

## Product datasheet for **RR208920**

### Slc5a1 (NM\_013033) Rat Tagged ORF Clone

#### Product data:

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



[View online »](#)

ORF Nucleotide  
Sequence:

>RR208920 representing NM\_013033  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGACAGTAGCACCTTGAGCCCCGCTGTACTGCCACCGATGCACCCATCCAGTCTATGAGCGCATTC  
 GCAATGCGGCTGACATATCAGTCATCGTCATCTACTTCGTGGTGGTGATGGCTGTCGGGCTGTGGGCCAT  
 GTTTTCCACTAATCGTGGGACTGTTGGAGGCTTCTTCTGGCAGGCCGAAGTATGGTGTGGTGGCCGATT  
 GGAGCCTCTCTTTGCCAGTAACATCGGAAGTGGTCACTTTGTGGGGCTGGCGGCACAGGAGCAGCCG  
 CAGGCATTGCCATGGGTGGCTTGAATGGAACGCCTTGGTGTTCGTGGTCTGCTGGGGTGGCTTTTTGT  
 CCCTATTTACATCAAGGCTGGGGTGGTACGATGCCGGAGTATCTGCGGAAGCGATTTGGAGGCAAGCGG  
 ATCCAGATCTACCTTTCCGTTCTGTCCCTGCTCCTCTACATCTTACCAAGATCTCAGCAGACATCTTCT  
 CTGGGGCTATATTCATCAATCTGGCCTTGGCCCTGGATATATACCTGGCCATTTTCATCCTGCTGGCCAT  
 CACCGCCCTTTACACCATCACAGGGGACTGGCAGCAGTAATTTACACAGACACCTTGCAGACTGCGATC  
 ATGCTGGTGGGATCTTTTATCCTGACTGGGTTTGTCTTCCGAGAAGTAGGAGGGTATGAGGCCTTATGG  
 ATAAGTACATGAAAGCTATTCCAACCTTGGTTTCTGATGGAAACATAACCGTCAAAGAAGAAATGTTACAC  
 ACCCAGGGCCGACTCGTTCCACATATCCGAGACCCCATACGGGGGACATGCCATGGCCTGGGCTCATC  
 TTCGGCCTGTCCATCCTCGCCCTGTGGTACTGGTGTACGGATCAGGTCATTGTGCAGCGATGCCTCTCGG  
 CCAAGAACATGTCTCACGTGAAGGCTGGCTGTACCCTGTGTGGCTATCTGAAGCTACTGCCTATGTTCT  
 CATGGTGTATGCCCCGAATGATCAGCCGGATTCTATACACAGACAAAATCGCCTGTGCTCCTCCCTCAGAA  
 TGTAAGAAATACTGCGGCACCCAGTGGGCTGTACCAACATCGCCTACCAACACTGGTGGTGAAGTCA  
 TGCCTAACGGACTTCGAGGCCTGATGCTGTCCGTATGATGGCTTCCCTCATGAGCTCCTTGACCTCCAT  
 CTTCAACAGCGCCAGTACTCTTCCACCATGGACATCTACACCAAGATCCGGAAGGGTGCATCGGAGAAG  
 GAGCTCATGATTGCAGGAAGGTTGTTTCCTCGTGTGATTGGCATCAGCATTGCCTGGGTGCCATTG  
 TGCAGTCTGCCAAAGCGGGCAGCTCTTTGACTACATCCAGTCCATCACCAGTTACCTGGGGCCACCCAT  
 TGCAGCCGTCTTCTGCTGGCTATTTTCTGCAAGAGAGTCAATGAACCGGGAGCCTTCTGGGGACTGATT  
 CTCGGCTTCTGATTGGAATCTCCCGTATGATCACTGAGTTTGCCTACGGAAGTGAAGCTGCATGGAGC  
 CCAGCAACTGCCCAAGATCATCTGCGGGTCCACTATCTGTACTTTGCCATCATCTCTTCGCTATCAG  
 CGTCGTCACCGTCTTGGTCATCTCCCTCCTCACCAAGCCCATCCCAGACGTGCACCTGTACCGTCTGTGC  
 TGGAGTCTACGTAACAGCACAGAAGAGCGCATCGACCTGGATGCAGGAGAGGAGGCCCGTCGAGGAGG  
 ACCCTAAAGATACCATTGAAATAGATGCAGAAGCCCCCAGAAGGAGAAGGGGTGCTTCAGGAAGGCATA  
 TGACCTGTTCTGTGGGCTGGACCAGGATAAAGGACCGAAGATGACTAAGGAAGAGGAGGAAGCTATGAAG  
 CTGAAGATGACGGACACTTCCGAGAAGCCCTTGTGGAGGACAGTGGTGAACATCAACGGCATCATCTCC  
 TGGCAGTGGTGTCTTCTGCCACGCCTATTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**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](mailto: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\\_013033.2](#), [NP\\_037165.1](#)

**RefSeq Size:** 2522 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 25552

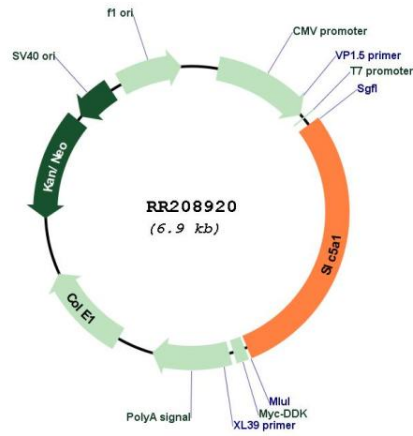
**UniProt ID:** [P53790](#)

**Cytogenetics:** 14q21

**MW:** 73.5 kDa

**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]

Product images:



Circular map for RR208920