

Product datasheet for **MR223420**

Dhcr7 (NM_007856) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhcr7 (NM_007856) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dhcr7
Synonyms:	AA409147
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223420 representing NM_007856
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTCGAAATCCAGCACAACGCTCCCAAAGTCAAGAGTCCCAACGCAAGGCTGGATCTCAAGGAC
 AATGGGGCGTGCTGGGAAGTGGACTGGTTCTCCCTGGCCAGCATCATTTTCCTGCTGCTTTCGCTCC
 ATTCATTGTGTACTACTTCATCATGGCATGTGACCAGTACAGCTGCTCCCTGACTGCCCCCGCATTGGAT
 ATAGCTACAGGCCATGCTAGTCTGGCAGACATTTGGCCAAGACACCACCTGTGACAGCTAAAGTGCC
 AACTGTATGCCTTGTGGGTGAGCTTCCAGGTGCTGCTTTATTCCTGGCTTCTGACTTCTGCCACAGATT
 TCTGCCAGGTTATGTGGGAGCGTCCAAGAAGGTGCCATTACTCCAGCAGGGGTTGTAACAAGTATGAG
 GTGAATGGGCTGCAAGCCTGGCTCATTACCCACATCCTCTGGTTGTGAACGCTTACCTCTATCCTGGT
 TCTCCCCACCATCATCTTTGACAACCTGGATCCCCTTGTATGGTGTGCCAACATCCTGGGCTATGCCGT
 GTCCACGTTTCGAATGATCAAGGCTACCTGTTCCCCACAGTGCCGAAGACTGCAAATTCACAGGCAAT
 TTCTTCTACAACATATGATGGGAATTGAGTTCAACCCCGCATCGGGAAGTGGTTTGACTTCAAGCTGT
 TCTTCAATGGACGACCAGGGATTGTAGCCTGGACCCTCATTAACTGTCTTTCGCTGCCAAGCAGCAGGA
 GCTTTATGGCCATGTGACCAACTCCATGATTTTGGTCAATGTCTTGCAGGCCATCTACGTGTAGACTTC
 TTCTGGAATGAAACCTGGTATCTGAAGACCATCGACATCTGCCATGACCACTTTGGGTGGTACCTAGGCT
 GGGGAGATTGTGTGTGGCTGCCCTACCTCTACACACTGCAGGGCCTGTACTTGGTGTACCACCCTGTGCA
 GCTCTCCACCCCAATGCCTTGGGCATCCTGCTGCTTGGCCTCGTGGGTACTATATCTCCGAATGACC
 AACCATCAGAAGGACCTGTTCCGCAGGACAGATGGCGCTGCCTCATCTGGGCAAGAAGCCCAAGGCCA
 TTGAGTCTCTACACATCAGCTGATGGGCTGAAGCACCACAGCAAGCTTGGTCTCAGGCTTCTGGGG
 TGTGGCCCGCCACTTCAACTATACTGGTACTGATGGGCAGCCTTGCCTACTGCCTGGCTTGTGGCGGT
 GGCCACCTCCTCCCTACTTTTACATCATCTATGACTATCCTGCTACCCACCCTGCCTCCGTGATG
 AACACCGCTGTGCCAACAAGTATGGCCGTGATTGGGAGCGCTACACAGCCGCTGTGCCCTACCGCTGCT
 GCCTGGAATCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223420 representing NM_007856
 Red=Cloning site Green=Tags(s)

MASKSQHNAPKVKSPNGKAGSQGWGRAWEVDWFLASIIIFLLLFAPFIVVYFIMACDQYSCSLTAPALD
 IATGHASLADIWAKTPPVTAQAAQLYALWVSFQVLLYSWLPDFCHRFLPGYVGGVQEGAITPAGVVKYE
 VNGLQAWLITHILWFVNAYLLSWFSPTIIFDNWIPLWCANILGYAVSTFAMIKGYLFPTSAEDCKFTGN
 FFYNYMMGIEFNPRIGKWFDFKLFNRPVIAWTLINLSFAAKQQLYGHVTNSMILVNVLQAIYVLDL
 FWNETHYKIDICHDFGWYLGWDCVWLPYLYTLQGLYLVYHPVQLSTPNALGILLGLVGYIFRMT
 NHQKDLFRRTDGRCLIWGKPKAIECSYTSADGLKHSKLLVSGFWGVARHFNYTGDLMSLAYCLACGG
 GHLLPYFYIYMTILLTHRCLRDEHRCANKYGRDWERYTAAVPRLLPGIF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_b03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007856

ORF Size: 1413 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_007856.2](#), [NP_031882.1](#)
RefSeq Size: 2845 bp

RefSeq ORF: 1416 bp

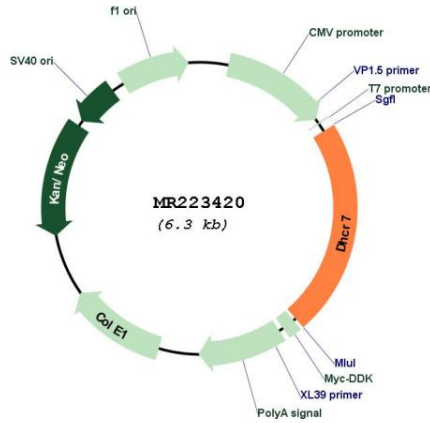
Locus ID: 13360

UniProt ID: [O88455](#)
Cytogenetics: 7 F5

MW: 54.4 kDa

Gene Summary: Production of cholesterol by reduction of C7-C8 double bond of 7-dehydrocholesterol (7-DHC).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223420