

Product datasheet for **MC217534**

Oxct2b (NM_181859) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxct2b (NM_181859) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oxct2b
Synonyms:	Scot-t2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217534 representing NM_181859
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCTGAGGCTTCTGGCCTGGGCGCTCCACGTGGGGTCTCTGCTCTCCGCCACGACCTGCGC
 TGCCCCACCGCCTTATCCGCCGCTATGTTTCGGACCGCAGCGGGAGTGCCATTTCTACACGGACCCGGT
 GAAGGCGGTGGAGGGCGTCAAGGATGGGTCGACCGTCATGCTCGGGGGCTTCGGGCTCTGCGGCATCCCC
 GAGAACCTGATCGGTGCGCTGAAGACCAAGGGCGTGAAGGACCTGAAGATCGTCAGCAGCAACGTGGGCG
 TGGACGACTTCGGCCTGGGCATCTTGTGGCCTCCAAGCAGGTCAAGGCGGTGGTGTGCTCCTACCTGGG
 GGAGAACGCGCTCTGCGAGAAGCTCTACCTGGCGGGCGAGCTGGAAGTGGAGATGACGCCGAGGGAAC
 CTGGCCGAGCGCATCCGCGCGGGTGGCACTGGCGTGGCCGCTTCTACACGCCACAGGCTACGGAACGC
 TGGTGCAGGAAGGGGGCTCTCAATCCGGTACGCGCCCGATGGCCACCTGATTACTCTAAGTGAAGCCGG
 AGAAGTACGCGAGTTTCAGGGCCGCTTCTACCTGCTAGAGCAGCTATCCGCGTGAATTCGCACTGATC
 AAGGGCTGAAAAGCCGACCGCTCGGGCAACGTGATCTTCAGAGGCAGCGCGCAACTTCAATGTGCCCA
 TGTGCAAGGCCGCGGACATCTCGGTGGTAGAAGTGGAGGAGATCGTGGACGTTGGTACTTTCGCCCCGGA
 AGACATCCACATCCCCAACATCTATGTGGACCGCGTGATCAAGGGGCCGAAGTTCGAGAAGCGCATCGAG
 CGCCTAACACACGTGACAGCAAGCCCGCGCCGGGAGCAAAGACAATGACCCCTTCCAGGACGCGCATCA
 TCAAGCGCGCGGCTCTGGAGTCCAGGACGGCATGTATGCCAATCTGGGCATCGGGATCCCTGTCTTGGC
 GAGCAACTACATCAGCCCCAAGATGACCGTCTACCTGCACAGTGAACCGGAATCCTGGGCTTGGGCCCG
 TTCCCTTTGAAAAATGAGGTAGATGCCGACGTATCAACGCAGGCAAGCAGACAGTGAAGGTTGGTCCCG
 GGGGCTGTTTCTTCGCCAGCGATGACTCTTTTCCATGATTCGTGGCGGACACCTCCAACGACCATGCT
 TGGGGCCATGCAAGTTTCTCAATACGGCGACCTGGCCAACTGGATGGTGGCAGGCAAGAAGGTGAAGGGC
 ATGGGTGGGGCCATGGACTTGGTGTCTAGTAAAAAGACCAGAGTGGTAGTCACCATGGAACACTGTACCA
 AGACAAAGCAGCCAAAACTTTGAAGAAATGCACCATGCCGTTGACTGGCAAGCGCTGCGTGGACCTCAT
 CATCACTGAGAAGGCGGTGTTTGAAGTGAACCACTCAAAGGGGCTGACGCTGGTGGAGCTGTGGAGGGC
 TCGTCGGTAGATGACATCAAGGCCACCACAGCCTGTTCAATTTGCTGTGTCCCAACCTCAAAGCCATGC
 AGCAGATTAACCTTGATGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_181859

Insert Size: 1563 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:

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_181859.3](#), [NP_862907.2](#)

RefSeq Size: 1755 bp

RefSeq ORF: 1563 bp

Locus ID: 353371

UniProt ID: [Q9ESL0](#)

Cytogenetics: 4 D2.2

Gene Summary: Key enzyme for ketone body catabolism. Transfers the CoA moiety from succinate to acetoacetate. Formation of the enzyme-CoA intermediate proceeds via an unstable anhydride species formed between the carboxylate groups of the enzyme and substrate (By similarity). Probably play an important roles in the energy metabolism of spermatozoa.
[UniProtKB/Swiss-Prot Function]