

Supplemental Table S27

Kidney Disease Module Associated Gene

Blue Module DMR

CAV1	caveolin 1
RICTOR	RPTOR independent companion of MTOR complex 2
MCTP2	multiple C2 and transmembrane domain containing 2
CR1L	complement C3b/C4b receptor 1 like
APP	amyloid beta precursor protein
CR2	complement C3d receptor 2
ADCYAP1	adenylate cyclase activating polypeptide 1
EGFR	epidermal growth factor receptor
NCK1	NCK adaptor protein 1
PAH	phenylalanine hydroxylase
BBS9	Bardet-Biedl syndrome 9
HIPK2	homeodomain interacting protein kinase 2
CHIT1	chitinase 1
CDKAL1	CDK5 regulatory subunit associated protein 1 like 1
MMAB	metabolism of cobalamin associated B
CXCL10	C-X-C motif chemokine ligand 10
LIN7C	lin-7 homolog C, crumbs cell polarity complex component
REG3A	regenerating family member 3 alpha
RNLS	renalase, FAD dependent amine oxidase
GPC5	glypican 5
CCDC171	coiled-coil domain containing 171
MIF	macrophage migration inhibitory factor
HSD11B1	hydroxysteroid 11-beta dehydrogenase 1
ABCG2	ATP binding cassette subfamily G member 2 (Junior blood group)
ABCC6	ATP binding cassette subfamily C member 6
CALCRL	calcitonin receptor like receptor
FHIT	fragile histidine triad diadenosine triphosphatase
TINAG	tubulointerstitial nephritis antigen
ADRA1B	adrenoceptor alpha 1B
TRPC1	transient receptor potential cation channel subfamily C member 1
TRPC3	transient receptor potential cation channel subfamily C member 3
ADAM17	ADAM metallopeptidase domain 17
RHOA	ras homolog family member A
TRPC5	transient receptor potential cation channel subfamily C member 5
NR3C2	nuclear receptor subfamily 3 group C member 2
MMP1	matrix metallopeptidase 1
PTPRN2	protein tyrosine phosphatase receptor type N2
PON2	paraoxonase 2
ELMO1	engulfment and cell motility 1
ITGA2	integrin subunit alpha 2

SORCS1	sortilin related VPS10 domain containing receptor 1
HMCN1	hemicentin 1
MMP10	matrix metalloproteinase 10
TSG101	tumor susceptibility 101
MMP13	matrix metalloproteinase 13
PVT1	Pvt1 oncogene
PDE5A	phosphodiesterase 5A
SCLT1	sodium channel and clathrin linker 1
PCSK2	proprotein convertase subtilisin/kexin type 2
CASP12	caspase 12 (gene/pseudogene)
MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2
GZMB	granzyme B
SLC4A4	solute carrier family 4 member 4
SLCO1B3	solute carrier organic anion transporter family member 1B3
PDE1A	phosphodiesterase 1A
NFKB1	nuclear factor kappa B subunit 1
ABCC4	ATP binding cassette subfamily C member 4
ARL13A	ADP ribosylation factor like GTPase 13A
SLC34A1	solute carrier family 34 member 1
EFEMP1	EGF containing fibulin extracellular matrix protein 1
TBXAS1	thromboxane A synthase 1
LOX	lysyl oxidase
CD226	CD226 molecule
m_Slco1a1	solute carrier organic anion transporter family, member 1a1
PPIA	peptidylprolyl isomerase A
m_Slco1a4	solute carrier organic anion transporter family, member 1a4
HLA-B	major histocompatibility complex, class I, B
ITGB3	integrin subunit beta 3
GHR	growth hormone receptor
NARS2	asparaginyl-tRNA synthetase 2, mitochondrial
BRAF	B-Raf proto-oncogene, serine/threonine kinase
AGTR1	angiotensin II receptor type 1
ABCB1	ATP binding cassette subfamily B member 1
SLCO1A2	solute carrier organic anion transporter family member 1A2
SV2B	synaptic vesicle glycoprotein 2B
MUC16	mucin 16, cell surface associated
CORIN	corin, serine peptidase
AHRR	aryl-hydrocarbon receptor repressor
ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1
SERPINB7	serpin family B member 7
SLC39A8	solute carrier family 39 member 8
DMD	dystrophin
LTBP2	latent transforming growth factor beta binding protein 2
NLRP3	NLR family pyrin domain containing 3
PEPD	peptidase D

FRMD3	FERM domain containing 3
CMA1	chymase 1
m_Abcb1b	ATP-binding cassette, subfamily B (MDR/TAP), member 1B
NOS2	nitric oxide synthase 2
ERBB4	erb-b2 receptor tyrosine kinase 4
CLOCK	clock circadian regulator
IDE	insulin degrading enzyme
CTSL	cathepsin L
CFH	complement factor H
THSD7A	thrombospondin type 1 domain containing 7A
MSR1	macrophage scavenger receptor 1
CD72	CD72 molecule
C5	complement C5
CFI	complement factor I
UGT2B17	UDP glucuronosyltransferase family 2 member B17
GSTK1	glutathione S-transferase kappa 1
ALMS1	ALMS1 centrosome and basal body associated protein
ESR1	estrogen receptor 1
NPR3	natriuretic peptide receptor 3
ALOX5	arachidonate 5-lipoxygenase
SLC17A3	solute carrier family 17 member 3
NLRP1	NLR family pyrin domain containing 1
SERPINA3	serpin family A member 3
IFNA1	interferon alpha 1
PIP5K1A	phosphatidylinositol-4-phosphate 5-kinase type 1 alpha
ABCC2	ATP binding cassette subfamily C member 2
NUP160	nucleoporin 160
CYP1A1	cytochrome P450 family 1 subfamily A member 1
IFNAR1	interferon alpha and beta receptor subunit 1
IFNG	interferon gamma
CYP2C19	cytochrome P450 family 2 subfamily C member 19
PRKD1	protein kinase D1
CYP2C8	cytochrome P450 family 2 subfamily C member 8
CYP2C9	cytochrome P450 family 2 subfamily C member 9
PRKDC	protein kinase, DNA-activated, catalytic subunit
PRKG1	protein kinase cGMP-dependent 1
RCAN1	regulator of calcineurin 1
CYP2E1	cytochrome P450 family 2 subfamily E member 1
CNR1	cannabinoid receptor 1
IGF2	insulin like growth factor 2
TFF3	trefoil factor 3
CYP4A11	cytochrome P450 family 4 subfamily A member 11
KIR3DL1	killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1
IQCB1	IQ motif containing B1
CYP7A1	cytochrome P450 family 7 subfamily A member 1

TG	thyroglobulin
IGH	immunoglobulin heavy locus
ATP6V0A4	ATPase H ⁺ transporting V0 subunit a4
CACNA1C	calcium voltage-gated channel subunit alpha1 C
F2RL1	F2R like trypsin receptor 1
TGFB2	transforming growth factor beta 2
PLA2R1	phospholipase A2 receptor 1
COL4A6	collagen type IV alpha 6 chain
KLRB1	killer cell lectin like receptor B1
CC2D2A	coiled-coil and C2 domain containing 2A
FAM20A	FAM20A golgi associated secretory pathway pseudokinase
PROS1	protein S
DKK1	dickkopf WNT signaling pathway inhibitor 1
THPO	thrombopoietin
PDGFC	platelet derived growth factor C
AVP	arginine vasopressin
ANGPT1	angiopoietin 1
PRSS1	serine protease 1
TJP1	tight junction protein 1
UFL1	UFM1 specific ligase 1
TMPRSS15	transmembrane serine protease 15
GHRL	ghrelin and obestatin prepropeptide
G6PD	glucose-6-phosphate dehydrogenase
MYC	MYC proto-oncogene, bHLH transcription factor
NOX4	NADPH oxidase 4
PKHD1	PKHD1 ciliary IPT domain containing fibrocystin/polyductin
GRK4	G protein-coupled receptor kinase 4
OPRM1	opioid receptor mu 1
CEP290	centrosomal protein 290
INVS	inversin
TLR2	toll like receptor 2
PLA2G4A	phospholipase A2 group IVA
TRPM7	transient receptor potential cation channel subfamily M member 7
SGCD	sarcoglycan delta
CES1	carboxylesterase 1
CAMK2A	calcium/calmodulin dependent protein kinase II alpha
UNC13B	unc-13 homolog B
IL23R	interleukin 23 receptor
TMOD1	tropomodulin 1
SYTL2	synaptotagmin like 2
FCAR	Fc fragment of IgA receptor
MYO9A	myosin IXA
SEMA3C	semaphorin 3C
CFTR	CF transmembrane conductance regulator
HDAC9	histone deacetylase 9

CCL4	C-C motif chemokine ligand 4
CP	ceruloplasmin
SLIT2	slit guidance ligand 2
GRIN2A	glutamate ionotropic receptor NMDA type subunit 2A
STK3	serine/threonine kinase 3
ROBO2	roundabout guidance receptor 2
KCNQ5	potassium voltage-gated channel subfamily Q member 5
NR3C1	nuclear receptor subfamily 3 group C member 1
ROCK1	Rho associated coiled-coil containing protein kinase 1
HPGD	15-hydroxyprostaglandin dehydrogenase
CDKL5	cyclin dependent kinase like 5
CLDN7	claudin 7
IL16	interleukin 16