

Cardiovascular Diseases Testing Program Reference Sequences
Molecular Genetics Laboratory

Cardiomyopathy Panels	
Gene Name	Refseq ID
<i>ABCC9</i>	NM_005691.2; NM_020297.2
<i>ACTC1</i>	NM_005159.4
<i>ACTN2</i>	NM_001103.2
<i>ANKRD1</i>	NM_014391.2
<i>BAG3</i>	NM_004281.3
<i>CAV3</i>	NM_033337.2
<i>CRYAB</i>	NM_001885.1
<i>CSRP3</i>	NM_003476.3
<i>DES</i>	NM_001927.3
<i>DSC2</i>	NM_024422.3; NM_004949.3
<i>DSG2</i>	NM_001943.3
<i>DSP</i>	NM_004415.2; NM_001008844.1
<i>EMD</i>	NM_000117.2
<i>JUP</i>	NM_002230.2
<i>LAMP2</i>	NM_002294.2; NM_013995.2
<i>LDB3</i>	NM_001080116.1; NM_007078.2
<i>LMNA</i>	NM_005572.2; NM_170707.2
<i>MYBPC3</i>	NM_000256.3
<i>MYH6</i>	NM_002471.3
<i>MYH7</i>	NM_000257.2
<i>MYL2</i>	NM_000432.3
<i>MYL3</i>	NM_000258.2
<i>MYPN</i>	NM_032578.2
<i>NEBL</i>	NM_006393.2
<i>NEXN</i>	NM_144573.3
<i>PKP2</i>	NM_004572.3; NM_001005242.2
<i>PLN</i>	NM_002667.3
<i>PRKAG2</i>	NM_016203.3
<i>RBM20</i>	NM_001134363.1
<i>RYR2</i>	NM_001035.2

Cardiomyopathy Panels (con't)	
Gene Name	Refseq ID
<i>SCN5A</i>	NM_198056.2; NM_001160160.1
<i>SCO2</i>	NM_005138.2 or NM_001169109.1
<i>SGCD</i>	NM_000337.5; NM_001722442.1
<i>SURF1</i>	NM_003172.2
<i>TAZ</i>	NM_000116.3
<i>TCAP</i>	NM_003673.3
<i>TGFB3</i>	NM_003239.2
<i>TMEM43</i>	NM_024334.2
<i>TNNC1</i>	NM_003280.2
<i>TNNI3</i>	NM_000363.4
<i>TNNT2</i>	NM_000364.2; NM_001001430.1
	NM_001018005.1; NM_0001018006.1; NM_0001018007.1;
<i>TPM1</i>	NM_000366.5; NM_0001018008.1
<i>TTN</i>	NM_133378.4; NM_133437.3; NM_133379.3; NM_133432.3
<i>TTR</i>	NM_000371.3
<i>VCL</i>	NM_014000.2

Thoracic Aortic Aneurysm and Dissections Panels	
Gene Name	Refseq ID
<i>ACTA2</i>	NM_001613.2; NM_001141945.1
<i>CBS</i>	NM_000071.2
<i>COL3A1</i>	NM_000090.3
<i>FBN1</i>	NM_000138.4
<i>FBN2</i>	NM_001999.3
<i>FLNA</i>	NM_001456.3; NM_001110556.1
<i>MYH11</i>	NM_002474.2; NM_022844.2; NM_001040113.1; NM_001040114.1
<i>MYLK</i>	NM_053025.3
<i>SKI</i>	NM_003036.3
<i>SLC2A10</i>	NM_030777.3
<i>SMAD3</i>	NM_005902.3; NM_001145103.1
<i>TGFB2</i>	NM_003238.3; NM_001135599.2
<i>TGFB1</i>	NM_004612.2; NM_001130916.1
<i>TGFB2</i>	NM_003242.5; NM_001024847.2

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Noonan Spectrum Disorders Panels	
Gene Name	Refseq ID
<i>A2ML1</i>	NM_144670.5, NM_001282424.2
<i>BRAF</i>	NM_004333.4
<i>CBL</i>	NM_005188.2
<i>HRAS</i>	NM_005343.2; NM_001130442.1; NM_176795.3
<i>KRAS</i>	NM_004985.3; NM_033360.2
<i>LZTR1</i>	NM_006767.3
<i>MAP2K1</i>	NM_002755.3
<i>MAP2K2</i>	NM_030662.3
<i>NF1</i>	NM_000267.3; NM_001042492.2; NM_001128147
<i>NF2</i>	NM_000268.3, NM_016418.5,, NM_181828.2, NM_181829.2, NM_181830.2, NM_181832.2, NM_181833.2, NM_181825.2, NM_181831.2
<i>NRAS</i>	NM_002524.4
<i>PTEN</i>	NM_000314.5, NM_001304718.1
<i>PTPN11</i>	NM_002834.3; NM_080601.1
<i>RAF1</i>	NM_002880.3
<i>RASA1</i>	NM_002890.2, NM_022650.2
<i>RASA2</i>	NM_006506.3, NM_001303245.1, NM_001303246.1
<i>RIT1</i>	NM_006912.5 (for NGS), NM_001256821.1 (for Sanger)
<i>RRAS</i>	NM_006270.4
<i>SHOC2</i>	NM_007373.3
<i>SOS1</i>	NM_005633.3
<i>SOS2</i>	NM_006939.3
<i>SPRED1</i>	NM_152594.2
<i>TBCK</i>	NM_033115.4, NM_001163435.2, NM_001163436.2, NM_001163437.2, NM_001290768.1
<i>TSC1</i>	NM_000368.4, NM_001162426.1, NM_001162427.1
<i>TSC2</i>	NM_000548.3, NM_001077183.2, NM_001114382.2, NM_001318827.1, NM_001318829.1, NM_001318831.1, NM_001318832.1, NM_001009944.2

Heterotaxy Panels	
Gene Name	Refseq ID
<i>ACVR2B</i>	NM_001106.3
<i>BCL9L</i>	NM_182557.2
<i>CCDC11</i>	NM_145020.3
<i>CFC1</i>	NM_032545.3
<i>CRELD1</i>	NM_015513.4; NM_001031717.3
<i>DNAH11</i>	NM_003777.3; NM_001277115.1
<i>DNAH5</i>	NM_001369.2
<i>FOXH1</i>	NM_003923.2
<i>GATA6</i>	NM_005257.4
<i>GDF1</i>	NM_001492.4
<i>GJA1</i>	NM_000165.3
<i>LEFTY2</i>	NM_003240.3
<i>NAT10</i>	NM_024662.2
<i>NKX2-5</i>	NM_004387.3
<i>NODAL</i>	NM_018055.4
<i>SHROOM3</i>	NM_020859.3
<i>ZIC3</i>	NM_003413.3