

Product datasheet for **RC231420**

LDL Receptor (LDLR) (NM_001195799) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LDL Receptor (LDLR) (NM_001195799) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LDL Receptor
Synonyms:	FH; FHC; FHCL1; LDLCQ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC231420 representing NM_001195799
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCTGGGGCTGGAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGGGGACTGCAGTGG
 GCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGGGTCTGCGA
 TGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTCCCCAAGACGTGCTCCAG
 GACGAGTTTCGCTGCCACGATGGGAAGTGCATCTCTCGGCAGTTCGTCTGTGACTCAGACCGGGACTGCT
 TGGACGGCTCAGACGAGGCTCCTGCCCGGTGCTCACCTGTGGTCCCAGCTTCCAGTGAACAGCTC
 CACCTGCATCCCCAGCTGTGGGCTGCGACAACGACCCCGACTGCGAAGATGGTCGGATGAGTGGCCG
 CAGCGCTGAGGGGTCTTACGTGTTCCAAGGGGACAGTAGCCCTGCTCGGCCCTCGAGTTCAGTCC
 TAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGCCCCGACTGCAAGGACAAATCTGACGA
 GAAAACTGCGCTGTGGCCACCTGTCGCCCTGACGAATCCAGTCTGATGGAAGTGCATCCATGGC
 AGCCGGCAGTGTACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGCTGCGTTAATGTGACAC
 TCTGCGAGGGACCAACAAGTTCAGTGTACAGCGGCGAATGCATCACCTGGACAAAGTCTGCAACAT
 GGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCAGGACCAACGAATGCTTGGACAAC
 AACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCGACGGCTTCC
 AGCTGGTGGCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCAGACCTGCAGCCAGCTCTG
 CGTGAACCTGGAGGTGGCTACAAGTCCAGTGTGAGGAAGGCTTCCAGCTGGACCCACACGAAGGCC
 TGCAAGGCTGTGGGCTCCATCGCTACCTTCTTCCCAACCGCACGAGGTGAGGAAGATGACGCTGG
 ACCGGAGCGAGTACACCAGCCTCATCCCCAACCTGAGGAACGTGGTGCCTCTGGACACGGAGGTGGCCAG
 CAATAGAATCTACTGGTCTGACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCACGGC
 GTCTTCTTCTATGACACCGTCTCAGCAGAGACATCCAGGCCCGACGGGCTGGCTGTGGACTGGATCC
 ACAGCAACATCTACTGGACCGACTCTGTCTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAG
 GAAAACGTTATTAGGGAGAACGGCTCCAAGCCAAGGGCCATCGTGGTGGATCCTGTTTATGGTTCATG
 TACTGGACTGACTGGGAACTCCCGCCAAGATCAAGAAAGGGGGCTGAATGGTGTGGACATCTACTCGC
 TGGTGACTGAAAACATTCAGTGGCCCAATGGCATCACCTAGATCTCCTCAGTGGCCGCTCTACTGGGT
 TGACTCCAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGCAACCGGAAGACCATCTTGGAGGAT
 GAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTTTGGACAGATATCATCA
 ACGAAGCCATTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTGTTGGCTGAAAACCTACTGTC
 CCCAGAGGATATGGTTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAAGTGGTGTGAGAGGACCACC
 CTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCGCAGATCAACCCCACTCGCCCAAGTTTA
 CCTGCGCTGCCCGGACGGCATGCTGCTGGCCAGGGACATGAGGAGTGCCTCACAGAGGCTGAGGCTGC
 AGTGGCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGCTCCACAGCCGTAAGGACACAGCACACA
 ACCACCCGACCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACACGGTGGAGATAG
 TGACAAATGTCTCACCAAGCTCTGGGCGAGTGTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAG
 GGCTCTGTCCATTGTCTCCCATCGTGCTCCTCGTCTTCTTTGCTGGGGTCTTCTTCTATGGAAG
 AACTGGCGGCTTAAGAACATCAACAGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATG
 AGGTCCACATTTGCCACAACAGGACGGCTACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGA
 CGTGGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231420 representing NM_001195799
Red=Cloning site Green=Tags(s)

MGPWGWKLRWTVALLAAAGTAVGDR CERNEFQCQDGK C I S Y K W V C D G S A E C Q D G S D E S Q E T C S P K T C S Q
D E F R C H D G K C I S R Q F V C D S D R D C L D G S D E A S C P V L T C G P A S F Q C N S S T C I P Q L W A C D N D P D C E D G S D E W P
Q R C R G L Y V F Q G D S S P C S A F E F H C L S G E C I H S S W R C D G G P D C K D K S D E E N C A V A T C R P D E F Q C S D G N C I H G
S R Q C D R E Y D C K D M S D E V G C V N V T L C E G P N K F K C H S G E C I T L D K V C N M A R D C R D W S D E P I K E C G T N E C L D N
N G G C S H V C N D L K I G Y E C L C P D G F Q L V A Q R R C E D I D E C Q D P D T C S Q L C V N L E G G Y K C Q C E E G F Q L D P H T K A
C K A V G S I A Y L F F T N R H E V R K M T L D R S E Y T S L I P N L R N V V A L D T E V A S N R I Y W S D L S Q R M I C S T Q L D R A H G
V S S Y D T V I S R D I Q A P D G L A V D W I H S N I Y W T D S V L G T V S V A D T K G V K R K T L F R E N G S K P R A I V V D P V H G F M
Y W T D W G T P A K I K K G L N G V D I Y S L V T E N I Q W P N G I T L D L L S G R L Y W V D S K L H S I S S I D V N G G N R K T I L E D
E K R L A H P F S L A V F E D K V F W T D I I N E A I F S A N R L T G S D V N L L A E N L L S P E D M V L F H N L T Q P R G V N W C E R T T
L S N G G C Q Y L C L P A P Q I N P H S P K F T C A C P D G M L L A R D M R S C L T E A E A A V A T Q E T S T V R L K V S S T A V R T Q H T
T T R P V P D T S R L P G A T P G L T T V E I V T M S H Q A L G D V A G R G N E K K P S S V R A L S I V L P I V L L V F L C L G V F L L W K
N W R L K N I N S I N F D N P V Y Q K T T E D E V H I C H N Q D G Y S Y P S R Q M V S L E D D V A

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_001195799

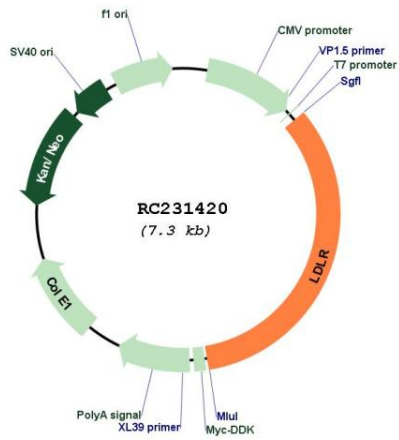
ORF Size: 2457 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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:	NM_001195799.2
RefSeq ORF:	2460 bp
Locus ID:	3949
UniProt ID:	P01130
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Endocytosis
MW:	91.4 kDa
Gene Summary:	The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. Low density lipoprotein (LDL) is normally bound at the cell membrane and taken into the cell ending up in lysosomes where the protein is degraded and the cholesterol is made available for repression of microsomal enzyme 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase, the rate-limiting step in cholesterol synthesis. At the same time, a reciprocal stimulation of cholesterol ester synthesis takes place. Mutations in this gene cause the autosomal dominant disorder, familial hypercholesterolemia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Sep 2010]

Product images:



Circular map for RC231420