

## Product datasheet for **SC334709**

### SLC25A29 (NM\_001291813) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A29 (NM_001291813) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A29
Synonyms:	C14orf69; CACL; ORNT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001291813, the custom clone sequence may differ by one or more nucleotides

ATGGGGCTCACCTTCATCAACGCGCTGGTGTTCGGGGTGACGGGCAACACCCTCCGGGCCCTGGGCCACG  
 ACTCGCCCTCAACCAGTTCCTGGCAGGTGCGGCGGGCGCCATCCAGTGCGTCATCTGCTGCCCCAT  
 GGAGCTGGCCAAGACGCGGCTGCAGTGCAGGACGCGGGCCAGCGGCACCTACAAGGGCTCGCTGGAC  
 TGCCTCGCGCAGATCTACGGGCACGAGGGTCTGCGTGCGGTCAACCGGGCATGGTGTCCACGTTGCTGC  
 GTGAGACGCCAGCTTCGGCGTCTACTTCCTCACCTATGACGCTCTCACGCGGGCGCTGGGCTGCGAGCC  
 GGGCGACCGCTGCTGGTGCCCAAGCTGCTGTTGGCGGGCGGTACGTAGGCATCGTGTCTGCTCTCT  
 ACCTATCCTGTGGACGTGGTCAAGTCGCGGCTGCAGGCGGACGGACTGCGGGCGCCCCGCGCTACCGCG  
 GCATCCTGGACTGCGTGCACCAGAGCTACCGCGCCGAGGGCTGGCGCGTCTTACACGGGGCTGGCGTC  
 CACGCTGCTGCGCGCTTCCCCGTCAACGCTGCCACCTTCGCGACCGTCACGGTGGTGCTACCTACGCG  
 CGCGGCGAGGAGCCGGGCCGAGGGCGAGGCTGTGCCCGCCGCCCTGCGGGGCTGCCCTGGCGCAGC  
 CCTCCAGCCTGTGA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001291813
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).


[View online »](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001291813.1, NP_001278742.1</u>
<b>RefSeq Size:</b>	2785 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	123096
<b>UniProt ID:</b>	<u>Q8N8R3</u>
<b>Cytogenetics:</b>	14q32.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) contains an additional 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.</p>