**Supplementary Table S11**. List of renal transporters in the solute carrier (SLC) superfamily that are known to have apical membrane localization. It has been demonstrated that apical membrane localization transporters possess a PDZ-motif consensus (S/T-X-h, where X is any amino acid and h is hydrophobic amino acids (A, F, L, M, I, W, P and V)) at their C-terminal. SLC22A24 has the PDZ-domain consensus sequence and support its role on apical membrane of the kidney.

|  |  |  |
| --- | --- | --- |
| **Seq-ID (UniprotID|Genename\_species)** | **Sequence** | **Membrane localization** |
| A0A087WWM3|SLC22A24\_HUMAN | KVTQF | Has the PDZ-domain consensus similar to other known apical membrane transporter |
| O15244|SLC22A2\_HUMAN | DIPLN | basolateral |
| Q9H015|SLC22A4\_HUMAN | LITAF | apical |
| O76082|SLC22A5\_HUMAN | KSTAF | apical |
| Q4U2R8|SLC22A6\_HUMAN | EKNGL | basolateral |
| Q9Y694|SLC22A7\_HUMAN | QVQN | basolateral |
| Q8TCC7|SLC22A8\_HUMAN | GLGSS | basolateral |
| Q9NSA0|SLC22A11\_HUMAN | ESTSL | apical |
| Q96S37|SLC22A12\_HUMAN | KSTQF | apical |
| Q9Y226|SLC22A13\_HUMAN | SSTYF | apical |
| P11168|SLC2A2\_HUMAN | GATET | apical |
| Q16348|SLC15A2\_HUMAN | KKTKL | apical |
| Q14916|SLC17A1\_HUMAN | QHTRL | apical |
| O00476|SLC17A3\_HUMAN | KLTRL | apical |
| Q9Y2C5|SLC17A4\_HUMAN | TFTHL | apical |
| Q9BZV2|SLC19A3\_HUMAN | MSTKL | apical |