

Product datasheet for **RC210972**

SLC2A10 (NM_030777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A10 (NM_030777) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC2A10
Synonyms:	ATORS; ATS; GLUT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC210972 representing NM_030777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCACTCCCCACCTGTCCTGCCTTTGTGTGCTCTGTGCTTTGCTGGGTGGCCTGACCTTTGGTT
 ATGAACTGGCAGTCATATCAGGTGCCCTGCTGCCACTGCAGCTTGACTTTGGGCTAAGCTGCTTGGAGCA
 GGAGTTCTGGTGGGCAGCCTGCTCCTGGGGGCTCTCCTCGCCTCCCTGGTTGGTGGCTTCTCATTGAC
 TGCTATGGCAGGAAGCAAGCCATCCTCGGGAGCAACTTGGTGTGCTGCTGGCAGGCAGCCTGACCTGGGCC
 TGGCTGGTTCCCTGGCCTGGCTGGTCTGGGCCGCGCTGTGGTTGGCTTCGCCATTTCCCTCTCCTCCAT
 GGCTTGTGTATCTACGTGTGAGAGCTGGTGGGCCACGCGAGCGGGAGTGCTGGTGTCCCTCTATGAG
 GCAGGCATCACCGTGGGCATCCTGCTCTCCTATGCCCTCAACTATGCACTGGCTGGTACCCCTGGGGAT
 GGAGGCATGTTCCGGTGGGCCACTGCACCTGCTGTCTGCAATCCCTCAGCCTCTCTCCTCCCTGC
 TGGTACAGATGAGACTGCAACACACAAGGACCTCATCCCACTCCAGGGAGGTGAGCCCCCAAGCTGGGC
 CCGGGGAGGCCACGGTACTCCTTTCTGGACCTCTTCAGGGCAGCGGATAACATGCGAGGCCGGACCACAG
 TGGGCCTGGGGCTGGTGTCTTCCAGCAACTAACAGGGCAGCCCAACGTGCTGTGCTATGCCTCCACCAT
 CTTAGCTCCGTTGGTTTCCATGGGGGATCCTCAGCCGTGCTGGCCTCTGTGGGGCTTGGCGCAGTGAAG
 GTGGCAGCTACCTGACCGCCATGGGGCTGGTGGACCGTGCAGGCCGAGGGCTCTGTTGCTAGCTGGCT
 GTGCCCTCATGGCCCTGTCCGTCACTGGCATAGGCCTCGTCAGCTTTGCCGTGCCATGGACTCAGGCC
 AAGCTGTCTGGCTGTGCCAATGCCACCGGGCAGACAGGCCTCCCTGGAGACTCTGGCCTGCTGCAGGAC
 TCCTCTCTACCTCCATTCCAAGGACCAATGAGGACCAAGGGAGCCAACTTGTCCACTGCTAAGAAAA
 CCAAGCCCCATCCAGATCTGGAGACCCCTCAGCCCTCCTCGGCTGGCCTGAGCTCTGCCCTCCCTGG
 GCCCCCTCTGCCGCTCGGGGGCATGCACTGTGCGCTGGACCGCACTGCTGTGCCTGATGGTCTTTGTC
 AGTGCCTTCTCCTTTGGTTTGGGCCAGTGACCTGGCTTGTCTCAGCGAGATCTACCCTGTGGAGATAC
 GAGGAAGAGCCTTCGCCTTCTGCAACAGCTTCAACTGGGCGGCCAACCTTTCATCAGCCTCTCCTTCT
 CGATCTCATTGGCACCATCGGCTTGTCTGGACCTTCTGCTCTACGACTGACCGCTGTCTCGGCCTG
 GGCTTCATCTATTTATTTGTTCTGAAACAAAAGGCCAGTCGTTGGCAGAGATAGACCAGCAGTTCCAGA
 AGAGACGGTTACCCTGAGCTTTGGCCACAGGCAGAACTCCACTGGCATCCCGTACAGCCGCATCGAGAT
 CTCTGCGGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210972 representing NM_030777
 Red=Cloning site Green=Tags(s)

MGHSPVPLPCASVSLGGLTFGYELAVISGALLPLQLDFGLSCLEQFLVGSLLLALLASLVGGFLID
 CYGRKQAILGSNLVLLAGSLTLGLAGSLAWLVGRAVVGFAISLSSMACCIYVSELVGPQRQGVLVSLYE
 AGITVIGILLSYALNYALAGTPWGWHRMFGWATAPAVLQSLSLFLPAGTDETHKDLIPLQGGEAPKLG
 PGRPRYSFLDLFRARDNMRGRTTVGLGLVLFQQLTGQPNVLCYASTIFSSVGFHGGSSAVLASVGLGAVK
 VAATLTAMGLVDRAGRRALLLAGCALMALSVSGIGLVSFVPMDSGPSCLAVPNATGQTGLPGDSGLLQD
 SSLPPIPTNEDQREPISTAKTKPHPRSGDPSAPPRALSSALPGPPLPARGHALLRWTALLCLMVFV
 SAFSFGFPGVTLVLEIYPVEIRGRAFAFCNSFNWAANLFISLFDLIGTIGLSWTFLLYGLTAVLGL
 GFIIYLFVPETKGQSLAEIDQQFQKRRFTLSFGRQNSTGIPYSRIEISAAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

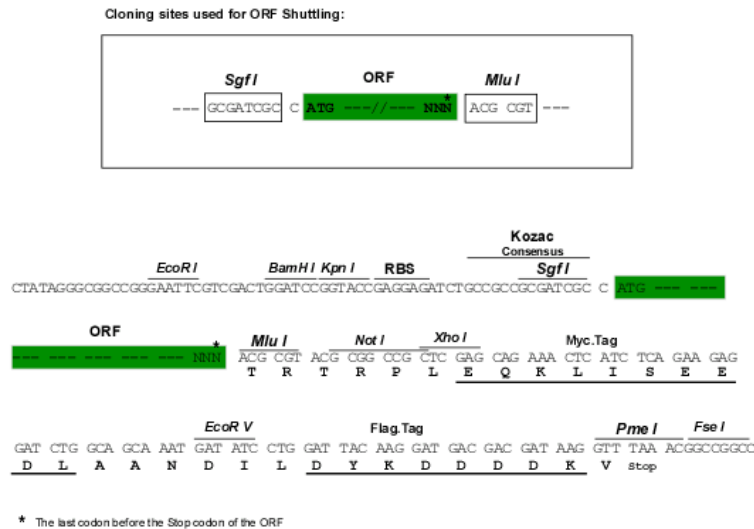
Chromatograms:

https://cdn.origene.com/chromatograms/mg3047_a09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_030777

ORF Size: 1623 bp

OTI Disclaimer: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030777.4](#)

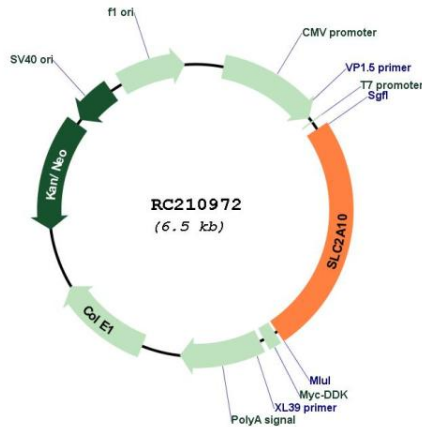
RefSeq Size: 4241 bp

RefSeq ORF: 1626 bp

Locus ID: 81031

UniProt ID:	<u>O95528</u>
Cytogenetics:	20q13.12
Protein Families:	Transmembrane
MW:	56.7 kDa
Gene Summary:	This gene encodes a member of the class III facilitative glucose transporter family. The encoded protein plays a role in regulation of glucose homeostasis. Mutations in this gene have been associated with arterial tortuosity syndrome.[provided by RefSeq, Dec 2009]

Product images:



Circular map for RC210972