

Product datasheet for **RN208920**

Slc5a1 (NM_013033) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a1 (NM_013033) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc5a1
Synonyms:	SGLT1; SGLT1a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN208920 representing NM_013033
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAGTAGCACCTTGAGCCCGCTGTACTGCCACCGATGCACCCATCCAGTCTATGAGCGCATTC
 GCAATGCGGCTGACATATCAGTCATCGTCATCTACTTCGTGGTGGTGATGGCTGTCGGGCTGTGGGCCAT
 GTTTTCCACTAATCGTGGGACTGTTGGAGGCTTCTCCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATT
 GGAGCCTCTCTTTGCCAGTAACATCGGAAGTGGTCACTTTGTGGGGCTGGCGGGCACAGGAGCAGCCG
 CAGGCATTGCCATGGGTGGCTTGAATGGAACGCCTTGGTGTTCGTGGTCTGCTGGGGTGGCTTTTGT
 CCCTATTTACATCAAGGCTGGGGTGGTACGATGCCGGAGTATCTGCGGAAGCGATTTGGAGGCAAGCGG
 ATCCAGATCTACCTTTCCGTTCTGTCCCTGCTCCTCTACATCTTACCAAGATCTCAGCAGACATCTTCT
 CTGGGGCTATATTCATCAATCTGGCCTTGGCCCTGGATATATACCTGGCCATTTTCATCCTGCTGGCCAT
 CACCGCCCTTTACACCATCACAGGGGACTGGCAGCAGTAATTTACACAGACACCTTGCAGACTGCGATC
 ATGCTGGTGGGATCTTTTATCCTGACTGGGTTTGCCTTCCGAGAAGTAGGAGGGTATGAGGCCTTATGG
 ATAAGTACATGAAAGCTATTCCAACCTTGGTTTCTGATGGAAACATAACCGTCAAAGAAGATGTTACAC
 ACCCAGGGCCGACTCGTTCACATATTCGAGACCCCATACGGGGGACATGCCATGGCCTGGGCTCATC
 TTCGGCCTGTCCATCCTCGCCCTGTGGTACTGGTGTACGGATCAGGTCATTGTGCAGCGATGCCTCTCGG
 CCAAGAACATGTCTCACGTGAAGGCTGGCTGTACCCTGTGTGGCTATCTGAAGCTACTGCCTATGTTCT
 CATGGTGTATGCCCCGAATGATCAGCCGGATTCTATACACAGACAAAATCGCCTGTGTCTCCCTCAGAA
 TGTAAGAAATACTGCGGCACCCAGTGGGCTGTACCAACATCGCCTACCAACACTGGTGGTGGAACTCA
 TGCTAACGGACTTCGAGGCCTGATGCTGTCCGTATGATGGCTTCCCTCATGAGCTCCTTGACCTCCAT
 CTCAACAGCGCCAGTACTCTTCCACATGGACATCTACACCAAGATCCGGAAGGGTGCATCGGAGAAG
 GAGCTCATGATTGCAGGAAGGTTGTTTCCTCGTGTGATTGGCATCAGCATTGCCTGGGTGCCATTG
 TGCAGTCTGCCAAAGCGGGCAGCTCTTTGACTACATCCAGTCCATCACCAGTTACCTGGGGCCACCCAT
 TGCAGCCGTCTTCTGCTGGCTATTTTCTGCAAGAGAGTCAATGAACCGGGAGCCTTCTGGGGACTGATT
 CTCGGCTTCTGATTGGAATCTCCCGTATGATCACTGAGTTTGCCTACGGAAGTGAAGCTGCATGGAGC
 CCAGCAACTGCCCAAGATCATCTGCGGGTCCACTATCTGTACTTTGCCATCATCTCTTCGCTATCAG
 CGTCGTCACCGTCTTGGTCACTCCCTCCTCACCAAGCCCATCCAGACGTGCACCTGTACCGTCTGTGC
 TGGAGTCTACGTAAACAGCACAGAAGAGCGCATCGACCTGGATGCAGGAGAGGAGGAGCCCGTCGAGGAGG
 ACCCTAAAGATACCATTGAAATAGATGCAGAAGCCCCCAGAAGGAGAAGGGGTGCTTCAGGAAGGCATA
 TGACCTGTTCTGTGGGCTGGACCAGGATAAAGGACCGAAGATGACTAAGGAAGAGGAGGAAGCTATGAAG
 CTGAAGATGACGGACACTTCCGAGAAGCCCTTGTGGAGGACAGTGGTGAACATCAACGGCATCATCTCC
 TGGCAGTGGTGTCTTCTGCCACGCCTATTTTGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1575_f04.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_013033

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: [NM_013033.2](#), [NP_037165.1](#)

RefSeq Size: 2522 bp

RefSeq ORF: 1998 bp

Locus ID: 25552

UniProt ID: [P53790](#)

Cytogenetics: 14q21

Gene Summary: catalyzes sodium dependent glucose transport; plays a role in sugar absorption in the small intestine and reabsorption of sugars in the kidney [RGD, Feb 2006]