

Table S1 – List of genes

List of 228 genes from our panel of known genes involved in kidney diseases. Genes involved in FSGS are underlined in bold.

ACE (NM_000789) - ACTA2 (NM_001613) – ACTG2 (NM_001615) - **ACTN4 (NM_004924)** - AGT (NM_000029) - AGTR1 (NM_031850) - AHI1 (NM_017651) - **ALG1 (NM_019109.4)** – ALG9 (NM_024740) - ALMS1 (NM_015120) – **ANKFY1 (NM_01257999)** - ANKS3 (NM_133450) - ANKS6 (NM_173551) - **ANLN (NM_018685)** - ANOS1 (KAL1) (NM_000216) - **APOL1 (Allèles G1-G2 - Genovese et al., Science 2010)** - **ARHGDI1 (NM_004309)** - ARL13B (NM_182896) - ARL6 (NM_177976) - **AVIL (NM_006576)** – B9D1 (NM_015681) - B9D2 (NM_030578) - BBIP1 (NM_001195306) - BBS1 (NM_024649) - BBS10 (NM_024685) - BBS12 (NM_152618) - BBS2 (NM_031885) - BBS4 (NM_033028) - BBS5 (NM_152384) - BBS7 (NM_176824) – BBS9 (NM_198428) - BICC1 (NM_001080512) - BMP4 (NM_001202) – BNC2 (NM_017637) - C2CD3 (NM_015531) - CC2D2A (NM_001080522) - **CD2AP (NM_012120)** - CDC5L (NM_001253) - CEP164 (NM_014956) - CEP19 (NM_032898) – CEP290 (NM_025114) - CEP41 (NM_018718) - CEP83 (CCDC41) (NM_016122) - CHD1L (NM_004284) - CHD7 (NM_017780) - CHRM3 (NM_000740) - **CLCN5 (NM_001127898; canonique NM_000084)** - **COL4A3 (NM_000091)** - **COL4A4 (NM_000092)** - **COL4A5 (NM_000495)** - COL4A6 (NM_001847) - **COQ2 (NM_015697)** - **COQ6 (NM_182476)** - **COQ8B (ADCK4) (NM_024876.3)** - CLPANE1 (C5orf42) (NM_023073) - **CRB2 (NM_173689)** - CSPP1 (NM_024790) - CTNS (NM_004937) - **CUBN (NM_001081)** - DCDC2 (NM_016356) – DDX59 (NM_001031725) - **DGKE (NM_003647)** - DHCR7 (NM_001360) - DIS3L2 (NM_152383) - DNAJB11 (NM_016306) - DSTYK (NM_015375) - DYNC2H1 (NM_001080463) – DYRK1A (NM_001396) - DZIP1L (NM_173543) - **EMP2 (NM_001424)** – ESRRG (NM_001243518) - EVC (NM_153717) - EVC2 (NM_147127) - EXOC4 (NM_021807) - EYA1 (NM_172060) - FAM58A (NM_152274) - FAN1 (NM_014967) - **FAT1 (NM_005245)** - FAT4 (NM_024582) - FGF20 (NM_019851) – FOXF1 (NM_001451) - FOXP1 (NM_032682) - FRAS1 (NM_025074) - FREM1 (NM_144966) - FREM2 (NM_207361) - GANAB (NM_198335) - **GAPVD1 (NM_1282679)** - GATA3 (NM_001002295) - GDF6 (NM_001001557) - GDNF (NM_000514) – GLA (NM_000169) - GLI3 (NM_000168) - GLIS2 (NM_032575) - GON7 (C14orf142) (NM_032490) - GPC3 (NM_004484) - GREB1L (NM_001142966) - GREM1 (NM_013372) - GRHL2 (NM_024915) - GRIP1 (NM_021150) - HNF1B (NM_000458) - HPSE2 (NM_021828) - HYLS1 (NM_145014) - IFT122 (NM_052985) - IFT140 (NM_014714) - IFT172 (NM_015662) - IFT27 (NM_006860) - IFT43 (NM_052873) - IFT80 (NM_020800) - IFT81 (NM_014055) - **INF2 (NM_022489)** - INPP5E (NM_019862) – INVS (NPHP2) (NM_014425) - IQCB1 (NM_001023570) - **ITGA3 (NM_002204)** - ITGA8 (NM_003638) - JAG1 (NM_000214) - **KANK2 (NM_001136191.2)** - **KANK4 (NM_181712.4)** - KIAA0586 (NM_001244189) – KIF7 (NM_198525) - KIF14 (NM_014875) – **LAGE3 (NM_006014)** - **LAMA5 (NM_005560)** - **LAMB2 (NM_002292)** - LHX1 (NM_005568) - LIFR (NM_002310) - **LMX1B (NM_002316.3)** - LRIG2 (NM_014813) - LRP4 (NM_002334) - LZTFL1 (NM_020347) - **MAGI2 (NM_012301.3)** – MAPKBP1 (NM_001128608) - MKKS (NM_018848) - MKS1 (NM_017777) - **MTTL1 (NC_012920.1)** - **MYH9 (NM_002473)** - MYH11 (NM_001040114) - **MYO1E (NM_004998.3)** – MYOCD (NM_001146312) - NEK1 (NM_012224) - NEK8 (NM_178170) – NOTCH2 (XM_005270902) - NPHP1 (NM_000272) - NPHP3 (NM_153240) - NPHP4 (NM_015102) - **NPHS1 (NM_004646)** - **NPHS2 (NM_014625)** - NRIP1 (NM_003489) - **NUP85 (NM_024844)** - **NUP93 (NM_014669)** - **NUP107 (NM_020401)** – **NUP133 (NM_018230)** - **NUP160 (NM_015231)** - **NUP205 (NM_015135)** - **NXF5 (NM_003901)** – **OCRL (NM_000276.3)** - OFD1 (NM_003611) - OSGEP (NM_017807) - OSR1 (NM_145260) - **PAX2 (NM_003987)** - PBX1 (NM_002585) – PCARE (C2orf71) (NM_001029883) - PDE6D (NM_002601) - **PDSS2 (NM_020381)** - PKD2 (NM_000297) - PKHD1 (NM_138694) - **PLCE1/NPHS3 (NM_016341)** ;

NM_001165979) - PMM2 (NM_000303) - POC1B (NM_172240) - PODXL (NM_005397) - PTPRO (NM_030667) – REN (NM_000537) - RET (NM_020975) - ROBO2 (NM_002942) - RPGRIP1L (NM_015272) - SALL1 (NM_002968) - SALL4 (NM_020436) - SCLT1 (NM_144643) - SDCCAG8 (NM_006642) - SEC61A1 (NM_013336) - **SGPL1 (NM_003901) – SIX1 (NM_005982) -SIX2 (NM_016932) - SIX5 (NM_175875) - SLC41A1 (NM_173854) - SLIT2 (NM_004787) – SLIT3 (NM_003062) - **SMARCAL1 (NM_014140)** - SOX17 (NM_022454) - SRGAP1 (NM_020762) - SRPK1 (NM_003137) – TBC1D1 (NM_015173) - **TBC1D8B (NM_017752)** - TBC1D32 (NM_152730) - TBX3 (NM_005596) - TBX18 (NM_001080508) - TCTN1 (NM_001082538) - TCTN2 (NM_024809) - TCTN3 (NM_015631) - TMEM107 (NM_032354) - TMEM138 (NM_016464) - TMEM216 (NM_001173990) - TMEM231 (NM_001077416) - TMEM237 (NM_001044385) - TMEM260 (NM_017799) - TMEM67 (NM_153704) - **TPR3RK (NM_033550)** - **TPRKB (NM_016058)** - TRAF3IP1 (NM_015650) - TRAP1 (NM_016292) - TRIM32 (NM_012210) - **TRPC6 (NM_004621)** - **TTC21B (NM_024753)** - TTC8 (NM_198309) - UMOD (NM_003361) - UPK3A (NM_006953) - WDPCP (NM_015910) - **WDR4 (NM_033661)** - WDR19 (NM_025132) - WDR34 (NM_052844) - WDR35 (NM_001006657) – WDR60 (NM_018051) - **WDR73 (NM_032856)** - WNT4 (NM_030761) - **WT1 (NM_024426.4)** - XPNPEP3 (NM_022098) - **YRDC (NM_024640)** - ZNF423 (NM_015069)**