

## Product datasheet for **SC321734**

### DHDH (NM\_014475) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHDH (NM_014475) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHDH
Synonyms:	2DD; HUM2DD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_014475.3  
 CCACGCGTCCGCTGGAGGACCGAAGGTGCCGAGGGCTCCGCATCGCAACCATGGCGCTG  
 CGCTGGGGCATCGTGTCTGTGCGCCTCATCTCCAGCGACTTCACAGCCGTGCTGCAGACG  
 CTGCCTCGCTCTGAGCACAGGTGGTGGCGGTGGCGGCCCGCATCTGAGCCGTGCGAAG  
 GAGTTTGACAGAAACACGACATCCCCAAGGCCTACGGCTCTATGAGGAGCTGGCCAAG  
 GACCCGAGCGTGGAGGTGGCCTACATTGGCACCCAGCACCCCCAGCACAAAGGCGGCGGTG  
 ATGCTGTGCTTGGCGGGCAAGGCCGTTCTGTGCGAGAAGCCACGGGCGTGAACGCG  
 GCGGAAGTTCGCGAGATGGTCGCGGAGGCCGATCCCAGCCCTTCTTATGGAGGCC  
 ATCTGGACCCGCTTTTCTGCCTCCGAGGCTCTGAGGTCTGTTTTGGCCAGGGAAGT  
 CTAGGAGACCTCCGGTGGCTCGGGCAGAATTTGGGAAGAATCTCATCCACGTTCCCGG  
 GCCGTAGACCCGGCCAGGCTGGGGGGCCCTGCTGGACATCGGCATCTACTGTGTCCAG  
 TTCACCTCCATGGTCTTTGGAGGCAGAAAGCCAGAGAAGATTTCTGTCGTGGGAAGGCGT  
 CATGAAACAGGTGTGGATGACACTGTACAGGTGCTCCTGCAGTACCCAGGGGAGGTCCAT  
 GGCAGCTTACCTGCAGCATCACCGTGCAGCTCTCCAACACGGCCTCCGTGAGCGGCACC  
 AAGGGCATGGTACAGCTCCTCAACCCCTGCTGGTGCCCGACCGAGCTGGTGGTGAAGGGG  
 GAGCATAAGGAGTTCCCGCTGCCCCAGTCCCAAAGGACTGCAATTTGACAACGGGGCA  
 GGCATGAGTTATGAGGCCAAGCACGTCTGGGAGTGCCTACGCAAGGGTATGAAGGAAAGT  
 CCTGTGATTCCCCTGTCGAAAGTGAGCTCCTGGCTGACATCCTTGAAGAGGTGAGGAAG  
 GCCATTGGAGTACCTTCCCCAAGACAACGCTGATGTATCCCCGAATAAATAAAGACA  
 TCTTAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_014475



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<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_014475.3</a> , <a href="#">NP_055290.1</a>
<b>RefSeq Size:</b>	1098 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	27294
<b>UniProt ID:</b>	<a href="#">Q9UQ10</a>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Pathways:</b>	Metabolism of xenobiotics by cytochrome P450
<b>Gene Summary:</b>	This gene encodes an enzyme that belongs to the family of dihydrodiol dehydrogenases, which exist in multiple forms in mammalian tissues and are involved in the metabolism of xenobiotics and sugars. These enzymes catalyze the NADP1-linked oxidation of transdihydrodiols of aromatic hydrocarbons to corresponding catechols. This enzyme is a dimeric dihydrodiol dehydrogenase, and it differs from monomeric dihydrodiol dehydrogenases in its high substrate specificity for trans-dihydrodiols of aromatic hydrocarbons in the oxidative direction. [provided by RefSeq, Jul 2008]