**پانل بیماری های کلیوی**

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| **ردیف** | **نام بیماری** | **تعداد ژن** | **ژن های مورد بررسی** |
| 1 | Nephronophthisis | 19 | ANKS6, CEP164, CEP290, CEP83, DCDC2, FAN1, GLIS2, INVS, IQCB1, NEK8, NPHP1, NPHP3, NPHP4, SLC41A1, TMEM67, TTC21B, WDR19, XPNPEP3, ZNF423 |
| 2 | Cystic Kidney Disease | 9 | BICC1, EYA1, HNF1B, MUC1, PAX2, PKD2, PKHD1, SIX5, UMOD |
| 3 | Renal Tubular Dusgenesis | 4 | ACE, AGT, AGTR1, REN |
| 4 | Renal Dysplasia, Renal Agenesia, CAKUT | 32 | ALDH1A2, BICC1, BMP4, CHD1L, DSTYK, EYA1, FGF20, FOXC1, FRAS1, FREM1, FREM2, GATA2, GATA3, GDNF, GRIP1, HNF1B, ITGA8, NPHP3, OSR1, PAX2, RET, ROBO2, SDCCAG8, SIX1, SIX5, SOX17, SPRY1, TBX18, TFAP2A, TRAP1, UPK3A, WT1 |
| 5 | Nephrotic Syndrome | 14 | ADCK4, ARHGDIA, COQ2, DGKE, EMP2, ITGA3, LAMB2, NPHS1, NPHS2, PLCE1, PTPRO, SMARCAL1, WDR73, WT1 |
| 6 | Focal Segmental Glomerulisclerosis | 14 | ACTN4, ALDH1A2, ANLN, APOL1, ARHGAP24, CD2AP, COQ6, CRB2, INF2, MYO1E, NXF5, PAX2, TRPC6, WDR73 |
| 7 | Alport Syndrome | 5 | CD151, COL4A3, COL4A4, COL4A5, MYH9 |
| 8 | C1q Deficiency | 3 | C1QA, C1QB, C1QC |
| 9 | Renal Tubular acidosis | 5 | ATP6V0A4, ATP6V1B1, CA2, SLC4A1, SLC4A4 |
| 10 | Bartter Syndrome | 8 | BSND, CASR, CLCNKA, CLCNKB, GNA11, KCNJ1, SLC12A1, SLC12A3 |
| 11 | Hypophosphatemic rickets | 11 | CLCN5, DMP1, ENPP1, FAH, FGF23, KL, OCRL, PHEX, SLC34A1, SLC34A3, VDR |
| 12 | Pseudohypoaldosteronism | 9 | CUL3, HSD11B2, KLHL3, NR3C2, SCNN1A, SCNN1B, SCNN1G, WNK1, WNK4 |
| 13 | Diabetes insipidus, nephrogenic | 3 | AQP2, AVPR2, AVP |
| 14 | Hyperoxaluria | 3 | AGXT, GRHPR, HOGA1 |
| 15 | Hemolytic Uremic Syndrome | 13 | ADAMTS13, C3, CD46, CFB, CFH, CFHR1, CFHR2, CFHR3, CFHR4, CFHR5, CFI, DGKE, THBD |
| 16 | Branchiootorenal Syndrome | 4 | EYA1, SIX1, SIX5, TFAP2A |
| 17 | Bardet- Biedl Syndrome | 24 | ALMS1, ARL6, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, CCDC28B, CEP290, IFT172, IFT27, LZTFL1, MKKS, MKS1, NPHP1, SDCCAG8, TRIM32, TTC21B, TTC8, WDPCP |
| 18 | Joubert Syndrome | 28 | AHI1, ARL13B, B9D1, C5orf42, CC2D2A, CEP104, CEP164, CEP290, CEP41, CSPP1, INPP5E, KIAA0556, KIAA0586, KIF7, NPHP1, OFD1, PDE6D, RPGRIP1L, TCTN1, TCTN2, TCTN3, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TTC21B, ZNF423 |
| 19 | Meckel Syndrome | 12 | B9D1, B9D2, CC2D2A, CEP290, MKS1, NPHP3, RPGRIP1L, TCTN2, TMEM216, TMEM231, TMEM67, WDPCP |
| 20 | Senior-Loken Syndrome | 12 | CEP164, CEP290, IFT81, INVS, IQCB1, NPHP1, NPHP3, NPHP4, SDCCAG8, TRAF3IP1, WDR19, ZNF423 |
| 21 | Complete Panel- Kidney Disease | 182 | ACE, ACTN4, ADAMTS13, ADCK4 , AGT, AGTR1, AGXT, AHI1, ALDH1A2, ALMS1, ANKS6, ANLN, APOL1, AQP2, ARHGAP24, ARHGDIA , ARL13B, ARL6, ATP6V0A4, ATP6V1B1, AVP, AVPR2, B9D1, B9D2, BBIP1, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BICC1, BMP4, BSND, C1QA, C1QB, C1QC, C3, C5orf42, CA2, CASR, CC2D2A, CCDC28B, CD151, CD2AP, CD46, CEP164, CEP290, CEP41, CEP83, CFB, CFH, CFHR1, CFHR2, CFHR3, CFHR4, CFHR5, CFI, CHD1L, CLCN5, CLCNKA, CLCNKB, COL4A3, COL4A4, COL4A5, COQ2, COQ6, CRB2, CSPP1, CUL3, DCDC2 , DGKE, DMP1, DSTYK, EMP2 , ENPP1, EYA1, FAH, FAN1, FGF20, FGF23, FOXC1, FRAS1, FREM1, FREM2, GATA2, GATA3, GDNF, GLIS2, GNA11, GRHPR, GRIP1, HNF1B, HOGA1, HSD11B2, IFT172, IFT27, INF2, INPP5E, INVS, IQCB1, ITGA3, ITGA8, KCNJ1, KIAA0586, KIF7, KL, KLHL3, LAMB2, LZTFL1, MKKS, MKS1, MUC1, MYH9, MYO1E, NEK8, NPHP1, NPHP3, NPHP4, NPHS1, NPHS2, NR3C2, NXF5, OCRL, OFD1, OSR1, PAX2, PDE6D, PHEX, PKD2, PKHD1, PLCE1, PTPRO, REN, RET, ROBO2, RPGRIP1L, SCNN1A, SCNN1B, SCNN1G, SDCCAG8, SIX1, SIX5, SLC12A1, SLC12A3, SLC34A1, SLC34A3, SLC41A1, SLC4A1, SLC4A4, SMARCAL1, SOX17, SPRY1 , TBX18, TCTN1, TCTN2, TCTN3, TFAP2A, THBD, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TRAP1, TRIM32, TRPC6, TTC21B, TTC8, UMOD, UPK3A, VDR, WDPCP, WDR19, WDR73, WNK1, WNK4, WT1, XPNPEP3, ZNF423 |