

Product datasheet for **MR203368**

Dhrs4 (BC003484) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhrs4 (BC003484) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dhrs4
Synonyms:	mouNRDR, RRD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR203368 representing BC003484 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCAGTTCGGGTTGACTCGTCGAAACCTCTCTCGAATAAGGTGGCCTTGGTCACAGCCTCCACCG
ACGGGATCGGCTTTGCCATCGCCCGTCGTCTGGCTGAAGATGGGGCCACGTGGTCGTCAGCAGCCGCAA
ACAGCAGAATGTGGACCGTGCAGTGGCCACACTACAGGGAGAGGGCCTGAGTGTGACTGGCATCGTGTGC
CACGTGGGGAAGGCAGAGGATCGAGAAAAGCTGATAACCACGGCTCTGAAGCGTCACCGGGGATTGATA
TCCTGGTCTCCAATGCTGCTGTCAACCTTTCTTTGGAAATCTAATGGATGTCACAGAGGAGGTGTGGGA
CAAGGTTTTGAGCATTAAATGTGACAGCTACAGCCATGATGATTAAGCGGTGGTCCAGAGATGGAAAAG
CGAGGAGGCGGCTCAGTGGTGAATGTGGGTTCTGTAGCAGGCTTCACTCGGTTCCCTTCTCTGGTCCTT
ACAATGTTAGCAAAACAGCTTTGCTGGTCTTACTAAGAACTTTGCAGCGGAGTTGGCCCCGAAGAACAT
TCGAGTGAAGTCTTAGCACCTGGACTCATCAAGACTCGATTAGCAGTGTGTTGTGGGAGGAGAAAAGCA
AGAGAGGACTTCATAAAAGAAGCCATGCAAAATCAGAAGGCTAGGCAAGCCAGAGGATTGTGCTGGCATAG
TTTCCTTCTATGCTCTGAAGACGCCAGTTACATCAATGGAGAGACCGTAGTAGTGGGGGAGGAACCC
TTCTCGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203368 representing BC003484
Red=Cloning site Green=Tags(s)

MASSGLTRRNPLSNKVALVTASTDGIGFAIARRLAEDGAHVVVSSRKQQNVDRAVATLQGEGLSVTGIVC
 HVGKAEDREKLIITALKRHRGIDILVSNAAVNPFPGNLMDVTEEVWDKVLSINVTATAMMIKAVVPEMEK
 RGGGSVIVGVSAGFTRFPSLGPYNVSKTALLGLTKNFAAELAPKNIRVNCLAPGLIKTRFSSVLWEEKA
 REDFIKEAMQIRRLGKPEDCAGIVSFLCEDASYINGETVVVGGGTPSRL

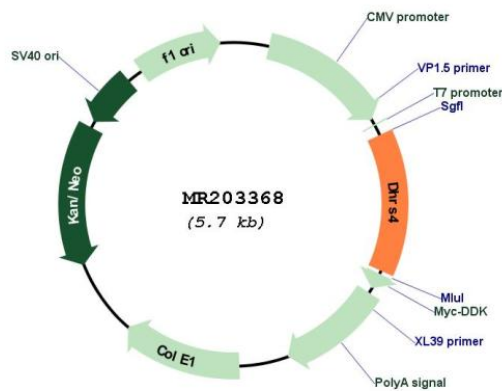
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC003484
ORF Size: 780 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:	BC003484.1
RefSeq Size:	1234 bp
RefSeq ORF:	782 bp
Locus ID:	28200
Cytogenetics:	14 28.19 cM
MW:	27.8 kDa
Gene Summary:	Reduces all-trans-retinal and 9-cis retinal. Can also catalyze the oxidation of all-trans-retinol with NADP as co-factor, but with much lower efficiency. Reduces alkyl phenyl ketones and alpha-dicarbonyl compounds with aromatic rings, such as pyrimidine-4-aldehyde, 3-benzoylpyridine, 4-benzoylpyridine, menadione and 4-hexanoylpyridine. Has no activity towards aliphatic aldehydes and ketones (By similarity).[UniProtKB/Swiss-Prot Function]