

Product datasheet for **SC314192**

SLC5A8 (NM_145913) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC5A8 (NM_145913) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC5A8
Synonyms:	AIT; SMCT; SMCT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_145913 edited
 GCAGGGCTCAGGCGACCGTGCAGCCATGGACACGCCACGGGGCATCGGCACCTTCGTGGT
 GTGGGACTACGTGGTGTTCGCGGGCATGCTGGTCATCTCGGCCGCCATCGGCATCTACTA
 CGCCTTCGCTGGGGGCGGCCAGCAGACCTCCAAGGACTTCCTGATGGGCGGCCGAGAAT
 GACCGCAGTGCCCGTGGCGCTGTCCCTACCGCTAGCTTCATGTCAGCCGTCAGTGTCT
 GGGCACCCTCCGAGGTCTACCGTTTTGGGGCATTATTTAGCATCTTTGCCTTCACCTA
 CTTCTTTGTGGTGGTCATCAGCGCGAGGTCTTCTCCCGGTGTTCTACAACTGGGAAT
 TACCAGCACCTACGAGTATTTAGAACTTCGATTTAACAAATGTGTTCTGTCTGTGGAAC
 AGTCTCTTCATTGTTCAAACAATTCTGTATACTGGAATTGTTATTTATGCCCTGCCCT
 GGCTTTGAATCAAGTCACAGGATTTGATCTGTGGGGCGCGGTAGTGGCAACGGGGGTGGT
 CTGCACATTCTACTGCACACTGGGTGGTCTTAAAGCAGTTATCTGGACAGATGTTTTTCA
 AGTTGGGATCATGGTGGCTGGATTTGCATCCGTGATTATACAGGCTGTGGTGATGCAAGG
 TGAATCAGCACTATTTAAATGATGCCTATGATGGTGAAGATTAAATTTCTGGAATTT
 TAATCCTAACCTTTGCAAAGACACACCTTCTGGACAATTATTATAGGAGGGACCTTCAC
 ATGGACCAGCATCTACGGTGTCAACCAATCCCAGGTGCAGAGATATATTTCTGTAAAAG
 CAGATTCAGGCAAACTGTCTCTCTACATCAATCTTGTGGGACTCTGGGCAATCCTCAC
 ATGCTCAGTGTGTTGTGGGCTCGCCCTATATTCCAGGTACCATGACTGTGATCCTTGGAC
 AGCCAAGAAAGTGTCTGCACCAGACAGCTCATGCCTATTTGGTACTGGACATTCTGCA
 AGATTATCCAGGACTTCTGGACTTTTTGTGGCCTGTGCTTACAGTGGGACATTAAGCAC
 AGTGTCTCCAGTATTAATGCCTTAGCAGCAGTAAGTGTGAAGATCTAATCAAACCTTA
 CTTCAGATCGCTCTCAGAAAGGTCTCTGTCTTGGATTTCCCAAGGAATGAGTGTGGTGTA
 TGGAGCCCTGTGATTGGAATGGCTGCGCTGGCGTCACCTATGGGAGCTTTGTTGAGGC
 AGCACTCAGCGTATTTGGTATGGTTGGTGGACCACTTATGGGCCTGTTGCTTTGGGCAT
 TTTGGTTCCCTTTGCCAACTCAATTGGAGCACTTGTGGTCTGATGGCTGGATTTGCCAT
 TTCTCTATGGGTTGGAATTGGAGCTCAAATATATCCTCCACTTCTGAGAGAACATTGCC
 ATTGCACCTTGATATCAAGGCTGTAACAGCACCTACAATGAGACAAATTTGATGACAAC
 CACAGAAATGCCATTTACTACTAGTGTGTTTTCAAATATACAATGTTCAAAGGACTCCACT
 GATGGATAACTGGTATTCTTTATCATATCTGTACTTCAGCACTGTTGGAATTTGGTAAC
 ATTATTAGTGGGATACTTGTCACTTTATCAACAGGAGGAAGAAAACAGAACTTAGACCC
 CAGATATATACTAACAAAGAGGACTTTTTATCCAATTTTGATATTTTAAAGAAAAGAA
 GCATGTTTTGAGCTATAAATCACATCCAGTGGAAGATGGTGAAGTATAATCCTGCTTT
 CAACCACATTGAATTGAAGTCAAGTCAAGTGGCAAGAGCAATGGGACTCGTTTGTGAAG
 CTGCTCTGATACTAGATATCCTTAAATGATGTTTCAATTTTATATGTTTTCTAAGATAAT
 TGGATCAGGTTTTCTTTGTGTGTGTGTGTGTGTGTATCATGAGTGTGTTGGGGGATAA
 GTTTTTGTTAAACAAAGTCTGGACTATCTTCATTTACTACATCATTAATTGATGTTACT
 CTGGAGTTTAGAATCTGGCATTGACATTTCCCTCTCTTTCTTTATTTTCGATGAAGCTA
 TAATTGTGAAAATTGTAACATAGATGCTGAAAGGCTAATACACATATGCACATGT
 ATTTGATTGTCAAAGGTATATCTTAAATTTGGGTATTATTGAAAATATTTCCATGCCT
 TGGTGCTAGCATATAAGTTTGAAGTTTGCCAACATCACAATTCATCTTGAAGAGAGCTT
 TTTCCCTCCTACCACATACACCATTC

Restriction Sites: Please inquire

ACCN: NM_145913

Insert Size: 2300 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 ORF of this clone has been fully sequenced and found to be a good match to NM_145913.2 except for two SNPs.
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:	<u>NM_145913.2, NP_666018.2</u>
RefSeq Size:	3983 bp
RefSeq ORF:	1833 bp
Locus ID:	160728
UniProt ID:	<u>Q8N695</u>
Cytogenetics:	12q23.1-q23.2
Domains:	SSF
Protein Families:	Transmembrane
Gene Summary:	SLC5A8 has been shown to transport iodide by a passive mechanism (Rodriguez et al., 2002 [PubMed 12107270]) and monocarboxylates and short-chain fatty acids by a sodium-coupled mechanism (Gopal et al., 2004 [PubMed 15322102]). In kidney, SLC5A8 functions as a high-affinity sodium-coupled lactate transporter involved in reabsorption of lactate and maintenance of blood lactate levels (Thangaraju et al., 2006 [PubMed 16873376]).[supplied by OMIM, Dec 2008]