

Cardiovascular panels

Cardiac genetics

Cardiac genetic testing with
associated pre- and post-test
genetic counselling

Sonic Genetics provides the following gene panels for genetic testing in familial cardiovascular disorders. A panel is defined by the clinical features of a selected cardiovascular disorder or group of disorders in an affected patient.



SONIC PATHOLOGY
AUSTRALIA

These panels are not suitable for determining the absolute cardiovascular risk in an unaffected person. Each panel is selected from a list of genes on the basis of the clinical presentations associated with the selected genes. Some genes may have multiple presentations and hence are listed in more than one panel. The genes included in each panel are under continual review. For further information please refer to our website, www.sonicgenetics.com.au/cardio.

AORTOPATHY PANEL	\$2,225*
Also known as:	Thoracic aortic aneurysm, Lois-Dietz syndrome, Marfan syndrome, Ehlers-Danlos syndrome type 4, EDS type 4, vascular Ehlers-Danlos syndrome, vEDS
Genes:	ACTA2, ADAMTS10, CBS, COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, EFEMP2, ELN, FBN1, FBN2, FLNA, FLNB, MFAP5, MYH11, MYLK, NOTCH1, PLOD1, PRKG1, SKI, SLC2A10, SMAD3, SMAD4, TGFB2, TGFB2, TGFB2
ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY PANEL	\$1,892*
Also known as:	ARVC, arrhythmogenic right ventricular dysplasia, ARVD
Genes:	CTNNA3, DES, DSC2, DSG2, DSP, JUP, LMNA, PKP2, PLN, RYR2, TGFB3, TMEM43, TTN
BRUGADA SYNDROME PANEL	\$1,892*
Also known as:	Brugada syndrome
Genes:	ABCC9, CACNA1C, CACNA2D1, CACNB2, FGF12, GPD1L, HCN4, KCND2, KCND3, KCNE3, KCNE5, KCNH2, KCNJ8, PKP2, RANGRF, SCN10A, SCN1B, SCN2B, SCN3B, SCN5A, SEMA3A, SLMAP, TRPM4
DILATED CARDIOMYOPATHY PANEL	\$2,225*
Also known as:	DCM
Genes:	ABCC9, ACTC1, ACTN2, ALMS1, ANKRD1, BAG3, CRYAB, CSRP3, DES, DMD, DSC2, DSG2, DSP, EYA4, FKTN, GATAD1, GLA, ILK, JUP, LAMA4, LAMP2, LDB3, LMNA, MYBPC3, MYH6, MYH7, MYL2, MYPN, NEXN, PLN, PRDM16, PSEN1, PSEN2, RAF1, RBM20, SCN5A, SDHA, SGCD, TAZ, TBX20, TCAP, TMPO, TNNC1, TNNT2, TNNT2, TPM1, TTN, VCL
FAMILIAL HYPERCHOLESTEROLAEMIA PANEL [^]	Medicare rebate available
Also known as:	FH
Genes:	APOB, LDLR, LDLRAP1, PCSK9
FAMILIAL TYPE 3 HYPERLIPIDAEMIA PANEL [^]	\$154*
Also known as:	APOE screen, apolipoprotein E genotyping, hyperlipoproteinaemia type III, dysbetalipoproteinaemia
Genes:	APOE gene for E2, E3, and E4 variants
HYPERTRIGLYCERIDAEMIA PANEL	\$1,664*
Also known as:	Familial hypertriglyceridaemia
Genes:	APOA5, APOC2, APOC3, GPD1, GPIHBP1, LIPA, LMF1, LPL
HYPERTROPHIC CARDIOMYOPATHY PANEL	\$1,892*
Also known as:	Hypertrophic obstructive cardiomyopathy, HCM, HOCM
Genes:	ACTC1, ACTN2, ANKRD1, CALR3, CAV3, CSRP3, FHL1, GLA, JPH2, LAMP2, LDB3, MYBPC3, MYH6, MYH7, MYL2, MYL3, MYLK2, MYOZ2, MYPN, NEXN, PLN, PRKAG2, SLC25A4, SOS1, TAZ, TCAP, TNNC1, TNNT2, TNNT2, TPM1, TTN, TTR, VCL
LONG QT SYNDROME PANEL	\$1,892*
Also known as:	LQT syndrome, LQTS, Romano-Ward syndrome, Jervell and Lange-Nielsen syndrome
Genes:	AKAP9, ANK2, CACNA1C, CALM1, CALM2, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, SCN4B, SCN5A, SNTA1, TRPM4
LEFT VENTRICULAR NON-COMPACTION PANEL	\$1,892*
Also known as:	Isolated ventricular non-compaction, LVNC
Genes:	ACTC1, DTNA, LDB3, LMNA, MIB1, MYBPC3, MYH7, PRDM16, TAZ, TNNT2, TPM1
PULMONARY HYPERTENSION PANEL	\$1,664*
Also known as:	Pulmonary veno-occlusive disease, hereditary haemorrhagic telangiectasia, PHT
Genes:	ACVRL1, BMPR1B, BMPR2, CAV1, EIF2AK4, ENG, KCNK3, SMAD4, SMAD9, TBX4
VASCULOPATHY PANEL	\$1,664*
Also known as:	Hereditary haemorrhagic telangiectasia, aortic valve disease, polycystic kidney disease, tortuosity of retinal arteries, Adams-Oliver syndrome, cutis laxa, arterial tortuosity syndrome
Genes:	ACVRL1, COL4A1, EFEMP2, ENG, FLNA, GDF2, NOTCH1, PKD1, SLC2A10, SMAD4

*Prices correct at time of printing. Cardiac genetic testing is not funded through Medicare except where noted. Prepayment may be required for non-MBS rebated tests. If you wish to order more than one panel, please contact us on 1800 010 447. Pricing includes pre- and post-test genetic counselling with a qualified genetic counsellor.

What is involved in cardiac genetic testing?

- 1) An appropriate Sonic Genetics test request form is completed by a medical specialist.
- 2) Payment and collection is arranged by contacting 1800 010 447.
- 3) Pre-test counselling is provided by a qualified genetic counsellor, arranged by Sonic Genetics.
- 4) Results are reported in 4–8 weeks.
- 5) Post-test counselling will be arranged and conducted by an appropriately qualified genetic counsellor.