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Product datasheet for SC320229

SLC25A20 (NM_000387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A20 (NM_000387) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A20
Synonyms:	CAC; CACT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_000387.3
GGCACTGCAGCTGGGGCTGAGAAGCCAGGACGGCCCGAGAACTGACAGACGGAGTGACAG
ACGGACTGACCATGGCCGACCAGCCAAAACCCATCAGCCCGCTCAAGAACCTGCTGGCCG
GCGGCTTTGGCGGCGTGTGCCTGGTGTTCGTCGGTCACCCTCTGGACACGGTCAAGGTCC
GACTGCAGACACAGCCACCGAGTTTGCCTGGACAACCTCCCATGTACTCTGGGACCTTTG
ACTGTTTCCGGAAGACTCTTTTTAGAGAGGGCATCACGGGGCTATATCGGGGAATGGCTG
CCCCTATCATCGGGGTCACTCCCATGTTTGCCGTGTGCTTCTTTGGGTTTGGTTTGGGGA
AGAAACTACAACAGAAACACCCAGAAGATGTGCTCAGCTATCCCCAGCTTTTTGCAGCTG
GGATGTTATCTGGCGTATTCACCACAGGAATCATGACTCCTGGAGAACGGATCAAGTGCT
TATTACAGATTCAGGCTTCTTCAGGAGAAAGCAAGTACACTGGTACCTTGGACTGTGCAA
AGAAGCTGTACCAGGAGTTTGGGATCCGAGGCATCTACAAAGGGACTGTGCTTACCCTTA
TGCGAGATGTCCCAGCTAGTGGAATGTATTTCATGACATATGAATGGCTGAAAAATATCT
TCACTCCGGAGGGAAAGAGGGTCAGTGAGCTCAGTGCCCCTCGGATCTTGGTGGCTGGGG
GCATTGCAGGGATCTTCAACTGGGCTGTGGCAATCCCCCCAGATGTGCTCAAGTCTCGAT
TCCAGACTGCACCTCCTGGGAAATATCCTAATGGTTTCAGAGATGTGCTGAGGGAGCTGA
TCCGGGATGAAGGAGTCACATCCTTGTACAAAGGGTTCAATGCAGTGATGATCCGAGCCT
TCCCAGCCAATGCGGCCTGTTTCCTTGGCTTTGAAGTTGCCATGAAGTTCCTTAATTGGG
CCACCCCCAACTTGTGAGGCTGAAGGCTGCTCAAGTTCACTTCTGGATGCTGGAAGCTGT
CGTTGAGGAGAAGGAGTAGTAAGCAGAACTAAGCAGTCTTGGAGGGCAAGGGGAGGGGAA
TGGTGAGATCCGAGCCCTGTGCATGGACTTGGTGAGACTGTTGCCTTAATGACATCCTGC
ACCGTGTATAACTTAGTGTGTCATTTTGAAACTTGAATTCATTCTTATCAATTTAAGGGA
TCTTAAAAGGATTTGGAAATGGAACAAGTAGCTTCCAGACCAGATACTACCTGTGGCAAG
AATGCTGCCTACCAGTTAACTGCTGGTCCTACCACAGTCAAAGTATTCCTCATTAAAGAG
AGAATCTCAGGTTCTCACTGGAGGCACTGTGCATATTTTCAACCAGATCACCAGGAGCTG
AGATCTTCTTCAGTCCCTAGCCAGGAATACCCATTTGATTTCCAGGGTGCCATCTAATCC
TGGGCTGTACATGTGGATATGGACTTGAGGCCCACCTCTGTGTCCAAGTGGATTGAGCAT
ATATGCCTAGGAGGAGATAGACTGTTAATCGTTGGATTTTGATTTTTTTTTTTTATGCCT
GCAAATAATCAAAAGTAAAACTGGAGTAGCCTAATTTTCTGGGAGCAGGTGGAGAACTTT
CCCTCCTACACAGTGAGGACAGTCCCAGTCTGCTGGGATAAGTGAGAAAGCCCAGGGTGT
AGGAAGGCCCTTTTTACATACTCTTTTCTCATGAGAGCTCACTATTTTAACAATAAACAA
TAAACGTTGTTTCTAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_000387

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: 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.

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:	NM_000387.3, NP_000378.1
RefSeq Size:	1803 bp
RefSeq ORF:	906 bp
Locus ID:	788
UniProt ID:	O43772
Cytogenetics:	3p21.31
Domains:	mito_carr
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene product is one of several closely related mitochondrial-membrane carrier proteins that shuttle substrates between cytosol and the intramitochondrial matrix space. This protein mediates the transport of acylcarnitines into mitochondrial matrix for their oxidation by the mitochondrial fatty acid-oxidation pathway. Mutations in this gene are associated with carnitine-acylcarnitine translocase deficiency, which can cause a variety of pathological conditions such as hypoglycemia, cardiac arrest, hepatomegaly, hepatic dysfunction and muscle weakness, and is usually lethal in new born and infants. [provided by RefSeq, Jul 2008]