

Product datasheet for **MC219873**

Slc5a12 (NM_001003915) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Slc5a12
Synonyms:	AI315119; D630015G19; SMCT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC219873 representing NM_001003915
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGTGAAGAACTTTGAAGCTTGGGATTATGTTGTGTTTGCAGGTCTCTTCGTCATTTCTCTGGAA
 TTGGCGTGTTCCTTTGCCATAAAGGAGAGAAAAAGACAACATCTCGGGAATTCCTAGTAGGAGGAAGGCA
 AATGAGCTTTGGCCCTGTAGCTTTGTCTCTGACAGCCAGCTTCATGTCAGCTGTCACTGTCTGGGACT
 CCTGCTGAAGTCTACCGCTTTGGGGCATCCTTCTTCTTTCTCATTTTCATATGATTTGTGGTCTTTT
 TCACATCTGAGCTCTTTCTTCTGTGTTCTACAGGTCTGGCATCACAAGCACCTATGAGTACTTACAGCT
 ACGATTCAACAAGCCAGTTTCGATATGCAGCAACCATTATCTACATCGTACAGACGATTCTCTATACTGGA
 GTCGTGGTCTACGCCCCTGCTCTGGCTCTCAACCAAGTGACTGGTTTTAATCTATGGGCCTCTGTGTTT
 CAACAGGAATCGTTGCACATTCTACTGTAGTTTGGGGGTTTAAAGCAGTGGTGTGGACAGATGCATT
 TCAGATGGTTGTCATGATTGTGGGCTTCTAACAGTCTTATCCAAGGATCAATCATGTTGGTGGCTTC
 AACAAATGTGTAGAAAAAGCAGGAAACGGATCCCGGCTACACATTGTTGACTTTGATGTAGATCCTCTAA
 GACGGCACACTTTTGGACAATTACAATAGGAGGAACTTTTACTTGGCTTGGAGTCTATGGAGTGAACCA
 ATCAACCATCCAGAGATGCATCTCTTGCAAAACAGAAAAGCATGCTAAGCTTGCCTTGACTTTAACTTG
 TTGGGCTCTGGATAATTGTGGCGTGTGCCGTCTTCTCTGGCTTGATCATGTAATCCCACTTCAAGGATT
 GTGACCCTTGGACTTCTGGTGTATTTCAGCACCAGACAGCTGATGCCATATTTTGTGATGGAGATTTT
 TGCAACTATGCCAGGGCTGCCAGGACTTTTGTGGCTTGTGCCTTATGTTGAAGTCTGAGCACAGTGGCT
 GCCAGCATCAATGCCTTAGCAACAGTGACCTTTGAGGATTTTGTCAAGAGCTGTTTTCCACACCTCTCCG
 ACAAACTGAGTACCTGGATCAGTAAAGGCTTATGTATCCTTTTCGGTATTATGTGTACCTCCATGGCTGT
 GGTTGCATCCCTCATGGGGAGTGTGTACAGGCCCGGCGCATAGTCTCACAAGAGAGAGCTATAACTGGG
 TCCTTTTCAGCGAAATCTTGCTAGTGTATGCTATGGTGTGAGCATTGGAAGCTGATTATGGGTGCTCTAG
 GAGGACTTCTTACTGGAATCACGTTGTCTTCTGGTGGCCATTGGATCTTTCATTTACCCTGCACCAGA
 ATCCAAGACATTACCTTTACCTCTATCAACAGAGCATTGTGTAGAACTAAATATAACAACAACAGTAGCC
 CCACAGATTTCCAGCAGACCTGTCCTAGCTGACACATGGTACTCACTCTCCTACCTTTACTTCAGTGCTG
 TGGGCTGCCTGGGATGTATCGCTGCTGGAATAATCATCAGTTTCTCACAGGCAAGCAAGAGGCAAGA
 CATTGATCCACTTTTAATAAGACCTGTTTGCAATTTATTTTGTCTTAAAGAAATACAAAACCTCTG
 TGCTGGTGTGGAGTTCAGCATGACCGGAAACAGAGCAGGATTACCTTGACAGTGGCAGTGCCTGGAAC
 AAGGGGTTGAATCTGGCCTACAGAAATGGACTCAAGCAAGACACCTTGGCTCAGATTCCAGGCTACAACCC
 TAAAGAAAAAGCTACAGCAACAGTGTGCCGGAAGACCATTATTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001003915

Insert Size:

1872 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).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001003915.2</u> , <u>NP_001003915.1</u>
RefSeq Size:	5104 bp
RefSeq ORF:	1872 bp
Locus ID:	241612
UniProt ID:	<u>Q49B93</u>
Cytogenetics:	2 E3
Gene Summary:	Acts as an electroneutral and low-affinity sodium (Na(+))-dependent sodium-coupled solute transporter. Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate. May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina. Mediates electroneutral uptake of lactate, with a stoichiometry of 2 Na(+) for each lactate.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.