

## Product datasheet for SC335745

### DHRS9 (NM\_001289763) Human Untagged Clone

#### Product data:

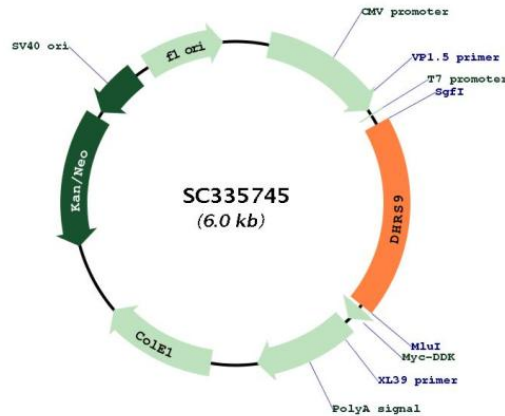
Product Type:	Expression Plasmids
Product Name:	DHRS9 (NM_001289763) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHRS9
Synonyms:	3-alpha-HSD; 3ALPHA-HSD; RDH-E2; RDH-TBE; RDH15; RDHL; RDHTBE; RETSDR8; SDR9C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335745 representing NM_001289763. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGAAGGAAGAAGCCACTGTGCATGCTCTATCACCAGCCTCACCTCCTGGTCAGCCTTACAAGA
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GTAATCGCTGCCTGTCTGACTGAATCAGGATCAACAGCTTTAAAGGCAGAAACCTCAGAGAGACTTCGT
ACTGTGCTTCTGGATGTGACCGACCCAGAGAATGTCAAGAGGACTGCCAGTGGGTGAAGAACCAAGTT
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CTGACACTAGAGGACTACAGAGAACCTATTGAAGTGAACCTGTTGGACTCATCAGTGTGACACTAAAT
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ATGAAAGCTTTTGGTGTGCACGTCTCATGCATTGAACCAGGATTGTTCAAACAACTTGGCAGATCCA
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CCGGTGGTAGAGTGCATGGACCAGCTTAACAAGTCTCTCCCTAAGACTCATTATGCCGCTGGAAAA
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CAGAAAGCAGAGCTGGCTAATCCCAAGGCAGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001289763

**Insert Size:** 1140 bp

**OTI Disclaimer:** 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).

**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\\_001289763.1](#)

**RefSeq Size:** 1670 bp

**RefSeq ORF:** 1140 bp

**Locus ID:** 10170

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

**Cytogenetics:** 2q31.1

**Protein Families:** Druggable Genome

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

**MW:** 41.9 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]  
Transcript Variant: This variant (5) differs in its 5' UTR and uses an upstream start codon, compared to variant 2. The encoded isoform (2) has a longer N-terminus, compared to isoform 1.