

## Product datasheet for **SC126349**

### **RDH12 (NM\_152443) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RDH12 (NM_152443) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH12
Synonyms:	LCA13; RP53; SDR7C2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_152443 edited  
 GGATTCTGGGCTCTGCTCAGAGTCAGGCTGCTGCTCAGCACCCAGGACGGAGAGGAGCAG  
 AGAAGCAGCAGAAGCAGCCAAGAGCTGGAGCCAGACCAGGAACCTGAGCCAGAGCTGGGG  
 TTGAAGCTGGAGCAGCAGCAAAAGCAACAGCAGCTACAGAAGTTGGAACGATGCTGGTCA  
 CCTTGGGACTGCTCACCTCCTTCTCTCGTTCCGTATATGGTAGCTCCATCCATCAGGA  
 AGTTCTTTGCTGGTGGAGTGTGTAGAACAATGTGCAGCTTCTGGCAAGGTAGTGGTGA  
 TCACTGGCGCAACACGGGCATTGGCAAGGAGACGGCCAGAGAGCTCGCTAGCCGAGGAG  
 CCCGAGTCTATATTGCCTGCAGAGATGTACTGAAGGGGGAGTCTGCTGCCAGTGAATCC  
 GAGTGGATACAAAGAACTCCCAGGTGCTGGTGGGAAATTGGACCTATCCGACACCAAAAT  
 CTATCCGAGCCTTTGCTGAGGGCTTTCTGGCAGAGGAAAAGCAGCTCCATATTCTGATCA  
 ACAATGCGGGAGTAAATGATGTGTCCATATTCCAAGACAGCTGATGGCTTTGAAACCCACC  
 TGGGAGTCAACCACCTGGGCCACTTCTCCTCACCTACCTGCTCCTGGAGCAGCTAAAGG  
 TGTCTGCCCTGCACGGGTGTTAATGTGCTCCTCGGTGGCTCACACATTGGCAAGATTC  
 CCTTCCACGACCTCCAGAGCGAGAAGCGCTACAGCAGGGGTTTTGCCTATTGCCACAGCA  
 AGCTGGCCAATGTCTTTTTACTCGTGAGCTGGCCAAGAGGCTCCAAGGCACCGGGGTCA  
 CCACCTACGCAGTGCACCCAGGCGTCGTCGCTGAGCTGGTCCGGCACTCCTCCTCTGC  
 TCTGCCTGCTCTGGCGGCTCTTCTCCCCCTTTGTCAAGACGGCACGGGAGGGGGCGCAGA  
 CCAGCCTGCACTGCGCCCTGGCTGAGGGCCTGGAGCCCTGAGTGGCAAGTACTTCAAGT  
 ACTGCAAGAGGACCTGGGTGTCTCCAAGGGCCCGAAATAACAAAACAGCTGAGCGCCTAT  
 GGAATGTCAGCTGTGAGCTTCTAGGAATCCGGTGGGAGTAGTGGTGGAAAGAGCTGCAGC  
 TTTATCAGGCCAATCCATGCCATAATGAACAGGGACCAAGGAGAAGGCCAACCCATAAG  
 GATTGCTCTTTGGCCAGCTGGTGTCTGCGAATCCTGCCTGCTCTGATCCTTTGACCCTT  
 CTGGGAATGTTTGCACACCTGACACTCTTGTGAGACTGGCTTATGGCATGAGTTGTGGAC  
 ACCTATAGAGTGTCTTCTCTAAGACCTGGAAAAGTCAGCAACCCTCTGGGGCAGCAGGA  
 CTGGGCAGATCCCAGGCTGGGCATGGGGGTGGCAGAAGAGCCCGAATAATTGGTCAAGT  
 CCCTCATCAGCACCAGAGGCTCAGCTGAGGCAAGAAGAGCACCATCACTGCCTATTTCTA  
 GGGGCTATACACTCCAACCTTTGGTTGATCTCTTTCTTTTTAAAAATATTTGCCACCACC  
 CTGGAGCTAGACCAACACAAAAGATCCTGGTAACCCTGGCCTATTTAGATTCCTTCC  
 TCTCACCTGGACCTTCCATTTCAATCATGCAGATGGTTTCTTTTTGTAAAGAGTTCCGT  
 TTGCCTTTCAATTTTTAGAGAAAATAAAGACTGCATTCATCTCAAAAAAAAAAAAAAAAAA  
 AA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_152443 unedited  
 GGCTTTGGATTTGTATACGACTTACTATAGGCGGCCGCGTATTCANATCTGGTACCGGTC  
 CGGAATCCCAGGATAGGATTCTGGGCTCTGCTCAGAGTCAGGCTGCTGCTCAGCACCCA  
 GGACGGAGAGGAGCAGAGAAGCAGCAGAAGCAGCAAGAGCTGGAGCCAGACCAGGAACC  
 TGAGCCAGAGCTGGGGTTGAAGCTGGAGCAGCAGCAAAAGCAACAGCAGCTACAGAAGTT  
 GGAACGATGCTGGTCACCTTGGGACTGCTCACCTCCTTCTCTCGTTCCGTATATGGTA  
 GCTCCATCCATCAGGAAGTTCTTTGCTGGTGGAGTGTGTAGAACAATGTGCAGTTCCT  
 GGCAAGGTAGTGGTGATCACTGGCGCAACACGGGCATTGGCAAGGAGACGGCCAGAGAG  
 CTCGCTAGCCGAGGAGCCGAGTCTATATTGCCTGCAGAGATGTACTGAAGGGGGAGTCT  
 GCTGCCAGTGAATCCGAGTGGATACAAAGAACTCCCAGGTGCTGGTGGGAAATTGGAC  
 CTATCCGACACCAATCTATCCGAGCCTTTGCTGAGGGCTTTCTGGCAGAGGAAAAGCAG  
 CTCCATATTCTGATCAACAATGCGGGAGTAAATGATGTGTCCATATTCCAAGACAGCTGAT  
 GGCTTTGAAACCCACCTGGGAGTCAACCACCTGGGCCACTTCTCCTCACCTACCTGCTC  
 CTGGAGCAGCTAAAGGTGTCTGCCCTGCACGGGTGGTTAATGTGCTCCTGGTGGCTCAC  
 CACATTGGCAAGATTCCTTCCACGACCTNCAGAGCGAGAAGCGCTACAGCAGGGGTTTT  
 GCCTATTGCCACAGCAAGCTGGCCAATGTGCTTTTTACTCGTGAGCTGGCCAAGAGGGCT  
 CAAGGCACCGGGTCAACCACCTACGCAAGTCC

**Restriction Sites:** Please inquire  
**ACCN:** NM\_152443

<b>OTI Disclaimer:</b>	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).
<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_152443.1</a> , <a href="#">NP_689656.1</a>
<b>RefSeq Size:</b>	1780 bp
<b>RefSeq ORF:</b>	951 bp
<b>Locus ID:</b>	145226
<b>UniProt ID:</b>	<a href="#">Q96NR8</a>
<b>Cytogenetics:</b>	14q24.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism
<b>Gene Summary:</b>	The protein encoded by this gene is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. The encoded enzyme also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity. Defects in this gene are a cause of Leber congenital amaurosis type 13 and Retinitis Pigmentosa 53. [provided by RefSeq, Sep 2015]