

Product datasheet for **SC317463**

RDHE2 (SDR16C5) (NM_138969) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RDHE2 (SDR16C5) (NM_138969) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDHE2
Synonyms:	EPHD-2; RDH#2; RDH-E2; RDHE2; retSDR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317463 representing NM_138969. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTTTCAACCTGCAATCATCAAAGAACTGTTCAATTTCTTAGGAAAATCACTGTTAGTCTTCTG
GAGGCTATGATTTTTGCCTTACTCCAAAGCCACGGAAGAACGTTGCTGGTGAAATAGTCCTCATACA
GGTGTGGAAGTGGACTCGGAAGGCTCTTAGCCTTGCAGTTTGCCCGGCTGGGATCTGTTCTTGTCTC
TGGGATATCAATAAGGAGGGGAATGAGGAAACATGTAAGATGGCTCGGGAAGCTGGAGCCACAAGAGTG
CACGCCTATACCTGCGATTGCAGCCAAAAGGAAGGAGTGTATAGAGTAGCCGACCAGTTAAAAAGAA
GTCGGCGATGTTCCATCCTAATCAACAATGCCGGAATCGTAACAGGCAAAAAGTTCCTTGACTGTCCA
GATGAGCTTATGAAAAGTCATTTGATGTGAATTTCAAAGCACATTTATGGACTTATAAAGCCTTTCTA
CCTGCTATGATTGCTAATGACCATGGACATTTGGTTTGCATTTCAAGTTCAGCTGGATTAAGTGGAGTA
AATGGGCTGGCAGATTACTGTGCAAGTAAATTTGCAGCCTTTGGGTTTGTGTAATCTGTATTTGTAGAA
ACATTTGTCCAAAAACAAAAGGGGATCAAACCACGATTGTGTGCCCTTTTTATAAAAAGTGGAAATG
TTTGAAGTTGTACTACAGGCTGTCTTCTCTGTTGCCAATCTGGAACCAAAATATGCAGTTGAAAAA
ATAGTAGAAGCTATTCTACAAGAAAAATGTACTTGTATATGCCAAAGTTGTTATACTTCATGATGTTT
CTTAAAAGCTTTTTGCCCTCAAGACAGGACTGCTTATAGCTGACTATTTGGGCATCCTTCATGCAATG
GATGGCTTTGTTGACCAAAGAAGAAGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_138969
Insert Size:	930 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_138969.3
RefSeq Size:	3535 bp
RefSeq ORF:	930 bp
Locus ID:	195814
UniProt ID:	Q8N3Y7
Cytogenetics:	8q12.1
Protein Families:	Druggable Genome
MW:	34.1 kDa
Gene Summary:	<p>This gene encodes a member of the short-chain alcohol dehydrogenase/reductase superfamily of proteins and is involved in the oxidation of retinol to retinaldehyde. The encoded protein is associated with the endoplasmic reticulum and is predicted to contain three transmembrane helices, suggesting that it is an integral membrane protein. It recognizes all-trans-retinol and all-trans-retinaldehyde as substrates and exhibits a strong preference for NAD(+)/NADH as cofactors. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the 3' coding region compared to variant 1. It encodes isoform 2, which is shorter than and has a distinct C-terminus compared to isoform 1.</p>