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Product datasheet for MR204586

Rdh5 (NM_134006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rdh5 (NM_134006) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rdh5
Synonyms:	9-cis; AI987873; cRDH; RDH4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR204586 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTGCCTCTGCTTCTGGGTGCCTTGCTGTGGGCAGTGCTGTGGTTGCTCAGAGACCGGCAGAGCC
TGCCGGCCAGTGATGCTTTCATCTTCATCACTGGCTGTGACTCTGGCTTTGGGCGCCTTCTGGCACTGCA
ACTTGACCAGAAGGGCTTCCAAGTCCTGGCCGGCTGCCTGACCCCCTCTGGAGCAGAAGACCTGCAGCAG
ATGGCCTCCTCCCGCCTCCACACAACACTACTGGATATCACTGATCCCCAGAATGTCCAGCAAGTTGCCA
AGTGGGTGAAGACACGTGTTGGAGAAACTGGACTTTTTGGTCTGGTGAATAACGCTGGCGTAGCTGGTAT
CATCGGGCCCACACCATGGCTAACACAGGATGATTTCCAGAGAGTACTGAGTGTGAACACACTGGGGCCC
ATCGGTGTCACCCTTGCCCTGCTGCCCCTGCTACAGCAGGCCAGGGGTCGGGTGGTCAACATCACCAGTG
TCTTGGGCCGCATAGCAGCCAATGGCGGGGGCTACTGTGTCTCCAAGTTTGGCCTGGAGGCCTTCTCTGA
CAGCCTGAGGCGGGACATGGCTCCGTTCGGAGTACAAGTCTCCATTGTGGAGCCTGGCTTCTTTCGAACC
CCTGTGACCAACCTGGAGAGTCTGGAGAGCACCCTGAAGGCTTGTTGGGCCCGGCTACCTCCAGCTATAC
AGGCCCACTACGGGGAAGCCTTCCTCGATACTTATCTTCGAGTACAGCGCCGCATCATGAACCTGATCTG
TGACCCAGAACTAACGAAGGTGACCAGCTGCCTGGAGCATGCCCTGACTGCTCGCCACCCCCGAACACGC
TACAGCCCAGGCTGGGATGCCAAGCTGCTCTGGCTGCCTGCCTCCTACCTTCCAGCCAGGGTGGTGGATG
CTGTGCTCACCTGGATCCTTCCCCGGCCCGCCCAGTCAGTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

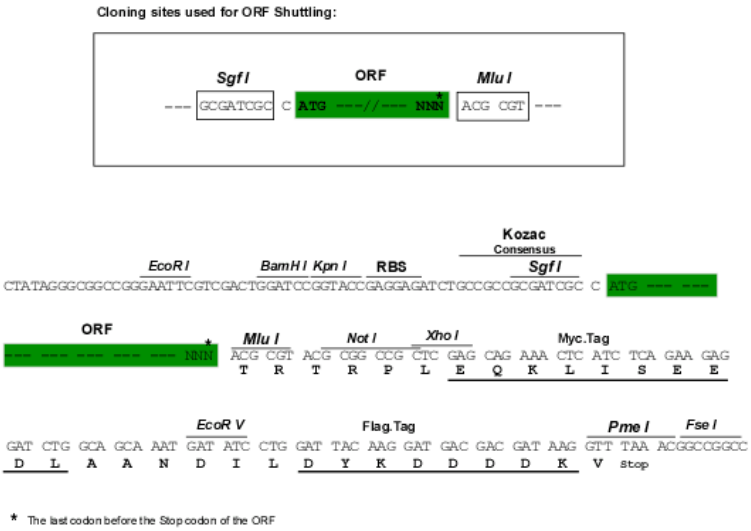
>MR204586 protein sequence
Red=Cloning site Green=Tags(s)

MWLPLLLGALLWAVLWLLRDRQSLPASDAFIFITGCDSGFGRLLALQLDQKGFQVLAGCLTPSGAEDLQQ
MASSRLHTTLLDITDPQNVQQVAKWVKTRVGETGLFGLVNNAGVAGIIGPTPWLTQDDFQRVLSVNTLGP
IGVTLALLPLLQQARGRVVNITSVLGRIAANGGGYCVSKFGLEAFSDSLRRDMAPFGVQVSIVEPGFFRT
PVTNLESLESTLKACWARLPPAIQAHYGEAFLDTYLRVQRRIMNLICDPELTKVTSCLEHALTARHPRTR
YSPGWDAKLLWLPASYLPARVVDAVLTWILPRPAQSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134006

ORF Size: 957 bp

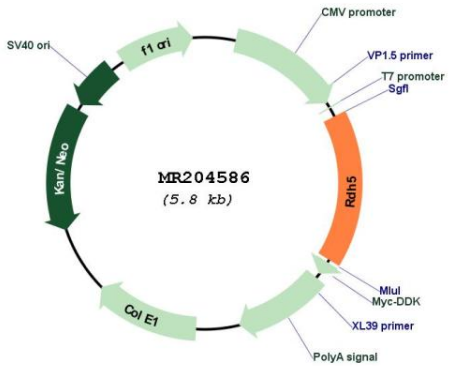
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_134006.5
RefSeq Size:	1261 bp
RefSeq ORF:	957 bp
Locus ID:	19682
UniProt ID:	O55240
Cytogenetics:	10 77.19 cM
MW:	34.8 kDa
Gene Summary:	Catalyzes the oxidation of cis-isomers of retinol, including 11-cis-, 9-cis-, and 13-cis-retinol in an NAD-dependent manner (PubMed:10588954, PubMed:9539749). Has no activity towards all-trans retinal (By similarity). Plays a significant role in 11-cis retinol oxidation in the retinal pigment epithelium cells (RPE). Also recognizes steroids (androsterone, androstanediol) as its substrates (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204586