

Product datasheet for **SC125769**

SLC5A11 (BC057780) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A11 (BC057780) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A11
Synonyms:	homolog of rabbit KST1; KST1; putative sodium-coupled cotransporter RKST1; RKST1; SGLT6; SMIT2; sodium/myo-inositol cotransporter 2; solute carrier family 5 (sodium/glucose cotransporter), member 11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC057780 edited
GGGCACAGTGGAAAGACTGGCTGAGGCTGGAGTTTGGAGTTTGACCCGCTTGGAGGCTCTC
TCAGCAGCGGGCATATAGGAGGAAGGGTCACTGCTGTCTCCGGAAGCTCTTGGCTGCAAA
GAGAGAGGATCCCGGGTATCTCCCTCCTTACAACCACCGCCACCTCTAGTGCCTTAGAA
GCCACTGACAGCCCCGGGGCAGGTGAGCCCTGCATCTGGAATAAGTCCACAGTGAAGAC
CAAAAGAGACACAGTAAAGGCTACTTCCTGGCTGGAGGGGACATGGTGTGGTGGCCAGT
GGGTGCATCCTTGTGGCCAGCAATGTTGGAAGTGGACATTTTCATTGGCCTGGCAGGGTC
AGGTGCTGCTACGGGCATTTCTGTATCAGCTTATGAACTTAATGGCTTGTCTTCTGTGCT
GATGTTGGCCTGGATCTTCTACCCATCTACATTGCTGGTCAGGTCACCACGATGCCAGA
ATACCTACGGAAGCGCTTCGGTGGCATCAGAATCCCCATCATCCTGGCTGTACTTACCT
ATTTATCTACATCTTACCAAGATCTCGGTAGACATGTATGCAGGTGCCATCTTCATCCA
GCAGTCTTTGCACCTGGATCTGTACCTGGCCATAGTTGGGCTACTGGCCACTACTGCTGT
ATACACGGTTGCTGGTGGCCTGGCTGCTGTGATCTACACGGATGCCCTGCAGACGCTGAT
CATGCTTATAGGAGCGCTCACCTTGATGGGCTACAGTTTCGCCCGGTTGGTGGGATGGA
AGGACTGAAGGAGAAGTACTTCTTGGCCCTGGCTAGCAACCGGAGTGAGAACAGCAGCTG
CGGGCTGCCCCGGGAAGATGCCTTCCATATTTCCGAGATCCGCTGACATCTGATCTCCC
GTGGCCGGGGTCTATTTGGAATGTCCATCCCATCCCTCTGGTACTGGTGCACGGATCA
GGTGATTGTCCAGCGACTCTGGCTGCCAAGAACCTGTCCCATGCCAAAGGAGGTGCTCT
GATGGCTGCATACCTGAAGGTGCTGCCCTCTTCATAATGGTGTCCCTGGGATGGTCAG
CCGCATCTCTTCCAGATCAAGTGGCCTGTGCAGATCCAGAGATCTGCCAGAAGATCTG
CAGCAACCCCTCAGGCTGTTCCGACATTGCGTATCCCAAACCTCGTCTGGAACCTCTGCC
CACAGGGCTCCGTGGGCTGATGATGGCTGTGATGGTGGCGGCTCTCATGTCTCCCTCAC
CTCCATCTTTAACAGTGCCAGCACCATCTTACCATGGACCTCTGGAATCACCTCCGGCC
TCGGGCATCTGAGAAGGAGCTCATGATTGTGGCAGGGTGTGGTGTGCTGCTGCTGGTCT
GGTCTCCATCCTCTGGATCCCTGTGGTCCAGGCCAGCCAGGGCGGCCAGCTCTTCATCTA
TATCCGGTCCATCAGCTCCTACCTGCAGCCGCTGTGGCGGTGGTCTTCATCATGGGATG
TTTCTGGAAGAGGACCAATGAAAAGGGTGCCTTCTGGGCCTGATCTCGGGCCTGCTCCT
GGGCTTGGTTAGGCTGGTCTGGACTTTATTTACGTGCAGCCTCGATGCGACCAGCCAGA
TGAGCGCCCGGTCTGGTGAAGAGCATTCACTACCTCTACTTCTCCATGATCCTGTCCAC
GGTCACCCTCATCACTGTCTCCACCGTGAGCTGGTTCACAGAGCCACCCTCCAAGGAGAT
GGTCAGCCACCTGACCTGGTTTACTCGTCACGACCCCGTGGTCCAGAAGGAACAAGCACC
ACCAGCAGCTCCCTTGTCTTACCCTCTCTCAGAACGGGATGCCAGAGGCCAGCAGCAG
CAGCAGCGTCCAGTTCGAGATGGTTCAAGAAAACACGTCTAAAACCCACAGCTGTGACAT
GACCCCAAAGCAGTCAAAGTGGTGAAGGCCATCCTGTGGCTCTGTGGAATACAGGAGAA
GGGCAAGGAAGAGCTCCCGGCCAGAGCAGAAGCCATCATAGTTTCCCTGGGAAGAAAACCC
CTTGGTGAAGACCCTCTGGACGTCAACCTCATTTTCTGCGTGAGCTGCGCCATCTTTAT
CTGGGGCTATTTTGTAGTGTGGGGTGAACCCAGGGTCCAACTCTGTTTCTCTTCAG
TGCTCCATTTTTTAATGAAAGAAAAAATAATAAAGCTTTTGTTTACCAAAAAAAAAAAAA
AAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC057780 unedited NGTAGCGGTTTCAGGATTTGTAATACGACTCACTATAGGCGGCCGATAACTTCGTATAGC ATACATTATACGAAGTTATGGCTCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCG GGGGCACAGTGAAGACTGGCTGAGGCTGGAGTTTGGAGTTTGACCCGCTTGGAGGCTCT CTCAGCAGCGGCATATAGGAGGAAGGGTCACTGCTGTCTCCGGAAGCTCTTGGCTGCAA AGAGAGAGGATCCCGGTATCTCCCTCCTTACAACCACCGCCACCTCCTAGTGCCTTAGA AGCCACTGACAGCCCCGGGGCAGGTGAGCCCTGCATCTGGAATAAGTCCACAGTGAAGA CCAAAGAGACACAGTGAAAGGCTACTTCTGGCTGGAGGGGACATGGTGTGGTGGCCAG TGGGTGCATCCTTGTGGCCAGCAATGTTGGAAGTGGACATTTTCATTGGCCTGGCAGGGT CAGGTGCTGTACGGGCATTTCTGTATCAGCTTATGAACTTAATGGCTTGATTTCTGTGC TGATGTTGGCCTGGATCTTCTACCCATCTACATTGCTGGTCAGGTACCACGATGCGCG ATTACCTACGGAAGCGCTTCGGGGGCATCAAAATCCCCGATATCCGGGCTGGACTCTACG TATTTATCTACATCTTGCCCAAGATCTCGGTAGACATGTATGGCGGGTGCATTTTCAAC CAAAAATTTTGGCACCTGGATCCGGACACTGGACACAGAGTGGAGCTACTGGCAATATA TGGTGGTTTCAACGGCTCCCGGGTGGCAATGCCGGCTGGGATCCACGGGGTGGCCAGG AGAGACTTTACGCCCAATGAAACCCACCTTTTTAGGGCATCAATGTAGGCCAGGG
Restriction Sites:	Please inquire
ACCN:	BC057780
Insert Size:	2200 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:	<ol style="list-style-type: none"> 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:	<u>BC057780.1</u> , <u>AAH57780.1</u>
RefSeq Size:	2224 bp
Locus ID:	115584
Cytogenetics:	16p12.1

Gene Summary:

Cotransporters, such as SLC5A11, represent a major class of proteins that make use of ion gradients to drive active transport for the cellular accumulation of nutrients, neurotransmitters, osmolytes, and ions Roll et al. (2002) [PubMed 12039040]. [supplied by OMIM, Mar 2008]