

## Product datasheet for MR228872

### Rdh13 (NM\_001290411) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rdh13 (NM\_001290411) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rdh13  
**Synonyms:** 8430425D21Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228872 representing NM\_001290411  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGAAGTGCAGGTGGCTGCAAAGGACATTCGAGGAGAGACCTTGAATCCCCGGTACGTGCTGAAC  
GCCTAGACTTGGCTTCCCTCAAGTCCATCCGAGAGTTTGAAGGAAGGTCATTAAGAGGAGGAGCGAGT  
AGACATTCTGGTCAACAACGCAGCCGTGATGCGGTGCCACACTGGACACTGAGGATGGCTTTGAGATG  
CAGTTTGGTGTCAACTACTTGGGGCATTCTATTGACAAATTTGCTGTTGGACAAGCTGAAGGCCCTCGG  
CCCCATCACGCATCATCAATCTCTCGTCCCTGGCTCACGTTGCTGGGCACATAGACTTCGAGGACTTGAA  
CTGGCAGATGAAAAAGTATGACACCAAGGCAGCCTACTGCCAGAGCAAGTTGGCTGTTGCTCTTACC  
AAGGAGCTGAGCCACCGGCTGCAAGGCTCTGGTGTGACGGTCAATGCACTGCACCCTGGTGTGGCCAGGA  
CAGAGCTGGGGCGACATACGGGCATGCACAACTCTGCCTTCTCTGGCTTCATGCTTGGGCCCTTCTTCTG  
GCTGCTGTTCAAGAGTCCCAGCTGGCGGCCAGCCAGCACATATCTGGCCGTGGCAGAAGAAGTGGAG  
AATGTTTCGGGAAGTACTTTGATGGACTCAGAGAGAAGGCTCCATCTCCTGAGGCTGAAGATGAGGAAG  
TAGCCCCGAGACTTTGGACGAAAAGTGCCGTTTGGTGGGCTTGGCCATGGCTCATGGATCCCCTGGGAG  
AGGACATGCCATTCCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228872 representing NM\_001290411  
 Red=Cloning site Green=Tags(s)

MEKCEVAAKDIRGETLNPRVRAERLDLASLKSIREFARKVIKEEERVDILVNNAVMRCPHWTTEDGFEM  
 QFGVNYLGHFLLTNLLLDKLGASAPSRINLSSLAHVAGHIDFEDLNWQMKKYDTKAAAYCQSKLAVVLF  
 KELSHRLQGGSVTVNALHPGVARTELGRHTGMHNSAFSGFMLGPFWLLFKSPQLAAQPSTYLAVAEEL  
 NVSGKYFDGLREKAPSPEAEDEEVARRLWTESARLVGLAMAHGSPGRGHAIPR

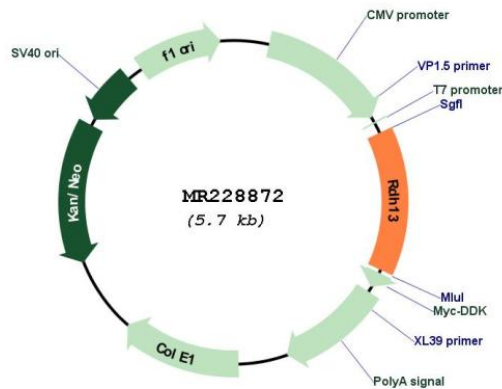
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001290411  
**ORF Size:** 789 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001290411.1</a> , <a href="#">NP_001277340.1</a>
<b>RefSeq Size:</b>	3077 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	108841
<b>UniProt ID:</b>	<a href="#">Q8CEE7</a>
<b>Cytogenetics:</b>	7 A1
<b>MW:</b>	29.8 kDa
<b>Gene Summary:</b>	Retinol dehydrogenase with a clear preference for NADP. Oxidizes all-trans-retinol, but seems to reduce all-trans-retinal with much higher efficiency. Has no activity towards steroid. [UniProtKB/Swiss-Prot Function]