

## Major Resources Table

In order to allow validation and replication of experiments, all essential research materials listed in the Methods should be included in the Major Resources Table below. Authors are encouraged to use public repositories for protocols, data, code, and other materials and provide persistent identifiers and/or links to repositories when available. Authors may add or delete rows as needed.

### Animals (in vivo studies)

Species	Vendor or Source	Background Strain	Sex	Persistent ID / URL
WT C57b/6J	Jackson Lab	WT C57b/6J	M	<a href="https://www.jax.org/strain/000664">https://www.jax.org/strain/000664</a>
WT C57b/6N	Jackson Lab	WT C57b/6N	M	<a href="https://www.jax.org/strain/005304">https://www.jax.org/strain/005304</a>
NOX2 <sup>-/-</sup>	Jackson Lab	WT C57b/6J	M	<a href="https://www.jax.org/strain/002365">https://www.jax.org/strain/002365</a>

### Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male	Ser280Ala KI	J Chen Lab	C57b/6J		Publication cited in paper
Parent - Female	Ser280Ala KI	J Chen Lab	C57b/6J		Publication cited in paper
Parent - Male	MMVV-KI	ME Anderson Lab	C57b/6J		Publication cited in paper
Parent - Female	MMVV-KI	ME Anderson Lab	C57b/6J		Publication cited in paper
Parent - Male	CaMKII $\delta$ cardiac-specific KO	JH Brown Lab	Black Swiss	Been crossbred into C57b/6J for more than 9 generations	Publication cited in paper
Parent - Female	CaMKII $\delta$ cardiac-specific KO	JH Brown Lab	Black Swiss	Been crossbred into C57b/6J for more than 9 generations	Publication cited in paper
Parent - Male	CaMKII $\delta$ global KO	JH Brown Lab	C57b/6J		Publication cited in paper
Parent - Female	CaMKII $\delta$ global KO	JH Brown Lab	C57b/6J		Publication cited in paper
Parent - Male	Mito-Grx1-roGFP2	DM Katschinski	C57b/6N	Been crossbred in to C57b/6J for more than 9 generations	Publication cited in paper
Parent - Female	Mito-Grx1-roGFP2	DM Katschinski	C57b/6N	Been crossbred in to C57b/6J for more than 9 generations	Publication cited in paper
Parent - Male	Cyto-Grx1-roGFP2	DM Katschinski	C57b/6N	Been crossbred in to C57b/6J for more than 9 generations	Publication cited in paper
Parent - Female	Cyto-Grx1-roGFP2	DM Katschinski	C57b/6N	Been crossbred in to C57b/6J for more than 9 generations	Publication cited in paper

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
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DOI [to be added]

CaMKII $\delta$	ZYMED Inc	N/A	1:800		<a href="#">Ryanodine receptor phosphorylation at Serine 2030, 2808 and 2814 in rat cardiomyocytes.</a> <b>Huke S, Bers DM.</b> Biochem Biophys Res Commun. 2008 Nov 7;376(1):80-5. doi: 10.1016/j.bbrc.2008.08.084. Epub 2008 Aug 26. PMID:18755143
CTD110.6	Sigma	MABS125	1:500	3083560	<a href="https://www.emdmillipore.com/US/en/product/Anti-O-GlcNAc-Antibody-clone-CTD110.6,MM_NF-MABS1254">https://www.emdmillipore.com/US/en/product/Anti-O-GlcNAc-Antibody-clone-CTD110.6,MM_NF-MABS1254</a>
Mouse IgM	Li-COR	962-32280	1:10000	C70808-03	<a href="https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-mouse-igm-mu-chain-specific-secondary-antibody">https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-mouse-igm-mu-chain-specific-secondary-antibody</a>

### Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Human iPSC-CM	M Mercola Lab	unknown	