

## 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
C57Bl6/J	Janvier	C57Bl6/J	M/F	
SWISS	Janvier	SWISS	F	
cZfp292 <sup>-/-</sup>	Generated – S. Dimmeler, Goethe University, Frankfurt	C57Bl6/J	M/F	

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL
$\alpha$ -CD31 (Ms)	BD	553370	1:200		AB_394816
$\alpha$ -CD144 (Ms)	BD	555289	1:200		AB_395707
$\alpha$ -VE-Cadherin	R&D	AF938	1:50		AB_355726
$\alpha$ -ERG 1/2/3	abcam	ab92513	1:200		AB_2630401
$\alpha$ -Paxillin	abcam	ab32084	1:250		AB_779033
$\alpha$ -Myc-Tag	Cell Signaling	2276	1:1000		AB_331783
$\alpha$ -SDOS	Novus Biologicals	NBP1-92209	1:500		AB_11024857
$\alpha$ -SDC4	R&D	AF2918	1:200		AB_2183026
$\alpha$ -Zfp292	Abnova	PAB15720	1:1000		AB_10677118
$\alpha$ -GAPDH	Cell Signaling	2118	1:2000		AB_561053
Knk- $\alpha$ -Rb-488	Invitrogen	#A-21206	1:400		AB_2535792
Knk- $\alpha$ -Rb-555	Invitrogen	#A-32794	1:400		AB_2762834
Knk- $\alpha$ -Rb-647	Invitrogen	#A-31573	1:400		AB_2536183
Knk- $\alpha$ -Ms-488	Invitrogen	#A-32766	1:400		AB_2762823
Knk- $\alpha$ -Ms-555	Invitrogen	#A-31570	1:400		AB_2536180
Knk- $\alpha$ -Ms-647	Invitrogen	#A-32787	1:400		AB_2762830
Knk- $\alpha$ -Gt-647	Invitrogen	#A-27040	1:400		AB_2536101
Knk- $\alpha$ -Rat-647	Invitrogen	#A-48272	1:400		AB_2893138
Knk- $\alpha$ -Ms-HRP	Abcam	Ab97030	1:3000		AB_10680919
Knk- $\alpha$ -Gt-HRP	Abcam	Ab97110	1:5000		AB_10679463
Knk- $\alpha$ -Rb-HRP	Abcam	Ab6802	1:1000		AB_955445

### Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
HUVEC	Lonza	Pooled	<a href="https://bioscience.lonza.com/lonza_bs/CH/en/Primary-and-Stem-Cells/p/000000000000184665/HUVEC-%E2%80%93Human-Umbilical-Vein-Endothelial-Cells%2C-Pooled%2C-in-EGM-2">https://bioscience.lonza.com/lonza_bs/CH/en/Primary-and-Stem-Cells/p/000000000000184665/HUVEC-%E2%80%93Human-Umbilical-Vein-Endothelial-Cells%2C-Pooled%2C-in-EGM-2</a>
HeLa	ATCC	F	
Lenti-X HEK293T	Takara	Unknown	<a href="https://www.takarabio.com/products/gene-function/viral-transduction/lentivirus/packaging-">https://www.takarabio.com/products/gene-function/viral-transduction/lentivirus/packaging-</a>

DOI [to be added]

			<a href="#">systems-and-cells/lenti-x-293t-cells</a>
H5V	A. Vecchi	Unknown	<a href="https://www.pnas.org/content/91/15/7291?ijkey=e5dafca3f5a0ad37459f9277033a2cd7015fc020&amp;keytype=tf_ipsecsha">https://www.pnas.org/content/91/15/7291?ijkey=e5dafca3f5a0ad37459f9277033a2cd7015fc020&amp;keytype=tf_ipsecsha</a>

## Other

Description	Source / Repository	Persistent ID / URL
pCMV6-Entry, Plasmid	Origene, PS100001	<a href="https://www.origene.com/catalog/vectors/mammalian-expression-vectors/ps100001/pcmv6-entry-mammalian-expression-vector">https://www.origene.com/catalog/vectors/mammalian-expression-vectors/ps100001/pcmv6-entry-mammalian-expression-vector</a>
pNUDT16L1-Myc/DDK, Plasmid	Origene, RC202638	<a href="https://www.origene.com/catalog/cdna-clones/expression-plasmids/rc202638/sdos-nudt16l1-nm_032349-human-tagged-orf-clone">https://www.origene.com/catalog/cdna-clones/expression-plasmids/rc202638/sdos-nudt16l1-nm_032349-human-tagged-orf-clone</a>
pSDC4-Myc/DDK, Plasmid	Origene, RC204619	<a href="https://www.origene.com/catalog/cdna-clones/expression-plasmids/rc204619/syndecan-4-sdc4-nm_002999-human-tagged-orf-clone">https://www.origene.com/catalog/cdna-clones/expression-plasmids/rc204619/syndecan-4-sdc4-nm_002999-human-tagged-orf-clone</a>
psPAX2	Addgene, #12260	
pMD2.g	Addgene, #12259	
pLenti4V5/DEST Gateway Cloning Vector	Invitrogen, V49810	
pETM13	G.Stier, EMBL	
pX335_G2P	P. Grote, Goethe University, Frankfurt	