

Product datasheet for **MR229101**

Rdh13 (NM_001290409) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rdh13 (NM_001290409) 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: >MR229101 representing NM_001290409
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCCGCTTTCTGCTGCCGGTGCCGTAGTGGGCACGGTGATCGGCCGCACCGTGCTGCTCAAGGACT
ATGTCGCTGGTGGGGCTTGTCAGCAAGGCCACCATACCTGGGAAGACTGTTATCGTGACAGGAGCCAA
CACAGGCATCGGAAACAACTGCTTTGGAGCTGGCTAAAAGAGGAGGCAACGTCATTCTGGCCTGTCGT
GACATGGAGAAGTGCGAGGTGGCTGCAAAGGACATTCGAGGAGAGACCTGAATCCCCGCGTACGTGCTG
AACGCCTAGACTTGGCTCCCTCAAGTCCATCCGAGAGTTTGCAAGGAAGGTCATTAAAGGGCATTCTTCT
ATTGACAAATTTGCTGTTGGACAAGCTGAAGGCCTCGGCCCATCACGCATCATCAATCTCTCGTCCCTG
GCTCACGTTGCTGGGCACATAGACTTCGAGGACTTGAAGTGGCAGATGAAAAAGTATGACACCAAGGCAG
CCTACTGCCAGAGCAAGTTGGCTGTTGTCCTTTCACCAAGGAGCTGAGCCACCGGCTGCAAGGCTCTGG
TGTGACGGTCAATGCACTGCACCCTGGTGTGGCCAGGACAGAGCTGGGGCGACATACGGGCATGCACAAC
TCTGCCTTCTCTGGCTTCATGCTTGGCCCTTCTCTGGCTGCTGTTCAAGAGTCCCCAGCTGGCCGGCC
AGCCCAGCACATATCTGGCCGTGGCAGAAGAAGTGGAGAATGTTTCGGGGAAGTACTTTGATGGACTCAG
AGAGAAGGCTCCATCTCCTGAGGCTGAAGATGAGGAAGTAGCCCGCAGACTTTGGACGGAAGTGCCCGT
TTGGTGGGCTTGCCATGGCTCATGGATCCCCTGGGAGAGGACATGCCATTCCCAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR229101 representing NM_001290409
 Red=Cloning site Green=Tags(s)

MSRFLLPVSVVGTIVIGTVLLKDYVAGGACPSKATIPGKTVIVTGANTGIGKQTALELAKRGGNVILACR
 DMEKCEVAAKDIRGETLNPRVRAERLDLASLSIREFARKVIKGFLLTNLLDLKLKASAPSRINLSSL
 AHVAGHIDFEDLNWQMKKYDTKAAAYCQSKLAVVLFTELSHRLQSGSVTVNALHPGVARTELGRHTGMHN
 SAFSGFMLGPFWLLFKSPQLAAQPSTYLAVAELENVSGKYFDGLREKAPSPEAEDEEVARRLWTESAR
 LVGLAMAHGSPGRGHAIIPR

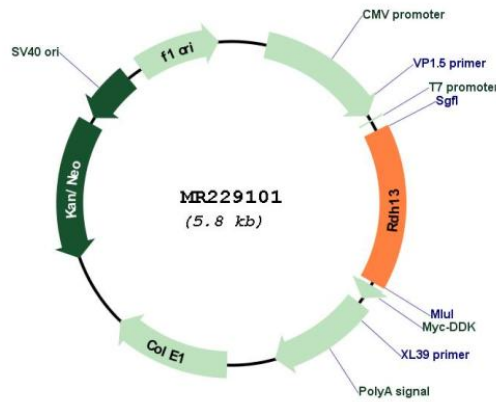
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290409

ORF Size: 897 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:	<ol style="list-style-type: none">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_001290409.1 , NP_001277338.1
RefSeq Size:	2939 bp
RefSeq ORF:	900 bp
Locus ID:	108841
UniProt ID:	Q8CEE7
Cytogenetics:	7 A1
MW:	32.8 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]