

## Product datasheet for RC226904

### DHRS9 (NM\_001142271) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHRS9 (NM_001142271) 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:	>RC226904 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAACTAAAGA  
TTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACTTGGCAGCCAG  
AACTTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAG  
GCAGAAACCTCAGAGAGACTTCGTAAGTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTG  
CCCAGTGGGTGAAGAACCAAGTTGGGAGAAAGTCTCTGGGTCTGATCAATAATGCTGGTGTCCCGG  
CGTGTGGCTCCCACTGACTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGGGA  
CTCATCAGTGTGACACTAAATATGCTTCCCTTTGGTCAAGAAAGCTCAAGGGAGAGTTATTAATGTCTCCA  
GTGTTGGAGGTCGCCTTGAATCGTTGGAGGGGCTATACTCCATCCAAATATGCAGTGGAGGTTTCAA  
TGACAGCTTAAGACGGGACATGAAAGCTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTTCAA  
ACAACTTGGCAGATCCAGTAAAGGTAATTGAAAAAACTCGCCATTTGGGAGCAGCTGTCTCCAGACA  
TCAAACAACAATATGGAGAAGTTACATTGAAAAAAGTCTAGACAACTGAAAGCAATAAATCCTATGT  
GAACATGGACCTCTCCGGTGGTAGAGTGCATGGACCAGCTCTAACAAGTCTTCCCTAAGACTCAT  
TATGCCGCTGAAAAGATGCCAAAATTTCTGGATACCTCTGTCTCACATGCCAGCAGCTTTGCAAGACT  
TTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGGCAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC226904 protein sequence  
Red=Cloning site Green=Tags(s)

MLFWVLGLLILCGFLWTRKGLKIEDITDKYIFITGCDSGFGNLAARTFDKKGPHVIAACLTESGSTALK  
 AETSERLRTVLLDVTDPENVKRTAQWVKNQVGEKGLWGLINNAGVPGVLAPTDWLTLEDYREPIEVNLFGL  
 LISVTLNMLPLVKKAQGRVINVS SVGGRLAIVGGGYTPSKYAVEGFNDSLRRDMKAFGVHVSICIEPGLFK  
 TNLADPVKVIIEKKLAIWEQLSPDIKQQYGEYIEKSLDKLKGKNSYVNMDLSPVVECMDHALTSLFPKTH  
 YAAGKDAKIFWIPLSHMPAALQDFLLLKQKAELANPKAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8076\\_a05.zip](https://cdn.origene.com/chromatograms/mk8076_a05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142271

**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\\_001142271.2](#)

**RefSeq Size:** 1483 bp

**RefSeq ORF:** 960 bp

**Locus ID:** 10170

**UniProt ID:** [Q9BPW9](#)

**Cytogenetics:** 2q31.1

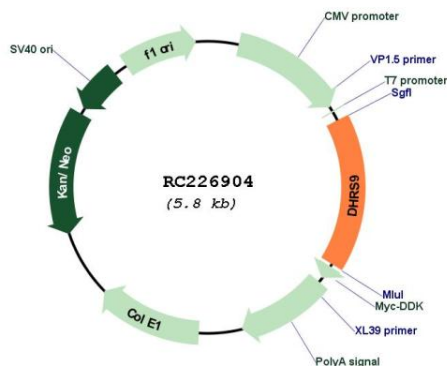
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Retinol metabolism

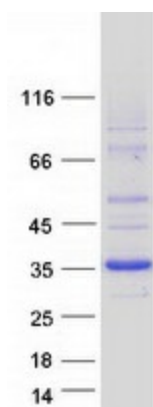
**MW:** 35.2 kDa

**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 RC226904



Coomassie blue staining of purified DHRS9 protein (Cat# [TP326904]). The protein was produced from HEK293T cells transfected with DHRS9 cDNA clone (Cat# RC226904) using MegaTran 2.0 (Cat# [TT210002]).