

Product datasheet for **SC125037**

RDH10 (NM_172037) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RDH10 (NM_172037) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH10
Synonyms:	SDR16C4
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_172037, the custom clone sequence may differ by one or more nucleotides

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ATGAACATCGTGGTGGAGTTCTTCGTGGTCACTTTCAAAGTGCTCTGGCGTTCGTGCTGGCCGCGGCGC
GCTGGCTGGTGC GGCCCAAGGAGAAGAGCGTGGCGGGCCAGGTGTGCCTCATCACCGCGCCGGCAGCGG
CCTGGGCCGCTCTTCGCGCTGGAGTTCGCCCCGGCGTCGGGCGCTGCTGGTGCTGTGGGACATCAACACG
CAAAGCAACGAGGAGACGGCTGGCATGGTGCGCCACATCTACCGGACCTGGAGGCGCCGACGCCGCTG
CGCTGCAAGCTGGGAATGGTGGGAAGAAATTCTGCCCACTGTAACCTGCAGGTTTTTACCTACACCTG
TGACGTGGGGAAGAGGGAGAACGTCTACCTGACGGCTGAAAGAGTCCGCAAGGAGTTGGCGAAGTCTCA
GTCCTGGTCAATAATGCTGGTGTGGTCTCTGGGCATCACCTTCTGGAATGCTCTGATGAGCTCATTGAGA
GAACCATGATGGTCAATTGCCATGCACACTTCTGGACCACTAAGGCTTTTCTTCTACGATGCTGGAGAT
TAATCATGGTCATATTGTGACAGTTGCAAGTTCCTTGGGATTGTTTCAGTACTGCCGGAGTTGAGGATTAC
TGTGCCAGTAAATTTGGAGTTGTGGGTTTTATGAATCCCTGAGCCATGAACTAAAGGCTGCTGAAAAGG
ATGGAATTAACAACCTTGGTTTGGCCCTTATCTGTAGACACTGGCATGTTTCAGAGGCTGCCGAATCAG
GAAAGAAATTGAGCCTTTTCTGCCACCTCTGAAGCCTGATTACTGTGTGAAGCAGGCCATGAAGGCCATC
CTCACTGACCAGCCCATGATCTGCACTCCCCGCCTCATGTACATCGTGACCTTCATGAAGAGCATCCTCA
CATTTGAAGCAGTTGTGTGCATGTATCGGTTCTAGGAGCGGACAAGTGTATGTACCCCTTTATTGCTCA
AAGAAAGCAAGCCACAAACAATAATGAAGCAAAAATGGAATCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_172037 unedited NGGGGTTCGAATTGTATCAGACTCACTAAGGCGGCCCAATCGCACCAGTGCGGGTGGG GCGCGGGCCAGCACTGGGGTCGTGCGGGGGCCGGGCGTCCCGATGAACATCGTGGTG GAGTTCTTCTGGTCACTTTCAAAGTGCTCTGGGCGTTCTGCTGGCCGCGGCGCTGG CTGGTGCGGCCAAGGAGAAGAGCGTGGGGGCCANGTGTGCCTCATACCGGCGCCGGC GGCGGCTGGGCGCCTTTCGCGCTGGAGTTCNCCCGGCGTGGGCGCTGCTGGTGCTG TGGGACATCAACACCCAAAGCAACGAGGAGACCCTGGCATGGTGCGCCACATCTACCGC GACCTGGAGGCGGCCGACGCCGCTGCGCTGCAAGCTGGGAATGGTGAGGAAGAAATTCTG CCCCACTGTGAACCTGGAGGTTTTTACCTACACCTGTGACGTGGGGAAGAGGGAGAACGT CTACCTGACGGCTGAAAGAGTCCGCAAGGAGGTGTGGGAAGTCTCAGTCTGGTCAATAA TGGTGGTGTGGTCTCTGGGCATCACCTTCTGGAATGTGCTGGTGGAGCTATTGAGAGAAC CATGATGGTGAATTGCGATGCACACTTCTGGAGCACTAAGGCTTTTCTTCTACGATGCT GGAGATTAATCATGGTATATTGTGACAGTTGCGAGTTCCTTGGGATTGTTCACTACTGC CGGAGTTGAGGATTACTGTGCCAGTAAATTTGGGAGTTGTGGGTTTTTCATGAGTCCCTG AGCCATGAACTAAAGGCTGCGTAAAGGAGGGAATTAACAACCTTGGTTTGCCTTAT CCTGTAGACCTGGGCTGTGCAAAGCTGCCGGATCAGGGGAGAAATTGAGCTTTTCTGCCA CT
Restriction Sites:	NotI-NotI
ACCN:	NM_172037
Insert Size:	2500 bp
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).
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_172037.2 , NP_742034.1
RefSeq Size:	2751 bp
RefSeq ORF:	1026 bp
Locus ID:	157506
UniProt ID:	Q8IZV5
Cytogenetics:	8q21.11
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, Retinol metabolism

Gene Summary:

This gene encodes a retinol dehydrogenase, which converts all-trans-retinol to all-trans-retinal, with preference for NADP as a cofactor. Studies in mice suggest that this protein is essential for synthesis of embryonic retinoic acid and is required for limb, craniofacial, and organ development. [provided by RefSeq, Dec 2011]