

Product datasheet for **MC209796**

Slc14a2 (NM_001110273) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc14a2 (NM_001110273) Mouse Untagged Clone
Tag: Tag Free
Symbol: Slc14a2
Synonyms: UT-A1; UT-A3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209796 representing NM_001110273
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGAGGAGAGCACTGAGATAAAGGTGGAAGCCAACACAGCCAGGACTTCCTGGATTCAGAGCTCCATGG
TCGCTGGGGGAAGAGAGTCAGCAAAGCCCTCAGCTACATCACAGGAGAGATGAAGGAATCGGGCAGGG
ACTTAAAGATAAATCTCCAGTGTCCAGTTTCTTGACTGGGTGCTCCGGGCATGTCTCAGTGATGTTT
GTAACAACCCCTCTCAGCGGCATCCTCATCGTCTTGGCCTCTTCGTGCAGAATCCCTGGTGGGCTATCT
TGGGTTGCTTGGGCACTGTCATGTCCACCTGACTGCCCTCATCCTGAGCCAGGACAAGTCAGCCATTGC
AGCAGGACTCCATGGCTACAATGGGGTGTGTGGGGCTCCTGATGGCCGTGTTCTCGGACAAGGGCAAT
TACTACTGGTGGCTGCTGCTTCTGTGTCATTGTCATGTCCATGACTTGCCCATCCTTCCAGTGCCCTGA
GCACCGTCTTCAGCAAGTGGGACCTCCCAGTCTTCACACTGCCCTTCAACATCGCCGTGACCCTGTACCT
GGCAGCGACGGGCCACCACAATCTTCTTCCCCACGACGCTGCTACAGCCTACAACCACTCCACCCAAC
ATCACCTGGTCAGATATCCAAGTGTCTTGTCTGAGAGCCATCCCGTTGGAATCGGCAAGTGTACG
GGTGTGACAACCCCTGGACTGGAGGCATCTTCTGGTGCCTGTTCATCTCTTCGCCTCTCATTGCTT
GCATGCTGCCATTGGATCCACCATAGGGATGTTAGCAGCACTCAGCATTGCCACACATTGACTCCATC
TACTTCGGCCTGTGTGGCTTCAACAGCACCTGGCCTGCATCGCCATTGGTGGCATGTTCTACGTATCA
CCTGGCAGACCCACCTGCTCGCCATTGCCTGTGCCCTGTTTGCAGCCTACCTGGGTGCTGCCCTGGCCAA
CATGCTGTCTGTGTTGGATTACCACCCTGCACCTGGCCCTTCTGCCTCTCGGCGCTCACCTTCTCCTC
CTGACAAGCAACAACCCCTGCCATCTATAAGCTGCCTCTCAGCAAAGTCACCTACCCAGAGGCCAACCGCA
TCTACTTCTGTCCAGGAAAAAACAGAAGGGCATCAACGATAACTAAGTACCAGGCCTACGACGTCTC
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001110273
Insert Size:	1194 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_001110273.1</u> , <u>NP_001103743.1</u>
RefSeq Size:	2905 bp
RefSeq ORF:	1194 bp
Locus ID:	27411
Cytogenetics:	18 E3
Gene Summary:	<p>Specialized low-affinity vasopressin-regulated urea transporter. Mediates rapid transepithelial urea transport across the inner medullary collecting duct and plays a major role in the urinary concentrating mechanism. Vasopressin regulates urea transport by increasing isoform A1 accumulation in the plasma membrane and/or phosphorylation of isoform A1 (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3), also known as UT-A2, contains a distinct 5' UTR and lacks multiple 5' coding exons, compared to variant 1. The resulting isoform (c) has a substantially shorter N-terminus, compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>