

Product datasheet for **RG203764**

OXCT1 (NM_000436) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | OXCT1 (NM_000436) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | OXCT1 |
| Synonyms: | OXCT; SCOT |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG203764 representing NM_000436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTCAAACCTCTCCTCCGGGCTTCGGCTCTGCGCCTGCCCCGGATCTGGGGCAACCT
 GGTACAAGGGATGTGTTTCCCTTTCCACCAGTGCTCATCGCCATACCAAGTTTTATACAGATCCAGT
 AGAAGCTGTAAGACATCCCTGATGGTCCACGGTTTTGGTTGGTGGTTTTGGCTATGTGAATTCCA
 GAGAATCTTATAGATGCTTTACTGAAAAGTGGAGTAAAAGGACTAACTGCAGTCAGCAACAATGCAGGGG
 TTGACAATTTTGGTTGGGGCTTTGCTTCGGTCCAAGCAGATAAAACGCATGGTCTCTTCATATGTGGG
 AGAAAAATGCAGAAATTTGAACGACAGTACTTATCTGGTGAATTAGAAGTGGAGCTGACACCACAGGGCACA
 CTTGCAGAGAGGATCCGTGCAGGCGGGCTGGAGTTCCTGCATTTACACCCCAACAGGGTATGGGACCC
 TGGTACAAGAAGGAGGATCGCCATCAAATAACAACAAGATGGCAGTGTGCCATTGCCAGTAAGCCAAG
 AGAGGTGAGGGAGTTCAATGGTCAAGCAGTCTTTATTTGGAGGAAGCAATTACAGGGGATTTGCTTTGGTG
 AAAGCCTGGAAGGCGGACCGAGCAGGAAACGTGATTTTCAGGAAAAGTGAAGGAATTTCAACTGCCAA
 TGTGCAAAGCTGCAGAAACCACAGTGGTAGAGGTTGAAGAAATTGTGGATATTGGAGCATTGCTCCAGA
 AGACATCCATATTCCTCAGATTTATGTACATCGCCTTATAAAGGGAGAAAAATAGAGAAAAAATTGAG
 CGTTTATCAATCCGAAAGAGGGAGATGGGGAAGCCAAATCTGCTAAACCTGGAGATGACGTAAGGGAAAC
 GAATCATCAAGAGGGCCGCTCTTGAGTTGAGGATGGCATGTATGCTAATTTGGGCATAGGAATCCCTCT
 CCTGGCCAGCAATTTTATCAGCCAAATATAACTGTTTCATCTTCAAAGTAAAAATGGAGTTCTGGGTTTG
 GGTCCATATCCAGACAACATGAAGCTGATGCAGATCTCATCAATGCAGGCAAGGAAACAGTTACTATTC
 TTCCAGGAGCCTCTTTTTCTCCAGCGATGAATCATTGCAATGATTAGAGGTGGACACGCTCGATCGTG
 AATGCTAGGAGCGATGCAGGTTTCCAAATATGGTGACCTGACTAAGTGGATGATACCTGGGAAGATGGTG
 AAAGGAATGGGAGGTGCTATGGATTTAGTGTCCAGTGCAGAAAACCAAAGTGGTGGTACCATGGAGCATT
 CTGCAAAGGGAAATGCACATAAAATCATGGAGAAATGTACATTACCATTGACTGGAAAGCAATGTGTCAA
 CCGCATTATTACTGAAAAGGCTGTGTTTGTGTTGATGTGGACAAGAAGAAAGGTTGACTCTGATTGAGCTCTGG
 GAAGGCCTGACAGTGGATGACGTACAGAAGAGTACTGGGTGTGATTTGCAGTTTACCAAAAACATCATGC
 CAATGCAGCAGATCGCAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203764 representing NM_000436
 Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLCASARGSGATWYKGCVCSFSTSAHRHTKFYTDPEAVKIDIPDGATVLVGGFGLCGIP
 ENLIDALLKTGVKGLTAVSNNAGVDNFGLGLLRSKQIKRMVSSVYGENAEFERQYLSGELEVELTPQGT
 LAERIRAGGAGVPAFYPTGYGTLVQEGGSPKYNKDGSAIASKPREVREFNGQHFILEEAITGDFALV
 KAWKADRAGNVIFRKSARNFNLPMCKAAETTVVEVEEIVDIGAFAPEDIHIPQIYVHRLIKGEKYEKRIE
 RLSIRKEGDGEAKSAKPGDDVRERIIKRAALEFEDGMYANLIGIGIPLLASNFISPNTIVHLQSENGVLGL
 GPYPRQHEADADLINAGKETVTILPGASFFSSDESFA MIRGGHVDLTMLGAMQVSKYGDLANWMIPIGKMV
 KGMGGAMDLVSSAKTKVVVTMEHSAKGNNAHKIMEKCTPLPLTKGQCVNRIITEKAVFDVDDKKKGLTLIELW
 EGLTVDDVQKSTGCDFAVSPKLMMPMQIAN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_000436

ORF Size: 1560 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000436.4](#)

RefSeq Size: 3572 bp

RefSeq ORF: 1563 bp

Locus ID: 5019

UniProt ID: [P55809](#)

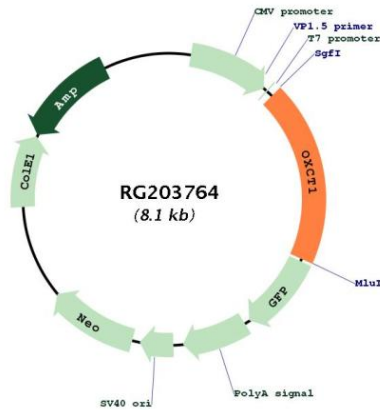
Cytogenetics: 5p13.1

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]

Product images:



Circular map for RG203764