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Product datasheet for RG200480

DHCR7 (NM_001360) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHCR7 (NM_001360) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHCR7
Synonyms:	SLOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG200480 representing NM_001360
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCAAAATCGCAACCCAACATTCCCAAAGCCAAGAGTCTAGATGGCGTCACCAATGACAGAACCG
CATCTCAAGGGCAGTGGGGCCGTGCCTGGGAGGTGGACTGGTTTTCACTGGCGAGCGTCATCTTCCTACT
GCTGTTCGCCCCCTTCATCGTCTACTACTTCATCATGGCTTGTGACCAGTACAGCTGCGCCCTGACCGGC
CCTGTGGTGGACATCGTCACTGGACATGCTCGGCTCTCGGACATCTGGGCCAAGACTCCACCTATAACGA
GGAAAGCCGCCCAGCTCTATACCTTGTGGGTCACCTTCCAGGTGCTTCTGTACACGTCTCTCCCTGACTT
CTGCCATAAGTTTCTACCCGGCTACGTAGGAGGCATCCAGGAGGGGGCCGTGACTCCTGCAGGGGTTGTG
AACAAGTATCAGATCAACGGCCTGCAAGCCTGGCTCCTCACGCACCTGCTCTGGTTTGCAAACGCTCATC
TCCTGTCCTGGTTCTCGCCCACCATCATCTTCGACAACTGGATCCCACTGCTGTGGTGCGCCAACATCCT
TGGCTATGCCGTCTCCACCTTCGCCATGGTCAAGGGCTACTTCTTCCCCACCAGCGCCAGAGACTGCAAA
TTCACAGGCAATTTCTTTTACAACTACATGATGGGCATCGAGTTTAACCCTCGGATCGGGAAGTGGTTTG
ACTTCAAGCTGTTCTTCAATGGGCGCCCCGGGATCGTCGCCTGGACCCTCATCAACCTGTCCTTCGCAGC
GAAGCAGCGGGAGCTCCACAGCCATGTGACCAATGCCATGGTCCTGGTCAACGTCCTGCAGGCCATCTAC
GTGATTGACTTCTTCTGGAACGAAACCTGGTACCTGAAGACCATTGACATCTGCCATGACCACTTCGGGT
GGTACCTGGGCTGGGGCGACTGTGTCTGGCTGCCTTATCTTTACACGCTGCAGGGTCTGTACTTGGTGTA
CCACCCCGTGCAGCTGTCCACCCCGCACGCCGTGGGCGTCCTGCTGCTGGGCCTGGTGGGCTACTACATC
TTCCGGGTGGCCAACCACCAGAAGGACCTGTTCCGCCGCACGGATGGGCGCTGCCTCATCTGGGGCAGGA
AGCCCAAGGTCATCGAGTGCTCCTACACATCCGCCGACGGGCAGAGGCACCACAGCAAGCTGCTGGTGTC
GGGCTTCTGGGGCGTGGCCCGCCACTTCAACTACGTCGGCGACCTGATGGGCAGCCTGGCCTACTGCCTG
GCCTGTGGCGGCGGCCACCTGCTGCCCTACTTCTACATCATCTACATGGCCATCCTGCTGACCCACCGCT
GCCTCCGGGACGAGCACCGCTGCGCCAGCAAGTACGGCCGGGACTGGGAGCGCTACACCGCCGCAGTGCC
TTACCGCCTGCTGCCTGGAATCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

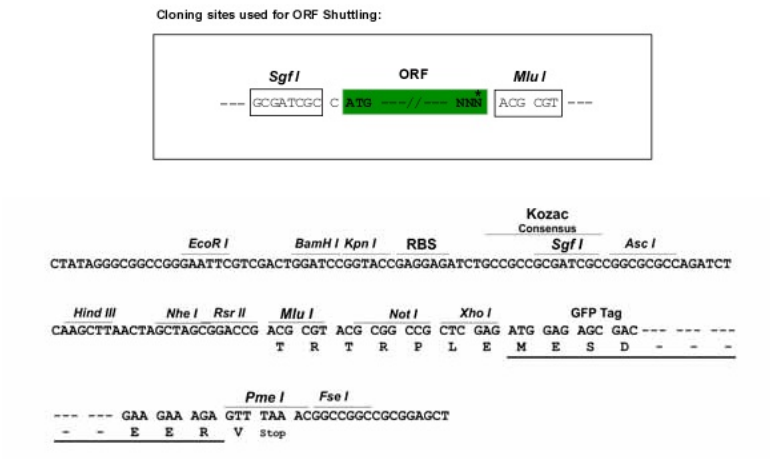
>RG200480 representing NM_001360
Red=Cloning site Green=Tags(s)

MAAKSQPNIPKAKSLDGVTNDRTASQGQWGRAWEVDWFSLASVIFLLLFAPFIVYYFIMACDQYSCALTG
PVVDIVTGHARLSDIWAKTPPITRKAAQLYTLWVTFQVLLYTSLPDFCHKFLPGYVGGIQEGAVTPAGVV
NKYQINGLQAWLLTHLLWFANAHLLSWFSPTIIFDNWIPLLWCANILGYAVSTFAMVKGYFFPTSARDCK
FTGNFFYNYMMGIEFNPRIGKWFDFKLFFNGRPGIVAWTLINLSFAAKQRELHSHVTNAMVLVNVLQAIY
VIDFFWNETWYLKTIDICHDHFGWYLGWGDCVWLPYLYTLQGLYLVYHPVQLSTPHAVGVLLLGLVGYYI
FRVANHQKDLFRRTDGRCLIWGRKPKVIECSYTSADGQRHHSKLLVSGFWGVARHFNYVGDLMGSLAYCL
ACGGGHLLPYFYIIYMAILLTHRCLRDEHRCASKYGRDWERYTAAVPYRLLPGIF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

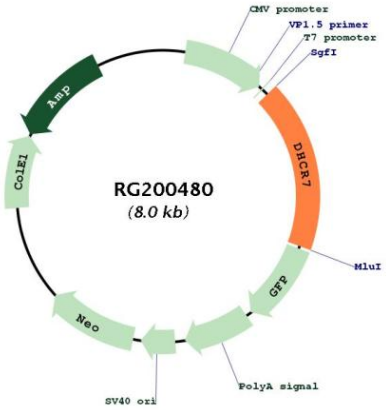
Cloning Scheme:



ACCN:	NM_001360
ORF Size:	1425 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001360.2, NP_001351.2
RefSeq Size:	2665 bp
RefSeq ORF:	1428 bp
Locus ID:	1717
UniProt ID:	Q9UBM7

Cytogenetics:	11q13.4
Domains:	ERG4_ERG24
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]

Product images:



Circular map for RG200480