

Product datasheet for MR205116

Rdh10 (NM_133832) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh10 (NM_133832) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rdh10
Synonyms:	3110069K09Rik; 4921506A21Rik; AI875664; AW549993; D1ErtD762e; m366Asp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205116 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATCGTAGTGGAGTTCTTCGTGGTCACTTTCAAAGTGCTGTGGCGTTCGTGCTGGCCGCGGCGC
GCTGGCTGGTGCGCCCAAGGAGAAGAGCGTGGCCGCCAGGTGTGCCTCATCACGGCGCGGGCAGCGG
CCTGGCCGCCTCTTTGCTCTCGAGTTCGCCCGCGCCGGCGCTGCTGGTTCTCTGGGACATCAACACG
CAGAGCAATGAGGAGACCGCAGGCATGGTTCGCCACATCTACCGGACCTGGAGGCGCCGACGCTGCTG
CTCTGCAAGCTGGAAAAGGTGAGGAGAAATCCTGCCCCGTGTAACCTACAGGTTTTTACCTACACTTG
TGACGTGGGAAGAGAGAGAATGTCTACCTGACAGCTGAAAGGGTCCGCAAGGAGTTGGCGAGGTCTCG
GTCCTGGTCAATAATGCTGGTGTGGTTTCTGGACATCACCTTCTGGAATGCTCTGATGAGCTCATTGAAA
GAACCATGATGGTCAACTGCCACGCACACTTCTGGACCACTAAGGCCTTCTTCCAACGATGCTAGAGAT
TAATCATGGCCACATTGTGACGGTCGCGAGCTCCCTGGGACTGTTGAGCACTGCTGGAGTTGAGGATTAC
TGTGCCAGTAAATTTGGAGTTGTGGTTTTACGAGTCTCTGAGCCATGAGCTAAAGGCTGCTGAAAAGG
ATGGAATTAACAACACTCGTTTTGCCCTTACCTGTAGACACGGCATGTTGAGGCTGCCGAATCAG
AAAAGAAATTGAGCCCTTTTTGCCCTTGAAGCCTGATTACTGTGTGAAGCAGGCTATGAGGGCCATC
CTCACTGACCAGCCCATGGTCTGCACGCCCGCCTCATGTACATCGTACATTGTAAGAGCATCCTTC
CTTTTGAAGCCGTCGTGTGCATGTATCGATTTCTAGGAGCGGACAAGTGTATGTATCCCTTTATTGCTCA
AAGAAAACAAGCCACAAACAACATGAAGCAAAAATGGAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205116 protein sequence
Red=Cloning site Green=Tags(s)

MNIVVEFFVVTFKVLWAFVLAARWLVRPKEKSVAGQVCLITGAGSGLGRLFALEFARRRALLVLDINT
 QSNEETAGMVRHIYRDLEAADAALQAGKGEELPPCNLQVFTYCDVGKRENVYLTAEVRKEVGEVS
 VLVNAGVVS GHLLLECPDELIERTMMVNCHAHFWTTKAF LPTMLEINHGHIVTVASSLGLFSTAGVEDY
 CASKFGVVGFHESLSHELKAAEKDGIKTTLVCPYLVD TGMFRGCRIRKEIEPFLPPLKPDYCVKQAMRAI
 LTDQPMVCTPRLMYIVTFMKSILPFEAVVCMYRFLGADKCMYFFIAQRKQATNNNEAKNGI

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_133832

ORF Size: 1026 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_133832.2](#)

RefSeq Size: 2295 bp

RefSeq ORF: 1026 bp

Locus ID: 98711

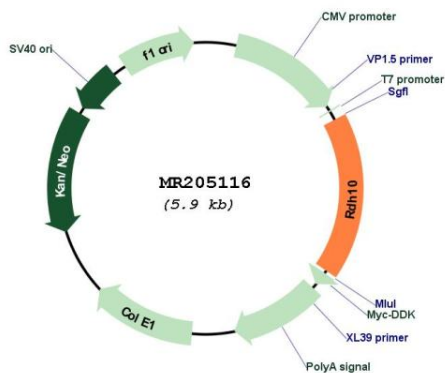
UniProt ID: [Q8VCH7](#)

Cytogenetics: 1 4.94 cM

MW: 38.1 kDa

Gene Summary: Retinol dehydrogenase with a clear preference for NADP. Converts all-trans-retinol to all-trans-retinal. Has no detectable activity towards 11-cis-retinol, 9-cis-retinol and 13-cis-retinol (By similarity). Required for normal embryonic development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205116