

Product datasheet for **MG209884**

Slc5a1 (NM_019810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a1 (NM_019810) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc5a1
Synonyms:	Sgt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209884 representing NM_019810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAGTAGCACCTTGAGCCCCGCGTTACTGCCACCGATGCACCCATCCCGTCTACGAGCGCATTC
 GCAATGCGGCTGACATCTCAGTCATCGTCATCTACTTCGTGGTGGTGATGGCTGTCGGGCTGTGGGCCAT
 GTTTTCCACTAATCGTGGTACCGTTGGAGGCTTCTTCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATT
 GGAGCCTCTCTTTGCCAGTAACATTGGAAGTGGTCACTTTGTGGGGCTGGCAGGCACAGGAGCAGCCG
 CAGGCATTGCCATGGGTGGCTTTGAATGGAACGCCTTGGTTTTGGTGGTGTGCTGGGCTGGATATTTGT
 CCCGATTTACATCAAGGCCGGGGTGGTACGATGCCGGAGTATCTGCGGAAGCGGTTTGGAGGCAAGAGA
 ATTCAGATCTACCTTTCCGTTCTGTCCCTGCTCCTCTACATCTTCACAAAGATCTCTGCAGACATCTTCT
 CCGGGGCTATATTCATCAATCTAGCCTTGGGCCTGGATATATACTTGGCCATTTTCATCCTGCTAGCAAT
 CACTGCCCTTTTACAATCACAGGGGGCTGGCAGCTGTAAATTTACACAGATACCCTGCAGACCGCGATC
 ATGCTGGTGGGGTCTTTTATCCTGACTGGGTTTGTCTTCAATGAAGTAGGAGGATATGAAGCCTTACATGG
 ACAAGTACATGAAAGCTATTCCAACAAAGTTTCTAACGAAAATTTACCGCCAAGGAAGATGCTACAC
 ACCGAGGGCTGACTATTCCACATATTCAGAGACCCCACTTACTGGAGACATGCCGTGGCCTGGGCTCATT
 TTTGGCCTGGCCATCCTCGCCCTGTGGTACTGGTGTACGGATCAGGTCATTGTGCAGCGATGCCTCTCGG
 CCAAGAACATGTCTCACGTGAAGGCTGGCTGTACCCTGTGTGGCTATCTGAAGCTACTGCCCATGTTCTCT
 CATGGTGTGCCAGGAATGATCAGCCGGATTCTATATACAGAAAAATCGCCTGTGCTCCCTGAAGAA
 TGTGAGAAATCTGCGGCACACCAGTGGGCTGTACCAACATCGCCTACCCACGCTCGTGGTGGAACTCA
 TGCCTAATGGACTGCGAGGCCTGATGCTGTCTGTCATGATGGCTTCCCTCATGAGCTCCTTGACCTCCAT
 CTTCAACAGCGCCAGTACTCTCTTACCATGGACATCTACACCAAGATCCGGAAGAAGGCATCTGAGAAG
 GAGCTCATGATTGCAGGAAGGTTGTTTCCTCGTGTGATTGGCATCAGCATTGCCTGGGTACCCATTG
 TACAGTCTGCTCAAAGTGGGCGCTCTTTGATTACATCCAGTCTATCACCAGTTACCTGGGGCCGCCAT
 TGCAGCTGTCTTCTGCTTGGCATTCTGCAAGAGAGTCAATGAACAAGGAGCCTTCTGGGGACTGATC
 CTGGGCTTCTGATTGGAATCTCCCGTATGATCACTGAGTTTGCCTATGGAAGTGGGAGCTGCATGGAGC
 CCAGCAACTGCCCAAGATCATCTGTGGGGTCCACTATTTGACTTTGCCATCATCTCTTCGTCATCAG
 CGTCATCACCATCTTGATCATCTCCTTCTCACCAGCCATTCCAGACGTGCACCTGTACCGTTTGTGT
 TGGAGTCTACGCAACAGCAAGGAAGAGCGAATCGACCTGGATGCAGGAGAGGAGGACATCCCAGAGG
 ACTCCAAGGACACAATTGAAATAGACACAGAAGCCCCCAGAAGAAGAAAGGATGCTTCAGGAGAGCATA
 TGACCTGTTCTGTGGGCTGGACCAGGATAAAGGACCAAGATGACTAAGGAGGAGGAGGAAGCCATGAAG
 ATGAAGATGACAGACACTTCTGAGAAGCCTTTGTGGAGGACAGTGGTGAACATCAACGGTATTATCTCTGC
 TGGCGGTAGCTGTCTTCTGCCATGCCTATTTTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209884 representing NM_019810
 Red=Cloning site Green=Tags(s)

MDSSTLSPAVTATDAPISYERIRNAADISVIVYFVVVMAVGLWAMFSTNRGTVGGFFLAGRSMVWVPI
 GASLFASNI GSGHFVGLAGTGAAAGIAMGGFEWNLV L VVVLGWIFVPIYIKAGVVTMPPEYLKRFGGKR
 IQIYLSVLSLLL YIFTKISADIFSGAIFINLALGLDIYLAIFILLAITALYITGGAAVIYDTLQTAI
 MLVGSFILTGF AFNEVGGYEFMDKYMKA IPTKVSNGNF TAKEECYTPRADS FHI FRDPI TGDM PWPGLI
 FGLAILALWYWC TDQVIVQRCLSAKNMSHV KAGCTLCGYL KLLPMFLMVMPGMISRILYTEK IACVLP EE
 CQKYCGTPV GCTNIAYPTLVVELMPNGLRGLMLSVMMASLMSSLT SIFNSASTLFTMDIYTKIRKKASEK
 ELMIAGRLFILV LIGISIAWPIVQSAQSGQLFDYIQSITSYLGPPIAAVFLLAIFCKRVNEQGAFWGLI
 LGFLIGISRMITEFAYGTGSCMEPSNPKIICGVHYLYFAIILFVISVITILIIISFLTKPIPDVHLYRLC
 WSLRNSKEERIDLDAGEEEDIPEDSKDTIEIDTEAPQKKKGC FRRAYDLFCGLDQDKGPKMTKEEEEAMK
 MKMTDTSEKPLWRTVVNINGIILLAVAVFCHAYFA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019810

ORF Size: 1995 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](#)

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:

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_019810.4](#), [NP_062784.3](#)

RefSeq Size: 3933 bp

RefSeq ORF: 1998 bp

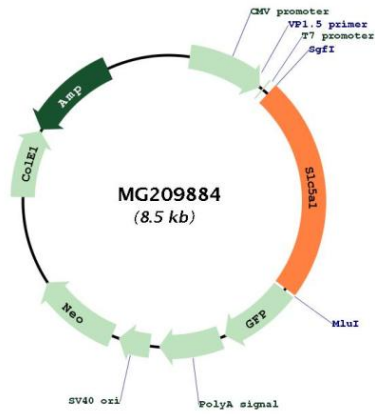
Locus ID: 20537

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]

Product images:



Circular map for MG209884