

## Product datasheet for **MR220066**

### **Slc14a2 (NM\_030683) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc14a2 (NM_030683) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc14a2
Synonyms:	UT-A1; UT-A3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR220066 representing NM\_030683  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTGACCACCACCCCTGAAGGAGATGTCTGACAGCAACAGCAGCCCTCTTTGCCAGAGCCTCTTT  
 CCAGCAGATACAAATTGTATGAGTCAGAGCTAAGCAGCCCTACCTGGCCTTCAAGCTCCCAGGATACACA  
 CCCAGCCCTTCCCTGCTGGAAATGCCGGAAGAAAAGGATCTCCGCTCATCAGATGAAGACAGCCACATA  
 GTGAAGATTGAAAAACCAATGAGAGGAATAAAAGGAGAGAAAAGTGAGGTGTCCCGCCGGGCTTCTGCGG  
 GCCGGGGAGGCTTCAAGCCTTCCAAGCCGTGAGCTATCTCACTGGCGACATGAAGGAATGCAAGAAGT  
 GCTGAAAGATAAGCCCTGGTCTACAGTTCCTAGACTGGGTCTTGGGGAGCAGCTCAGGTGATGTTT  
 GTCACAAACCCATTAGTGGGCTCATCTTTCATAGGGCTCCTAATCCAGAATCCCTGGTGGACGATTG  
 CTGGGACACTGGGACAGTGGCTTCAACCTTGGCTGCCCTTGCCTAAGCCAGGACAGGTGAGCCATCGC  
 CTCGGACTCCATGGCTACAACGGGATGCTGGTGGGACTGCTGATGGCTGTCTTCTCGGAGAAGTTAGAC  
 TACTACTGGTGGCTTCTGTTTCTGTGACTTTCATCCATGGCCTGCCCATATTTCTAGTGCCTTGA  
 GTACCATCTTCGCCAAGTGGGACCTGCCCGTCTTCACTGCCCCTTCAACATTGCCTAACACTGTACCT  
 GGCAGTACGGGCCACTACAACCTTTTCTTCCCACCAGCTCATCAAGCCTGCGTCTGCAGCTCCCAAT  
 ATCACCTGGACAGAGATTGAAATGCCTTGTGTTACAAACCATCCCTGTTGGGGTGGCCAGGTACG  
 GCTGTGACAACCCCTGGACAGGTGGCATGATCCTGGTGGCTCTGTTTATCTCTCCCACTCATCTGCTT  
 ACATGCAGCCATAGGGTCAATCGTGGGGCTGCTAGCAGCATTGACTGTGGCCACTCCCTTGGAGCAGT  
 TACCTGGGCCTTGGAGCTACAACCTGTGCTCTCCTGCATTGCCATTGGCGGCATGTTCTACGCACTCA  
 CCTGGCAGACACACCTGCTGGCACTTGTCTGTGCCCTGTCTGTGCATACATGGGAGCTGCCCTCCAA  
 TACAATGGCAGTGGTGGCGTGCCTCAGGCACCTGGGCCTTCTGTCTCTCCACCCTCACCTTCTCCTC  
 CTCACAAGCAACAACACTGGCATCTACAAGCTCCCACTCAGCAAAGTCACTACCCGAGGCCAACCCGA  
 TCTACTTCTGACAGTGAGACGAGTGAAGAGGAGAAGTCCCCCAATGGTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220066 representing NM\_030683  
 Red=Cloning site Green=Tags(s)

MSDHHPLKEMSDSNSSPLLPEPLSSRYKLYESELSSPTWPSSSQDTHPALPILLEMPPEEKDLRSSDEDSHI  
 VKIEKPNERNKRRESEVSRASAGRGGFSLFQAVSYLTGDMKECKNWLKDKPLVLQFLDWVLRGAAQVMF  
 VNNPISGLIIFIGLLIQNPWWTIAGTLGTVASTLAALALSQDRSAIASGLHGYNGMLVGLLMAVFSEKLD  
 YYWLLFPVTFSTMACPIISSALSTIFAKWDLPVFTLPFNIALTLYLAATGHYNLFFPTTLIKPASAAPN  
 ITWTEIEMPLLLQTIIPVGVGQVYGDNPWTGGMILVALFISSPLICLHAAIGSIVGLLAALTVATPFETI  
 YLGLWSYNCVLSIAIGGMFYALTWQTHLLALVCALFCAYMGAALSNTMAVVGVPSTWAFCLSTLTFLL  
 LTSNNTGIYKPLPSKVTYPEANRIYFLTVRRSEEEKSPNGD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

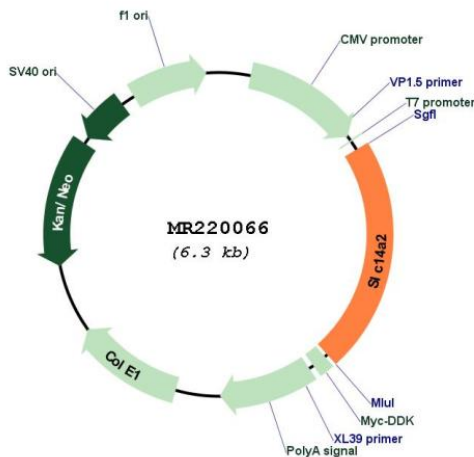
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_030683

ORF Size: 1383 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

<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>	<u><a href="#">NM_030683.3</a></u> , <u><a href="#">NP_109608.1</a></u>
<b>RefSeq Size:</b>	2054 bp
<b>RefSeq ORF:</b>	1386 bp
<b>Locus ID:</b>	27411
<b>UniProt ID:</b>	<u><a href="#">Q8R4T9</a></u>
<b>Cytogenetics:</b>	18 E3
<b>MW:</b>	51.1 kDa
<b>Gene Summary:</b>	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]