

Supplementary table S1. Renal superpanel – broadPanelApp genes (293). Variants of genes with a high level of evidence labelled “green” in Panel App were selected. Seventy genes with well-defined AD and XLD inheritance patterns were filtered for downstream analyses.

CASR	CFHR1	COL4A3	COL4A4	COL4A5	EYA1	FAM58A	FGA	FLCN	GATA3
GLA	GLI3	GNA11	HNF1B	HNF4A	JAG1	KMT2D	LMX1B	MYH9	MYOCD
NR3C1	PAX2	PBX1	PHEX	PKD1	PKD2	PRKCSH	REN	RET	ROBO2
SLC4A1	TBC1D8B	TRPC6	TSC1	TSC2	TTR	UMOD	WNK4	WT1	ZMYM2
ACTG2	ACTN4	ALG5	AP2S1	ATP1A1	BNC2	CFHR5	CHD7	CNNM2	COL4A1
CUL3	GANAB	GREB1L	GSN	HOXA13	KCNJ5	KDM6A	MUC1	NIPBL	NOTCH2
NR3C2	RRAGD	SALL1	SEC61A1	SEC63	SIX5	TBX18	TFAP2A	TRIM8	WBP11
ACE	AGT	AGTR1	AGXT	AHI1	ALG9	ALMS1	AMN	ANKS6	ANOS1
APOC2	APOE	APRT	ARHGDI1	ARL13B	ARL6	ATP6V0A4	ATP6V1B1	AVPR2	B9D2
BBS1	BBS10	BBS12	BBS2	BBS4	BBS5	BBS7	BBS9	BSND	C5orf42
CA2	CC2D2A	CD151	CENPF	CEP104	CEP164	CEP290	CEP41	CEP55	CEP83
CHRM3	CHRNA3	CLCN5	CLCNKB	CLDN10	CLDN16	CLDN19	COQ2	COQ6	COQ8B
CRB2	CSPP1	CTNS	CTU2	CUBN	CYP11B2	CYP17A1	CYP24A1	DAAM2	DDX59
DGKE	DHCR7	DLG5	DYNC2H1	DZIP1L	FAH	FAM20A	FAN1	FAT1	FRAS1
FREM2	GLIS2	GON7	GPC3	GRHPR	GRIP1	HAAO	HOGA1	HPRT1	HPSE2
HSD11B2	HYLS1	IFT122	IFT172	IFT27	IFT43	INPP5E	INVS	IQCB1	ITGA3
ITGA8	KCNJ1	KCNJ10	KCNJ16	KIAA0586	KIAA0753	KIF7	KYNU	LAGE3	LAMB2
LCAT	LIFR	LRIG2	LZTFL1	MAGED2	MAGI2	MAPKBP1	MKKS	MKS1	MMACHC
MOCOS	MTX2	MYO1E	NADSYN1	NOS1AP	NPHP1	NPHP3	NPHP4	NPHS1	NPHS2
NUP107	NUP133	NUP85	NUP93	OCRL	OSGEP	PDSS2	PKHD1	PLCE1	PLVAP
PMM2	PRDM15	PSKH1	RMND1	ROBO1	RPGRIP1L	RRM2B	SARS2	SCARB2	SDCCAG8

SGPL1	SLC12A1	SLC12A3	SLC22A12	SLC34A3	SLC4A4	SMARCAL1	STRA6	STRADA	TCTN1
TCTN2	TCTN3	TMEM107	TMEM138	TMEM216	TMEM231	TMEM237	TMEM260	TMEM67	TNS2
TP53RK	TPRKB	TRAF3IP1	TRAP1	TRPM6	TTC8	TULP3	TXNDC15	VIPAS39	VPS33B
WDPCP	WDR19	WDR35	WDR60	WDR72	WDR73	XDH	XPNPEP3	YRDC	ZIC3
ALG8	APOA1	APOA2	AQP2	C3	CD46	CFB	CFH	CFHR2	CFHR3
CFI	CYP11B1	DLC1	DNAJB11	DSTYK	FN1	FREM1	GATM	ICK	IFT140
INF2	ITSN1	KLHL3	LRP4	LYZ	MT-TF	NEK8	OFD1	PODXL	ROR2
SCNN1A	SCNN1B	SCNN1G	SLC2A2	SLC2A9	SLC34A1	SLC3A1	SLC5A2	SLC7A9	TBC1D1
TTC21B	VHL	WNK1							