
Supplementary information

**Glucocorticoid receptor antagonization
propels endogenous cardiomyocyte
proliferation and cardiac regeneration**

In the format provided by the
authors and unedited

Supplementary Table 1. Sequences of the primers used for mouse genotyping analyses.

Gene	Forward primer	Reverse primer
α Myh6-Cre	ATGACAGACAGATCCCTCCTATCTCC	CTCATCACTCGTTGCATCATCGAC
α Myh6-Cre (internal control)	CAAATGTTGCTTGTCTGGTG	GTCAGTCGAGTGCACAGTTT
GR ^{flox}	ATGCCTGCTAGGCAAATGAT	TTCCAGGGCTATAGGAAGCA

Supplementary Table 2. Sequences of the primers used to analyse mRNA levels by real-time (rt)PCR.

Gene	Forward primer	Reverse primer
NR3C1(GR)	TGATGTGGTTGAAAATCTCC	GTAAGGCAGTCATTTCTGATG
TNNT2(cTnT)	AGAGTATTCAACCTGGAG	GAGTTTTGGAGACTTTCTGG
PECAM	CATCGCCACCTTAATAGTTG	CCAGAAACATCATCATAACCG
DDR2	CGAGATCACTTTCCAATCAG	ACAGGATGATGACGATGATAG
NPPA	GAGAGAAAGAAACCAGAGTG	GTCTAGCAGGTTCTTGAAATC
NPPB	AATTCAAGATGCAGAAGCTG	GAATTTTGAGGTCTCTGCTG
ACTA1	GACATCAAAGAGAAGCTGTG	ACTCCATACCGATAAAGGAAG

Supplementary Video Legends

Supplementary Video 1. Time-lapse movie of karyokinesis plus cytokinesis (cell division) in neonatal CMs. This is a representative time-lapse video of neonatal CMs performing karyokinesis plus cytokinesis (cell division). Heart cells were isolated from postnatal-day-1 (P1) mice, cultured in vitro for 48 hours, then labelled with TMRE (green) to identify CMs (see Methods for further details) and imaged for 16 hours at 15 min intervals

Supplementary Video 2. Time-lapse movie of karyokinesis with no cytokinesis (bi-nucleation) in neonatal CMs. This is a representative time-lapse video of P1 CM performing karyokinesis but not cytokinesis (bi-nucleation). Heart cells were isolated from postnatal-day-1 (P1) mice, cultured in vitro for 48 hours, then labelled with TMRE (green) to identify CMs (see Methods for further details) and imaged for 16 hours at 15 min intervals

Supplementary Video 3. Time-lapse movie of karyokinesis plus cytokinesis (cell division) in GR-cKO neonatal CMs. This is a representative time-lapse video of neonatal CMs performing karyokinesis plus cytokinesis (cell division). Heart cells were isolated from postnatal-day-1 (P1) GR-cKO mice, cultured in vitro for 48 hours, then labelled with TMRE (green) to identify CMs (see Methods for further details) and imaged for 16 hours at 15 min intervals

Supplementary Video 4. Time-lapse movie of karyokinesis with no cytokinesis (bi-nucleation) in GR-cKO neonatal CMs. This is a representative time-lapse video of P1 CM performing karyokinesis but not cytokinesis (bi-nucleation). Heart cells were isolated from postnatal-day-1 (P1) GR-cKO mice, cultured in vitro for 48 hours, then labelled with TMRE (green) to identify CMs (see Methods for further details) and imaged for 16 hours at 15 min intervals