

Product datasheet for **MG209920**

Slc5a2 (NM_133254) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a2 (NM_133254) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc5a2
Synonyms:	Sgt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209920 representing NM_133254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAACACGTAGAGGCAGGCTCTGAACCTGGGGAGCAGAAGTCTCTGATTGATAATCTGCTGACA
 TTCTGGTTATCGCTGCCTATTTCTGCTGGTCATTGGTGTGGCTTGTGGTCTATGTTTCTGAGCAACCAATAG
 AGGCACAGTTGGTGGCTACTTCTGCGCAGGACGGAGCATGGTGTGGTGGCCGGTTGGAGCCTCTCTGTTT
 GCCAGCAACATCGGCAGCGGTCAATTTGTGGCCCTGGCAGGGACTGGCGCAGCAAGTGGCTTGGCGGTGG
 CTGGATTTGAGTGGAAATGCGCTCTTCGTGGTGTCTCTCGGATGGCTTTTGTGCCAGTGTATCTGAC
 CGCTGGTGTGATCACAATGCCTCAGTACCTCCGCAAGCGCTTTGGTGGGCACCGTATTCGCTCTACCTG
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 TTCAACAGGCCCTGGGCTGGAACATTTACGCTTCGGTCATCGCTCTCTTGGGCATCACCATGATTTATAC
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 TTCATCTCACTGGTTATGCTTTCCATGAAGTGGCGGGTACTCGGGTCTCTTCGACAAATACCTGGGAG
 CAATGACTTCACTGACGGTGTCCAAGGATCCATCTGTTGGCAACATCTCCAGCACCTGCTACCAGCCGAG
 GCCTGACTCCTATCACCTGCTGCGTGACCTGTGACAGGAGACCTGCCATGGCCTGCGCTGCTCCTGGGG
 CTTACCATTGCTCGGGCTGGTATTGGTGCAGCGATCAGGTAATAGTGCAGCGGTGCCTGGCTGGAAAGA
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 CATGCCAGGCATGATCAGCCGATTCTCTACCCAGATGAGGTGGCATGTGTGGTACCTGAGGTGTGTAAG
 CGGGTGTGTGGCACTGAGGTGGGCTGCTAACATCGCTACCCACGGCTCGTGGTGAAGCTCATGCCCA
 ATGGTCTGCGCGGACTCATGCTGGCAGTATGCTGGCTGCCCTCATGCTTCTCTGGCATCCATCTTTAA
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 CTGCTAGTTGGAAGGCTCTGGTGGTATTATCATCGTGGCGGTGTCCTGGCTTGGCTGCCAGTGGTGCAGG
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 CGTGCCCGGCACTCTTCTGTGGGTACACTACCTCTATTTGCCATCATTCTCTTCTGCTCTGGCAT
 CCTCACACTTGAATCTCCCTGTGCACTGCGCCCATCCCTCAGAAGCATCTCCATCGCTGGTTTTTCAGT
 CTCGGCACAGCAAGGAGGAGCGGGAGGACCTGGATGCTGATGAGTTAGAAGGTCCAGCCCTGCTCCTG
 TGCAGAACGGGGCCAGGAATGTGCAATGGAGATGGAAGAGGTCCAGTCCCGGCTCCAGGCCTGCTCCG
 CCGGTGCCTGCTTTGGTTCTGTGGGATGAGCAAGAGTGGGTGAGGGAGTCTCCGCCACTACCGAGGAG
 GTGGCGGCAACCACAGGCGGCTGGAGGACATCAGTGGAGATCCCGCTGGGCACGAGTAGTCAACCTCA
 ATGCCCTACTCATGATGACCGTGGCTGTGTTCTCTGGGGCTTCTATGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209920 representing NM_133254
 Red=Cloning site Green=Tags(s)

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MEQHVEAGSELGEQKVLIDNPADILVIAAYFLLVIGVGLWSMFRTNRGTVGGYFLAGRSMVWVPGASLF
ASNIGSGHFVGLAGTGAASGLAVAGFEWNALFVLLLLGWLFPVYLTAGVITMPQYLKRFGGHRIRLYL
SVLSLFLYIFTKISVDMFSGAVFIQQALGWNIYASVIALLGITMIYTVTGLAALMYTDTVQTFVILAGA
FILTGAFHEVGGYSGLFDKYLGAMTSLTVSKDPSVGNISSTCYQPRPDSYHLLRDPVTGDLWPALLLG
LTIVSGWYWCSDQVIVQRCLAGKNLTHIKAGCILCGYKLMMPFMMVMPGMSRILYPDEVACVPEVCK
RVCGTEVGCSNIAYPRLVVKLMPNGLRGLMLAVMLAALMSSLASIFNSSSTLFTMDIYTRLRPRAGDEL
LLVGRLLWVVFIVAVSVAWLPVVQAAQGGQLFDYIQSVSSYLAPPVSAVFLALFVPRVNEKGAFWGLVGG
LLMGLARLIPPEFFFGSGSCVRPSACPALFCRVHYLYFAIILFICSGILTLGISLCTAPIPKHLHRLVFS
LRHSKEEREDLDADELEGPAPAPVQNGGQECAMEMEEVQSPAPGLLRCLLWFCGMSKSGSGSPPTTEE
VAATTRLEDISEDPRWARVVNLNALLMMTVAVFLWGFYA
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

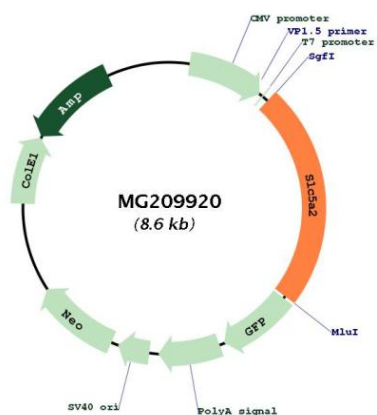


ACCN: NM_133254

ORF Size: 2010 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_133254.5
RefSeq Size:	2259 bp
RefSeq ORF:	2013 bp
Locus ID:	246787
UniProt ID:	Q92317
Cytogenetics:	7 F3
Gene Summary:	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 MG209920