

## Product datasheet for **SC108293**

### SLC15A2 (NM\_021082) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC15A2 (NM_021082) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC15A2
Synonyms:	PEPT2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_021082, the custom clone sequence may differ by one or more nucleotides

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ATGAATCCTTTCCAGAAAAATGAGTCCAAGGAACTCTTTTTTCCACCTGTCTCCATTGAAGAGGTACCAC
CTCGACCACCTAGCCCTCCAAAGAAGCCATCTCCGACAATCTGTGGCTCCAACATCCACTGAGCATTGC
CTTCATTGTGGTGAATGAATTCTGCGAGCGCTTTTCTATTATGGAATGAAAGCTGTGCTGATCCTGTAT
TTCTGTATTTCTGCACTGGAATGAAGATACCTCCACATCTATATACCATGCCTTCAGCAGCCTCTGTT
ATTTTACTCCCATCCTGGGAGCAGCCATTGCTGACTCGTGGTTGGGAAAATTCAAGACAATCATCTATCT
CTCCTTGGTGTATGTGCTTGGCCATGTGATCAAGTCTTGGTGCCTTACCAATACTGGGAGGACAAGTG
GTACACACAGTCTATCATTGATCGGCCTGAGTCTAATAGCTTTGGGACAGGAGGCATCAAACCTGTG
TGGCAGCTTTTGGTGGAGACCAGTTTGAAGAAAAACATGCAGAGGAACGGACTAGATACTTCTCAGTCTT
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TGTTTTGCAATGGGAAGCAAAATATAACAATAAACCCACCCCTGAAGGAAACATAGTGGCTCAAGTTTTCAA
ATGTATCTGGTTTGTCTATTTCCAATCGTTTCAAGAACCGTTCTGGAGACATTCCAAGGCGACAGCACTGG
CTAGACTGGGCGGCTGAGAAAATATCCAAAGCAGCTCATTATGGATGTAAGGCACTGACCAGGGTACTAT
TCCTTTATATCCCATTGCCCATGTTCTGGGCTCTTTTGGATCAGCAGGGTTCACGATGGACTTTGCAAGC
CATCAGGATGAATAGGAATTTGGGGTTTTTGTGCTTCAGCCGGACCAGATGCAGGTTCTAAATCCCCTT
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TCTCATCACTTAGGAAAATGGCTGTTGGTATGATCCTAGCATGCCTGGCATTTCAGTTCGCGCAGCTGT
AGAGATAAAAAATAAATGAAATGGCCCCAGCCAGCCAGGTCGCCAGGAGGTTTTCTACAAGTCTTGAAT
CTGGCAGATGATGAGGTGAAGGTGACAGTGGTGGGAAATGAAAAACAATTCTCTGTTGATAGAGTCCATCA
AATCCTTTTCAGAAAACACCACACTATTCCAAACTGCACCTGAAAACAAAAGCCAGGATTTTCACTTCCA
CCTGAAATATCACAATTTGTCTCTCTACTGAGCATTCTGTGCAGGAGAAGAAGTGGTACAGTCTTGTC
ATTCGTGAAGATGGGAACAGTATCTCCAGCATGATGGTAAAGGATACAGAAAGCAGAACAACCAATGGGA
TGACAACCGTGAGGTTTGTAACTTTGCATAAAGATGTCAACATCTCCCTGAGTACAGATACCTCTCT
CAATGTTGGTGAAGACTATGGTGTGTCTGCTTATAGAAGTGTGCAAGAGGAGAATACCCTGCAGTGCAC
TGTAGAACAGAAGATAAGAATTTTCTCTGAATTTGGGTCTTCTAGACTTTGGTGCAGCATATCTGTTG
TTATTACTAATAACACCAATCAGGGTCTCAGGCCTGGAAGATTGAAGACATTCCAGCCAACAAAATGTC
CATTGCGTGGCAGCTACCACAATATGCCCTGGTTACAGCTGGGGAGGTCATGTTCTGTGCACAGGCTT
GAGTTTTCTTATTCTCAGGCTCCCTCTAGCATGAAATCTGTGCTCCAGGCAGCTTGGCTATTGACAATTG
CAGTTGGGAATATCATCGTGCTTGTGTGGCACAGTTCAGTGGCCTGGTACAGTGGGCCGAATTCATTTT
GTTTTCTGCCTCCTGCTGGTGTATGCTGCTGATCTTCTCCATCATGGGCTACTACTATGTTCTGTAAAG
ACAGAGGATATGCGGGTCCAGCAGATAAGCACATTCTCACATCCAGGGGAACATGATCAAACCTAGAGA
CCAAGAAGACAAAACCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_021082 unedited  GGGCACGAATTGTATACACTCACTATAGGCGGCCGGAATTCGCACGAGCCTCGTGCCGA  ATTCGGCACGAGGGTAAGGAGCCAGCCATGAATCCTTTCCAGAAAAATGAGTCCAAGGAA  ACTCTTTTTTACCTGTCTCCATTGAAGAGGTACCACCTCGACCACCTAGCCCTCCAAAG  AAGCCATCTCCGACAATCTGTGGCTCCTCACTATCCACTGAGCATTGCCTTCATTGTGGTG  AATGAATTCTGCGAGCGCTTTTCTATTATGGAATGAAAGCTGTGCTGATCCTGTATTTTC  CTGTATTTCTGCACTGGAATGAAGATACCTCCACATCTATATACCATGCCTTCAGCAGC  CTCTGTTATTTTACTCCCATCTGGGAGCAGCCATTGCTGACTCGTGGTTGGAAAAATTC  AAGACAATCATCTATCTCTCCTTGGTGTATGTGCTTGGCCATGTGATCAAGTCCTTGGGT  GCCTTACCAATACTGGGAGGACAAGTGGTACACACAGTCTATCATTGATCGGCCTGAGT  CTAATAGCTTTGGGGACAGGAGGCATCAAACCCTGTGTGGCAGCTTTTGGTGGAGACCAG  TTTGAAGAAAAACATGCAGAGGAACGGACTAGATACTTCTCAGTCTTCTACCTGTCCATC  AATGCAGGGAGCTTGATTTCTACATTTATCACACCCATGCTGAGAGGAGATGTGCAATGT  TTTGGAGAAGACTGCTATGCATTGGCTTTTGGAGTTCCAGACTGCTCATGGTAATTGCC  CTTGTTGTGTTTGAATGGGAAGCAAAATACATAAACCACCCCTGAAAGAAACATAG  CCGCCTCAAGTTTTCAAACGTACCTGTCTTGTCTATTTCCAATCGTTTCAAGAACCCTTCT  GGAGAATTTCCAAAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021082 unedited  CTGTGGTTTTGACATAAATGTGCATGTCTGCTTGCCTACCATCTATATTGACAAATTTAC  TAAAGTCATATCAAACCTATAGAGCTGACAAGCCAGGCCCTGGCTGGACCAGATCACATC  ATACATAACCAATTCTTGAGGCCCTGTGAATATCATAATTACATTGCTTATAAAAAAAAA  AACTCGAAAACACCATCTTCTTTGTATTCTGGAATTTTGTCTCTAAATCACACCTCAAA  AATTAGGGGCATCAGTCCTAAATGGCACCCACCTCTAAAGGAATTTCTATAAATTTCCCAT  ACCCACATAGAATGATTTCCATTATACGCGTCCATTCTTATCGGCATTCCGATACTCCAC  TCATCTTACCCTTACTGCTCACCCCTTACGACCTATTTGATCGCCCGCAACCCTTCC  CCCTCTTCTTCTCTTCAATCATGACCTGCGATAATCCTTCTCCCATTTCTCCCTTT  TCCATCCCCTCTCCATATTACCCCTCCCGTCTCCTACTTTTCTCTCTTCCACTCCCC  TATTTATCTCCCCTCCCCTACTTTCCCCTCCTTTCCCTCCGTCTTCTCCCTGACTTTAT  CCCTCCTTCTTCCCCTCTTATCCCCTCCCCCTTTTCCCCCATCCTTTTCCCCTTTCC  TCTTTCTTTCCACACCGTTACCCCGTCTTCTCCGCTTTTATCGCTTTCCCGTCAT  CACCTCCCCTTCCCGTCCCGCTACGTCTTCTTTCCGTTTTTCTCTCCTCACGCGCCCGC  TCGTTCTCATGCTCCGCGCATCCCCCATCACCCCTTCTCTCCCTCACCCCTTCTT  CTTTCCGCGTTCCTCCTCTCCCTTTATCCCTCAATCTCACTAACTCGCGTGTATTGC  ATGCCCTGCNTATTCGTCGCGTGTCCCGTGTCCCGAGATCGTTGCCTCCATATTCTCGTCA  CATTCCGCGGTTTCTTANTCATCNATTTGATCTCTCTCTCCCGCCCCACCACACAC  CCACGTTGTTCACTCTCGCTTCTTTT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021082
<b>Insert Size:</b>	2930 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_021082.2](#), [NP\\_066568.2](#)

**RefSeq Size:** 2846 bp

**RefSeq ORF:** 2190 bp

**Locus ID:** 6565

**UniProt ID:** [Q16348](#)

**Cytogenetics:** 3q13.33

**Domains:** PTR2

**Protein Families:** Transmembrane

**Gene Summary:** The mammalian kidney expresses a proton-coupled peptide transporter that is responsible for the absorption of small peptides, as well as beta-lactam antibiotics and other peptide-like drugs, from the tubular filtrate. This transporter, SLC15A2, belongs to the same gene family as SLC15A1 (MIM 600544), the proton-coupled peptide transporter found in the small intestine (Liu et al, 1995 [PubMed 7756356]).[supplied by OMIM, Feb 2011]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.