

Figure S1 related to Figure 1. Characterization of CITED4 expression in the inducible transgenic line. A. Time course of cardiac expression of CITED4-FLAG after induction in the double transgenics. B. Expression of CITED4-FLAG after doxycycline removal.

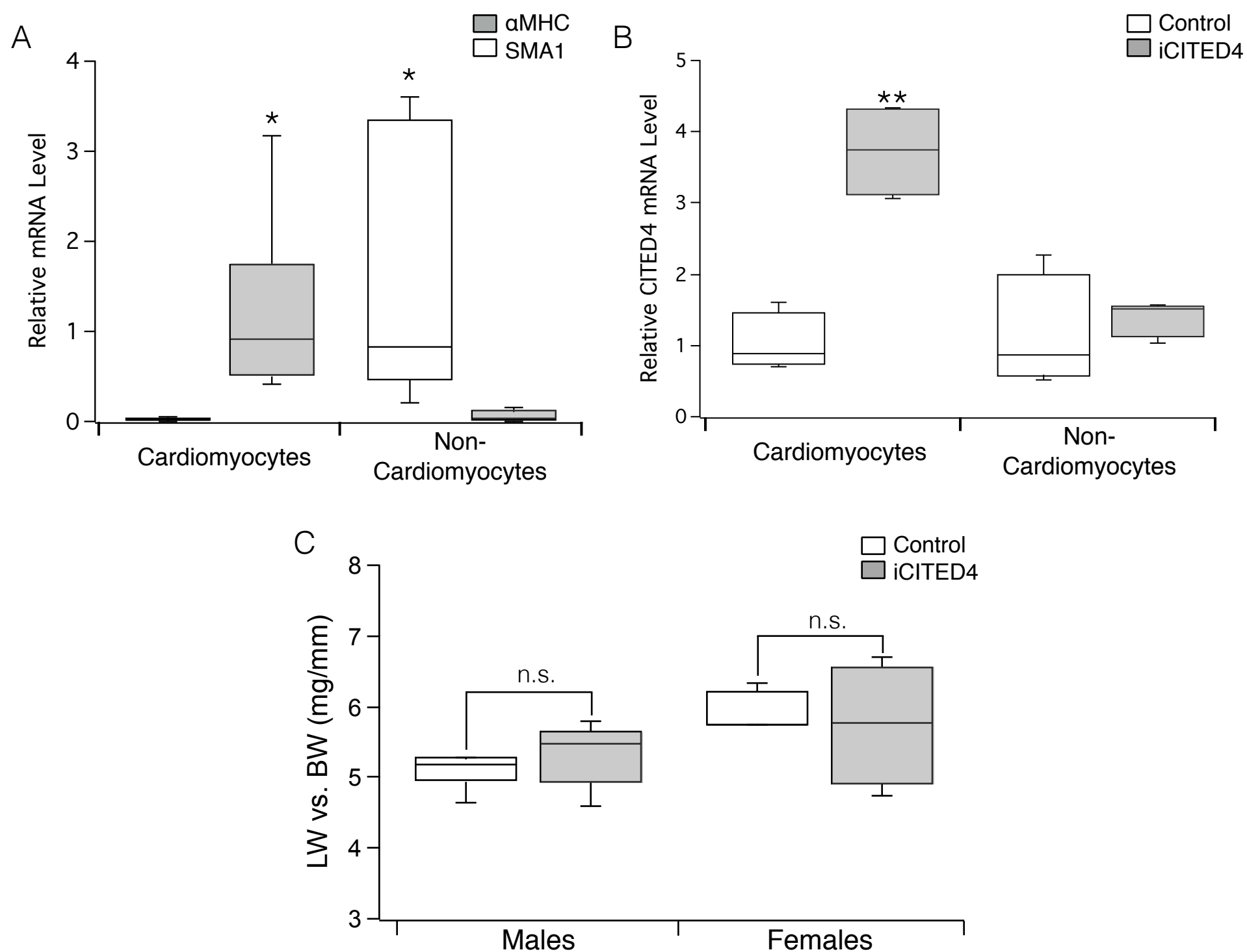


Figure S2 related to Figure 1. Restricted expression of CITED4 is only in adult cardiomyocytes and not other cell types. A. Relative mRNA levels of the α MHC and SMA demonstrate separation of cardiomyocytes and non-cardiomyocytes. B. CITED4 expression is restricted to isolated adult cardiomyocytes, n = 4 mice per group. C. No significant change in lung weights as compared to body weight with CITED4 expression.

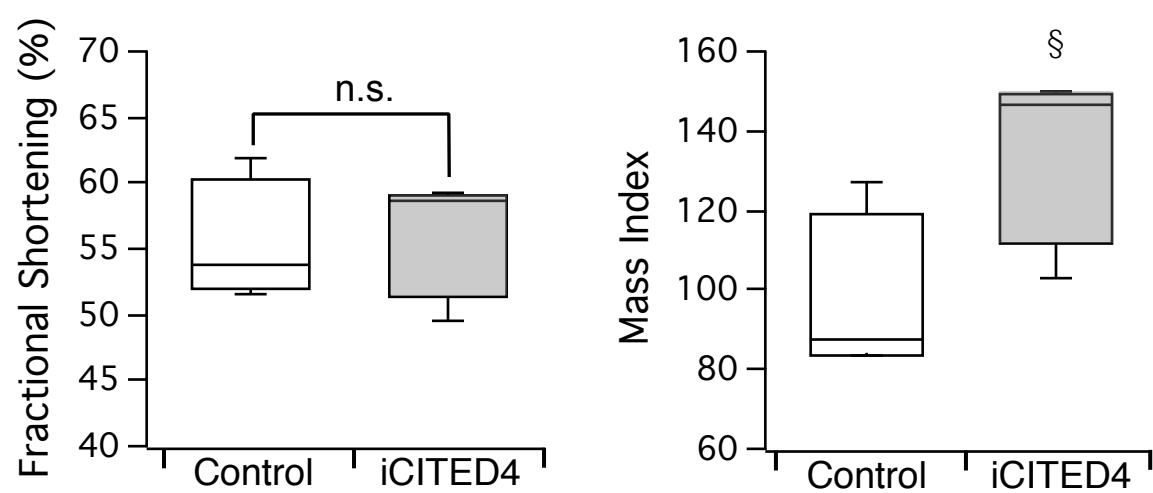


Figure S3 related to Figure 1. Long term expression of CITED4 does not cause dysfunction. Even after 4 months, CITED4 expression results in a trend towards cardiac hypertrophy without cardiac dysfunction. § $p = 0.09$ with a one-tail t-test, $n = 3$ mice per group.

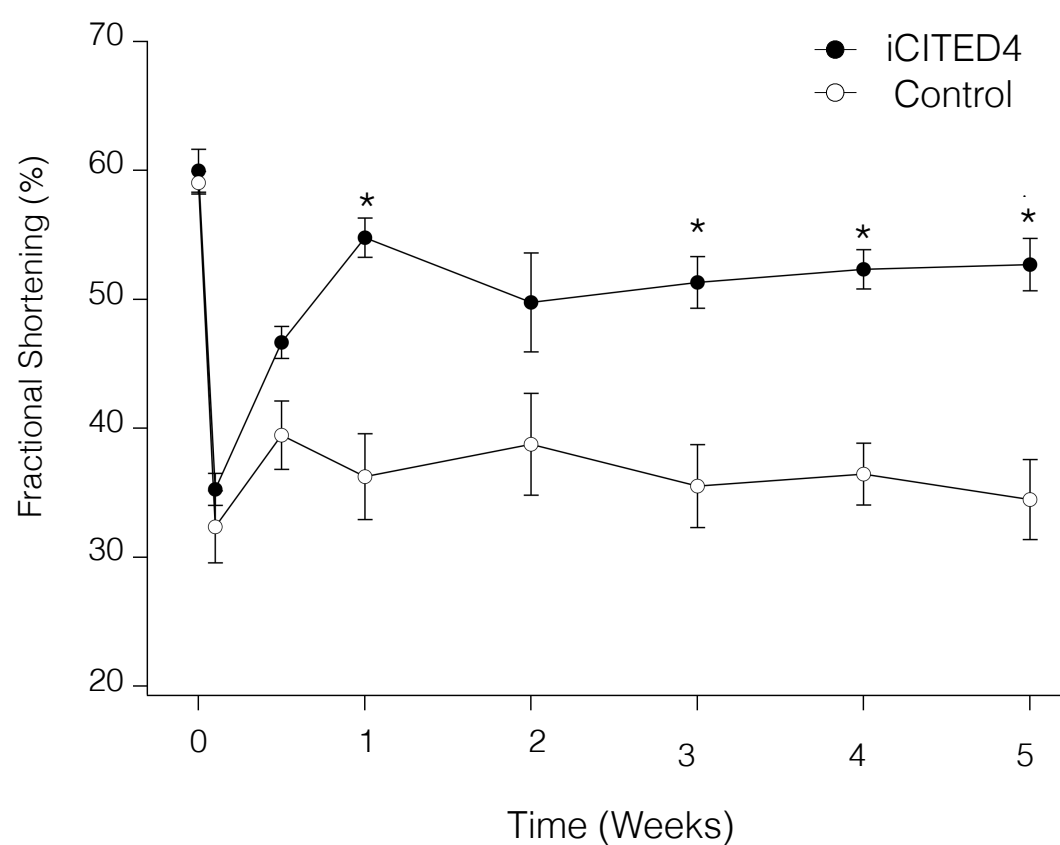


Figure S4 related to Figure 3. Time course of improvement after ischemia and reperfusion injury in CITED4 transgenics. Fractional shortening as a measure for left ventricular function begins to improve approximately 1 week after IRI.

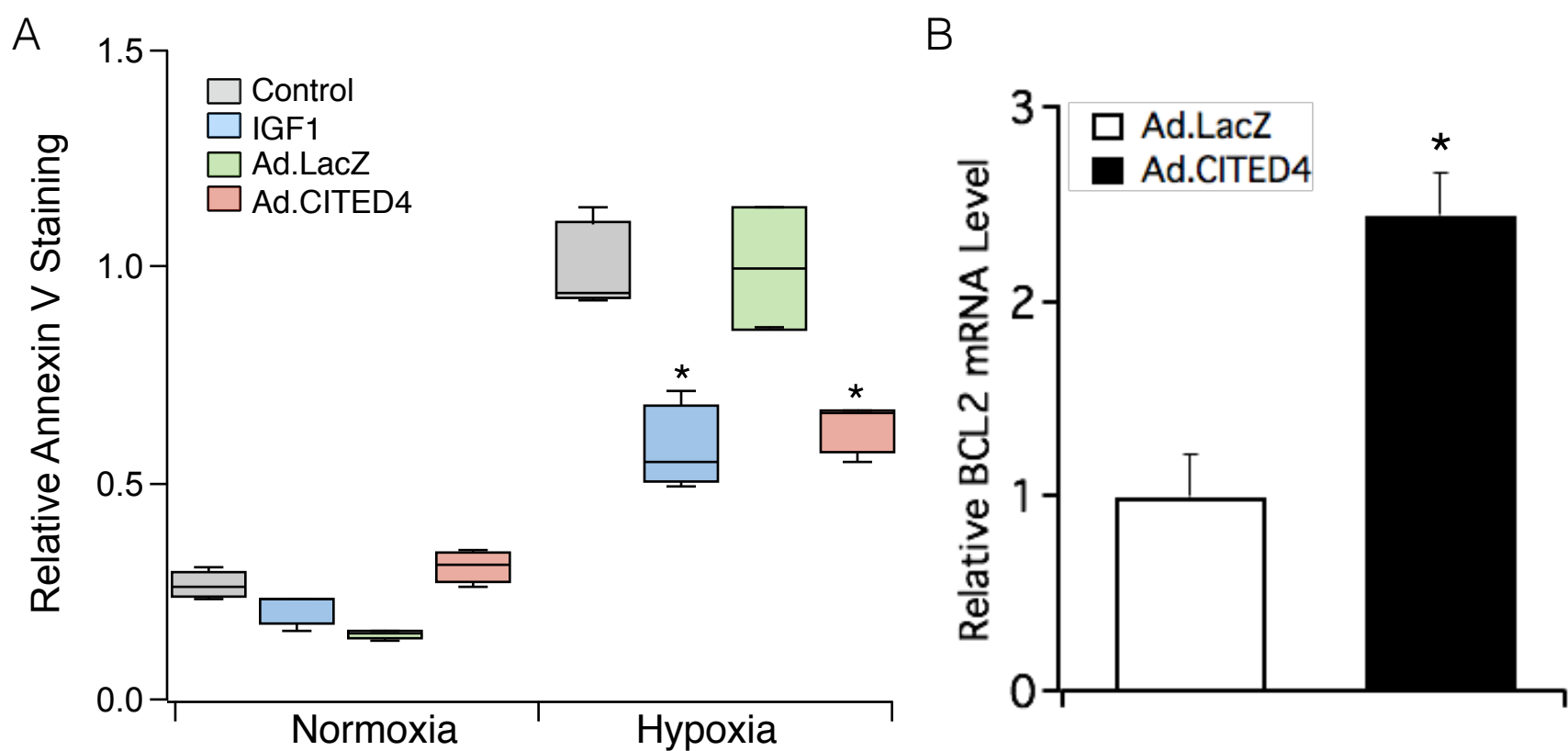


Figure S5 related to Figure 5. CITED4 inhibits apoptosis in NRVMs after hypoxia and reperfusion. A. Annexin V staining demonstrates an induction of apoptosis with hypoxia that is mitigated by expression of CITED4. B. Increased expression of BCL2 mRNA in NRVMs after transduction with adenovirus for CITED4. n = 3 for each condition. *p < 0.05.

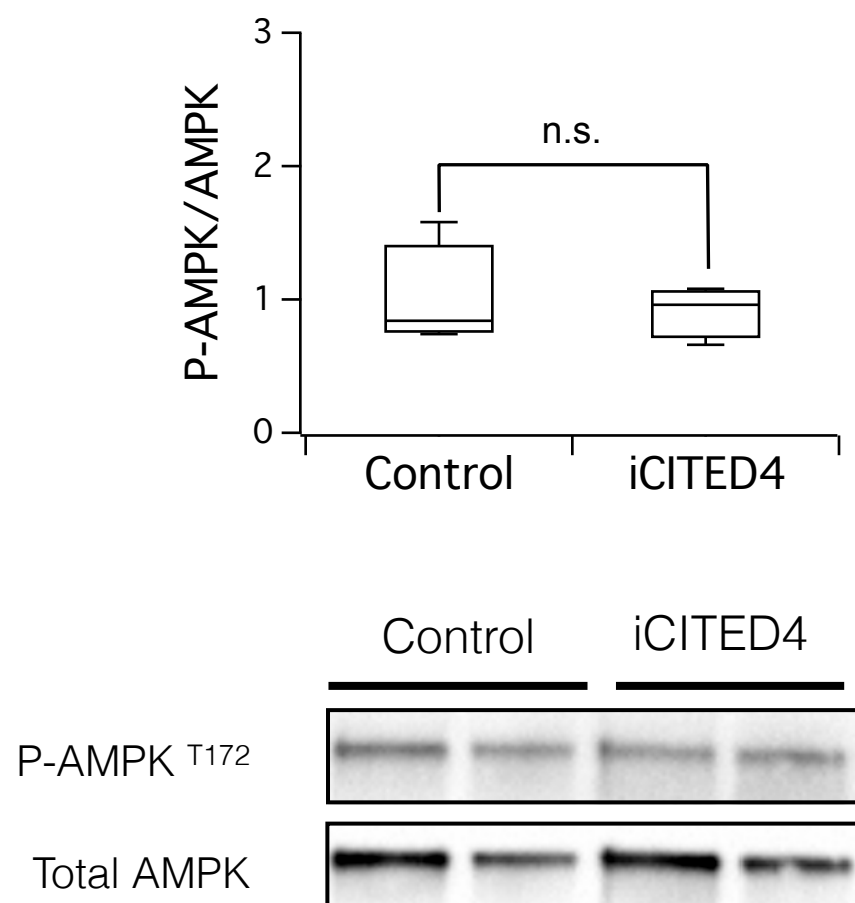


Figure S6 related to Figure 5. There is no change in AMPK activation with cardiac-restricted CITED4 expression after ischemia/reperfusion injury. N = 4 for each group. Significance determined by the student's t-test and n.s. = p-value is not significant.

Table S1

Antibody	Species	Catalog No.	Supplier
Cardiac Troponin T	Goat	ab56357	Abcam
FLAG-HRP	Mouse	A8592	Sigma
mTOR	Rabbit	2972	Cell Signalling
p-AKT (S473)	Rabbit	9271	Cell Signalling
p-mTOR (S2448)	Rabbit	2971	Cell Signalling
GAPDH	Rabbit	2118	Cell Signalling
p-AMPK (T172)	Rabbit	2531	Cell Signalling
P-4E-BP1 (S65)	Rabbit	9451	Cell Signalling
PCM1	Rabbit	HPA023374	Sigma
CITED4	Rabbit	AV37255	Sigma
p62/SQSTM1	Rabbit	5114	Cell Signalling

Table S1. Antibodies used in this study.