

Product datasheet for **RG237649**

SLC2A2 (NM_001278659) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC2A2 (NM_001278659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC2A2
Synonyms:	GLUT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237649 representing NM_001278659. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTATATCGGTGAAATTGCTCCAACCGCTCTCAGGGGAGCACTTGGCACTTTTCATCAGCTGGCCATC
GTCACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTTATCTTGGCAATTATGATCTGTGGCAC
ATCCTGCTTGGCCTGTCTGGTGTGCGAGCCATCCTTCAGTCTCTGCTACTCTTTTCTGTCCAGAAAAGC
CCCAGATACCTTTACATCAAGTTAGATGAGGAAGTCAAAGCAAACAAAGCTTAAAAGACTCAGAGGA
TATGATGATGTCACCAAAGATATTAATGAAATGAGAAAAGAAAGAGAAGAAGCATCGAGTGAGCAGAAA
GTCTCTATAATTCAGCTTTCACCAATTCAGCTACCGACAGCCTATTCTAGTGGCACTGATGCTGCAT
GTGGCTCAGCAATTTCCGGAATCAATGGCATTCTTTACTACTCAACCAGCATTCTTCAGACGGCTGGT
ATCAGCAAACCTGTTTATGCAACCAATTGGAGTTGGCGCTGTAAACATGGTTTTCACTGCTGTCTCTGTA
TTCTTGTGGAGAAGGCAGGGCGACGTTCTCTCTTCTAATTGGAATGAGTGGGATGTTTGTGGTCC
ATCTTCATGTCAGTGGGACTTGTGCTGCTGAATAAGTTCTCTTGGATGAGTTATGTGAGCATGATAGCC
ATCTTCTCTTTGTCAGCTTCTTTGAAATTGGGCCAGGCCGATCCCCTGGTTCATGGTGGCTGAGTTT
TTCAGTCAAGGACCACGTCCTGCTGCTTAGCAATAGCTGCATTCAGCAATTGGACCTGCAATTTTCATT
GTAGCTCTGTGTTCCAGTACATTGCGGACTTCTGTGGACCTTATGTGTTTTTCTCTTTGCTGGAGTG
CTCCTGGCCTTTACCTGTTACATTTTTTAAAGTTCCAGAAACAAAGGAAAGCTTTTGAGGAAATT
GCTGCAGAATTCCAAAAGAAGAGTGGCTCAGCCACAGGCCAAAAGCTGCTGTAGAAATGAAATTCCTA
GGAGCTACAGAGACTGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237649
 Blue=ORF Red=Cloning site Green=Tag(s)

MYIGEIAPTALRGALGTFHQLAIVTGILISQIIGLEFILGNYDLWHILLGLSGVRAILQSLLLFFCPES
 PRYLKIKLDEEVKAKQSLKRLRGYDDVTKDINEMRKEREASSEQKVSIIQLFTNSSYRQPILVALMLH
 VAQQFSGINGIFYSTSI FQTAGISKPVYATIGVAVNMVFTAVSVFLVEKAGRRSLFLIGMSGMFVCA
 IFMSVGLVLLNKFWSMSVYSMIAIFLVSFFEIGPGPIPWFMAEFFSQGPRPAALAAIAAFSNWTCNFI
 VALCFQYIADF CGPYVFFL FAGVLLAFTLFTFFKVPETKGSFEEIAAEFQKKS GSAHRPKAAVEMKFL
 GATETV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

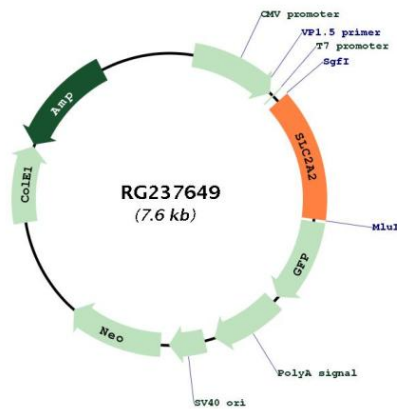
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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]

Product images:



Circular map for RG237649