

## Product datasheet for SC310895

### SLC25A29 (NM\_001039355) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A29 (NM_001039355) 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:	>SC310895 representing NM_001039355. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGCGCTGGACTTCTTGGCTGGATGCGCGGGGGTGTGGCAGGCGTGCTTGTGGACACCCGTTTGAC  
 ACGGTCAAGGTACGGCTTCAGGTCCAGAGCGTGGAGAAGCCTCAGTACCGCGGGACGTTGCACTGCTTC  
 AAGTCCATCATCAAGCAAGAGAGCGTGCTGGGCCTGTACAAGGGCTGGGCTCGCCGCTCATGGGCTC  
 ACCTTCATCAACGCGCTGGTGTTTCGGGGTGCAGGGCAACACCCTCCGGGCCCTGGCCACGACTCGCCC  
 CTCAACCAAGTTCCTGGCAGGTGCGGCGGGCGGCCATCCAGTGCGTCATCTGCTGCCCCATGGAGCTG  
 GCCAAGACGCGGCTGCAGCTGCAGGACGCGGGCCAGCGCGCACCTACAAGGGCTCGCTGGACTGCCTC  
 GCGCAGATCTACGGGCACGAGGGTCTGCGTGCGCTCAACCGGGCATGGTGTCCACGTTGCTGCGTGAG  
 ACGCCCAGCTTCGGCGTCTACTTCCTCACCTATGACGCTCTACGCGGGCGCTGGGCTGCAGCCGGGC  
 GACCGCCTGCTGGTGCCCAAGCTGCTGTTGGCGGGCGGTACGTACGGCATCGTGTCTGCTCTTACC  
 TATCCTGTGGACGTGGTCAAGTCGCGGCTGCAGGCGGACGACTGCGGGGCGCCCGCGCTACCGCGGC  
 ATCCTGGACTGCGTGACCAAGAGCTACCGCGCCGAGGGCTGGCGCGTCTTACACGGGGGCTGGCGTCC  
 ACGTGCTGCGCGCCTTCCCCGTCAACGCTGCCACCTTCGCCACCGTCACGGTGGTGCTCACCTACGCG  
 CGCGCGAGGAGCGGCCCGAGGGCGAGGCTGTGCCCGCCGCCCTGCGGGGCTGCCCTGGCGCAG  
 CCTCCAGCCTGTGA  
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001039355
Insert Size:	912 bp


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<a href="#">NM_001039355.2</a>
<b>RefSeq Size:</b>	2417 bp
<b>RefSeq ORF:</b>	912 bp
<b>Locus ID:</b>	123096
<b>UniProt ID:</b>	<a href="#">Q8N8R3</a>
<b>Cytogenetics:</b>	14q32.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	32.1 kDa
<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 (1) encodes isoform 1.</p>