

Product datasheet for **SC119890**

OXCT1 (NM_000436) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OXCT1 (NM_000436) Human Untagged Clone
Tag:	Tag Free
Symbol:	OXCT1
Synonyms:	OXCT; SCOT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119890 sequence for NM_000436 edited (data generated by NextGen Sequencing)

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ATGGCGGCTCTCAAACCTCTCTCCTCCGGGCTTCGGCTCTGCGCCTCTGCCCGGGATCT
GGGGCAACCTGGTACAAGGGATGTGTTTCTTTCCACCAGTGCTCATCGCCATACC
AAGTTTTATACAGATCCAGTAGAAGCTGTAAAAGACATCCCTGATGGTGCCACGGTTTTG
GTTGGTGGTTTTGGGCTATGTGGAATCCAGAGAATCTTATAGATGCTTTACTGAAAACT
GGAGTAAAAGGACTAATGCAGTCAGCAACAATGCAGGGGTTGACAATTTGGTTTTGGGG
CTTTTGCTTCGGTCCAAGCAGATAAAACGCATGGTCTTTCATATGTGGGAGAAAAATGCA
GAATTTGAACGACAGTACTTATCTGGTGAATTAGAAGTGAGCTGACACCACAGGGCACA
CTTGACAGAGAGGATCCGTGCAGGCGGGGCTGGAGTTCTGCATTTTACACCCCAACAGGG
TATGGGACCTGGTACAAGAAGGAGGATCGCCCATCAAATACAACAAAGATGGCAGTGTT
GCCATTGCCAGTAAGCCAAGAGAGGTGAGGGAGTTCAATGGTCAGCACTTATTTTGGAG
GAAGCAATTACAGGGGATTTTGTCTTGGTAAAAGCCTGGAAGCGGACCGAGCAGGAAAC
GTGATTTTTCAGGAAAAGTCAAGGAATTTCAACTTGCCAAATGTGCAAAGCTGCAGAAACC
ACAGTGGTAGAGGTTGAAGAAATTTGGATATTGGAGCATTTGCTCCAGAAGACATCCAT
ATTCTCAGATTTATGTACATCGCTTATAAAGGGAGAAAAATATGAGAAAAGAATTGAG
CGTTTATCAATCCGAAAAGAGGGAGATGGGGAAGCCAAATCTGCTAAACCTGGAGATGAC
GTAAGGGAACGAATCATCAAGAGGGCCGCTCTTGAGTTTGGAGATGGCATGTATGCTAAT
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CTTCAAAGTAAAATGGAGTTCTGGGTTTGGGTCCATATCCACGACAACATGAAGCTGAT
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TCCAGCGATGAATCATTGCAATGATTAGAGGTGGACACGTCGATCTGACAATGCTAGGA
GCGATGCAGGTTTCCAAATATGGTGGCTAACTGGATGATACCTGGGAAGATGGT
AAAGGAAATGGGAGGTGCTATGGATTTAGTGCCAGTGCGAAAACCAAAGTGGTGGTCACC
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ACTGGAAGCAATGTGTCAACCGCATTATTACTGAAAAGGCTGTGTTTGTATGTGGACAAG
AAGAAAGGGTTGACTCTGATTGAGCTCTGGGAAGGCTGACAGTGGATGACGTACAGAAG
AGTACTGGGTGTGATTTTGCAGTTTACCAAAACTCATGCCAATGCAGCAGATCGCAAT
TGA
    
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Clone variation with respect to NM_000436.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000436 unedited
TGATACGACTCACTATAGGCGGCNCGGAATTCGCACGAGGCTCAAACGCGCGCTCCAA
CCCGCAGCCTCCTCCTGCCTCACCGCCGAAGAGGCGGCTCTCAAACCTCTCCTCCGG
GCTTCGGCTCTGCGCCTCTGCCCGGATCTGGGGCAACCTGGTACAAGGGATGTGTTTG
TTCCTTTTCCACCAGTGTCTCATCGCCATACCAAGTTTTTATACAGATCCAGTAGAAGCTGT
AAAAGACATCCCTGATGGTGCCACGTTTTTGGTTGGTGGTTTTGGGCTATGTGGAATTC
AGAGAATCTTATAGATGCTTTACTGAAAACCTGGAGTAAAAGGACTAACTGCAGTCAGCAA
CAATGCAGGGGTTGACAATTTTGGTTTGGGGCTTTTGGTTTCGGTCCAAGCAGATAAAACG
CATGGTCTCTTCATATGTGGGAGAAAAATGCAGAAATTTGAACGACAGTACTTATCTGGTGA
ATTAGAAGTGGAGCTGACACCACAGGGCACACTGCAGAGAGGATCCGTGCAGGCGGNGC
TGGAGTTCCTGCATTNTACACCCNCAACAGGGTATGGGACCCTGGTACAAGAGGGGAGAT
CGCCCATCAAATACAACAAAGATGGCAGTGTGCCATTGCCAGTAAGCCAAGAGAGGTGA
AGGGAGTTC AATGGTCANCACTTTATTTTGGAGGAAGCAATACAGNGATTTTGTCTTTG
TGAAAAGCCTGAAGGGCGACCGACAGNAAACGTGATTTTTCAGGAAAGTGCAGGATTTCACT
TGCCATGTGCAAGCTGAAAACACAGGGNTAAAGGTGAAAAATTTGTATATGGGACTTTGC
TCAGAGACTCCATATCCTAAATTTAGGCCATGCCTTATAAAGGAGAAAAATGAAAGGAATTG
CGGT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000436 unedited GACCGCGGCACGCAATCTAGTGTGCGAGTTTTTTTTTTTTTTTTTTTTTACATCACTTTAGAA TATTTATTGTATTCCCTTAATGCATTTCTTAACATGTATAGCACTTTAATCAAGAATAT AAAGTCATCTACTTAGAATCACATTATCTTAAAGATGCATACTGGAATGATAAGTTTGAA GATGTAACATCAACAATTCTTTTCAAAATCATATCAATATATTACTCTCATGGAACCTG CACATTCTAAGAAGGGTCATTTTTTCCCCCAGTACTGGGAAGGTATGCATTTAACCATG TGGTCAGCCAGAAAGGCTGTTTTATATATGGTGTGTGTTACTCATAAAAAGCCTGTCCTT TCTCTAATATTGTACATTACACAATTGTAGCTACACCTGAAAAGAAGTGAGTTTCAATGA CCATCATCACCTAAAAACATGAATAAGTTTGTATTTTAGGACCAGAGGAATGATATATC GTAAGTGTACTATGCCTACCTCTGTCCAGAGGCCAGCTGTCTCACCTGTTCTTCAGGGTGC CTAGACTTTTTACCCATCTATTATCCGGGATGCTTCTGAAGTCATTCCCATGGGCCCTG TCAGGTATTGAGAATAAATACCTCTAAGGAAGTTTTTTTCAAACCTAATCTACCCACCAT GTTTTATCCCTGACACTAAAAGTTCAGTACTCTCAAATCCTAGACTTGTCCAACATTA TTTTTCCCTAGTTGGATATGGCTGAATTAAGGCACTTCGTTAAAGGGAAGTAGCCCTG GGCAGAAGATAAACCGTTGTTCTGTAAGTGTCAATCAATTTAAAATCTNCTCTGAA CCANNAACAGACCNTGAAGTNAACACCTTTTTATTTTTAACTCTGCTGGCATTGCTA CTAAAGATTTCATGGGAAATNATCCACAGCCTTTCTTGCTTGAAGGAGGTACAGTCA AGTACCCCAAGTCTCATAACAGAAGTATCCTCAGGACCTTGAGGATCAAGAATACTGG GCTGTTTAAATGAGAACTGNAAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_000436
Insert Size:	3330 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:	<ol style="list-style-type: none"> 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_000436.2</u> , <u>NP_000427.1</u>
RefSeq Size:	3385 bp
RefSeq ORF:	1563 bp
Locus ID:	5019
UniProt ID:	<u>P55809</u>
Cytogenetics:	5p13.1

Domains:	CoA_trans
Protein Pathways:	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation
Gene Summary:	This gene encodes a member of the 3-oxoacid CoA-transferase gene family. The encoded protein is a homodimeric mitochondrial matrix enzyme that plays a central role in extrahepatic ketone body catabolism by catalyzing the reversible transfer of coenzyme A from succinyl-CoA to acetoacetate. Mutations in this gene are associated with succinyl CoA:3-oxoacid CoA transferase deficiency. [provided by RefSeq, Jul 2008]