

Product datasheet for **SC302359**

DHODH (NM_001025193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHODH (NM_001025193) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHODH
Synonyms:	DHOdehase; dihydroorotate dehydrogenase; dihydroorotate oxidase; human complement of yeast URA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001025193 edited

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ATGGCGTGGAGACACCTGCAAAAGCGGGCCAGGATGCTGTGATCATCCTGGGGGGAGGA
GGACTTCTCTTCGCTCCTACCTGATGGCCACGGGAGATGAGCGTTTCTATGCTGAACAC
CTGATGCCGACTCTGCAGGGGCTGCTGGACCCGGAGTCAGCCACAGACTGGCTGTTCCG
TTCACCTCCCTGGGGCTCCTTCCACGGGCCAGATTTCAAGACTCTGACATGCTGGAAGTG
AGAGTTCTGGGCCATAAATTCGAAATCCAGTAGGAATTGCTGCAGGATTTGACAAGCAT
GGGAAGCCGTGGACGGACTTTATAAGATGGGCTTTGGTTTTGTTGAGATAGGAAGTGTG
ACTCCAAAACCTCAGGAAGGAAACCTAGACCCAGAGTCTTCCGCTCCCTGAGGACCAA
GCTGTCATTAACAGGTATGGATTTAACAGTCACGGGCTTTCAGTGGTGAACACAGGTTA
CGGGCCAGACAGCAGAAGCAGGCCAAGCTCACAGAAGTTGGGCATCGATGGGCTGATTGT
TACGAACACCACCGTGAGTCGCCCTGCGGGCTCCAGGGTGCCCTGCGCTCTGAAACAGG
AGGGCTGAGTGGGAAGCCCTCCGGGATTTATCAACTCAAACCATTCGGGAGATGTATGC
ACTCACCAAGGCCGAGTCCCATAATTGGGGTTGGTGGTGTGAGCAGCGGGCAGGACGT
GCTGGAGAAGATCCGGGCAGGGGCTCCCTGGTGAGCTGTACACGGCCCTCACCTTCTG
GGGGCCACCCGTTGTGGGCAAAGTCAAGCGGGAAGTGGAGGCCCTTCTGAAAGAGCAGGG
CTTTGGCGGAGTCACAGATGCCATTGGAGCAGATCATCGGAGGTGAGGACAGCGTCTGAC
GGGAAGCCTGATCTGGAACCTTCCCAAGGACTCAGGCAAGCCTTTGTGGCTGGATCATGA
GAGGAGGGACTCCATCTTGAGCCATGTCCCCAGCCATGGCATGGCTGCACTGTAACGC
CAATCGGGGGGTACCAGGATCAACCGCAGGCTTCTTTCAGTCCCTTGGTCCAGACCATAA
ACTGCATTTTTGATTCTTTGTGGATTCAAACCCTAGGATCCATCAGTCTTGCAAGGACAT
TGAATATTAGGAGGAAAAAGTCATGGAAAAAATAAGCCATTTAGAACCCTGGGAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001025193 unedited GGACGTCAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAAAGGCGTGG AGACACCTGCAAAACGGGCCAGGATGCTGTGATCATCCTGGGGGAGGAGGACTTCTCT TCGCCTCTACCTGATGGCCACGGGAGATGAGCGTTTCTATGCTGAACACCTGATGCCGA CTCTGCAGGGGCTGCTGGACCCGGAGTCAGCCACAGACTGGCTGTTTCGTTTACCTCCC TGGGGCTCCTTCCACGGGCCAGATTTCAAGACTCTGACATGCTGGAAGTGAGAGTTCTGG GCCATAAATTCGAAATCCAGTAGGAATTGGCTGCAGGATTTGACAAGCATGGGGAAGCC GTGGACGACTTTATAAGATGGGCTTNNTTGGGTTTTGTTGAGATAGGAAGTGTGACTCC AAAACCTCAGGAAGGAAACCCTAGACCCAGAGTCTTCCGCTCCCTGAGGACCAAGCTGT CATTAAACAGGTATGGATTTAACAGTCACGGGCTTTCAGTGGTGAACACAGGTTACGGGC CAGACAGCAGAAGCAGGCCAAGCTCACAGAAGTTGGGCATCGATGGGCTGATTGTTACGA ACACCACCGTGAGTCGCCCTGCGGGCTCCAGGGTCCCTGCGCTCTGAAACAGGAGGGC TGAGTGGGAAGCCCTCCGGATTTATCAACTCAAACCATTCCGGGAGATGTATGCACTCA CCCAAGGCCGAGTCCCATAATTGGGGTTGGGTGGTGTGAGCAGCGGGCANGACGTGCTG GAGAAGATCCGGGCAGGGCCTNCTGGTGCAGCTGTACACGGCCCTCACCTTCTGGGGG CCACCGTTGTGGCAAAGTCAAGCGGGC
Restriction Sites:	Please inquire
ACCN:	NM_001025193
Insert Size:	1200 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).
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. OriGene considers these to be polymorphisms and to reflect the natural differences between individuals. These result in the substitution of 1 amino acids.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001025193.1</u> , <u>NP_001020364.1</u>
RefSeq Size:	1778 bp
RefSeq ORF:	594 bp
Locus ID:	1723
Cytogenetics:	16q22.2
Protein Families:	Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

Gene Summary: The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane. [provided by RefSeq, Jul 2008]