SUPPLEMENTAL MATERIAL

Table S1. List of genes differentially expressed in Cre(-) and SM22α-Cre(+)*Mmp14*$^{F/F}$ VSMCs

ENTREZ ID	SYMBOL	GENE NAME	Cre(-) 1	Cre(-) 2	Cre(+) 1	Cre(+) 2	Cre(-) AVG	Cre(+) AVG	Log2 (pos-nega)	Fold-change
379043	**Raet1e**	retinoic acid early transcript 1E	3.4	3.2	5.6	6.7	3.3	6.2	2.8	7.1
57266	**Cxcl14**	chemokine (C-X-C motif) ligand 14	5.4	4.7	8.6	6.4	5.0	7.5	2.5	5.7
20210	**Saa3**	serum amyloid A 3	3.4	6.0	7.3	7.0	4.7	7.1	2.5	5.5
14941	**Gzmd**	granzyme D	2.0	2.2	6.8	2.1	2.1	4.4	2.4	5.1
57781	**Cd200r1**	CD200 receptor 1	4.1	3.8	6.0	6.5	3.9	6.3	2.4	5.1
17533	**Mrc1**	mannose receptor, C type 1	4.9	5.7	7.0	7.7	5.3	7.4	2.1	4.2
80891	**Fcrls**	Fc receptor-like S, scavenger receptor	6.0	3.7	8.2	5.6	4.8	6.9	2.1	4.2
232413	**Clec12a**	C-type lectin domain family 12, member a	4.8	5.3	7.3	6.8	5.0	7.0	2.0	4.1
56744	**Pf4**	platelet factor 4	4.3	5.2	5.5	8.1	4.8	6.8	2.0	4.1
21810	**Tgfbi**	transforming growth factor, beta induced	6.0	6.7	8.2	8.5	6.3	8.3	2.0	4.0
72318	**Cyth4**	cytohesin 4	5.8	5.7	7.6	7.9	5.8	7.7	2.0	3.9
15951	**Ifi204**	interferon activated gene 204	3.2	4.3	6.1	5.3	3.8	5.7	2.0	3.9
320292	**Rasgef1b**	RasGEF domain family, member 1B	3.7	3.9	5.8	5.7	3.8	5.8	2.0	3.9
12774	**Ccr5**	chemokine (C-C motif) receptor 5	3.4	3.0	4.8	5.4	3.2	5.1	1.9	3.7
14276	**Folr2**	folate receptor 2 (fetal)	5.0	4.5	8.0	5.4	4.8	6.7	1.9	3.7
20556	**Slfn2**	schlafen 2	6.2	5.9	7.9	8.0	6.0	7.9	1.9	3.7
15109	**Hal**	histidine ammonia lyase	2.4	2.8	2.5	6.5	2.6	4.5	1.9	3.7
243277	**Gpr133**	G protein-coupled receptor 133	2.9	4.1	6.1	4.7	3.5	5.4	1.9	3.6
68774	**Ms4a6d**	membrane-spanning 4-domains, subfamily A, member 6D	5.7	5.6	7.5	7.5	5.6	7.5	1.8	3.6
17916	**Myo1f**	myosin IF	5.6	5.7	7.3	7.7	5.7	7.5	1.8	3.6
107321	**Lpxn**	leupaxin	3.2	3.7	5.5	5.0	3.4	5.2	1.8	3.5
246177	**Myo1g**	myosin IG	3.3	3.3	4.4	5.8	3.3	5.1	1.8	3.5
20452	**St8sia4**	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	4.0	4.5	5.7	6.3	4.3	6.0	1.8	3.4
109648	**Npy**	neuropeptide Y	8.0	7.5	8.9	10.1	7.7	9.5	1.8	3.4
17084	**Ly86**	lymphocyte antigen 86	4.3	5.5	6.2	7.0	4.9	6.6	1.8	3.4
19264	**Ptprc**	protein tyrosine phosphatase, receptor type, C	6.6	6.7	8.3	8.5	6.6	8.4	1.8	3.4
13733	**Emr1**	EGF-like module containing, mucin-like, hormone receptor-like sequence 1	6.1	6.0	7.9	7.6	6.0	7.8	1.7	3.3
14727	**Gp49a**	glycoprotein 49 A	6.6	5.9	7.8	8.2	6.3	8.0	1.7	3.3
23845	**Clec5a**	C-type lectin domain family 5, member a	4.4	4.7	5.8	6.8	4.6	6.3	1.7	3.3
20568	**Slpi**	secretory leukocyte peptidase inhibitor	5.0	4.7	6.2	6.9	4.9	6.6	1.7	3.3

20308	**Ccl9**	chemokine (C-C motif) ligand 9	5.2	6.0	6.9	7.7	5.6	7.3	1.7	3.2
18733	**Pirb**	paired Ig-like receptor B	5.5	5.9	7.1	7.7	5.7	7.4	1.7	3.2
17060	**Blnk**	B cell linker	6.1	6.1	7.8	7.8	6.1	7.8	1.7	3.2
100303646	**AF357355**	snoRNA AF357355	3.2	3.2	6.1	3.6	3.2	4.9	1.7	3.2
20288	**Msr1**	macrophage scavenger receptor 1	6.4	6.7	8.1	8.4	6.6	8.2	1.7	3.2
66109	**Tspan13**	tetraspanin 13	4.0	5.3	6.4	6.2	4.6	6.3	1.7	3.2
11501	**Adam8**	a disintegrin and metallopeptidase domain 8	6.6	6.5	8.3	8.0	6.5	8.2	1.7	3.1
319446	**Dpep2**	dipeptidase 2	5.3	3.9	6.6	5.9	4.6	6.3	1.7	3.1
544963	**Iqgap2**	IQ motif containing GTPase activating protein 2	5.4	4.9	6.3	7.3	5.2	6.8	1.6	3.1
69769	**Tnfaip8l2**	tumor necrosis factor, alpha-induced protein 8-like 2	4.6	4.9	6.1	6.8	4.8	6.4	1.6	3.1
12506	**Cd48**	CD48 antigen	5.8	5.3	6.9	7.5	5.6	7.2	1.6	3.1
382062	**AB124611**	cDNA sequence AB124611	5.1	5.1	6.3	7.1	5.1	6.7	1.6	3.1
15900	**Irf8**	interferon regulatory factor 8	5.5	5.2	6.6	7.3	5.4	7.0	1.6	3.1
20299	**Ccl22**	chemokine (C-C motif) ligand 22	2.7	3.3	2.6	6.7	3.0	4.6	1.6	3.0
20345	**Selplg**	selectin, platelet (p-selectin) ligand	5.5	5.1	6.3	7.5	5.3	6.9	1.6	3.0
22324	**Vav1**	vav 1 oncogene	4.5	3.8	5.6	5.9	4.2	5.8	1.6	3.0
16592	**Fabp5**	fatty acid binding protein 5, epidermal	8.5	8.0	9.4	10.2	8.2	9.8	1.6	3.0
17476	**Mpeg1**	macrophage expressed gene 1	6.9	6.6	8.0	8.7	6.8	8.3	1.6	3.0
233571	**P2ry6**	pyrimidinergic receptor P2Y, G-protein coupled, 6	6.9	6.6	8.5	8.2	6.7	8.3	1.6	3.0
15170	**Ptpn6**	protein tyrosine phosphatase, non-receptor type 6	5.0	5.3	6.4	7.1	5.2	6.7	1.6	3.0
83433	**Trem2**	triggering receptor expressed on myeloid cells 2	7.4	7.0	8.6	9.0	7.2	8.8	1.6	3.0
11690	**Alox5ap**	arachidonate 5-lipoxygenase activating protein	7.7	7.4	9.1	9.1	7.6	9.1	1.6	2.9
12259	**C1qa**	complement component 1, q subcomponent, alpha polypeptide	6.6	6.9	8.2	8.4	6.7	8.3	1.6	2.9
20302	**Ccl3**	chemokine (C-C motif) ligand 3	6.4	7.1	7.7	9.0	6.8	8.3	1.6	2.9
16912	**Psmb9**	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	4.6	4.8	5.8	6.7	4.7	6.3	1.6	2.9
14131	**Fcgr3**	Fc receptor, IgG, low affinity III	6.3	6.7	7.8	8.3	6.5	8.1	1.5	2.9
12768	**Ccr1**	chemokine (C-C motif) receptor 1	3.3	3.4	4.0	5.7	3.3	4.9	1.5	2.9
16149	**Cd74**	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	3.9	3.4	3.7	6.6	3.6	5.1	1.5	2.9
17970	**Ncf2**	neutrophil cytosolic factor 2	5.2	5.6	6.5	7.4	5.4	7.0	1.5	2.9
17972	**Ncf4**	neutrophil cytosolic factor 4	3.6	4.3	5.2	5.8	4.0	5.5	1.5	2.9
14129	**Fcgr1**	Fc receptor, IgG, high affinity I	4.6	4.6	6.4	5.8	4.6	6.1	1.5	2.9
74272	**1700054O19Rik**	RIKEN cDNA 1700054O19 gene	2.5	4.0	4.8	4.7	3.2	4.7	1.5	2.8

12767	**Cxcr4**	chemokine (C-X-C motif) receptor 4	6.8	6.6	8.1	8.3	6.7	8.2	1.5	2.8
23900	**Hcst**	hematopoietic cell signal transducer	5.1	5.7	6.2	7.6	5.4	6.9	1.5	2.8
54712	**Plxnc1**	plexin C1	6.5	5.6	7.4	7.7	6.0	7.5	1.5	2.8
19354	**Rac2**	RAS-related C3 botulinum substrate 2	6.9	6.9	8.1	8.7	6.9	8.4	1.5	2.8
668218	**Bin2**	bridging integrator 2	3.0	2.9	3.9	5.0	2.9	4.4	1.5	2.8
217305	**Cd300ld**	CD300 molecule-like family member d	4.8	5.2	6.2	6.7	5.0	6.5	1.5	2.8
12984	**Csf2rb2**	colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage)	6.3	6.0	7.3	8.0	6.1	7.6	1.5	2.8
13618	**Ednrb**	endothelin receptor type B	4.4	4.3	5.2	6.4	4.3	5.8	1.5	2.8
14130	**Fcgr2b**	Fc receptor, IgG, low affinity IIb	5.4	5.4	6.4	7.5	5.4	6.9	1.5	2.8
14544	**Gda**	guanine deaminase	4.8	5.9	6.3	7.4	5.4	6.8	1.5	2.8
14744	**Gpr65**	G-protein coupled receptor 65	5.8	4.9	7.1	6.7	5.4	6.9	1.5	2.8
66857	**Plbd1**	phospholipase B domain containing 1	3.2	4.9	3.2	7.8	4.0	5.5	1.5	2.8
16534	**Kcnn4**	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4	4.0	4.3	5.8	5.5	4.2	5.7	1.5	2.8
320207	**Pik3r5**	phosphoinositide-3-kinase, regulatory subunit 5, p101	5.9	5.7	7.2	7.4	5.8	7.3	1.5	2.8
216869	**Arrb2**	arrestin, beta 2	5.5	5.5	6.8	7.1	5.5	7.0	1.5	2.8
19735	**Rgs2**	regulator of G-protein signaling 2	5.3	4.4	6.2	6.5	4.9	6.3	1.5	2.8
217203	**Tmem106a**	transmembrane protein 106A	6.9	6.8	8.4	8.2	6.8	8.3	1.5	2.8
215632	**Psd4**	pleckstrin and Sec7 domain containing 4	4.1	2.9	4.7	5.1	3.5	4.9	1.5	2.7
226652	**Arhgap30**	Rho GTPase activating protein 30	4.8	4.6	5.8	6.4	4.7	6.1	1.4	2.7
12047	**Bcl2a1d**	B cell leukemia/lymphoma 2 related protein A1d	7.6	7.5	8.9	9.1	7.5	9.0	1.4	2.7
76933	**Ifi27l2a**	interferon, alpha-inducible protein 27 like 2A	3.5	3.4	5.4	4.4	3.5	4.9	1.4	2.7
16197	**Il7r**	interleukin 7 receptor	6.7	7.2	7.8	9.0	7.0	8.4	1.4	2.7
17085	**Ly9**	lymphocyte antigen 9	4.1	4.3	5.2	6.1	4.2	5.7	1.4	2.7
105855	**Nckap1l**	NCK associated protein 1 like	6.9	6.8	8.2	8.4	6.8	8.3	1.4	2.7
239849	**Cd200r4**	CD200 receptor 4	6.6	6.2	7.7	8.0	6.4	7.9	1.4	2.7
16409	**Itgam**	integrin alpha M	5.7	5.9	6.4	8.0	5.8	7.2	1.4	2.7
50934	**Slc7a8**	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	5.9	5.8	7.2	7.4	5.9	7.3	1.4	2.7
107769	**Tm6sf1**	transmembrane 6 superfamily member 1	5.4	5.5	6.6	7.2	5.5	6.9	1.4	2.7
94176	**Dock2**	dedicator of cyto-kinesis 2	4.4	4.6	5.7	6.1	4.5	5.9	1.4	2.7
223433	**Fam105a**	family with sequence similarity 105, member A	5.1	5.0	6.1	6.8	5.1	6.5	1.4	2.7
279572	**Tlr13**	toll-like receptor 13	6.6	6.2	7.5	8.1	6.4	7.8	1.4	2.7

54486	**Hpgds**	hematopoietic prostaglandin D synthase	5.0	4.9	6.3	6.4	4.9	6.3	1.4	2.6
15559	**Htr2b**	5-hydroxytryptamine (serotonin) receptor 2B	3.8	4.2	5.3	5.6	4.0	5.4	1.4	2.6
11810	**Apobec1**	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1	7.3	7.4	8.8	8.7	7.3	8.7	1.4	2.6
17079	**Cd180**	CD180 antigen	6.9	6.7	8.3	8.0	6.8	8.2	1.4	2.6
13723	**Emb**	embigin	7.0	6.9	7.9	8.8	7.0	8.3	1.4	2.6
67092	**Gatm**	glycine amidinotransferase (L-arginine:glycine amidinotransferase)	4.8	4.9	5.7	6.8	4.9	6.2	1.4	2.6
382301	**Sly**	Sycp3 like Y-linked	4.4	4.9	6.3	5.9	4.7	6.1	1.4	2.6
27052	**Aoah**	acyloxyacyl hydrolase	3.4	3.2	4.4	5.0	3.3	4.7	1.4	2.6
20304	**Ccl5**	chemokine (C-C motif) ligand 5	4.7	5.3	5.1	7.6	5.0	6.4	1.4	2.6
12475	**Cd14**	CD14 antigen	5.6	5.8	7.1	7.0	5.7	7.1	1.4	2.6
246177	**Myo1g**	myosin IG	4.3	4.0	5.1	6.0	4.1	5.5	1.4	2.6
17969	**Ncf1**	neutrophil cytosolic factor 1	5.1	4.5	5.9	6.5	4.8	6.2	1.4	2.6
14960	**H2-Aa**	histocompatibility 2, class II antigen A, alpha	2.8	2.7	2.6	5.6	2.8	4.1	1.4	2.6
98496	**Pid1**	phosphotyrosine interaction domain containing 1	4.4	4.3	6.1	5.3	4.3	5.7	1.4	2.6
140497	**AF251705**	cDNA sequence AF251705	6.2	6.0	7.1	7.9	6.1	7.5	1.4	2.6
387142	**Mir24-1**	microRNA 24-1	3.3	4.0	5.6	4.5	3.7	5.0	1.4	2.6
67775	**Rtp4**	receptor transporter protein 4	3.1	2.7	5.4	3.0	2.9	4.2	1.4	2.6
12267	**C3ar1**	complement component 3a receptor 1	8.0	8.0	9.4	9.3	8.0	9.3	1.4	2.5
13032	**Ctsc**	cathepsin C	6.5	6.6	7.5	8.3	6.6	7.9	1.4	2.5
735268	**Mir680-1**	microRNA 680-1	4.4	5.8	6.7	6.2	5.1	6.4	1.3	2.5
50778	**Rgs1**	regulator of G-protein signaling 1	4.2	4.6	6.1	5.4	4.4	5.7	1.3	2.5
15442	**Hpse**	heparanase	5.4	5.7	6.3	7.4	5.5	6.9	1.3	2.5
56847	**Aldh1a3**	aldehyde dehydrogenase family 1, subfamily A3	4.6	4.0	6.2	5.0	4.3	5.6	1.3	2.5
12045	**Bcl2a1b**	B cell leukemia/lymphoma 2 related protein A1b	7.4	7.1	8.8	8.4	7.3	8.6	1.3	2.5
100628614	**Mir5123**	microRNA 5123	3.2	3.5	4.5	4.8	3.3	4.7	1.3	2.5
104759	**Pld4**	phospholipase D family, member 4	6.0	4.4	5.7	7.3	5.2	6.5	1.3	2.5
73329	**1700040F15Rik**	RIKEN cDNA 1700040F15 gene	4.4	5.6	6.5	6.1	5.0	6.3	1.3	2.5
68738	**Acss1**	acyl-CoA synthetase short-chain family member 1	2.7	3.4	3.8	4.9	3.1	4.4	1.3	2.5
52855	**Lair1**	leukocyte-associated Ig-like receptor 1	5.5	5.2	6.9	6.4	5.3	6.7	1.3	2.5
27419	**Naglu**	alpha-N-acetylglucosaminidase (Sanfilippo disease IIIB)	5.5	4.9	6.0	7.0	5.2	6.5	1.3	2.5
74039	**Nfam1**	Nfat activating molecule with ITAM motif 1	4.4	4.0	5.2	5.9	4.2	5.5	1.3	2.5
30955	**Pik3cg**	phosphoinositide-3-kinase, catalytic, gamma polypeptide	4.2	3.9	5.0	5.6	4.0	5.3	1.3	2.5
170744	**Tlr8**	toll-like receptor 8	4.8	4.6	5.6	6.4	4.7	6.0	1.3	2.5

210293	**Dock10**	dedicator of cytokinesis 10	5.9	5.7	6.5	7.7	5.8	7.1	1.3	2.5
212937	**Tifab**	TRAF-interacting protein with forkhead-associated domain, family member B	3.6	3.3	4.2	5.4	3.5	4.8	1.3	2.5
16411	**Itgax**	integrin alpha X	5.5	6.9	6.3	8.8	6.2	7.5	1.3	2.4
407790	**Ndufa4l2**	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2	3.6	6.2	6.3	6.1	4.9	6.2	1.3	2.4
16790	**Anpep**	alanyl (membrane) aminopeptidase	8.8	9.0	10.0	10.4	8.9	10.2	1.3	2.4
12044	**Bcl2a1a**	B cell leukemia/lymphoma 2 related protein A1a	6.0	6.3	7.2	7.6	6.2	7.4	1.3	2.4
18187	**Nrp2**	neuropilin 2	6.7	6.2	7.6	7.9	6.5	7.7	1.3	2.4
71653	**4930506M07Rik**	RIKEN cDNA 4930506M07 gene	6.1	5.5	6.4	7.7	5.8	7.1	1.3	2.4
60533	**Cd274**	CD274 antigen	4.7	4.5	4.6	7.1	4.6	5.8	1.3	2.4
18726	**Lilra6**	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6	3.7	3.8	4.8	5.2	3.7	5.0	1.3	2.4
228026	**Pdk1**	pyruvate dehydrogenase kinase, isoenzyme 1	3.8	4.7	5.5	5.4	4.2	5.5	1.3	2.4
13034	**Ctse**	cathepsin E	3.0	4.3	3.2	6.7	3.7	4.9	1.3	2.4
15163	**Hcls1**	hematopoietic cell specific Lyn substrate 1	6.1	5.7	7.1	7.2	5.9	7.2	1.3	2.4
16822	**Lcp2**	lymphocyte cytosolic protein 2	5.3	5.3	6.2	6.9	5.3	6.5	1.3	2.4
237542	**Osbpl8**	oxysterol binding protein-like 8	7.6	7.1	8.6	8.7	7.4	8.6	1.3	2.4
12523	**Cd84**	CD84 antigen	6.8	7.1	7.8	8.7	7.0	8.2	1.3	2.4
56619	**Clec4e**	C-type lectin domain family 4, member e	5.4	3.8	5.5	6.2	4.6	5.8	1.3	2.4
211228	**Lrrc25**	leucine rich repeat containing 25	3.9	4.3	5.0	5.7	4.1	5.3	1.3	2.4
12508	**Cd53**	CD53 antigen	8.5	8.5	9.6	10.0	8.5	9.8	1.2	2.4
83490	**Pik3ap1**	phosphoinositide-3-kinase adaptor protein 1	5.5	5.5	6.8	6.6	5.5	6.7	1.2	2.4
56193	**Plek**	pleckstrin	7.7	7.6	8.6	9.3	7.7	8.9	1.2	2.4
78591	**A430104N18Rik**	RIKEN cDNA A430104N18 gene	4.5	3.2	4.4	5.7	3.8	5.1	1.2	2.3
72042	**Cotl1**	coactosin-like 1 (Dictyostelium)	6.7	6.2	7.2	8.2	6.4	7.7	1.2	2.3
101056121	**LOC101056121**	Y-linked testis-specific protein 1-like	4.2	4.5	5.6	5.6	4.4	5.6	1.2	2.3
56857	**Slc37a2**	solute carrier family 37 (glycerol-3-phosphate transporter), member 2	5.2	4.7	6.2	6.2	5.0	6.2	1.2	2.3
170743	**Tlr7**	toll-like receptor 7	4.9	4.8	5.7	6.4	4.8	6.1	1.2	2.3
436467	**Trav14-1**	T cell receptor alpha variable 14-1	2.9	3.9	4.7	4.5	3.4	4.6	1.2	2.3
53314	**Batf**	basic leucine zipper transcription factor, ATF-like	3.8	3.7	4.5	5.4	3.7	4.9	1.2	2.3
12493	**Cd37**	CD37 antigen	4.9	4.7	5.9	6.2	4.8	6.1	1.2	2.3
16414	**Itgb2**	integrin beta 2	7.3	7.1	7.8	9.1	7.2	8.4	1.2	2.3
56792	**Stap1**	signal transducing adaptor family member 1	3.4	3.7	5.0	4.6	3.6	4.8	1.2	2.3
239393	**Lrp12**	low density lipoprotein-related protein 12	6.6	6.4	7.2	8.2	6.5	7.7	1.2	2.3

22368	**Trpv2**	transient receptor potential cation channel, subfamily V, member 2	6.1	5.6	7.0	7.1	5.8	7.0	1.2	2.3
100504230	**AU020206**	expressed sequence AU020206	8.0	7.0	8.5	8.8	7.5	8.7	1.2	2.3
212032	**Hk3**	hexokinase 3	3.8	4.0	5.0	5.2	3.9	5.1	1.2	2.3
80719	**Igsf6**	immunoglobulin superfamily, member 6	6.0	6.3	6.8	8.0	6.2	7.4	1.2	2.3
78771	**Mctp1**	multiple C2 domains, transmembrane 1	5.4	4.9	6.1	6.6	5.2	6.3	1.2	2.3
20564	**Slit3**	slit homolog 3 (Drosophila)	6.3	5.8	7.7	6.8	6.1	7.3	1.2	2.3
216991	**Adap2**	ArfGAP with dual PH domains 2	4.2	3.8	5.0	5.4	4.0	5.2	1.2	2.3
54725	**Cadm1**	cell adhesion molecule 1	6.9	5.7	7.4	7.6	6.3	7.5	1.2	2.3
18106	**Cd244**	CD244 natural killer cell receptor 2B4	3.0	2.8	3.3	4.9	2.9	4.1	1.2	2.3
16154	**Il10ra**	interleukin 10 receptor, alpha	3.8	4.0	4.8	5.3	3.9	5.1	1.2	2.3
101056060	**LOC101056060**	Y-linked testis-specific protein 1-like	4.8	5.5	6.4	6.2	5.1	6.3	1.2	2.3
23833	**Cd52**	CD52 antigen	7.1	6.9	7.7	8.7	7.0	8.2	1.2	2.3
12825	**Col3a1**	collagen, type III, alpha 1	5.5	5.4	7.0	6.2	5.4	6.6	1.2	2.3
66102	**Cxcl16**	chemokine (C-X-C motif) ligand 16	6.8	6.4	7.7	7.9	6.6	7.8	1.2	2.3
16331	**Inpp5d**	inositol polyphosphate-5-phosphatase D	5.8	5.3	6.6	6.9	5.6	6.7	1.2	2.3
68279	**Mcoln2**	mucolipin 2	5.3	4.4	6.0	6.1	4.9	6.0	1.2	2.3
109225	**Ms4a7**	membrane-spanning 4-domains, subfamily A, member 7	8.8	8.1	9.9	9.5	8.5	9.7	1.2	2.3
100034251	**Wfdc17**	WAP four-disulfide core domain 17	9.0	9.3	9.6	11.1	9.2	10.4	1.2	2.3
73149	**Clec4a3**	C-type lectin domain family 4, member a3	3.1	3.9	4.2	5.1	3.5	4.7	1.2	2.3
16658	**Mafb**	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	4.9	4.7	5.9	6.1	4.8	6.0	1.2	2.3
245945	**Rbm47**	RNA binding motif protein 47	4.1	3.9	5.0	5.3	4.0	5.1	1.2	2.3
21938	**Tnfrsf1b**	tumor necrosis factor receptor superfamily, member 1b	6.8	6.5	7.3	8.4	6.7	7.8	1.2	2.3
57257	**Vav3**	vav 3 oncogene	3.4	3.0	4.3	4.4	3.2	4.3	1.2	2.3
219144	**Arl11**	ADP-ribosylation factor-like 11	4.9	4.6	5.7	6.1	4.7	5.9	1.2	2.2
12260	**C1qb**	complement component 1, q subcomponent, beta polypeptide	8.3	8.1	9.3	9.4	8.2	9.4	1.2	2.2
381654	**C87414**	expressed sequence C87414	2.3	4.2	4.3	4.6	3.3	4.4	1.2	2.2
108101	**Fermt3**	fermitin family homolog 3 (Drosophila)	4.6	4.6	5.7	5.9	4.6	5.8	1.2	2.2
207839	**Galnt6**	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6	4.9	4.5	5.4	6.3	4.7	5.9	1.2	2.2
18826	**Lcp1**	lymphocyte cytosolic protein 1	7.9	7.9	8.9	9.2	7.9	9.1	1.2	2.2
73656	**Ms4a6c**	membrane-spanning 4-domains, subfamily A, member 6C	4.3	3.8	4.6	5.8	4.1	5.2	1.2	2.2

22368	**Trpv2**	transient receptor potential cation channel, subfamily V, member 2	6.3	6.1	7.5	7.3	6.2	7.4	1.2	2.2
54445	**Unc93b1**	unc-93 homolog B1 (C. elegans)	6.6	6.2	7.3	7.8	6.4	7.6	1.2	2.2
12721	**Coro1a**	coronin, actin binding protein 1A	5.1	5.2	6.3	6.3	5.1	6.3	1.2	2.2
12978	**Csf1r**	colony stimulating factor 1 receptor	6.7	6.3	7.7	7.7	6.5	7.7	1.2	2.2
20311	**Cxcl5**	chemokine (C-X-C motif) ligand 5	3.5	4.3	4.6	5.5	3.9	5.1	1.2	2.2
13058	**Cybb**	cytochrome b-245, beta polypeptide	7.6	7.2	7.9	9.2	7.4	8.6	1.2	2.2
17948	**Naip2**	NLR family, apoptosis inhibitory protein 2	5.1	4.8	5.8	6.4	5.0	6.1	1.2	2.2
11468	**Actg2**	actin, gamma 2, smooth muscle, enteric	8.1	7.6	9.4	8.5	7.8	9.0	1.1	2.2
12491	**Cd36**	CD36 antigen	6.4	7.6	7.1	9.2	7.0	8.2	1.1	2.2
14017	**Evi2a**	ecotropic viral integration site 2a	5.7	5.7	6.8	6.8	5.7	6.8	1.1	2.2
23880	**Fyb**	FYN binding protein	5.5	5.0	6.7	6.2	5.3	6.4	1.1	2.2
70719	**Hmha1**	histocompatibility (minor) HA-1	4.8	4.0	5.6	5.5	4.4	5.5	1.1	2.2
64099	**Parvg**	parvin, gamma	3.5	3.9	3.7	5.8	3.7	4.8	1.1	2.2
230787	**Themis2**	thymocyte selection associated family member 2	4.5	4.3	5.1	6.0	4.4	5.5	1.1	2.2
57425	**U90926**	cDNA sequence U90926	3.9	5.3	4.8	6.7	4.6	5.7	1.1	2.2
12489	**Cd33**	CD33 antigen	6.0	5.7	5.7	8.2	5.8	7.0	1.1	2.2
14191	**Fgr**	Gardner-Rasheed feline sarcoma viral (Fgr) oncogene homolog	3.1	3.0	3.0	5.3	3.0	4.2	1.1	2.2
15117	**Has2**	hyaluronan synthase 2	5.3	5.3	6.4	6.5	5.3	6.5	1.1	2.2
14728	**Lilrb4**	leukocyte immunoglobulin-like receptor, subfamily B, member 4	9.1	9.5	10.3	10.6	9.3	10.4	1.1	2.2
69189	**Mcemp1**	mast cell expressed membrane protein 1	3.4	3.1	3.2	5.6	3.3	4.4	1.1	2.2
257662	**Olfr1290**	olfactory receptor 1290	2.3	3.4	4.7	3.4	2.9	4.0	1.1	2.2
241452	**Dhrs9**	dehydrogenase/reductase (SDR family) member 9	4.0	4.2	5.2	5.3	4.1	5.3	1.1	2.2
56743	**Lat2**	linker for activation of T cells family, member 2	6.3	6.3	7.4	7.4	6.3	7.4	1.1	2.2
11846	**Arg1**	arginase, liver	3.8	3.4	4.3	5.2	3.6	4.7	1.1	2.2
665521	**BC080696**	cDNA sequence BC080696	3.5	4.0	4.7	5.0	3.7	4.8	1.1	2.2
18830	**Pltp**	phospholipid transfer protein	5.4	5.5	7.1	6.1	5.5	6.6	1.1	2.2
218442	**Serinc5**	serine incorporator 5	5.2	5.0	5.7	6.7	5.1	6.2	1.1	2.2
171209	**Asic3**	acid-sensing (proton-gated) ion channel 3	3.1	3.3	5.1	3.5	3.2	4.3	1.1	2.1
232975	**Atp1a3**	ATPase, Na+/K+ transporting, alpha 3 polypeptide	5.6	5.3	6.0	7.2	5.5	6.6	1.1	2.1
20305	**Ccl6**	chemokine (C-C motif) ligand 6	6.6	7.8	6.5	10.1	7.2	8.3	1.1	2.1
329679	**Fnip2**	folliculin interacting protein 2	6.2	6.5	7.1	7.7	6.3	7.4	1.1	2.1
83924	**Gpr137b**	G protein-coupled receptor 137B	6.4	5.8	6.8	7.6	6.1	7.2	1.1	2.1

15950	**Ifi203**	interferon activated gene 203	3.4	3.1	5.0	3.7	3.2	4.3	1.1	2.1
213391	**Rassf4**	Ras association (RalGDS/AF-6) domain family member 4	4.6	3.4	4.9	5.3	4.0	5.1	1.1	2.1
76408	**Abcc3**	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	5.0	4.2	5.9	5.5	4.6	5.7	1.1	2.1
620551	**LOC620551**	PRAME family member 5-like	3.3	3.9	4.8	4.5	3.6	4.7	1.1	2.1
20354	**Sema4d**	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	4.3	4.1	5.1	5.4	4.2	5.3	1.1	2.1
20612	**Siglec1**	sialic acid binding Ig-like lectin 1, sialoadhesin	4.6	4.0	5.0	5.8	4.3	5.4	1.1	2.1
65221	**Slc15a3**	solute carrier family 15, member 3	7.3	7.4	8.1	8.8	7.3	8.4	1.1	2.1
320148	**B430306N03Rik**	RIKEN cDNA B430306N03 gene	4.2	4.1	4.7	5.7	4.1	5.2	1.1	2.1
12229	**Btk**	Bruton agammaglobulinemia tyrosine kinase	4.3	4.0	5.1	5.4	4.1	5.2	1.1	2.1
17474	**Clec4d**	C-type lectin domain family 4, member d	8.4	8.2	9.1	9.6	8.3	9.3	1.1	2.1
100316820	**Mir1970**	microRNA 1970	3.8	3.7	4.9	4.8	3.8	4.9	1.1	2.1
100628621	**Mir3961**	microRNA 3961	4.9	4.0	5.6	5.4	4.4	5.5	1.1	2.1
20611	**Ssty1**	spermiogenesis specific transcript on the Y 1	5.0	5.9	6.6	6.4	5.4	6.5	1.1	2.1
226409	**Zranb3**	zinc finger, RAN-binding domain containing 3	4.3	4.6	5.2	5.9	4.5	5.6	1.1	2.1
232201	**Arhgap25**	Rho GTPase activating protein 25	4.8	5.4	5.7	6.7	5.1	6.2	1.1	2.1
380732	**Milr1**	mast cell immunoglobulin like receptor 1	4.5	4.4	5.5	5.4	4.4	5.5	1.1	2.1
320024	**Nceh1**	neutral cholesterol ester hydrolase 1	8.0	7.9	8.9	9.2	8.0	9.0	1.1	2.1
14051	**Eya4**	eyes absent 4 homolog (Drosophila)	3.3	2.8	4.4	3.8	3.1	4.1	1.1	2.1
67731	**Fbxo32**	F-box protein 32	4.3	4.3	4.7	6.0	4.3	5.4	1.1	2.1
14176	**Fgf5**	fibroblast growth factor 5	4.1	3.8	4.4	5.6	3.9	5.0	1.1	2.1
237436	**Gas2l3**	growth arrest-specific 2 like 3	5.2	5.7	6.1	6.9	5.4	6.5	1.1	2.1
16114	**Igk-V28**	immunoglobulin kappa chain variable 28 (V28)	4.9	4.3	5.8	5.5	4.6	5.7	1.1	2.1
319480	**Itga11**	integrin alpha 11	4.0	4.0	6.1	4.0	4.0	5.1	1.1	2.1
320024	**Nceh1**	neutral cholesterol ester hydrolase 1	8.0	7.9	9.0	9.1	8.0	9.1	1.1	2.1
20846	**Stat1**	signal transducer and activator of transcription 1	5.9	5.6	7.2	6.5	5.8	6.8	1.1	2.1
12053	**Bcl6**	B cell leukemia/lymphoma 6	6.4	6.1	7.6	7.0	6.2	7.3	1.1	2.1
12606	**Cebpa**	CCAAT/enhancer binding protein (C/EBP), alpha	4.6	4.3	5.3	5.7	4.4	5.5	1.1	2.1
19141	**Lgmn**	legumain	8.4	8.3	9.3	9.4	8.3	9.4	1.1	2.1
241633	**Atp8b4**	ATPase, class I, type 8B, member 4	3.2	3.1	4.1	4.3	3.2	4.2	1.0	2.1
12362	**Casp1**	caspase 1	5.5	5.8	6.8	6.6	5.7	6.7	1.0	2.1
100628574	**Mir28b**	microRNA 28b	4.0	5.3	6.1	5.2	4.6	5.7	1.0	2.1

19200	**Pstpip1**	proline-serine-threonine phosphatase-interacting protein 1	5.0	5.3	5.9	6.4	5.1	6.2	1.0	2.1
18173	**Slc11a1**	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1	5.0	4.9	5.5	6.4	4.9	6.0	1.0	2.1
18636	**Cfp**	complement factor properdin	5.1	4.4	5.1	6.4	4.8	5.8	1.0	2.0
14127	**Fcer1g**	Fc receptor, IgE, high affinity I, gamma polypeptide	9.6	9.2	10.4	10.5	9.4	10.5	1.0	2.0
16186	**Il2rg**	interleukin 2 receptor, gamma chain	6.4	6.1	6.6	8.0	6.2	7.3	1.0	2.0
17101	**Lyst**	lysosomal trafficking regulator	5.5	5.6	6.3	6.9	5.6	6.6	1.0	2.0
667742	**Piezo2**	piezo-type mechanosensitive ion channel component 2	3.6	4.2	5.4	4.4	3.9	4.9	1.0	2.0
19332	**Rab20**	RAB20, member RAS oncogene family	4.4	4.1	5.4	5.2	4.3	5.3	1.0	2.0
11980	**Atp8a1**	ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1	3.6	3.4	4.2	4.8	3.5	4.5	1.0	2.0
14247	**Fli1**	Friend leukemia integration 1	5.4	5.4	6.2	6.7	5.4	6.4	1.0	2.0
211401	**Mtss1**	metastasis suppressor 1	6.6	6.5	7.7	7.4	6.5	7.6	1.0	2.0
17951	**Naip5**	NLR family, apoptosis inhibitory protein 5	4.1	3.5	4.1	5.5	3.8	4.8	1.0	2.0
241062	**Pgap1**	post-GPI attachment to proteins 1	5.2	5.4	5.6	7.1	5.3	6.3	1.0	2.0
19850	**Rnu3a**	U3A small nuclear RNA	3.2	3.3	4.2	4.3	3.2	4.3	1.0	2.0
69583	**Tnfsf13**	tumor necrosis factor (ligand) superfamily, member 13	6.0	6.0	6.8	7.3	6.0	7.0	1.0	2.0
20303	**Ccl4**	chemokine (C-C motif) ligand 4	5.7	6.1	6.9	6.9	5.9	6.9	1.0	2.0
12483	**Cd22**	CD22 antigen	3.7	3.8	4.1	5.5	3.8	4.8	1.0	2.0
234356	**Csgalnact1**	chondroitin sulfate N-acetylgalactosaminyltransferase 1	3.5	3.4	5.2	3.7	3.5	4.5	1.0	2.0
100041034	**LOC100041034**	Sp110 nuclear body protein-like	5.8	5.3	6.4	6.7	5.5	6.5	1.0	2.0
320139	**Ptpn7**	protein tyrosine phosphatase, non-receptor type 7	4.2	4.1	5.1	5.3	4.2	5.2	1.0	2.0
57319	**Smpdl3a**	sphingomyelin phosphodiesterase, acid-like 3A	6.7	6.4	7.3	7.9	6.6	7.6	1.0	2.0
652925	**Tmem243**	transmembrane protein 243, mitochondrial	3.8	4.2	4.8	5.3	4.0	5.0	1.0	2.0
12262	**C1qc**	complement component 1, q subcomponent, C chain	7.1	7.2	8.1	8.1	7.1	8.1	1.0	2.0
101056308	**LOC101056308**	Y-linked testis-specific protein 1-like	3.5	3.9	4.9	4.5	3.7	4.7	1.0	2.0
140795	**P2ry14**	purinergic receptor P2Y, G-protein coupled, 14	3.2	3.7	3.6	5.3	3.5	4.5	1.0	2.0
11835	**Ar**	androgen receptor	5.1	4.9	3.8	4.1	5.0	4.0	-1.0	-2.0
19716	**Bex1**	brain expressed gene 1	5.7	6.4	3.2	6.9	6.1	5.1	-1.0	-2.0
241520	**Fam171b**	family with sequence similarity 171, member B	4.3	4.8	3.5	3.6	4.5	3.5	-1.0	-2.0
18481	**Pak3**	p21 protein (Cdc42/Rac)-activated kinase 3	4.8	4.7	3.8	3.7	4.7	3.7	-1.0	-2.0

76969	**Chst1**	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1	4.6	4.6	3.9	3.2	4.6	3.6	-1.0	-2.0
71785	**Pdgfd**	platelet-derived growth factor, D polypeptide	6.6	5.9	5.6	4.8	6.2	5.2	-1.0	-2.0
20289	**Scx**	scleraxis	3.4	4.8	2.8	3.3	4.1	3.1	-1.0	-2.0
21873	**Tjp2**	tight junction protein 2	6.6	6.2	5.3	5.4	6.4	5.4	-1.0	-2.0
217310	**Hid1**	HID1 domain containing	4.7	5.0	3.7	3.9	4.8	3.8	-1.0	-2.0
100604	**Lrrc8c**	leucine rich repeat containing 8 family, member C	8.2	8.1	6.6	7.7	8.2	7.1	-1.0	-2.0
14013	**Mecom**	MDS1 and EVI1 complex locus	4.1	4.1	3.1	3.0	4.1	3.1	-1.0	-2.0
235505	**Cd109**	CD109 antigen	7.0	8.2	6.4	6.7	7.6	6.6	-1.0	-2.1
12583	**Cdo1**	cysteine dioxygenase 1, cytosolic	7.9	8.6	7.1	7.3	8.2	7.2	-1.0	-2.1
13874	**Ereg**	epiregulin	8.7	8.3	7.2	7.8	8.5	7.5	-1.0	-2.1
22762	**Zfpm2**	zinc finger protein, multitype 2	5.7	5.4	4.7	4.3	5.5	4.5	-1.0	-2.1
18214	**Ddr2**	discoidin domain receptor family, member 2	7.5	7.4	6.9	6.0	7.5	6.4	-1.1	-2.1
74754	**Dhcr24**	24-dehydrocholesterol reductase	7.4	7.5	6.7	6.1	7.5	6.4	-1.1	-2.1
66203	**Lce1m**	late cornified envelope 1M	5.3	4.6	3.9	3.9	4.9	3.9	-1.1	-2.1
19223	**Ptgis**	prostaglandin I2 (prostacyclin) synthase	7.5	8.2	6.7	6.9	7.8	6.8	-1.1	-2.1
216363	**Rab3ip**	RAB3A interacting protein	7.4	7.5	6.6	6.1	7.4	6.4	-1.1	-2.1
24052	**Sgcd**	sarcoglycan, delta (dystrophin-associated glycoprotein)	5.7	5.7	4.5	4.8	5.7	4.7	-1.1	-2.1
20983	**Syt4**	synaptotagmin IV	5.9	3.3	3.5	3.5	4.6	3.5	-1.1	-2.1
11752	**Anxa8**	annexin A8	4.6	4.6	3.7	3.4	4.6	3.6	-1.1	-2.1
14457	**Gas7**	growth arrest specific 7	6.1	5.8	4.4	5.4	5.9	4.9	-1.1	-2.1
69884	**2010300F17Rik**	RIKEN cDNA 2010300F17 gene	5.8	4.3	4.0	3.9	5.0	4.0	-1.1	-2.1
320692	**9430037G07Rik**	RIKEN cDNA 9430037G07 gene	5.4	3.9	3.5	3.6	4.6	3.6	-1.1	-2.1
20315	**Cxcl12**	chemokine (C-X-C motif) ligand 12	9.1	10.1	8.6	8.5	9.6	8.5	-1.1	-2.1
207683	**Igsf11**	immunoglobulin superfamily, member 11	6.8	6.6	5.0	6.3	6.7	5.6	-1.1	-2.1
107065	**Lrrtm2**	leucine rich repeat transmembrane neuronal 2	4.2	4.6	3.2	3.5	4.4	3.3	-1.1	-2.1
68458	**Ppp1r14a**	protein phosphatase 1, regulatory (inhibitor) subunit 14A	4.6	3.4	3.2	2.8	4.0	3.0	-1.1	-2.1
240725	**Sulf1**	sulfatase 1	9.3	9.5	8.7	8.0	9.4	8.4	-1.1	-2.1
69953	**2810025M15Rik**	RIKEN cDNA 2810025M15 gene	7.2	8.0	6.4	6.7	7.6	6.5	-1.1	-2.1
68567	**Cgref1**	cell growth regulator with EF hand domain 1	6.3	6.0	4.9	5.3	6.2	5.1	-1.1	-2.1
15551	**Htr1b**	5-hydroxytryptamine (serotonin) receptor 1B	6.2	5.6	4.7	5.0	5.9	4.8	-1.1	-2.1
381493	**S100a7a**	S100 calcium binding protein A7A	6.1	4.9	4.1	4.8	5.5	4.4	-1.1	-2.1
56496	**Tspan6**	tetraspanin 6	8.3	7.6	7.1	6.6	7.9	6.8	-1.1	-2.1
70892	**Ttll7**	tubulin tyrosine ligase-like family, member 7	5.5	6.1	4.8	4.7	5.8	4.7	-1.1	-2.1

14266	**Aff2**	AF4/FMR2 family, member 2	5.5	5.2	4.7	3.8	5.4	4.3	-1.1	-2.1
104943	**Fam110c**	family with sequence similarity 110, member C	4.6	4.2	3.3	3.3	4.4	3.3	-1.1	-2.1
14205	**Figf**	c-fos induced growth factor	6.3	7.3	6.6	4.9	6.8	5.8	-1.1	-2.1
20378	**Frzb**	frizzled-related protein	6.6	7.7	6.4	5.6	7.1	6.0	-1.1	-2.1
16447	**Ivl**	involucrin	6.5	4.3	4.0	4.6	5.4	4.3	-1.1	-2.1
21956	**Tnnt2**	troponin T2, cardiac	5.7	5.8	4.3	5.0	5.8	4.7	-1.1	-2.1
12269	**C4bp**	complement component 4 binding protein	4.9	4.8	4.1	3.4	4.9	3.8	-1.1	-2.1
12389	**Cav1**	caveolin 1, caveolae protein	8.1	7.7	6.6	6.9	7.9	6.8	-1.1	-2.1
73379	**Dcbld2**	discoidin, CUB and LCCL domain containing 2	7.4	6.9	6.5	5.6	7.1	6.0	-1.1	-2.1
67350	**1700084E18Rik**	RIKEN cDNA 1700084E18 gene	4.8	3.9	3.1	3.4	4.3	3.2	-1.1	-2.2
66175	**Mustn1**	musculoskeletal, embryonic nuclear protein 1	9.8	8.6	8.7	7.5	9.2	8.1	-1.1	-2.2
269233	**Fam171a1**	family with sequence similarity 171, member A1	6.3	6.6	5.1	5.6	6.4	5.3	-1.1	-2.2
329628	**Fat4**	FAT tumor suppressor homolog 4 (Drosophila)	5.2	5.2	4.2	4.1	5.2	4.1	-1.1	-2.2
77446	**Heg1**	HEG homolog 1 (zebrafish)	7.7	8.2	7.4	6.3	7.9	6.8	-1.1	-2.2
100503380	**Snhg4**	small nucleolar RNA host gene 4	4.7	4.2	3.1	3.4	4.4	3.3	-1.1	-2.2
23876	**Fbln5**	fibulin 5	8.4	8.9	8.2	6.8	8.6	7.5	-1.1	-2.2
16008	**Igfbp2**	insulin-like growth factor binding protein 2	6.5	7.8	6.7	5.4	7.2	6.1	-1.1	-2.2
233726	**Ipo7**	importin 7	7.9	7.4	6.5	6.5	7.6	6.5	-1.1	-2.2
13642	**Efnb2**	ephrin B2	7.8	7.7	6.6	6.7	7.8	6.6	-1.1	-2.2
67374	**Jam2**	junction adhesion molecule 2	8.8	9.2	7.8	7.9	9.0	7.9	-1.1	-2.2
68404	**Nrn1**	neuritin 1	7.1	7.6	5.4	7.0	7.4	6.2	-1.1	-2.2
71720	**Osbpl3**	oxysterol binding protein-like 3	4.8	5.0	3.4	4.1	4.9	3.7	-1.1	-2.2
19243	**Ptp4a1**	protein tyrosine phosphatase 4a1	6.4	5.8	4.6	5.4	6.1	5.0	-1.1	-2.2
72780	**Rspo3**	R-spondin 3 homolog (Xenopus laevis)	6.2	6.4	6.0	4.4	6.3	5.2	-1.1	-2.2
217410	**Trib2**	tribbles homolog 2 (Drosophila)	5.9	6.3	5.3	4.6	6.1	4.9	-1.1	-2.2
12064	**Bdnf**	brain derived neurotrophic factor	5.6	5.2	4.5	4.0	5.4	4.3	-1.2	-2.2
14677	**Gnai1**	guanine nucleotide binding protein (G protein), alpha inhibiting 1	6.3	7.0	5.6	5.5	6.7	5.5	-1.2	-2.2
22160	**Twist1**	twist basic helix-loop-helix transcription factor 1	6.1	6.5	5.3	5.0	6.3	5.1	-1.2	-2.2
73720	**Cst6**	cystatin E/M	5.4	5.3	4.3	4.1	5.3	4.2	-1.2	-2.2
319146	**Ifnz**	interferon zeta	5.2	4.5	3.8	3.7	4.9	3.7	-1.2	-2.2
23959	**Nt5e**	5' nucleotidase, ecto	4.7	4.3	3.1	3.5	4.5	3.3	-1.2	-2.3
19272	**Ptprk**	protein tyrosine phosphatase, receptor type, K	7.0	6.9	5.6	6.0	7.0	5.8	-1.2	-2.3
20197	**S100a3**	S100 calcium binding protein A3	5.3	5.1	3.9	4.1	5.2	4.0	-1.2	-2.3

100217453	**Snord16a**	small nucleolar RNA, C/D box 16A	7.0	6.5	5.3	5.8	6.7	5.6	-1.2	-2.3
11421	**Ace**	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	3.4	4.8	2.9	2.9	4.1	2.9	-1.2	-2.3
170757	**Eltd1**	EGF, latrophilin seven transmembrane domain containing 1	5.1	3.6	3.1	3.2	4.4	3.2	-1.2	-2.3
53614	**Reck**	reversion-inducing-cysteine-rich protein with kazal motifs	6.9	7.4	6.1	5.8	7.2	6.0	-1.2	-2.3
58994	**Smpd3**	sphingomyelin phosphodiesterase 3, neutral	5.4	4.4	3.8	3.7	4.9	3.7	-1.2	-2.3
13797	**Emx2**	empty spiracles homeobox 2	5.2	4.0	3.7	3.1	4.6	3.4	-1.2	-2.3
16773	**Lama2**	laminin, alpha 2	6.2	6.3	5.0	5.1	6.3	5.1	-1.2	-2.3
17386	**Mmp13**	matrix metallopeptidase 13	8.3	9.1	6.8	8.1	8.7	7.5	-1.2	-2.3
22329	**Vcam1**	vascular cell adhesion molecule 1	8.2	8.3	7.2	6.9	8.2	7.0	-1.2	-2.3
217887	**BC022687**	cDNA sequence BC022687	6.7	6.6	5.4	5.4	6.6	5.4	-1.2	-2.3
19224	**Ptgs1**	prostaglandin-endoperoxide synthase 1	7.1	7.8	5.9	6.5	7.4	6.2	-1.2	-2.3
14611	**Gja3**	gap junction protein, alpha 3	5.1	3.5	3.2	2.8	4.3	3.0	-1.2	-2.3
13876	**Erg**	avian erythroblastosis virus E-26 (v-ets) oncogene related	4.6	4.4	3.2	3.3	4.5	3.3	-1.2	-2.3
16669	**Krt19**	keratin 19	4.5	4.6	3.4	3.3	4.6	3.3	-1.2	-2.3
216459	**Myl6b**	myosin, light polypeptide 6B	5.6	5.5	4.5	4.2	5.6	4.3	-1.2	-2.3
18788	**Serpinb2**	serine (or cysteine) peptidase inhibitor, clade B, member 2	7.8	6.1	4.1	7.3	6.9	5.7	-1.2	-2.3
20042	**Rps12**	ribosomal protein S12	4.9	4.6	3.3	3.7	4.7	3.5	-1.2	-2.4
97848	**Serpinb6c**	serine (or cysteine) peptidase inhibitor, clade B, member 6c	7.1	5.7	5.7	4.5	6.4	5.1	-1.3	-2.4
23967	**Osr1**	odd-skipped related 1 (Drosophila)	7.9	9.0	7.6	6.8	8.5	7.2	-1.3	-2.4
16367	**Irs1**	insulin receptor substrate 1	6.2	5.7	4.8	4.6	6.0	4.7	-1.3	-2.4
13395	**Dlx5**	distal-less homeobox 5	3.0	5.2	3.0	2.6	4.1	2.8	-1.3	-2.4
110454	**Ly6a**	lymphocyte antigen 6 complex, locus A	8.1	10.1	8.1	7.6	9.1	7.9	-1.3	-2.4
73904	**4833412C05Rik**	RIKEN cDNA 4833412C05 gene	5.9	4.9	3.9	4.3	5.4	4.1	-1.3	-2.4
14461	**Gata2**	GATA binding protein 2	4.7	4.3	3.3	3.1	4.5	3.2	-1.3	-2.5
279653	**Pcdh19**	protocadherin 19	7.3	6.7	5.9	5.6	7.0	5.7	-1.3	-2.5
109294	**Prex2**	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2	5.5	5.5	4.3	4.1	5.5	4.2	-1.3	-2.5
229672	**Bcl2l15**	BCLl2-like 15	5.4	4.9	3.1	4.7	5.2	3.9	-1.3	-2.5
216616	**Efemp1**	epidermal growth factor-containing fibulin-like extracellular matrix protein 1	7.9	9.6	7.8	7.1	8.8	7.5	-1.3	-2.5
11668	**Aldh1a1**	aldehyde dehydrogenase family 1, subfamily A1	7.8	7.0	6.6	5.5	7.4	6.1	-1.3	-2.5
407828	**BC023969**	cDNA sequence BC023969	3.8	5.7	3.3	3.5	4.7	3.4	-1.3	-2.5
216831	**Arhgap44**	Rho GTPase activating protein 44	6.4	6.4	5.3	4.9	6.4	5.1	-1.3	-2.5
211323	**Nrg1**	neuregulin 1	6.6	5.6	4.8	4.7	6.1	4.8	-1.3	-2.5

16398	**Itga2**	integrin alpha 2	6.5	6.7	4.6	5.8	6.6	5.2	-1.4	-2.6
433619	**Kprp**	keratinocyte expressed, proline-rich	7.2	5.5	5.0	4.8	6.3	4.9	-1.4	-2.7
27273	**Pdk4**	pyruvate dehydrogenase kinase, isoenzyme 4	7.5	6.6	5.5	5.8	7.1	5.6	-1.4	-2.7
94242	**Tinagl1**	tubulointerstitial nephritis antigen-like 1	6.7	7.3	5.5	5.7	7.0	5.6	-1.4	-2.7
14600	**Ghr**	growth hormone receptor	7.7	7.4	6.3	6.1	7.6	6.2	-1.4	-2.7
73738	**Haus7**	HAUS augmin-like complex, subunit 7	5.6	6.4	4.7	4.5	6.0	4.6	-1.4	-2.7
15483	**Hsd11b1**	hydroxysteroid 11-beta dehydrogenase 1	5.3	7.2	5.0	4.6	6.2	4.8	-1.4	-2.7
29818	**Hspb7**	heat shock protein family, member 7 (cardiovascular)	7.6	8.1	6.4	6.4	7.9	6.4	-1.4	-2.7
11731	**Ang2**	angiogenin, ribonuclease A family, member 2	7.4	7.7	5.9	6.2	7.5	6.0	-1.5	-2.8
12161	**Bmp6**	bone morphogenetic protein 6	5.0	4.8	3.6	3.2	4.9	3.4	-1.5	-2.8
73173	**Pcdh18**	protocadherin 18	6.8	6.1	5.2	4.8	6.4	5.0	-1.5	-2.8
223881	**Rnd1**	Rho family GTPase 1	5.8	6.1	4.5	4.5	6.0	4.5	-1.5	-2.8
110058	**Syt17**	synaptotagmin XVII	7.0	7.0	5.2	5.9	7.0	5.5	-1.5	-2.8
54195	**Gucy1b3**	guanylate cyclase 1, soluble, beta 3	6.2	5.3	4.1	4.4	5.8	4.3	-1.5	-2.8
19124	**Procr**	protein C receptor, endothelial	8.0	6.8	5.8	6.1	7.4	5.9	-1.5	-2.8
654795	**Sdr39u1**	short chain dehydrogenase/reductase family 39U, member 1	7.1	4.8	4.1	4.9	6.0	4.5	-1.5	-2.8
56429	**Dpt**	dermatopontin	6.9	5.8	4.4	5.3	6.4	4.8	-1.5	-2.8
224792	**Gpr116**	G protein-coupled receptor 116	4.9	4.3	3.0	3.1	4.6	3.1	-1.5	-2.9
26415	**Mapk13**	mitogen-activated protein kinase 13	6.6	6.6	4.8	5.4	6.6	5.1	-1.5	-2.9
18383	**Tnfrsf11b**	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	7.6	7.9	6.5	6.0	7.8	6.2	-1.5	-2.9
13024	**Ctla2a**	cytotoxic T lymphocyte-associated protein 2 alpha	9.5	8.7	7.9	7.2	9.1	7.6	-1.5	-2.9
76400	**Pbp2**	phosphatidylethanolamine binding protein 2	5.7	4.6	4.0	3.2	5.1	3.6	-1.5	-2.9
228765	**Sdcbp2**	syndecan binding protein (syntenin) 2	7.0	5.4	4.7	4.6	6.2	4.7	-1.5	-2.9
20706	**Serpinb9b**	serine (or cysteine) peptidase inhibitor, clade B, member 9b	9.4	9.1	8.0	7.4	9.2	7.7	-1.5	-2.9
12484	**Cd24a**	CD24a antigen	9.4	8.5	6.3	8.6	9.0	7.4	-1.6	-3.0
14858	**Gsta2**	glutathione S-transferase, alpha 2 (Yc2)	5.7	6.1	4.4	4.2	5.9	4.3	-1.6	-3.0
20682	**Sox9**	SRY (sex determining region Y)-box 9	5.1	6.6	3.9	4.6	5.8	4.2	-1.6	-3.0
22634	**Plagl1**	pleiomorphic adenoma gene-like 1	5.6	6.3	3.5	5.2	6.0	4.4	-1.6	-3.0
12349	**Car2**	carbonic anhydrase 2	6.1	5.2	3.8	4.3	5.7	4.0	-1.6	-3.1
268977	**Ltbp1**	latent transforming growth factor beta binding protein 1	6.7	7.4	5.2	5.6	7.0	5.4	-1.6	-3.1
13614	**Edn1**	endothelin 1	8.8	7.8	6.6	6.8	8.3	6.7	-1.7	-3.2

13640	**Efna5**	ephrin A5	6.2	6.6	4.3	5.1	6.4	4.7	-1.7	-3.2
11459	**Acta1**	actin, alpha 1, skeletal muscle	8.8	7.7	5.6	7.6	8.2	6.6	-1.7	-3.2
232431	**Gprc5a**	G protein-coupled receptor, family C, group 5, member A	4.6	4.8	2.6	3.4	4.7	3.0	-1.7	-3.2
68178	**Cgnl1**	cingulin-like 1	7.7	7.3	5.6	6.1	7.5	5.8	-1.7	-3.2
68052	**Rps13**	ribosomal protein S13	4.3	4.5	2.6	2.8	4.4	2.7	-1.7	-3.2
11435	**Chrna1**	cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle)	3.7	5.1	2.7	2.7	4.4	2.7	-1.7	-3.3
14368	**Fzd6**	frizzled homolog 6 (Drosophila)	5.8	4.7	3.4	3.6	5.2	3.5	-1.7	-3.3
16400	**Itga3**	integrin alpha 3	5.4	5.1	3.3	3.7	5.2	3.5	-1.7	-3.3
64058	**Perp**	PERP, TP53 apoptosis effector	6.2	5.0	3.9	3.9	5.6	3.9	-1.7	-3.3
17389	**Mmp16**	matrix metallopeptidase 16	4.7	5.1	3.3	3.1	4.9	3.2	-1.7	-3.3
320092	**E030003E18Rik**	RIKEN cDNA E030003E18 gene	5.9	5.1	4.5	3.1	5.5	3.8	-1.8	-3.4
224093	**Fam43a**	family with sequence similarity 43, member A	6.3	6.6	5.2	4.2	6.5	4.7	-1.8	-3.4
20324	**Sdpr**	serum deprivation response	8.9	9.5	7.5	7.4	9.2	7.4	-1.8	-3.4
13717	**Eln**	elastin	5.1	6.6	4.0	4.1	5.8	4.0	-1.8	-3.5
67718	**Lce1h**	late cornified envelope 1H	7.7	3.3	3.7	3.7	5.5	3.7	-1.8	-3.5
20708	**Serpinb6b**	serine (or cysteine) peptidase inhibitor, clade B, member 6b	8.3	7.9	6.7	5.9	8.1	6.3	-1.8	-3.5
14725	**Lrp2**	low density lipoprotein receptor-related protein 2	5.2	4.1	2.8	2.9	4.7	2.8	-1.8	-3.5
16891	**Lipg**	lipase, endothelial	5.0	4.6	2.7	3.2	4.8	3.0	-1.8	-3.6
67828	**Lce1f**	late cornified envelope 1F	7.2	3.1	3.3	3.2	5.1	3.3	-1.9	-3.6
18104	**Nqo1**	NAD(P)H dehydrogenase, quinone 1	7.3	7.4	5.0	5.9	7.3	5.5	-1.9	-3.7
105450	**Mmrn2**	multimerin 2	6.3	5.3	3.7	4.1	5.8	3.9	-1.9	-3.8
71690	**Esm1**	endothelial cell-specific molecule 1	8.1	8.2	5.9	6.5	8.2	6.2	-1.9	-3.8
94253	**Hecw1**	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1	6.1	4.9	3.8	3.2	5.5	3.5	-2.0	-4.1
105349	**Akr1c18**	aldo-keto reductase family 1, member C18	5.6	8.0	4.0	5.3	6.8	4.7	-2.1	-4.3
101772	**Ano1**	anoctamin 1, calcium activated chloride channel	5.1	4.7	2.7	2.8	4.9	2.7	-2.1	-4.4
21892	**Tll1**	tolloid-like	8.4	8.0	5.6	6.5	8.2	6.1	-2.1	-4.4
69325	**1700012B09Rik**	RIKEN cDNA 1700012B09 gene	5.8	6.9	3.7	4.5	6.4	4.1	-2.3	-4.9
12159	**Bmp4**	bone morphogenetic protein 4	7.5	7.8	6.6	4.1	7.7	5.4	-2.3	-5.1
319154	**Hist2h3b**	histone cluster 2, H3b	6.2	4.5	2.5	3.5	5.4	3.0	-2.4	-5.2
22268	**Upk1b**	uroplakin 1B	9.2	5.8	4.3	5.9	7.5	5.1	-2.4	-5.2
12490	**Cd34**	CD34 antigen	7.0	5.8	3.5	4.5	6.4	4.0	-2.4	-5.3
114301	**Palmd**	palmdelphin	6.1	5.2	3.3	3.1	5.6	3.2	-2.4	-5.4
20344	**Selp**	selectin, platelet	6.3	6.5	3.9	4.1	6.4	4.0	-2.5	-5.5
59308	**Emcn**	endomucin	9.3	8.1	6.0	6.5	8.7	6.2	-2.5	-5.6
18613	**Pecam1**	platelet/endothelial cell adhesion molecule 1	6.7	6.3	3.9	4.1	6.5	4.0	-2.5	-5.6

12562	**Cdh5**	cadherin 5	8.7	7.0	5.0	5.7	7.8	5.3	-2.5	-5.7
18812	**Prl2c3**	prolactin family 2, subfamily c, member 3	9.5	9.0	6.4	6.6	9.2	6.5	-2.7	-6.6
18812	**Prl2c3**	prolactin family 2, subfamily c, member 3	9.3	9.0	6.2	6.6	9.1	6.4	-2.7	-6.7
223272	**Itgbl1**	integrin, beta-like 1	7.6	7.7	4.5	5.2	7.6	4.9	-2.8	-6.7
76294	**Asb5**	ankyrin repeat and SOCs box-containing 5	7.8	6.9	3.7	5.4	7.3	4.6	-2.8	-6.8
240873	**Tnfsf18**	tumor necrosis factor (ligand) superfamily, member 18	9.1	7.0	4.5	6.0	8.0	5.2	-2.8	-7.1
20753	**Sprr1a**	small proline-rich protein 1A	8.6	9.6	5.4	7.1	9.1	6.2	-2.8	-7.2
19263	**Ptprb**	protein tyrosine phosphatase, receptor type, B	6.5	6.4	3.7	3.5	6.4	3.6	-2.9	-7.4
228576	**Mall**	mal, T cell differentiation protein-like	8.2	5.7	4.4	3.6	7.0	4.0	-3.0	-7.9
72381	**2210409E12Rik**	transcription elongation factor B (SIII), polypeptide 2 pseudogene	6.4	6.0	4.0	2.3	6.2	3.2	-3.0	-8.1
12319	**Car8**	carbonic anhydrase 8	7.3	7.2	4.4	4.0	7.2	4.2	-3.0	-8.1
68632	**Myct1**	myc target 1	7.4	6.7	3.9	4.2	7.1	4.0	-3.0	-8.1
74175	**Crct1**	cysteine-rich C-terminal 1	6.6	6.4	3.1	3.8	6.5	3.4	-3.1	-8.3
224796	**Clic5**	chloride intracellular channel 5	6.4	6.9	2.9	3.1	6.7	3.0	-3.7	-12.6

Figure S1. Arterial trees dissected from *Cre(-)*, *SM22α-Cre(+)*, and *aP2-Cre(+) MMP14$^{F/F}$Apoe$^{-/-}$* male and female mice after a 12-week Western diet.

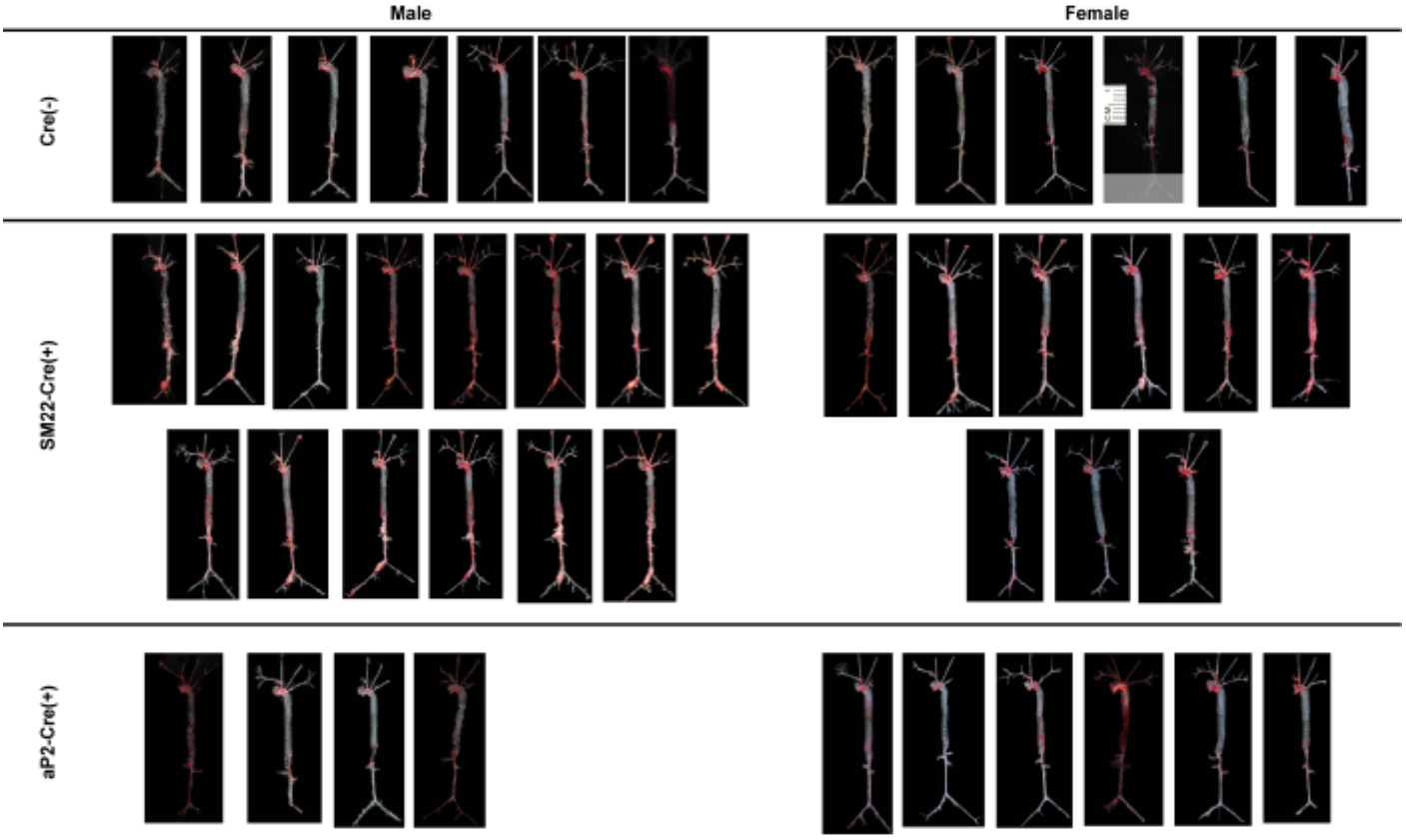

Figure S2. Gene expression of Acta2(α-SMA), Cre enzyme, MT1-MMP (MMP14), MMP2, MMP8, MMP9, MMP13, and MT2-MMP (MMP15) in primary VSMCs isolated from *Cre(-)* and *SM22α-Cre(+) MMP14$^{F/F}$Apoe$^{-/-}$* mice. Almost complete suppression of MT1-MMP expression in primary VSMCs was confirmed coupled with SM22-dependent Cre expression. Expression of other MMPs was not affected. *** P<0.001