

Product datasheet for **MR204004**

Decr2 (NM_011933) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Decr2 (NM_011933) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Decr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204004 representing NM_011933 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAGCCGCCGCCGACGTTGAGGGGGATGACTGTCTTCTGAATACCACCATCTCTTCTGCCCGG
ATCTTCTCCAGGACAAAGTGGCCTTTATCACAGGTGGTGGTCTGGGATTGGCTCCGGATCGCAGAGAT
TTTCATGAGGCATGGCTGCCACACTGTCATCGTCGGCAGGAGTCTGCAGAAAGTGACCACGGCTGCTAAG
AAGTTGGTTGCTGCCACCGGAAAGCGGTGCCTCCCTCTGTCTATGGATGTCCGAGTCCCCAGAGGTCA
TGACTGCTGGATCAAGCGCTGCAAGAATTTGGCAAAATCAACATCCTCATTAACTGTGCAGCTGGAAA
CTTCTATGCCCTGCCAGTGCTTTGTCTTCAATGCCTTTAAGACCGTGGTTGACATTGACACCATCGGT
ACCTTCAATGTGTCTAGTGTGCTTTACAAGAAATTCTTCCGGGACCATGGAGGAGTGATTGTGAACATTA
CTGCCACCCTCAGTATGAGGGGGCAGGTGCTACAGCTACATGCAGGCGCTGCCAAAGCAGCTGTGGATGC
TATGACGCGACACTTGGCTGTGGAATGGGGTCCCCAGAAATATCCGTGTCAACAGCCTGGCTCCTGGTGCC
ATCAGTGGCACTGAGGGTTAAGGCGATTAAGAGGCTCCAATGCCAGTTCGAAATTAAGCATTTTTCAA
ATCCTATTCCAAGACTTGGACCAAGACAGAGATCGCTCACAGCGTGCTGTACCTGGCCAGCCCTCTGGC
TTCTATGTCTCAGGTATCGTGTGGTGGTTGATGGTGAAGCTGGATGACATCCCAATGGCATCAAG
CAACTGCTAGAGTTTGAATCCTTCTCTGCTAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204004 representing NM_011933
Red=Cloning site Green=Tags(s)

MAQPPPDVEGDDCLPEYHHLFCPDLLQDKVAFITGGGSGIGFRIAEIFMRHGCHTVIVGRSLQKVTTAAK
 KLVAATGKRCLPLSMDVRVPPEVMTAVDQALQEFQKINILINCAAGNFLCPASALSFNAFKTVVDIDTIG
 TFNVSSVLYKKFFRDHGGVIVNITATLSMRGQVLQLHAGAAKAAVDAMTRHLAVEWGPQNIRVNSLAPGA
 ISGTEGLRRLRGSNASSKLKHFSNPIPRLGTKEIAHSVLYLASPLASYVSGIVLVVDGGSWMTFPNGIK
 QLLEFESFSAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9058_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011933

ORF Size: 876 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_011933.2](#), [NP_036063.1](#)

RefSeq Size: 2051 bp

RefSeq ORF: 879 bp

Locus ID: 26378

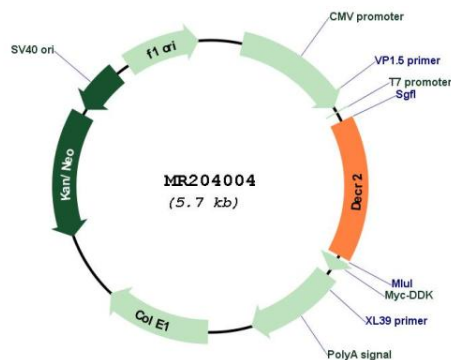
UniProt ID: [Q9WV68](#)

Cytogenetics: 17 13.06 cM

MW: 31.3 kDa

Gene Summary: Auxiliary enzyme of beta-oxidation. Participates in the degradation of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions in peroxisome. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA. Has activity towards short and medium chain 2,4-dienoyl-CoAs, but also towards 2,4,7,10,13,16,19-docosaheptaenoyl-CoA, suggesting that it does not constitute a rate limiting step in the peroxisomal degradation of docosaheptaenoic acid.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204004