

Product datasheet for **SC303267**

SGLT2 (SLC5A2) (NM_003041) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGLT2 (SLC5A2) (NM_003041) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGLT2
Synonyms:	SGLT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_003041 edited
ATGGAGGAGCACACAGAGGCAGGCTCGGCACCAGAGATGGGGGCCAGAAAGGCCCTGATT
GACAATCTGTGCTGACATCCTAGTCATTGCTGCATATTTCTGTGGTCATTGGCGTTGGC
TTGTGGTCCATGTGCAGAACCAAGAGGCACTGTGGCGGCTACTTCTGGCAGGACGC
AGCATGGTGTGGTGGCCGTTGGGGCTCTCTTTCGCCAGCAACATCGGCAGTGGCCAC
TTTGTGGGCTGGCAGGACTGGCGCTGCAAGTGGCTTGGCTGTTGCTGGATTGAGTGG
AATGCGCTCTTCGTGGTGTCTACTGGGCTGGCTGTTTGCACCCGTGTACCTGACAGCG
GGGGTCATCACGATGCCACAGTACCTGCGCAAGCGCTTCGGCGGCCGCCGATCCGCCTC
TACCTGTCTGTGCTCTCCCTTTTCTGTACATCTTACCACAGATCTCAGTGGACATGTTT
TCCGGAGCTGATTATCCAGCAGGCTCTGGGCTGGAACATCTATGCCTCCGTCATCGCG
CTTCTGGGCATCACCATGATTTACACGGTGACAGGAGGGCTGGCCGCGCTGATGTACAG
GACACGGTACAGACCTTCGTCTTCTGGGGGGCGCTGCATCCTCATGGTTACGCCTTC
CACGAGGTGGGCGGTATTCGGGTCTCTCGACAAATACCTGGGAGCAGCGACTTCGCTG
ACGGTGTCCGAGGATCCAGCCGTGGGAAACATCTCCAGCTTCTGCTATCGACCCCGCCC
GACTCCTACCACCTGCTCCGGCACCCCGTGACCCGGGATCTGCCGTGGCCCGCGTGTCT
CTCGGACTCACAATCGTCTCGGGCTGGTACTGGTGCAGCGACCAGGTATCGTGCAGCGC
TGCTGGCCGGGAAGAGCCTGACCCACATCAAGCGGGGCTGCATCCTGTGTGGGTACCTG
AAGCTGACGCCCATGTTTCTCATGGTCATGCCAGGCATGATCAGCCGATTCTGTACCCA
GACGAGGTGGCGTGCCTGGTGCCTGAGGTGTGCAGGCGGTGTGCCGCACGGAGGTGGGC
TGCTCAAACATCGCTACCCGCGGCTCGTGTGAAGCTCATGCCAACGGTCTGCCGCGGA
CTCATGCTGGCGGTATGCTGGCCGCGCTCATGTCTCGCTGGCCTCCATCTTCAACAGC
AGCAGCACGCTTTCACCATGGACATCTACACGCGCTGCGGCCACGCGCCGGCGACCCG
GAGCTGTGCTGGTGGGACGGCTCTGGGTGGTGTTCATCGTGGTAGTGTGCGGTGGCCTGG
CTTCCCGTGGTGCAGGCGCACAGGCGGGCAGCTCTTCGATTACATCCAGGCAGTCTCT
AGCTACCTGGCACCGCCGCTGTCCGCGCTTTCGTGCTGGCGCTTTCGTGCCGCGGTT
AATGAGCAGGGCGCCTTCTGGGACTCATCGGGGCTGTGATGGGCTGGCACGCTG
ATTCCCGAGTTCTCCTTCGGCTCGGGCAGCTGTGTGCAGCCCTCGGCGTGGCCAGTTTC
CTCTGCGGCGTGCCTACTTACTTTCGCCATTGTGCTGTTCTTCTGCTTGGCCTCCTC
ACCCTCACGGTCTCCCTGTGCACCGCGCCATCCCCAGAAAGCACCTCCACCGCCTGGTC
TTCAGTCTCCGGCATAGCAAGGAGGAACGGGAGGACCTGGATGCTGATGAGCAGCAAGGC
TCCTCACTCCCTGTACAGAATGGGTGCCAGAGAGTGCCATGGAGATGAATGAGCCCGAG
GCCCGGACCAAGCCTCTTCGCCAGTGCCTGCTCTGGTTTTGTGGAATGAGCAGAGGT
GGGGTGGGCACTCTCCGCCCTTACCCAGGAGGAGGCAGCGGCAGCAGCCAGGCGGCTG
GAGGACATCAGCGAGGACCCGAGCTGGGCCGTGGTCAACCTCAATGCCCTGCTCATG
ATGGCAGTGGCCGTGTTCTCTGGGCTTCTATGCCTAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003041 unedited TCAACTGTATACGACTCCTATAGGGCGGCCGCGATCTCTCGAGCTCGGTACCTCGCGAA TGCATCTAGATATCGGATCCCGACACGAATTCATGGAGGAGCACACAGAGGCAGGCTCGG CACCAGAGATGGGGGCCAGAAGGCCCTGATTGACAATCTGTGCTGACATCCTAGTCATTG CTGCATATTTCTGTGCTGGTCATTGGCGTTGGCTTGTGGTCCATGTGCAGAACCAACAGAG GCACTGTGGGCGGCTACTTCTGGCAGGACGCAGCATGGTGTGGTGGCCGTTGGGGCT CTCTCTTCGCCAGCAACATCGGCAGTGGCCACTTGTGGGCTGGCAGGACTGGCGCTG CAAGTGGCTTGGCTGTTGCTGGATTGAGTGGAAATGCGCTCTTCGTGGTGTGCTACTGG GCTGGCTGTTTGCACCCGTGTACCTGACAGCGGGGTGATCACGATGCCACAGTACCTGC GCAAGCGCTTCGGCGGCCCGCATCCGCCTCTACCTGTCTGTGCTCTCCCTTTCTGT ACATCTTCACCAAGATCTCAGTGGACATGTTCTCCGGAGCTGATTATCCAGCAGGCTC TGGGCTGGAACATCTATGCCTCCGTCATCGCGCTTCTGGGCATCACCATGATTTACAGG TGACAGGAGGGCTGGCCGCGCTGATGTACACGGACCGGTACAGACCTTCGTCATTCTGG GGGGCGCTGCATCCTCATGGGTTACGCCTTCCACGAGTGGGCGGATTCGGGTCTCTT CGACAAATACCTGGGAGCAGCGACTTCGCTGACGGTGTCCGAGGATCCAGCCGTGGGAAA CATCTCCAGCTTCTGCTATCGACCCCGCCGACTCTACCACCTGCTCCGCACCCCGTG ACCGGGATCTGCCGTGGCCCGCCGCTGCTCCCTCGGACTTCAC
Restriction Sites:	Please inquire
ACCN:	NM_003041
Insert Size:	2000 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<u>NM_003041.2</u> , <u>NP_003032.1</u>
RefSeq Size:	2271 bp
RefSeq ORF:	2019 bp
Locus ID:	6524
UniProt ID:	<u>P31639</u>
Cytogenetics:	16p11.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the sodium glucose cotransporter family which are sodium-dependent glucose transport proteins. The encoded protein is the major cotransporter involved in glucose reabsorption in the kidney. Mutations in this gene are associated with renal glucosuria. Two transcript variants, one protein-coding and one not, have been found for this gene. [provided by RefSeq, Feb 2015]

Transcript Variant: This variant (1) is the longer, protein-coding transcript.