

Product datasheet for **SC100741**

SLC25A29 (NM_152333) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A29 (NM_152333) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A29
Synonyms:	C14orf69; CACL; ORNT3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100741 sequence for NM_152333 edited (data generated by NextGen Sequencing) <pre> ATGGGGCTCACCTTCATCAACGCGCTGGTGTTCGGGGTGCAGGGCAACACCTCCGGGCC CTGGGCCACGACTCGCCCTCAACCAGTTCCTGGCAGGTGCGGCGCGGGCGCCATCCAG TGCGTCATCTGCTGCCCCATGGAGCTGGCCAAGACGCGGCTGCAGCTGCAGGACGCGGGC CCAGCGCGCACCTACAAGGGCTCGCTGGACTGCCTCGCGCAGATCTACGGGCACGAGGGT CTGCGTGGCGTCAACCGGGGCGATGGTGTCCACGTTGCTGCGTGAGACGCCAGCTTCGGC GTCTACTTCCTCACCTATGACGCTCTACGCGGGCGCTGGGCTGCGAGCCGGGCGACCGC CTGCTGGTGCCCAAGCTGCTGTTGGCGGGCGGTACGTAGGCATCGTGTCTGGCTCTCT ACCTATCCTGTGGACGTGGTCAAGTCGCGGCTGCAGGCGGACGGACTGCGGGGCGCCCCG CGTACCGCGGCATCCTGGACTGCGTGACACAGAGCTACCGCGCCGAGGGCTGGCGCGTC TTCACACGGGGGCTGGCGTCCACGCTGCTGCGCGCCTTCCCCGTCAACGCTGCCACCTTC GCCACCGTCACGGTGGTGTCTCACCTACGCGCGCGGCGAGGAGGCCGGGCCGAGGGCGAG GCTGTGCCCGCCGCCCTGCGGGGCTGCCCTGGCGCAGCCCTCCAGCCTGTGA </pre>

Clone variation with respect to NM_152333.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152333 unedited
 TTTACAACAATATGTAATACGAACCTACTATAGGGCGGCCGGAATTCGCACGAGGCCCA
 CCCGGGCGCTGCCGGCAGGCACGAGGGGCGGGCGCGGCCCGAGGTGAGGGACCGCGG
 GCCGGAGGGATCCAGCGAGTCAGCTGCCGCCGAGGGACCAGCGCGGGTCTAGCTGCTGC
 CGCCATCCCCACCATCCCTGACCGCGCTGCCCGGGTCCGCGCCAGGAGGAGCGGCCAG
 GCCGAGCCCCGGCACCAGCGCGCTCGGGGACCCGACGGCGCCAGCCCGCGAGGGGCTT
 CAGGGGAGGACGAGGAGGAAAGCGCGCTCGCCGGGGACCCGGCCATGGCGCTGACTT
 CTTGGCTGGATGCGCGGGGGTGTGGCAGGCGTCTTGTGGGACACCCGTTTGACACGGT
 CAAGGTACGGCTTCAGGTCCAGAGCGTGGAGAAGCCTCAGTACCGCGGGACGTTGCACTG
 CTTCAAGTCCATCATCAAGCAAGAGAGCGTGTGGGCTGTACAAGGGCTGGGCTCGCC
 GCTCATGGGGCTCACCTTCATCAACGCGCTGGTGTTCGGGGTGCAGGGCAACACCCTCCG
 GGCCCTGGGCCACGACTCGCCCTCAACCAGTTCCTGGCAGGTGCGGGCGGGCGCCAT
 CCAGTGCCTCATCTGCTGCCCCATGGAGCTTGCCAAGACGCGGCTGCAGTGCAGGACGC
 GGGCCCAGCGCGACCTACAAGGGCTCGCTGGACTGCCTCGCGCAGATCTACGGGACGA
 NGGTCTGCGTGGCGTTCACCGGGCATGGTGTTCACGTTGCTGCGTGAGACGCCAGCTT
 CGGCGTCTACTTCTAACCCTATGACGCTTTACCGGGCGCTGGGCTGCGAGCCCGCGA
 CCGCTGCTGTGCCCAAGCTGCTGTTGGCGGCCGCACTTAAGCATCGTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152333 unedited
 GGACGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAAAACAAANAACA
 CTTTATTCCTTGACAGTTTCTGTACAGCGACACCAGGCTGTGCAAAGCCCAGTGTGTC
 TTCAGTACGACATTCCCAGGACGCTGGTGCAGCCCTCCTCTGCCCCAGGCCCAACT
 AGCCACCCTGTGCCACTAGCAGGCCCTGTGCCTTACAGGGATGAAGCCCTGGCACTG
 AGAATGCCTGGGAGGCACCGTTTGTGGGAGCAGAGGACTGACCTTTGGCTTCTTGT
 GGCTGGAGGTGTTCCAGGCTGGTGAAGGGGTCCATACTGTTCTCTGCTGAGCCCTCTG
 CACACTTTGGGGATCCTGGCTGGCGGTGGTAGGTGGGCCGAGACTCAGTTGTCCGTCA
 GCTGGCCATGTCCCCATTTATGGACAGGCAGCCTGAGGCCAGAGGCGGAAGGATTTCT
 CCTTGCCACAGCTGCATCACACTGAACTGTCCAGACCTCCACCCTGGCTGTTTGCTC
 CCCACCCTAGTCCCGCAGGCTGATATGGTGCCTCCAGCAGACTCCATGGCTTCCGNGAG
 GTGCAGGGTCCCCAGTTACCCCTCCAGCANGAGTGGCAGCAGCTGGGGTACCCCTAGCAG
 TGGCATGTGGAGAAGCTGGNGTATGCANNAGATCCAGTTCTGTGACACCAGGAAGCACAC
 AAGTTTTTCTCTGCTCCCTACACAGACCAGAGGGTGGCCCCACACCCCCCGGTGGAGGA
 GTGTGGAGTTAGAAGTCCTGGTTGGCCCTGGTTGGCCTCAAAGACCCCGGAGCAGCC
 TGCAGGCAGGAGCCATGACCTGGCCGAATCCCAAAAGGGCTGAGTGTCTGCCAANTTC
 CAGGTAACGGGCAATGGCTACACAGGCAGGCTGGTGTGGTGGAAAATCCGAACCTGA
 CCTCAAGGGGGCTGAGG

Restriction Sites:

NotI-NotI

ACCN:

NM_152333

Insert Size:

2500 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_152333.1, NP_689546.1</u>
RefSeq Size:	2240 bp
RefSeq ORF:	714 bp
Locus ID:	123096
UniProt ID:	<u>Q8N8R3</u>
Cytogenetics:	14q32.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a nuclear-encoded mitochondrial protein that is a member of the large family of solute carrier family 25 (SLC25) mitochondrial transporters. The members of this superfamily are involved in numerous metabolic pathways and cell functions. This gene product was previously reported to be a mitochondrial carnitine-acylcarnitine-like (CACL) translocase (PMID:128829710) or an ornithine transporter (designated ORNT3, PMID:19287344), however, a recent study characterized the main role of this protein as a mitochondrial transporter of basic amino acids, with a preference for arginine and lysine (PMID:24652292). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2014] Transcript Variant: This variant (4) lacks an internal exon that causes a frame-shift and results in the use of an in-frame downstream start codon compared to variant 1. The resulting isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2-4 encode the same isoform.