

Product datasheet for **SC110871**

DHCR7 (NM_001360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHCR7 (NM_001360) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHCR7
Synonyms:	SLOS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC110871 sequence for NM_001360 edited (data generated by NextGen Sequencing)

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ATGGCTGCAAAATCGCAACCCAACATTCCCAAAGCCAAGAGTCTAGATGGCGTCACCAAT
GACAGAACCGCATCTCAAGGGCAGTGGGGCCGTGCCTGGGAGGTGGACTGGTTTTCACTG
GCGAGCGTCATCTTCTACTGCTGTTGCCCCCTTCATCGTCTACTACTTCATCATGGCT
TGTGACCAGTACAGCTGCGCCCTGACTGGCCCTGTGGTGGACATCGTACCAGGACATGCT
CGGCTCTGGACATCTGGGCCAAGACTCCACCTATAACGAGGAAAGCCGCCAGCTCTAT
ACCTTGTGGGTACCTTCCAGGTGCTTCTGTACACGTCTCTCCCTGACTTCTGCCATAAG
TTTCTACCCGGTACGTAGGAGGCATCCAGGAGGGGGCCGTGACTCCTGCAGGGTTGTG
AACAAAGTATCAGATCAATGGCCTGCAAGCCTGGCTCCTCACGCACCTGCTCTGGTTTGA
AACGCTCATCTCCTGTCCTGGTTCTCGCCACCATCATCTTCGACAACCTGGATCCCCTG
CTGTGGTGCGCCAACATCCTTGGCTATGCCGTCTCCACCTTCGCCATGGTCAAGGGCTAC
TTCTTCCCACCAGCGCCAGAGACTGCAAATTCACAGGCAATTTCTTTTACAACACTACATG
ATGGGCATCGAGTTTAACTCCTGGATCGGGAAGTGGTTTGACTTCAAGCTGTTCTTCAAT
GGGCGCCCGGGATCGTGCCTGGACCCTCATCAACCTGCTCCTTCGAGCGAAGCAGCGG
GAGCTCCACAGCCATGTGACCAATGCCATGGTCCCTGGTCAACGTCTGCAGGCCATCTAC
GTGATTGACTTCTTCTGGAACGAAACCTGGTACCTGAAGACCATTGACATCTGCCATGAC
CACTTCGGGTGGTACCTGGGCTGGGGGACTGTGTCTGGCTGCCTTATCTTTACACGCTG
CAGGGTGTGACTTGGTGTACCACCCCGTGCAGCTGTCCACCCCGCACGCCGTGGGCGTC
CTGCTGCTGGGCTGGTGGGCTACTACATCTTCCGGGTGGCCAACCACGAGAAGGACCTG
TTCCGCCGCACGGATGGGCGTGCCTCATCTGGGCAGGAAGCCCAAGGTATCGAGTGC
TCCTACACATCCGCCGATGGGCAGAGGCACCACAGCAAGCTGCTGGTGTGGGCTTCTGG
GGCGTGGCCCGCACTTCAACTACGTGCGGACCTGATGGGAGCCTGGCCTACTGCTG
GCCTGTGGCGGGCCACCTGCTGCCCTACTTCTACATCATCTACATGGCCATCCTGCTG
ACCCACCCTGCCTCCGGGACGAGCACCCTGCGCCAGCAAGTACGGCCGGGACTGGGAG
CGCTACACCGCCGAGTGCCTTACCGCCTGCTGCCTGGAATCTTCTAA
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Clone variation with respect to NM_001360.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001360 unedited

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NGGGCAAAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGCCTCGTGCC
GAATTCGGCACGAGGGTGGAGCAGCGCGCAAGCGAGGCCAGGGGAAGGTGGGCGCAGG
TGAGGGGCGGAGGTGTGCGCAGGACTTTAGCCGGTTGAGAAGGATCAAGCAGGCATTTGG
AGCACAGGTGTCTAGAACTTTTAAAGGGCCGGTTCAAGAAGGAAAAGTTCCCTTCTGCT
GTGAAACTATTTGGCAAGAGGCTGGAGGGCCCAATGGCTGCAAAATCGCAACCCAACATT
CCCAAAGCCAAGAGTCTAGATGGCGTACCAATGACAGAACCGCATCTCAAGGGCAGTGG
GGCCGTGCCTGGGAGGTGGACTGGTTTTCACTGGCGAGCGTCATCTTCTACTGCTGTTT
GCCCCCTTTCATCGTCTACTACTTTCATCATGGCTTGTGACCAAGTACAGCTGCGCCCTGACT
GGCCCTGTGGTGGACATCGTACCCGGACATGCTCGGCTCTCGGACATCTGGGCCAAGACT
CCACCTATAACGAGGAAAGCCGCCAGCTCTATACCTTGTGGGTACCTTCCAGGTGCTT
CTGTACACGTCTCTCCCTGACTTCTGCCATAAGTTTCTACCCGGCTACGTAGGAGGCATC
CAGGAGGGGGCCGTGACTCCTGCAGGGTTGTGAACAAGTATCAGATCAATGGCCTGCAA
GCCTGGCTCCTCACGCACCTGCTCTGGTTTCAAACGCTCATCTCCTGCTCCTGGTTCTCG
CCCACCATCATCTTCGACAACCTGGATCCCCTGCTGTGTTGCGCCACATCCTTGGCTAT
GCCGTCTCCACCTTCGNATGGTCAAGGGCTACTTTTTTCCCACCAGGGCCAGAGACTGG
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Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Steroid biosynthesis

Gene Summary: This gene encodes an enzyme that removes the C(7-8) double bond in the B ring of sterols and catalyzes the conversion of 7-dehydrocholesterol to cholesterol. This gene is ubiquitously expressed and its transmembrane protein localizes to the endoplasmic reticulum membrane and nuclear outer membrane. Mutations in this gene cause Smith-Lemli-Opitz syndrome (SLOS); a syndrome that is metabolically characterized by reduced serum cholesterol levels and elevated serum 7-dehydrocholesterol levels and phenotypically characterized by cognitive disability, facial dysmorphism, syndactyly of second and third toes, and holoprosencephaly in severe cases to minimal physical abnormalities and near-normal intelligence in mild cases. Alternative splicing results in multiple transcript variants that encode the same protein.[provided by RefSeq, Aug 2009]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.