

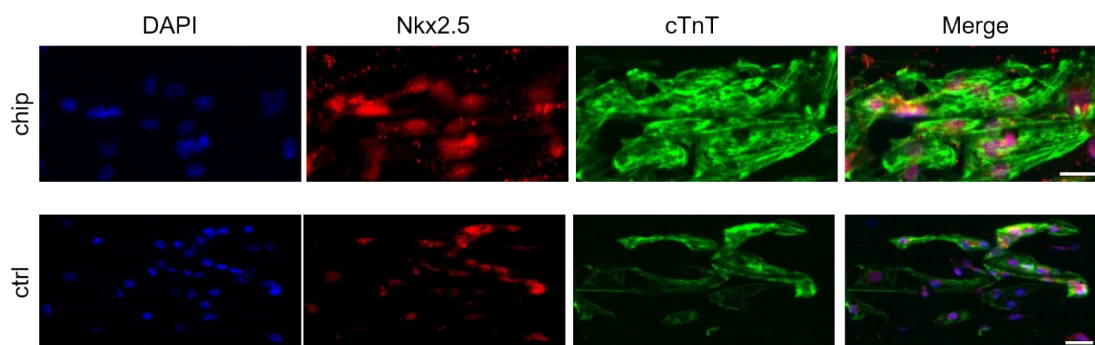


Figure S1 Confocal microscopy of hiPSC-CMs immunostained with Nkx2.5 and cTnT antibodies. The immunostaining of hiPSC-CMs on chip (upper panel) and flat PDMS (lower panel) Red: Nkx2.5, Green: cTnT. Scale bar: 50 μ m.

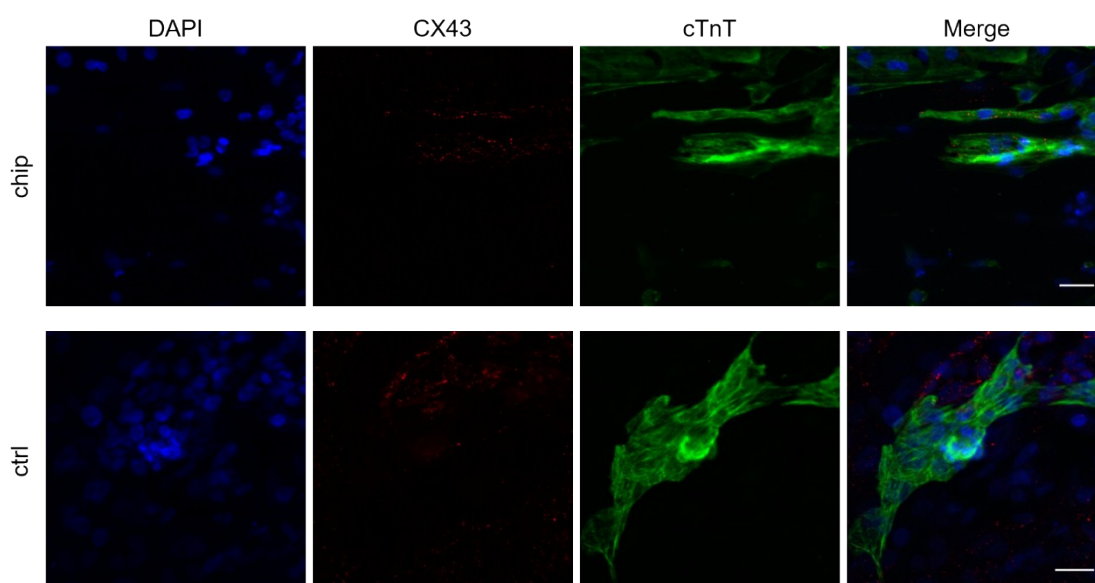


Figure S2 Confocal microscopy of hiPSC-CMs immunostained with CX43 and cTnT antibodies. The immunostaining of hiPSC-CMs on chip (upper panel) and flat PDMS (lower panel) Red: Connexin43, Green: cTnT. Scale bar: 50 μ m.

Primer	Sequence (5'→3')
GAPDH-F	GTGGACCTGACCTGCCGTCT
GAPDH-R	GGAGGAGTGGGTGTCGCTGT
TNNT3-F	TTCACCAAAGATCTGCTCCTCGCT
TNNT3-R	TTATTACTGGTGTGGAGTGGGTGTGG
MYH6-F	TCAGCTGGAGGCCAAAGTAAAGGA
MYH6-R	TTCTTGAGCTCTGAGCACTCGTCT
MYH7-F	TCGTGCCTGATGACAAACAGGAGT
MYH7-R	ATACTCGGTCTCGGCAGTGACTTT
TNNI3-F	TGCTTCACAGTGGAGCTGATA
TNNI3-R	GCTGCAATATGCAATGGAGTG
KCNE1-F	ACTCGAACGACCCATTCAACG
KCNE1-R	TTCAACGACATAGCACGACCT
KCNH2-F	CAACCTGGGCGACCAGATAG
KCNH2-R	GGTGTTGGGAGAGACGTTGC
RYR2-F	GGCAGCCCAAGGGTATCTC
RYR2-R	ACACAGCGCCACCTTCATAAT
NKX2.5-F	TTTGCATTCACTCCTGCGGAGACCTA
NKX2.5-R	ACTCATTGCACGCTGCATAATCGC
CTNNB1-F	CATCTACACAGTTTGATGCTGCT
CTNNB1-R	GCAGTTTTGTGTCAGTTCAGGGA
PPARGC1A-F	GCTTTCTGGGTGGACTCAAGT
PPARGC1A-R	GAGGGCAATCCGTCTTCATCC

Table S1. Sequence of primers for qPCR assay.