

Product datasheet for **SC335543**

SLC2A2 (NM_001278659) Human Untagged Clone

Product data:

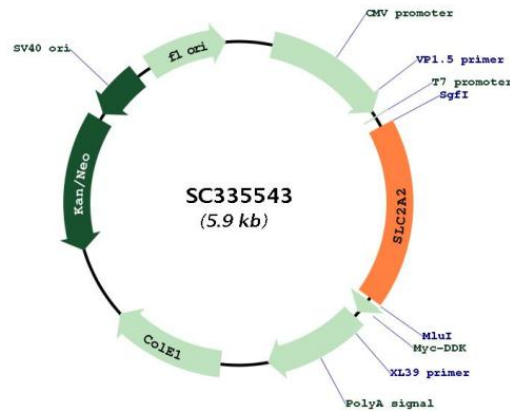
Product Type:	Expression Plasmids
Product Name:	SLC2A2 (NM_001278659) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC2A2
Synonyms:	GLUT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335543 representing NM_001278659. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTATATCGGTGAAATTGCTCCAACCGCTCTCAGGGGAGCACTTGGCACTTTTCATCAGCTGGCCATC
GTCACGGGCATTCTTATTAGTCAGATTATTGGTCTTGAATTTATCTTGGGCAATTATGATCTGTGGCAC
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CCCAGATACCTTTACATCAAGTTAGATGAGGAAGTCAAAGCAAACAAAGCTTAAAAGACTCAGAGGA
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TTCTTGTGGAGAAGGCAGGGCGACGTTCTCTCTTCTAATTGGAATGAGTGGGATGTTTGTGGTGGCC
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GCTGCAGAATTCCAAAAGAAAGAGTGGCTCAGCCACAGGCCAAAAGCTGCTGTAGAAATGAAATTCCTA
GGAGCTACAGAGACTGTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001278659

Insert Size: 1056 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001278659.1](#)

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:	39.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks an alternate exon in the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 3 which is shorter at the N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments and experimental data in the literature (PMID: 11978637).</p>