

## 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
C57BL/6J wild-type mice	Jackson Laboratory	C57BL/6J	Male	<a href="https://www.jax.org/strain/000664">https://www.jax.org/strain/000664</a>
<i>Ldlr</i> <sup>-/-</sup> mice	Jackson Laboratory	C57BL/6J	Male	<a href="https://www.jax.org/strain/002207">https://www.jax.org/strain/002207</a>

### Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Persistent ID / URL
$\alpha$ SMA	Abcam	ab5694	1:500 IHC	<a href="https://www.abcam.co.jp/alpha-smooth-muscle-actin-antibody-ab5694.html">https://www.abcam.co.jp/alpha-smooth-muscle-actin-antibody-ab5694.html</a>
Mac3	BD Biosciences	550292	1:50 IHC	<a href="https://www.bdbiosciences.com/ja-jp/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/purified-rat-anti-mouse-cd107b.550292">https://www.bdbiosciences.com/ja-jp/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/purified-rat-anti-mouse-cd107b.550292</a>
Mac3	BD Biosciences	553322	1:800 IF	<a href="https://www.bdbiosciences.com/content/dam/bdb/products/global/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/553322_base/pdf/553322.pdf">https://www.bdbiosciences.com/content/dam/bdb/products/global/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/553322_base/pdf/553322.pdf</a>
Ki-67	Abcam	ab15580	1:200 IF	<a href="https://www.abcam.com/Ki67-antibody-ab15580.html?gclid=Cj0KCQjwidS WBhDdARIsAloTVb31WMFNHg7HpiD1KWd7AjMO-ABVaDn3bGkkR4Ej62MSkIS3FMyUjSAaAmo2EALw_wcB">https://www.abcam.com/Ki67-antibody-ab15580.html?gclid=Cj0KCQjwidS WBhDdARIsAloTVb31WMFNHg7HpiD1KWd7AjMO-ABVaDn3bGkkR4Ej62MSkIS3FMyUjSAaAmo2EALw_wcB</a>
PE-conjugated anti-F4/80 antibody	Biolegend	123110	1ul/test sorting	<a href="https://www.biolegend.com/fr-fr/products/pe-anti-mouse-f4-80-antibody-4068">https://www.biolegend.com/fr-fr/products/pe-anti-mouse-f4-80-antibody-4068</a>
Alexa Flour anti-rat 488-labeled secondary antibody	Thermo Fisher Scientific	A-11006	1:300 IF	<a href="https://www.thermofisher.com/antibody/product/Goat-anti-Rat-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11006">https://www.thermofisher.com/antibody/product/Goat-anti-Rat-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11006</a>
Alexa Flour anti-rabbit 568-labeled secondary antibody	Thermo Fisher Scientific	A-11011	1:500 IF	<a href="https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11011">https://www.thermofisher.com/antibody/product/Goat-anti-Rabbit-IgG-H-L-Cross-Adsorbed-Secondary-Antibody-Polyclonal/A-11011</a>
PCSK9	Abcam	ab31762	50ug/test	<a href="https://www.abcam.com/pcsk9-antibody-ab31762.html">https://www.abcam.com/pcsk9-antibody-ab31762.html</a>
PCSK9	R&D Systems	AF3985	2ug/ml	<a href="https://www.rndsystems.com/products/mouse-rat-proprotein-convertase-9-pcsk9-antibody_af3985">https://www.rndsystems.com/products/mouse-rat-proprotein-convertase-9-pcsk9-antibody_af3985</a>

SDC4	Thermo Fisher Scientific	PA1-32485	50ug/test	<a href="https://www.thermofisher.com/antibody/product/Syndecan-4-Antibody-Polyclonal/PA1-32485">https://www.thermofisher.com/antibody/product/Syndecan-4-Antibody-Polyclonal/PA1-32485</a>
Purified Rabbit Polyclonal Isotype Ctrl Antibody	Biolegend	910801	50ug/test	<a href="https://www.biolegend.com/de-de/products/purified-rabbit-polyclonal-isotype-ctrl-antibody-11604">https://www.biolegend.com/de-de/products/purified-rabbit-polyclonal-isotype-ctrl-antibody-11604</a>
Goat IgG HRP-conjugated Antibody	R&D Systems	HAF017	1:1000	<a href="https://www.rndsystems.com/products/goat-igg-hrp-conjugated-antibody_haf017?gclid=Cj0KCQjwidSWBhDdARIsAloTVbOprQycjhFbTwMsDxIUQAFuCJD-4jZEn2ntQEBn-Fbh129Jv-Zk4aAurNEALw_wcB&amp;gclid=aw.ds">https://www.rndsystems.com/products/goat-igg-hrp-conjugated-antibody_haf017?gclid=Cj0KCQjwidSWBhDdARIsAloTVbOprQycjhFbTwMsDxIUQAFuCJD-4jZEn2ntQEBn-Fbh129Jv-Zk4aAurNEALw_wcB&amp;gclid=aw.ds</a>
PECAM-1	BD Biosciences	557355	1:12.5	<a href="https://wwwbdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/purified-rat-anti-mouse-cd31.557355">https://wwwbdbiosciences.com/en-us/products/reagents/flow-cytometry-reagents/research-reagents/single-color-antibodies-ruo/purified-rat-anti-mouse-cd31.557355</a>

### Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Mouse primary peritoneal macrophages	Primary cells isolated from <i>Ldlr</i> <sup>-/-</sup> mice	M	
Mouse bone marrow derived macrophages	Primary cells isolated from <i>Ldlr</i> <sup>-/-</sup> mice	M	
THP-1 cells	ATCC	Unknown	<a href="https://www.atcc.org/products/tib-202?matchtype=e&amp;network=g&amp;device=c&amp;adposition=&amp;keyword=thp%201%20cells&amp;gclid=Cj0KCQjwidSWBhDdARIsAloTVb195fqpe9KrhOK3UYig1cNjE2YgoYPOKN4qkIPSODx7UyruNsgXTsaAiKbEALw_wcB">https://www.atcc.org/products/tib-202?matchtype=e&amp;network=g&amp;device=c&amp;adposition=&amp;keyword=thp%201%20cells&amp;gclid=Cj0KCQjwidSWBhDdARIsAloTVb195fqpe9KrhOK3UYig1cNjE2YgoYPOKN4qkIPSODx7UyruNsgXTsaAiKbEALw_wcB</a>
Human saphenous vein endothelial cells (HSVECs)	Primary cells	Unknown	
Human saphenous vein smooth muscle cells (HSVSMCs)	Primary cells	Unknown	
Transforming competent cells	Invitrogen	Unknown	<a href="https://www.fishersci.com/shop/products/invitrogen-mach1-t1-phage-resistant-chemically-competent-i-e-coli-i/C862003">https://www.fishersci.com/shop/products/invitrogen-mach1-t1-phage-resistant-chemically-competent-i-e-coli-i/C862003</a>

### Data & Code Availability

Description	Source / Repository	Persistent ID / URL
Total RNA sequencing	GEO	GSE209669

### Other

Description	Source / Repository	Persistent ID / URL

DOI [to be added]

BrdU-TUNEL Assay	Invitrogen	<a href="https://www.thermofisher.com/order/catalog/product/A23210">https://www.thermofisher.com/order/catalog/product/A23210</a>
Oil Red O solution	Sigma	<a href="https://www.sigmaaldrich.com/US/en/product/mm/102419">https://www.sigmaaldrich.com/US/en/product/mm/102419</a>
mouse cholesterol ELISA kit	Wako	<a href="https://labchem-wako.fujifilm.com/us/product/detail/W01S10LABCHO-M1.html">https://labchem-wako.fujifilm.com/us/product/detail/W01S10LABCHO-M1.html</a>
mouse triglycerides ELISA kit	Wako	<a href="https://labchem-wako.fujifilm.com/us/product/detail/W01S10LABTRIG-M1.html">https://labchem-wako.fujifilm.com/us/product/detail/W01S10LABTRIG-M1.html</a>
mouse PCSK9 ELISA kit	R&D Systems	<a href="https://www.rndsystems.com/products/mouse-proprotein-convertase-9-pcsk9-quantikine-elisa-kit_mpc900">https://www.rndsystems.com/products/mouse-proprotein-convertase-9-pcsk9-quantikine-elisa-kit_mpc900</a>
pAAV/D377Y-mPCSK9	Addgene	<a href="https://www.addgene.org/58376/">https://www.addgene.org/58376/</a>
pAAV-LacZ control plasmid	Cell Biolabs	<a href="https://www.cellbiolabs.com/paav-lacz-control-plasmid">https://www.cellbiolabs.com/paav-lacz-control-plasmid</a>
QIAquick Gel Extraction kit	QIAGEN	<a href="https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/dna-clean-up/qiaquick-gel-extraction-kit/">https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/dna-clean-up/qiaquick-gel-extraction-kit/</a>
QIAprep Spin Miniprep kit	QIAGEN	<a href="https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/plasmid-dna/qiaprep-spin-miniprep-kit/">https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/plasmid-dna/qiaprep-spin-miniprep-kit/</a>
QIAfilter Plasmid Maxi kit	QIAGEN	<a href="https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/plasmid-dna/qiafilter-plasmid-kits/">https://www.qiagen.com/us/products/discovery-and-translational-research/dna-rna-purification/dna-purification/plasmid-dna/qiafilter-plasmid-kits/</a>
Aminospark 750	PerkinElmer	<a href="https://resources.perkinelmer.com/corporate/content/tdlotsheet/nev10143-aminospark750-td.pdf">https://resources.perkinelmer.com/corporate/content/tdlotsheet/nev10143-aminospark750-td.pdf</a>
MMP sense 680	PerkinElmer	<a href="https://www.perkinelmer.com/product/ivisense-mmp-680-nev10126">https://www.perkinelmer.com/product/ivisense-mmp-680-nev10126</a>
RNAscope® 2.5 HD Reagent Kit-RED	ACDBio	<a href="https://acdbio.com/rnascope-25-hd-assay%E2%80%94red">https://acdbio.com/rnascope-25-hd-assay%E2%80%94red</a>
Prolong Gold anti-fade reagent with DAPI	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/P36931">https://www.thermofisher.com/order/catalog/product/P36931</a>
F4/80-positive macrophages EasySep system	StemCell Technologies	<a href="https://www.stemcell.com/easysep-mouse-f4-80-positive-selection-kit.html">https://www.stemcell.com/easysep-mouse-f4-80-positive-selection-kit.html</a>
illustra RNAspin Mini kit	GE Healthcare	<a href="https://labettor.com/combo/detail/id/2952/">https://labettor.com/combo/detail/id/2952/</a>
High Capacity cDNA Reverse Transcription Kit	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/4374966">https://www.thermofisher.com/order/catalog/product/4374966</a>
EasyQuick RT MasterMix	CWbio	<a href="https://www.cwbiosciences.com/uploads/20190611/f7d0b821cfca1f966d689709a81fabb0.pdf">https://www.cwbiosciences.com/uploads/20190611/f7d0b821cfca1f966d689709a81fabb0.pdf</a>
Recombinant Mouse Proprotein Convertase 9/PCSK9 Protein	R&D Systems	<a href="https://www.rndsystems.com/products/recombinant-mouse-proprotein-convertase-9-pcsk9-protein-cf_9258-se?gclid=Cj0KCQjwidSWBhDdARIsAloTVb3BWCYPoeymOKRrh3CjoWfvgsXkfPsUa3umqXd6EMz0Tm5dk003V-kaAoQEEALw_wcB&amp;gclsrc=aw.ds">https://www.rndsystems.com/products/recombinant-mouse-proprotein-convertase-9-pcsk9-protein-cf_9258-se?gclid=Cj0KCQjwidSWBhDdARIsAloTVb3BWCYPoeymOKRrh3CjoWfvgsXkfPsUa3umqXd6EMz0Tm5dk003V-kaAoQEEALw_wcB&amp;gclsrc=aw.ds</a>
Recombinant Mouse Syndecan-4 Protein	R&D Systems	<a href="https://www.rndsystems.com/products/recombinant-mouse-syndecan-4-protein-cf_6267-sd">https://www.rndsystems.com/products/recombinant-mouse-syndecan-4-protein-cf_6267-sd</a>

Recombinant Mouse M-CSF Protein	R&D Systems	<a href="https://www.rndsystems.com/products/recombinant-mouse-m-csf-protein_416-ml">https://www.rndsystems.com/products/recombinant-mouse-m-csf-protein_416-ml</a>
Lipofectamine™ RNAiMAX Transfection Reagent	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/13778075">https://www.thermofisher.com/order/catalog/product/13778075</a>
TPCA 1, IkappaB kinase inhibitor	Abcam	<a href="https://www.abcam.com/tpca-1-ikappab-kinase-inhibitor-ab145522.html">https://www.abcam.com/tpca-1-ikappab-kinase-inhibitor-ab145522.html</a>
Chromogenic LAL Endotoxin Assay kit	GenScript	<a href="https://www.genscript.com/kit/L00350-ToxinSensor_Chromogenic_LAL_Endotoxin_Assay_Kit.html">https://www.genscript.com/kit/L00350-ToxinSensor_Chromogenic_LAL_Endotoxin_Assay_Kit.html</a>
Recombinant Human MCP-1 (CCL2)	R&D Systems	<a href="https://www.rndsystems.com/products/recombinant-human-ccl2-mcp-1-protein_279-mc">https://www.rndsystems.com/products/recombinant-human-ccl2-mcp-1-protein_279-mc</a>
Recombinant human PCSK9	R&D Systems	<a href="https://www.rndsystems.com/products/recombinant-human-proprotein-convertase-9-pcsk9-protein-cf_3888-se">https://www.rndsystems.com/products/recombinant-human-proprotein-convertase-9-pcsk9-protein-cf_3888-se</a>
Low Density Lipoprotein from Human Plasma, oxidized, Dil conjugate	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/L34358">https://www.thermofisher.com/order/catalog/product/L34358</a>
Pierce™ Co-Immunoprecipitation Kit	Thermo Fisher Scientific	<a href="https://www.thermofisher.com/order/catalog/product/26149">https://www.thermofisher.com/order/catalog/product/26149</a>
Corning Matrigel Invasion Chamber 24 well plate 8.0 micron	Corning	<a href="https://ecatalog.corning.com/life-sciences/b2c/US/en/Permeable-Supports/Inserts/Corning%20AE-BioCoat%20AE-Cell-Environments-and-Corning-BioCoat-Matrigel%20AE-Invasion-Chambers,-PET-Membrane/p/354480">https://ecatalog.corning.com/life-sciences/b2c/US/en/Permeable-Supports/Inserts/Corning%20AE-BioCoat%20AE-Cell-Environments-and-Corning-BioCoat-Matrigel%20AE-Invasion-Chambers,-PET-Membrane/p/354480</a>