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Product datasheet for SC318064

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
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_178498, the custom clone sequence may differ by one or more nucleotides

ATGGAGGTGAAGAACTTTGCAGTTTGGGATTATGTTGTATTTGCAGCCCTCTTTTTCATT
TCCTCTGGAATTGGGGTGTTCTTTGCCATTAAGGAGAGAAAAAAGGCAACTTCCCGAGAG
TTCCTGGTTGGGGGAAGGCAAATGAGCTTTGGCCCTGTCGGCTTGTCTCTGACAGCCAGC
TTCATGTCAGCTGTCACGGTCCTGGGGACCCCTTCTGAAGTCTACCGCTTTGGGGCATCC
TTCCTAGTCTTCTTCATTGCTTACCTATTTGTCATCCTCTTAACATCAGAGCTCTTTCTC
CCTGTGTTCTACAGATCTGGTATCACCAGCACTTATGAGTACTTACAACTACGATTCAAC
AAACCAGTTCGCTATGCTGCCACGGTCATCTACATTGTACAGACGATTCTCTACACAGGA
GTGGTGGTGTATGCTCCTGCCCTGGCACTCAATCAAGTGACTGGGTTTGATCTCTGGGGC
TCTGTGTTTGCAACAGGAATTGTTTGCACATTCTACTGTACCCTGGGAGGATTAAAAGCA
GTGGTGTGGACAGATGCATTTCAGATGGTTGTCATGATTGTGGGCTTCTTAACGGTTCTC
ATTCAAGGATCAACTCATGCTGGGGGATTCCACAATGTATTAGAGCAATCAACAAATGGA
TCTCGACTACATATATTTGACTTTGATGTAGATCCTCTCAGGCGACACACTTTTTGGACT
ATCACAGTGGGAGGAACTTTTACTTGGCTCGGAATCTATGGGGTCAATCAATCAACTATT
CAGCGATGCATCTCTTGCAAAACAGAAAAGCATGCTAAGCTTGCCTTGTATTTTAACTTG
CTGGGTCTCTGGATCATTCTGGTGTGTGCTGTCTTCTCTGGCTTAATCATGTACTCTCAC
TTTAAAGACTGTGACCCTTGGACTTCTGGCATCATCTCAGCACCAGACCAGCTGATGCCG
TACTTTGTCATGGAGATATTTGCCACAATGCCAGGACTGCCAGGACTTTTTGTGGCTTGT
GCCTTCAGTGGAACTCTGAGCACCGTGGCTTCCAGCATCAATGCCTTGGCAACAGTGACC
TTTGAGGATTTTGTCAAGAGCTGTTTTCCTCATCTCTCCGACAAGCTGAGCACCTGGATC
AGTAAAGGCTTATGTCTCTTATTTGGCGTGATGTGTACCTCTATGGCTGTGGCTGCATCT
GTCATGGGAGGTGTTGTGCAGGCTTCCCTCAGCATTCACGGCATGTGTGGAGGACCAATG
CTGGGCTTATTCTCCCTGGGAATCGTGTTCCCTTTTGTGAATTGGAAGGGTGCACTAGGA
GGTCTTCTTACTGGAATCACCTTGTCATTTTGGGTGGCCATTGGGGCCTTCATTTACCCT
GCACCAGCCTCTAAGACATGGCCTTTGCCTCTGTCAACAGACCAATGTATCAAATCAAAT
GTGACAGCAACAGGGCCTCCAGTACTATCCAGCAGACCTGGAATAGCTGATACCTGGTAC
TCGATCTCCTACCTTTACTACAGTGCAGTGGGCTGCTTAGGATGCATTGTTGCTGGAGTA
ATCATCAGCCTCATAACAGGTCGCCAAAGAGGTGAGGATATTCAACCACTGTTAATTAGA
CCAGTTTGTAATTTATTTTGCTTTTGGTCTAAGAAGTACAAAACACTATGCTGGTGTGGA
GTTCAGCATGACAGTGGGACAGAGCAGGAAAACCTTGAGAATGGCAGTGCCCGGAAACAG
GGGGCTGAATCTGTCTTACAGAACGGACTCAGAAGAGAAAGCCTGGTACATGTTCCAGGC
TATGATCCTAAGGACAAAAGCTACAACAATATGGCATTTGAGACTACCCATTTC

Restriction Sites: Please inquire

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).

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_178498.3, NP_848593.2
RefSeq Size:	6253 bp
RefSeq ORF:	1857 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]