

## Product datasheet for **SC126331**

### DHRS9 (NM\_199204) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DHRS9 (NM\_199204) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DHRS9  
**Synonyms:** 3-alpha-HSD; 3ALPHA-HSD; RDH-E2; RDH-TBE; RDH15; RDHL; RDHTBE; RETSDR8; SDR9C4  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_199204 edited  
AGCTGAGCAAGTCCACCAACAGTTTCTGTGTCCCACCTTCATCTTTAATAAGGACACCATC  
TTCTTGTATTATACAAGAAAGGAGTGTACCTATCACACACAGGGGAAAAATGCTCTTTT  
GGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAAAGGAAAACTAAAGA  
TTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTCGGGCTTTGGAACT  
TGGCAGCCAGAATTTTGATAAAAAGGGATTTTCATGTAATCGCTGCCTGTCTGACTGAAT  
CAGGATCAACAGCTTTAAAGGCAGAAACCTCAGAGAGACTTCGACTGTGCTTCTGGATG  
TGACCGACCCAGAGAATGTCAAGAGGACTGCCAGTGGTGAAGAACCAAGTTGGGGAGA  
AAGGTCTCTGGGTCTGATCAATAATGCTGGTGTCCCGCGTGTGGCTCCCAGTACTGACT  
GGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTTGGACTCATCAGTG  
TGACACTAAATATGCTTCCTTTGGTCAAGAAAGCTCAAGGAGAGTTATTAATGTCTCCA  
GTGTTGGAGGTCGCCTTGCAATCGTTGGAGGGGCTATACTCCATCCAAATATGCAGTGG  
AAGTTTTCAATGACAGCTTAAGACGGGACATGAAAGCTTTTGGTGTGCACGTCTCATGCA  
TTGAACCAAGGATTGTTCAAAAACAACTTGGCAGATCCAGTAAAGGTAATTGAAAAAAAC  
TCGCCATTTGGGAGCAGCTGTCTCCAGACATCAAACAATAATGGAGAAGGTTACATTG  
AAAAAGTCTAGACAACTGAAAGGCAATAATCCTATGTGAACATGGACCTCTCTCCGG  
TGGTAGAGTGCATGGACCAGCTCTAACAAGTCTTCCCTAAGACTCATTATGCCGCTG  
GAAAAGATGCCAAAATTTCTGGATACCTCTGTCTCACATGCCAGCAGCTTTGCAAGACT  
TTTTATTGTTGAAACAGAAAGCAGAGCTGGCTAATCCCAAGCAGTGTGACTCAGCTAAC  
CACAAATGTCTCCTCCAGGCTATGAAATTGGCCGATTTCAAGAACACATCTCCTTTTCAA  
CCCCATTCCTTATCTGCTCCAACCTGGACTCATTAGATCGTGCTTATTTGGATTGCAAA  
AGGGAGTCCCACCATCGCTGGTGGTATCCAGGGTCCCTGCTCAAGTTTTCTTTGAAAAG  
GAGGGCTGGAATGGTACATCACATAGGCAAGTCCCTGCCCTGTATTTAGGCTTTGCCTGCT  
TGGTGTGATGTAAGGGAAATTGAAAGACTTGCCCATTCAAAATGATCTTTACCGTGGCT  
GCCCCATGCTTATGGTCCCAGCATTTACAGTAACTTGTGAATGTTAAGTATCATCTCTT  
ATCTAAATATTAAGATAAGTCAAACATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_199204 unedited GAGTCTTATTTGTATACCACTTATATAGGCGGCCGCGNATTCANATCTGGTACCGGTCCG GAATTCGCCGGATAGCTGAGCAAGTCCACCAACAGTTTCTGTGTCCCCTTCATCTTTAA TAAGGACACCATCTTCTGTATTATACAAGAAAGGAGTGTACCTATCACACACAGNGGG AAAAATGCTCTTTGGGTGCTAGGCCTCCTAATCCTCTGTGGTTTTCTGTGGACTCGTAA AGGAAAACTAAAGATTGAAGACATCACTGATAAGTACATTTTTATCACTGGATGTGACTC GGGCTTTGGAACTTGGCAGCCAGAAGTTTGTAAAAAGGGATTCATGTAATCGCTGC CTGTCTGACTGAATCAGGATCAACAGCTTTAAAGGCAGAAACCTCAGAGAGACTTCGTAC TGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTGCCAGTGGGTGAAGAA CCAAGTTGGGGAGAAAGGTCTCTGGGTCTGATCAATAATGCTGGTGTCCCGCGGTGCT GGCTCCCCTGACTGGCTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTT TGGACTCATCAGTGTGACACTAAATATGCTTCTTTGGTCAAGAAAGCTCAAGGGAGAGT TATTAATGTCTCCAGTGTGGAGGTCGCCTTGCAATCGTTGGAGGGGGCTATACTCCATC CAAATATGCAGTGAAGGTTTCAATGACAGCTTAAGACGGGACATGAAAGCTTTTGGTGT GCACGTCTCATGCATTGAACCAGGATTGTTCAAACAAACTTGGCAGATCCAGTAAAAGT AATTGAAAAAACTCGCCATTTTGGGAGCAGCTGTCTCCAGACATCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_199204
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_199204.1</a> , <a href="#">NP_954674.1</a>
<b>RefSeq Size:</b>	1993 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	10170
<b>UniProt ID:</b>	<a href="#">Q9BPW9</a>
<b>Cytogenetics:</b>	2q31.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Retinol metabolism

**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]

Transcript Variant: This variant (2) represents the longest transcript and encodes the shorter isoform (1). Variants 2-4 encode the same isoform.