

Product datasheet for MC209308

Rdh16 (NM_009040) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rdh16 (NM_009040) Mouse Untagged Clone
Tag: Tag Free
Symbol: Rdh16
Synonyms: CRAD; CRAD1; Rdh6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >MC209308 representing NM_009040
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGGCTCTACCTGGTGGCACTGGTGGCCTGTGGACGCTTCTGCGCTTCTTCAGGGTGAGGCAGGTGG
 TGAGCCATCTCCAAGACAAATATGTCTTCATCACGGGCTGTGACTCTGGCTTTGGACCCCTGCTGGCCAG
 ACAGCTGGACAGGAGAGGCATGAGGGTGTGGCTGCATGTCTGACGGAGAAGGGAGCCGAGGAGCTGAGG
 AACAGACATCTGACAGGCTGGAGACAGTGATCCTGGATGTACCAAGACAGAGAGTATTGTGACAGCCA
 CTCAGTGGGTGAAGGAGCATGTTGGGAACAGAGGACTCTGGGCCTGGTCAACAACGCTGGCATCTCCAC
 CCCTCGGGTCCCAACGAGTGGATGAAAAAGCAGGACTTTGCACATGACTGGATGTGAACCTGTTGGGC
 ATGATCGAGGTGACTCTGAGCATGCTGCCTTTAGTGAGGAAGGCGAGGGGTCGTGTGGTCAACGTCTCCA
 GTGTCATGGGTCGAGTGTCTCTTTGGTGGTGTACTGCATCTCTAAGTATGGTGTAGAGGCCTTCTC
 AGACTCCCTCAGGAGGGAGCTCTCCTACTTTGGGGTGAAGGTGGCTATTATAGAGCCTGGCTTCTCCTG
 ACCGGTGTGACCAGTAGTGCCAGATTATGCTCAAATACCCAGATGCTGTGGGACCAGACCAGCTCAGAAA
 TCAGGGAGATCTATGGCGAGAAGTACCTGGCATCCTATCTGAAAAGGCTAAACAAATTGGACAAGAGGTG
 CAACAAGGACCTGTCTGGGGTACTGACTGCATGGAGCATGCTCTGACTGCCTGTACCCCTCGTACCCGA
 TACTCAGCTGGCTGGGATGCTAAGCTCTTACCTCCCCTTGAGCTACCTGCCACCTTTCTTGTGGATG
 CCCTTCTACTGGACTCCCTGAAGCCTGAAAAGCCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009040



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Insert Size:	954 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_009040.3</u> , <u>NP_033066.1</u>
RefSeq Size:	3208 bp
RefSeq ORF:	954 bp
Locus ID:	19683
UniProt ID:	<u>O54909</u>
Cytogenetics:	10 D3
Gene Summary:	Oxidoreductase with a preference for NAD. Oxidizes all-trans-retinol, 9-cis-retinol, 11-cis-retinol and 13-cis-retinol to the corresponding aldehydes. Has higher activity towards CRBP-bound retinol than with free retinol. Oxidizes 3-alpha-hydroxysteroids. Oxidizes androstenediol and androsterone to dihydrotestosterone and androstenedione. Can also catalyze the reverse reaction.[UniProtKB/Swiss-Prot Function]