

Product datasheet for **RC237649**

SLC2A2 (NM_001278659) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC2A2 (NM_001278659) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SLC2A2
Synonyms: GLUT2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237649 representing NM_001278659
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTATATCGGTGAAATTGCTCCAACCGCTCTCAGGGGAGCACTTGGCACTTTTCATCAGCTGGCCATCG
TCACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTTATCTGGGCAATTATGATCTGTGGCACAT
CCTGCTTGGCCTGTCTGGTGTGCGAGCCATCCTTCAGTCTCTGCTACTCTTTTTCTGTCCAGAAAGCCCC
AGATACCTTTACATCAAGTTAGATGAGGAAGTCAAAGCAAACAAGCTTGAAAAGACTCAGAGGATATG
ATGATGTCACCAAAGATATTAATGAAATGAGAAAAGAAAAGAGAAGAAGCATCGAGTGAGCAGAAAGTCTC
TATAATTCAGCTCTTACCAATTCAGCTACCGACAGCCTATTCTAGTGGCACTGATGCTGCATGTGGCT
CAGCAATTTCCGGAATCAATGGCATTCTTTACTACTCAACCAGCATTCTTTCAGACGGCTGGTATCAGCA
AACCTGTTTATGCAACCATTTGGAGTTGGCGCTGTAACATGGTTTTCACTGCTGTCTCTGTATTCTTGT
GGAGAAGGCAGGGCGACGTTCTCTCTTTCTAATTGGAATGAGTGGGATGTTTGTGGTCCATCTTCATG
TCAGTGGGACTTGTGCTGCTGAATAAGTCTCTTGGATGAGTTATGTGAGCATGATAGCCATCTTCTCT
TTGTGAGCTTCTTTGAAATTGGCCAGGCCGATCCCTGGTTCATGGTGGCTGAGTTTTTCAGTCAAGG
ACCACGTCCTGCTGCTTTAGCAATAGCTGCATTACGCAATTGGACCTGCAATTTCAATTGAGCTCTGTGT
TTCCAGTACATTGCGGACTTCTGTGGACCTTATGTGTTTTCTCTTTGCTGGAGTGCTCCTGGCCTTTA
CCCTGTTACATTTTTTAAAGTTCAGAAACAAAGGAAAGTCTTTTGGAGAAATTGCTGCAGAATTCCA
AAAGAAGAGTGGCTCAGCCACAGGCCAAAAGCTGCTGTAGAAATGAAATTCCTAGGAGCTACAGAGACT
GTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237649 representing NM_001278659
 Red=Cloning site Green=Tags(s)

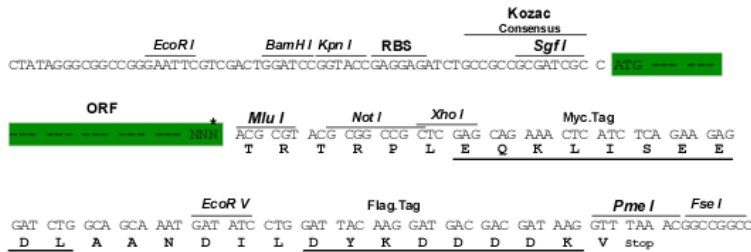
MYIGEIAPTALRGALGTFHQLAIVTGILISQIIGLEFILGNYDLWHILLGLSGVRAILQSLLLFFCPESP
 RYLVIKLDDEEVKAKQSLKRLRGYDDVTKDINEMRKEEEASSEQKVSIIQLFTNSSYRQPILVALMLHVA
 QQFSGINGIFYYSTIFQTAGISKPVYATIGVGAVNMVFTAVSVFLVEKAGRRSLFLIGMSGMFVCAIFM
 SVGLVLLNKFWSMSYVSMIAIFLVSFFEIGPGPIPWFVMAEFFSQGPRPAALAIAAFSNWTCNFIVALC
 FQYIADFCGPYVFFLFAVLLAFTLFTFFKVPETKGKSFEEIAAEFQKKSGSAHRPKAAVEMKFLGATET
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Restriction Sites: SgfI-MluI

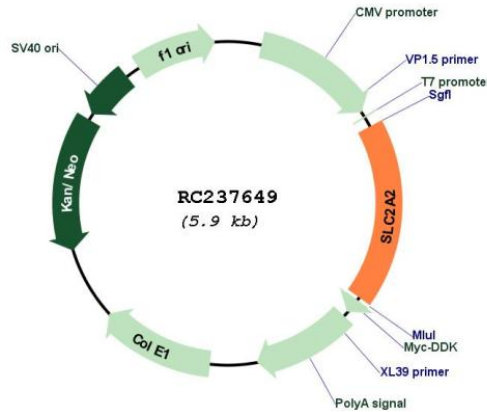
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001278659

ORF Size:	1053 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:	<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.
RefSeq:	NM_001278659.2
RefSeq Size:	3314 bp
RefSeq ORF:	1056 bp
Locus ID:	6514
UniProt ID:	P11168
Cytogenetics:	3q26.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Maturity onset diabetes of the young, Type II diabetes mellitus
MW:	39.5 kDa
Gene Summary:	This gene encodes an integral plasma membrane glycoprotein of the liver, islet beta cells, intestine, and kidney epithelium. The encoded protein mediates facilitated bidirectional glucose transport. Because of its low affinity for glucose, it has been suggested as a glucose sensor. Mutations in this gene are associated with susceptibility to diseases, including Fanconi-Bickel syndrome and noninsulin-dependent diabetes mellitus (NIDDM). Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]