

Therapeutic efficacy of AAV-mediated restoration of PKP2 in arrhythmogenic cardiomyopathy

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Table S1: Quantitative PCR primers

Gene (Species)	Forward sequence (5'->3')	Reverse sequence (5'->3')
<i>PKP2</i> (Human)	TGCTAAAGGCTGGCACAA	TAATCGCTGTGCGTGTAGTG
<i>JUP</i> (Human)	ACCAGGAGAGCAAGCTGAT	CTCCACAATGGCAGGCTTATT
<i>DSP</i> (Human)	GCACCAGCAGGATGTACTATT	TCAATTCAGGCTGCACGAT
<i>DSC</i> (Human)	TGGTAGAGTTAACCTGAAAGAGTG	TGGTTCTCAGTGTTGGAAAGT
<i>DSG</i> (Human)	GGAACACAGCAGCTACACTT	ACCATCCCTTCAAGCACTTTAT
<i>ACTN2</i> (Human)	AGTCCTGACGAGAGATGCG	GGGTCATAATGCGGGCAAAT
<i>VIM</i> (Human)	CGTCAGCAATATGAAAGTGTGTGG	GTCTCCGGTACTCAFTFFACTC
<i>DCN</i> (Human)	TGCAGCTAGCCTGAAAGGAC	TTGGCCAGAGAGCCATTGTC
<i>NPPB</i> (Human)	CTCCAGAGACATGGATCCCC	GTTGCGCTGCTCCTGTAAC
<i>GUS</i> (Human)	CCACCTAGAATCTGCTGGCTAC	GTGCCCCGTAGTCGTGATACCAA

Table S2: Antibodies used for Immunofluorescence

Antibody	Catalogue number	Company	Secondary antibody	Antigen Retrieval	Dilution
Plakophilin 2 (PKP2)	ab189323	Abcam	Goat	EDTA	1:100
MYC epitope tag (MYC)	2276S	Cell Signaling Technology	Mouse	EDTA	1:100
A Actinin (ACTN2)	HPA008315	Sigma Aldrich	Rabbit	EDTA	1:100
Vimentin (VIM)	sc-373717	Santa Cruz	Mouse	EDTA	1:250
Desmin (DES)	AF3844	R&D Systems	Goat	EDTA	1:50
Desmoplakin (DSP)	ab71690	Abcam	Rabbit	Citrate	1:100

β catenin (β -CAT)		Cell Signaling Technology	Rabbit	EDTA	1:100
tdTomato	Ab8181	SciGen	Goat	EDTA	1:100

Table S3: Antibodies used for western blot

Antibody	Catalogue number	Company	Secondary antibody	Dilution
Plakophilin 2 (PKP2)	ab189323	Abcam	Goat	1:800
Plakophilin 2 (PKP2)	610788	BD Transduction Laboratories	Mouse	1:1000
Plakoglobin (JUP)	sc398183	Santa Cruz	Mouse	1:1000
Desmoplakin (DSP)	ab71690	Abcam	Rabbit	1:1000
Desmoglein (DSG)	61002	Progen	Mouse	1:100
Desmocollin (DSC)	32-6200	Thermo Fisher Scientific	Mouse	1:250
MYC epitope tag (MYC)	2276S	Cell Signaling Technology	Mouse	1:1000
N-cadherin (NCAD)	13116S	Cell Signaling Technology	Rabbit	1:1000
α -catenin (α -cat)	C2081	Sigma Aldrich	Rabbit	1:1000
Vinculin (VIN)	sc25336	Santa Cruz	Mouse	1:1000
α -tubulin (α -tub)	T5168	Sigma Aldrich	Mouse	1:1000
Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)	MAB374	Millipore	Mouse	1:5000