

Product datasheet for **MR209884**

Slc5a1 (NM_019810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a1 (NM_019810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc5a1
Synonyms:	Sgt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR209884 representing NM_019810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGTAGCACCTTGAGCCCCGCGTTACTGCCACCGATGCACCCATCCCGTCTACGAGCGCATTC
 GCAATGCGGCTGACATCTCAGTCATCGTCATCTACTTCGTGGTGGTGATGGCTGTCGGGCTGTGGGCCAT
 GTTTTCCACTAATCGTGGTACCGTTGGAGGCTTCTTCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATT
 GGAGCCTCTCTTTGCCAGTAACATTGGAAGTGGTCACTTTGTGGGGCTGGCAGGCACAGGAGCAGCCG
 CAGGCATTGCCATGGGTGGCTTTGAATGGAACGCCTTGGTTTTGGTGGTGTGCTGGGCTGGATATTTGT
 CCCGATTTACATCAAGGCCGGGGTGGTACGATGCCGGAGTATCTGCGGAAGCGGTTTGGAGGCAAGAGA
 ATTCAGATCTACCTTTCCGTTCTGTCCCTGCTCCTCTACATCTTACAAAGATCTCTGCAGACATCTTCT
 CCGGGGCTATATTCATCAATCTAGCCTTGGGCCTGGATATATACTTGGCCATTTTCATCCTGCTAGCAAT
 CACTGCCCTTTTACAATCACAGGGGGCTGGCAGCTGAATTTACACAGATACCCTGCAGACCGCGATC
 ATGCTGGTGGGGTCTTTTATCCTGACTGGGTTTGCCTTCAATGAAGTAGGAGGATATGAAGCCTTACATGG
 ACAAGTACATGAAAGCTATTCCAACAAAGTTTCTAACGAAAATTTACCGCCAAGGAAGATGCTACAC
 ACCGAGGGCTGACTATTCCACATATTCAGAGACCCCACTTACTGGAGACATGCCGTGGCCTGGGCTCATT
 TTTGGCCTGGCCATCCTCGCCCTGTGGTACTGGTGTACGGATCAGGTCATTGTGCAGCGATGCCTCTCGG
 CCAAGAACATGTCTCACGTGAAGGCTGGCTGTACCCTGTGTGGCTATCTGAAGCTACTGCCCATGTTCTCT
 CATGGTGTGCCAGGAATGATCAGCCGGATTCTATACAGAAAAATCGCCTGTCTCCCTGAAGAA
 TGTCAGAAACTGCGGCACACCAAGTGGCTGTACCAACATCGCCTACCCACGCTCGTGGTGAAGTCA
 TGCCTAATGGACTGCGAGGCCTGATGCTGTCTGTATGATGGCTTCCCTCATGAGCTCCTTGACCTCCAT
 CTTCAACAGCGCCAGTACTCTTCCACCATGGACATCTACACCAAGATCCGGAAGAAGGCATCTGAGAAG
 GAGCTCATGATTGCAGGAAGTTGTTTCCTCGTGTGATTGGCATCAGCATTGCCTGGGTACCCATTG
 TACAGTCTGCTCAAAGTGGGCGAGCTTTTGTATTACATCCAGTCTATCACCAGTTACCTGGGGCCGCCAT
 TGCAGCTGTCTTCTGCTTGGCATTCTGCAAGAGAGTCAATGAACAAGGAGCCTTCTGGGGACTGATC
 CTGGGCTTCTGATTGGAATCTCCCGTATGATCACTGAGTTTGCCTATGGAAGTGGGAGCTGCATGGAGC
 CCAGCAACTGCCCAAGATCATCTGTGGGGTCCACTATTTGTACTTTGCCATCATCTCTTCGTCATCAG
 CGTCATCACCATCTTGATCATCTCCTTCTCACCAGCCATTCCAGACGTGCACCTGTACCGTTTGTGT
 TGGAGTCTACGCAACAGCAAGGAAGAGCGAATCGACCTGGATGCAGGAGAGGAGGACATCCCAGAGG
 ACTCCAAGGACACAATTGAAATAGACACAGAAGCCCCCAGAAGAAGAAAGGATGCTTCAGGAGAGCATA
 TGACCTGTTCTGTGGGCTGGACCAAGATAAAGGACCAAGATGACTAAGGAGGAGGAGGAAGCCATGAAG
 ATGAAGATGACAGACACTTCTGAGAAGCCTTTGTGGAGGACAGTGGTGAACATCAACGGTATTATCCTGC
 TGGCGGTAGCTGTCTTCTGCCATGCCTATTTTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209884 representing NM_019810
 Red=Cloning site Green=Tags(s)

MDSSTLSPAVTATDAPIPSYERIRNAADISVIVIVYFVVVMAVGLWAMFSTNRGTVGGFFLAGRSMVWVPI
 GASLFSASNI GSGHFVGLAGTGAAAGIAMGGFEWNLV L VVVLGWIFVPIYIKAGVVTMPEYLKRFGGKR
 IQIYLSVLSLLL YIFTKISADIFSGAIFINLALGLDIYLAIFILLAITALYITITGGLAAVIYTDTLQTAI
 MLVGSFILTGFAFNEVGGYEFMDKYMKA IPTKVSNGNF TAKEECYTPRADS FHI FRDPI TGDMPWPGLI
 FGLAILALWYWC TDQVIVQRCLSAKNMSHVKAGCTLCGYLKLLPMFLMVMPGMISRILYTEK IACVLP EE
 CQKYCGTPV GCTNIAYPTLVVELMPNGLRGLMLSVMMASLMSSLT SIFNSASTLFTMDIYTKIRKKASEK
 ELMIAGRLFILVLIGISIAWPIVQSAQSGQLFDYIQSITSYLGPPIAAVFLLAIFCKRVNEQGAFWGLI
 LGFLIGISRMITEFAYGTGSCMEPSNPKIICGVHYLYFAIILFVISVITILIIISFLTKPIPDVHLYRLC
 WSLRNSKEERIDL DAGEEEDIPEDSKDTIEIDTEAPQKKKGC FRRAYDLFCGLDQDKGPKMTEEEEEAMK
 MKMTDTSEKPLWRTVVNINGIILLAVAVFCHAYFA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1775_e09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

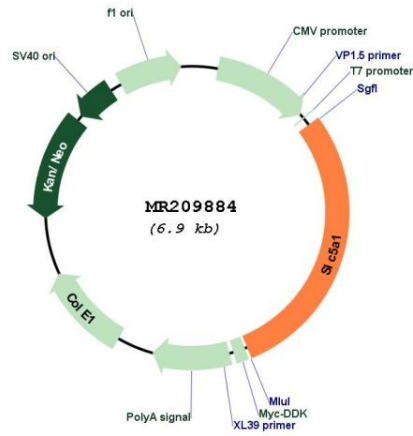


ACCN: NM_019810

ORF Size: 1995 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_019810.2 , NM_019810.3 , NM_019810.4 , NP_062784.3
RefSeq Size:	3933 bp
RefSeq ORF:	1998 bp
Locus ID:	20537
UniProt ID:	Q8C3K6
Cytogenetics:	5 B1
MW:	73.8 kDa
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]

Product images:



Circular map for MR209884