

### Transcript Consequence

NM\_004572.3:c.1130T>C  
NM\_004572.3:c.1454G>A  
NM\_004572.3:c.159C>A  
NM\_004572.3:c.1660A>G  
NM\_004572.3:c.1669A>G  
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NM\_004572.3:c.2386T>C  
NM\_004572.3:c.2537C>A  
NM\_004572.3:c.2560C>T  
NM\_004572.3:c.983G>T  
NM\_004572.3:c.1130T>C  
NM\_004572.3:c.2636T>C  
NM\_004572.3:c.746G>A  
NM\_004572.3:c.1190T>A  
NM\_004572.3:c.1366A>C  
NM\_004572.3:c.1547A>G  
NM\_004572.3:c.158G>A  
NM\_004572.3:c.1643G>T  
NM\_004572.3:c.236G>A  
NM\_004572.3:c.1385C>G  
NM\_004572.3:c.1660A>G  
NM\_004572.3:c.2633C>T  
NM\_004572.3:c.2636T>C  
NM\_004572.3:c.2543G>C  
NM\_004572.3:c.194C>T  
NM\_004572.3:c.1718G>A  
NM\_004572.3:c.1162C>T  
NM\_004572.3:c.1941T>G  
NM\_004572.3:c.2291A>G  
NM\_004572.3:c.2386T>C  
NM\_004572.3:c.2502C>G  
NM\_004572.3:c.916C>A  
NM\_004572.3:c.1669A>G  
NM\_004572.3:c.1367A>C  
NM\_004572.3:c.2100A>T  
NM\_004572.3:c.1162C>T  
NM\_004572.3:c.1742G>A  
NM\_004572.3:c.1292T>C  
NM\_004572.3:c.1613G>A  
NM\_004572.3:c.1132C>T

### Protein Consequence (NP\_004563.2)

NP\_004563.2:p.Ile377Thr  
NP\_004563.2:p.Gly485Glu  
NP\_004563.2:p.Ser53Arg  
NP\_004563.2:p.Ile554Val  
NP\_004563.2:p.Asn557Asp  
NP\_004563.2:p.Ser615Phe  
NP\_004563.2:p.Leu706Pro  
NP\_004563.2:p.Leu709Phe  
NP\_004563.2:p.Cys796Arg  
NP\_004563.2:p.Ser846Tyr  
NP\_004563.2:p.His854Tyr  
NP\_004563.2:p.Gly328Val  
NP\_004563.2:p.Ile377Thr  
NP\_004563.2:p.Leu879Pro  
NP\_004563.2:p.Ser249Asn  
NP\_004563.2:p.Ile397Asn  
NP\_004563.2:p.Lys456Gln  
NP\_004563.2:p.Lys516Arg  
NP\_004563.2:p.Ser53Asn  
NP\_004563.2:p.Gly548Val  
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NP\_004563.2:p.Ile554Val  
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NP\_004563.2:p.Arg573Lys  
NP\_004563.2:p.Arg388Trp  
NP\_004563.2:p.Cys647Trp  
NP\_004563.2:p.Asn764Ser  
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NP\_004563.2:p.Asn834Lys  
NP\_004563.2:p.Pro306Thr  
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NP\_004563.2:p.Glu700Asp  
NP\_004563.2:p.Arg388Trp  
NP\_004563.2:p.Gly581Glu  
NP\_004563.2:p.Leu431Ser  
NP\_004563.2:p.Trp538\*  
NP\_004563.2:p.Gln378\*

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NP\_004563.2:p.Gly5AlafsX34  
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NP\_004563.2:p.Ala523Serfs\*18  
NP\_004563.2:p.Trp538\*  
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NP\_004563.2:p.Trp538\*  
NP\_004563.2:p.Trp538X  
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NP\_004563.2:p.Gly548ValfsX15  
NP\_004563.2:p.Ala570fs  
NP\_004563.2:p.Leu586Argfs\*70  
NP\_004563.2:p.Val587fs  
NP\_004563.2:p.Val608Cysfs\*6  
NP\_004563.2:p.Gln638X  
NP\_004563.2:p.Ser652fs  
NP\_004563.2:p.Glu667X  
NP\_004563.2:p.Gln707X  
NP\_004563.2:p.His733Alafs\*8  
NP\_004563.2:p.His733Alafs\*8  
NP\_004563.2:p.His733Alafs\*8

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NM_004572.3:c.2197_2202delinsG	NP_004563.2:p.His733fs
NM_004572.3:c.2197_2202delinsG	NP_004563.2:p.His733fs
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NM_004572.3:c.2197_2202delinsG	NP_004563.2:p.His733fs
NM_004572.3:c.2197_2202delinsG	NP_004563.2:p.His733fs
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NM_004572.3:c.235C>T	NP_004563.2:p.Arg79*
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NM_004572.3:c.2509delA	NP_004563.2:p.Ser837ValfsX94
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NM_004572.3:c.2554delG	NP_004563.2:p.Glu852Asnfs*79
NM_004572.3:c.269_272delTACA	NP_004563.2:p.Leu90fs
NM_004572.3:c.270_273delins15	NP_004563.2:p.His91Glyfs*4
NM_004572.3:c.275T>A	NP_004563.2:p.Leu92*
NM_004572.3:c.275T>A	NP_004563.2:p.Leu92*
NM_004572.3:c.663C>A	NP_004563.2:p.Tyr221*
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NM_004572.3:c.775G>T	NP_004563.2:p.Glu259*
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NM_004572.3:c.929_951dupTGGATTCCAGCGGG/	NP_004563.2:p.His318Trpfs*10
NM_004572.3:c.2509delA	NP_004563.2:p.Ser837ValfsX94
NM_004572.3:c.-9_12dup	NP_004563.2:p.Pro4_Gly5ins7
NM_004572.3:c.235C>T	NP_004563.2:p.Arg79*
NM_004572.3:c.1237C>T	NP_004563.2:p.Arg413*
NM_004572.3:c.1252delG	NP_004563.2:p.Ala418Profs*2
NM_004572.3:c.1725_1728dupGATG	NP_004563.2:p.Arg577Aspfs*5
NM_004572.3:c.390C>G	NP_004563.2:p.Tyr130*
NM_004572.3:c.623delC	NP_004563.2:p.Thr208Lysfs*55
NM_004572.3:c.968_971delinsGCCT	NP_004563.2:p.Gln323_Ala324delinsArgLe
NM_004572.3:c.1237C>T	NP_004563.2:p.Arg413*
NM_004572.3:c.2081_2083delinsATCGCCAAAA	NP_004563.2:p.Val694Aspfs*51

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NM\_004572.3:c.1613G>A  
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NM\_004572.3:c.1821dupT  
NM\_004572.3:c.1912C>T  
NM\_004572.3:c.2197\_2202delinsG  
NM\_004572.3:c.837\_838delCG  
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NM\_004572.3:c.1803delC

NP\_004563.2:p.Thr50Serfs\*61  
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NP\_004563.2:p.Arg413\*  
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NP\_004563.2:p.Gln638\*  
NP\_004563.2:p.His733fs  
NP\_004563.2:p.Val280Hisfs\*55  
NP\_004563.2:p.His733Alafs\*8  
NP\_004563.2:p.His733Alafs\*8  
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<b>MAF</b>	<b>Annotation</b>	<b>Diagnosis</b>	<b>Contributor</b>
0.00003183	Missense	ARVC	LMM ARVC
7.41E-06	Missense	ARVC	Invitae
4.64E-06	Missense	ARVC	LMM ARVC
0.00002786	Missense	ARVC	LMM ARVC
0.00003539	Missense	ARVC	Invitae
0	Missense	ARVC	Invitae
0.00003184	Missense	ARVC	Invitae
0	Missense	ARVC	LMM ARVC
0	Missense	ARVC	Invitae
0	Missense	ARVC	Invitae
0.00002475	Missense	ARVC	LMM ARVC
0	Missense	ARVC	Invitae
0.00003183	Missense	cardiomyopathy	Invitae
0.00001591	Missense	cardiomyopathy	Invitae
7.96E-06	Missense	cardiomyopathy	Invitae
0.00002477	Missense	DCM	Invitae
0	Missense	DCM	Invitae
0	Missense	DCM	Invitae
4.64E-06	Missense	DCM	Invitae
0	Missense	DCM	Invitae
0.00002476	Missense	DCM LVNC	Invitae
0.00003237	Missense	I42.0	Invitae
0.00002786	Missense	I42.8/peripartum CM	Invitae
3.98E-06	Missense	I42.8	Invitae
0.00001591	Missense	I42.8	Invitae
0.00002784	Missense	I42.9	Invitae
0.00002957	Missense	I46.9	Invitae
0	Missense	NICM	Invitae
3.98E-06	Missense	ARVC	Invitae
0.00002122	Missense	SCA	Invitae
7.96E-06	Missense	SCA	Invitae
0	Missense	SCA	Invitae
3.98E-06	Missense	SCA	Invitae
0	Missense	SCA	Invitae
0.00003539	Missense	SCA DCM	Invitae
0	Missense	SCD	Invitae
0	Missense	SCD	Invitae
3.98E-06	Missense	VT	Invitae
0.00001194	Missense	ARVC	LMM ARVC
7.96E-06	Missense	VT NICM	Invitae
1.5912E-05	Truncating	ALVC	Invitae
7.07E-06	Truncating	ARVC	Invitae

7.07E-06	Truncating	ARVC	LMM
7.07E-06	Truncating	ARVC	LMM
7.07E-06	Truncating	ARVC	LMM
7.07E-06	Truncating	ARVC	LMM
0	Truncating	ARVC	Invitae
0	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
1.4146E-05	Truncating	ARVC	Invitae
1.4146E-05	Truncating	ARVC	Invitae
1.4146E-05	Truncating	ARVC	Invitae
1.4146E-05	Truncating	ARVC	LMM
1.4146E-05	Truncating	ARVC	LMM
1.4146E-05	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	Invitae
0	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
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0	Truncating	ARVC	LMM
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0	Truncating	ARVC	Invitae
1.5912E-05	Truncating	ARVC	Invitae
1.5912E-05	Truncating	ARVC	Invitae
1.5912E-05	Truncating	ARVC	Invitae
1.5912E-05	Truncating	ARVC	LMM
1.5912E-05	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	Invitae
0	Truncating	ARVC	LMM
3.98E-06	Truncating	ARVC	Invitae
7.07E-06	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
3.98E-06	Truncating	ARVC	LMM
0	Truncating	ARVC	LMM
0	Truncating	ARVC	Invitae
0	Truncating	ARVC	Invitae
0	Truncating	ARVC	Invitae

0 Truncating	ARVC	Invitae
0 Truncating	ARVC	LMM
0 Truncating	ARVC	LMM
0 Truncating	ARVC	LMM
0 Truncating	ARVC	LMM
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3.98E-06 Truncating	ARVC	LMM
0.00E+00 Truncating	ARVC	LMM
3.98E-06 Truncating	ARVC	Invitae
3.98E-06 Truncating	ARVC	Invitae
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3.98E-06 Truncating	ARVC	Invitae
0 Truncating	ARVC	LMM
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7.95E-06 Truncating	ARVC	Invitae
7.95E-06 Truncating	ARVC	Invitae
3.1853E-05 Truncating	ARVC	Invitae
0 Truncating	ARVC	LMM
0 Truncating	ARVC	Invitae
3.99E-06 Truncating	ARVC	Invitae
3.99E-06 Truncating	ARVC	Invitae
0 Truncating	cardiomyopathy	LMM
0 Truncating	DCM	Invitae
3.98E-06 Truncating	DCM	Invitae
1.4146E-05 Truncating	142.0, 142.8	Invitae
0 Truncating	142.8	Invitae
0 Truncating	142.8	Invitae
3.99E-06 Truncating	142.8	Invitae
0 Truncating	142.8	Invitae
0 Truncating	142.8	Invitae
1.4146E-05 Truncating	142.9	Invitae
0 Truncating	148.0	Invitae

0	Truncating	SCD	Invitae
1.5912E-05	Truncating	see attached letter	Invitae
1.4146E-05	Truncating	VT	Invitae
3.98E-06	Truncating	VT	LMM
7.07E-06	Truncating	VT	Invitae
0	Truncating	VT	LMM
7.08E-06	Truncating	VT	Invitae
0	Truncating	VT, cardiomyopathy	Invitae
0	Truncating	VT, SCA, RV dilation	Invitae
3.1847E-05	Truncating	VT/VF	Invitae



**Transcript Consequence (NM\_004572.3)**

NM\_004572.3:c.2628C>A  
NM\_004572.3:c.2620A>T  
NM\_004572.3:c.2554delG  
NM\_004572.3:c.2385delC  
NM\_004572.3:c.2312\_2313delTC  
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NM\_004572.3:c.2203C>T  
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NM\_004572.3:c.837\_838delCG  
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NM\_004572.3:c.663C>A  
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**Protein Consequence (NP\_004563.2)**

NP\_004563.2:p.Tyr876Ter  
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NP\_004563.2:p.Glu852AsnfsTer79  
NP\_004563.2:p.Cys796ValfsTer4  
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NP\_004563.2:p.Ser751Ter  
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NP\_004563.2:p.Lys625AsnfsTer31  
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NP\_004563.2:p.Leu442ArgfsTer5  
NP\_004563.2:p.Arg413Ter  
NP\_004563.2:p.Gln383ProfsTer4  
NP\_004563.2:p.Gln378Ter  
NP\_004563.2:p.Arg355Ter  
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NP\_004563.2:p.Gly504Val  
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NP\_004563.2:p.Asp498Asn  
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NP\_004563.2:p.Ser154Arg  
NP\_004563.2:p.Ser154Asn  
NP\_004563.2:p.Asp153Glu  
NP\_004563.2:p.Asp153Asn  
NP\_004563.2:p.Pro152Ser  
NP\_004563.2:p.Ile150Met  
NP\_004563.2:p.Glu149Asp  
NP\_004563.2:p.Leu145Pro  
NP\_004563.2:p.His143Arg  
NP\_004563.2:p.Arg142Thr  
NP\_004563.2:p.Ser140Phe  
NP\_004563.2:p.Ser140Thr  
NP\_004563.2:p.Glu138Asp  
NP\_004563.2:p.Glu137Lys  
NP\_004563.2:p.Val136Met  
NP\_004563.2:p.Val136Leu  
NP\_004563.2:p.Ser135Phe  
NP\_004563.2:p.Arg125Lys  
NP\_004563.2:p.Trp123Ser  
NP\_004563.2:p.Arg122Leu  
NP\_004563.2:p.Arg122His  
NP\_004563.2:p.Arg122Cys  
NP\_004563.2:p.Thr118Ile  
NP\_004563.2:p.Thr115Ile  
NP\_004563.2:p.Met110Thr  
NP\_004563.2:p.Asp109Asn  
NP\_004563.2:p.Tyr108His  
NP\_004563.2:p.Thr107Ile  
NP\_004563.2:p.Pro105Ala  
NP\_004563.2:p.Pro105Ser  
NP\_004563.2:p.Pro103Thr  
NP\_004563.2:p.Pro103Ala  
NP\_004563.2:p.Arg101His  
NP\_004563.2:p.Gly100Asp  
NP\_004563.2:p.Gly100Ser  
NP\_004563.2:p.Val98Ala  
NP\_004563.2:p.Val98Ile  
NP\_004563.2:p.Asp96Glu  
NP\_004563.2:p.Val93Ile  
NP\_004563.2:p.Leu92Phe  
NP\_004563.2:p.Leu92Ser  
NP\_004563.2:p.Leu92Val

NM\_004572.3:c.265A>C  
NM\_004572.3:c.259G>C  
NM\_004572.3:c.257A>G  
NM\_004572.3:c.255G>T  
NM\_004572.3:c.250C>T  
NM\_004572.3:c.247G>A  
NM\_004572.3:c.236G>A  
NM\_004572.3:c.224G>A  
NM\_004572.3:c.223G>A  
NM\_004572.3:c.222C>A  
NM\_004572.3:c.222C>G  
NM\_004572.3:c.214G>A  
NM\_004572.3:c.214G>T  
NM\_004572.3:c.212C>T  
NM\_004572.3:c.209G>C  
NM\_004572.3:c.208A>G  
NM\_004572.3:c.194C>T  
NM\_004572.3:c.184C>A  
NM\_004572.3:c.176A>T  
NM\_004572.3:c.174G>T  
NM\_004572.3:c.172G>A  
NM\_004572.3:c.159C>A  
NM\_004572.3:c.158G>A  
NM\_004572.3:c.155A>G  
NM\_004572.3:c.149C>T  
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NM\_004572.3:c.136C>A  
NM\_004572.3:c.131G>A  
NM\_004572.3:c.122C>G  
NM\_004572.3:c.110A>G  
NM\_004572.3:c.106G>A  
NM\_004572.3:c.76G>A  
NM\_004572.3:c.70C>G  
NM\_004572.3:c.68G>A  
NM\_004572.3:c.56A>C  
NM\_004572.3:c.53G>A  
NM\_004572.3:c.35A>G  
NM\_004572.3:c.29A>G  
NM\_004572.3:c.20C>A  
NM\_004572.3:c.19C>T  
NM\_004572.3:c.14G>A

NP\_004563.2:p.Asn89His  
NP\_004563.2:p.Val87Leu  
NP\_004563.2:p.Tyr86Cys  
NP\_004563.2:p.Glu85Asp  
NP\_004563.2:p.Pro84Ser  
NP\_004563.2:p.Val83Ile  
NP\_004563.2:p.Arg79Gln  
NP\_004563.2:p.Gly75Glu  
NP\_004563.2:p.Gly75Arg  
NP\_004563.2:p.Asn74Lys  
NP\_004563.2:p.Asn74Lys  
NP\_004563.2:p.Val72Met  
NP\_004563.2:p.Val72Leu  
NP\_004563.2:p.Ser71Phe  
NP\_004563.2:p.Ser70Thr  
NP\_004563.2:p.Ser70Gly  
NP\_004563.2:p.Ala65Val  
NP\_004563.2:p.Gln62Lys  
NP\_004563.2:p.Gln59Leu  
NP\_004563.2:p.Glu58Asp  
NP\_004563.2:p.Glu58Lys  
NP\_004563.2:p.Ser53Arg  
NP\_004563.2:p.Ser53Asn  
NP\_004563.2:p.Lys52Arg  
NP\_004563.2:p.Thr50Ile  
NP\_004563.2:p.Gln49Arg  
NP\_004563.2:p.Arg46Ser  
NP\_004563.2:p.Ser44Asn  
NP\_004563.2:p.Ala41Gly  
NP\_004563.2:p.Lys37Arg  
NP\_004563.2:p.Ala36Thr  
NP\_004563.2:p.Asp26Asn  
NP\_004563.2:p.Gln24Glu  
NP\_004563.2:p.Gly23Glu  
NP\_004563.2:p.Gln19Pro  
NP\_004563.2:p.Gly18Asp  
NP\_004563.2:p.Tyr12Cys  
NP\_004563.2:p.Tyr10Cys  
NP\_004563.2:p.Pro7Gln  
NP\_004563.2:p.Pro7Ser  
NP\_004563.2:p.Gly5Asp

<b>Allele Count</b>	<b>Allele Frequency</b>	<b>Annotation</b>
2	7.95317E-06	Truncating
2	7.95323E-06	Truncating
1	3.9769E-06	Truncating
1	3.97703E-06	Truncating
1	3.98365E-06	Truncating
1	3.97738E-06	Truncating
6	2.12205E-05	Truncating
1	3.97842E-06	Truncating
1	3.1841E-05	Truncating
1	3.97791E-06	Truncating
2	7.95703E-06	Truncating
1	3.97842E-06	Truncating
2	7.07489E-06	Truncating
2	7.95988E-06	Truncating
2	7.07524E-06	Truncating
2	7.07439E-06	Truncating
1	3.97959E-06	Truncating
1	3.9807E-06	Truncating
1	3.18471E-05	Truncating
1	3.98375E-06	Truncating
1	3.98115E-06	Truncating
4	1.5912E-05	Truncating
1	3.99652E-06	Truncating
1	5.00691E-06	Truncating
2	9.18063E-06	Truncating
3	1.1054E-05	Truncating
1	3.98168E-06	Truncating
4	1.4146E-05	Truncating
1	3.97848E-06	Truncating
2	7.07279E-06	Truncating
2	7.96159E-06	Truncating
1	3.18451E-05	Truncating
1	4.00131E-06	Truncating
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12	4.25988E-05	Truncating
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1	3.98286E-06	Truncating
1	3.18552E-05	Truncating
2	7.08185E-06	Truncating
2	7.96641E-06	Truncating
1	3.18532E-05	Truncating
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1	3.98791E-06	Truncating
1	3.99457E-06	Truncating
1	4.02534E-06	Truncating
2	7.95469E-06	Truncating
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1	3.97886E-06	Truncating
1	4.84698E-06	Truncating
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2	7.95393E-06	Missense
3	9.55231E-05	Missense
1	3.97697E-06	Missense
1	3.97687E-06	Missense
1	3.97697E-06	Missense
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14	4.94951E-05	Missense
7	2.78388E-05	Missense
7	2.78401E-05	Missense
4	1.59082E-05	Missense
1	3.97738E-06	Missense
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1	3.18451E-05	Missense
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1	3.97776E-06	Missense
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1	3.97791E-06	Missense
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1	3.18918E-05	Missense



1	3.97681E-06	Missense
11	3.88921E-05	Missense
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1	3.97665E-06	Missense
3	1.19301E-05	Missense
1	3.97671E-06	Missense
4	1.59065E-05	Missense
1	3.97643E-06	Missense
1	3.9764E-06	Missense
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1	3.97643E-06	Missense
1	3.97627E-06	Missense
1	3.9763E-06	Missense
1	3.97633E-06	Missense
1	3.97633E-06	Missense
1	3.97655E-06	Missense
209	0.00073908	Missense
1	3.97725E-06	Missense
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1	3.98203E-06	Missense
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1	3.98854E-06	Missense
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1	3.99179E-06	Missense
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1	3.9775E-06	Missense
2	7.95488E-06	Missense
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3	1.19325E-05	Missense
3	1.19321E-05	Missense
1	3.97763E-06	Missense
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1	3.18512E-05	Missense
1	3.97814E-06	Missense
1	3.97814E-06	Missense
19	7.55906E-05	Missense
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1	3.9775E-06	Missense
1	3.1841E-05	Missense
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1	3.97731E-06	Missense
1	3.97735E-06	Missense
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36	0.000127307	Missense
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1	3.97795E-06	Missense

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6	2.38696E-05	Missense
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1	3.97829E-06	Missense
2	7.95659E-06	Missense
1	3.18613E-05	Missense
1	3.97858E-06	Missense
1	3.97864E-06	Missense
9	3.58081E-05	Missense
24	8.48975E-05	Missense
2	7.95805E-06	Missense
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5	1.76837E-05	Missense
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1	3.98064E-06	Missense
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2	7.96267E-06	Missense
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1	3.98572E-06	Missense
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1	3.98099E-06	Missense
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1	3.98587E-06	Missense
8	3.1888E-05	Missense
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1	3.98858E-06	Missense
1	3.99109E-06	Missense
1	3.98238E-06	Missense
16	5.66296E-05	Missense
10	3.539E-05	Missense
1	3.98057E-06	Missense
7	2.78638E-05	Missense
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8	2.83054E-05	Missense
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34	0.000120242	Missense
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1	3.98216E-06	Missense
1	3.98689E-06	Missense
4	1.41722E-05	Missense
1	3.98797E-06	Missense
1	3.99128E-06	Missense
1	3.99837E-06	Missense
1	4.00237E-06	Missense
1	4.00468E-06	Missense
2	9.63382E-06	Missense
4	1.92515E-05	Missense
1	4.66553E-06	Missense
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11	4.99478E-05	Missense
2	7.84751E-06	Missense
4	1.77686E-05	Missense
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1	4.19396E-06	Missense
2	7.41191E-06	Missense
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2	7.32907E-06	Missense
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1	4.11906E-06	Missense
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73	0.000264952	Missense
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2	7.9621E-06	Missense
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1	3.97962E-06	Missense
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9	3.1923E-05	Missense
25	8.86751E-05	Missense
23	9.16883E-05	Missense
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3	1.19575E-05	Missense
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13	5.17986E-05	Missense
1	3.98451E-06	Missense
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2	7.96578E-06	Missense
24	8.4978E-05	Missense
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1	3.98387E-06	Missense
4	1.59374E-05	Missense
1	3.98279E-06	Missense
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12	4.78023E-05	Missense
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2	7.08255E-06	Missense
18	6.37371E-05	Missense
1	3.98394E-06	Missense
2	7.96622E-06	Missense
2	7.9654E-06	Missense
1	3.98276E-06	Missense
1	3.98308E-06	Missense
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1	3.98397E-06	Missense
1	3.98302E-06	Missense
1	3.98308E-06	Missense
1	3.98365E-06	Missense



7	2.78896E-05	Missense
1	3.98413E-06	Missense
1	3.98432E-06	Missense
45	0.000159362	Missense
6	2.12454E-05	Missense
1	3.98422E-06	Missense
1	3.98422E-06	Missense
1	3.98403E-06	Missense
1	3.98346E-06	Missense
1	3.98448E-06	Missense
1	3.98343E-06	Missense
1	3.98257E-06	Missense
10	3.98406E-05	Missense
1	3.98248E-06	Missense
1	3.98257E-06	Missense
1	3.98235E-06	Missense
1	3.98191E-06	Missense
925	0.003274012	Missense
6	2.38897E-05	Missense
1	3.98162E-06	Missense
4	1.59224E-05	Missense
1	3.97991E-06	Missense
1	3.97937E-06	Missense
1	3.97928E-06	Missense
1	3.97928E-06	Missense
1	3.97972E-06	Missense
1	3.97943E-06	Missense
1	3.98356E-06	Missense
2	7.08135E-06	Missense
6	2.38855E-05	Missense
2	7.96033E-06	Missense
3	1.1945E-05	Missense
31	0.000123377	Missense
2	7.95982E-06	Missense
33	0.000116751	Missense
1	3.97937E-06	Missense
1	3.97931E-06	Missense
1	3.97953E-06	Missense
11	4.37766E-05	Missense
172	0.000608376	Missense
1	3.97845E-06	Missense
6	2.3866E-05	Missense
1	3.97735E-06	Missense

10	3.53582E-05	Missense
1	3.97706E-06	Missense
1	3.97665E-06	Missense
3	1.19305E-05	Missense
2	7.95418E-06	Missense
19	7.5575E-05	Missense
8	3.18246E-05	Missense
2	7.95577E-06	Missense
4	1.59131E-05	Missense
1	3.97912E-06	Missense
4	1.59256E-05	Missense
3	1.19461E-05	Missense
5	1.99434E-05	Missense
4	1.59603E-05	Missense
1	3.20307E-05	Missense
2	7.98339E-06	Missense
15	5.99195E-05	Missense
1	3.99367E-06	Missense
5	1.77549E-05	Missense
3	1.19813E-05	Missense
1	3.19101E-05	Missense
23	8.15701E-05	Missense
2	7.97849E-06	Missense
1	3.99023E-06	Missense
1	3.98969E-06	Missense
2	7.97569E-06	Missense
1	3.98645E-06	Missense
2	7.96768E-06	Missense
2	7.96578E-06	Missense
1	3.98048E-06	Missense
314	0.001110899	Missense
2	7.95716E-06	Missense
2	7.07529E-06	Missense
1	3.97893E-06	Missense
1	3.97814E-06	Missense
6	2.12185E-05	Missense
7	2.4756E-05	Missense
1	3.97731E-06	Missense
1	3.97735E-06	Missense
1	3.97728E-06	Missense
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17	6.01115E-05	Missense
2	7.95456E-06	Missense

15	5.30365E-05	Missense
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1	3.97697E-06	Missense
2	7.95361E-06	Missense
1	3.97671E-06	Missense
2	7.95374E-06	Missense
1	3.97716E-06	Missense
2	7.95456E-06	Missense
1	3.97776E-06	Missense
647	0.002287917	Missense
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10	3.97924E-05	Missense
1	3.98143E-06	Missense
108	0.000430176	Missense
10	3.98311E-05	Missense
1	3.98311E-06	Missense
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1	4.0281E-06	Missense
1	4.0307E-06	Missense
3	1.07336E-05	Missense
7	2.82172E-05	Missense
2	8.08538E-06	Missense
1	4.03978E-06	Missense
1	3.97769E-06	Missense
1	3.97753E-06	Missense
1	3.97747E-06	Missense
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2	7.95482E-06	Missense
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1	3.97738E-06	Missense
44	0.000155583	Missense
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3	1.19323E-05	Missense
2	7.07149E-06	Missense
1	3.97738E-06	Missense
5	1.98869E-05	Missense
1	3.18492E-05	Missense
1	3.97735E-06	Missense
2	7.95469E-06	Missense
5	1.98864E-05	Missense

1	3.97741E-06	Missense
4	1.4144E-05	Missense
1	3.18492E-05	Missense
1	3.9775E-06	Missense
1	3.97763E-06	Missense
1	3.97769E-06	Missense
7	2.47572E-05	Missense
2	7.07584E-06	Missense
5	3.00181E-05	Missense
1	3.18979E-05	Missense
1	6.0112E-06	Missense
1	5.63253E-06	Missense
1	5.63253E-06	Missense
1	5.44692E-06	Missense
1	5.35383E-06	Missense
2	1.05864E-05	Missense
7	2.95735E-05	Missense
41	0.000167968	Missense
21	8.50464E-05	Missense
1437	0.005801466	Missense
3	1.38394E-05	Missense
1	4.64192E-06	Missense
1	4.63603E-06	Missense
5	2.32368E-05	Missense
2	9.42258E-06	Missense
4	1.90233E-05	Missense
2	9.71978E-06	Missense
3	1.47387E-05	Missense
1	3.1902E-05	Missense
2	1.00264E-05	Missense
1	5.10386E-06	Missense
1609	0.008041944	Missense
1	5.99621E-06	Missense
2	1.21868E-05	Missense
3	1.94823E-05	Missense
1	3.19061E-05	Missense
9	7.65007E-05	Missense
1	9.21167E-06	Missense
1	1.14257E-05	Missense
3	3.42857E-05	Missense
3	3.62476E-05	Missense

**For full list of included truncating variants see:** van Lint, F. H. M. et al. Arrhythmogenic Right Ventri  
**For full list of missense variants included see:** Supplementary File 2.

ricular Cardiomyopathy-Associated Desmosomal Variants Are Rarely De Novo. Circ Genom Precis

Med 12, e002467 (2019).

<b>Transcript Consequence</b>	<b>Protein Consequence</b>	<b>MAF</b>
NM_004572.3:c.235C>T	NP_004563.2:p.Arg79Ter	2.08039E-05
NM_004572.3:c.390C>G	NP_004563.2:p.Tyr130Ter	3.47E-06
NM_004572.3:c.445G>T	NP_004563.2:p.Glu149Ter	3.47E-06
NM_004572.3:c.499C>T	NP_004563.2:p.Gln167Ter	3.47E-06
NM_004572.3:c.533dup	NP_004563.2:p.His179AlafsTer37	6.93E-06
NM_004572.3:c.837_838del	NP_004563.2:p.Val280HisfsTer55	3.47E-06
NM_004572.3:c.971_972insT	NP_004563.2:p.Ala325GlyfsTer11	3.47E-06
NM_004572.3:c.975_976insAGGC	NP_004563.2:p.Ala326ArgfsTer29	3.47E-06
NM_004572.3:c.1063C>T	NP_004563.2:p.Arg355Ter	3.47E-06
NM_004572.3:c.1237C>T	NP_004563.2:p.Arg413Ter	1.04019E-05
NM_004572.3:c.1451del	NP_004563.2:p.Leu484TrpfsTer36	3.47E-06
NM_004572.3:c.1579del	NP_004563.2:p.Leu527Ter	6.93E-06
NM_004572.3:c.1677_1678insT	NP_004563.2:p.Gly560TrpfsTer12	3.47E-06
NM_004572.3:c.1840del	NP_004563.2:p.Leu614SerfsTer42	3.47E-06
NM_004572.3:c.1912C>T	NP_004563.2:p.Gln638Ter	6.93E-06
NM_004572.3:c.1951C>T	NP_004563.2:p.Arg651Ter	6.93E-06
NM_004572.3:c.2203delinsT	NP_004563.2:p.Arg735Ter	4.5075E-05
NM_004572.3:c.2198_2202del	NP_004563.2:p.His733ProfsTer8	1.38692E-05
NM_004572.3:c.2509del	NP_004563.2:p.Ser837ValfsTer94	6.93E-06
NM_004572.3:c.14G>A	NP_004563.2:p.Gly5Asp	2.08039E-05
NM_004572.3:c.19C>T	NP_004563.2:p.Pro7Ser	3.47E-06
NM_004572.3:c.29A>G	NP_004563.2:p.Tyr10Cys	1.38692E-05
NM_004572.3:c.31G>T	NP_004563.2:p.Gly11Cys	1.04019E-05
NM_004572.3:c.50T>A	NP_004563.2:p.Leu17Gln	3.47E-06
NM_004572.3:c.68G>A	NP_004563.2:p.Gly23Glu	1.38692E-05
NM_004572.3:c.77A>G	NP_004563.2:p.Asp26Gly	4.5075E-05
NM_004572.3:c.82T>G	NP_004563.2:p.Ser28Ala	7.62808E-05
NM_004572.3:c.87C>G	NP_004563.2:p.Ser29Arg	7.62808E-05
NM_004572.3:c.92C>A	NP_004563.2:p.Ala31Glu	7.62808E-05
NM_004572.3:c.97C>T	NP_004563.2:p.Pro33Ser	5.5477E-05
NM_004572.3:c.146A>G	NP_004563.2:p.Gln49Arg	1.04019E-05
NM_004572.3:c.154A>G	NP_004563.2:p.Lys52Glu	1.04019E-05
NM_004572.3:c.173A>G	NP_004563.2:p.Glu58Gly	3.47E-06
NM_004572.3:c.176A>G	NP_004563.2:p.Gln59Arg	3.47E-06
NM_004572.3:c.184C>A	NP_004563.2:p.Gln62Lys	0.000436881
NM_004572.3:c.193G>T	NP_004563.2:p.Ala65Ser	2.77385E-05
NM_004572.3:c.194C>T	NP_004563.2:p.Ala65Val	1.04019E-05
NM_004572.3:c.202G>A	NP_004563.2:p.Gly68Ser	6.93E-06
NM_004572.3:c.208A>G	NP_004563.2:p.Ser70Gly	3.47E-06
NM_004572.3:c.212C>T	NP_004563.2:p.Ser71Phe	2.08039E-05
NM_004572.3:c.214G>T	NP_004563.2:p.Val72Leu	3.12058E-05
NM_004572.3:c.250C>T	NP_004563.2:p.Pro84Ser	1.04019E-05



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NM_004572.3:c.265A>T	NP_004563.2:p.Asn89Tyr	1.73366E-05
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NM_004572.3:c.307C>A	NP_004563.2:p.Pro103Thr	0.000263516
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NM_004572.3:c.349G>A	NP_004563.2:p.Ala117Thr	3.47E-06
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NM_004572.3:c.368G>T	NP_004563.2:p.Trp123Leu	3.47E-06
NM_004572.3:c.406G>A	NP_004563.2:p.Val136Met	3.46731E-05
NM_004572.3:c.406G>T	NP_004563.2:p.Val136Leu	2.08039E-05
NM_004572.3:c.409G>A	NP_004563.2:p.Glu137Lys	3.47E-06
NM_004572.3:c.414A>T	NP_004563.2:p.Glu138Asp	2.08039E-05
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NM_004572.3:c.426G>T	NP_004563.2:p.Arg142Ser	6.93E-06
NM_004572.3:c.428A>G	NP_004563.2:p.His143Arg	3.47E-06
NM_004572.3:c.437G>A	NP_004563.2:p.Arg146Lys	3.47E-06
NM_004572.3:c.449T>G	NP_004563.2:p.Ile150Ser	3.47E-06
NM_004572.3:c.454C>T	NP_004563.2:p.Pro152Ser	6.93E-06
NM_004572.3:c.457G>A	NP_004563.2:p.Asp153Asn	2.77385E-05
NM_004572.3:c.464G>C	NP_004563.2:p.Ser155Thr	6.24116E-05
NM_004572.3:c.467C>T	NP_004563.2:p.Pro156Leu	1.04019E-05
NM_004572.3:c.473G>A	NP_004563.2:p.Arg158Lys	1.38692E-05
NM_004572.3:c.484A>G	NP_004563.2:p.Thr162Ala	5.89443E-05
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NM_004572.3:c.487C>A	NP_004563.2:p.His163Asn	4.85423E-05
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NM_004572.3:c.548G>A	NP_004563.2:p.Ser183Asn	6.93E-06
NM_004572.3:c.553C>T	NP_004563.2:p.Arg185Trp	3.47E-06
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NM_004572.3:c.586C>T	NP_004563.2:p.Arg196Cys	3.47E-06
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NM_004572.3:c.610C>T	NP_004563.2:p.Arg204Cys	1.73366E-05
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NM_004572.3:c.613G>A	NP_004563.2:p.Ala205Thr	6.93E-06
NM_004572.3:c.620C>G	NP_004563.2:p.Thr207Ser	3.47E-06
NM_004572.3:c.625A>C	NP_004563.2:p.Ser209Arg	3.47E-06

NM_004572.3:c.626G>A	NP_004563.2:p.Ser209Asn	3.47E-06
NM_004572.3:c.629G>A	NP_004563.2:p.Arg210Lys	3.47E-06
NM_004572.3:c.634C>T	NP_004563.2:p.Arg212Cys	6.93E-06
NM_004572.3:c.635G>A	NP_004563.2:p.Arg212His	3.47E-06
NM_004572.3:c.637C>T	NP_004563.2:p.His213Tyr	3.47E-06
NM_004572.3:c.659A>G	NP_004563.2:p.Gln220Arg	3.47E-06
NM_004572.3:c.671G>T	NP_004563.2:p.Gly224Val	3.47E-06
NM_004572.3:c.681C>G	NP_004563.2:p.Ser227Arg	1.04019E-05
NM_004572.3:c.682G>A	NP_004563.2:p.Asp228Asn	6.93E-06
NM_004572.3:c.697A>G	NP_004563.2:p.Ser233Gly	3.47E-06
NM_004572.3:c.706G>T	NP_004563.2:p.Ala236Ser	0.000183767
NM_004572.3:c.713C>T	NP_004563.2:p.Pro238Leu	3.47E-06
NM_004572.3:c.725C>T	NP_004563.2:p.Thr242Met	5.89443E-05
NM_004572.3:c.728A>G	NP_004563.2:p.Tyr243Cys	3.47E-06
NM_004572.3:c.730C>G	NP_004563.2:p.Pro244Ala	3.47E-06
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