

Product datasheet for RC201180

DHRS3 (NM_004753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS3 (NM_004753) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHRS3
Synonyms:	DD83.1; RDH17; retSDR1; Rsdr1; SDR1; SDR16C1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201180 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGAAACGGCTGGGCGCGCTGGTATGTTCCCTCTACAGATGATCTATCTGGTGGTAAAGCAG
CCGTCGGACTGGTGTGCCCGCAAGCTGCGGGACCTGTCGCGGGAGAACGTCTCATACCGGCGGCGG
GAGAGGCATCGGGCGTCAGCTCGCCCGGAGTTCGCGGAGCGCGGCCAGAAAGATTGTTCTCTGGGGC
CGGACTGAGAAATGCCTGAAGGAGACGACGGAGGAGATCCGGCAGATGGGCACTGAGTGCCATTACTTCA
TCTGTGATGTGGCAACCGGGAGGAGGTGTACCAGACGGCAAGGCCGTCCGGGAGAAGGTGGGTGACAT
CACCATCCTGGTGAACAATGCCCGCGTGGTCCATGGGAAGAGCCTAATGGACAGTGATGATGCCCTC
CTCAAGTCCCAACACATCAACACCCTGGGCCAGTTCTGGACCACCAAGGCCTTCTGCCGCGTATGCTGG
AGCTGCAGAAATGGCCACATCGTGTGCCTCAACTCCGTGCTGGCACTGTCTGCCATCCCGGTGCCATCGA
CTACTGCACATCCAAAGCGTCAGCCTTCGCCTTTCATGGAGAGCCTGACCCTGGGGCTGCTGGACTGTCCG
GGAGTCAGCGCCACCACAGTGTGCCCTTCCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTCAGGT
TTCCCAACCTCTTCCCCACTGAAGCCGGAGACGGTGGCCCGGAGGACAGTGAAGCTGTGCAGCTCAA
CCAGGCCCTCCTCCTCCCATGGACAATGCATGCCCTCGTTATCTTAAAAAGCATACTCCACAGGCT
GCACTCGAGGAGATCCACAAATTCTCAGGAACCTACACCTGCATGAACACTTTCAAAGGGCGGACA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201180 protein sequence
Red=Cloning site Green=Tags(s)

MVWKRLGALVMFPLQMIYLVVKAAVGLVLPKLRDL SRENVLITGGGRGIGRQLAREFAERGARKIVLWG
 RTEKCLKETTEEIRQMGTECHYFICDVGNREEVYQTAKAVREKVGDIITLVNNAAVVHGKSLMDSDDAL
 LKSQHINTLGQFWTTKAF LPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAFAMESLTLGLLDCP
 GVSATTVLPFHTSTEMFQGMRVRFPNLFPPLKPETVARRTVEAVQLNQALLLLPWTMHALVILKSILPQA
 AL EEIHKFSGTYTCMNTFKGR T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6143_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004753

ORF Size: 906 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_004753.7](#)

RefSeq Size: 1741 bp

RefSeq ORF: 909 bp

Locus ID: 9249

UniProt ID: [O75911](#)

Cytogenetics: 1p36.21

Domains: adh_short

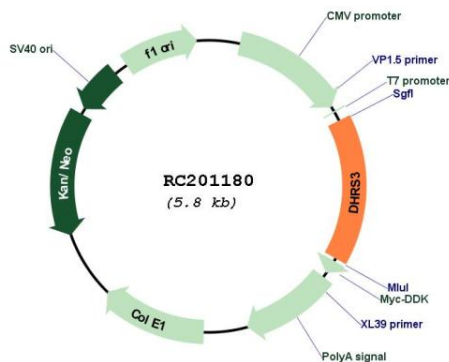
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Retinol metabolism

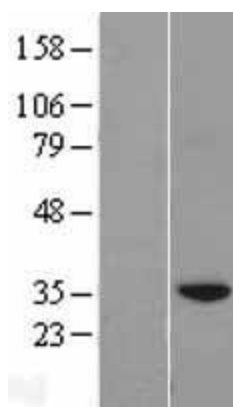
MW: 33.5 kDa

Gene Summary: Short-chain dehydrogenases/reductases (SDRs), such as DHRS3, catalyze the oxidation/reduction of a wide range of substrates, including retinoids and steroids (Haeseleer and Palczewski, 2000 [PubMed 10800688]).[supplied by OMIM, Jun 2009]

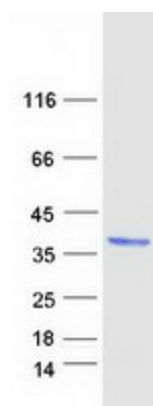
Product images:



Circular map for RC201180



Western blot validation of overexpression lysate (Cat# [LY401496]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201180 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHRS3 protein (Cat# [TP301180]). The protein was produced from HEK293T cells transfected with DHRS3 cDNA clone (Cat# RC201180) using MegaTran 2.0 (Cat# [TT210002]).