

## Product datasheet for **RN212184**

### Slc22a2 (NM\_031584) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a2 (NM_031584) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc22a2
Synonyms:	OCT2; OCT2r; rOCT2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212184 representing NM\_031584  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGACCGTGGATGATATTCTAGAACATATAGGGGAATTCACCTTTTTCAGAAACAAACATTTTCC  
 TCTTAGCTCTGCTGTCTGGTGCCTCACCCCATCTACGTGGGCATCGTTTTCTAGGATTTACCCCTGA  
 CCACCACTGCTGGAGTCTGGGGCAGCCAAGCTGAGCCAGCGGTGTGGCTGGAGCCAGGCAGAGGAGCTG  
 AACTACACCGTGCCGGTCTGGGACCTTCGGACGAGGCCTCCTTCCTCAGCCAGTGCATGAGGTATGAAG  
 TGGACTGGAACCAGAGCACCCCTTACTGTGTGGACCCACTGTCCAGCCTGGCTGCGGACAGGAACCAAGT  
 GCCATTGGGCCCTGCGAGCATGGCTGGGTATACAACACTCCCGCTCCTCATTGTCACTGAGTTAAAC  
 CTGGTGTGTGCTCACTCCTGGATGCTGGACCTGTTTCAGTCAGTAGTGAACGTGGGGTTTTTCATCGGTG  
 CTATGATGATTGGCTACCTAGCGGACAGGTTTGGCCGGAAGTTCTGCCTTTGGTCACCATCCTCATCAA  
 TGCTATCTCTGGGCTCTCATGGCGATTCTCCCAACTATGCCTGGATGTTGGTGTTCGTTTTCTCCAG  
 GGACTGGTCAGCAAAGCAGGCTGGTTAATTGGCTACATCCTGATTACAGAATTTGTTGGGCTGGGCTATC  
 GCAGAATGGTGGGGATTTGCTATCAAATCGCCTTCACCCTTGGCCTCCTGATCCTGGCTGGAGTGGCCTA  
 TGTGATCCCAACTGGAGATGGCTACAATTTGCTGTGACTCTGCCCAACTTCTGCTTCTGCTCTATTTT  
 TGGTGCATACCGGAATCTCCAAGATGGCTGATCTCCAGAACAAAATCGTAAAAGCCATGAAGATAATTA  
 AACATATTGCTAAGAAAAATGGAAAGTCGGTCCGGTCTCTCTTCAGAACCTGACACCAGATGAGGACGC  
 TGGCAAGAAATGAAACCTTCAATCCTGGACTTGGTCAGAACCCCTCAGATAAGGAAACACACGTTGATC  
 TTGATGTACAATTGGTTACAGAGCTCTGTTCTCTACCAGGGCCTCATCATGCACATGGGCCTTGCAGGGG  
 ACAACATCTACCTGGATTTCTTCTACTCCGCCCTGGTGGAGTTTCCAGCCGCCTTATCATCATCCTCAC  
 CATCGACCGGGTTGGTCCGCCCTATCCCTGGGCTGTGTCAAATATGGTGGCAGGAGCAGCCTGTCTAGCC  
 TCTGTTTTATCCCTGATGATCTACAGTGGCTGAAAATTACCATTGCATGCTTGGGTAGAATGGGCATCA  
 CCATGGCCTATGAAATGGTCTGCCTGGTCAATGCTGAGCTGTACCCACATACATCAGGAATCTTGGTGT  
 CCTTGTCTGCTCCTCCATGTGTGACATTGGCGGCATCATCACGCTTTCTCGTCTACCGTCTCACGGAC  
 ATCTGGATGGAGTTCCCACTGGTGTATTTGCTGTGGTTGGCCTTGTGCTGGGGCACTTGTGCTGTTGC  
 TACCTGAGACCAAAGGAAGGCTCTGCCTGAGACCATCGAGGATGCCGAGAATATGCAGAGGCCAAGAAA  
 AAAAGAAAGAAAAGAGAATTTACCTCCAAGTCAAGCAAGCAGACCGTCCGCTAAGCTAAAAAGAAAGGGC  
 ATCATTGCTGCTGGAGCTGACTTTGCTCTCTGAGGCCAGAGATGGAGCTTCTCTCCCTCCCCCA  
 AACCCACACAAACCAACCTCACTTACCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_031584  
**Insert Size:** 1782 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_031584.2</a> , <a href="#">NP_113772.1</a>
<b>RefSeq Size:</b>	2149 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	29503
<b>UniProt ID:</b>	<a href="#">Q9R0W2</a>
<b>Cytogenetics:</b>	1q11
<b>Gene Summary:</b>	acts as a transporter for organic cations and non-neuronal monoamines; may play a role in organic cation/H <sup>+</sup> antiport function in renal brush border membrane vesicles [RGD, Feb 2006]