

## Product datasheet for **RC235035**

### SLC14A2 (NM\_001242692) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC14A2 (NM_001242692) 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)



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ORF Nucleotide  
Sequence:

>RC235035 representing NM\_001242692  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGACCCCCACAGCAGTCCTCTCCTGCCAGAGCCACTTTCAGCAGATACAACTCTACGAGGCAG  
 AGTTTACCAGCCCGAGCTGGCCCTCGACATCCCGGATACCTACCAGCTCTGCCCTCCTGAAATGCC  
 TGAAGAAAAGGATCTCCGGTCTTCCAATGAAGACAGTCACATTGTGAAGATCGAAAAGCTCAATGAAAGG  
 AGTAAAAGGAAAGACGACGGGTGGCCATCGGGACTCAGCAGGCCAAAGGTGCATCTGCCTCTCCAAAG  
 CAGTGGGCTACCTCACGGGCGACATGAAGGAGTACAGGATCTGGCTGAAAGACAAGCACCTTGCCCTCCA  
 GTTCATAGACTGGGTCTGAGAGGGACCGCTCAGGTGATGTTTCATCAACAATCCTCTCAGCGGCCTCATC  
 ATCTTCATAGGGTCTGATCCAGAATCCCTGGTGACAATCACTGGGGGCTGGGACAGTGGTCTCGA  
 CCTAACAGCTCTCGCCTGGGCCAAGACAGGTCTGCCATTGCCCTCAGGACTCCATGGGTACAACGGGAT  
 GCTGGTGGGACTGCTGATGGCCGTGTTCTCGGAGAAGTTAGACTACTACTGGTGGCTTCTGTTTCCTGTG  
 ACCTTCACAGCCATGTCCCTGCCAGTCTTCTAGTGCCTTGAATTCATCTTCAGCAAGTGGGACCTCC  
 CGGTCTTCACTCTGCCCTCAACATTGCAGTCACTTGTACCTTGACGCCACAGGCCACTACAACCTCTT  
 CTTCCCCACAACACTGGTAGAGCCTGTGTCTTCACTGCCCCAATACACCTGGACAGAGATGGAAATGCC  
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 TGTTCTGGTGGCTCTGTTTCATCTCCTCGCCACTCATCTGCTTGCATGCAGCCATTGGCTCAATCGTGGG  
 GCTGCTAGCAGCCTGTCACTGGCCACACCCTTCGAGACCATCTACACAGGCCTCGGAGCTACAACCTGC  
 GTCCTCTCCTGCATCGCCATCGGAGGCATGTTCTATGCCCTCACCTGGCAGACTCACCTGTCGCCCTCA  
 TCTGTCCCTGTTCTGTGCATACATGGAAGCAGCCATCTCAACATCATGTCAGTGGTGGCGTGGCCACC  
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 AGACTCCCACTCAGCAAAGTCACTACCCCGAGGCCAACCAGCATCTACTACCTGACAGTGAAGAGCGGTG  
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 AAAGTGTGGAAAGGCGAACACCAGGAAAGACAAAACAAGACCCATTTCCCTATCGATACCGGAAGC  
 CCACAGTCGAGCTGCTTGTCTGGACACCATGGAGGAGAGCTCTGAGATAAAAGTGGAAACAACATTTT  
 CAAGACATCCTGGATTCCGAGTTCATGGCTGCCAGTGGGAAAAGGTGACGAAAGCCCTCAGCTACATC  
 ACAGGAGAGATGAAGGAGTGTGGAGAGGGACTTAAAGACAAGTCCCAGTGTCCAGTCTTTGACTGGG  
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 TTTCATCCAGAACCCTGGTGGGCGATCTCAGGCTGCCTGGGTACCATCATGTCCACCTTGACAGCCCTC  
 ATCCTGAGTCAGGACAAGTGGCCATCGCTGCAGGATTTACGGGTACAATGGGGTGGTGGGGCTGC  
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 GTCTTGCCCCATCCTCTCCAGTGCCTGGGTACCATCTCAGCAAGTGGGACCTCCCAGTCTTACACTG  
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 TGCTGCAGCCTGCATCCGCATGCCAACATCACCTGGTCAAGGTCAGAGTCCAAGTGCCTTGTCTTGGAGC  
 CATCCCCGTTGGAATTGGCCAAGTGTACGGCTGTGATAACCCCTGGACTGGAGGCATCTTCCCTCATAGT  
 CTGTTTATATCCTCACCTCTCATTGCTTGCATGCAGCAATTGGATCCACCATGGGGATGCTAGCAGCAC  
 TCACTATTGCGACGCCCTTTGACTCCATCTACTTGGCCCTGTGTGGCTTCAACAGCACCCCTCGCATGCAT  
 AGCGATAGGAGGCATGTTCTACGTATCACCTGGCAGACGCACCTCCTCGCCATCGCCTGCGCACTGTTT  
 GCTGCCTACCTGGGTGCTGCCCTGGTAACATGTTATCTGTGTTGGATTGCCGCCCTGCACTTGGCCCT  
 TCTGTCTCTCAGCTCTCACCTTCTGCTCCTGACGACCAATAACCCCGCCATCTACAAGCTCCCGCTCAG  
 CAAAGTCACTACCCAGAGGCCAACCAGCATCTACTACCTGTCCCAGGAGAGAAACAGAAGGCATCAATC  
 ATAACAAAGTATCAGGCCTACGATGTCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >RC235035 representing NM\_001242692  
 Red=Cloning site Green=Tags(s)

MSDPHSSPLLPEPLSSRYKLYEAFTSPSWPSTSPDTHPALPLEMPEEKDLRSSNEDSHIVKIEKLNER  
 SKRKDDGVAHRDSAGQRCICLSKAVGYLTGDMKEYRIWLKDKHLALQFIDVLRGTAQVMFINNPLSGLI  
 IFIGLLIQNPWWITGGTGVVSTLTALALGQDRSAIASGLHGYNGMLVGLLMAVFSEKLDYYWLLFPV  
 TFTAMSCPVLSSALNSIFSKWDLPVFTLFPNIAVTLYLAATGHYNLFFPTTLVEPVSSVPNITWTEEMP  
 LLLQAIPVGVGQVYGCDNPWTGGVFLVALFISSPLICLHAAIGSIVGLLAALSVATPFETIYTGLWSYNC  
 VLSCIAIGGMFYALTWQTHLLALICALFCAYMEAASINIMSVVGVPPGTWAFCLATIIIFLLTTNNPAIF  
 RLPLSKVTYPEANRIYYLTVKSGEEEEKAPSGGGGHPPTAGPKVEEGSEAVLSKHRSVFHIEWSSIRRRS  
 KVFGEKGEQERQNKDPFPYRKRPTVELLDLDTMEESEIKVETNISKTWIRSSMAASGKRVSALSYI  
 TGEMKECEGELKDKSPVQFFDQVLRGTSQVMFVNNPLSGILIIILGLFIQNPWWAISGCLGTIMSTLTAL  
 ILSQDKSAIAAGFHGYNGVLVGLLMAVFSKGDYYWLLLPVIIMSMSCPILSSALGTIFSKWDLPVFTL  
 PFNITVTLYLAATGHYNLFFPTLLQPASAMPNITWSEVQVPLLRIPVIGQVYGCDNPWTGGIFLIA  
 LFISSPLICLHAAIGSTMGLAALTIATPFDSIYFGLCGFNSTLACIAIGGMFYVITWQTHLLAIACALF  
 AAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPAIYKLPVSKVTYPEANRIYYLSQERNRRASI  
 ITKYQAYDVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

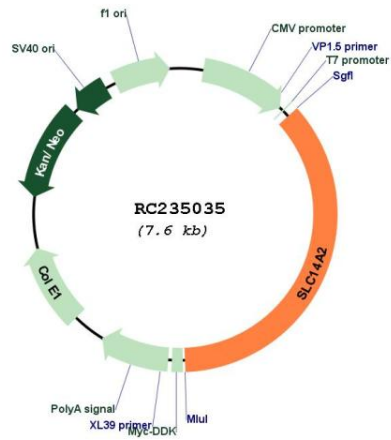


**ACCN:** NM\_001242692

**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_001242692.2</a>
<b>RefSeq Size:</b>	3685 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>Protein Families:</b>	Transmembrane
<b>MW:</b>	101.7 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 RC235035