

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
Mouse	Jackson Labs	C57BL/6J (JAX stock #000664)	Male and Female	https://www.jax.org/strain/000664

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male	Mouse	Jackson Labs	C57BL/6J		C57BL/6-Dyrk1a ^{tm1Jdc/J}
Parent - Female	Mouse	Jackson Labs	C57BL/6J		C57BL/6-Dyrk1a ^{tm1Jdc/J}
Parent - Male	Mouse	Jackson Labs	C57BL/6J		(B6.Cg-Gt(ROSA)26Sor ^{tm1.2(CAG-tdTomato,-EGFP)Pjen/J}) https://www.jax.org/strain/026931
Parent - Female	Mouse	Jackson Labs	C57BL/6J		(B6.Cg-Gt(ROSA)26Sor ^{tm1.2(CAG-tdTomato,-EGFP)Pjen/J}) https://www.jax.org/strain/026931
Parent - Male	Mouse	Jackson Labs	C57BL/6J		α MHC-Cre (B6.FVB-Tg(Myh6-cre)2182Mds/J) https://www.jax.org/strain/011038
Parent - Female	Mouse	Jackson Labs	C57BL/6J		α MHC-Cre (B6.FVB-Tg(Myh6-cre)2182Mds/J) https://www.jax.org/strain/011038
Parent - Male	Mouse	Jackson Labs	C57BL/6J		B6.129P2-Gt(ROSA)26Sor ^{tm1(DTA)Lky/J}) https://www.jax.org/strain/009669
Parent - Female	Mouse	Jackson Labs	C57BL/6J		B6.129P2-Gt(ROSA)26Sor ^{tm1(DTA)Lky/J}) https://www.jax.org/strain/009669
Parent - Male	Mouse	European Mouse Mutant Archive	C57BL/6J		B6;129P2-Gt(ROSA) ^{26Sortm1(CAG-Venus/GMNN,-Cherry/CDT1)Jkn/JknH (aka CAG-STOP-Fucci2aR)} http://www.informatics.jax.org/allele/MGI:5645798
Parent - Female	Mouse	European Mouse Mutant Archive	C57BL/6J		B6;129P2-Gt(ROSA) ^{26Sortm1(CAG-Venus/GMNN,-Cherry/CDT1)Jkn/JknH (aka CAG-STOP-Fucci2aR)} http://www.informatics.jax.org/allele/MGI:5645798
Parent - Male	Mouse	Wolf Lab	C57BL/6J	Construct made and validated in Wolf Lab, transgenic mice made by Cyagen, Inc., currently backcrossed ten generations into C57BL/6J (See Bradley, L.A. et al. <i>Circulation Research</i> .	α MHC-MerDreMer-Ki67p-RoxedCre::Rox-Lox-tdTomato-eGFP (α DKRC)

				2021;128:155–168. DOI: 10.1161/CIRCRESAHA. 120.318277	
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Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
mCherry	Origene, Inc	TA150125	1:600 dilution	https://www.origene.com/catalog/antibodies/tag-antibodies/ta150125/rabbit-polyclonal-mcherry-antibody
GFP	Origene, Inc	R1091P	1:1200 dilution	https://www.origene.com/catalog/antibodies/primary-antibodies/r1091p/gfp-ads-to-hu-ms-rt-serum-proteins-goat-polyclonal-antibody
Goat IgG	ThermoFisher	A11055	1:100 dilution	https://www.thermofisher.com/antibody/product/Donkey-anti-Goat-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11055
Rabbit IgG	ThermoFisher	A21207	1:100 dilution	https://www.thermofisher.com/antibody/product/Donkey-anti-Rabbit-IgG-H-L-Highly-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-21207
Rat IgG	Jackson Immunoresearch	712-475-153	1:100 dilution	https://www.jacksonimmuno.com/catalog/products/712-475-153
Wheat Germ Agglutinin WGA-647	ThermoFisher	W32466	1:100 dilution	https://www.thermofisher.com/order/catalog/product/W32466#/W32466
DAPI	Abcam	Ab104139		https://www.abcam.com/mounting-medium-with-dapi-aqueous-fluoroshield-ab104139.html
HRP/AEC detection kit	Abcam	ab64260		https://www.abcam.com/rabbit-specific-hrpaec-abc-detection-ihc-kit-ab64260.html

TaqMan Gene Expression Assays

Applied Biosystems Probe
E2F1 (Mm00432939_m1)
E2F2 (Mm00624964_m1)
E2F3 (Mm01138833_m1)
E2F4 (Mm00514160_m1)
E2F5 (Mm00468171_m1)
E2F6 (Mm00519030_m1)
tfDP1 (Mm00833674_g1)
tfDP2 (Mm00618407_m1)
Lin9 (Mm00613517_m1)
Lin37 (Mm00650488_gh)
Lin52 (Mm00848895_g1)
Lin54 (Mm00554788_m1)
Myb (Mm00501741_m1)

DOI [to be added]

Mybl1 (Mm00485327_m1)
Mybl2 (Mm00485340_m1)
Rb1 (Mm00519030_m1)
RBL1 (Mm01250721_m1)
RBL2 (Mm01242468_m1)
Rbbp4 (Mm00771401_g1)
Dyrk1a (Mm01209881_m1)
Dyrk1a (Mm00432929_m1)
Dyrk1b (Mm00599813_m1)
Dyrk2 (Mm01166529_m1)
Dyrk3 (Mm00523595_m1)
Dyrk4 (Mm01183103_m1)