

## Product datasheet for **SC320882**

### RDH13 (NM\_138412) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RDH13 (NM_138412) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH13
Synonyms:	SDR7C3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_138412.2  
 GTTGATGGTGACAGCAGCAGTGACCGTAGCAGCCTAGAGGTGGCCGAATGCTTACTCTAA  
 TGGGCTGGCCCATCCCTGAGTGTCTAGAGTTCCAGCCCGCTTAAGGAAGGAAGGAAAAC  
 ACAGGCAGCTCTAAGTGTACGACGAGGGAGGTCTCATCGGCGGTGAGGAAGCCAGGCGG  
 GTCCCCCTCCAGCTGAAAGGGGTTCCGAATTTCACTCTGTCGCCAGGCTGGAATGCAGT  
 AGGGCAATCTCGGCTCACTGCAACCTCCACCTCCCGAGTTC AAGTGATGCTCCTGCTTCG  
 GGCTCTGAGTAGCTGGGACTACAGGGACTATGTCACCGGTGGGGCTTGCCCCAGCAAGG  
 CCACCATCCCTGGGAAGACGGTCATCGTGACGGGCGCCAACACAGGCATCGGGAAGCAGA  
 CCGCCTTGGAACCTGGCCAGGAGAGGAGCAACATCATCCTGGCCTGCCGAGACATGGAG  
 AAGTGTGAGGCGGCAGCAAAGGACATCCGCGGGGAGACCTCAATCACCATGTCAACGCC  
 CGGCACCTGGACTTGGCTTCCCTCAAGTCTATCCGAGAGTTTGCAGCAAAGATCATTGAA  
 GAGGAGGAGCGAGTGGACATTCTAATCAACAACGCGGGTGTGATGCGGTGCCCCACTGG  
 ACCACCGAGGACGGCTTCGAGATGCAGTTTGGCGTTAACCACCTGGGTCACTTTCTCTTG  
 ACAAACTTGCTGTGGACAAGCTGAAAGCCTCAGCCCCTTCGCGGATCATCAACCTCTCG  
 TCCCTGGCCCATGTTGCTGGGCACATAGACTTTGACGACTTGAAGTGGCAGACGAGGAAG  
 TATAACACCAAAGCCGCCTACTGCCAGAGCAAGCTCGCCATCGTCTCTTCAACCAAGGAG  
 CTGAGCCGGCGGCTGCAAGGCTCTGGTGTGACTGTCAACGCCCTGCACCCGGCGTGGCC  
 AGGACAGAGCTGGGCAGACACACGGGCATCCATGGCTCCACCTTCTCCAGCACCACTC  
 GGGCCCATCTTCTGGCTGCTGGTCAAGAGCCCCGAGCTGGCCGCCAGCCAGCACATAC  
 CTGGCCGTGGCGGAGGAACTGGCGGATGTTTCCGAAAGTACTTCGATGGACTCAAACAG  
 AAGGCCCGGCCCGGAGGCTGAGGATGAGGAGGTGGCCCGGAGGCTTTGGGCTGAAAGT  
 GCCCGCTGGTGGGCTTAGAGGCTCCCTCTGTGAGGGAGCAGCCCCTCCCAGATAACCT  
 CTGGAGCAGATTTGAAAGCCAGGATGGCGCCTCCAGACCAGGACAGCTGTCGCCATGC  
 CCGCAGCTTCTGGCACTACCTGAGCCGGAGACCCAGGACTGGCGGCCGCCATGCCCGC  
 AGTAGGTTCTAGGGGGCGGTGCTGGCCGAGTGGACTGGCCTGCAGGTGAGCACTGCCCT  
 GGGCTCTGGCTGGTTCCGTCTGCTGCTGCCAGCAGGGGAGAGGGGCCATCTGATGCTT  
 CCCCTGGGAATCTAAACTGGGAATGGCCGAGGAGGAAGGGGCTCCGTGCACCTGCAGGCC  
 ACGTCAGGAGAGCCAGCGGTGCCTGTGGGGAGGGTTCCAAGGTGCTCCGTGAAGAGCAT  
 GGGCAAGTTGTCTGACACTTGGTGGATTCTTGGGTCCCTGTGGGACCTTGTGCATGCATG  
 GTCCTCTCTGAGCCTTGGTTTCTCAGCAGTGAGATGCTCAGAATAACTGCTGTCTCCCA  
 TGATGGTGTGGTACAGCGAGCTGTTGTCTGGCTATGGCATGGCTGTGCCGGGGTGTGTTG  
 CTGAGGGCTTCTGTGCCAGAGCCAGCCAGAGAGCAGGTGCAGGTGTCATCCTGAGTTC  
 AGGCTCTGCACGGCATGGAGTGGGAACCCACCAGCTGCTGTCTACAGGACCTGGGATTGC  
 CTGGGACTCCCACCTTCTATCAATTCTCATGGTAGTCCAAACTGCAGACTCTCAAACCT  
 GCTCATTTAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_138412

**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:**

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\\_138412.2](#), [NP\\_612421.1](#)

**RefSeq Size:** 2006 bp

**RefSeq ORF:** 783 bp

**Locus ID:** 112724

**UniProt ID:** [Q8NBN7](#)

**Cytogenetics:** 19q13.42

**Domains:** adh\_short

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a mitochondrial short-chain dehydrogenase/reductase, which catalyzes the reduction and oxidation of retinoids. The encoded enzyme may function in retinoic acid production and may also protect the mitochondria against oxidative stress. Alternatively spliced transcript variants have been described. [provided by RefSeq, Mar 2009]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.