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Product datasheet for MR204536

Rdh11 (NM_021557) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh11 (NM_021557) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rdh11
Synonyms:	2610319N22Rik; AI428145; Arsdr1; AU045252; C85936; CGI-82; HCBP12; M42C60; Mdt1; Psdr1; SCALD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204536 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCGGATTCCTGCTTCTGCTCTCTCTTCCCTTCATCCTGTACTTGGTCACGCCAAAAATCAGGAAAA
TGCTGTCCAGTGGGGTGTGCACATCTAATGTTCAGCTTCCCGGGAAGGTAGCCATAGTCACTGGTGCTAA
CACAGGCATTGGGAAGGAGACAGCTAAAGATCTGGCCCAAAGAGGAGCCCGTGTGTATTTAGCTTGCCGG
GATGTGGACAAGGGGGAACTGGCGGCTCGTGAGATCCAAGCCGTCACAGGGAACAGTCAGGTCTTCGTAC
GGAAACTGGACCTAGCTGATACCAAGTCTATTCGAGCCTTTGCCAAAGACTTCTTAGCTGAGGAAAAGCA
TCTGCACCTTCTCATCAACAATGCGGGCGTGATGATGTGCCCCTACTCGAAGACTGCAGACGGCTTTGAG
ATGCACATTGGCGTCAACCACCTGGGTCACTTCCTCCTGACCCATTTGCTGCTAGAAAAGCTGAAGGAGT
CGGCCCCATCAAGGATAGTCAACTTGTCTTCTTTGGGACACCATCTGGGCAGGATCCACTTCCATAACCT
GCAGGGGGAGAAGTTCTACAGTGCGGGTCTCGCGTACTGCCACAGCAAACTAGCCAACATTCTCTTCACT
AAGGAGCTGGCCAAGAGGCTGAAAGGTTCTGGAGTGACAACATACTCTGTACACCCTGGCACAGTCCATT
CTGAATTGACGCGGTACTCCTCTATTATGAGATGGCTTTGGCAACTTTTCTTTGTTTTCATCAAGACCCC
TCAAGAGGGAGCTCAGACGAGCCTGTACTGTGCCCTGACAGAAGGTCTCGAGAGCCTAAGTGGCAGTCAT
TTCAGTGATTGCCAGTTGGCATGGGTCTCTTACCAAGGTCGCAATGAGATAATAGCCAGGCGGCTGTGGG
ATGTCAGCTGTGACCTGCTGGGCCTCCCAGTGGATTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

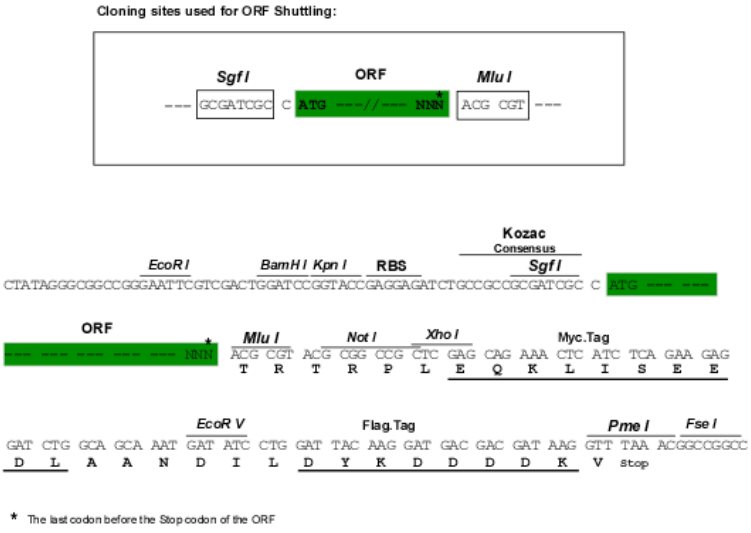
>MR204536 protein sequence
Red=Cloning site Green=Tags(s)

MFGFLLLLSLPFILYLVTPKIRKMLSSGVCTSNVQLPGKVAIVTGANTGIGKETAKDLAQRGARVYLACR
DVDKGELAAREIQAVTGNSQVFVRKLDLADTKSIRAFAKDFLAEEKHLHLLINNAGVMMCPYSKTADGFE
MHIGVNHLGHFLLTHLLLEKLKESAPSRIVNLSSLGHHLGRIHFHNLQGEKFYSAGLAYCHSKLANILFT
KELAKRLKGSGVTTYSVHPGTVHSELTRYSSIMRWLWQLFFVFIKTPQEGAQTSLYCALTEGLESLSGSH
FSDCQLAWVSYQGRNEIIARRLWDVSCDLLGLPVDW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021557

ORF Size: 951 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_021557.6

RefSeq Size: 1574 bp

RefSeq ORF: 951 bp

Locus ID: 17252

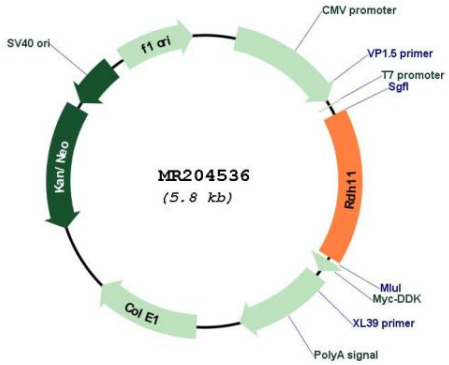
UniProt ID: Q9QYF1

Cytogenetics: 12 35.51 cM

MW: 35.1 kDa

Gene Summary: Retinol dehydrogenase with a clear preference for NADP (PubMed:12807874, PubMed:29567832). Displays high activity towards 9-cis, 11-cis and all-trans-retinol, and to a lesser extent on 13-cis-retinol (By similarity) (PubMed:12807874). Exhibits also reductive activity towards toxic lipid peroxidation products such as medium-chain aldehydes trans-2-nonenal, nonanal, and cis-6-nonenal (PubMed:12807874). Has no dehydrogenase activity towards steroid (PubMed:12807874). Seems to be required for homeostasis of retinol in liver and testis (PubMed:29567832).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204536