SUPPLEMENTAL MATERIAL

Table S1. Primer sequences and PCR conditions for SNP and microsatellites genotyping.

Variants	F/R	Primer Sequence (5' to 3')	PCR conditions
rs9910355	F	ATCACGCCACTGTACTCCAGC	45s,30s,45s (95,60,72) ×
rs9910355	R	GAACACACTGGAAATACAACAGAAGC	30
rs9910355	PEF	GCAGTGAGCCGAGATTGTGC	
rs9910355	PER	TCTGTCACTTAGGCTAAAGTGCAGC	
rs9303504	F	ATCACGCCACTGTACTCCAGC	45s,30s,45s (95,60,72) ×
rs9303504	R	GAACACACTGGAAATACAACAGAAGC	30
rs9303504	PEF	GCTCTGGGCTTTTTTGTTTAATTTTCT	
rs9303504	PER	GCATTAGCAATATACTTCAATTGTCATATTACT	
rs9909004	F	CAAAGTCAGTCATCAGAGAACAGAGCGATC	30s,30s,30s (95,60,72) ×
rs9909004	R	GGTCACATTTTGAGAGGCTGTTTC	30
rs9909004	PEF	GGGGCAGTGGAGCTGAAACAGTGTTAT	
rs9909004	PER	CCCTTTTCCAGTACTGAAAGCAGTG	
rs12601850	F	ACTTTGTATTCAAGTGGCTTTTCTTCC	30s,30s,30s (95,60,72) ×
rs12601850	R	ACTTTGTTCTCGATGACAACTGGTATTC	30
rs12601850	PEF	GGACTCACTGCAACTAATTTTAGGCC	
rs12601850	PER	CTAAACAAACAAACCCTTACTAGAATGAAATA	
rs17633437	F	GATGCCGTTTGGCAGTTTCTAG	30s,30s,30s (95,60,72) ×
rs17633437	R	GACTGTATATTCAAACTTGTTGGCTACAA	30
rs17633437	PEF	TTTCATTTGGTCTTCAGGAACAAATA	
rs17633437	PER	GTTTATGGTTAAAATTGTAAAAGGAAGTTGC	
rs7210446	F	AACCATGACCAACAGGAGCC	45s,30s,45s (95,60,72) ×
rs7210446	R	TCCAAAGTGCTGGGATGACA	30
rs7210446	PEF	GAGATAGGAGACTGAGGTACAAGTTGG	
rs7210446	PER	CTGGCCTACCTCATGATTCCA	
rs2227857	F- cDNA	AGAAATCTGGGACTGGGATCG	30s,30s,20s (95,59,72) ×
rs2227857	R- cDNA	TTCCATGTTTCCTTCGTC	30

2227057	DEE		
rs2227857	PEF	GGCCAGTGGATGGTACAAGTT	
rs2227857	PER	GTAGTACTCACCTTCTTCTTGGTTAAG	
rs2228945	F- cDNA	CTGATGACCAAACACCCAGCC	30s,30s,20s (95,59,72) ×
2222045	D DMA	CTTTCCCCTTC A ATCCTCC	20
rs2228945	R- cDNA	CTTTGGGCTTGAATGGTGG	30
rs2228945	PEF	GGGAGAGGGACGTGAGAGA	
rs2228945	PER	ATCCTCCGGAAGAAGGCATG	
15	E EAD		20, 20, 20, (05, (1, 1,
15×GCC	F-FAM	CCCGCATCCCCACTCG	30s,30s,30s(95,61,decreas
15×GCC	R	GCGCTCGCGCTTCCTACTC	e1/cycle,72)×8,30s,30s,30
			3
			$s(95,53,72) \times 28$
rs35476409	F-FAM	TTCTCCCCTGTATTGCTAGTCTG	30s,30s,30s (95,60,72) ×
13334/0409	1 -1 /XIVI	TrefeccetalAffactAdfeta	505,505,505 (95,00,72) ^
rs35476409	R	CCAAACTCCCTTCACATCCA	35

Table S2. Primers and cloning sites used in reporter plasmid cloning reactions.

SNPs	F/R	Primer Sequence (5' to 3')	Cloning
			sites
rs9910355/rs9303504	F	TTTCTCTATCGATAGGTACCATCACGCCACTGTACTCCAGC	KpnI
rs9910355/rs9303504	R	ACGCGTAAGAGCTCGGTACCGAACACACTGGAAATACAACAGAAGC	
rs9909004	F	CTAGCCCGGGCTCGAGTGAAAACTGATATTACCAGGGCAAG	XhoI
rs9909004	R	GATCGCAGATCTCGAGCCCCTCAAAATCCAGTGACG	
rs12601850	F	TTTCTCTATCGATAGGTACC GGGTTTGGGAAACAAGGCTTC	KpnI
rs12601850	R	ACGCGTAAGAGCTCGGTACCGCCCAGATGGGAAATGGAACC	
rs17633437	F	TTTCTCTATCGATAGGTACCGGCATATGAAGCGACTGTGCTC	KpnI
rs17633437	R	ACGCGTAAGAGCTCGGTACCCTTGGGGGGAAAAAAATCTTG	
rs7210446	F	CTAGCCCGGGCTCGAGAACCATGACCAACAGGAGCC	XhoI
rs7210446	R	GATCGCAGATCTCGAGTCCAAAGTGCTGGGATGACA	

Table S3. Chromatin state and histone marks for candidate SNPs in heart and other tissues.

SNP	Chromatin state (core 15 state	Active enhancer mark	Poised enhancer mark
	model) as enhancer	(H3K4me1+H3K29ac)	(H3K4me1 only)
rs9910355	heart tissues, IMR90 cell and	other 5 tissues/cells, not in	left ventricle and other 7
	T-cells	heart	tissues/cells
rs9303504	heart tissues, IMR90 cell and	other 5 tissues/cells, not in	left ventricle and other 9
	T-cells	heart	tissues/cells
rs9909004	most of the tissues/cells	most of the tissues/cells	left ventricle and most of the
	studied, not in heart	studied, not in heart	tissues/cells studied
rs12601850	most of the tissues/cells	most of the tissues/cells	most of the tissues/cells
	studied, not in heart	studied, not in heart	studied, not in heart
rs17633437	most of the tissues/cells	most of the tissues/cells	most of the tissues/cells
	studied, not in heart	studied, not in heart	studied, not in heart
rs7210446	most of the tissues/cells	most of the tissues/cells	most of the tissues/cells
	studied, not in heart	studied, not in heart	studied, right ventricle
rs9910577	other 7 tissues/cells, not in	other 6 tissues/cells, not in	other 9 tissues/cells, not in
	heart	heart	heart
rs9890911	T-cells	T-cells, not in heart	left ventricle and other 9
			tissues/cells
rs9912468	none	other 3 tissues/cells, not in	other 5 tissues/cells, not in
		heart	heart
rs11867573	other 3 tissues/cells, not in	other 3 tissues/cells, not in	other 11 tissues/cells, not in
	heart	heart	heart
rs8071250	T-cells	other 4 tissues/cells, not in	other 10 tissues/cells, not in
		heart	heart
rs9892651	other 4 tissues/cells, not in	other 11 tissues/cells, not in	other 14 tissues/cells, not in
	heart	heart	heart
rs11079650	T-cells and Colon	other 4 tissues/cells, not in	other 9 tissues/cells, not in
		heart	heart

rs4577128	other 4 tissues/cells, not in	other 2 tissues/cells, not in	most of the tissues/cells
	heart	heart	studied, not in heart
rs9893075	T-cells	other 5 tissues/cells, not in	other 6 tissues/cells, not in
		heart	heart
rs11658550	T-cells	other 4 tissues/cells, not in	other 7 tissues/cells, not in
		heart	heart
rs11658630	T-cells	other 5 tissues/cells, not in	other 6 tissues/cells, not in
		heart	heart
rs12940610	T-cells	other 4 tissues/cells, not in	most of the tissues/cells
		heart	studied, not in heart
rs4335805	T-cells	T-cells	most of the tissues/cells
			studied, not in heart
rs4328478	T-cells and fetal Kidney	T-cells	most of the tissues/cells
			studied, not in heart
rs7406054	T-cells	other 5 tissues/cells, not in	other 7 tissues/cells, not in
		heart	heart
rs7406066	T-cells	other 4 tissues/cells, not in	other 8 tissues/cells, not in
		heart	heart
rs35183571	other 10 tissues/cells, not in	other 8 tissues/cells, not in	most of the tissues/cells
	heart	heart	studied, not in heart
rs12944131	other 4 tissues/cells, not in	other 3 tissues/cells, not in	most of the tissues/cells
	heart	heart	studied, not in heart

Data are from Haploreg v4.1.