

Supplementary Materials

Table S1. Nanodrop analysis of total RNA (Figures 1, 2, and 5). Data are represented as mean \pm SEM.

	Concentration (ng/ μ L)	260/280 ratio
hiPSC-WT (N=4)	438.00 \pm 16.57	2.06 \pm 0.01
hiPSC-A420P (N=4)	418.75 \pm 29.78	2.06 \pm 0.01
iCM-WT (N=4)	374.50 \pm 69.48	2.04 \pm 0.03
iCM-A420P (N=4)	441.75 \pm 34.67	2.05 \pm 0.01

Table S2. Primer sequences used in RT-qPCR.

Primer Name	Primer Sequence (5'→3')
Human <i>HPRT1</i> Forward	TGGACAGGACTGAACGTCTT
Human <i>HPRT1</i> Reverse	TCCAGCAGGTCAGCAAAGAA
Human <i>MYH6</i> Forward	CTCCGTGAAGGGATAACCAGG
Human <i>MYH6</i> Reverse	TTCACAGTCACCGTCTTCCC
Human <i>TNNT2</i> Forward	CTGCTGTTCTGAGGGAGAGC
Human <i>TNNT2</i> Reverse	CACCAAGTTGGGCATGAACG
Human <i>SOD1</i> Forward	ACTGGTGGTCCATGAAAAAGC
Human <i>SOD1</i> Reverse	GGGCGATCCCAATTACACCA
Human <i>NFE2L2</i> Forward	AGGTTGCCCACATTCCCAAA
Human <i>NFE2L2</i> Reverse	ACGTAGCCGAAGAAACCTCA
Human <i>HMOX1</i> Forward	CTCTACCGCTCCCGCATGAAC
Human <i>HMOX1</i> Reverse	AAGCCCTGGTGCCCGTGAG
Human <i>NOX4</i> Forward	GGGAAGAGGTCATTTCCGTGA
Human <i>NOX4</i> Reverse	GAGCCAGATGAACCCAAGCA

Table S3. Volumes and concentrations of injections for Seahorse analysis, with final concentrations in parentheses.

Mito Stress Test	
Injection 1	20 μ l of 25 μ M Oligomycin (2.5 μ M)
Injection 2	22 μ l of 20 μ M FCCP (2.0 μ M)
Injection 3	25 μ l of 5 μ M Rotenone/Antimycin A (5 μ M)

Video S1: Beating iCM-WT.

Video S2: Beating iCM-A420P.