

## Product datasheet for **SC108057**

### **RDH11 (NM\_016026) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RDH11 (NM_016026) Human Untagged Clone
Tag:	Tag Free
Symbol:	RDH11
Synonyms:	ARSDR1; CGI82; HCBP12; MDT1; PSDR1; RALR1; RDJCSS; SCALD; SDR7C1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108057 sequence for NM_016026 edited (data generated by NextGen Sequencing)

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ATGGTTGAGCTCATGTTCCCGCTGTTGCTCCTCCTTCTGCCCTTCTTCTGTATATGGCT
CGCCCCAAATCAGGAAATGCTGTCCAGTGGGGTGTGTACATCAACTGTTGAGCTTCTT
GGGAAAGTAGTTGTGGTCACAGGAGCTAATACAGGTATCGGGAAGGAGACAGCCAAAGAG
CTGGCTCAGAGAGGAGCTCGAGTATATTTAGCTTGCCGGGATGTGAAAAGGGGAATTG
GTGGCCAAAGAGATCCAGACCACGACAGGGAACCAGCAGGTGTTGGTGGGAAACTGGAC
CTGTCTGATACTAAGTCTATTCGAGCTTTTGCTAAGGGCTTCTTAGCTGAGGAAAAGCAC
CTCCACGTTTTGATCAACAATGCAGGAGTGATGATGTGTCGTAAGACAGCAGAT
GGCTTTGAGATGCACATAGGAGTCAACCACTTGGGTCACCTCCTCCTAACCCTCTGCTG
CTAGAGAAACTAAAGGAATCAGCCCATCAAGGATAGTAAATGTGTCTTCCCTCGCACAT
CACCTGGGAAGGATCCACTTCCATAACCTGCAGGGCAGAAATCTACAATGCAGGCCTG
GCCTACTGTACAGCAAGCTAGCCAACATCCTTCTCACCAGGAACTGGCCCGGAGACTA
AAAGGCTCTGGCGTTACGACGATTCTGTACACCCTGGCACAGTCCAATCTGAACTGGTT
CGGCACTCATCTTTATGAGATGGATGTGGTGGCTTTTCTCCTTTTTCATCAAGACTCCT
CAGCAGGGAGCCCAGACCAGCCTGCACTGTGCCTTAACAGAAGGTCTTGAGATTCTAAGT
GGGAATCATTTTCAGTGACTGTGATGTGGCATGGGTCTCTGCCAAGCTCGTAATGAGACT
ATAGCAAGGCGGCTGTGGGACGTCAGTTGTGACCTGCTGGGCCTCCCAATAGACTAA
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Clone variation with respect to NM\_016026.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_016026 unedited  GGTCAGGTTTTGTAATCCGCACTTCNTATAGGGCGTGCCGCGCATTTCGGCACGAGGCAAC  GCTGGATCATCCCCTCTGGTGCCGCTGCAGCCGGCAGAGATGGTTGAGCTCATGTTCCC  GCTGTTGCTCCTCCTTCTGCCCTTCCTTCTGTATATGGCTGCGCCCAAATCATGAAAT  GCTGTCCAGTGGGGTGTGTACATCAACTGTTTCTGCTGGGAAAGTAGTTGTGGTCCAC  AGGAGCTAATACAGGTATCGGGAAGGAGACAGCCAAAGAGCTGGCTCATAGAGGAGCTCG  AGTATATTTAGCTTGCCGGGATGTGAAAAGGGGAATTGGTGGCCAAAGAGATCCAGAC  CAGCACAGGGAACCAGCAGGTGTTGGTGCAGAACTGGACCTGTCTGATACTAAGTCTAT  TCGAGCTTTTGCTAAGGGCTTCTTATCTGAGGAAAAGCACCTCCACGTTTTGATCAACAA  TGCAGGAGTGATGATGTGTCCGTAAGACAGCAGATGGCTTTGAGATGCACATAGG  AGTCAACCACTTGGGTCCTTCCCTAACCCTCTGCTGCTAGAGAACTAAAGGAATC  AGCCCCATCAAGGATAGTAAATGTGTCTCCCTCGCACATCACCTGGGAAGGATCCACTT  CCATAACCTGCATGGCGATGAATTCTACAATGCATGCCTGGCCTACTGTCACAGCAAGCT  AGCCAACATCCTTTCACCCAGGAACTGGCCCGGAGACTAATATGCTCTGGCGTTACGAC  GTATTCTGTACACCCTGGCACAGTCCAATCTGAACTGGNTTCGCACTCATNCTTCATGAG  ATGGATGTGGTGGCTTTTCTCTTTTATCAAGACTCCTCAGCAGGGAGCCAGACAGCC  TGCACTGTGCCTTACAGAAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_016026 unedited  NNNACCCCAACCCCAACCCCAACCCCAACCCCAATTTACTTGAACCCGGCCCAATCTAGAT  CGAGTTTTTTTTTTTTTTTTTTTGGCACACTGGTTTTTGTAAAGACCTCATCAGCCTGGG  TGCTTGCCCTCAATTCCTCCATAGCTATGTTAGCATATTTAATATCTTTTGCTATTAATC  CTTAACTAGTTAATCCTTAAAGGGCTAGTTAATCCTTAACTAGTCCCTTCATTTTGTGCA  TTATCTTCCAGTATTCTCCTTCTTTTTTTACTTCTTCCCTGCTACCCATGTGCTCTTG  GTGGGTAGTTACCAACATATACAGAATCTGCTTCCCTTTCGAGCATTTCATTTGCATAAA  GACTGGATGGCACTGGTTTTGCTCCATCTCTGATTATTGTGGCTGTTTTGAACTTTGTGAA  AATACTCCCTTGGCACACATAAACAGGAAGACACAAAGATATACAAATTTTTAGTAG  AGGTGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACACTGACCTCCGGTGATCCAC  CATGCCTGGGCAAGCCCTGCTCCTGAGCCAGTCTTTGTTATTCATGTTAAGCTGAGGTTG  CAGTGTGGCCCTCTTGAAGTGAAGACTGGTTGGTGGGAGGAAGTGAATTGTGAACAAAG  AAGCTAGTTCAAATTTGCATACATCATCCCTGCTATAGCTTAGATTCTCCTAGGTAGTAG  TTTTTTTCAACAAGGAAAATGAGCTGTGCCGGCCATATGAGGGTCTCTATCCTATTATG  ATATCTTAGGAACTTTGGCCGTACCAGAAGCAAAGTAAATCTGGACATGACAGAAGTTT  AAACCAATTTGGCAGTACACTGAGTTTTAACTGGACCAAGCAGCAAGCTGGAAGGTTT  GCTCTCTTTGGGCTAA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016026
<b>Insert Size:</b>	2000 bp
<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_016026.2</a> , <a href="#">NP_057110.2</a>
<b>RefSeq Size:</b>	2538 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	51109
<b>UniProt ID:</b>	<a href="#">Q8TC12</a>
<b>Cytogenetics:</b>	14q24.1
<b>Domains:</b>	adh_short
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an NADPH-dependent retinal reductase and a short-chain dehydrogenase/reductase. The encoded protein has no steroid dehydrogenase activity. [provided by RefSeq, Nov 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>