

Product datasheet for **MC222690**

Slc14a2 (NM_207651) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_207651) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc14a2
Synonyms:	UT-A1; UT-A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222690 representing NM_207651
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGACCACCACCCCTGAAGGAGATGCTGACAGCAACAGCAGCCCTCTTTGCCAGAGCCTCTTT
 CCAGCAGATACAAATTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCCAGGATACACA
 CCCAGCCCTTCCCTGCTGGAAATGCCGAAGAAAAGGATCTCCGCTCATCAGATGAAGACAGCCACATA
 GTGAAGATTGAAAAACCAATGAGAGGAATAAAAGGAGAGAAAAGTGAGGTGTCCCGCCGGGCTTCTGCGG
 GCCGGGGAGGCTTCCAGCCTTCCAAGCCGTGAGCTATCTCACTGGCGACATGAAGGAATGCAAGAAGT
 GCTGAAAGATAAGCCCTGGTCTACAGTTCCTAGACTGGGTCTTGGGGAGCAGCTCAGGTGATGTTT
 GTCAACAACCCCATAGTGGGCTCATCATCTTCATAGGGCTCCTAATCCAGAATCCCTGGTGGACGATTG
 CTGGGACACTGGGACAGTGGCTTCAACCTTGGCTGCCCTTGCCTAAGCCAGGACAGGTGAGCCATCGC
 CTCGGACTCCATGGCTACAACGGGATGCTGGTGGGACTGCTGATGGCTGTCTTCTCGGAGAAGTTAGAC
 TACTACTGGTGGCTTCTGTTTCCCTGTGACTTTCATCCATGGCCTGCCCATATTTCTAGTGCCTTGA
 GTACCATCTTCGCCAAGTGGGACCTGCCGCTTTCACACTGCCCTTCAACATTGCCTAACACTGTACCT
 GGCAGTACGGGCCACTACAACCTTTTCTTCCCACCAGCTCATCAAGCCTGCGTCTGCAGCTCCCAAT
 ATCACCTGGACAGAGATTGAAATGCCTTGTGTTACAAACCATCCCTGTTGGGGTGGCCAGGTCTACG
 GCTGTGACAACCCCTGGACAGGTGGCATGATCCTGGTGGCTCTGTTTATCTCTCCCACTCATCTGCTT
 ACATGCAGCCATAGGGTCAATCGTGGGGCTGCTAGCAGCATTGACTGTGGCCACTCCCTTGGAGACGATC
 TACCTGGGCTTTGGAGCTACAACCTGTGCTCTCCTGCATTGCCATTGGCGCATGTTCTACGCACTCA
 CCTGGCAGACACACCTGCTGGCACTTGTCTGTCCTGTGTCCTGTCTGTGCATACATGGGAGCTCCCTCA
 TACAATGGCAGTGGTTGGCGTGCCTCAGGCACCTGGGCCTTCTGTCTCTCCACCCTCACCTTCTCCTC
 CTCACAAGCAACAACACTGGCATCTACAAGCTCCCACTCAGCAAAGTCACTACCCGAGGCCAACCGCA
 TCTACTTCTGACAGTGAGACGCAGTGAAGAGGAGAAGTCCCAATGGTGGCAGTGGAGAGCAGTCACA
 CGGATCAGGCCAGTGAAGGCAGAGAGAGCTCTGAGACCGTGCCTCCAGGCGTAGGAGTGTGTTCCAC
 ATCGAGTGGTATCCATCCGGAGGAGGAGCAAAGTGTGTTGAAAAGGCGAACACCAAGAGAGGCCAAACA
 AAGAGCCACTGCCCTGCCGTATCGGAAGCCACAGTGGAGCTCTTTGACCTGGACACCATGGAGGAGAG
 CACTGAGATAAAGGTGGAAGCCAACACAGCCAGGACTTCTGGATTGAGAGCTCCATGGTGCCTGGGGG
 AAGAGAGTCAAGGCCCTCAGCTACATCACAGGAGAGATGAAGGAATGCGGCGAGGGACTTAAAGATA
 AATCTCCAGTGTCCAGTTTCTGACTGGGTGCTCCGGGCGATGTCTCAGGTGATGTTTGTAAACAACCC
 TCTCAGCGGCATCCTCATCGTCTTGGCCTTCTCGTGCAGAATCCCTGGTGGGCTATCTGGGTTGCTTG
 GCACTGTGATGTCCACCTGACTGCCCTCATCCTGAGCCAGGACAAGTCAAGCATTGACAGCAGGACTCC
 ATGGCTACAATGGGGTGTGTTGGGGCTCCTGATGGCCGTGTTCTCGGACAAGGGCAATTAATACTGGT
 GCTGCTGCTTCTGTGATGTGATGTCATGACTTGGCCCATCTTTCCAGTGCCTGAGCACCGTCTTC
 AGCAAGTGGGACCTCCAGTCTTCACTGCCCCCAACATCGCCGTGACCCTGTACCTGGCAGCGACGG
 GCCACCACAATCTTCTTCCCCAGCAGCTGTACAGCCTACAACCACTCCACCAACATCACCTGGTC
 AGATATCCAAGTGTCTTTGCTTCTGAGAGCCATCCCGTTGGAATCGGCCAAGTGTACGGGTGTGACAAC
 CCTGGACTGGAGGCATCTTCTGGTGCCTGTTTCATCTCTTCGCTCTCATTGCTTGCATGCTGCCA
 TTGGATCCACCATAGGATGTTAGCAGCACTCAGCATTGCCACACCATTTGACTCCATCTACTTCGGCCT
 GTGTGGCTTCAACAGCACCCCTGGCCTGCATCGCCATTGGTGGCATGTTCTACGTCACTCACCTGGCAGAC
 CACCTGCTCGCCATTGCCTGTGCCCTGTTTGCAGCCTACCTGGGTGCTGCCCTGGCCAACATGCTGTCTG
 TGTGGATTACCACCTGCACCTGGCCCTTCTGCCTCTCGGCGCTCACCTTCTCTCTGACAAGCAA
 CAACCTGCCATCTAAGCTGCCTCTCAGCAAAGTCACTACCCAGAGGCCAACCCGATCTACTTCTCTG
 TCCAGGAAAAAACAGAAGGCATCAACGATAACTAAGTACCAGGCCTACGACGTCTCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_207651
Insert Size:	2793 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:	NM_207651.3 , NP_997534.2
RefSeq Size:	4045 bp
RefSeq ORF:	2793 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 (1), also known as UT-A1, represents the longest transcript and encodes the longest 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>