

Product datasheet for **RR202427**

Oxct1 (NM_001127580) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxct1 (NM_001127580) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oxct1
Synonyms:	SCOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR202427 representing NM_001127580
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTTAACTCTTGCTCCTCCGGGCTTCGGCTCTGCGCCTCCGCCCGCAACTCGCGGGGCGCC
 TGCACAAGGGGTGCTGCTACTTTCCGTCAGTACTCGTCACCAACCAAATTTTACACAGATCCCGT
 GGAAGCTGTAAGAATATTCCTAATGGTCAACCTTGCTGGTTGGTGGTTTCGGGTTGTGGTATTCCA
 GAGAATCTCATAGGAGCTTTGCTGAAGACCGGAGTGAAGGATCTAACTGCAGTCAGCAACAATGCAGGGG
 TTGACAACTTCGGCCTGGCCTTTTACTTCGATCTAAGCAGATAAAACGCATGATCTCCTCATATGTGGG
 AGAAAACGCAGAGTTTGAGCGACAGTCTTATCGGGTGAAGTAGAGCTGACACCTCAGGGCACT
 CTTGCAGAGAGGATCCGTGCAGGTGGGGCTGGCGTCCCTGCCTTCTACACCAGCACAGGGTATGGGACCC
 TGGTGAAGAGGGAGGATCACCCATCAAATAACAAGATGGCAGTGTGCCATTGCCAGCAAGCCACG
 AGAGGTGAGGGAGTTCGCGGTGAGCAGTCTTTATTTGGAGGAAGCCATCACGGGAGACTTTGCTTTGGTG
 AAGGCCTGAAAAGCAGACCGGGCAGGAAATGTGATTTTCAGGAAAAGTGAAGAACTTCAATTTGCCAA
 TGTGCAAAGCTGCAGGAACCACAGTGGTGGAGGTTGAAGAAATTGTAGACATTGGCTCGTTTGTCCAGA
 AGATATCCACATCCCAAGATTTATGTGCACCGCCTTATAAAGGGAGAGAAAATGAGAAGAGAATCGAG
 CGTTTATCACTGCGAAAGGAAGGTGAAGGAAAAGCCAAGTCTGGTAAGCCCGGAGAAGACGTCAGGGAGC
 GGATCATCAAGAGAGCCGCTCTTGAGTTGAGGATGGCATGTATGCTAACCTGGGTATAGGGATACCTCT
 TCTGGCCAGCACTTTATCAGCCAAACATGACTGTTTCTCCTCAAGTGAAGTGGAGTCTTGGGCTTG
 GGCCCATACCCACTAAAAGACGAAGCTGATGCTGACCTCATCAATGCAGGAAAGGAAACGGTACTGTTC
 TCCAGGAGCCTCTTTCTTCCAGCGATGAATCATTTCGCATGATTAGAGGGGGACGTTCAATCTAAC
 GATGTTAGGAGCCATGCAGGTTTCTAAATATGGTGAAGTGGCCAACTGGATGATACCTGGGAAAATGGTG
 AAAGGAATGGGAGGAGCTATGGATTTAGTCCAGTTCAAAACCAAAGTGGTGGTACCATGGAACACT
 CCGCAAAGGGGAATGCGCATAAAATCATGGAGAAGGTACTACTACCAGTACAGGAAAGCAGTGCCTCAA
 CCGCATCATTACAGAAAAGGGTGTGTTTACGCTGGACAAGAAAAACGGGTTGACATTGATCGAGCTTTGG
 GAAGGCCTGACTGTTGATGACATCAGGAAGAGCACAGGCTGTGACTTTGCAGTTTACCAAACCTCATGC
 CAATGCAGCAGATCTCAACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202427 representing NM_001127580
 Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLCASARNSRGALHKGCACYFSVSTRHHTKFYTDVPEAVKDIPNGATLLVGGFGLCGIP
 ENLIGALLKTVKDLTAVSNNAGVDNFGLGLLRSKQIKRMISYVGENAEFERQFLSGELEVELTPQGT
 LAERIRAGGAGVPAFYTSTGYGTLVQEGGSPKYNKDGSAIASKPREVREFRQHFIEEAITGDFALV
 KAWKADRAGNVIFRKSARNFNLPMCKAAGTTVVEVEEIVDIGSFAPEDIHIPKIYVHRLIKGEKYEKRIE
 RLSLRKEGEGKAKSGKPGEDVRERIIKRAALEFEDGMYANLGIGIPLLASNFISPNTVHLQSENGVLGL
 GPYPLKDEADADLINAGKETVTVLPGASFFSDESFAIRGGHVNLTMLGAMQVSKYGDLANWMIPIGKMV
 KMGGMAMDLVSSSKTKVVVTMEHSAKGNHAKIMEKCTLPLTGKQCVNRIITEKGVFDVDDKKNGLTLIELW
 EGLTVDDIRKSTGCDFAVSPNLMMPMQIST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001127580

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_001127580.1](#), [NP_001121052.1](#)

RefSeq Size: 3334 bp

RefSeq ORF: 1563 bp

Locus ID: 690163

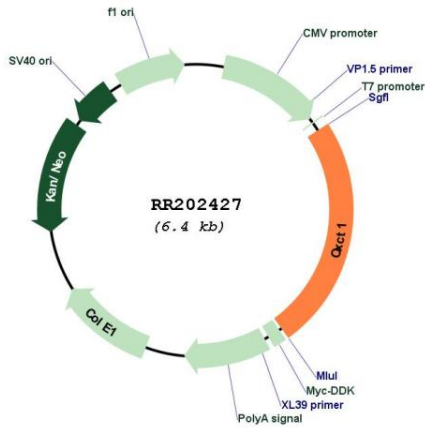
UniProt ID: [B2GV06](#)

Cytogenetics: 2q16

MW: 56.2 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 RR202427