

Product datasheet for **SC126425**

SLC5A12 (NM_178498) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A12 (NM_178498) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A12
Synonyms:	SMCT2
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 NM_178498 edited
CTTTAGGAGAGGAGCAGACAGCTCTTAGCTAGGGTCAGATTTCAAATTCTCATCTCTTGG
TGCCAATACCACCACCAGATTCTTCTTTGAAGTCAACTTTTGAGATCTTCACTAAGTACA
CGTTGGTGTCTGAAGATTCACACGAGTGCCTCTGGTAATCATTTTCTTCAGGGAATCACA
GTCTCTCCTCTCAGCAAAGCATCCACTGTACTGAACTTTGCTTTTGAAACATCTTCTTC
CTGAGACCTCGTTGAAAGAAACTCTCTGGTGTCACTTTCCAATATGGAGGTGAAGAAC
TTTGACGTTTGGGATTATGTTGATTTGCAGCCCTTTTTTCATTTCTCTGGAATTGGG
GTGTTCTTTGCCATTAAGGAGAGAAAAAGGCAACTTCCCGAGAGTTCTGGTTGGGGGA
AGGCAAATGAGCTTTGGCCCTGTCGGCTTGTCTCTGACAGCCAGTTCATGTCAGCTGTC
ACGGTCTGGGGACCCCTTCTGAAGTCTACCGCTTTGGGGCATCCTTCTAGTCTTCTTC
ATTGCTTACCTATTTGTCATCCTCTTAACATCAGAGCTTTTCTCCCTGTGTTCTACAGA
TCTGGTATCACCAGCACTTATGAGTACTTACAACACGATTCAACAAACCAGTTCGCTAT
GCTGCCACAGTCACTACATTGTACAGACGATTCTCTACACAGGAGTGGTGGTATGCT
CCTGCCCTGGCACTCAATCAAGTACTGGGTTTGATCTCTGGGGCTCTGTGTTTGAACA
GGAATTGTTTGCACATTCTACTGTACCCTGGGAGGATTAAGAGCAGTGGTGTGGACAGAT
GCATTTAGATGGTTGTCATGATTGTGGCTTCTTAACGGTTCTATTCAAGGATCAACT
CATGCTGGGGATTCCACAATGTATTAGAGCAATCAACAATGGATCTCGACTACATATA
TTTGACTTTGATGTAGATCCTCTCAGGGCAGACACTTTTTGGACTATCACAGTGGGAGGA
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TGCAAAACAGAAAAGCATGCTAAGCTTGCCTTGTATTTAACTTGGCTGGGCTCTGGATC
ATTCTGGTGTGTGCTGTCTTCTCTGGCTTAATCATGTACTCTCACTTTAAAGACTGTGAC
CCTTGGACTTCTGGCATCATCTCAGCACCAGACCAGCTGATGCCGACTTTGTGATGGAG
ATATTTGCCACAATGCCAGGACTGCCAGGACTTTTTGTGGCTTGTGCCTTCAGTGGAACT
CTAGACACCGTGGCTTCCAGCATCAATGCCTTGGCAACAGTGACCTTTGAGGATTTTGTG
AAGAGCTGTTTTCTCATCTCTCCGACAAGCTGAGCACCTGGATCAGTAAAGGCTTATGT
AGGTACAGCTGGTGGACTTTCTATTCCATATCATGAAATGTACATGTGGTAGATGTCAA
ATCCTGCATGTGCTATTCAGGACACACTTATAAACACAAATGCACTGTGAGATATGTGAA
GAATCCCACACATAGATTCTTACACTTCCAAAGATCCAGCAGGGTATCAGGAAAGAATGA
CTAGCTAGTTTACCTTAACTGCCTTTATTTTCAGATACTTCTATACTTACCCTACACT
CTAGACGAGGCTTATCCAACCCACGGCCTGTGGCCGCATGCGGCCAGGATGGCTTTGA
ATGCAGCCCAACACAAATTCGTAACCTTTCTTAAACATTTCTGGAATTTTTTTGTAATTT
TTTAAATCTTATCAGCTATCATTAGTGTTGTGTATTTTATGTGTACTCCAAGGCAACTC
TTCTTTCAACGTGGCCAGGGAGGCCAAAAGATTGGACACCCCTGCAAACTAATCACAT
CAATCTCTCTTGATTACACTGTGTGATGGTCATATTAGTCTCTCTACATGGGAAGATGTT
GTGCTTACTATGGCCAGTCACTTTGACAAAGAAAAGCCAAATTTCTTTCTAAAGAATTGT
TCCTTATTACAAACTCCCAGTAACCCCTCAAAGAATAATTGCCCTTGGCTTAATCATG
CAATTGCATATTATGTTTATACTCACTTACGACTTATCAGAGATAATTGCAGTTTACACA
AGGTTTACTTTTTAAAGTATAAACAAATATGTATTTACTTACTAATAGAAAATATAGGT
AATTTGGGGAAATTTATGTACATTGTTAAATAAAATTATATCTATCTAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_178498 unedited NNGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATCANATCTGGTACCGGT CCGGAATCCC GGATCTTTAGGAGAGGAGCAGACAGCTCTTAGCTAGGGTCAGATTTCA AATTCTCATCTCTGGTGCCAATACCACCACAGATTCTCTTTGAAGTCAACTTTTGAG ATCTTCACTAAGTACACGTTGGTGTCTGAAGATTCACACGAGTGCCTCTGGTAATCATT TCTTCAGGGAATCACAGTCTCTCCTCAGCAAAGCATCCACTGTACTGAACTTTGCTTT TGGAAACATCTTCTTCTGAGACCTCGTTGAAAGAACTCTCTGGTGTGCATACTTTCCAA TATGGAGGTGAAGA AACTTTGCAGTTTGGGATTATGTTGATTTGCAGCCCTCTTTTCAT TTCTCTGGAATTGGGGTGTCTTTGCCATTAAGGAGAGAAAAAGGCAACTTCCCAGAGA GTTCTGGTTGGGGGAAGGCAAATGAGCTTTGGCCCTGTCGGCTTGTCTGACAGCCAG CTTCATGTCAGCTGTCACGGTCTGGGGACCCCTTCTGAAGTCTACCGCTTTGGGCATC CTTCTAGTCTTCTTATTGCTTACCTATTTGTCATCCTTAAACATCAGAGCTCTTTCT CCCTGTGTTCTACAGATCTGGTATCACCAGCACTATGAGTACTACAACACGATTCAA CAAACCAGTTCGCTATGCTGCCACAGTCATCTACATTGTACAGACGATTCTACACAGG AGTGGTGGTGTATGCTCCTGCCCTGGCACTCAATCAAGTACTGGGTTTGTCTCTGGGG CTCTGTGTTGCAACAGGAATTGTTGCACATTCTACTGTACCCTGGGAGGATAA
Restriction Sites:	NotI-NotI
ACCN:	NM_178498
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).
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:	NM_178498.2 , NP_848593.1
RefSeq Size:	2315 bp
RefSeq ORF:	1191 bp
Locus ID:	159963
UniProt ID:	Q1EHB4
Cytogenetics:	11p14.2
Protein Families:	Transmembrane

Gene Summary:

Normal blood lactate is maintained at about 1.5 mM, and little filtered lactate is excreted in urine. Reabsorption of lactate is mediated by the low-affinity Na(+)-coupled lactate transporter SLC5A12 in the initial part of the proximal tubule and by the high-affinity Na(+)-coupled lactate transporter SLC5A8 (MIM 608044) in the distal proximal tubule (Gopal et al., 2007 [PubMed 17692818]).[supplied by OMIM, Dec 2008]