

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

Genetically Modified Animals

	Species	Vendor or Source	Background Strain	Other Information	Persistent ID / URL
Parent - Male					
Parent - Female					

Antibodies

Target antigen	Vendor or Source	Catalog #	Working concentration	Lot # (preferred but not required)	Persistent ID / URL

DNA/cDNA Clones

Clone Name	Sequence	Source / Repository	Persistent ID / URL
SNHG18-SiRNA	4390846	ThermoFisher	https://www.thermofisher.com
Control-SiRNA	s452763	ThermoFisher	https://www.thermofisher.com

Cultured Cells

Name	Vendor or Source	Sex (F, M, or unknown)	Persistent ID / URL
Human primary aortic SMCs	Lonza	2 F and 7 M	https://www.lonza.com/
Human primary aortic SMCs	PromoCell	1 F and 2 M	https://www.promocell.com/
Human primary aortic SMCs	University of California at Los Angeles (UCLA)	30 F and 109 M	PMID: 20170901, 33040646
Immortalized coronary artery SMCs	University of Virginia	Unknown	

Data & Code Availability

Description	Source / Repository	Persistent ID / URL
RNAseq data	GEO	GSE193817
ATACseq data	GEO	GSE198544
eQTL data	University of Virginia	https://virginia.box.com/s/t5e1tzlaqs85z13o4ie2f9t1i0zfypd
sQTL data	University of Virginia	https://virginia.box.com/s/o81cxrj5xne3xem4au785mupikduuwbu

DOI [to be added]

User-friendly website to query the dataset published in this paper.	University of Virginia	http://civeleklab.cphg.virginia.edu
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Other

Description	Source / Repository	Persistent ID / URL

ARRIVE GUIDELINES

The ARRIVE guidelines (<https://arriveguidelines.org/>) are a checklist of recommendations to improve the reporting of research involving animals. Key elements of the study design should be included below to better enable readers to scrutinize the research adequately, evaluate its methodological rigor, and reproduce the methods or findings.

Study Design

Groups	Sex	Age	Number (prior to experiment)	Number (after termination)	Littermates (Yes/No)	Other description
Group 1 (Control)						
Group 2						
Add more if needed						

Sample Size: Please explain how the sample size was decided Please provide details of any a *prior* sample size calculation, if done.

Inclusion Criteria

Exclusion Criteria

Randomization

Blinding