

## 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
Wildtype mice	Gene-targeting core at Cincinnati Children's Hospital	C57BL/6	Male & Female	
$\alpha$ MHC-tTA mice	Gene-targeting core at Cincinnati Children's Hospital	C57BL/6	Male & Female	
$\alpha$ MHC-MCUB mice	Gene-targeting core at Cincinnati Children's Hospital	C57BL/6	Male & Female	
Mcub <sup>-/-</sup> mice	European Conditional Mouse Mutagenesis program	C57BL/6	Male & Female	MGI ID: 1914065
FLPe mice	The Jackson Laboratory	C57BL/6	Male & Female	<a href="https://www.jax.org/strain/003946">https://www.jax.org/strain/003946</a>

### Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
$\alpha$ MHC-MCUB tTA mice					
<b>Parent – Male</b>	$\alpha$ MHC-MCUB mice	Gene-targeting core at Cincinnati Children's Hospital	C57BL/6		
<b>Parent – Female</b>	$\alpha$ MHC-tTA mice	Gene-targeting core at Cincinnati Children's Hospital	C57BL/6		
Mcub <sup>fl/fl</sup> mice					
<b>Parent – Male</b>	Mcub <sup>-/-</sup> mice	European Conditional Mouse Mutagenesis program	C57BL/6		MGI ID: 1914065
<b>Parent – Female</b>	FLPe mice	The Jackson Laboratory	C57BL/6		<a href="https://www.jax.org/strain/003946">https://www.jax.org/strain/003946</a>
Mcu <sup>fl/fl</sup> Mcub <sup>fl/fl</sup> mice					
<b>Parent – Male</b>	Mcub <sup>fl/fl</sup> mice		C57BL/6		
<b>Parent – Female</b>	Mcu <sup>fl/fl</sup> mice		C57BL/6		Publication cited in paper

DOI [to be added]

## Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
MCU	Cell Signaling	14997	1:500		<a href="https://www.cellsignal.com/products/primary-antibodies/mcu-d2z3b-rabbit-mab/14997">https://www.cellsignal.com/products/primary-antibodies/mcu-d2z3b-rabbit-mab/14997</a>
MCUb	custom-made from YenZym Antibodies	N/A	1:250		
MICU1	Cell Signaling	12524S	1:500		<a href="https://www.cellsignal.com/products/primary-antibodies/cbara1-micu1-d4p8q-rabbit-mab/12524?site-search-type=Products&amp;N=4294956287&amp;Ntt=12524s&amp;fromPage=plp&amp;_requestid=690731">https://www.cellsignal.com/products/primary-antibodies/cbara1-micu1-d4p8q-rabbit-mab/12524?site-search-type=Products&amp;N=4294956287&amp;Ntt=12524s&amp;fromPage=plp&amp;_requestid=690731</a>
MICU2	Bethyl Laboratories	A300-BL19212	1:500		No commercial link, obtained by contacting Bethyl Laboratories customer service representatives directly
EMRE	Bethyl Laboratories	A300-BL19208	1:500		No commercial link, obtained by contacting Bethyl Laboratories customer service representatives directly
NCLX	Abcam	ab83551	1:500		<a href="https://www.abcam.com/slc24a6-antibody-ab83551.html">https://www.abcam.com/slc24a6-antibody-ab83551.html</a>
OXPHOS cocktail	Abcam	ab110413	1:5000		<a href="https://www.abcam.com/total-oxphos-rodent-wb-antibody-cocktail-ab110413.html">https://www.abcam.com/total-oxphos-rodent-wb-antibody-cocktail-ab110413.html</a>
VDAC	Abcam	ab14734	1:5000		<a href="https://www.abcam.com/vdac1-porin-antibody-20b12af2-ab14734.html">https://www.abcam.com/vdac1-porin-antibody-20b12af2-ab14734.html</a>
GAPDH	Fitzgerald	10R-G109A	1:5000		<a href="https://www.fitzgerald-fii.com/gapdh-antibody-10r-g109a.html">https://www.fitzgerald-fii.com/gapdh-antibody-10r-g109a.html</a>
IRDye® 800CW Goat anti-Rabbit IgG Secondary Antibody	LI-COR Biosciences	926-32211	1:10,000		<a href="https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-rabbit-igg-secondary-antibody">https://www.licor.com/bio/reagents/irdye-800cw-goat-anti-rabbit-igg-secondary-antibody</a>
IRDye® 680RD Goat anti-Mouse IgG Secondary Antibody	LI-COR Biosciences	925-68070	1:10,000		<a href="https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-mouse-igg-secondary-antibody">https://www.licor.com/bio/reagents/irdye-680rd-goat-anti-mouse-igg-secondary-antibody</a>

DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
<p>pLenti CMV/TO SV40 small + Large T (w612-1)</p>	<p>CGATAAGCTTGGGAGTTCGCGTTACATAACTTACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACC            CCCGCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCATTGACGTCA            ATGGGTGGAGTATTTACGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCC            CCTATTGACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCCAGTACATGACCTTATGGGACTTTC            CTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACATCAA            TGGGCGTGGATAGCGGTTTACTCACGGGATTTCAGTCTCCACCCATTGACGTCAATGGGAGTTTG            TTTTGGCACAAAATCAACGGGACTTTCAAAATGTCGTAACAACTCCGCCCATGACGCAAATGGGCG            GTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCTCCCTATCAGTGATAGAGATCTCCCTATCAG            TGATAGAGATCGTCGACTAGTCCAGTGTGGTGGAAATTCTGCAGATATCAACAAGTTTGTACAAAAAAGCA            GGCTTTAAAGGAACCAATTCAGTCGACTGGATCCGCGGCCTCTGAGCTATTCCAGAAGTAGTGAGGAGGC            TTTTTGGAGGCCTAGGCTTTTCAAAAAGCTTTGCAAGATGGATAAAGTTTTAAACAGAGAGGAATCT            TTGCAGCTAATGGACCTTCTAGGTCTTGAAGGAGTGCCTGGGGGAATATTCCTCTGATGAGAAAGGCAT            ATTTAAAAAATGCAAGGAGTTTCATCCTGATAAAGGAGGAGATGAAGAAAAAATGAAGAAAATGAATAC            TCTGTACAAGAAAATGGAAGATGGAGTAAAATATGCTCATCAACCTGACTTTGGAGGCTTCTGGGATGCA            ACTGAGGTATTTGCTTCTTAAATCCTGGTGTGATGCAATGACTGCAACAATGGCCTGAGTGTG            CAAAGAAAATGCTGCTAACTGCATATGCTTGTGTGCTTACTGAGGATGAAGCATGAAAATAGAAAATT            ATACAGGAAAGATCCACTTGTGTGGGTTGATTGCTACTGCTTCGATTGCTTTAGAATGTGGTTTGGACTT            GATCTTTGTGAAGGAACCTTACTTCTGTGGTGTGACATAATTGGACAACTACCTACAGAGATTTAAAGC            TCTAAGGTAAATATAAAATTTTTAAGTGTATAATGTGTTAACTACTGATTCTAATTGTTTGTGATTTT            AGATTCACCTATGGAAGTATGAATGGGAGCAGTGGTGGAAATGCCTTAAATGAGGAAAACCTGTTTTG            CTCAGAAGAAAATGCCATCTAGTGATGATGAGGCTACTGCTGACTCTCAACATTCTACTCTCCAAAAAAG            AAGAGAAAGGTAGAAGACCCCAAGGACTTTCCTTCAGAATTGCTAAGTTTTTTGAGTCATGCTGTGTTTA            GTAATAGAACTCTTGCTTGCTTTGCTATTTACACCACAAAGGAAAAAGCTGCACTGCTATACAAGAAAAT            TATGGAAAAATATTCTGTAACCTTTATAAGTAGGCATAACAGTTATAATCATAACATACTGTTTTTCTT            ACTCCACACAGGCATAGAGTGTCTGCTATTAATAACTATGCTCAAAAATTGTGTACCTTTAGCTTTTTAA            TTTGTAAGGGGTTAATAAGGAATATTTGATGTATAGTGCCTTACTAGAGATCCATTTTCTGTTATTGA            GGAAAGTTTGCCAGGTGGGTTAAAGGAGCATGATTTAATCCAGAAGAAGCAGAGGAAACTAAACAAGTG            TCCTGGAAGCTTGTAACAGAGTATGCAATGGAAACAAAATGTGATGATGTGTTGTTATTGCTGGGATGT            ACTTGAATTTTCAAGTACAGTTTTGAAATGTGTTTAAATGATTAATAAAGAACAGCCAGCCACTATAA            GTACCATGAAAAGCATTATGCAAATGCTGCTATATTTGCTGACAGCAAAAACCAAAAAACCATATGCCAA            CAGGCTGTTGATACTGTTTTAGCTAAAAAGCGGTTGATAGCCTACAATTAAGAGAACAAAATGTTAA            CAAACAGATTTAATGATCTTTTGGATAGGATGGATATAATGTTTGGTTCTACAGGCTCTGCTGACATAGA            AGAATGGATGGCTGGAGTTGCTTGGCTACACTGTTTGTGCCCCAAAATGGATTAGTGGTGTATGACTTT            TAAAATGCATGGTGTACAACATTCCTAAAAAAGATACTGGCTGTTTAAAGGACCAATTGATAGTGGTA            AAATACTAGCAGCTGCTTTGCTTGAATTATGTGGGGGAAAGCTTTAAATGTTAATTTGCCCTTGGGA            CAGGCTGAACCTTTGAGCTAGGAGTAGCTATTGACCAGTTTTTGTAGTTTTTGGAGGATGTAAGGGCACT</p>	<p>Addgene</p>	<p><a href="https://www.addgene.org/22298/">https://www.addgene.org/22298/</a></p>

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AdCre adenovirus	Viagenbio (#CV10010)	Viagenbio	

**Cultured Cells**

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Mouse embryonic fibroblasts (MEFs)	Lab isolated	Male & Female	

**Data & Code Availability**

Description	Source / Repository	Persistent ID / URL

**Other**

<b>Description</b>	<b>Source / Repository</b>	<b>Persistent ID / URL</b>
SuperScript® III First-Strand Synthesis SuperMix	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/18080400#/18080400">https://www.thermofisher.com/order/catalog/product/18080400#/18080400</a>
SsoAdvanced™ Universal SYBR® Green Supermix	Bio-Rad Laboratories	<a href="http://www.bio-rad.com/en-us/product/ssoadvanced-universal-sybr-green-supermix?ID=MH5H1EE8Z">http://www.bio-rad.com/en-us/product/ssoadvanced-universal-sybr-green-supermix?ID=MH5H1EE8Z</a>
Calcium Detection Kit	Abcam	<a href="https://www.abcam.com/calcium-assay-kit-colorimetric-ab102505.html">https://www.abcam.com/calcium-assay-kit-colorimetric-ab102505.html</a>
Mito Stress Test Kit	Agilent Technologies	<a href="https://www.agilent.com/store/en_US/Prod-103015-100/103015-100">https://www.agilent.com/store/en_US/Prod-103015-100/103015-100</a>
Dynabeads™ protein G	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/10009D#/10009D">https://www.thermofisher.com/order/catalog/product/10009D#/10009D</a>