Supplemental Data

The IL-33/ST2L Pathway Is Associated

with Coronary Artery Disease

in a Chinese Han Population

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SUPPLEMENTAL DATA

TABLE S1

Population (n, case/control) Gene-SNP (reference allele)	Model	Case (n)	Control (n)	*P-obs*	*P-adj*	OR (95%CI)
CAD-discovery (860/707)						
IL33-rs7025417(T)	ADD	275/456/129	177/375/155	2.31×10^{-4}	5.17×10^{-5}	1.36(1.17-1.58)
	DOM	731/129	552/155	3.99×10^{-4}	4.74×10^{-4}	1.59(1.23-2.07)
	REC	275/585	177/530	2.54×10^{-3}	1.51×10^{-3}	1.44(1.15-1.81)
IL1RL1-rs11685424(G)	ADD	272/431/157	177/374/156	9.61×10^{-3}	1.15×10^{-3}	1.28(1.10-1.48)
	DOM	703/157	551/156	6.05×10^{-2}	3.17×10^{-2}	1.32(1.02-1.69)
	REC	272/588	177/530	4.08×10^{-3}	1.77×10^{-3}	1.43(1.14-1.80)
CAD-validation (575/471)						
IL33-rs7025417(T)	ADD	184/304/87	104/250/117	1.87×10^{-5}	5.63×10^{-7}	1.61(1.34-1.94)
	DOM	488/87	354/117	8.03×10^{-5}	4.20×10^{-5}	1.92(1.40-2.62)
	REC	184/391	104/367	3.53×10^{-4}	3.16×10^{-4}	1.68(1.27-2.22)
IL1RL1-rs11685424(G)	ADD	184/288/103	105/249/117	5.19×10^{-4}	1.62×10^{-5}	1.49(1.24-1.79)
	DOM	472/103	354/117	6.23×10^{-3}	2.93×10^{-3}	1.58(1.17-2.14)
	REC	184/391	105/366	4.78×10^{-4}	4.24×10^{-4}	1.66(1.25-2.19)
CAD-replication-1 (2016/1647)						
IL33-rs7025417(T)	ADD	647/1079/290	428/884/335	2.55×10^{-7}	6.59×10^{-8}	1.31(1.19-1.45)
	DOM	1726/290	1312/335	1.88×10^{-6}	2.66×10^{-6}	1.52(1.28-1.81)
	REC	647/1369	428/1219	5.40×10^{-5}	3.00×10^{-5}	1.36(1.18-1.58)
IL1RL1-rs11685424(G)	ADD	636/1012/368	377/837/433	6.87×10^{-12}	1.34×10^{-12}	1.41(1.28-1.55)
	DOM	1648/368	1214/433	4.81×10^{-9}	5.35×10^{-9}	1.60(1.37-1.88)
	REC	636/1380	377/1270	5.63×10^{-9}	6.56×10^{-9}	1.58(1.34-1.81)
CAD-replication-2 (1070/1984)						
IL33-rs7025417(T)	ADD	373/525/172	474/1023/487	1.76×10^{-12}	5.29×10^{-13}	1.50(1.34-1.67)
	DOM	898/172	1497/487	5.65×10^{-8}	1.09×10^{-7}	1.70(1.40-2.06)
	REC	373/697	474/1510	1.05×10^{-10}	1.91×10^{-10}	1.70(1.44-2.00)
IL1RL1-rs11685424(G)	ADD	350/540/180	435/1036/513	4.47×10^{-13}	9.73×10^{-14}	1.52(1.36-1.69)
	DOM	890/180	1471/513	1.29×10^{-8}	1.77×10^{-8}	1.72(1.42-2.08)
	REC	350/720	435/1549	7.68×10^{-11}	1.12×10^{-10}	1.73(1.46-2.05)
CAD-Combined (4521/4809)						
IL33-rs7025417(T)	ADD	1479/2364/678	1183/2532/1094	1.99×10^{-28}	3.57×10^{-30}	1.42(1.34-1.51)
	DOM	3843/678	3715/1094	1.42×10^{-21}	1.74×10^{-22}	1.70(1.53-1.89)

				P-obs	P-adj	OR
	REC	1479/3042	1183/3626	4.16×10^{-18}	1.54×10^{-18}	1.50(1.37-1.64)
IL1RL1-rs11685424(G)	ADD	1442/2271/808	1094/2496/1219	1.35×10^{-29}	2.17×10^{-30}	1.41(1.33-1.50)
	DOM	3713/808	3590/1219	2.10×10^{-18}	2.54×10^{-18}	1.56(1.41-1.73)
	REC	1442/3079	1094/3715	3.26×10^{-23}	4.98×10^{-23}	1.59(1.45-1.75)
GeneID-anatomical-CAD (1598/4809)						
IL33-rs7025417(T)	ADD	504/844/250	1183/2532/1094	1.00×10^{-11}	1.06×10^{-11}	1.35(1.24-1.47)
	DOM	1348/250	3715/1094	1.67×10^{-9}	3.83×10^{-9}	1.59(1.37-1.86)
	REC	504/1094	1183/3626	4.84×10^{-8}	2.87×10^{-8}	1.40(1.23-1.59)
IL1RL1-rs11685424(G)	ADD	493/820/285	1094/2496/1219	7.71×10^{-14}	1.02×10^{-13}	1.38(1.27-1.51)
	DOM	1313/285	3590/1219	9.13×10^{-10}	7.46×10^{-9}	1.55(1.33-1.79)
	REC	493/1105	1094/3715	9.04×10^{-11}	3.32×10^{-10}	1.52(1.32-1.72)
GeneID-clinical-CAD (2923/4809)						
IL33-rs7025417(T)	ADD	975/1520/428	1183/2532/1094	1.00×10^{-24}	6.33×10^{-23}	1.43(1.33-1.53)
	DOM	2495/428	3715/1094	4.21×10^{-18}	2.51×10^{-16}	1.70(1.50-1.93)
	REC	975/1948	1183/3626	8.54×10^{-17}	6.94×10^{-15}	1.52(1.37-1.68)
IL1RL1-rs11685424(G)	ADD	949/1451/523	1094/2496/1219	7.43×10^{-25}	4.06×10^{-22}	1.41(1.31-1.51)
	DOM	2400/523	3590/1219	3.21×10^{-14}	4.29×10^{-11}	1.49(1.32-1.68)
	REC	949/1947	1094/3715	6.88×10^{-21}	1.14×10^{-19}	1.64(1.47-1.82)

Table S1. Genotypic association analysis of rs7025417 in *IL33* and rs11685424 in *IL1RL1* with CAD in the GeneID Chinese Han Population. *P-obs*, observed *P* value; *P-adj*, *P* value adjusted by covariates; OR, odds ratio after adjustment; ADD, additive model, rs7025417_TT/TC/CC, rs11685424_GG/GA/AA; DOM, dominant model, rs7025417_TT+TC/CC, rs11685424_GG+GA/AA; REC, recessive model, rs7025417_TT/TC+CC, rs11685424_GG/GA+AA.

TABLE S2

Gene-SNP (reference allele)	Frequency		P-hwe	P-obs	P-adj	OR & (95%CI)
	Case	Control				
IL33-rs10975514(G)	0.416	0.439	0.006	0.23	0.2	0.91(0.78-1.06)
IL33-rs10975519(C)	0.435	0.444	0.998	0.61	0.64	0.96(0.83-1.12)
IL1RL1-rs3771180(T)	0.134	0.148	0.005	0.28	0.33	0.89(0.72-1.11)

Table S2. Allelic associations between rs10975514, rs10975519 and rs3771180 and CAD in the GeneID-discovery population. *P-hwe*, *P* value from Hardy-Weinberg equilibrium tests; *P-obs*, observed *P* value; *P-adj*, *P* value adjusted by covariates; OR, odds ratio after adjustment.