

Product datasheet for **MC216140**

Slc14a2 (NM_030683) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_030683) 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: >MC216140 representing NM_030683
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGTGACCACCACCCCTGAAGGAGATGTCTGACAGCAACAGCAGCCCTCTCTTGCCAGAGCCTCTTT
 CCAGCAGATACAAATTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCCAGGATACACA
 CCCAGCCCTTCCCCTGCTGGAAATGCCGAAGAAAAGGATCTCCGCTCATCAGATGAAGACAGCCACATA
 GTGAAGATTGAAAAACCAATGAGAGGAATAAAAGGAGAGAAAGTGAGGTGTCCCGCCGGGCTTCTGCGG
 GCCGGGGAGGCTTCAGCCTCTTCCAAGCCGTGAGCTATCTCACTGGCGACATGAAGGAATGCAAGAACTG
 GCTGAAAGATAAGCCCTGGTCTACAGTTCTAGACTGGGTCTTGGGGAGCAGCTCAGGTGATGTTT
 GTCAACAACCCCATAGTGGGCTCATCTTTCATAGGGCTCCTAATCCAGAATCCCTGGTGACGATTG
 CTGGGACACTGGGACAGTGGCTTCAACCTTGGCTGCCCTTGCCTTAAGCCAGGACAGGTCAGCCATCGC
 CTCGGACTCCATGGCTACAACGGGATGCTGGTGGGACTGCTGATGGCTGTCTTCTCGGAGAAGTTAGAC
 TACTACTGGTGGCTTCTGTTTCTGTGACCTTCATCCATGGCCTGCCCATATTCTAGTGCCTTGA
 GTACCATCTTCGCCAAGTGGGACCTGCCGCTTTCACACTGCCCTTCAACATTGCCTTAACACTGTACCT
 GGCAGCTACGGGCCACTACAACCTTTTCTTCCCCACCAGCTCATCAAGCCTGCGTCTGCAGCTCCCAAT
 ATCACCTGGACAGAGATTGAAATGCCTTTGCTGTTACAAACCATCCCTGTTGGGGTGGCCAGGTCTACG
 GCTGTGACAACCCCTGGACAGGTGGCATGATCCTGGTGGCTCTGTTTATCTCTCCCACTCATCTGCTT
 ACATGCAGCCATAGGGTCAATCGTGGGGCTGCTAGCAGCATTGACTGTGGCCACTCCCTTTGAGACGATC
 TACCTGGGCTTTGGAGCTACAACCTGTCTCTCTGCTGATTGCCATTGGCGGCATGTTCTACGCACTCA
 CCTGGCAGACACCTGCTGGCACTTGTCTGTGCCCTGTTCTGTGCATACATGGGAGCTGCCCTCTCCAA
 TACAATGGCAGTGGTGGCGTGCCCTCAGGCACCTGGGCCCTTCTGTCTCTCCACCCTCACCTTCTCCTC
 CTCACAAGCAACAACACTGGCATCTACAAGCTCCCACTCAGCAAAGTCACCTACCCGGAGGCCAACCGBA
 TCTACTTCTGACAGTGAGACGAGTGAAGAGGAGAAGTCCCCCAATGGTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_030683
- Insert Size:** 1386 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:**
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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_030683.3 , NP_109608.1
RefSeq Size:	2054 bp
RefSeq ORF:	1386 bp
Locus ID:	27411
UniProt ID:	Q8R4T9
Cytogenetics:	18 E3
Gene Summary:	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] Transcript Variant: This variant (2), also known as UTA-3, contains a distinct 3' CDS and 3' UTR, compared to variant 1. The resulting isoform (b) has a substantially shorter and distinct C-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.