

## Product datasheet for **MC204040**

### Rdh5 (NM\_134006) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh5 (NM_134006) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rdh5
Synonyms:	9-cis; AI987873; cRDH; RDH4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC021372 CCACGCGTCCGGAAAGCTACAGCTTACACATTGTGTGCTGCCAGCTTCCCCAGAGCCTAGGCTGCC CTCAGCAGGGCATCTCATCCCATCATGTGGCTGCCTCTGCTTCTGGGTGCCTTGCTGTGGGCAGTGTGT GGTTGCTCAGAGACCGGCAGAGCCTGCCGGCCAGTGATGCTTTCATCTTCACTGACTGTGACTCTGG CTTTGGGCGCCTTCTGGCACTGCAACTTGACCAGAAGGGCTTCCAAGTCCTGGCCGGCTGCCTGACCCCC TCTGGAGCAGAAGACCTGCAGCAGATGGCCTCCTCCCGCCTCCACACAACACTACTGGATATCACTGATC CCCAGAAATGTCCAGCAAGTTGCCAAGTGGGTGAAGACACGTGTTGGAGAACTGGACTTTTTGGTCTGGT GAATAACGCTGGCGTAGCTGGTATCATCGGGCCACACCATGGCTAACACAGGATGATTTCCAGAGAGTA CTGAGTGTGAACACACTGGGGCCCATCGGTGTACCCCTTGCCTGCTGCCCTGCTACAGCAGGCCAGGG GTCGGGTGGTCAACATCACCAGTGTCTTGGCCGCATAGCAGCCAATGGCGGGGGCTACTGTGTCTCCAA GTTTGGCCTGGAGCCTTCTCTGACAGCCTGAGGCGGGACATGGCTCCGTTCCGGAGTACAAGTCTCCATT GTGGAGCCTGGCTTCTTTGCAACCCCTGTGACCAACCTGGAGAGTCTGGAGAGCACCTGAAGGCTTGT GGGCCCCGCTACCTCCAGCTATACAGGCCCACTACGGGGAAGCCTTCTCGATACTTATCTTCGAGTACA GCGCCGCATCATGAACCTGATCTGTGACCCAGAATAACGAAGGTGACCAGCTGCCTGGAGCATGCCCTG ACTGCTCGCCACCCCGAACACGCTACAGCCCAGGCTGGGATGCCAAGCTGCTCTGGCTGCCTGCCTCCT ACCTTCCAGCCAGGGTGGTGGATGCTGTGCTCACCTGGATCCTTCCCCGGCCCGCCAGTCAGTCTCCTG ATTCCAGCTTTACAGCAAGAGGCTGATTTTAAAAAGCAAGGCATCTATTTCTGTGTCTACCCAGTGTGC CTGGTTTCTGATACCAATTAGGCTCTCAATAAATATGTATTGCTTTAAATCAAAAAAAAAAAAAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_134006
Insert Size:	957 bp



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<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>	<u><a href="#">BC021372</a></u> , <u><a href="#">AAH21372</a></u>
<b>RefSeq Size:</b>	1186 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	19682
<b>UniProt ID:</b>	<u><a href="#">O55240</a></u>
<b>Cytogenetics:</b>	10 77.19 cM
<b>Gene Summary:</b>	Catalyzes the oxidation of cis-isomers of retinol, including 11-cis-, 9-cis-, and 13-cis-retinol in an NAD-dependent manner (PubMed:10588954, PubMed:9539749). Has no activity towards all-trans retinal (By similarity). Plays a significant role in 11-cis retinol oxidation in the retinal pigment epithelium cells (RPE). Also recognizes steroids (androsterone, androstanediol) as its substrates (By similarity).[UniProtKB/Swiss-Prot Function]