

Product datasheet for **MG208326**

Oxct1 (NM_024188) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oxct1 (NM_024188) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oxct1
Synonyms:	2610008O03Rik; Oxct; Oxct2a; Scot-s
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208326 representing NM_024188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCTCTCAAACCTCTGTCTCTGGGCTTCGGCTCGGCCTCAGCCCGCAGCTCGCGGGCGCC
 TGCATAAGGGGTGTCTGCTACTTCTCTGTCACTACTCGTCACACACCAAATTTTACACAGATCCCGT
 GGAAGCTGTAAGATATTCCTAATGGTCAACCTTGGTGGTGGTTTTGGGCTGTGGTATTCCA
 GAGAATCTTATAGGAGCTTACTGAAGACTGGAGTAAAAGATCTAACTGCAGTCAGCAACAATGCAGGG
 TTGACAACTTCGGCCTGGCCTTTTACTTCGATCCAAGCAGATAAAACGAATGATCTCTCATATGTGG
 AGAAAAATGCAGAAATTTGAGCGACAGTTCCTTTCTGGTGAATTAGAAGTAGAGCTGACACCTCAGGGCACA
 CTTGCCGAGAGGATCCGTGCCGGTGGAGCTGGAGTCCCTGCCTTCTACACCAGCACAGGGTATGGGACTC
 TGGTACAGGAAGGAGGATCACCCATCAAATAACAAAGATGGCAGTGTGCCATTGCCAGCAAGCCACG
 AGAGGTGAGGGAGTTTAAACGGTCAAGCTTCATTTTGGAGGAAGCCATCACGGGAGATTTTGTCTGGTG
 AAAGCATGGAAAGCAGACCGGGCAGGCAATGTGATTTTCAGGAAAAGTGAAGAACTTCAATCTGCCAA
 TGTGCAAAGCTGCAGGAACCTACCGTGGTGGAGGTTGAAGAAATTTAGACATTGGCTCATTTGCCCCAGA
 AGATATCCACATTCCAAAGATTTATGTGCACCGCCTATAAAGGGAGAGAAAATAGAGAAGAAATTGAG
 CGTTTATCACTCCGAAAGGAAGGAGATGGAAAAGGCAATCCCGTAAGCCTGGAGGCGATGTGAGGGAAC
 GGATCATCAAGCGAGCCGCCCTGGAGTTTGGAGACGGCATGTACGCTAATTGGGTATTGGGATTCCTCT
 TCTGGCCAGCAACTTCATCAGTCCCAACATGACTGTTTCATCTTCAAAGTGAAAATGGAGTCTTGGCCTG
 GGCCCATACCCACTGAAAGACGAAGCTGATGCGGATCTCATCAATGCAGGAAAGGAAACAGTTACTGTTC
 TCCAGGAGCCTCTTTCTTCCAGCGATGAGTCATTTCGCCATGATTAGAGGGGGACATGTAACATAAC
 AATGTTAGGAGCCATGCAGGTTTCTAAGTATGGTGACCTGGCCAACTGGATGATACCTGGAAAAATGGTG
 AAAGGAATGGGAGGAGCTATGGATTTGGTGTCCAGTTCAAAACCAAAGTGGTGGTACCATGGAGCACT
 CTGCGAAGGGAAATGCTCATAAAATCATGGAGAAATGTACACTACCCTGACGGGCAAACAGTGTGTCAA
 CCGCATATTACAGAAAAGGGTGTGTTTACGCTGGACAAGAAAAATGGTTTACACTGATTGAGCTCTGG
 GAAGGCCTGACTGTTGATGACATCAAGAAGAGCACAGGCTGTGACTTTGCAGTTTACCAAACCTCATGC
 CAATGCAGCAGATTTCAACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208326 representing NM_024188
 Red=Cloning site Green=Tags(s)

MAALKLLSSGLRLGASARSSRGALHKGCVCYFVSVSTRHHTKFYTDVPEAVKDIPNGATLLVGGFGLCGIP
 ENLIGALLKTGVKDLTAVSNNAGVDNFGLGLLRSKQIKRMISYVGENAEFERQFLSGELEVELTPQGT
 LAERIRAGGAGVPAFYTSTGYGLTVQEGGSPKIKYKNDGSVAIASKPREVREFNGQHFILEEAITGDFALV
 KAWKADRAGNVIFRKSARNFNLPMCKAAGTTVVEVEEIVDIGSFAPEDIHIPKIYVHRLIKGEKYEKRIE
 RLSLRKEGDGKSGKPGGDVREIRIKRAALEFEDGMYANLIGIPLLASNFISPNMTVHLQSENGVLGL
 GPYPLKDEADADLINAGKETVTVLPGASFFSSDESFAIRGGHVNLTMLGAMQVSKYGDLANWMIKGMV
 KGMGGAMDLVSSSKTKVVVTMEHSAKGNHAKIMEKCTPLPLTKGQCVNRIITEKGVFDVDDKKNGLTIELW
 EGLTVDDIKKSTGCDFAVSPNLMMPMQIST

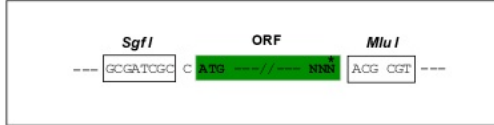
TRTRPLE – GFP Tag – V

Restriction Sites:

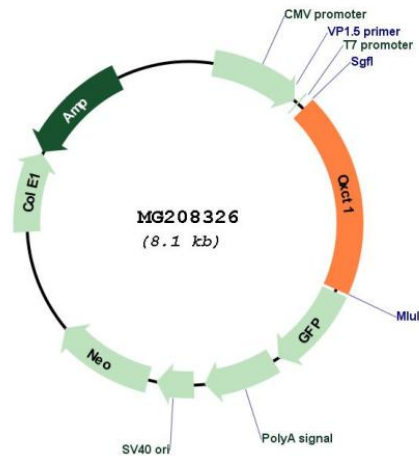
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_024188
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:	<ol style="list-style-type: none">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:	3219 bp
RefSeq ORF:	1563 bp
Locus ID:	67041
UniProt ID:	Q9D0K2
Cytogenetics:	15 A1
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]