

## Product datasheet for **SC113040**

### DECR2 (NM\_020664) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DECR2 (NM_020664) Human Untagged Clone
Tag:	Tag Free
Symbol:	DECR2
Synonyms:	PDCR; SDR17C1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020664, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCAGCCGCCCGCCGACGTGGAGGGGACGACTGTCTCCCCGCGTACCGCCACCTCTTCTGCCCGG
ACCTGCTGCGGGACAAAGTGGCCTTCATCACAGGAGGCGGCTCTGGGATTGGTTCCGGATTGCTGAGAT
TTTCATGCGGCACGGCTGCCATACGGTATTGCCAGTAGGAGCCTGCCGCGAGTGCTGACGGCCGCCAGG
AAGCTGGCTGGGGCCACCGCCGGCGCTGCCTCCCTCTCTATGGACGTCGAGCGCCCCAGCTGTCA
TGGCCGCGTGGACCAGGCTCTGAAGGAGTTTGGCAGAATCGACATTCTCATTAACTGTGCGCCGGGAA
CTTCTGTGCCCCGCTGGCGCCTTGTCTTCAACGCCTTCAAGACCGTGATGGACATCGATACCAGCGGC
ACCTTCAATGTGTCTCGTGTGCTCTATGAGAAGTTCTTCCGGGACCACGGAGGGGTGATCGTGAACATCA
CTGCCACCCTGGGGAACCGGGGCGAGGCGCTCCAGGTGCATGCAGGCTCCGCCAAGGCCGCTGTGGACGC
GATGACGCGGCACTTGGCTGTGGAGTGGGGTCCCCAAAACATCCGCGTCAACAGCCTCGCCCTGGCCCC
ATCAGTGGCACAGAGGGGCTCCGGCGACTGGGTGGCCCTCAGGCCAGCCTGAGCACCAAGGTCACTGCCA
GCCCCGCTGAGAGGCTGGGGAACAAGACCGAGATCGCCCCACAGCGTGCTCTACCTGGCCAGCCCTCTGGC
TTCCTACGTGACGGGGCCGCTGTTGGCCGATGGCGGGGCATGGTTGACGTTCCCAAACGGGTGTCAA
GGGCTGCCGATTTCGCATCCTTCTCTGCTAAGCTCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_020664 unedited            TTCCCCGCCCGTTGNAGCAATGGGCGGTAGGCGTGACGGTGGGNAGGTCTATATAAGC            AGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTGCAGCGGCCGCG            AATTCGGCAGCAGGGTCCCCGACGGGAGCGCCATGGCCCAGCCGCCGCCGACGTGGAGG            GGGACGACTGTCTCCCCGCTACCGCCACCTCTTCTGCCCCGACCTGCTGCGGGACAAAG            TGGCCTTCATCACAGGAGGCGGCTCTGGGATTGGGTCCGGATTGCTGAGATTTTCATGC            GGCACGGCTGCCATACGGTGATTGCCAGTAGGAGCCTGCCGCGAGTGCTGACGGCCGCCA            GGAAGCTGGCTGGGGCCACCGCCGGCGCTGCCTCCCTCTCTATGGAGTCCGAGCGC            CCCAGCTGTGATGGCCCGCTGGACCAGGCTCTGAAGGAGTTTGGCAGAATCGACATTC            TCATTAAGTGTGCGGCCGGAACCTCCTGTGCCCGCTGGCGCCTTGTCTTCAACGCCT            TCAAGACCGTGATGGACATCGATACCAGCGGCACCTTCAATGTGTCTCGTGTGCTCTATG            AGAAGTCTTCCGGGACCACGGAGGGGTGATCGTGAACATCACTGCCACCCTGGGGAACC            GGGGGCAGGCGCTCCAGGTGCATGCAGGCTCCGCCAAGGCCGCTGTGGACGCGATGACGC            GGCACCTGGCTGTGGAGTNGGTCCCCAACATCCGCGTCAACAGCCTCGCCCCTGGCCC            CATCAGTGGCACAGAGGGGCTCCGGCGACTNGGTGGCCCTCAGCCAGCCTGAGCACCAN            AGTCACTGCCAGCCCGCTGCAGAAGCTGGGGAACAAGACCAGATCGCCACAGCGTGCT            CTTACTGNCCAGCCCTCTGCTTTCTACNTGACNGNNGCCGNNTGCTGTGCCGATGCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020664
<b>Insert Size:</b>	1650 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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_020664.3</a> , <a href="#">NP_065715.1</a>
<b>RefSeq Size:</b>	1599 bp

RefSeq ORF: 879 bp

Locus ID: 26063

UniProt ID: [Q9NUI1](#)

Cytogenetics: 16p13.3

Domains: adh\_short

Protein Families: Druggable Genome

**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 docosahexaenoic acid.[UniProtKB/Swiss-Prot Function]