

## Product datasheet for MR204963

### Rdh13 (NM\_175372) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh13 (NM_175372) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rdh13
Synonyms:	8430425D21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204963 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCCGCTTTCTGCTGCCGGTGTCCGTAGTGGGCACGGTGATCGGCCGCACCCTGCTGCTCAAGGACT  
ATGTCGCTGGTGGGGCTTGTCAGCAAGGCCACCATACCTGGGAAGACTGTTATCGTGACAGGAGCCAA  
CACAGGCATCGGGAAACAACTGCTTTGGAGCTGGCTAAAAGAGGAGGCAACGTCATTCTGGCCTGTCGT  
GACATGGAGAAGTGGGAGGTGGCTGCAAAGGACATTCGAGGAGAGACCTGAATCCCCGGTACGTGCTG  
AACGCCTAGACTTGGCTTCCCTCAAGTCCATCCGAGAGTTTGCAAGGAAGTTCATTAAGAGGAGGAGCG  
AGTAGACATTCTGGTCAACAACGCAGCCGTGATGCGGTGCCACACTGGACCACTGAGGATGGCTTTGAG  
ATGCAGTTTGGTGTCAACTACTTGGGGCATTCTTATTGACAAATTTGCTGTTGGACAAGCTGAAGGCC  
CGGCCCATCACGCATCATCAATCTCTCGTCCCTGGCTCACGTTGCTGGGCACATAGACTTCGAGGACTT  
GAAGTGGCAGATGAAAAAGTATGACACCAAGGCAGCCTACTGCCAGAGCAAGTTGGCTGTTGCTCCTTTC  
ACCAAGGAGCTGAGCCACCGCTGCAAGGCTCTGGTGTGACGGTCAATGCACTGCACCCTGGTGTGGCCA  
GGACAGAGCTGGGGCGACATACGGGCATGCACAACTCTGCCTTCTCTGGCTTCATGCTTGGGCCCTTCTT  
CTGGCTGCTGTTCAAGAGTCCCCAGCTGGCGGCCAGCCAGCACATATCTGGCCGTGGCAGAAGAAGT  
GAGAATGTTTCGGGGAAGTACTTTGATGGACTCAGAGAGAAGGCTCCATCTCCTGAGGCTGAAGATGAGG  
AAGTAGCCCGCAGACTTTGGACGGAAAGTGCCCGTTTGGTGGGCTTGGCCATGGCTCATGGATCCCCTGG  
GAGAGGACATGCCATTCCAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204963 protein sequence  
Red=Cloning site Green=Tags(s)

```
MSRFLLPVSVVGTIVIGTVLLKDYVAGGACPSKATIPGKTVIVTGANTGIGKQTALELAKRGGNVILACR
DMEKCEVAAKDIRGETLNPRVRAERLDLASLKSIREFARKVIKEEERVDILVNNAVMRCPHWTTEDGFE
MQFGVNYLGHFLLTNLLLDKLGKASAPSRINLSSLAHVAGHIDFDLNLWQMKKYDTKAAYCQSKLAVVLF
TKELSHRLQSGSVTVNALHPGVARTELGRHTGMHNSAFSGFMLGPFFWLLFKSPQLAAQPSTYLVAEEL
ENVSGKYFDGLREKAPSPAEEDEEVARRLWTESARLVGLAMAHGSPGRGHAIPR
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_175372

**ORF Size:** 1005 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_175372.4](#)

**RefSeq Size:** 3044 bp

**RefSeq ORF:** 1005 bp

**Locus ID:** 108841

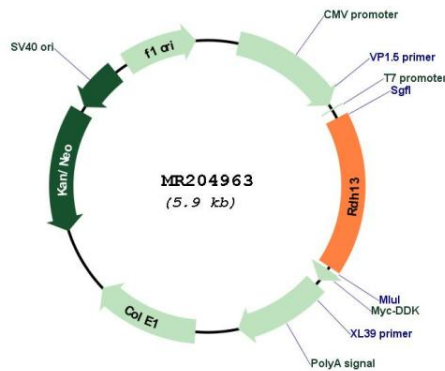
**UniProt ID:** [Q8CEE7](#)

**Cytogenetics:** 7 A1

**MW:** 36.5 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR204963