

**Supplemental Table 1:** List of the 570 genes with conserved Stat3 binding sites (CBS) in at least four species differentially expressed between C56BL/6 and FVB/N remnant kidneys 60 days after nephron reduction.

Gene Symbol	Ratio	CBS in	Name
Abhd1	27.86	5 species	abhydrolase domain containing 1
Pi4k2b	19.99	4 species	phosphatidylinositol 4-kinase type 2 beta
Pik3c2g	11.64	4 species	phosphoinositide-3-kinase, class 2, gamma polypeptide
Snap91	11.31	4 species	synaptosomal-associated protein, 91kDa homolog (mouse)
Ocell1	10.58	≥ 6 species	occludin/ELL domain containing 1
Slc34a2	8.86	4 species	solute carrier family 34 (sodium phosphate), member 2
Psmc3ip	8.68	≥ 6 species	PSMC3 interacting protein
Hddc3	7.17	≥ 6 species	HD domain containing 3
Lcn2	6.52	4 species	lipocalin 2
Pea15a	5.09	5 species	phosphoprotein enriched in astrocytes 15
Gfr1	5.09	4 species	GDNF family receptor alpha 1
H2-DMb2	4.94	4 species	major histocompatibility complex, class II, DM beta
Atf3	4.88	4 species	activating transcription factor 3
Wdfy1	4.85	4 species	WD repeat and FYVE domain containing 1
Serpina10	4.73	4 species	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10
Pm20d1	4.71	4 species	peptidase M20 domain containing 1
Aldh4a1	4.35	4 species	aldehyde dehydrogenase 4 family, member A1
Wasf2	4.10	4 species	WAS protein family, member 2
Edn1	4.07	4 species	endothelin 1
Zkscan1	3.98	4 species	zinc finger with KRAB and SCAN domains 1
Cyr61	3.94	4 species	cysteine-rich, angiogenic inducer, 61
Adamts1	3.76	5 species	ADAM metalloproteinase with thrombospondin type 1 motif, 1
Fst	3.70	≥ 6 species	folliculin
Egr2	3.63	4 species	early growth response 2 (Krox-20 homolog, Drosophila)
Cep55	3.56	4 species	centrosomal protein 55kDa
Aspm	3.43	4 species	asp (abnormal spindle) homolog, microcephaly associated (Drosophila)
671322	3.43	4 species	chromosome 4 open reading frame 33
Itga1	3.34	4 species	integrin, alpha 1
Sik1	3.28	≥ 6 species	SNF1-like kinase
Timp1	3.27	4 species	TIMP metalloproteinase inhibitor 1
Ctps	3.24	4 species	CTP synthase
Lrg1	3.18	4 species	leucine-rich alpha-2-glycoprotein 1
Il17rb	3.15	4 species	interleukin 17 receptor B
Ubt2	3.12	4 species	ubiquitin domain containing 2
Rcan1	3.05	4 species	regulator of calcineurin 1
Socs3	3.03	4 species	suppressor of cytokine signaling 3
Egr1	3.00	4 species	early growth response 1
Anxa4	2.99	4 species	annexin A4
Col12a1	2.98	4 species	collagen, type XII, alpha 1
Ammecr1	2.96	4 species	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region, gene 1
Tlr2	2.91	4 species	toll-like receptor 2
Rrm2	2.91	5 species	ribonucleotide reductase M2 polypeptide
Ccl2	2.88	4 species	chemokine (C-C motif) ligand 13
Bcl3	2.88	4 species	B-cell CLL/lymphoma 3
Rragd	2.87	4 species	Ras-related GTP binding D
Cygb	2.84	4 species	cytoglobin
Tgm1	2.80	4 species	transglutaminase 1 (K polypeptide epidermal type I, protein-glutamine-gamma-glutamyltransferase)
LOC100045442	2.79	4 species	stromal antigen 1
Prc1	2.78	5 species	protein regulator of cytokinesis 1
Fgg	2.73	4 species	fibrinogen gamma chain
Cdca8	2.73	4 species	cell division cycle associated 8
Fos	2.70	4 species	v-fos FBJ murine osteosarcoma viral oncogene homolog
Zwilch	2.69	4 species	Zwilch, kinetochore associated, homolog (Drosophila)
LOC636537	2.63	4 species	signal sequence receptor, alpha (translocon-associated protein alpha)
Aldh1a2	2.61	4 species	aldehyde dehydrogenase 1 family, member A2
Myc	2.58	4 species	v-myc myelocytomatosis viral oncogene homolog (avian)
Tmem82	2.57	4 species	transmembrane protein 82
Egr3	2.53	4 species	early growth response 3
Adal	2.52	4 species	adenosine deaminase-like
Hpcal4	2.52	≥ 6 species	hippocalcin like 4
Ccna2	2.51	4 species	cyclin A2
Lgi2	2.49	4 species	leucine-rich repeat LGI family, member 2
Cks1b	2.48	4 species	CDC28 protein kinase regulatory subunit 1B

F3	2.47	4 species	coagulation factor III (thromboplastin, tissue factor)
Abcc9	2.45	4 species	ATP-binding cassette, sub-family C (CFTR/MRP), member 9
Tgfb2	2.43	4 species	transforming growth factor, beta 2
Tgif1	2.41	4 species	TGFB-induced factor homeobox 1
Gm71	2.40	4 species	gene model 71. (NCBI)
Slc40a1	2.39	≥ 6 species	solute carrier family 40 (iron-regulated transporter), member 1
Steap1	2.39	4 species	six transmembrane epithelial antigen of the prostate 1
LOC100046232	2.37	4 species	nuclear factor, interleukin 3 regulated
Socs2	2.36	5 species	suppressor of cytokine signaling 2
Rpl12	2.35	4 species	small nucleolar RNA, H/ACA box 65
Nr4a1	2.35	5 species	nuclear receptor subfamily 4, group A, member 1
Uchl1	2.32	4 species	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)
Csf1	2.31	4 species	colony stimulating factor 1 (macrophage)
Cnot7	2.30	5 species	CCR4-NOT transcription complex, subunit 7
Ccnl2	2.30	≥ 6 species	cyclin L2
Cxcr4	2.29	4 species	chemokine (C-X-C motif) receptor 4
Med1	2.29	4 species	mediator complex subunit 1
LOC100045677	2.27	4 species	minichromosome maintenance complex component 3
Pck1	2.25	≥ 6 species	phosphoenolpyruvate carboxykinase 1 (soluble)
Ptrh1	2.24	4 species	peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)
Id1	2.24	4 species	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
Josd1	2.23	≥ 6 species	Josephin domain containing 1
Aff2	2.23	4 species	---
Clcf1	2.23	4 species	cardiotrophin-like cytokine factor 1
Tpm3	2.21	4 species	tropomyosin 3
Ctgf	2.21	4 species	connective tissue growth factor
Il6st	2.19	5 species	interleukin 6 signal transducer (gp130, oncostatin M receptor)
Olfm4	2.16	4 species	olfactomedin 4
Dpysl3	2.16	4 species	dihydropyrimidinase-like 3
Icam1	2.16	5 species	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor
Mthfd2	2.16	4 species	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2.
1300014I06Rik	2.15	4 species	methenyltetrahydrofolate cyclohydrolase
Gart	2.15	4 species	chromosome 6 open reading frame 145
Zfp185	2.14	4 species	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
Myo1c	2.14	5 species	phosphoribosylaminoimidazole synthetase
OTTMUSG00000007332	2.14	4 species	zinc finger protein 185 (LIM domain)
Frg1	2.14	4 species	myosin IC
Plek	2.13	4 species	sushi domain containing 1
Adm	2.11	4 species	FSHD region gene 1
Tsr1	2.11	4 species	pleckstrin
Net1	2.09	4 species	adrenomedullin
Ywhah	2.09	4 species	TSR1, 20S rRNA accumulation, homolog (S. cerevisiae)
Rhobtb3	2.07	4 species	neuroepithelial cell transforming gene 1
Rrad	2.07	4 species	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta
Denn2a	2.07	4 species	polypeptide
Btg2	2.06	4 species	Rho-related BTB domain containing 3
Slc25a17	2.06	4 species	Ras-related associated with diabetes
Kras	2.06	4 species	DENN/MADD domain containing 2A
Parvb	2.06	4 species	BTG family, member 2
Per2	2.05	4 species	solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
Plau	2.04	4 species	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
Gng10	2.03	4 species	parvin, beta
Jun	2.03	4 species	period homolog 2 (Drosophila)
Crnk1l	2.02	4 species	plasminogen activator, urokinase
Ier2	2.01	4 species	guanine nucleotide binding protein (G protein), gamma 10
Commd2	2.01	4 species	jun oncogene
Sec61a1	2.00	4 species	crooked neck pre-mRNA splicing factor-like 1 (Drosophila)
Dynl1	2.00	4 species	immediate early response 2
Rnase4	2.00	4 species	COMM domain containing 2
Klf6	1.99	5 species	Sec61 alpha 1 subunit (S. cerevisiae)
Abca1	1.99	4 species	dynein, light chain, LC8-type 1
P2ry6	1.99	4 species	ribonuclease, RNase A family, 4
Pprc1	1.97	4 species	Kruppel-like factor 6
Shoc2	1.97	≥ 6 species	ATP-binding cassette, sub-family A (ABC1), member 1
Anxa2	1.97	4 species	pyrimidineric receptor P2Y, G-protein coupled, 6
Hs6st2	1.97	4 species	peroxisome proliferator-activated receptor gamma, coactivator-related 1
Nfkbie	1.97	4 species	soc-2 suppressor of clear homolog (C. elegans)
Tuft1	1.96	4 species	annexin A2
Trib1	1.95	4 species	heparan sulfate 6-O-sulfotransferase 2
Mobkl2a	1.95	4 species	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon
Mettl6	1.95	4 species	tuftelin 1
			tribbles homolog 1 (Drosophila)
			MOB1, Mps One Binder kinase activator-like 2A (yeast)
			methyltransferase like 6

Pdlim7	1.95	4 species	PDZ and LIM domain 7 (enigma)
Trim47	1.95	5 species	tripartite motif-containing 47
Akt1	1.94	4 species	v-akt murine thymoma viral oncogene homolog 1
Alg12	1.94	4 species	asparagine-linked glycosylation 12 homolog (S. cerevisiae, alpha-1,6-mannosyltransferase)
Marcks11	1.93	4 species	MARCKS-like 1
1810013L24Rik	1.93	5 species	chromosome 16 open reading frame 72
Kpna2	1.92	5 species	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
Acy1	1.92	4 species	aminoacylase 1
Fermt3	1.92	4 species	fermitin family homolog 3 (Drosophila)
Ier5	1.91	4 species	immediate early response 5
Coro1c	1.91	4 species	coronin, actin binding protein, 1C
Rgs5	1.90	4 species	regulator of G-protein signaling 5
S100a6	1.90	4 species	S100 calcium binding protein A6
Sphk1	1.89	5 species	sphingosine kinase 1
Plp2	1.89	4 species	proteolipid protein 2 (colonic epithelium-enriched)
Nasp	1.89	≥ 6 species	nuclear autoantigenic sperm protein (histone-binding)
Mcm4	1.88	4 species	minichromosome maintenance complex component 4
Plekho1	1.88	4 species	pleckstrin homology domain containing, family O member 1
Mad212	1.88	4 species	MAD2 mitotic arrest deficient-like 2 (yeast)
Smc2	1.87	4 species	structural maintenance of chromosomes 2
Creld2	1.87	4 species	cysteine-rich with EGF-like domains 2
Gtf2f2	1.87	4 species	general transcription factor IIF, polypeptide 2, 30kDa
Tifa	1.86	4 species	TRAF-interacting protein with a forkhead-associated domain
H2afx	1.86	4 species	H2A histone family, member X
Psmb10	1.86	5 species	proteasome (prosome, macropain) subunit, beta type, 10
C1qa	1.86	4 species	complement component 1, q subcomponent, A chain
Cxcl12	1.86	4 species	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)
Wdr1	1.86	4 species	WD repeat domain 1
Samd14	1.85	4 species	sterile alpha motif domain containing 14
Ddit4	1.85	4 species	DNA-damage-inducible transcript 4
Tap2	1.85	4 species	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Hspa5	1.84	4 species	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
Actn1	1.84	4 species	actinin, alpha 1
Fbxw9	1.84	4 species	F-box and WD repeat domain containing 9
Kpna3	1.84	4 species	karyopherin alpha 3 (importin alpha 4)
Cenpt	1.84	4 species	centromere protein T
5730559C18Rik	1.84	4 species	chromosome 1 open reading frame 106
Gas5	1.83	4 species	growth arrest-specific 5
Arih2	1.83	4 species	ariadne homolog 2 (Drosophila)
Fen1	1.83	5 species	flap structure-specific endonuclease 1
Tsc22d3	1.82	4 species	TSC22 domain family, member 3
Cep76	1.82	≥ 6 species	centrosomal protein 76kDa
Fbxo4	1.82	4 species	F-box protein 4
Laptm5	1.82	4 species	lysosomal associated multispinning membrane protein 5
Hivep2	1.82	≥ 6 species	human immunodeficiency virus type I enhancer binding protein 2
Gadd45a	1.81	4 species	growth arrest and DNA-damage-inducible, alpha
Arf6	1.81	4 species	ADP-ribosylation factor 6
Tmed2	1.80	4 species	transmembrane emp24 domain trafficking protein 2
Tpm1	1.80	4 species	tropomyosin 1 (alpha)
Pstpip2	1.80	5 species	proline-serine-threonine phosphatase interacting protein 2
Clcn2	1.79	4 species	chloride channel 2
LOC100046704	1.78	4 species	neuroblastoma RAS viral (v-ras) oncogene homolog
Efh2	1.78	4 species	EF-hand domain family, member D2
Mcm7	1.78	5 species	minichromosome maintenance complex component 7
Lmna	1.78	4 species	lamin A/C
Fn1	1.77	4 species	fibronectin 1
Ctbs	1.77	4 species	chitinase, di-N-acetyl-
Rras	1.77	4 species	related RAS viral (r-ras) oncogene homolog
Mobk11b	1.76	4 species	MOB1, Mps One Binder kinase activator-like 1B (yeast)
Ubr1	1.76	4 species	ubiquitin protein ligase E3 component n-recogin 1
Gdpd1	1.76	5 species	glycerophosphodiester phosphodiesterase domain containing 1
Gla	1.76	4 species	galactosidase, alpha
Rrm1	1.75	4 species	ribonucleotide reductase M1 polypeptide
Unc5b	1.75	4 species	unc-5 homolog B (C. elegans)
Trps1	1.74	≥ 6 species	trichorhinophalangeal syndrome 1
Gch1	1.74	4 species	GTP cyclohydrolase 1 (dopa-responsive dystonia)
Mrpl19	1.74	5 species	mitochondrial ribosomal protein L19
Xbp1	1.74	4 species	X-box binding protein 1
Fytd1	1.74	4 species	forty-two-three domain containing 1
Nup12	1.74	4 species	nucleoporin like 2
Ica1	1.73	4 species	islet cell autoantigen 1, 69kDa
Ttc19	1.73	4 species	tetratricopeptide repeat domain 19
Mvp	1.73	4 species	major vault protein
Ptpn2	1.73	5 species	protein tyrosine phosphatase, non-receptor type 2

S100a4	1.73	4 species	S100 calcium binding protein A4
Tuba1a	1.73	4 species	tubulin, alpha 1a
1110034A24Rik	1.73	≥ 6 species	chromosome 14 open reading frame 104
Tmed5	1.72	5 species	transmembrane emp24 protein transport domain containing 5
Serping1	1.71	5 species	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary)
Dusp14	1.71	4 species	dual specificity phosphatase 14
Gmppb	1.71	4 species	GDP-mannose pyrophosphorylase B
Impdh2	1.71	4 species	IMP (inosine monophosphate) dehydrogenase 2
Tagln2	1.71	4 species	transgelin 2
Krt8	1.70	5 species	---
Farsa	1.70	4 species	phenylalanyl-tRNA synthetase, alpha subunit
Il13ra1	1.70	4 species	interleukin 13 receptor, alpha 1
Col4a2	1.69	4 species	collagen, type IV, alpha 2
Runx1	1.69	4 species	runt-related transcription factor 1 (acute myeloid leukemia 1; aml1 oncogene)
Tmod3	1.68	4 species	tropomodulin 3 (ubiquitous)
Hsd17b7	1.67	5 species	hydroxysteroid (17-beta) dehydrogenase 7
Ncf1	1.67	4 species	neutrophil cytosolic factor 1C pseudogene
Spred1	1.67	4 species	sprouty-related, EVH1 domain containing 1
Sdc1	1.67	4 species	syndecan 1
Tubb2c	1.67	4 species	tubulin, beta 2C
Traf4	1.67	5 species	TNF receptor-associated factor 4
Apex1	1.67	4 species	APEX nuclease (multifunctional DNA repair enzyme) 1
Ccr2	1.66	4 species	chemokine (C-C motif) receptor 2
Ngrn	1.66	5 species	neugrin, neurite outgrowth associated
2200002D01Rik	1.66	4 species	RIKEN cDNA 2200002D01 gene
Timm9	1.66	≥ 6 species	translocase of inner mitochondrial membrane 9 homolog (yeast)
Nuak2	1.66	≥ 6 species	NUAK family, SNF1-like kinase, 2
Msn	1.65	4 species	moesin
Nubp2	1.65	≥ 6 species	nucleotide binding protein 2 (MinD homolog, E. coli)
Nfkbia	1.65	5 species	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
A030009H04Rik	1.64	4 species	hypothetical protein LOC284023
Rbm12	1.64	4 species	RNA binding motif protein 12
Sfpq	1.64	5 species	splicing factor proline/glutamine-rich (polypyrimidine tract binding protein associated)
Nid1	1.64	4 species	nidogen 1
Ugcg	1.64	4 species	UDP-glucose ceramide glucosyltransferase
Gpx7	1.63	4 species	glutathione peroxidase 7
Agt	1.63	5 species	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)
Tspan5	1.63	4 species	tetraspanin 5
Tspan4	1.63	4 species	tetraspanin 4
Tgfb1	1.62	4 species	transforming growth factor, beta-induced, 68kDa
Rock2	1.62	4 species	Rho-associated, coiled-coil containing protein kinase 2
Pcdh7	1.62	4 species	protocadherin 7
Ppp1r14b	1.62	4 species	protein phosphatase 1, regulatory (inhibitor) subunit 14B
Utp18	1.62	5 species	UTP18, small subunit (SSU) processome component, homolog (yeast)
1600012H06Rik	1.62	≥ 6 species	chromosome 6 open reading frame 120
Prpf31	1.62	4 species	PRP31 pre-mRNA processing factor 31 homolog (S. cerevisiae)
Osmr	1.62	4 species	oncostatin M receptor
Map4k4	1.62	4 species	mitogen-activated protein kinase kinase kinase kinase 4
Pgs1	1.61	4 species	phosphatidylglycerophosphate synthase 1
Acs15	1.61	4 species	acyl-CoA synthetase long-chain family member 5
Ttc14	1.61	≥ 6 species	tetratricopeptide repeat domain 14
Bzw2	1.61	5 species	basic leucine zipper and W2 domains 2
1600021P15Rik	1.60	4 species	chromosome 3 open reading frame 59
Rap2a	1.60	4 species	RAP2A, member of RAS oncogene family
Cpne8	1.60	4 species	copine VIII
1810029B16Rik	1.60	4 species	hypothetical protein FLJ11184
Elf3	1.60	4 species	E74-like factor 3 (ets domain transcription factor, epithelial-specific )
Psmg2	1.60	≥ 6 species	proteasome (prosome, macropain) assembly chaperone 2
Tmem41b	1.60	≥ 6 species	transmembrane protein 41B
Golt1b	1.59	5 species	golgi transport 1 homolog B (S. cerevisiae)
Mef2c	1.59	4 species	myocyte enhancer factor 2C
1810034K20Rik	1.59	4 species	magnesium-dependent phosphatase 1
Smarca1	1.59	4 species	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
Sla	1.59	4 species	Src-like-adaptor
Gna13	1.59	4 species	guanine nucleotide binding protein (G protein), alpha 13
Stat3	1.59	4 species	signal transducer and activator of transcription 3 (acute-phase response factor)
2610204M08Rik	1.59	≥ 6 species	inverted formin, FH2 and WH2 domain containing
Pi4kb	1.58	4 species	phosphatidylinositol 4-kinase, catalytic, beta
H2afb3	1.58	4 species	H2A histone family, member B3
Sox13	1.58	4 species	SRY (sex determining region Y)-box 13
Flot1	1.58	≥ 6 species	flotillin 1
Baz1a	1.58	4 species	bromodomain adjacent to zinc finger domain, 1A
Hs3st1	1.58	4 species	heparan sulfate (glucosamine) 3-O-sulfotransferase 1
Nek6	1.58	4 species	NIMA (never in mitosis gene a)-related kinase 6



Carhsp1	1.58	4 species	calcium regulated heat stable protein 1, 24kDa
Sh3pxd2b	1.58	4 species	SH3 and PX domains 2B
Syt12	1.58	4 species	synaptotagmin-like 2
Tubb5	1.58	≥ 6 species	tubulin, beta
Gpt2	1.57	4 species	glutamic pyruvate transaminase (alanine aminotransferase) 2
Nans	1.57	4 species	N-acetylneuraminic acid synthase (sialic acid synthase)
Rin1	1.57	4 species	Ras and Rab interactor 1
Adamts9	1.57	4 species	ADAM metallopeptidase with thrombospondin type 1 motif, 9
Fat1	1.57	4 species	FAT tumor suppressor homolog 1 (Drosophila)
Rap2b	1.57	5 species	RAP2B, member of RAS oncogene family
Dusp7	1.57	4 species	similar to dual specificity phosphatase 7
Nfkbid	1.57	4 species	T-cell activation NFkB-like protein
Zfp3611	1.57	4 species	zinc finger protein 36, C3H type-like 1
Ppfbp1	1.57	4 species	PTPRF interacting protein, binding protein 1 (liprin beta 1)
Pdcd6ip	1.56	4 species	programmed cell death 6 interacting protein
Xpo1	1.56	≥ 6 species	exportin 1 (CRM1 homolog, yeast)
Ciapin1	1.56	4 species	cytokine induced apoptosis inhibitor 1
Scamp2	1.56	4 species	secretory carrier membrane protein 2
Qpctl	1.56	4 species	glutaminyI-peptide cyclotransferase-like
Rbm14	1.56	4 species	RNA binding motif protein 14
St8sia6	1.56	4 species	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6
Paqr3	1.56	4 species	progesterone and adiponectin receptor family member III
Atf4	1.56	4 species	activating transcription factor 4 (tax-responsive enhancer element B67)
Slc44a2	1.56	4 species	solute carrier family 44, member 2
Usp1	1.56	4 species	ubiquitin specific peptidase 1
Klf2	1.55	4 species	Kruppel-like factor 2 (lung)
Tardbp	1.55	4 species	TAR DNA binding protein
Coro1a	1.55	5 species	coronin, actin binding protein, 1A
Hspa13	1.55	5 species	stress 70 protein chaperone, microsome-associated, 60kDa
Wfdc2	1.55	4 species	WAP four-disulfide core domain 2
Lars	1.55	4 species	leucyl-tRNA synthetase
Brca2	1.55	4 species	breast cancer 2, early onset
Ifi30	1.55	4 species	interferon, gamma-inducible protein 30
2500003M10Rik	1.55	4 species	chromosome 1 open reading frame 77
Pfn1	1.55	5 species	profilin 1
Slc7a1	1.54	4 species	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1
Lgals1	1.54	4 species	lectin, galactoside-binding, soluble, 1 (galectin 1)
Otub1	1.54	4 species	OTU domain, ubiquitin aldehyde binding 1
Mlx	1.54	≥ 6 species	MAX-like protein X
Tax1bp3	1.54	4 species	ribosomal protein L13
Dnajb1	1.54	4 species	DnaJ (Hsp40) homolog, subfamily B, member 1
Spns2	1.54	4 species	spinster homolog 2 (Drosophila)
Celsr1	1.54	4 species	cadherin, EGF LAG seven-pass G-type receptor 1 (flamingo homolog, Drosophila)
Tuba1b	1.54	4 species	tubulin, alpha 1b
Rab2b	1.54	4 species	RAB2B, member RAS oncogene family
Adfp	1.54	4 species	adipose differentiation-related protein
Serp1	1.54	4 species	stress-associated endoplasmic reticulum protein 1
Tmem168	1.54	4 species	transmembrane protein 168
Tnks2	1.54	4 species	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase 2
Jak2	1.54	4 species	Janus kinase 2 (a protein tyrosine kinase)
Pcdh1	1.54	5 species	protocadherin 1
Myh9	1.54	4 species	myosin, heavy chain 9, non-muscle
Col3a1	1.53	4 species	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
Pdgb	1.53	4 species	complement component 1. q subcomponent, C chain
C1qc	1.53	4 species	N-acetylglucosaminidase, alpha- (Sanfilippo disease IIIB)
Naglu	1.53	4 species	basal cell adhesion molecule (Lutheran blood group)
Bcam	1.53	4 species	transformer-2 alpha
Tra2a	1.53	≥ 6 species	protein disulfide isomerase family A, member 5
Pdia5	1.53	4 species	ATP-binding cassette, sub-family F (GCN20), member 1
Abcf1	1.53	5 species	EGF-containing fibulin-like extracellular matrix protein 2
Efemp2	1.53	4 species	chloride intracellular channel 1
Clic1	1.52	4 species	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39
Ddx39	1.52	4 species	basic leucine zipper and W2 domains 1
Bzw1	1.52	5 species	CDK2-associated protein 2
Cdk2ap2	1.52	4 species	prefoldin subunit 2
Pfdn2	1.52	5 species	myo-inositol 1-phosphate synthase A1
Isyna1	1.52	≥ 6 species	solute carrier family 6 (neurotransmitter transporter, creatine), member 8
Slc6a8	1.52	5 species	elastin microfibril interfacer 1
Emilin1	1.52	4 species	CD53 molecule
Cd53	1.52	4 species	TSC22 domain family, member 1
Tsc22d1	1.52	4 species	chromosome 1 open reading frame 75
Tmem206	1.52	4 species	CTTNBP2 N-terminal like
Cttb2n1	1.52	4 species	docking protein 3
Dok3	1.52	4 species	

Rfc4	1.52	4 species	replication factor C (activator 1) 4, 37kDa
Amd1	1.52	≥ 6 species	adenosylmethionine decarboxylase 1
Stip1	1.52	4 species	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)
Surf4	1.51	5 species	surfeit 4
EG545124	1.51	4 species	thymine-DNA glycosylase
Itga6	1.51	4 species	integrin, alpha 6
Usp6nl	1.51	4 species	---
Cebpγ	1.51	5 species	CCAAT/enhancer binding protein (C/EBP), gamma
Txn1l	1.50	5 species	thioredoxin-like 1
Rap1b	1.50	4 species	RAP1B, member of RAS oncogene family
Cbfb	1.50	4 species	core-binding factor, beta subunit
Pitpna	1.50	4 species	phosphatidylinositol transfer protein, alpha
Hoxb9	1.50	5 species	homeobox B9
Sdhc	1.50	4 species	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
Cgrrf1	0.67	4 species	cell growth regulator with ring finger domain 1
Ube4b	0.67	4 species	ubiquitination factor E4B (UFD2 homolog, yeast)
Tceb3	0.66	5 species	transcription elongation factor B (SIII), polypeptide 3 (110kDa, elongin A)
Mansc1	0.66	4 species	MANSC domain containing 1
1700025K23Rik	0.66	5 species	hypothetical protein LOC619208
Slc26a11	0.66	5 species	solute carrier family 26, member 11
Dock9	0.66	5 species	dedicator of cytokinesis 9
Tenc1	0.66	5 species	tensin like C1 domain containing phosphatase (tensin 2)
Ccnd2	0.66	5 species	cyclin D2
Sdf4	0.66	5 species	stromal cell derived factor 4
Vars	0.66	4 species	valyl-tRNA synthetase
Dtd1	0.65	4 species	D-tyrosyl-tRNA deacylase 1 homolog (S. cerevisiae)
Ggps1	0.65	4 species	geranylgeranyl diphosphate synthase 1
Tns1	0.65	4 species	tensin 1
Frag1	0.65	4 species	FGF receptor activating protein 1
Tmem205	0.65	4 species	MBC3205
Vamp3	0.65	5 species	vesicle-associated membrane protein 3 (cellubrevin)
1810009O10Rik	0.65	4 species	family with sequence similarity 58, member A
Esrra	0.65	4 species	estrogen-related receptor alpha
Vill	0.65	5 species	villin-like
Igsf9	0.65	4 species	immunoglobulin superfamily, member 9
Scamp5	0.65	4 species	secretory carrier membrane protein 5
Tfpt	0.64	4 species	TCF3 (E2A) fusion partner (in childhood Leukemia)
Angpt1	0.64	5 species	angiopoietin 1
Slc9a3r2	0.64	4 species	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 2
Ppcdc	0.64	4 species	phosphopantothenoylcysteine decarboxylase
Gpr19	0.64	4 species	G protein-coupled receptor 19
Ick	0.63	4 species	intestinal cell (MAK-like) kinase
Traf6	0.63	5 species	TNF receptor-associated factor 6
Kctd2	0.63	4 species	potassium channel tetramerisation domain containing 2
Rasl11b	0.63	4 species	RAS-like, family 11, member B
Aebp2	0.63	4 species	AE binding protein 2
Fkbp3	0.63	4 species	FK506 binding protein 3, 25kDa
Tiparp	0.63	5 species	TCDD-inducible poly(ADP-ribose) polymerase
Itpkb	0.63	4 species	inositol 1,4,5-trisphosphate 3-kinase B
Fam132a	0.63	4 species	family with sequence similarity 132, member A
Dnaja4	0.63	5 species	DnaJ (Hsp40) homolog, subfamily A, member 4
Nme7	0.63	4 species	non-metastatic cells 7, protein expressed in (nucleoside-diphosphate kinase)
Dhdh	0.63	4 species	dihydrodiol dehydrogenase (dimeric)
Pcbd1	0.63	4 species	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha
Fgfr1op2	0.63	4 species	FGFR1 oncogene partner 2
Gabbr1	0.63	4 species	gamma-aminobutyric acid (GABA) B receptor, 1
Stard8	0.63	4 species	STAR-related lipid transfer (START) domain containing 8
Ppargc1a	0.63	4 species	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
Scrn3	0.62	4 species	secernin 3
1110001A16Rik	0.62	5 species	RIKEN cDNA 1110001A16 gene
1810048J11Rik	0.62	5 species	chromosome 14 open reading frame 135
Dbp	0.62	5 species	D site of albumin promoter (albumin D-box) binding protein
Usp2	0.62	4 species	ubiquitin specific peptidase 2
Hmgn3	0.62	4 species	high mobility group nucleosomal binding domain 3
Ehd3	0.62	5 species	EH-domain containing 3
Atp11b	0.62	4 species	ATPase, class VI, type 11B
Abhd10	0.62	4 species	abhydrolase domain containing 10
Ypel3	0.62	4 species	yippee-like 3 (Drosophila)
Slc16a2	0.61	4 species	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)
Abcc5	0.61	4 species	ATP-binding cassette, sub-family C (CFTR/MRP), member 5
Esam	0.61	5 species	endothelial cell adhesion molecule
Slc7a8	0.61	4 species	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
Zfp579	0.61	5 species	zinc finger protein 579
Tmem180	0.61	≥ 6 species	transmembrane protein 180

Pctp	0.60	4 species	phosphatidylcholine transfer protein
Klf7	0.60	≥ 6 species	Kruppel-like factor 7 (ubiquitous)
Gm166	0.60	4 species	hypothetical protein LOC90835
Pgrmc2	0.60	4 species	progesterone receptor membrane component 2
Aff4	0.60	4 species	AF4/FMR2 family, member 4
Prelp	0.59	4 species	proline/arginine-rich end leucine-rich repeat protein
Hist1h2bc	0.59	5 species	histone cluster 1. H2bf
Vps37a	0.59	5 species	vacuolar protein sorting 37 homolog A ( <i>S. cerevisiae</i> )
Fgd5	0.59	4 species	FYVE, RhoGEF and PH domain containing 5
Notch4	0.59	4 species	Notch homolog 4 ( <i>Drosophila</i> )
Scly	0.59	4 species	selenocysteine lyase
Cct4	0.59	4 species	chaperonin containing TCP1. subunit 4 (delta)
OTTMUSG00000009332	0.59	4 species	zinc finger, MYM-type 6
Shank2	0.59	4 species	---
Usp36	0.58	4 species	ubiquitin specific peptidase 36
Cnot3	0.58	4 species	CCR4-NOT transcription complex, subunit 3
Cldn15	0.58	4 species	claudin 15
Irak4	0.58	4 species	interleukin-1 receptor-associated kinase 4
Fahd2a	0.58	4 species	fumarylacetoacetate hydrolase domain containing 2A
Ccdc91	0.58	4 species	coiled-coil domain containing 91
Dnajc28	0.58	4 species	chromosome 21 open reading frame 55
Vps37c	0.58	4 species	vacuolar protein sorting 37 homolog C ( <i>S. cerevisiae</i> )
Fbx116	0.57	≥ 6 species	F-box and leucine-rich repeat protein 16
Cpox	0.57	4 species	coproporphyrinogen oxidase
Hdgfrp3	0.57	4 species	hepatoma-derived growth factor, related protein 3
Wnk4	0.57	≥ 6 species	WNK lysine deficient protein kinase 4
Thra	0.57	4 species	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)
Prkar2b	0.57	4 species	protein kinase, cAMP-dependent, regulatory, type II, beta
Spint1	0.57	4 species	serine peptidase inhibitor, Kunitz type 1
4430402I18Rik	0.57	4 species	chromosome 9 open reading frame 68
Pcx	0.56	4 species	pyruvate carboxylase
Ckb	0.56	4 species	creatine kinase, brain
Slc5a2	0.55	4 species	solute carrier family 5 (sodium/glucose cotransporter), member 2
Ech1	0.55	4 species	enoyl Coenzyme A hydratase 1, peroxisomal
Apbb1	0.55	4 species	amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)
Srprb	0.55	5 species	signal recognition particle receptor, B subunit
Bcar3	0.55	5 species	breast cancer anti-estrogen resistance 3
Pts	0.55	4 species	6-pyruvoyltetrahydropterin synthase
Nox4	0.54	4 species	NADPH oxidase 4
1810019J16Rik	0.54	5 species	chromosome 1 open reading frame 172
Maf	0.54	5 species	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
Lsm4	0.54	4 species	LSM4 homolog, U6 small nuclear RNA associated ( <i>S. cerevisiae</i> )
Gcnt1	0.54	4 species	glucosaminyl (N-acetyl) transferase 1. core 2 (beta-1.6-N-acetylglucosaminyltransferase)
Slc27a1	0.54	4 species	solute carrier family 27 (fatty acid transporter), member 1
Khk	0.54	4 species	ketoheksokinase (fructokinase)
Ell3	0.54	5 species	elongation factor RNA polymerase II-like 3
Letm2	0.53	4 species	leucine zipper-EF-hand containing transmembrane protein 2
Fry	0.53	4 species	furry homolog ( <i>Drosophila</i> )
Tmc7	0.53	4 species	transmembrane channel-like 7
Car14	0.53	4 species	carbonic anhydrase XIV
Slc5a9	0.53	4 species	solute carrier family 5 (sodium/glucose cotransporter), member 9
Fabp3	0.53	4 species	fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)
Htatsf1	0.52	4 species	HIV-1 Tat specific factor 1
Epb4.111	0.52	4 species	erythrocyte membrane protein band 4.1-like 1
D630042F21Rik	0.52	4 species	chromosome 12 open reading frame 59
Lhx1	0.52	4 species	LIM homeobox 1
Cdk11	0.52	4 species	cyclin-dependent kinase-like 1 (CDC2-related kinase)
Pklr	0.51	5 species	pyruvate kinase, liver and RBC
Cobl1	0.51	4 species	COBL-like 1
Scn4b	0.51	4 species	sodium channel, voltage-gated, type IV, beta
BC020535	0.51	≥ 6 species	chromosome 20 open reading frame 160
1700022C21Rik	0.51	4 species	chromosome 6 open reading frame 12
Rbm47	0.51	4 species	RNA binding motif protein 47
Meis2	0.51	5 species	Meis homeobox 2
Nit1	0.51	5 species	nitrilase 1
Enpp2	0.51	4 species	ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin)
2010111I01Rik	0.51	4 species	chromosome 9 open reading frame 3
Tmem116	0.51	4 species	transmembrane protein 116
1110018J18Rik	0.51	4 species	chromosome 9 open reading frame 21
Cd200	0.51	4 species	CD200 molecule
Tmem88	0.50	5 species	transmembrane protein 88
Spnb3	0.50	4 species	spectrin, beta, non-erythrocytic 2
Sim1	0.50	4 species	single-minded homolog 1 ( <i>Drosophila</i> )
Dctn3	0.49	4 species	dynactin 3 (p22)

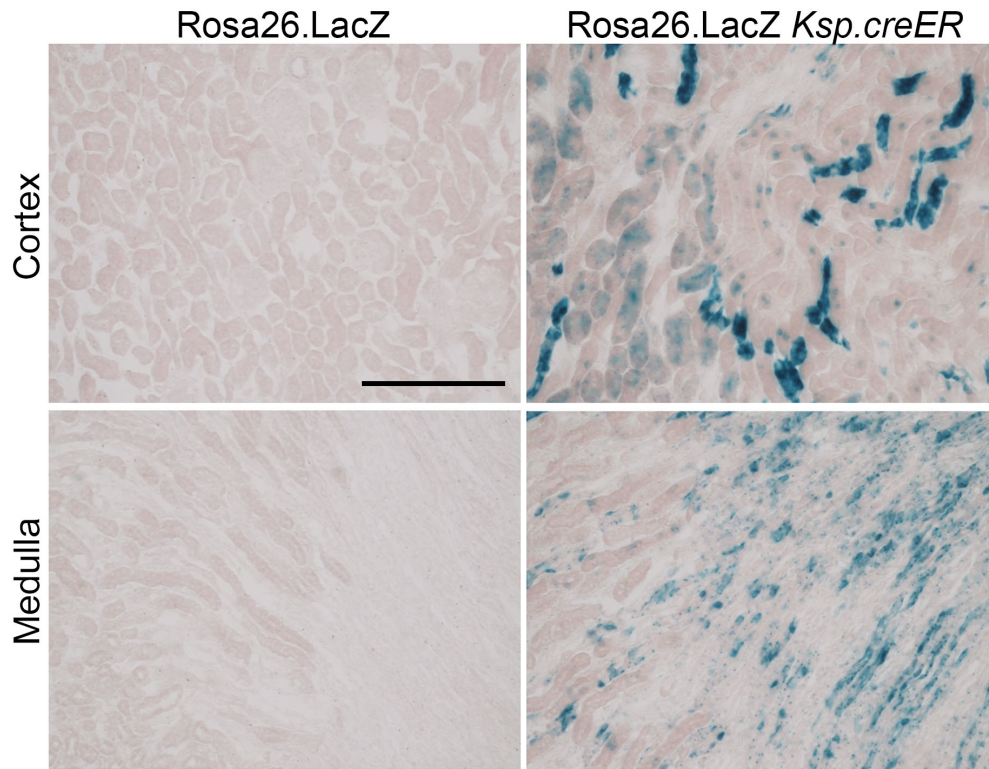
Sh3bgrl2	0.49	5 species	SH3 domain binding glutamic acid-rich protein like 2
Cetn4	0.49	5 species	centrin 4
A230067G21Rik	0.48	4 species	RIKEN cDNA A230067G21 gene
1110005A03Rik	0.48	5 species	hypothetical protein LOC124512
Ras112	0.48	4 species	RAS-like, family 12
Phf21a	0.48	4 species	PHD finger protein 21A
Gadd45gip1	0.48	5 species	growth arrest and DNA-damage-inducible, gamma interacting protein 1
Gpr116	0.47	4 species	G protein-coupled receptor 116
Slc46a1	0.47	4 species	solute carrier family 46 (folate transporter), member 1
			ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B1 (Renal tubular acidosis with deafness)
Atp6v1b1	0.47	4 species	with deafness)
Syt17	0.46	4 species	---
Aldoc	0.46	4 species	aldolase C, fructose-bisphosphate
Ndufaf1	0.46	4 species	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 1
Kcnj1	0.46	4 species	potassium inwardly-rectifying channel, subfamily J, member 1
Arsg	0.46	4 species	arylsulfatase G
Dixdc1	0.45	4 species	DIX domain containing 1
Egfl6	0.45	4 species	EGF-like-domain, multiple 6
Msi2	0.44	4 species	musashi homolog 2 (Drosophila)
C030014I23Rik	0.44	5 species	RIKEN cDNA C030014I23 gene
Actr1a	0.43	4 species	---
Ankrd29	0.42	4 species	ankyrin repeat domain 29
Srr	0.42	4 species	serine racemase
Thy1	0.42	4 species	Thy-1 cell surface antigen
Tm2d2	0.41	4 species	TM2 domain containing 2
Ncoa7	0.41	4 species	nuclear receptor coactivator 7
Slc14a1	0.41	4 species	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)
2700081O15Rik	0.40	4 species	hypothetical protein MGC3032
Fxyd2	0.40	4 species	FXD domain containing ion transport regulator 2
Per3	0.40	4 species	period homolog 3 (Drosophila)
Trove2	0.40	5 species	TROVE domain family, member 2
Pclo	0.40	4 species	piccolo (presynaptic cytomatrix protein)
Prox1	0.40	≥ 6 species	prospero homeobox 1
Mpped2	0.39	4 species	metallophosphoesterase domain containing 2
Esrb	0.39	4 species	estrogen-related receptor beta
2210021J22Rik	0.39	4 species	similar to RIKEN cDNA 2210021J22
Epdr1	0.39	4 species	ependymin related protein 1 (zebrafish)
Upp2	0.39	4 species	uridine phosphorylase 2
Trim63	0.39	4 species	tripartite motif-containing 63
Mapkapk3	0.38	≥ 6 species	mitogen-activated protein kinase-activated protein kinase 3
D3Bwg0562e	0.38	4 species	plasticity related gene 1
Gcom1	0.37	4 species	GRINL1A combined protein
Iptr2	0.37	4 species	inositol 1,4,5-triphosphate receptor, type 2
Ppox	0.36	5 species	protoporphyrinogen oxidase
Habp4	0.36	4 species	hyaluronan binding protein 4
Gtpbp2	0.35	5 species	GTP binding protein 2
Prdm5	0.35	4 species	PR domain containing 5
Pcnp	0.35	5 species	PEST proteolytic signal containing nuclear protein
Car9	0.34	4 species	carbonic anhydrase IX
Klhdc5	0.34	≥ 6 species	kelch domain containing 5
Glo1	0.34	4 species	glyoxalase I
Abhd14b	0.33	4 species	abhydrolase domain containing 14B
2210020M01Rik	0.32	4 species	RIKEN cDNA 2210020M01 gene
Sfrp1	0.30	4 species	secreted frizzled-related protein 1
			solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3. Diego blood group)
Slc4a1	0.28	4 species	Diego blood group)
Slc6a19	0.28	≥ 6 species	solute carrier family 6 (neutral amino acid transporter), member 19
Rpl17	0.26	5 species	ribosomal protein L17
Fgf1	0.25	4 species	fibroblast growth factor 1 (acidic)
Hfe	0.24	5 species	hemochromatosis
EG620009	0.23	4 species	pyruvate dehydrogenase (lipoamide) beta
Zyg11b	0.20	5 species	zyg-11 homolog B (C. elegans)
Slc35a5	0.19	5 species	solute carrier family 35, member A5
Pi4k2a	0.19	≥ 6 species	phosphatidylinositol 4-kinase type 2 alpha
Shisa3	0.18	4 species	hypothetical protein BC012029
Slc16a5	0.18	4 species	solute carrier family 16, member 5 (monocarboxylic acid transporter 6)
Pex19	0.12	4 species	peroxisomal biogenesis factor 19
Prdx2	0.06	≥ 6 species	peroxiredoxin 2

**Supplemental Table 2:** list of the primers used for quantitative RT-PCR experiments.

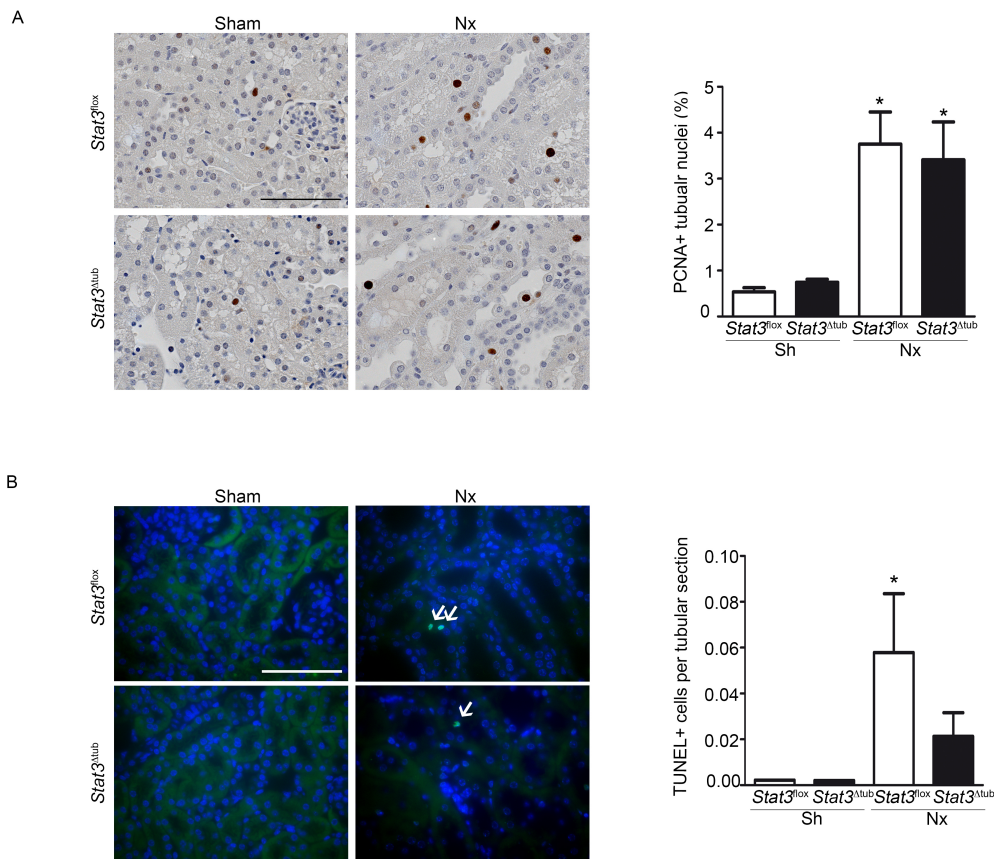
Genes name	Symbol	Forward primer	Reverse primer
Actin, alpha 2, smooth muscle, aorta	Acta2	CATGCGTCTGGACTTGGCTG	GACAATCTCACGCTCGGCAGTAG
Adrenomedullin	Adm	CGAAAGAAGTGAATAAGTGGG	GTTTCATGCTCTGGCGGTAGCG
Angiotensinogen	Agt	CGTGACGTGCGTGCCCCTAG	GCAGAGTCAGGCGGATGGCC
Angiopoietin 1	Agpt1	GGGGGAGGTTGGACAGTAA	CATCAGCTCAATCCTCAGC
Aquaporin 2	Aqp2	TAGCCCTGCTCTCTCCATTGGTTT	AAACTTGCCAGTGACAACCTGCTGG
Autotaxin	Enpp2	GTCGGTGTGACAACCTATGTAA	ATCTGTCTTTGGTGCCTCC
Calbindin 1, 28kDa	Calb1	TTGGCTCAGTCTTACCCACAGAA	ATGAAGCCGCTGTGGTCAGTATCA
Collagen, Typ I, alpha 1	Col1a1	GCCGCAAAGAGTCTACATGTCTAG	TGGCAGATACAGATCAAGCATACC
Collagen, Typ III, alpha 1	Col3a1	GGACCAGCAGGAACTAATGGTAT	GTTCTCCAGGTGATCCATCTTT
Collagen, Typ IV, alpha 1	Col4a1	GTCTGGCTTCTGCTGCTCTTC	CCTTCACGCCATGACAGTCA
Collagen, Typ XII, alpha 1	Col12a1	AGGAGAGCCAGGCCTTCCGG	GAGAGCCTGGGCTTCCCGGT
Connective tissue growth factor	Ctgf	GCTGACCTGGAGGAAAACATTAA	TGACAGGCTTGGCGATTTTAG
Cysteine rich protein 61	Cyr61	GGA TGA ATG GTG CCT TGC	GTC CAC ATC AGC CCC TTG
Endothelin 1	Edn1	CTGGAGACCCCGCAGGTCCAA	AGTCCATACGGTACGACGCGC
Follistatin	Fst	GGATTAGCCTATGAGGGAAAGTG	CCTCTGCCAACCTTGAATC
Plasminogen activator, urokinase	Plau	GTGCCGCACACTGCTTCATT	CGTGCTGGTACGTATCTTCA
Platelet derived growth factor receptor, beta polypeptide	Pdgfb	GCGCCTGCTGCACAGAGACT	GCTCTGCTGCTGCCAGGGAC
Ribosomal protein L13	Rpl13	CTCATCCCTGTTCCCCAGGAA	GGGTGGCCAGCTTAAGTTCTT
S100 calcium binding protein A4	S100a4	CTTGGTCTGGTCTCAACGGTTA	TTGCCTGAGTATTTGTGGAAGGT
Secreted frizzled-related protein 1	Sfrp1	CAATACCACGGAAGCCTCTAAG	CTCGCTTGACAGAGATGTT
Solute Carrier Family 12 Member 1	Slc12a1	CGCCTTTGACTTTGAGATTGGCGT	ACACTCGTTGTCTTTGATTGCGGC
Solute Carrier Family 12 Member 3	Slc12a3	GGGCAAATGCAAGATCCGAGTGTT	TTGATGTCGGAAGGACGTGAACT
Solute Carrier Family 4 Member 1	Slc4a1	AAGAGGTCAAGGAACAGCGGATCA	TACAGGAAGATGCCGAAGAGCACA
Solute Carrier Family 34 Member 1	Slc34a1	GGCTTGTGGTTGCTTCCTTCAACA	GGCTTGTGGTTGCTTCCTTCAACA
Solute Carrier Family 34 Member 3	Slc34a3	ATGGTGGCCTCTAAGTTGCTGACT	TGCTGGTGTGATCGAAGTACCCACAT
Suppressor of cytokine signaling 3	Socs3	CCACCCTCCAGCATCTTTGT	CAGGCAGCTGGGTCACCTTTC
Tissue inhibitor of metalloproteinase 1	Timp1	AGTCCCAGAACCGCAGTGAA	AAGAAGCTGCAGGCACTGATG

Transforming growth factor, beta 2	Tgfb2	CACCCAGCGCTACATCGATA	CACGTCGAAGGAGAGCCATT
Transgelin 2	Tgln	AAGGACGGCACGGTTCTGT	TGTTAATGCCATAGCGCTCG
Transglutaminase 1	Tgm1	GGGTGCTGGATGCCTGCCTG	CACTGCCACCCACGCTGAG
Uromodullin	Umod	TCAACAGAAGCGAGACGGTGTCT	AGCACACTCATCCATGTCCTCACA

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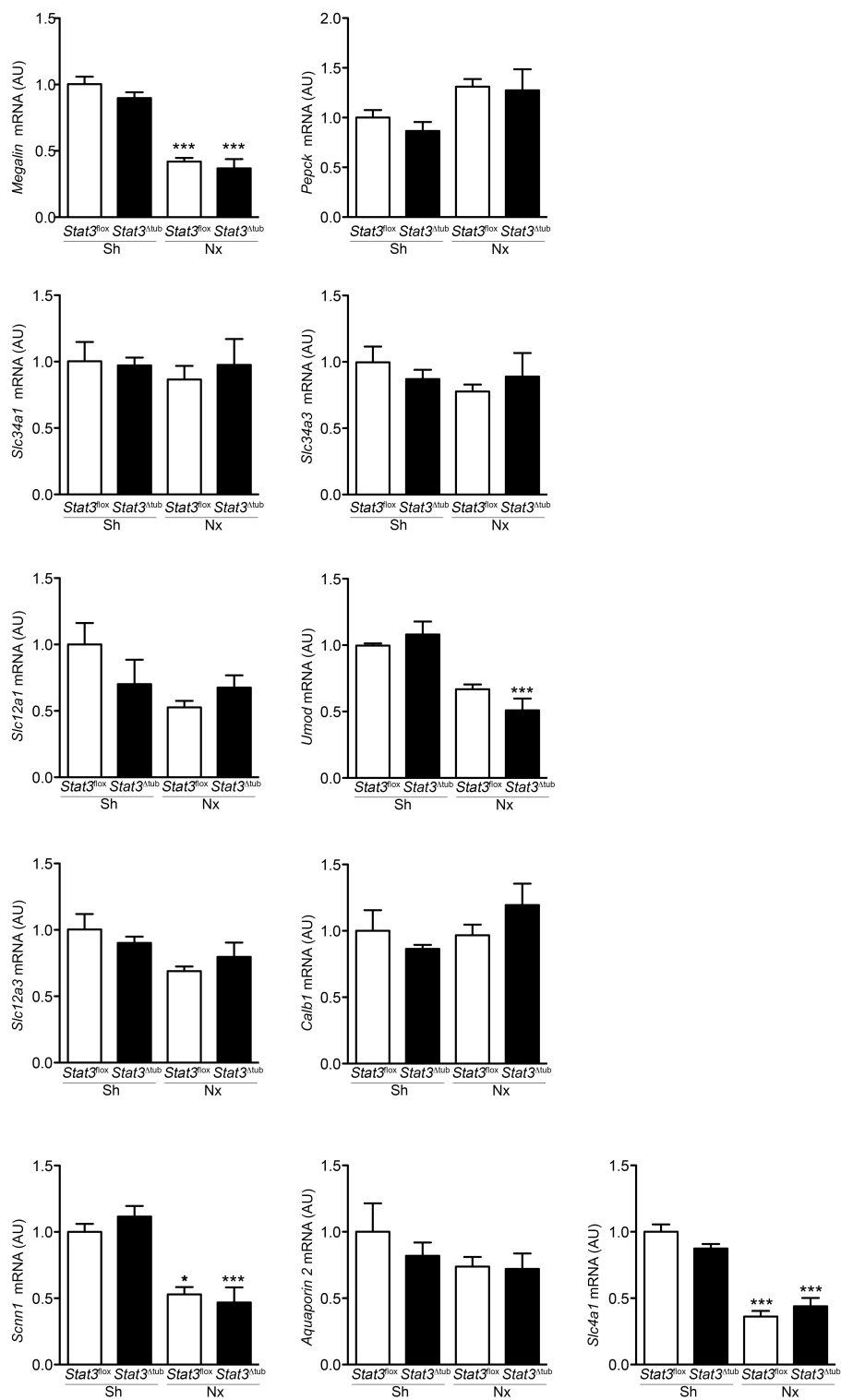


**Supplemental Figure S1: *Ksp.creER<sup>T2</sup>* mice drive inducible cre expression in both proximal and distal tubules.**  $\beta$ -galactosidase staining of kidneys from *Rosa26.LacZ* (n=2) or *Rosa26.LacZ Ksp.creER<sup>T2</sup>* (n=4) mice, 2 weeks after tamoxifen treatment. Scale Bar: 100  $\mu$ m.

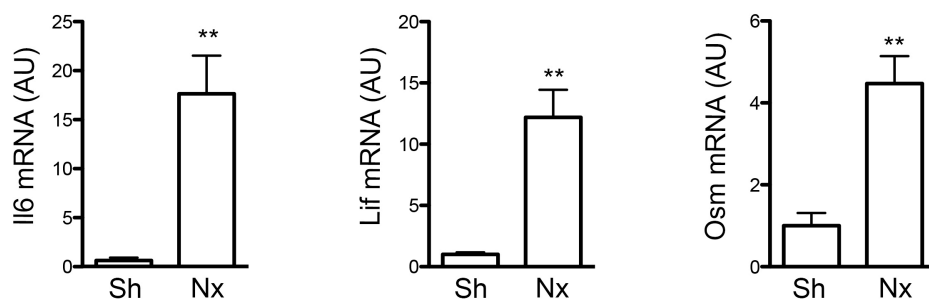


**Supplemental Figure S2: Stat3 deletion does not impact on tubular cell proliferation and apoptosis.** (A) PCNA immunostaining (left panels) and quantification (right panel) of PCNA-positive tubular cells in kidney from sham-operated (Sh) *Stat3<sup>fllox</sup>* (n=3) and *Stat3<sup>tub</sup>* (n=4) mice and 75% nephrectomized (Nx) *Stat3<sup>fllox</sup>* (n=9) and *Stat3<sup>tub</sup>* (n=13) mice 90 days after surgery. (B) TUNEL assay and quantification of TUNEL-positive tubular cells in the same animals. Scale Bar: 50  $\mu$ m. Data are means  $\pm$  SEM. ANOVA followed by Tukey-Kramer test. Sh versus Nx mice: \* P < 0.05.





**Supplemental Figure S3: Tubular *Stat3* invalidation does not affect the expression of critical tubular genes.** Quantitative RT-PCR of the indicated genes in sham-operated (Sh) *Stat3*<sup>fllox</sup> (n=3) and *Stat3*<sup>tub</sup> (n=4) mice and 75% nephrectomized (Nx) *Stat3*<sup>fllox</sup> (n=9) and *Stat3*<sup>tub</sup> (n=13) mice 90 days after surgery. All relative expression are normalized to *Rpl13*. Data are means ± SEM. ANOVA followed by Tukey-Kramer test. Sh versus Nx mice: \* P < 0.05, \*\*\* P < 0.001.



**Supplemental Figure S4: Interleukin 6 (Il6), Leukemia inhibiting factor (Lif) and Oncostatin M (Osm) expression increases after nephron reduction in lesion-prone mice.**

Quantitative RT-PCR of IL-6, Lif, and Osm mRNA content in FVB/N sham operated (Sh; n=4) and 75% nephrectomized (Nx; n=8) mice, 60 days after surgery. All relative expression are normalized to *Rpl13*. Mann Whitney test: Sh *versus* Nx mice: \*\* P < 0.01.