

## Product datasheet for **SC327179**

### SLC15A2 (NM\_001145998) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC15A2 (NM_001145998) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC15A2
Synonyms:	PEPT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

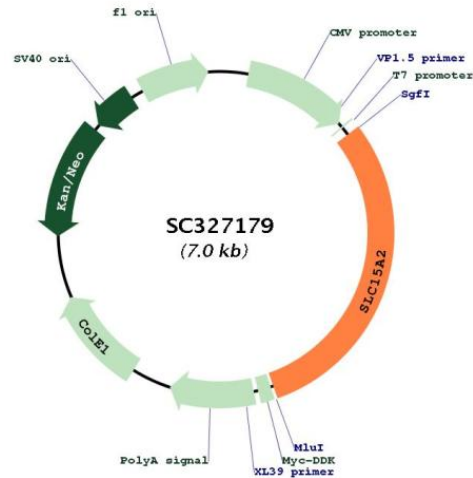


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Fully Sequenced ORF: >SC327179 representing NM\_001145998.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATCCTTTCCAGAAAAATGAGTCCAAGGAAACTCTTTTTTTCACCTGTCTCCATTGAAGAGGTACCA
CCTCGACCACCTAGCCCTCAAAGAAGCCATCTCCGACAATCTGTGGCTCCAACATCCACTGAGCATT
GCCTTCATTGTGGTGAATGAATTCGCGAGCGCTTTTCTATTATGGAATGAAAGCTGTGCTGATCCTG
TATTTCTGTATTTCTGCACTGGAATGAAGATACCTCCACATCTATATACCATGCCTTCAGCAGCCTC
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TGTAGAACAGAAGATAAGAATTTTCTCTGAATTTGGGTCTTCTAGACTTTGGTGCAGCATATCTGTTT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001145998

**Insert Size:** 2097 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

**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\\_001145998.1](#)

**RefSeq Size:** 5430 bp

**RefSeq ORF:** 2097 bp

**Locus ID:** 6565

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

**Cytogenetics:** 3q13.33

**Protein Families:** Transmembrane

**MW:** 78.5 kDa

**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 (2) lacks an alternate in-frame exon, compared to variant 1. This results in a shorter protein (isoform b), compared to 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.