

Product datasheet for **SC310046**

SLC14A2 (NM_007163) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC14A2 (NM_007163) Human Untagged Clone
Tag: Tag Free
Symbol: SLC14A2
Synonyms: hUT-A6; HUT2; UT-A2; UT2; UTA; UTR
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_007163 edited
 GAAGAGTGGCTGTGACCCGAAGGAATGTCTGACCCCCACAGCAGTCTCTCTGCCAGAG
 CCACTTTCCAGCAGATACAAACTCTACGAGGCAGAGTTTACCAGCCCAGCTGGCCCTCG
 ACATCCCCGGATACTCACCCAGCTCTGCCCTCCTGAAAATGCCTGAAGAAAAGGATCTC
 CGGTCTTCCAATGAAGACAGTCACATTGTGAAGATCGAAAAGCTCAATGAAAGGAGTAAA
 AGGAAAGACGACGGGGTGGCCCATCGGGACTCAGCAGGCCAAAGGTGCATCTGCCTCTCC
 AAAGCAGTGGGCTACCTCACGGGCGACATGAAGGAGTACAGGATCTGGCTGAAAGACAAG
 CACCTTGGCCCTCCAGTTCATAGACTGGGTCTGAGAGGGACCGCTCAGGTGATGTTTCGTC
 AACATCTCTCAGCGGCCTCATCATCTTCATAGGGCTGCTGATCCAGAATCCCTGGTGG
 ACAATCACTGGGGCCTGGGGACAGTGGTCTCGACCTAACAGCTCTCGCCTTGGGCCAA
 GACAGGTCTGCCATTGCCTCAGGACTCCATGGGTACAACGGGATGCTGGTGGGACTGCTG
 ATGGCCGTGTTCTCGGAGAAGTTAGACTACTACTGGTGGCTTCTGTTTCTGTGACCTTC
 ACAGCCATGTCCTGCCAGTTCTTTCTAGTGCCTTGAATTCATCTTCAGCAAGTGGGAC
 CTCCCGGTCTTCACTCTGCCCTTCAACATTGCAGTCACCTTGTACCTTGACCTTGACGCCACAGGC
 CACTACAACCTCTTCTTCCCCACAACACTGGTAGAGCCTGTGTCTTCACTGCCCCAATATC
 ACCTGGACAGAGATGAAATGCCCTGCTGTTACAAGCCATCCCTGTTGGGGTGGCCAG
 GTGTATGGCTGTGACAATCCCTGGACAGGCGCGTGTTCCTGGTGGCTCTGTTTCACTCC
 TCGCCACTCATCTGCTTGCATGCAGCCATTGGCTCAATCGTGGGGCTGCTAGCAGCCCTG
 TCAGTGGCCACACCCCTTCGAGACCATCTACACAGGCCCTCGGAGCTACAACCTGCTCCTC
 TCCTGCATCGCCATCGGAGGCATGTTCTATGCCCTCACCTGGCAGACTCACCTGCTGGCC
 CTCATCTGTGCCCTGTTCTGTGCATACATGGAAGCAGCCATCTCCAACATCATGTCAAGT
 GTGGGCGTGCCACCAGGCACCTGGGCTTCTGCCTTGCCACCATCATCTTCTGCTCCTG
 ACGACAAACAACCCAGCCATCTTCAGACTCCCCTCAGCAAAGTCACCTACCCCGAGGCC
 AACCGCATCTACTACCTGACAGTAAAAGCGGTGAAGAAGAGAAGGCCCCAGCGGAGGC
 GGTGGGGAGCATCCACCCACAGCAGGCCAAAGGTGGAGGAGGGCTCGGAGGCTGTGCTC
 TCCAAGCACAGGAGTGTATTTACATCGAGTGGTCATCCATTGAGGAGGAGCAAAGTG
 TTTGAAAAGGCCAACACCAGGAAAGACAAAACAAGACCCATTTCCCTATCAATACCGG



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AAGCCACAGTCGAGCTGCTTGATCTGGACACCATGGAGGAGAGCTCTGAGATAAAAGTG
 GAAACAAACATTTCCAAGACATCCTGGATTTCGAGTTCCATGGCTGCCAGTGGGAAAAGG
 GTGAGCAAAGCCCTCAGCTACATCACAGGAGAGATGAAGGAGTGTGGAGAGGGACTTAA
 GACAAGTCCCCAGTGTCCAGTTCTTTGACTGGGTCTCCGAGGCACATCTCAAGTGATG
 TTTGTGAACAACCCCTCAGCGGCATCCTCATCATCCTCGGCCTTTCATCCAGAACCC
 TGGTGGGCGATCTCAGGCTGCCTGGGTACCATCATGTCCACCTTGACAGCCCTCATCCTG
 AGTCAGGACAAGTCGGCCATCGCTGCAGGATTTACGGCTACAATGGGGTGTGGTGGGG
 CTGCTGATGGCCGTGTTCTCAGACAAAGGTGACTACTACTGGTGGCTGTTGCTACCCGTC
 ATCATCATGTCCATGTCTTGCCCATCCTCTCCAGTGCCCTGGGTACCATCTTCAGCAAG
 TGGGACCTCCCAGTCTTCACACTGCCCTTCAATATCACTGTGACTTTGTACCTGGCAGCC
 ACGGGCCACTACAACCTTTTCTCCCAACGCTGCTGCAGCCTGCATCCGCCATGCC
 AACATCACCTGGTCAGAGGTCCAAGTGCCTTGCTTTTGAGAGCCATCCCCGTTGGAATT
 GGCCAAGTGTACGGCTGTGATAACCCCTGGACTGGAGGCATCTCCTCATAGCTGTGTC
 ATATCCTCACCTCTCATTGCTTGCATGCAGCAATTGGATCCACCATGGGGATGCTAGCA
 GCACTCACTATTGCGACGCCCTTTGACTCCATCTACTTCGGCCTGTGTGGCTTCAACAGC
 ACCCTCGCATGCATAGCGATAGGAGGCATGTTCTACGTATCACCTGGCAGACGCACCTC
 CTCGCCATCGCCTGCGCACTGTTTGCTGCCTACCTGGGTGCTGCCCTGGCTAACATGTTA
 TCTGTGTTTGATTGCCGCCCTGCACTTGGCCCTTCTGTCTCTCAGCTCTCACCTTCTG
 CTCCTGACGACCAATAACCCACCATCTACAAGTCCCGCTCAGCAAAGTCACCTACCCA
 GAGGCCAACCGCATCTACTACCTGTCCCAGGAGAGAAACAGAAGGGCATCAATCATAACA
 AAGTATCAGGCCACGATGTCTCCTAAGTTTCCCTGTCTAAAATACATCAGTGTAATTC
 AGGCTTCAGCACGCAGTCCAGATCCCAGGATAAGAGACCACTTAGCCTTCCCTTTGGTC
 TGTCTGTGACTCTCTCCCAACACAAAGAAGCGTGTATGTAGTCACCATTCAGAACCC
 TCTCTTTTCTAAGATGCACAACACTTATCAAAGATATGTTTAGTTTAGACTTTATACCCT
 TAGCTTTCCATAAGAGCTCCCTTTGTGGGAACTTGCCCTTCTCTGC

- Restriction Sites:** Please inquire
- ACCN:** NM_007163
- Insert Size:** 3000 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_007163.2.
- 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.
- RefSeq:** [NM_007163.2](#), [NP_009094.2](#)

RefSeq Size: 4166 bp

RefSeq ORF: 2763 bp

Locus ID: 8170

UniProt ID: [Q15849](#)

Cytogenetics: 18q12.3

Domains: UT

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the urea transporter family. In mammalian cells, urea is the chief end product of nitrogen catabolism, and plays an important role in the urinary concentration mechanism. This protein is expressed in the inner medulla of the kidney, and mediates rapid transepithelial urea transport across the inner medullary collecting duct. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.