

**TABLE S1:** The information for alleles captured by rs9380586, rs4713998, rs6930083 and rs6931097, accordingly.

<b>Alleles captured</b>	<b>Location</b>	<b>tagSNP</b>	<b>r<sup>2</sup></b>
rs6930083	Exon 1	rs6930083	1.0
rs4711457	Exon 2	rs6930083	1.0
rs4713999	Exon 2	rs6930083	1.0
rs9394368	3' UTR	rs6930083	1.0
rs4713996	3' UTR	rs6930083	1.0
rs4714001	5' UTR	rs6930083	0.938
rs4713997	3' UTR	rs9380586	1.0
rs9380586	3' UTR	rs9380586	1.0
rs9380585	3' UTR	rs9380586	1.0
rs4714000	5' UTR	rs9380586	1.0
rs6931097	Exon 1	rs6931097	1.0
rs4713998	Exon 2	rs4713998	1.0

**TABLE S2.** The sequences of the primers and probes used to genotype the rs9380586, rs4713998, rs6930083 and rs6931097 polymorphisms.

Name	Sequence (5'-3')
<b>Primers</b>	
rs9380586-F	GGAGCCTTTCTATAGTTTTTC
rs9380586-R	AATCAATGAATCCTCCTCTG
rs4713998-F	AGAATAACCCGAGCTGAAGG
rs4713998-R	ATGCATAGACGGTTGTGGTG
rs6930083-F	AAGGATGTGAAGCCATTTGC
rs6930083-R	GTGAGCAGTCAGCCAGTTTG
rs6931097-F	AGAAAATGGGTAGCTGGAGG
rs6931097-R	CATTCACATGGTCCACAGTC
<b>Probes</b>	
rs9380586_modify	P-CCTTTTTCATGATATTA AAAAATTTTTTTTTTTTTTTTTTTTTTTT-FAM
rs9380586_A	TTTTTTTTTTTTTTTTTTTTTAATGAATCCTCCTCTGAAACAAT
rs9380586_G	TTTTTTTTTTTTTTTTTTTTTAATGAATCCTCCTCTGAAACAAC
rs4713998_modify	P-AGAGAGAGAATGGGGCCATCTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTT-FAM
rs4713998_A	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGACACAGGAGA GGCAAGAT
rs4713998_G	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGACACAGGA GAGGCAAGAC
rs6930083_modify	P-GCTAGCTGTGGGCTGTAATGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTT-FAM
rs6930083_A	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAACCAAGACAGTAGG TCCT
rs6930083_G	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAACCAAGACAGTA GGTCCC
rs6931097_modify	P-CTCCTACCCCTACCCTCCAGTTTTTTTTTTTTTTTTTTTTTTT-FAM
rs6931097_A	TTTTTTTTTTTTTTTTTTAGGCTATTCAGTGAAAACCTCTCT
rs6931097_G	TTTTTTTTTTTTTTTTTTAGGCTATTCAGTGAAAACCTCTCC

**TABLE S3.** The characteristics of premature CAD, MI and controls.

Variable	Controls (n =309)	CAD (n =238)	MI (n =129)	<i>P</i> <sup>a</sup> vs. controls	
				CAD	MI
Age (years)	50.47 ± 6.96	51.77 ± 6.40	51.40 ± 6.29	<b>0.025<sup>b</sup></b>	0.194
Sex (male)	175 (56.6%)	189 (79.4%)	109 (85.4%)	<b>&lt;0.001</b>	<b>&lt;0.001<sup>b</sup></b>
Smoking	83 (26.9%)	150 (63.0%)	84 (65.1%)	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Drinking	50 (16.2%)	69 (29.0%)	36 (27.9%)	<b>&lt;0.001</b>	<b>0.005</b>
Hypertension	76 (24.6%)	148 (62.2%)	78 (60.5%)	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Diabetes	44 (14.2%)	113 (47.5%)	62 (48.1%)	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Hyperlipidemia	125 (40.5%)	176 (73.9%)	97 (75.2%)	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Systolic BP (mm Hg)	128.50 ± 15.79	141.83 ± 18.76	140.13 ± 19.91	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Diastolic BP (mm Hg)	72.83 ± 10.10	76.97 ± 10.42	76.21 ± 11.27	<b>&lt;0.001</b>	<b>0.002</b>
FPG (mM)	5.78 ± 2.32	6.59 ± 1.60	6.61 ± 1.64	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Triglycerides (mM)	1.58 ± 0.94	2.16 ± 1.08	2.17 ± 1.11	<b>&lt;0.001</b>	<b>&lt;0.001</b>
Total cholesterol (mM)	4.61 ± 1.18	4.83 ± 1.25	4.88 ± 1.19	<b>0.041</b>	<b>0.036</b>
HDL cholesterol (mM)	1.44 ± 0.89	1.19 ± 0.38	1.15 ± 0.38	<b>&lt;0.001</b>	<b>&lt;0.001</b>
LDL cholesterol (mM)	2.61 ± 0.99	3.08 ± 0.93	3.12 ± 0.98	<b>&lt;0.001</b>	<b>&lt;0.001</b>

<sup>a</sup> Two-sided chi-square test or independent-samples *t*-test.

<sup>b</sup> *P* values under 0.05 were shown in bold font.

**TABLE S4.** Multivariate associations of the SNPs in *lincRNA-p21* gene with the risk of premature CAD/MI.

Type	Controls	premature Cases		OR (95% CI) <sup>a</sup> vs. controls		P <sup>a</sup> vs. controls	
	No. (%) n=309	CAD (%) n=238	MI (%) n=129	CAD	MI	CAD	MI
<b><u>rs9380586</u></b>							
G	555 (89.8)	418 (87.8)	227 (88.0)	1	1		
A	63 (10.2)	58 (12.2)	31 (12.0)	1.40 (0.86-2.28)	1.42 (0.79-2.57)	0.172	0.244
GG	251 (81.2)	184 (77.3)	100 (77.6)	1	1		
AA+AG	58 (18.8)	54 (22.7)	29 (22.4)	1.38 (0.81-2.36)	1.33 (0.69-2.54)	0.235	0.393
<b><u>rs4713998</u></b>							
A	486 (78.6)	385 (80.9)	205 (79.5)	1	1		
G	132 (21.4)	91 (19.1)	53 (20.5)	0.77 (0.52-1.14)	0.89 (0.55-1.44)	0.187	0.634
AA	191 (61.8)	155 (65.1)	79 (61.2)	1	1		
AG+GG	118 (38.2)	83 (34.9)	50 (38.8)	0.70 (0.45-1.10)	0.88 (0.51-1.51)	0.125	0.646
<b><u>rs6930083</u></b>							
G	436 (70.6)	351 (73.7)	205 (79.5)	1	1		
A	182 (29.4)	125 (26.3)	53 (20.5)	0.94 (0.66-1.35)	1.00 (0.64-1.56)	0.743	0.997
GG	149 (48.2)	127 (53.4)	79 (61.2)	1	1		
AG+AA	160 (51.8)	111 (46.6)	50 (38.8)	0.90 (0.59-1.39)	1.02 (0.60-1.73)	0.646	0.942
<b><u>rs6931097</u></b>							
G	375 (60.7)	291 (61.1)	162 (62.8)	1	1		
A	243 (39.3)	185 (38.9)	96 (37.2)	0.89 (0.67-1.25)	0.86 (0.58-1.27)	0.583	0.434
GG	115 (37.2)	86 (36.1)	48 (37.2)	1	1		
AA+AG	194 (62.8)	152 (63.9)	81 (62.8)	0.92 (0.59-1.43)	0.87 (0.51-1.50)	0.708	0.618

<sup>a</sup> Adjusted for sex, smoking, drinking, hypertension, diabetes, hyperlipidemia.