

Supplementary Table S4. Results of linear regression analysis: genes significantly associated with high-risk plaque features

Leaman score			Segment involvement score (SIS)			Segment stenosis score (SSS)		
Gene Symbol	R	P-value	Gene Symbol	R	P-value	Gene Symbol	R	P-value
KMT5A	0.75	0.0001	KIAA0930	0.70	0.0001	AC092164.1	0.73	0.0002
GSEC	0.70	0.0003	MGST2	0.65	0.0005	GSEC	0.72	0.0002
SEMA3B	0.70	0.0003	FAM20C	0.65	0.0005	KMT5A	0.69	0.0004
AC092164.1	0.67	0.0006	SPINT1	0.65	0.0005	RGL4	0.64	0.0009
LINC01513	0.64	0.0009	FUT4	0.65	0.0005	PRMT5	0.63	0.0009
ALPL	0.64	0.0010	GNA15	0.63	0.0007	P2RX1	0.63	0.0011
MAK	0.62	0.0015	SRA1	0.63	0.0007	PNPLA1	0.61	0.0016
N4BP1	0.62	0.0014	PGM5	0.63	0.0010	RCCD1	-0.61	0.0016
KCNJ15	0.61	0.0016	RNPEP	0.63	0.0008	CAMKMT	-0.61	0.0015
AC040970.1	0.61	0.0016	PLP2	0.62	0.0009	AP000919.4	-0.63	0.0011
ROPN1L	0.61	0.0017	HLA-DRB5	0.61	0.0012	HLCS	-0.63	0.0010
AP000919.4	-0.61	0.0016	SMARCD3	0.61	0.0010	ST3GAL5	-0.64	0.0007
AL391058.1	-0.61	0.0016	RBMS2	0.61	0.0013	ARMCX7P	-0.64	0.0009
AL603766.1	-0.61	0.0016	FXYD6	0.61	0.0013	WDR70	-0.64	0.0004
SCAT1	-0.61	0.0016	CTSD	0.60	0.0013	MIR762HG	-0.67	0.0005
FBXO4	-0.61	0.0015	GRK3	0.60	0.0008	SOCS7	-0.68	0.0004
WDR70	-0.62	0.0008	MS4A6A	0.60	0.0012	BRMS1L	-0.69	0.0004
EXD2	-0.63	0.0012	ATP11C	-0.61	0.0012			
AC004801.1	-0.66	0.0006	ADNP2	-0.61	0.0013			
			FBXO21	-0.61	0.0012			
			ZSWIM5	-0.61	0.0012			
			BTN3A3	-0.61	0.0010			
			TRAV8-3	-0.62	0.0011			
			CCDC183-AS1	-0.62	0.0011			
			NCAPD3	-0.63	0.0009			
			TRAV21	-0.64	0.0008			
			SMN2	-0.64	0.0007			
			ZNF337	-0.64	0.0007			
			AL096816.1	-0.65	0.0006			

AHI1	-0.65	0.0006
NFE2L3	-0.67	0.0004
GALNT12	-0.68	0.0003
TRAV20	-0.70	0.0002
AMIGO2	-0.78	0.0000

	Plaques with density < 150 HU					
	Gene Symbol	R	P-value	Gene Symbol	R	P-value
	AC092746.1	0.73	0.0002	TOB1-AS1	0.61	0.0019
	LINC02207	0.71	0.0004	CLEC4D	0.61	0.0019
	RNASEL	0.71	0.0002	AFDN	0.61	0.0022
	AC093752.1	0.69	0.0004	Z98886.1	0.61	0.0019
	C5orf30	0.68	0.0005	HSDL2	0.61	0.0017
	PEX2	0.68	0.0004	OSTF1	0.61	0.0020
	HERPUD2	0.67	0.0004	APH1B	0.61	0.0021
	ATP11B	0.66	0.0006	MAP1LC3B	0.61	0.0016
	CEBPB-AS1	0.66	0.0008	SUPT20H	0.61	0.0014
	IL18R1	0.66	0.0008	CDC123	0.61	0.0019
	HMGB2	0.65	0.0008	ZNF100	0.61	0.0018
	KIF1B	0.65	0.0009	SPTY2D1	0.60	0.0024
	GPR141	0.64	0.0013	SRPK1	0.60	0.0019
	GPBP1L1	0.64	0.0009	TPPP3	-0.60	0.0026
	IL18RAP	0.64	0.0014	P2RY11	-0.61	0.0021
	LMTK2	0.63	0.0014	ACSF2	-0.61	0.0019
	SELENOTP1	0.63	0.0014	XKR7	-0.61	0.0022
	POLR2C	0.62	0.0018	AGPAT3	-0.62	0.0015
	DCUN1D3	0.62	0.0019	ALDH1B1	-0.62	0.0018
	ATXN1	0.62	0.0015	EIF3B	-0.62	0.0012
	ZNF396	0.62	0.0018	ADCK1	-0.62	0.0014
	RASGEF1A	0.62	0.0015	C21orf58	-0.64	0.0013
	GADD45A	0.62	0.0018	VASH1	-0.64	0.0014
	BMX	0.62	0.0017	AL009179.1	-0.64	0.0012
	GYG1	0.62	0.0014	IDH3A	-0.64	0.0011
	ZNF608	0.62	0.0020	NLN	-0.65	0.0009
	TMX4	0.62	0.0019	PTPDC1	-0.66	0.0009
	HEATR5A	0.62	0.0015	PTGFRN	-0.66	0.0009
	GTDC1	0.62	0.0019	AC124944.2	-0.70	0.0003