

Product datasheet for **MR208326**

Oxct1 (NM_024188) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxct1 (NM_024188) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxct1
Synonyms:	2610008O03Rik; Oxct; Oxct2a; Scot-s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208326 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTCAAACCTCTGCTCTGGGCTTCGGCTCGGCGCCTCAGCCCGCAGCTCGCGGGGCGCC
 TGCATAAGGGGTGTCTGCTACTTCTCTGTCTGACTCGTCACCACACCAAATTTTACACAGATCCCGT
 GGAAGCTGTAAGATATTCCTAATGGTCAACCTTGGTGGTGGTTTTGGGCTGTGGTATTCCA
 GAGAATCTTATAGGAGCTTTACTGAAGACTGGAGTAAAAGATCTAACTGCAGTCAGCAACAATGCAGGGG
 TTGACAACTTCGGCCTGGCCTTTTACTTCGATCCAAGCAGATAAAACGAATGATCTCTCATATGTGGG
 AGAAAAATGCAGAAATTTGAGCGACAGTTCCTTTCTGGTGAATTAGAAGTAGAGCTGACACCTCAGGGCACA
 CTTGCCGAGAGGATCCGTGCCGGTGGAGCTGGAGTCCCTGCCTTCTACACCAGCACAGGGTATGGGACTC
 TGGTACAGGAAGGAGGATCACCCATCAAATAACAAGATGGCAGTGTGCCATTGCCAGCAAGCCACG
 AGAGGTGAGGGAGTTTAAACGGTCAAGCTTCATTTTGGAGGAAGCCATCACGGGAGATTTTCTCTGGTG
 AAAGCATGGAAAAGCAGACCGGGCAGGCAATGTGATTTTCAAGAAAAGTGAAGAACTTCAATCTGCCAA
 TGTGCAAAGCTGCAGGAACCTACCGTGGTGGAGGTTGAAGAAATTTAGACATTGGCTCATTTGCCCCAGA
 AGATATCCACATTCCAAAGATTTATGTGCACCGCCTATAAAGGGAGAGAAAATAGAGAAGAAATTGAG
 CGTTTATCACTCCGAAAGGAAGGAGATGGAAAAGGCAATCCGGTAAGCCTGGAGGCGATGTGAGGGAAC
 GGATCATCAAGCGAGCCGCCCTGGAGTTTGGAGACGGCATGTACGCTAAGTTGGGATTGGGATTCCTCT
 TCTGGCCAGCAACTTCATCAGTCCCAACATGACTGTTTCATCTTCAAAGTAAAAATGGAGTCTTGGCCTG
 GGCCCATACCCACTGAAAGACGAAGCTGATGCGGATCTCATCAATGCAGGAAAGGAAACAGTACTGTTC
 TCCAGGAGCCTCTTTCTTCCAGCGATGAGTCATTTCGCGATGATTAGAGGGGGACATGTCATTAAC
 AATGTTAGGAGCCATGCAGGTTTCTAAGTATGGTGACCTGGCCAACTGGATGATACCTGGAAAAATGGTG
 AAAGGAATGGGAGGAGCTATGGATTTGGTGTCCAGTTCAAAACCAAAGTGGTGGTACCATGGAGCACT
 CTGCGAAGGGAAATGCTCATAAAATCATGGAGAAATGTACACTACCACTGACGGGCAAACAGTGTGTCAA
 CCGCATATTACAGAAAAGGGTGTGTTTACGCTGGACAAGAAAAATGGTTTACACTGATTGAGCTCTGG
 GAAGGCCTGACTGTTGATGACATCAAGAAGAGCACAGGCTGTGACTTTGCAGTTTACCAAACCTCATGC
 CAATGCAGCAGATTTCAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208326 protein sequence
 Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLGASARSSRGALHKGCVCYFVSSTRHHTKFYTDPEAVKDIPNGATLLVGGFGLCGIP
 ENLIGALLKTVKDLTAVSNNAGVDNFGLLLRKQIKRMISYVGENAEFERQFLSGELEVELTPQGT
 LAERIRAGGAGVPAFYTSTGYGTLVQEGGSPKYNKDGSVIAASKPREVREFNGQHFIEEAITGDFALV
 KAWKADRAGNVIFRKSARNFNLPMCKAAGTTVVEVEEIVDIGSFAPEDIHFKIYVHRLIKGEKYEKRIE
 RLSLRKEGDGKSGKPGGDVREIRIKRAALEFEDGMYANLIGIPLLASNFISPNTVHLQSENGVLGL
 GPYPLKDEADADLINAGKETVTVLPGASFFSDESFAIRGGHVNLTMLGAMQVSKYGDLANWMIPIGKMV
 KMGGMAMDLVSSSKTKVVVTMEHSAKGNHAKIMEKCTLPLTGKQCVNRIITEKGVFDVDDKKNGLTLIELW
 EGLTVDDIKKSTGCDFAVSPNLMMPMQIST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024188

ORF Size: 1563 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_024188.6](#)

RefSeq Size: 3496 bp

RefSeq ORF: 1563 bp

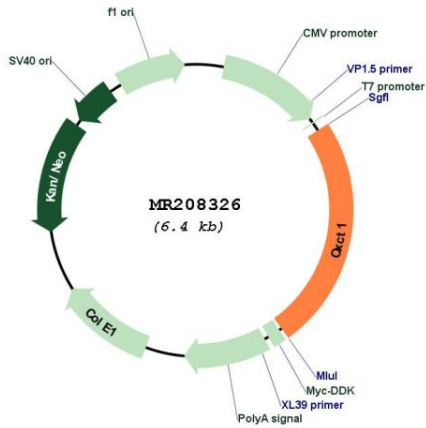
Locus ID: 67041

UniProt ID: [Q9D0K2](#)

Cytogenetics: 15 A1
MW: 56 kDa

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). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208326