

Product datasheet for **MC217461**

Oxct2a (NM_022033) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxct2a (NM_022033) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oxct2a
Synonyms:	Oxct; Oxct2; Scot; Scot-t1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217461 representing NM_022033
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGGCGCTGAGGCTTCTGGCCTGGGCGCTCCACGTGGGTATCTGCTCTCCGCCACCAACCCGCGC
 TGCCCCACCGCCTTATCCGCCGCTATGTTTCGGACCGCAGCGGGAGTGCCATTTCTACACGGACCCGGT
 GAAGGCGGTGGAGGGCGTCAAGGACGGGTCTACCGTCATGCTCGGGGGCTTCGGGCTCTCGGCATCCCC
 GAGAACCTGATCGGTGCGCTGAAGACCAAGGGCGTGAAGGACCTGAAGATCGTCAGCAGCAACGTGGGCG
 TGGACGACTTCGGCCTGGGCATCTTCTGGCCTCCAAGCAGGTGAGGCGCGTGGTGTCTCTACCTGGG
 GGAGAACGCGCTCTGCGAGAAGCTCTACCTGGCGGGCGAGCTGGAAGTGGAGATGACGCCGAGGGAAC
 TTGGCCGAGCGCATCCGCGCGGGTGGCACTGGCGTGCCCGCTTCTACACGCCACAGGCTATGGAACGC
 TGGTGCAGGAAGGGGGCTCTCAATCCGGTACGCGCCCGATGGCCACCTGATTACTCTAAGTGAGCCGCG
 AGAAGTACGCGAGTTCCAGGGCCGCTTCTACCTGCTAGACACGCTATCCGCGCTGACTTCGCACTGATC
 AAGGGCTGGAAGGCCGACCGCTCCGGCAACGTGATCTTCAGGGGCGAGCGCGCAACTTCAATGTGCCCA
 TGTGCAAGGCCGCGGACATCTCGGTGGTGAAGTGGAGGAGATCGTGGACGTGGGTACTTTCGCCCCGGA
 AGACATCCACGTCCCAACATCTATGTGGACCGCGTGATCAAGGGGCCGAAGTTCGAGAAGCGCATCGAG
 CGCCTAACACACGTGACAGCAAGCCCGCGCCGGGAGCAAAGACAATGACCCTTCCAGGACGCGCATCA
 TCAAGCGCGCGGCTCTGGAGTTCAGGACGGCATGTATGCCAATCTGGGCATCGGGATCCCTGTCTTGGC
 GAGCAACTACATCAGCCCCAAGATGACCGTCTACCTGCACAGTGAACGGAATCCTGGGCTTGGGCCCCG
 TTCCCTTTGAAAAATGAGGTAGATGCCGACGTATCAACGCAGGCAAGCAGACAGTGACGGTGGTTCCCG
 GGGGCTGTTTCTTCGCCAGCGATGACTCTTTTGCATGATCCGTGGCGGACACCTCCAATGACCATGCT
 TGGGGCCATGCAGGTTTCTCAATACGGCGACCTGGCCAACCTGGATGGTGCCAGGCAAGAAGGTGAAGGGC
 ATGGGCGGGGCCATGGACTTGGTGTCTAGTAAAAAGACCAGAGTTGTAGTCAACATGGAACACTGCACCA
 AGACAAAGCAGCCCAAAATCTTGAAGAAATGCACCATGCCATTGACCGGCAAGCGCTGCGTGGACCTCAT
 CATCACTGAGAAGGCAGTGTTTGAAGTGAACCACTCAAAGGGGCTGACACTGGTGGAGCTGTGGAGGGC
 TCGTCGGTAGATGACATCAAGGCCACCACAGCCTGTTCATTTGCCGTGTCCCCAACCTCAAGCCCATGC
 AGCAGATTAACTTGATGCT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_022033

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_022033.4, NP_071316.1</u>
RefSeq Size:	1805 bp
RefSeq ORF:	1563 bp
Locus ID:	64059
UniProt ID:	<u>Q9JJN4</u>
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]