

## Product datasheet for **RC213567**

### SLC14A2 (NM\_007163) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC14A2 (NM_007163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC14A2
Synonyms:	hUT-A6; HUT2; UT-A2; UT2; UTA; UTR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC213567 representing NM\_007163  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGACCCCCACAGCAGTCCTCTCCTGCCAGAGCCACTTTCAGCAGATACAACTTTACGAGGCAG  
 AGTTTACCAGCCCGAGCTGGCCCTCGACATCCCGGATACCTACCCAGCTCTGCCCTCCTGGAAATGCC  
 TGAAGAAAAGGATCTCCGGTCTTCCAATGAAGACAGTCACATTGTGAAGATCGAAAAGCTCAATGAAAGG  
 AGTAAAAGGAAAGACGACGGGTGGCCATCGGGACTCAGCAGGCCAAAGGTGCATCTGCCTCTCCAAAG  
 CAGTGGGCTACCTCACGGGCGACATGAAGGAGTACAGGATCTGGCTGAAAGACAAGCACCTTGCCCTCCA  
 GTTCATAGACTGGGTCTGAGAGGGACCGCTCAGGTGATGTTCTGCAACAATCCTCTCAGCGGCCTCATC  
 ATCTTCATAGGGTCTGATCCAGAATCCCTGGTGACAATCACTGGGGGCTGGGGACAGTGGTCTCGA  
 CCTAACAGCTCTCGCCTGGGCCAAGACAGGTCTGCCATTGCCCTCAGGACTCCATGGGTACAACGGGAT  
 GCTGGTGGGACTGCTGATGGCCCGTCTCGGAGAAGTTAGACTACTACTGGTGGCTTCTGTTTCCTGTG  
 ACCTTCACAGCCATGTCCCTGCCAGTCTTTCTAGTGCCTTGAATTCATCTTCAGCAAGTGGGACCTCC  
 CGGTCTTCACTCTGCCCTCAACATTGCAGTCACCTTGTACCTTGACGCCACAGGCCACTACAACCTCTT  
 CTTCCCCACAACACTGGTAGAGCCTGTGTCTTCACTGCCCAATATCACCTGGACAGAGATGGAAATGCC  
 CTGCTGTTACAAGCCATCCCTGTTGGGGTCCGGCAGGTGTATGGCTGTGACAATCCCTGGACAGGCGGG  
 TGTTCTGGTGGCTCTGTTATCTCCTCGCCACTCATCTGCTTGCATGCAGCCATTGGCTCAATCGTGGG  
 GCTGCTAGCAGCCCTGTCACTGGCCACACCCTTCGAGACCATCTACACAGGCCTCGGAGCTACAACCTGC  
 GTCCTCTCCTGCATCGCCATCGGAGGCATGTTCTATGCCCTCACCTGGCAGACTCACCTGTCGCCCTCA  
 TCTGTCCCTGTTCTGTGCATACATGGAAGCAGCCATCTCAACATCATGTCAGTGGTGGCGTGGCCACC  
 AGGCACCTGGCCCTTCTGCCTTGGCACCATCATCTTCTGCTCCTGACGACAAACAACCCAGCCATCTTC  
 AGACTCCCACTCAGCAAAGTCACTACCCGAGGCCAACCAGCATCTACTACCTGACAGTGAAGAGCGGTG  
 AAGAAGAGAAGGCCCCAGCGGAGGCGGTGGGAGCATCCACCCACAGCAGGCCAAAGGTGGAGGAGGG  
 CTCGGAGGCTGTGCTCTCAAGCACAGGAGTGTATTTACATCGAGTGGTTCATCCATTGGAGGAGGAGC  
 AAAGTGTGGAAAGGCGAACACCAGGAAAGACAAAACAAGACCCATTTCCCTATCAATACCGGAAGC  
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 CAAGACATCCTGGATTCCGAGTTCATGGCTGCCAGTGGGAAAAGGTGAGCAAAGCCCTCAGCTACATC  
 ACAGGAGAGATGAAGGAGTGTGGAGAGGACTTAAAGACAAGTCCCAGTGTCCAGTCTTTGACTGGG  
 TCCTCCGAGGCACATCTCAAGTATGTTTGTGAACAACCCCTCAGCGGCATCCTCATCCTCGGCCCT  
 TTTCATCCAGAACCCTGGTGGGCGATCTCAGGCTGCCTGGGTACCATCATGTCCACCTTGACAGCCCTC  
 ATCCTGAGTCAGGACAAGTCCGGCATCGCTGCAGGATTTACGGGTACAATGGGGTGTGGTGGGGCTGC  
 TGATGGCCGTGTTCTCAGACAAAGGTGACTACTACTGGTGGCTGTTGCTACCCGTCATCATGTCCAT  
 GTCTTGCCCCATCCTCTCCAGTGCCTGGGTACCATCTCAGCAAGTGGGACCTCCCAGTCTTACACTG  
 CCCTTCAATCACTGTGACTTTGTACCTGGCAGCCACGGGCCACTACAACCTTTTCTTCCCCACAGCGC  
 TGCTGCAGCCTGCATCCGCATGCCAACATCACCTGGTCAAGGTCAGAGTCCAAGTGCCTTGTCTTTGAGAGC  
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 CTGTTTATATCCTCACCTCTCATTGCTTGCATGCAGCAATTGGATCCACCATGGGGATGCTAGCAGCAC  
 TCACTATTGCGACGCCCTTTGACTCCATCTACTTCCGGCCTGTGTGGCTTCAACAGCACCCCTCGCATGCAT  
 AGCGATAGGAGGCATGTTCTACGTATCACCTGGCAGACGCACCTCCTCGCCATCGCCTGCGCACTGTTT  
 GCTGCCTACCTGGGTGCTGCCCTGGTAACATGTTATCTGTGTTGGATTGCCGCCCTGCACTTGGCCCT  
 TCTGTCTCTCAGCTCTCACCTTCTGCTCCTGACGACCAATAACCCCGCCATCTACAAGCTCCCGCTCAG  
 CAAAGTCACTACCCAGAGGCCAACCAGCATCTACTACCTGTCCCAGGAGAGAAACAGAAGGCATCAATC  
 ATAACAAAGTATCAGGCCTACGATGTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC213567 representing NM\_007163  
 Red=Cloning site Green=Tags(s)

MSDPHSSPLLPEPLSSRYKLYEAFTSPSWPSTSPDTHPALPLEMPEEKDLRSSNEDSHIVKIEKLNERSKRKDDGVAHRDSAGQRCICLSKAVGYLTGDMKEYRIWLKDKHLALQFIDWVLRGTAQVMFVNNPLSGLIFIGLLIQNPWWITGGTGVVSTLTALALGQDRSAIASGLHGYNGMLVGLLMAAFSEKLDYYWLLFPVTFMTAMSCPVLSSALNSIFSKWDLPVFTLFPNIAVTLYLAATGHYNLFFPTTLVEPVSSVPNITWTEMLLLLQAIIPVGVGQYVYCDNPWTGGVFLVALFISSPLICLHAAIGSIVGLLAALSVATPFETIYTGLWSYCVLSCIAIGGMFYALTWQTHLLALICALFCAYMEAAISNIMSVVGVPPGTWAFCLATIIIFLLTTNNPAIFRLPLSKVTYPEANRIYYLTVKSGEEEKAPSGGGGHPPTAGPKVEEGSEAVLSKHRSVFHIEWSSIRRRSKVFGKGEHQERQNKDPFPYQYRKPTVELLDLDTMEESEIKVETNISKTWIRSSMAASGKRVSKALSYITGEMKECEGGLKDKSPVFQFFDWVLRGTSQVMFVNNPLSGILIIILGLFIQNPWWAISGCLGTIMSTLTALILSQDKSAIAAGFHGYNGVLVGLLMAVFSKGDYWWLLPVIIMSMSCPILSSALGTIFSKWDLPVFTLFPNITVTLYLAATGHYNLFFPTALLQPASAMPNITWSEVQVPLLRIPVIGVQYVYCDNPWTGGIFLIA LFISSPLICLHAAIGSTMGLAALTIATPFDSIYFGLCGFNSTLACIAIGGMFYVITWQTHLLAIACALFAAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPAIYKLPVSKVTYPEANRIYYLSQERNRRASITKYQAYDVS

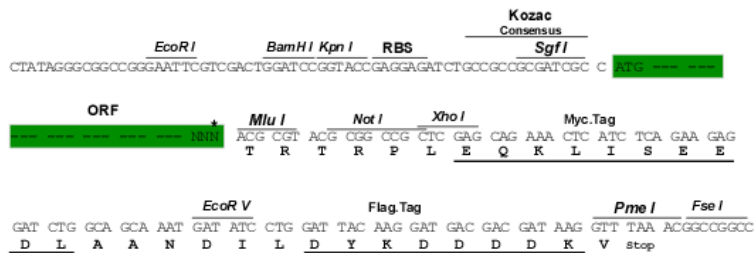
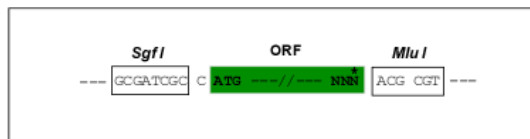
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8008\\_f04.zip](https://cdn.origene.com/chromatograms/mk8008_f04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



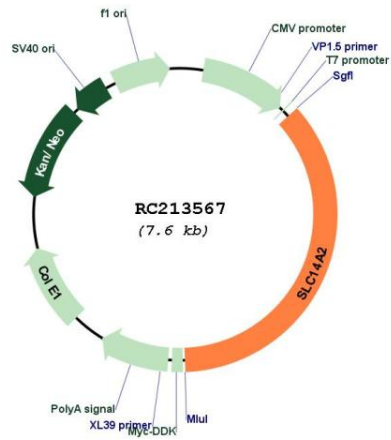
\* The last codon before the Stop codon of the ORF

ACCN: NM\_007163

ORF Size: 2760 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_007163.2</a> , <a href="#">NP_009094.2</a>
<b>RefSeq Size:</b>	4166 bp
<b>RefSeq ORF:</b>	2763 bp
<b>Locus ID:</b>	8170
<b>UniProt ID:</b>	<a href="#">Q15849</a>
<b>Cytogenetics:</b>	18q12.3
<b>Domains:</b>	UT
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	101 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC213567