

Product datasheet for **MC218527**

Slc14a1 (NM_001171011) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a1 (NM_001171011) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc14a1
Synonyms: 2610507K20Rik; 3021401A05Rik; UT-B; Utb1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC218527 representing NM_001171011
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGATAGTCCACCATGGTTAAAGTAGACCGGGGTAAAACCAGATTTTATCATGCCGCGGGAGAA
GGTGTGGCTTCAAAGTACTTGGCTACGTCACGGGTGACATGAAGGAATTCGCCAACTGGTGAAAGACAA
ACCCGTGGTGCTCCAGTTCATGGACTGGATACTTCGTGGCATATCCAGGTGGTGTGGTGCAGCAACCC
ATCAGTGGAAATCCTGATTCTGGTGGGACTTCTGGTCCAGAACCCCTGGTGGGCTCTCTGTGGCTGTGTAG
GAACTGTGGTCTCCACTCTGACAGCCCTCTTGCTTAGCCAAGACAGATCGGCGATAGCAGCGGGGCTCCA
AGGTTACAATGCCACCCTGGTAGGCATCCTCATGGCTGTCTTCTCAAACAAGGGCGACTATTTCTGGTGG
CTGATATCCCTGTATCTGCTATGTCTATGACTTGCCCGTTTTCTCGAGCGCGTTGAGCTCCGTGCTCA
GCAAGTGGGACCTGCCCGTCTTCACTCTCCCTTCAACATGGCGTTGTCGATGTACCTGTCAGCCACAGG
ACACTACAATACGTTTTTCCCAAGTAACTCTTACACCTGTGAGCTCCGTGCCAACATCACGTGGTCT
GAGCTCAGCGCCCTGGAGCTATTGAAGTCTCTCCGGTGGGAGTCGGTCAGATATATGGCTGTGACAAC
CGTGGACAGGCGGCATTTTCTATGTGCTATCCTGCTCTCCTCCCCTCATGTGCGCTGCACGCTGCTAT
TGGATCGTTGCTGGGTGTCATCGCGGGACTCAGTCTTGCAGCTCCATTTGAAGACATCTACTTTGGGCTC
TGGGGTTTCAACAGCTCTCTGGCCTGCATTGCAATTGGAGGGATGTTTATGGCACTCACCTGGCAGACCC
ACCTCCTGGCTCTTGCCTGTGCCCTGTTCACTGCCTACTTCGGAGCCTGTATGGCACACCTGATGGCTGT
GGTTCACCTGCCAGCTTGTACCTGGTCTTCTGTTTGGCCACACTACTCTTTCTCTTGTGACCACGAAA
AATCCCAACATCTACAGGATGCCCTCAGCAAAGTTACCTACTCTGAGGAGAACCGCATCTTCTACCTCC
AAAACAAGAAAAGGATGGTTGAAAGCCCTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



[View online >](#)

| | |
|-------------------------------|--|
| ACCN: | NM_001171011 |
| Insert Size: | 1155 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | <u>NM_001171011.1, NP_001164482.1</u> |
| RefSeq Size: | 3615 bp |
| RefSeq ORF: | 1155 bp |
| Locus ID: | 108052 |
| UniProt ID: | <u>Q8VHL0</u> |
| Cytogenetics: | 18 E3 |
| Gene Summary: | <p>Urea channel that facilitates transmembrane urea transport down a concentration gradient. A constriction of the transmembrane channel functions as selectivity filter through which urea is expected to pass in dehydrated form. The rate of urea conduction is increased by hypotonic stress. Plays an important role in the kidney medulla collecting ducts, where it allows rapid equilibration between the lumen of the collecting ducts and the interstitium, and thereby prevents water loss driven by the high concentration of urea in the urine. Facilitates urea transport across erythrocyte membranes. May also play a role in transmembrane water transport, possibly by indirect means.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (b) is shorter than isoform 1. Variants 2 and 3 encode the same isoform (b).</p> |