

Product datasheet for **RC203764**

OXCT1 (NM_000436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OXCT1 (NM_000436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OXCT1
Synonyms:	OXCT; SCOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203764 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTCAAACCTCTCCTCCGGGCTTCGGCTCTGCGCCTGCCCCGGATCTGGGGCAACCT
 GGTACAAGGGATGTGTTTCTCTTTCCACCAGTGCTCATCGCCATACCAAGTTTTATACAGATCCAGT
 AGAAGCTGTAAGACATCCCTGATGGTCCACGGTTTTGGTTGGTGGTTTTGGGCTATGTGAATTCCA
 GAGAATCTTATAGATGCTTTACTGAAAACCTGGAGTAAAAGGACTAACTGCAGTCAGCAACAATGCAGGG
 TTGACAATTTTGGTTGGGGCTTTGCTTCGGTCCAAGCAGATAAAACGCATGGTCTCTTCATATGTGGG
 AGAAAAATGCAGAAATTTGAACGACAGTACTTATCTGGTGAATTAGAAGTGGAGCTGACACCACAGGGCACA
 CTTGCAGAGAGGATCCGTGCAGGCGGGCTGGAGTTCCTGCATTTACACCCCAACAGGGTATGGGACCC
 TGGTACAAGAAGGAGGATCGCCATCAAATAACAACAAGATGGCAGTGTGCCATTGCCAGTAAGCCAAG
 AGAGGTGAGGGAGTTCAATGGTCAAGCAGTCTTTATTTGGAGGAAGCAATTACAGGGGATTTGCTTTGGTG
 AAAGCCTGGAAGGCGGACCGAGCAGGAAACGTGATTTTCAGGAAAAGTGAAGGAATTTCAACTTGCCAA
 TGTGCAAAGCTGCAGAAACCACAGTGGTAGAGGTTGAAGAAATTGTGGATATTGGAGCATTGCTCCAGA
 AGACATCCATATTCCTCAGATTTATGTACATCGCCTTATAAAGGGAGAAAAATAGAGAAAAAATTGAG
 CGTTTATCAATCCGAAAGAGGGAGATGGGGAAGCCAAATCTGCTAAACCTGGAGATGACGTAAGGGAAAC
 GAATCATCAAGAGGGCCGCTCTTGAGTTGAGGATGGCATGTATGCTAATTTGGGCATAGGAATCCCTCT
 CCTGGCCAGCAATTTTATCAGCCAAATATAACTGTTTCATCTTCAAAGTAAAAATGGAGTTCTGGGTTTG
 GGTCCATATCCACGACAACATGAAGCTGATGCAGATCTCATCAATGCAGGCAAGGAAACAGTTACTATTC
 TTCCAGGAGCCTCTTTTTCTCCAGCGATGAATCATTGCAATGATTAGAGGTGGACACGTCGATCTGAC
 AATGCTAGGAGCGATGCAGGTTTTCAAATATGGTGACCTGACTAAGTGGATGATACCTGGGAAGATGGTG
 AAAGGAATGGGAGGTGCTATGGATTTAGTGTCCAGTGCAGAAAACCAAAGTGGTGGTACCATGGAGCATT
 CTGCAAAGGGAAATGCACATAAAATCATGGAGAAATGTACATTACCATTGACTGGAAAGCAATGTGTCAA
 CCGCATTATTACTGAAAAGGCTGTGTTTGTGTTGATGTGGACAAGAAGAAAGGGTTGACTCTGATTGAGCTCTGG
 GAAGGCCTGACAGTGGATGACGTACAGAAGAGTACTGGGTGTGATTTGCAGTTTACCAAAAACATCATGC
 CAATGCAGCAGATCGCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203764 protein sequence
 Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLCASARGSGATWYKGCVCSFSTSAHRHTKFYTDVPEAVKIDIPDGATVLVGGFGLCGIP
 ENLIDALLKTVKGLTAVSNNAGVDNFGLGLLLRSKQIKRMVSSYVGENAEFERQYLSGELEVELTPQGT
 LAERIRAGGAGVPAFYPTGYGLVQEGGSPKYNKDGSVIAASKPREVREFNGQHFILEEAITGDFALV
 KAWKADRAGNVIFRKSARNFNLPMCKAAETTVVEVEEIVDIGAFAPEDIHIPQIYVHRLIKGEKYEKRIE
 RLSIRKEGDGEAKSAKPGDDVRERIIKRAALEFEDGMYANLIGIPLLASNFISPNTIVHLQSENGVLGL
 GPYPRQHEADADLINAGKETVITLPGASFFSDESAMIRGGHVDLTM LGAMQVSKYGDLANWMIIPGKMV
 KMGGMAMDLVSSAKTKVVVTMEHSAKGNHAKIMEKCTLPLTGKQCVNRIITEKAVFDVDDKKKGLTLIELW
 EGLTVDDVQKSTGCDFAVSPKLMMPMQIAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6010_d08.zip

Restriction Sites:

Sgfl-Mlul

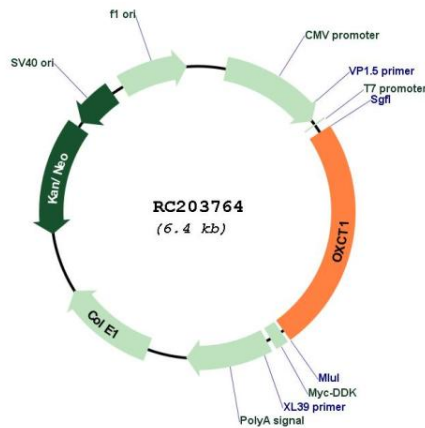
Domains: CoA_trans

Protein Pathways: Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine, leucine and isoleucine degradation

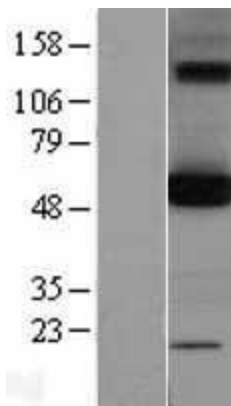
MW: 56.2 kDa

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]

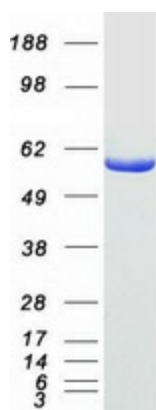
Product images:



Circular map for RC203764



Western blot validation of overexpression lysate (Cat# [LY400157]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203764 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OXCT1 protein (Cat# [TP303764]). The protein was produced from HEK293T cells transfected with OXCT1 cDNA clone (Cat# RC203764) using MegaTran 2.0 (Cat# [TT210002]).