

Product datasheet for RC220853

DHRS9 (NM_199204) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS9 (NM_199204) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHRS9
Synonyms:	3-alpha-HSD; 3ALPHA-HSD; RDH-E2; RDH-TBE; RDH15; RDHL; RDHTBE; RETSDR8; SDR9C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220853 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAACTAAAGA
TTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACTTGGCAGCCAG
AACTTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAG
GCAGAAACCTCAGAGAGACTTCGTAAGTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTG
CCCAGTGGGTGAAGAACCAAGTTGGGGAGAAAGTCTCTGGGTCTGATCAATAATGCTGGTGTCCCGG
CGTGTGGCTCCCACTGACTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGGGA
CTCATCAGTGTGACACTAAATATGCTTCTTTGGTCAAGAAAGCTCAAGGGAGAGTTATTAATGTCTCCA
GTGTTGGAGGTCGCCTTGCAATCGTTGGAGGGGCTATACTCCATCCAAATATGCAGTGGAGGTTTCAA
TGACAGCTTAAGACGGGACATGAAAGCTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTCCAAA
ACAAACTTGGCAGATCCAGTAAAGGTAATTGAAAAAACTCGCCATTTGGGAGCAGCTGTCTCCAGACA
TCAAACAACAATATGGAGAAGGTTACATTGAAAAAAGTCTAGACAACTGAAAGCAATAAATCCTATGT
GAACATGGACCTCTCCGGTGGTAGAGTGCATGGACCAGCTCTAACAAGTCTTCCCTAAGACTCAT
TATGCCGCTGAAAAGATGCCAAAATTTCTGGATACCTCTGTCTCACATGCCAGCAGCTTTGCAAGACT
TTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGGCAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220853 protein sequence
Red=Cloning site Green=Tags(s)

MLFWVLGLLILCGFLWTRKGLKIEDITDKYIFITGCDSGFGNLAARTFDKKGPHVIAACLTESGSTALK
 AETSERLRTVLLDVTDPENVKRTAQWVKVQVGEKGLWGLINNAGVPGVLAPTDWLTLEDYREPIEVNLFGL
 LISVTLNMLPLVKKAQGRVINVSSVGGRLAIVGGGYTPSKYAVEGFNDSLRRDMKAFGVHVSICIEPGLFK
 TNLADPVKVIIEKKLAIWEQLSPDIKQQYGEYIEKSLDKLKGKNSYVNMDSLSPVVECMDHALTSLFPKTH
 YAAGKDAKIFWIPLSHMPAALQDFLLLKQKAE LANPKAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6353_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199204

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.

RefSeq: [NM_199204.2](#)

RefSeq Size: 1993 bp

RefSeq ORF: 960 bp

Locus ID: 10170

UniProt ID: [Q9BPW9](#)

Cytogenetics: 2q31.1

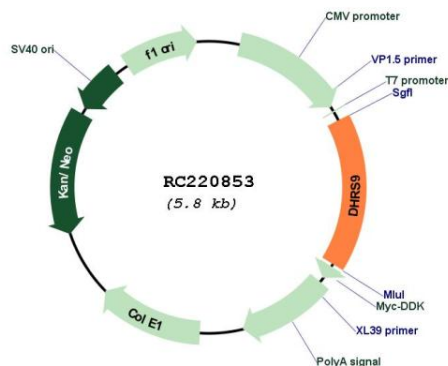
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Retinol metabolism

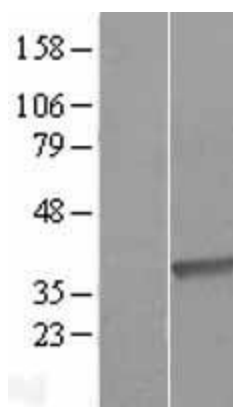
MW: 35.2 kDa

Gene Summary: This gene encodes a member of the short-chain dehydrogenases/reductases (SDR) family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. This protein demonstrates oxidoreductase activity toward hydroxysteroids and is able to convert 3-alpha-tetrahydroprogesterone to dihydroxyprogesterone and 3-alpha-androstanediol to dihydroxyprogesterone in the cytoplasm, and may additionally function as a transcriptional repressor in the nucleus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

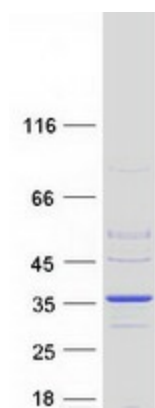
Product images:



Circular map for RC220853



Western blot validation of overexpression lysate (Cat# [LY404693]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220853 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHRS9 protein (Cat# [TP320853]). The protein was produced from HEK293T cells transfected with DHRS9 cDNA clone (Cat# RC220853) using MegaTran 2.0 (Cat# [TT210002]).