

## Product datasheet for **RC230883**

### LDL Receptor (LDLR) (NM\_001195798) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LDL Receptor (LDLR) (NM_001195798) 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:**

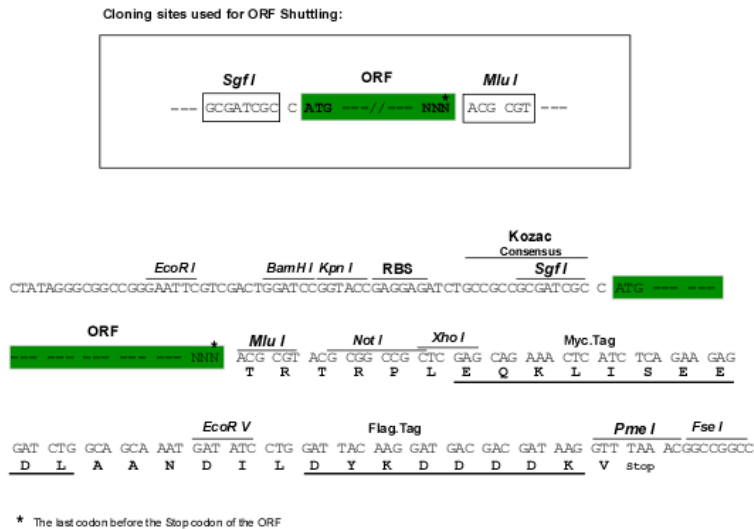
>RC230883 representing NM\_001195798.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCCGGGACTGCAGTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:** >Peptide sequence encoded by RC230883  
Blue=ORF Red=Cloning site Green=Tag(s)

MGPWGWKLRWTVALLAAAGTAVGDR CERNEFQCQDGKCI SYKWVCDGSAECQDGSDESQETCLSVTCK  
SGDFSCGGRVNR CIPQFWRC DGQVDCDNGSDEQGCPPKTC SQDEF RCHDGKCI SRQFVCDSDRDCLDGS  
DEASCPVLT CGPAS FQCNSSTCIPQLWACDNDPDCEDGSDEWPQRCRGL YVFQGDSSPCSAFEHCLSG  
ECIHSSWRCDGGPDCKDKSDEENCAVATCRPDEFQCSDGNCIHGSRQCDREYDCKDMSDEVGCVNVTLC  
EGPNKFKCHSGECITLDKVCNMARDCRDWSDEPIKECGTNECLDNNGGCSHVCNDLKIGYECLCPDGFQ  
LVAQRCEIDECQDPDTC SQLCVNLEGGYKCQCEEGFLDPHTKACKAVGSIAYLFFTNRHEVRKMTL  
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IHSNIYWTDSVLGTVSVADTKGVKRKTLFRENGSKPRAIVVDPVHGFMWTDWGT PAKIKKGLNGVDI  
YSLVTENIQWPNGITLDLLSGRLYWVDSKLHSSIDVNGGNRKTILEDEKRLAHPFSLAVFEDKVFWT  
DIINEAIFSANRLTGSDVNLLAENLLSPEDMVL FHNLTQPRGVNWCERTT L SNGGCQYLCLPAPQINPH  
SPKFTCACPDGMLLARDMR SCLTEA EAAVATQETSTVRLKVSSTAVRTQHTTTRPV P DTSRLPGATPGL  
TTVEIVTMSHQALGDVAGRGNEKKPSSVRAL SIVLP I VLLVFLCLGVFLLWKNWRLKNINSINF DNPVY  
QKTTEDEVHICHNQDGYSPSRQMVSLEDDVA  
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001195798

**ORF Size:** 2580 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 Size:** 5286 bp

**RefSeq ORF:** 2577 bp

**Locus ID:** 3949

**UniProt ID:** [P01130](#)

**Cytogenetics:** 19p13.2

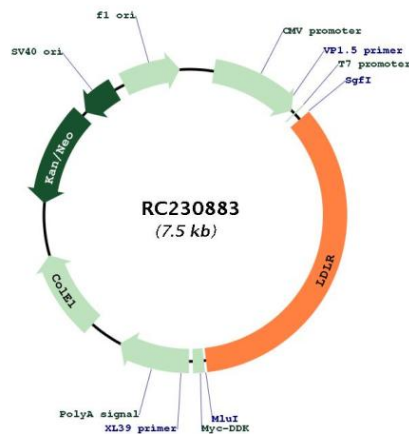
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Endocytosis

**MW:** 95.4 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 RC230883