

## Product datasheet for **RG235035**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC14A2 (NM_001242692) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC14A2
Synonyms:	hUT-A6; HUT2; UT-A2; UT2; UTA; UTR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG235035 representing NM\_001242692  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGACCCCCACAGCAGTCCTCTCCTGCCAGAGCCACTTTCAGCAGATACAACTCTACGAGGCAG  
 AGTTTACCAGCCGAGCTGGCCCTCGACATCCCGGATACTCACCCAGCTCTGCCCTCCTGGAAATGCC  
 TGAAGAAAAGGATCTCCGGTCTTCCAATGAAGACAGTCACATTGTGAAGATCGAAAAGCTCAATGAAAGG  
 AGTAAAAGGAAAGACGACGGGGTGGCCATCGGGACTCAGCAGGCCAAAGGTGCATCTGCCTCTCCAAAG  
 CAGTGGGCTACCTCACGGGCGACATGAAGGAGTACAGGATCTGGCTGAAAGACAAGCACCTTGCCCTCCA  
 GTTCATAGACTGGGTCTGAGAGGGACCGCTCAGGTGATGTTTCATCAACAATCCTCTCAGCGGCCTCATC  
 ATCTTCATAGGGTCTGATCCAGAATCCCTGGTGGACAATCACTGGGGGCTGGGACAGTGGTCTCGA  
 CCTAACAGCTCTCGCCTGGGCCAAGACAGGTCTGCCATTGCCCTCAGGACTCCATGGGTACAACGGGAT  
 GCTGGTGGGACTGCTGATGGCCGTGTTCTCGGAGAAGTTAGACTACTACTGGTGGCTTCTGTTTCCTGTG  
 ACCTTCACAGCCATGTCCCTGCCAGTCTTCTAGTGCCTTGAATTCATCTTCAGCAAGTGGGACCTCC  
 CGGTCTTCACTCTGCCCTCAACATTGCAGTCACCTTGTACCTTGACGCCACAGGCCACTACAACCTCTT  
 CTTCCCCACAACACTGGTAGAGCCTGTGTCTTCACTGCCCCAATACACCTGGACAGAGATGGAAATGCC  
 CTGCTGTTACAAGCCATCCCTGTTGGGGTGGCCAGGTGTATGGCTGTGACAATCCCTGGACAGGCGGGG  
 TGTTCTGGTGGCTCTGTTTCATCTCCTCGCCACTCATCTGCTTGCATGCAGCCATTGGCTCAATCGTGGG  
 GCTGCTAGCAGCCCTGTCACTGGCCACACCCTTCGAGACCATCTACACAGGCCTCGGAGCTACAACCTGC  
 GTCCTCTCCTGCATCGCCATCGGAGGCATGTTCTATGCCCTCACCTGGCAGACTCACCTGCTGCCCTCA  
 TCTGTGCCCTGTTCTGTGCATACATGGAAGCAGCCATCTCAACATCATGTCAGTGGTGGCGTGGCCACC  
 AGGCACCTGGCCCTTCTGCCTTGGCCACCATCATCTTCTGCTCCTGACGACAAACAACCCAGCCATCTTC  
 AGACTCCCACTCAGCAAAGTCACTACCCGAGGCCAACCAGCATCTACTACCTGACAGTGAAGAGCGGTG  
 AAGAAGAGAAGGCCCCAGCGGAGGCGGTGGGAGCATCCACCCACAGCAGGCCAAAGGTGGAGGAGGG  
 CTCGGAGGCTGTGCTCTCAAGCACAGGAGTGTATTTACATCGAGTGGTTCATCCATTGGAGGAGGAGC  
 AAAGTGTGGAAAGGCGAACACCAGGAAAGACAAAACAAGACCCATTTCCCTATCGATACCGGAAGC  
 CCACAGTCGAGCTGCTTGTGACACCATGGAGGAGAGCTCTGAGATAAAAGTGGAAACAACATTTTC  
 CAAGACATCCTGGATTCCGAGTTCATGGCTGCCAGTGGGAAAAGGTCAGCAAAGCCCTCAGCTACATC  
 ACAGGAGAGATGAAGGAGTGTGGAGAGGGACTTAAAGACAAGTCCCAGTGTCCAGTCTTTGACTGGG  
 TCCTCCGAGGCACATCTCAAGTATGTTTGTGAACAACCCCTCAGCGGCATCCTCATCCTCGGCCCT  
 TTTCATCCAGAACCCCTGGTGGGCGATCTCAGGCTGCCTGGGTACCATCATGTCCACCTTGACAGCCCTC  
 ATCCTGAGTCAGGACAAGTGGCCATCGCTGCAGGATTTACGGGTACAATGGGGTGGTGGGGCTGC  
 TGATGGCCGTGTTCTCAGACAAAGGTGACTACTACTGGTGGCTGTTGCTACCCGTCATCATGTCCAT  
 GTCTTGCCCCATCCTCTCCAGTGCCTGGGTACCATCTCAGCAAGTGGGACCTCCCAGTCTTACACTG  
 CCCTTCAATCACTGTGACTTTGTACCTGGCAGCCACGGGCCACTACAACCTTTTCTCCCCACAACGC  
 TGCTGCAGCCTGCATCCGCATGCCAACATCACCTGGTCAAGGTCAGAGTCCAAGTGCCTTGTCTTTGAGAGC  
 CATCCCCGTTGGAATTGGCCAAGTGTACGGCTGTGATAACCCCTGGACTGGAGGCATCTTCCCTCATAGCT  
 CTGTTTCATATCCTCACCTCTCATTGCTTGCATGCAGCAATTGGATCCACCATGGGGATGCTAGCAGCAC  
 TCACTATTGCGACGCCCTTTGACTCCATCTACTTGGCCCTGTGTGGCTTCAACAGCACCCCTCGCATGCAT  
 AGCGATAGGAGGCATGTTCTACGTATCACCTGGCAGACGCACCTCCTCGCCATCGCCTGCGCACTGTTT  
 GCTGCCTACCTGGGTGCTGCCCTGGTAACATGTTATCTGTGTTGGATTGCCGCCCTGCACTTGGCCCT  
 TCTGTCTCTCAGCTCTCACCTTCTGCTCCTGACGACCAATAACCCCGCCATCTACAAGCTCCCGCTCAG  
 CAAAGTCACTACCCAGAGGCCAACCAGCATCTACTACCTGTCCCAGGAGAGAAACAGAAGGCATCAATC  
 ATAACAAAGTATCAGGCCTACGATGTCTCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG235035 representing NM\_001242692  
 Red=Cloning site Green=Tags(s)

MSDPHSSPLLPEPLSSRYKLYEAFTSPSWPSTSPDTHPALPLEMPEEKDLRSSNEDSHIVKIEKLNER  
 SKRKDDGVAHRDSAGQRCICLSKAVGYLTGDMKEYRIWLKDKHLALQFIDWVLRGTAQVMFINNPLSGLI  
 IFIGLLIQNPWWITGGTGVVSTLTALALGQDRSAIASGLHGYNGMLVGLLMAVFSEKLDYYWLLFPV  
 TFTAMSCPVLSSALNSIFSKWDLPVFTLFPNIAVTLYLAATGHYNLFFPTTLVEPVSSVPNITWTEEMP  
 LLLQAIIPVGVGQVYGCDNPWTGGVFLVALFISSPLICLHAAIGSIVGLLAALSVATPFETIYTGLWSYNC  
 VLSCIAIGGMFYALTWQTHLLALICALFCAYMEAASINIMSVVGVPPGTWAFCLATIIIFLLLTNNPAIF  
 RLPLSKVTYPEANRIYYLTVKSGEEEEKAPSGGGGHPPTAGPKVEEGSEAVLSKHRSVFHIEWSSIRRRS  
 KVFSGKEHQERQNKDPFPYRKRKPTVELLDLDTMEESEIKVETNISKTWIRSSMAASGKRVSKALSYI  
 TGEMKECGEGLKDKSPVQFFDQWVLRGTSQVMFVNNPLSGILIIILGLFIQNPWWAISGCLGTIMSTLTAL  
 ILSQDKSAIAAGFHGYNGVLVGLLMAVFSKGDYWWLLLPVIIMSMSCPISSALGTIFSKWDLPVFTL  
 PFNITVTLYLAATGHYNLFFPTLLQPASAMPNITWSEVQVPLLRIPVIGIQVYGCDNPWTGGIFLIA  
 LFISSPLICLHAAIGSTMGLAALTIATPFDSIYFGLCGFNSTLACIAIGGMFYVITWQTHLLAIACALF  
 AAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPAIYKPLSKVTYPEANRIYYLSQERNRRASI  
 ITKYQAYDVS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

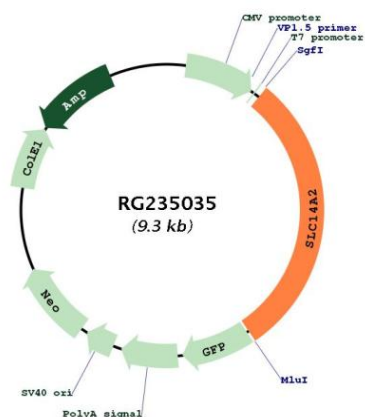
Cloning Scheme:



ACCN: NM\_001242692

<b>ORF Size:</b>	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>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 RG235035