

Product datasheet for **MC200185**

Slc5a1 (NM_019810) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a1 (NM_019810) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc5a1
Synonyms:	Sgt1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003845 sequence for NM_019810
 CCGACGCGTGGGGCTCGGTCTTCTTAAGGCACTGCACACCTAGGAGCTGCTTCCCGACGGTGTGTGCAG
 CGCAGCAGCACAGGGGCCAGCGTTCTGCGCGCAGCCCCACTGTCGCGGGTCCCCTCCCTCGGGGCTG
 ATCATTAACCTAAAAGCAGTATAAGGAGTGAGTGGCCCCGGTGAGCCTGTGAGCCGAGAGGGACTCGTCG
 CCACCGCCATGGACAGTAGCACCTTGAGCCCCGGTACTGCCACCGATGCACCCATCCCGTCTACGA
 GCGCATTCGCAATGCGGCTGACATCTCAGTCATCGTCACTACTTCGTGGTGGTGTGATGGTGTGGGCTG
 TGGGCCATGTTTTCCACTAATCGTGGTACCGTTGGAGGCTTCTTCTGGCAGGCCGAAGTATGGTGTGGT
 GGCCGATTGGAGCCTCTCTCTTTGCCAGTAACATTGGAAGTGGTCACTTTGTGGGGCTGGCAGGCACAGG
 AGCAGCCGCAAGCATTGGCATGGGTGGCTTTGAATGGAACGCCTTGGTTTTGGTGGTTGTCTGGGCTGG
 ATATTTGTCCCGATTTACATCAAGGCCGGGGTGGTACGATGCCGGAGTATCTGCGGAAGCGTTTTGGAG
 GCAAGAGAATTCAGATCTACCTTCCGTTCTGTCCCTGCTCCTCTACATCTTCAAAAGATCTCTGCAGA
 CATCTTCTCCGGGCTATATTCATCAATCTAGCCTTGGGCTGGATATATACTTGGCCATTTTCATCCTG
 CTAGCAATCACTGCCCTTATACAATCACAGGGGGCTGGCAGCTGTAATTTACACAGATACCCTGCAGA
 CCGCGATCATGCTGGTGGGTCTTTTATCTGACTGGGTTTGCTTCAATGAAGTAGGAGGATATGAAGC
 CTTTCATGGACAAGTACATGAAAGCTATTCCAATAAGGTTTCTAACGGAAATTTTACCGCAAGGAAGAA
 TGCTACACACCGAGGGCTGACTCATTCCACATATTCAGAGACCCCACTTGGAGACATGCCGTGGCCTG
 GGCTCATTTTTGGCCTGGCCATCCTCGCCCTGTGGTACTGGTGTACGGATCAGGTCATTGTGCAGCGATG
 CCTCTCGGCCAAGAACATGTCTCACGTGAAGGCTGGCTGTACCCTGTGTGGCTATCTGAAGCTACTGCC
 ATGTTCTCATGGTGTATGCCAGGAATGATCAGCCGGATTCTATATACAGAAAAATCGCCTGTGTCTCC
 CTGAAGAATGTCAGAAACTGCGGCACACCAGTGGGCTGTACCAACATCGCCTACCCACGCTCGTGGT
 GGAATCATGCCTAATGGACTGCGAGGCCTGATGCTGTCTGTGATGATGGCTTCCCTCATGAGCTCCTTG
 ACCTCCATCTTCAACAGCGCCAGTACTCTTCCACCATGGACATCTACACCAAGATCCGGAAGAAGGCAT
 CTGAGAAGGAGCTCATGATTGCAGGAAGTTGTTTCATCCTCGTGTGATTGGCATCAGCATTGCCTGGGT
 ACCCATTGTACAGTCTGCTCAAAGTGGGAGCTTTTTGATTACATCCAGTCTATACCAGTTACCTGGGG
 CCGCCATTGCAGCTGTCTTCTGCTTGCATTTTCTGCAAGAGAGTCAATGAACAAGGAGCCTTCTGGG
 GACTGATCCTGGGCTTCTGATTGGAATCTCCCGTATGATCACTGAGTTTGCCTATGGAAGTGGGAGCTG
 CATGGAGCCAGCAACTGCCCAAGATCATCTGTGGGTCCACTATTTGACTTTGCCATCATCCTCTTC
 GTCATCAGCGTCATCACCATCTTGATCATCTCCTTCTCACCAAGCCATTCCAGACGTGCACCTGTACC
 GTTTGTGTTGGAGTCTACGCAACAGCAAGGAAGAGCGAATCGACCTGGATGCAGGAGAGGAGGAGGACAT
 CCCAGAGGACTCCAAGGACACAATTGAAATAGACACAGAAGCCCCCAGAAGAAGAAAGGATGCTTCAGG
 AGAGCATATGACCTGTTCTGTGGGCTGGACCAAGATAAAGGACCAAGATGACTAAGGAGGAGGAGGAAG
 CCATGAAGATGAAGATGACAGACTTCTGAGAAGCCTTTGTGGAGGACAGTGGTGAACATCAACGGTAT
 TATCCTGCTGGCGGTAGCTGTCTTCTGCCATGCCTATTTTGCCTGAGCCCTGCCTTCTGGTGTAGACTCG
 GCAACTCTAGCATTGTTCTTCCCCTTTTGACCCACTCTGTAGTGGCAAGGGGAAGATGTCCACTTGTA
 ATTTACCGCATTCCGATAAAAAGGTGATAAGTGTGATTATAGGCTTGTGGAGGAAAGTATTACATTGC
 TGTGAACCTATGCATTTGAAGCCAGTGTGCCACTCATCTGCCATGCCAGAGCTTTAGAAGTGAAGTTG
 ACTCAGATATAGGAAAAGTCATGCCAAGACACAGAAGCCCTGTGTGTCTGATGTCACTGTCTCAGCT
 TGTAATTATTGTTATAATCCTTAATACTATTTTTTAAAATTGTAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_019810
Insert Size: 1998 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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: [BC003845](#), [AAH03845](#)

RefSeq Size: 2582 bp

RefSeq ORF: 1998 bp

Locus ID: 20537

UniProt ID: [Q8C3K6](#)

Cytogenetics: 5 B1

Gene Summary: Actively transports glucose into cells by Na(+) cotransport with a Na(+) to glucose coupling ratio of 2:1. Efficient substrate transport in mammalian kidney is provided by the concerted action of a low affinity high capacity and a high affinity low capacity Na(+)/glucose cotransporter arranged in series along kidney proximal tubules.[UniProtKB/Swiss-Prot Function]