

Product datasheet for **RN200355**

Slc14a2 (NM_177962) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_177962) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc14a2
Synonyms:	Slc14a2T; Slc14a2_v4; testSymbol; UrT1-C; UrT1-D
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200355 representing NM_177962
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGACCATCCCCTGAAGGAGATGTCTGACAACAACCGCAGCCCCCTTTGCCAGAGCCTTTTCCA
 GCAGATACAAGTTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCAGGATACACACCC
 AGCCCTTCCCCTGCTGGAATGCCTGAAGAAAAGGATCTCCGATCATCGGATGAAGACAGCCACATAGTG
 AAGATTGAAAAGCCCAACGAGCGGAGTAAACGGAGAGAAAAGCGAGTTGCCCGCAGGGCTTCTGCAGGCC
 GGGGAGGCTTTCAGCCTTCCAAGCTGTGAGCTACCTCACTGGTACATGAAGGAATGCAAGAACTGGCT
 GAAAGATAAGCCCTGGTCTTCACTTCTAGACTGGTCTGCGGGGAGCAGCTCAGGTGATGTTTGT
 AACACCCCTTAGTGGGCTCATCATCTTCATAGGGCTCTGATCCAGAATCCCTGGTGGACGATTGCTG
 GGGCACTGGGACAGTGGTCTAACCTTGGCTGCCCTTGCCTTGAGCCAGGACAGGTGAGCCATCGCCTC
 TGGACTCCATGGGTACAACGGGATGCTGGTGGGACTCCTGGTGGCTGTCTTCTCAGAGAAGTTAGACTAC
 TACTGGTGGCTTCTGTTTCTGTGACCTTCGCATCCATGGCCTGCCAGTATTTCTAGTGCCTTGAGCA
 CCGTCTTCGCAAGTGGGACCTGCCAGTCTTACACTGCCCTTCAACATCGCCTTAACACTGTACCTGGC
 AGCTACGGGCCACTACAACCTTTTCTTCCCACGACGCTTGTGAAGCCTGCGTCTTACAGCCCAACATC
 ACCTGGTCAGAGATTGAGATGCCTTTGCTGTTACAACCATCCCCGTTGGGGTGGCCAGGTCTACGGCT
 GTGACAACCCCTGGACAGGCGCGGTGATCCTGGTGGCTCTGTTTATCTCCTCTCCCCTCATCTGTTTGA
 CGCAGCCATAGGATCCATTGTGGGGTCTGTCGACACTGACGGTGGCCACTCCCTTCGAGACGATCTAC
 ACGGGCCTTTGGAGCTACAACCTGTCTCTCCTGTGTGCCATTGGAGGCATGTTCTACGTAACCTACCT
 GGCAGACACACCTGTTGGCACTGTCTGCCCCTGTTCTGTGCGTACAGGGAGCGGCCCTTCCAATAT
 GATGGCAGTGGTTGGTGTGCCACCGGGCCTGGGCTTCTGTCTCCACCCTCACCTTCTTCTCCTC
 ACAAGCAACAACCTGGCATCCACAAGCTCCCACTCAGCAAAGTACCTACCCAGAGGCCAACCGCATCT
 ACTTCTGACAGCGAAACGCAGTGACGAGCAGAAGCCCCCAATGGTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_177962

Insert Size: 1383 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.

RefSeq: [NM_177962.3](#), [NP_808877.2](#)

RefSeq Size: 1989 bp

RefSeq ORF: 1383 bp

Locus ID: 54302

UniProt ID: [Q62668](#)

Cytogenetics: 18q12.3

Gene Summary: acts as an cAMP inducible urea transporter; may play a role in vasopressin regulated renal water absorption [RGD, Feb 2006]
Transcript Variant: This variant (2), also known as UT-A3 or UT4, contains a distinct 3' CDS and 3' UTR, compared to variant 1. The resulting isoform (2) has a substantially shorter and distinct C-terminus, compared to isoform 1.