

Product datasheet for **SC117993**

VLDL Receptor (VLDLR) (NM_003383) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VLDL Receptor (VLDLR) (NM_003383) Human Untagged Clone
Tag:	Tag Free
Symbol:	VLDL Receptor
Synonyms:	CAMRQ1; CARMQ1; CHRMQ1; VLDL-R; VLDLRCH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003383, the custom clone sequence may differ by one or more nucleotides

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ATGGGCACGTCCGCGCTCTGGGCGCTCTGGCTGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGAGCGGCG
CCACCGGAACCGGGAGAAAAGCCAAATGTGAACCTCCCAATCCAGTGACAAAATGGTCGCTGTATTAC
GCTGTTGTGAAAATGTGATGGGGATGAAGACTGTGTTGACGGCAGTGATGAAAAGAACTGTGTAAGAAG
ACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTGTTCCAGCCGATGGAAGTGTGATGGAG
ATCCTGACTGCGAAGATGGTTCAGATGAAAGCCCAGAACAGTGCCATATGAGAACATGCCGCATACATGA
AATCAGCTGTGGCGCCATTCTACTCAGTGTATCCCAGTGTCTGGAGATGTGATGGTAAAAATGATTGT
GACAGTGGAGAAGATGAAGAAAAGTGTGGAATATAACATGTAGTCCCGACGAGTTCACCTGCTCCAGTG
GCCGCTGCATCTCCAGGAACTTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGTGAGCTGGA
CTGTGCCCGCCAACCTGTGGCGCCATGAGTTCAGTGCAGCACCTCCTCCTGCATCCCCATCAGCTGG
GTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTCCCTGGAGCAGTGTGGCCGTGAGCCAG
TCATACACACCAAGTGTCCAGCCAGCGAAATCCAGTGGCGCTCTGGCAGTGCATCCATAAGAAGTGGCG
ATGTGATGGGGACCCTGACTGCAAGGATGGCAGTGTGAGGTCAACTGTCCCTCTCGAAGTTGCCACCT
GACCAATTTGAATGTGAGGATGGCAGTGCATCCATGGCAGCAGGCAGTGTAAATGGTATCCGAGACTGTG
TCGATGGTTCCGATGAAGTCAACTGCAAAAATGTCAATCAGTGTCTGGGCCCTGGAAAATCAAGTGCAG
AAGTGGAGAATGCATAGATATCAGCAAAGTATGTAACCAGGAGCAGGACTGCAGGGACTGGAGTGTGAG
CCCCTGAAAGAGTGTATATAACGAATGCTTGGTAAATAATGGTGGATGTTCTCATATCTGCAAAGACC
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TGATGAATGCCAAAATCCAGGAATCTGCAGTCAAATTTGATCAACTTAAAAGCGGTTACAAGTGTGAA
TGTAGTCGTGGCTATCAAATGGATCTTGCTACTGGCGTGTGCAAGGCAGTAGGCAAGCAAGTGTGCA
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GCTAAGAAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAAAATTTCTGGCCGATCTAAGCCAA
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ATAGCTGTGGACCCACTGTCTGGCTTTGTTTACTGGTCAGACTGGGGTGAACCAGCTAAAATAGAAAAG
CAGGAATGAATGGATTTCGATAGACGTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACACT
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TCAGGTAAAAATGGTGTGAAGAAGACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCCAC
AGATTAATGATCACTCTCCAAAATATACCTGTTCTGTCCAGTGGGTACAATGTAGAGGAAAATGGCCG
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GATGTGGCGGAATTGGCAACACAAGAACATGAAAAGCATGAACTTTGACAATCCTGTGACTTGAAAACC
ACTGAAGAGGACCTCTCCATAGACATTGGTAGACACAGTCTTCTGTTGGACACACGTACCCAGCAATAT
CAGTTGTAAGCACAGATGATGATCTAGCTTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003383 unedited
 GTTCGGGATATTTGTATACGACTTACTATAGGGCGGCCGCGNAATCGGCACGAGGCGCCA
 ACTCCTTCCCCTCCTTCTCCCCCTTTCCCTCCCCGCCCCACCTTCTTCTCCTTTTCGG
 AAGGGCTGGTAACTTGTGTGCGGAGCGAACCGCGCGCGCGCGGCACCATCCAGGCGGG
 CACCATGGGCACGTCCGCGCTCTGGGCGCTCTGGCTGCTGCTCGCGCTGTGCTGGGCGCC
 CCGGGAGAGCGGCGCCACCGGAACCGGGAGAAAAGCCAAATGTGAACCTCCCAATTCCA
 GTGCACAAATGGTCGCTGTATTACGCTGTTGTGGAAATGTGATGGGGATGAAGACTGTGT
 TGACGGCAGTGATGAAAAGAAGCTGTGTAAGAAGACGTGTGCTGAATCTGACTTCGTGTG
 CAACAATGGCCAGTGTGTTCCCAGCCGATGGAAGTGTGATGGAGATCCTGACTGCGAAGA
 TGGTTCAGATGAAAGCCCAGAACAGTGCCATATGAGAACATGCCGCATACATGAAATCAG
 CTGTGGCGCCATTCTACTCAGTGTATCCAGTGTCTGGAGATGTGATGGTGAATGA
 TTGTGACAGTGGAGAAGATGAAGAAAAGTGGCAATATAACATGTAGTCCCACGAGTT
 CACCTGCTCCAGTGGCCGCTGCATCTCCAGGAACCTTTGTATGCAATGGCCAGGATGACTG
 CAGCGATGGCAGTGTGAGCTGCACTGTGCCCCGCCAACCTGTGGCGCCCATGAGTTCCA
 GTGCAGCACCTTCTCCTGCATCCCCATCAACTGGGTATGCGACGATGATGCAAAGTCTC
 CGACCAATCTGATGAAGTCTGGAGCACTGTGGCCGTGAGCCAGTCATACACCCAAGGG
 TCCAGCCAGCGAATTCCAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003383 unedited
 CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAAGCTGCTGGTTTAATT
 TTTTAGCACTTGAAGAAAAATGTACAGTAGTTGAACACTCGGTCTTTGCAAACCTCCAT
 TGAGGTCAAAGATATCATTACATACGTACAAAATTAGTTTATAAATTTTTTGGCAATTC
 ATCTTAGTAACCCGTTTTGTCCTATTGCCATTGTCCCAACCATGAAAAAGTTTACAATA
 ATTTACATAGAAATATTTCAAAGTGCTTAAGAATAGTGATTGTTCTCTGGGATATTTAC
 AGATGGCTATACAATGTATGTACAGGTGGTATACACTATAGCACAAGTTTCACTGCTGG
 AATATGGCTTTCTAGGAAAAGTGCATATTTGGCCAGAGGTGGCAATACTGTCTAGAAAT
 CAAGGGTTACAGATACTCGTAACCACATCCAAAGCTGAAGTAGAATGTGGACAAGAATA
 TTTACAAAAGTAATATAAAAACGGTCAAGTACACAAGCTTGATCCACGCAAAGGTATCTT
 GATGTTCTTCCAGCCGAGAGGAAGAAAAGAGACTTCAGCTGCTGGCTCGGTTACCATT
 CGACGGGGTATTATTTGTTTACACCTCANAGGTCAACATTTGTACAGAAAGTCAAGCTA
 GATCATCATCTGTGCTTACAAGTATATTGCTGGGTACGTGTGTCACAGAAAGCAAGTGT
 GTCTACCAATGTCTATGGGAGAGTCTCTTTCAGTGGGTTTCAAGTACACAGGGATGNCA
 AAGNTCATGCCTTTTCATGTNCTTGGGTTGCCAATTCGNCACATCAAGTAGCCACCTAC
 TGCTNGCATCACTAGAGCAGAGGAANAATGGCCATGCCGCAAAGTCCCTTTGNGGGAC
 ACTGACTCTGAAGTCTGGGGCACATTGATCCTTGAAGCTN

Restriction Sites:

NotI-NotI

ACCN:

NM_003383

Insert Size:

3700 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](#)

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_003383.3](#), [NP_003374.3](#)

RefSeq Size: 3646 bp

RefSeq ORF: 2622 bp

Locus ID: 7436

UniProt ID: [P98155](#)

Cytogenetics: 9p24.2

Domains: ldl_recept_b, EGF_CA, ldl_recept_a, EGF

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The low density lipoprotein receptor (LDLR) gene family consists of cell surface proteins involved in receptor-mediated endocytosis of specific ligands. This gene encodes a lipoprotein receptor that is a member of the LDLR family and plays important roles in VLDL-triglyceride metabolism and the reelin signaling pathway. Mutations in this gene cause VLDLR-associated cerebellar hypoplasia. Alternative splicing generates multiple transcript variants encoding distinct isoforms for this gene. [provided by RefSeq, Aug 2009]
 Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.