

## Product datasheet for RC203715

### DEC2 (NM\_020664) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DEC2 (NM_020664) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DEC2
Synonyms:	PDCR; SDR17C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203715 representing NM_020664 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGCCGCGCCCGACGTGGAGGGGACGACTGTCTCCCCGCTACCGCCACCTCTTCTGCCCGG  
ACCTGCTGCGGGACAAAGTGGCCTTCATCACAGGAGGCGGCTCTGGGATTGGGTTCCGGATTGCTGAGAT  
TTTCATGCGGCACGGCTGCCATACGGTATTGCCAGTAGGAGCCTGCCGCGAGTGTGACGGCCGCCAGG  
AAGCTGGCTGGGGCCACCGCCGGCGCTGCCTCCCTCTCTATGGACGTCGAGCGCCCCAGCTGTCA  
TGCCCGCGTGGACCAGGCTCTGAAGGAGTTTGGCAGAATCGACATTCTCATTAACTGTGCGGCCGGAA  
CTTCTGTGCCCGCTGGCGCCTTGTCTTCAACGCCTTCAAGACCGTATGGACATCGATACCAGCGGC  
ACCTTCAATGTGTCTCGTGTGCTCTATGAGAAATTCTCCGGGACCACGGAGGGGTATCGTGAACATCA  
CTGCCACCCTGGGGAACCGGGGACAGGCGCTCCAGGTGCATGCAGGCTCCGCCAAGGCGCTGTGGACGC  
GATGACGCGGCACTTGGCTGTGGAGTGGGGTCCCCAAAACATCCGCGTCAACAGCCTCGCCCCTGGCCCC  
ATCAGTGGCACAGAGGGGCTCCGGGACTGGGTGGCCCTCAAGCCAGCCTGAGCACCAAGGTCACTGCCA  
GCCCCGTGCAGAGGCTGGGGAACAAGACCGAGATCGCCCCACAGCGTGTCTACCTGGCCAGCCCTGTGC  
TTCTACGTGACGGGGCCGTGCTGGTGGCCGATGGCGGGCATGTTGACGTTCCAAAACGGGTGTCAA  
GGGCTGCCGGATTTCGCATCCTTCTCTGCTAAGCTC

**ACGCGT**ACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203715 representing NM\_020664  
Red=Cloning site Green=Tags(s)

MAQPPPDVEGDDCLPAYRHLFCPDLLRDKVAFITGGGSGIGFRIAEIFMRHGCHTVIASRSLPRVLTAAAR  
 KLAGATGRRCLPLSMDVRAPPVMAAVDQALKEFGRIDILINCAAGNFLCPAGALSFNAFKTVMDIDTSG  
 TFNVSRVLYEKFFRDHGGVIVNITATLGNRQALQVHAGSAKAAVDAMTRHLAVEWGPQNIRVNSLAPGP  
 ISGTEGLRRLGGPQASLSTKVTAASPLQRLGNKTEIAHSVLYLASPLASYVTGAVLVADGGAWLTFPNGVK  
 GLPDFASFSAKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1485\\_f03.zip](https://cdn.origene.com/chromatograms/ja1485_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020664

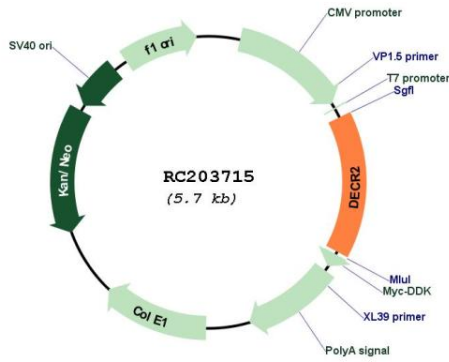
**ORF Size:** 876 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

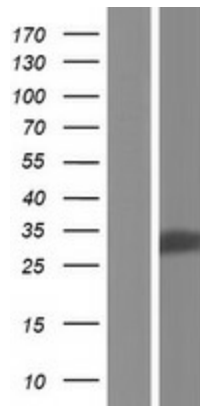
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020664.2</a>
<b>RefSeq Size:</b>	1599 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	26063
<b>UniProt ID:</b>	<a href="#">Q9NUI1</a>
<b>Cytogenetics:</b>	16p13.3
<b>Domains:</b>	adh_short
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	30.6 kDa
<b>Gene Summary:</b>	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 RC203715



Western blot validation of overexpression lysate (Cat# [LY412402]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203715 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).