

Product datasheet for **SC122800**

SLC7A9 (NM_014270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC7A9 (NM_014270) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC7A9
Synonyms:	BAT1; CSNU3
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_014270 edited
 CCATTTCTAGGGTTGGACCGAGCAGGCACGGGCGGTGAGCTGGGCCGAGCTCCTCCGGC
 TCTGCAGGGTCACGGAGGAAGCCAGTCCCCTAGTCCAGGCCGAGCTTGCACTTGCGTCT
 TGTCTGCTGCTGCTGAACCAAGATTTAGCTGTGCGCCCTCCTTGCACTCCTGGAACCA
 GCAGGAGGAAACATGGGGGATACTGGCCTGAGAAAGCGGAGAGAGGATGAGAAGTCGATC
 CAGAGCCAAGAGCCTAAGACCACAGTCTCCAAAAGGAGCTGGGCCTCATCAGTGGCATC
 TCCATCATCGTGGGCACCATCATTGGCTCTGGGATCTTCGTTTCCCCCAAGTCTGTGCTC
 AGCAACACGGAAGCTGTGGGGCCCTGCCTCATCATATGGGCGGCTTGCGGGGTCTCGCG
 ACGCTGGGTGCCCTGTGCTTTGCGGAGCTTGGCACAATGATCACCAAGTCAGGGGAGAG
 TATCCCTACCTGATGGAGGCTACGGGCCCATCCCCGCCTACCTCTTCTCCTGGGCCAGC
 CTGATCGTCATTAAGCCACGTCTTCGCCATCATCTGCCTCAGCTTCTCCGAGTATGTG
 TGTGCGCCCTTCTATGTGGGCTGCAAGCCTCCTCAAATCGTTGTGAAATGCCTGGCCGCC
 GCCGCCATCTTGTTTCATCTGCAGTGAACCTACTGAGCGTGGGCTGGGAAGCTACGTC
 CAGAACATCTTACCGCGGCCAAGCTGGTGATCGTGGCCATCATCATCATCAGCGGGCTG
 GTGCTCCTGGCCCAAGGAAACACAAAGAATTTTGATAATTCTTTTCGAGGGCGCCAGCTG
 TCTGTGGGAGCCATCAGCTGGCGTTTTACAATGGAAGTCTGGGCTATGATGGATGGAAT
 CAACTCAATTACATCACAGAAGAACTTAGAAACCTTACAGAAACCTGCCTTTGGCCATT
 ATCATCGGGATCCCCCTGGTGACGGCGTGTACATCCTCATGAACGTGTCTACTTCACC
 GTGATGACTGCCACCGAACTCCTGCAGTCCCAGGCGGTGGCTGTGACATTTGGTGACCGT
 GTTCTCTATCCTGCTTCTTGGATCGTTCACATTTTTGTGGCATTTTCAACCATCGTGCT
 GCTAACGGGACCTGCTTCACAGCGGGCAGACTCATTTACGTGGCGGGCCGGGAGGGTCAC
 ATGCTCAAAGTGCTTTCTTACATCAGCGTCAGGCGCCTCACTCCAGCCCCGCCATCATC
 TTTTATGGTATCATAGCAACGATTTATATCATCCCTGGTGACATAAACTCGTTAGTCAAT
 TATTTTCAGCTTTGCCGCATGGCTGTTTTATGGCCTGACGATTCTAGGACTCATCGTGATG
 AGATTTACAAGGAAAGAGCTGGAAGGCCTATCAAGGTGCCCGTAGTCATTCCCCTCTTG
 ATGACACTCATCTCTGTGTTTTTGGTTCTGGCTCCAATCATCAGCAAGCCACCTGGGAG
 TACCTCTACTGTGTGCTGTTTATTAAGCGGCCTTTTATTTTACTTCTGTGTTGTCCAC
 TACAAGTTTGGATGGGCTCAGAAAATCTCAAAGCCGATTACCATGCACCTTCAGATGCTA
 ATGGAAGTGGTCCACCGGAGGAAGACCCTGAGTAACAAGCTCCGTCTCTGTAGCCAAG
 TCAGCTGAATTTATTTTCTTAAGCAATATTTGTGGTTATTTCTTCTTTTTTTCTTACGA
 ATAAAATATACTCAGATGTTAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_014270 unedited
 NNAAGGTTCAAAATTTGTAATACGACTCACTATAGNNGGCGGCCGAATTCGCCATTAC
 GGCCGGGGCCATTTCTAGGGTTGGACCGAGCAGGCACGGGCGGTGAGCTGGGCCGAGCT
 CCTCCGGCTCTGCAGGGTCACGGAGGAAGCCAGTCCCCTAGTCCAGGCCGAGCTTGAC
 TTGCGTCTTGCTGCTGCTGCTGAACCAAGATTTAGCTGTGCGCCCTCCTTGAGTCTCC
 TGGAACACAGCAGGAGGAAACATGGGGGATACTGGCCTGAGAAAGCGGAGAGAGGATGAGA
 AGTCGATCCAGAGCCAAGAGCCTAAGACCACAGTCTCCAAAAGGAGCTGGGCCTCATCA
 GTGGCATCTCCATCATCGTGGGCACCATCATTGGCTCTGGGATCTTCGTTTCCCCAAGT
 CTGTGCTCAGCAACACGGAAGCTGTGGGGCCCTGCCTCATCATATGGGCGGCTTGCGGG
 TCCTCGGACGCTGGGTGCCCTGTGCTTTGCGGAGCTTGGCACAATGATCACCAAGTCAG
 GGGGAGAGTATCCCTACCTGATGGAGGCCTACGGGCCCATCCCCGCTACCTCTTCTCCT
 GGGCCAGCCTGATCGTCATTAAGCCACGTCCTTCGCCATCATCTGCCTCAGCTTCTCCG
 AGTATGTGTGTGCGCCCTTCTATGTGGGCTGCAAGCCTCCTCAAATCGTTGTGAAATGCC
 TGCCCGCCGCCCATCTTGTTTCATCTCGACAGTGAACCTCACTGAGCGTGGGCTGGGAA
 GCTACGTCCAGAACATCTTACCGCGGCCAAGCTGGTGATCGTGGCCATCATCATCATCA
 GCGGGCTGGTGCTNCTGGCCAGGNAACACANAGAATTTTGATATTCTTTCAGGGCGCCC
 AGCTGTCTGTGGGAGCCTC

Restriction Sites: Please inquire
ACCN: NM_014270

Insert Size:	1790 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:	<u>NM_014270.3, NP_055085.1</u>
RefSeq Size:	1790 bp
RefSeq ORF:	1464 bp
Locus ID:	11136
UniProt ID:	<u>P82251</u>
Cytogenetics:	19q13.11
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a protein that belongs to a family of light subunits of amino acid transporters. This protein plays a role in the high-affinity and sodium-independent transport of cystine and neutral and dibasic amino acids, and appears to function in the reabsorption of cystine in the kidney tubule. Mutations in this gene cause non-type I cystinuria, a disease that leads to cystine stones in the urinary system due to impaired transport of cystine and dibasic amino acids. Alternate transcript variants, which encode the same protein, have been found for this gene. [provided by RefSeq, Jul 2011] Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.