

## Product datasheet for **SC219003**

### LDL Receptor (LDLR) (NM\_000527) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	LDL Receptor (LDLR) (NM_000527) Human 3' UTR Clone
Symbol:	LDL Receptor
Synonyms:	FH; FHC; FHCL1; LDLCQ2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_000527
Insert Size:	2000 bp



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**Insert Sequence:** >SC219003 3'UTR clone of NM\_000527  
 The sequence shown below is from the reference sequence of NM\_000527. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCTGCCAGAACCCTTCC
TGAGACCTCGCCGGCCTTGTATTTATTCAAAGACAGAGAAGACCAAGCATTGCCTGCCAGAGCTTTGTT
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TTTCTCTCCAGGAAGTTTTGAGTTTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGG
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CTATGCAAGCCTTGCTAGACAGCCAGGTTAGCCTTTGCCCTGTCAACCCCGAATCATGACCCACCCAGT
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GTCAGTGGTACCCCTTAATATTTAATTAAGTGCCTGAGACACCCGGTTACCTTGGCCGTGAGGACACGTG
GCCTGCACCCAGGTGTGGCTGTGAGGACACCAGCCTGGTGCCATCCTCCCGACCCCTACCCACTTCCA
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CCAATCTTGTGCTTGTGAGGATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCT
GTAATCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTGAGGATCGAGACCATCCTGGCT
AACACGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGT
CCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGCAGTGAAGCGA
GATTGCGCCACTGCAGTCCGAGTCTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAC
AAAAAAAAACCATGCATGGTGCATCAGCAGCCCATGGCCTCTGGCCAGGCATGGCAGGCTGAGGTGGG
AGGATGGTTTGGCTCAGGCATTTGAGGCTGTGCTGAGCTATGATTATGCCACTGCTTCCAGCCTGGG
CAACATAGTAAGACCCCATCTCTAAAAAATGAATTTGGCCAGACACAGGTGCCTCACGCCTGTAATCC
CAGCACTTTGGGAGGCTGAGCTGGATCACTTGTGTTGAGGATGAGGAGTTGGAGACCAGGCCTGAGCAACAAGC
GAGATCCCATCTCTACAAAAACCAAAAGTTAAAAATCAGCTGGGTACGGTGGCAGCTGCCTGTGATCC
CAGCTACTTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCAGGAGGTGGAGGTTGCAGTGAAGCATGA
TCGAGCCACTGCCTCCAGCCTGGGCAACAGATGAAGACCCATTTTCAGAAATACAACTATAAAAAAAT
AAATAAATCCTCCAGTCTGGATCGTTTACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**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](#)

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000527.5](#)

**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]

**Locus ID:**

3949

**MW:**

73.6