM_018380;NM_018380	-0.11	0.13	0.38
cg26260369	14	68141723	<i>VTIIB</i>	NM_006370	-0.11	0.13	0.39
cg06642177	6	134496341	<i>SGK1;SGK1;SGK1;SGK1</i>	NM_001143676;NM_001143678; NM_001143677;NM_005627	-0.10	0.12	0.42
cg24475210	4	6642433	<i>MRFAP1</i>	NM_033296	0.10	0.13	0.44
cg22223655	18	67872902	<i>RTTN;RTTN</i>	NM_173630;NM_173630	-0.09	0.13	0.48
cg18036763	22	45404910	<i>PHF21B;PHF21B</i>	NM_138415;NM_001135862	-0.08	0.14	0.56
cg25294185	11	65487814	<i>RNASEH2C</i>	NM_032193	-0.07	0.12	0.56
ch.8.20603847F	8	20559567	-	-	-0.09	0.16	0.58
cg08965527	16	84178213	<i>HSDL1;LRRC50;HSDL1</i>	NM_001146051;NM_178452;NM_031463	0.08	0.17	0.63

cg14036868	2	38604442	<i>ATL2;ATL2;ATL2</i>	NM_001135673;NR_024191;NM_022374	-0.06	0.13	0.63
cg13390975	5	34915890	<i>BRX1;RAD1;RAD1</i>	NM_018321;NR_026591;NM_002853	-0.05	0.12	0.68
cg16120422	12	113590924	<i>CCDC42B</i>	NM_001144872	-0.04	0.12	0.76
cg05300158	4	140477727	<i>SETD7</i>	NM_030648	-0.03	0.12	0.78
cg04553410	7	150864885	<i>GBX1</i>	NM_001098834	-0.03	0.13	0.82
cg26649251	19	44598564	<i>ZNF224;ZNF224</i>	NM_013398;NM_013398	-0.03	0.14	0.83
cg14037413	11	9482594	<i>ZNF143;ZNF143</i>	NM_003442;NM_003442	0.03	0.17	0.85
cg09238957	16	46723420	<i>ORC6L;VPS35</i>	NM_014321;NM_018206	0.008	0.14	0.95

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*\*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*