

## Product datasheet for **MC202918**

### **Rdh11 (NM\_021557) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rdh11 (NM_021557) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rdh11
Synonyms:	2610319N22Rik; AI428145; Arsdr1; AU045252; C85936; CGI-82; HCBP12; M42C60; Mdt1; Psdr1; SCALD
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC018261 sequence for NM\_021557  
 GTCCCCGTGCCTCTTTAGAGCATCAACTTCAACTGCGCTTCGGTGGTGCAGATGTTCCGATTCTGC  
 TTCTGCTCTCTTCCCTTCATCCTGTACTTGGTCACGCCAAAAATCAGGAAAATGCTGTCCAGTGGGGT  
 GTGCACATCTAATGTTTCAGCTTCCCGGGAAGGTAGCCATAGTCACTGGTGTCTAACACAGGCATTGGGAAG  
 GAGACAGCTAAAGATCTGGCCAAAGAGGAGCCCGTGTGATTTAGCTTCCCGGGATGTGGACAAGGGG  
 AACTGGCGGCTCGTGAGATCCAAGCCGTACAGGGAACAGTCAAGTCTTCGTACGGAAAATGGACCTAGC  
 GTATACCAAGTCTATTCGAGCCTTTGCCAAAGACTTCTTAGCTGAGGAAAAGCATCTGCACCTTCTCATC  
 AACAAATGCGGGCGTGATGATGTGCCCTACTCGAAGACTGCAGACGGCTTTGAGATGCACATTGGCGTCA  
 ACCACCTGGGTCACTTCCCTCTGACCCATTTGCTGCTAGAAAAGCTGAAGGAGTCGGCCCATCAAGGAT  
 AGTCAACTTGTCTTCTTTGGGACACCATCTGGGCAGGATCCACTTCCATAACCTGCAGGGGGAGAAGTTC  
 TACAGTGCGGGTCTCGCTACTGCCACAGCAAAGTCCAAACATTCTTCTACTAAGGAGCTGGCCAAGA  
 GGCTGAAAGGTTCTGGAGTGACAACATACTCTGTACACCCTGGCACAGTCCATTCTGAATTGACGCGGTA  
 CTCCTCTATTATGAGATGGCTTTGGCACTTTTCTTTGTTTTATCAAGACCCTCAAGAGGGAGCTCAG  
 ACGAGCCTGTACTGTCCCTGACAGAAGGTCTCGAGAGCCTAAGTGGCAGTCATTTCAAGTATTGCCAGT  
 TGGCATGGGTCTTTACCAAGGTGCAATGAGATAATAGCCAGGGCGCTGTGGGATGTCAGCTGTGACCT  
 GCTGGGCCTCCAGTGGATTGGTAAGTGGTGGTTTGGACTCAAAAAGAAGATTGGAGGAGATGATGATTAT  
 CCTTCAAAGTGGCCAAAACCTTGAACCTGAAGAGCGAAGAAGTCAAGCCTTTCCTGCTTGGCATCCAGT  
 TAAATCCTAGTACACTGCCAGGTTCTCGAAAACCCCTTGAGTTTGTATTGACTTATTTTGTCTGCCCC  
 TGCCAGCGTTTCTAGTGGTATCACTAAGACAGAGGACCTTCATGTGACCTACACAGCTCCTATTTTCTT  
 TGGAACTCCCCTAACCAGGAGCATGAAAGCCCTATGAAGATTGGTACATGACAATGTGGATTAGATGG  
 AGCTCCTCCGAGCCGACCATCCTCTCTTGAAGAACTCCATTGTAACCTCAGTGAACCTCAGGAGTCCC  
 GGAGCCTGGTCAAGGGCAGGACGGCTTTGTGGTCCCAACATCTGGATACTTAAGAAAAGTTTTTACTA  
 AATCTGGCAGCTGAAGCTTTGGCTTCTGAGACACTTTTCTATGTCCAGACCCTGAAGAACTTCTTCT  
 CTAAAGAAATTTGGGATTTGAAGGGCAGAGATAAAAATAAAGCCAAACTGTCATTTTCTCCCGTCTT  
 CTCAGCCTAGTAAGGAGGTAATGAAAGGAACGGTATGAGACGATAGGTCAGTGGGTCAGTACTGACCC  
 CAGACCCACAGAGGCTCTTTTTGTGCCTTAGTTTCTTCTTAGGAACTAGAAAAGGAAAGGCTTCTCA  
 TTGTCTTGTGTCGATTTTGTGTCTTCTTGTGCATTGATGAGTTGAATGTGTTCCACAAAATTCAC  
 AATAGCCACAAAGGAAAAGTTCTTAATCAGACTGTAGTGTAGACAAATTACCAGAGATGGGACAAATCAC  
 TGTGGAGTCTTTGAGTACAGTTGCAAAGCAAGGGAGACACTATCTGTGTTGAATCGTCACTGAGAAGC  
 ACAGATGCCGAGGGAAGAAGTTTAAAAGAAAAATCCTAGGAGGGGACACATGATAATGAAGGGTCAAGC  
 TGAGGATCTAAAACCATACGAAAGGCAGTAATAGACAGCTACAGAAAGGCACACTGTCTTAATCACCA  
 GTCAGTACAGAGTATAGGAAAATGTCCAAAGCACAAGAGTGAAATACTTCTCTATTACAGAAATGTTATCC  
 TAAGGATTGGTAATTATAGTCAGTTCATAATCTTTAGAGCATTTTCTTACATTAGCTTAAACAAGATGTC  
 CATTTCAGGAATGTGTATGGAGAGATGGGATGGCTTAGTAATGCCTGCTGTTCCAGAGGACCCCTGGTTCA  
 ATTACTAGGACCCACTTGGCAACCACAACCATCTATAACCTCAGTTATAGATGATCTAGAGGATCAGACA  
 GCCTCATCTACCTCCACAGGCCCTGCAGGAATGTGGTGCATAGATATATATGCAGGCACACATACAAATA  
 ATTTTGTAAAAAAAAGAAATCAATTTGACTTTGGGGTATGCTCTCCTGAAATGTTGAGGCCCTGG  
 GTTTGTATCCAGCACTGCAAAAAGAAAGTAGAGATAGCCTCAATTTACTACGATTCTGCTTATTTGGAGA  
 GCTTTTATCAAAAGCAATGCAGACCAAGGGTGTGAGGAATCCCTCATGTTCCCATCACTGGTTTGGAGGA  
 TGCTATTCTAAGGGAGTTTGCCATTTCCCGGGCTGACAATTATATTTTAAAGCTTGAATATGTAAGACTG  
 ACAGGACCACAATCTTTAACTTCTAATATTTGTAATTAATAATTTATGGGTTTGTCTGCCCAATAAA  
 CGTATTTTAAATTAATAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_021557

**Insert Size:** 951 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).

<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>	<u><a href="#">BC018261</a></u> , <u><a href="#">AAH18261</a></u>
<b>RefSeq Size:</b>	2832 bp
<b>RefSeq ORF:</b>	951 bp
<b>Locus ID:</b>	17252
<b>UniProt ID:</b>	<u><a href="#">Q9QYF1</a></u>
<b>Cytogenetics:</b>	12 35.51 cM
<b>Gene Summary:</b>	Retinol dehydrogenase with a clear preference for NADP (PubMed:12807874, PubMed:29567832). Displays high activity towards 9-cis, 11-cis and all-trans-retinol, and to a lesser extent on 13-cis-retinol (By similarity) (PubMed:12807874). Exhibits also reductive activity towards toxic lipid peroxidation products such as medium-chain aldehydes trans-2-nonenal, nonanal, and cis-6-nonenal (PubMed:12807874). Has no dehydrogenase activity towards steroid (PubMed:12807874). Seems to be required for homeostasis of retinol in liver and testis (PubMed:29567832).[UniProtKB/Swiss-Prot Function]