

CustomNext-Cardio (9520) or Reaccessioning (9520-A) **SUPPLEMENTAL ORDERING FORM**

PATIENT INFORMATION																
Last Name				First Name				Middle Initial		DOB (MM/DD/YY)						
CUSTOMIZE YOUR PANEL																
<p>To create your own panel, select desired genes below <b>OR</b> select a multi-gene test option as a base and add or remove genes below:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> <input type="checkbox"/> ARVCNext (8904): 11 gene arrhythmogenic right ventricular cardiomyopathy test  <input type="checkbox"/> CardioNext (8911): 92 gene cardiomyopathy and arrhythmia test  <input type="checkbox"/> CMNNext (8887): 56 gene cardiomyopathy test  <input type="checkbox"/> CPVTNext (8902): 4 gene catecholaminergic polymorphic ventricular tachycardia test  <input type="checkbox"/> DCMNext (8884): 37 gene dilated cardiomyopathy test  <input type="checkbox"/> FCSNext (8920): 5 genes for familial chylomicronemia syndrome  <input type="checkbox"/> FHNext (8680): 4 gene familial hypercholesterolemia test  <input type="checkbox"/> HCMNext (8936): 30 gene hypertrophic cardiomyopathy test         </td> <td style="width: 50%;"> <input type="checkbox"/> HHTNext (8672): 6 genes for hereditary hemorrhagic telangiectasia  <input type="checkbox"/> LongQTNext (8890): 17 gene long QT, Brugada, and short QT test  <input type="checkbox"/> NoonanNext (8402): 18 gene RASopathy test  <input type="checkbox"/> RhythmNext (8900): 42 gene inherited arrhythmia test  <input type="checkbox"/> Sitosterolemia (8930): 2 genes for sitosterolemia  <input type="checkbox"/> TAADNext (8789): 35 genes for thoracic aortic aneurysms/dissections         </td> </tr> </table> <p style="text-align: right;"><i>A list of genes for each multi-gene test is available on <a href="http://ambrygen.com">ambrygen.com</a>.</i></p>												<input type="checkbox"/> ARVCNext (8904): 11 gene arrhythmogenic right ventricular cardiomyopathy test <input type="checkbox"/> CardioNext (8911): 92 gene cardiomyopathy and arrhythmia test <input type="checkbox"/> CMNNext (8887): 56 gene cardiomyopathy test <input type="checkbox"/> CPVTNext (8902): 4 gene catecholaminergic polymorphic ventricular tachycardia test <input type="checkbox"/> DCMNext (8884): 37 gene dilated cardiomyopathy test <input type="checkbox"/> FCSNext (8920): 5 genes for familial chylomicronemia syndrome <input type="checkbox"/> FHNext (8680): 4 gene familial hypercholesterolemia test <input type="checkbox"/> HCMNext (8936): 30 gene hypertrophic cardiomyopathy test	<input type="checkbox"/> HHTNext (8672): 6 genes for hereditary hemorrhagic telangiectasia <input type="checkbox"/> LongQTNext (8890): 17 gene long QT, Brugada, and short QT test <input type="checkbox"/> NoonanNext (8402): 18 gene RASopathy test <input type="checkbox"/> RhythmNext (8900): 42 gene inherited arrhythmia test <input type="checkbox"/> Sitosterolemia (8930): 2 genes for sitosterolemia <input type="checkbox"/> TAADNext (8789): 35 genes for thoracic aortic aneurysms/dissections			
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CUSTOM GENE SELECTION																
<input type="checkbox"/> ADD			AKAP9, ANK2, CACNA1C, CALM1, CALM2, CALM3, CAV3, KCNE1, KCNE2, KCNH2, KCNJ2, KCNJ5, KCNQ1, SCN4B, SCNSA, SNTA1, TRDN <small>(These genes are included in LongQTNext. All 17 genes must be ordered as a bundle.)</small>													
ADD	GENE	REMOVE	ADD	GENE	REMOVE	ADD	GENE	REMOVE	ADD	GENE	REMOVE	ADD	GENE	REMOVE		
Arrhythmias & Cardiomyopathies			RASopathies			Thoracic Aortic Aneurysms/Dissections, Marfan, Related Disorders			Lipid Disorders			Other				
<input type="checkbox"/> ABCC9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GLA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN1B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NRAS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> FOXE3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> APOB	<input type="checkbox"/>
<input type="checkbox"/> ACTC1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GPD1L	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN2B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PPP1CB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LOX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> APOC2	<input type="checkbox"/>
<input type="checkbox"/> ACTN2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> HCN4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN3B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PTPN11 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MAT2A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> APOC3	<input type="checkbox"/>
<input type="checkbox"/> ALMS1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> JPH2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TAZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RAF1 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MED12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> APOE	<input type="checkbox"/>
<input type="checkbox"/> ALPK3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> KCND3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TBX20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RASA1 <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MFAPS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Report APOE homozygous e2 allele	<input type="checkbox"/>
<input type="checkbox"/> ANKRD1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> KCNE3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TBX5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RIT1 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYH11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CYP27A1	<input type="checkbox"/>
<input type="checkbox"/> BAG3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> KCNJ8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TCAP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SHOC2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYLK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GPIHBP1	<input type="checkbox"/>
<input type="checkbox"/> CACNA2D1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LAMA4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TECRL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SOS1 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NOTCH1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LCAT	<input type="checkbox"/>
<input type="checkbox"/> CACNB2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LAMP2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TMEM43	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SOS2 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PLOD1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LDLR	<input type="checkbox"/>
<input type="checkbox"/> CASQ2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LDB3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TNNC1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SPRED1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PRDM5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LDLRAP1	<input type="checkbox"/>
<input type="checkbox"/> CRYAB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LMNA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TNNI3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TSHZ1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PRKG1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LIPA	<input type="checkbox"/>
<input type="checkbox"/> CSRP3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYH6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TPM1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SOS2 <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SKI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LMF1	<input type="checkbox"/>
<input type="checkbox"/> DES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYH7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TRPM4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TTN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SLC2A10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> LPL	<input type="checkbox"/>
<input type="checkbox"/> DMD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYL2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TPRM1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TTR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SMAD3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PCSK9	<input type="checkbox"/>
<input type="checkbox"/> DOLK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYL3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TXNRD2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> VCL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TGFBR1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SLCO1B1 c.521T>C <sup>3</sup>	<input type="checkbox"/>
<input type="checkbox"/> DSC2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYOZ2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> MYPN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> ACTA2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL1A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Hereditary Hemorrhagic Telangiectasia	<input type="checkbox"/>
<input type="checkbox"/> DSG2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NEXN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> NKX2-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> BGN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL3A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> ACVR1I	<input type="checkbox"/>
<input type="checkbox"/> DSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PLN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PKP2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CBS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL5A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> ENG	<input type="checkbox"/>
<input type="checkbox"/> EMD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PRKAG2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> PRKAG2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CHST14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL5A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> EPHB4	<input type="checkbox"/>
<input type="checkbox"/> EYA4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RBM20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> RYR2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> EFEMP2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL1A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GDF2	<input type="checkbox"/>
<input type="checkbox"/> FHL1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> FBN1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL1A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other	<input type="checkbox"/>
<input type="checkbox"/> FKRP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> FBN2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL3A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GAA	<input type="checkbox"/>
<input type="checkbox"/> FTKN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> FKBPI4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL5A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> GATA4	<input type="checkbox"/>
<input type="checkbox"/> FLNC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> FLNA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL5A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> JAG1	<input type="checkbox"/>
<input type="checkbox"/> GATA1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SCN10A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> ABCA1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> COL1A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> TBX1	<input type="checkbox"/>

<sup>1</sup>Also associated with HHT    <sup>2</sup>Also associated with cardiomyopathy (RAF1 is associated with both DCM and HCM)    <sup>3</sup>Available as an add-on when other lipid genes are ordered

Total Gene Count (REQUIRED: include total number of genes on your CustomNext-Cardio panel): \_\_\_\_\_

REFLEX TESTING	
1. <input type="checkbox"/> Test Code: _____	Test Name: _____ reflex to _____
2. <input type="checkbox"/> Test Code: _____	Test Name: _____
RE-REQUISITIONING ORDERS (Available within 60 days of original report date for any of the multi-gene panels listed above)	
Accession #: _____ Previously reported hereditary cardiovascular panel: _____	
<input type="checkbox"/> (9520-A) Add the gene(s) selected above to the previously-reported panel for this patient	
Medical Professional Signature: _____ Date: _____	
Medical Professional Name (Print): _____	

## CustomNext-Cardio GENE DECISION GUIDE

With CustomNext-Cardio, you can choose from up to 167 genes associated with heritable cardiovascular and lipid disorders to create a customized panel that best fits your patient's needs. Below is a list of genes that you may want to consider for each different condition. Since some genes are associated with more than one condition, genes may be listed under more than one category.

