Supporting Information

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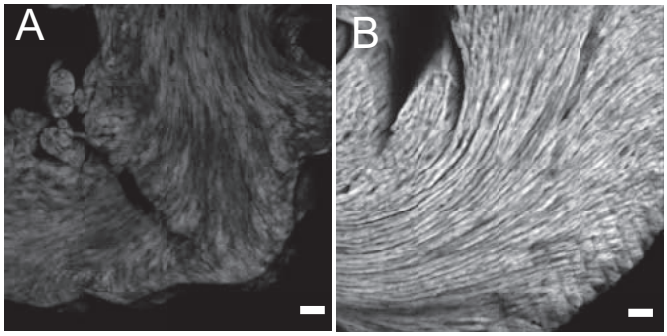

Fig. S1. Developmental expression of the CFP transgene in perinatal ventricles. Thick ventricular sections from neonatal day 1 (*A*) and day 10 (*B*) transgenic animals imaged through a CFP filter with a ×20 immersion objective. Identical settings were used to acquire the two images (Scale bar: 50 microns).

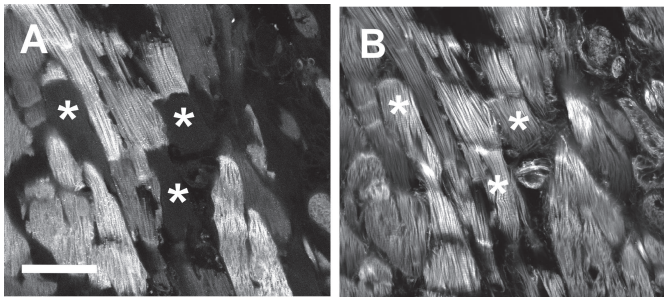

Fig. S2. Myocytes with lowered expression of aMHC are not dead. Confocal images of a single vibratome transverse section from a transgenic TAC heart imaged with a CFP filter (*A*) or a Tritc filter (*B*; Phalloidin), using ×60 oil immersion objectives. ∗ indicates cells that have low levels of CFP and normal cytoskeletons. (Scale bar: 50 microns.)

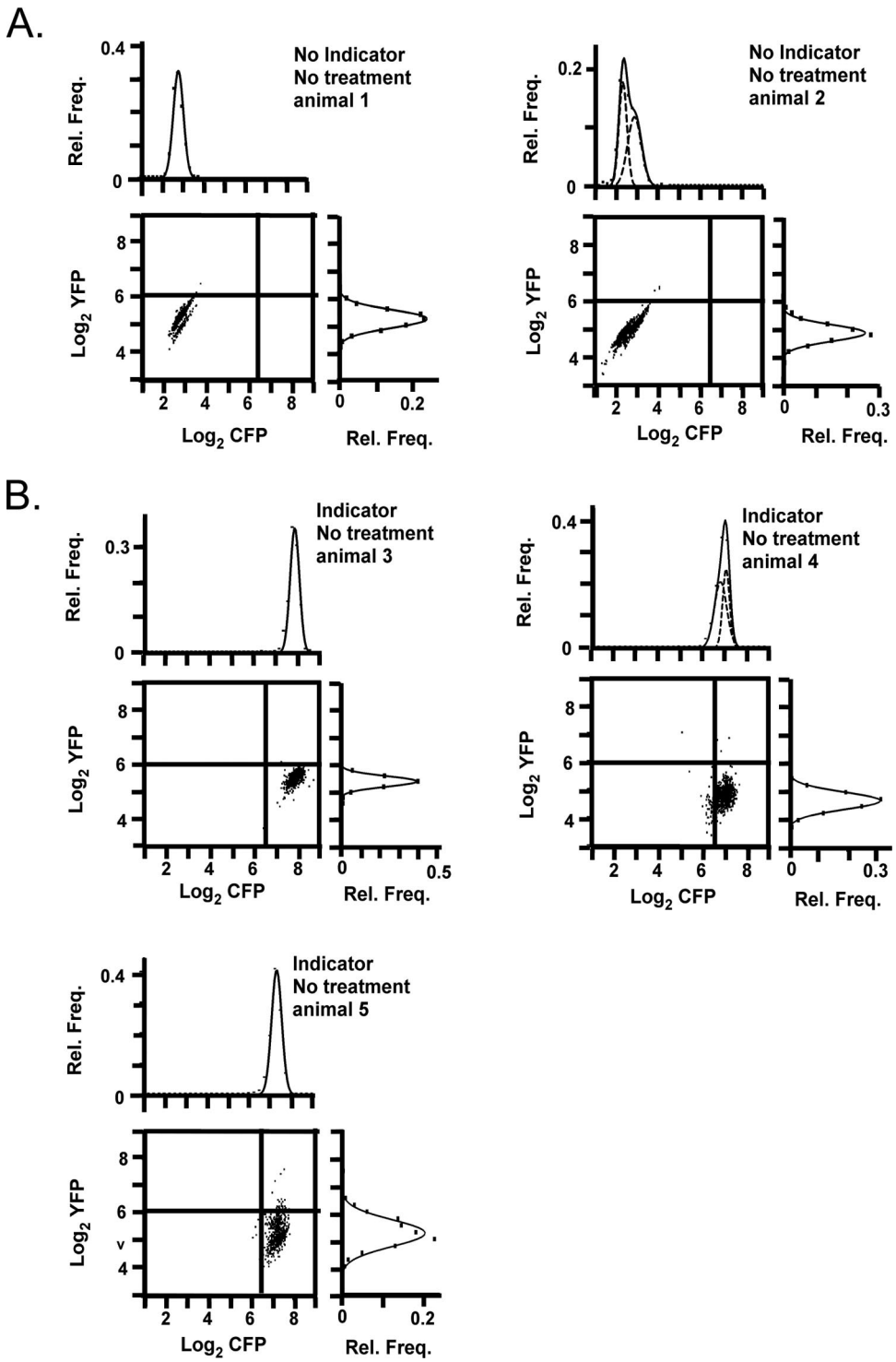

Fig. S3. MHC isoform switching in control animals without TAC. Bivariate scatterplots representing $\log_2$ of average pixel intensity per cell of CFP (*x* axis) and YFP (*y* axis) of ventricular cells in individual animals with no indicator/no treatment (*A*) and indicator/no treatment (*B*). See Fig. 4 for descriptions of individual curves.

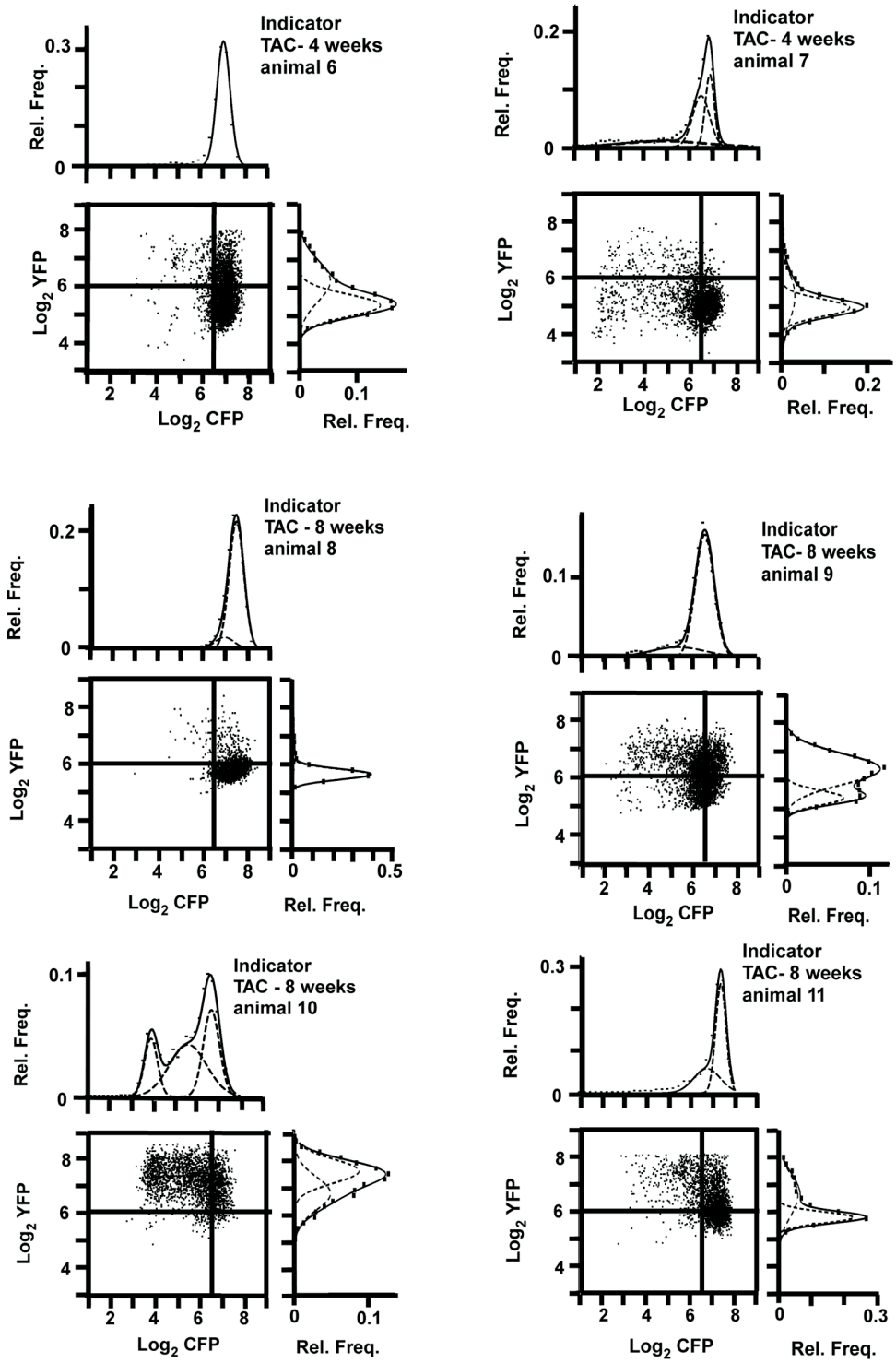

Fig. S4. MHC isoform switching in TAC-treated animals. Bivariate scatterplots representing $\log_2$ of average pixel intensity per cell of CFP (*x* axis) and YFP (*y* axis) of ventricular cells in individual animals with indicator, TAC treatment for 4 or 8 weeks. See Fig. 4 for descriptions of individual curves.

Table S1. Echocardiographic parameters

Parameter	Sham	TAC	*P*
n	6	9	
LVEDD, mm	4.0+/- 0.1	4.5+/- 0.1	0.01
LVESD, mm	1.6+/- 0.1	2.8+/- 0.3	0.006
FS, %	0.55+/-0.10	0.38+/-0.10	0.001
IVS, mm	1.1+/- 0.1	1.1+/- 0.1	NS
PW, mm	1.0+/- 0.1	1.1+/- 0.1	NS
HR, beats/min	650+/- 22	647+/- 20	NS
LVm, mg	154+/- 16	234+/- 16	0.006
mVcfc	4.9+/- 0.3	3.3+/- 0.3	0.003
SPG		72+/- 11	

n, number of animals in each group; LVEDD, left ventricular end diastolic diameter; LVESD, left ventricular end systolic diameter; IVS, interventricular septum; PW, posterior wall; HR, heart rate; FS, fractional shortening; LVm, left ventricular mass; mVcfc, mean velocity of circumferential fiber shortening; SPG, systolic pressure gradient; NS, not significant. Animals were sham- or TAC-treated for 4 weeks.