

Product datasheet for **RC221117**

VLDL Receptor (VLDLR) (NM_001018056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VLDL Receptor (VLDLR) (NM_001018056) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VLDL Receptor
Synonyms:	CAMRQ1; CARMQ1; CHRMQ1; VLDL-R; VLDLRCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221117 representing NM_001018056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCACGTCCGCGCTCTGGGCGCTCTGGCTGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGAGCGGCG
 CCACCGGAACCGGAGAAAAGCCAAATGTGAACCTCCCAATCCAGTGACAAAATGGTCGCTGTATTAC
 GCTGTTGTGAAAATGTGATGGGGATGAAGACTGTGTTGACGCGCAGTGATGAAAAGAAGTGTGAAAAGAAG
 ACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTGTTCCAGCCGATGGAAGTGTGATGGAG
 ATCCTGACTGCGAAGATGGTTCAGATGAAAGCCCAGAACAGTGCCATATGAGAACATGCCGCATACATGA
 AATCAGCTGTGGCGCCATTCTACTCAGTGTATCCAGTGTCTGGAGATGTGATGGTAAAATGATTGT
 GACAGTGGAGAAGATGAAGAAAAGTGTGGCAATATAACATGTAGTCCCGACGAGTTCACCTGCTCCAGTG
 GCCGCTGCATCTCCAGGAACCTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGTGAGCTGGA
 CTGTGCCCGCCAACCTGTGGCGCCATGAGTTCAGTGCAGCACCTCCTCTGCATCCCCATCAGCTGG
 GTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTCCCTGGAGCAGTGTGGCCGTGAGCCAG
 TCATACACACCAAGTGTCCAGCCAGCGAAATCCAGTGGCGCTCTGGCGAGTGCATCCATAAGAAAGTGGCG
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 CCCCTGAAAGAGTGTATATAAACAAGTGTGGTAAATAATGGTGGATGTTCTCATATCTGCAAAAGACC
 TAGTTATAGGCTACGAGTGTGACTGTGCAGCTGGGTTTGAAGTGTGATAGATAGGAAAACCTGTGGGAAAT
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 AAGGCTATCTTCAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAAATGATCGACAATGTCTATA
 ATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACTGGACTGATGCGGCTTCTAAGACTAT
 TTCAGTAGCTACCCTAGATGGAACCAAGAGGAAGTTCCTGTTAACTCTGACTTGCGAGAGCCTGCCTCC
 ATAGCTGTGGACCCACTGTCTGGCTTTGTTTACTGGTCTGACTGGGGTGAACCAGCTAAAATAGAAAAAG
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 GCATGGGCCATTCTTCTCTTTGCTCTTAGTGATGGCAGCAGTAGGTGGCTACTTGATGTGGCGGAATT
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 CTCCATAGACATTGGTAGACACAGTCTTCTGTTGGACACACGTACCCAGCAATATCAGTTGTAAGCACA
 GATGATGATCTAGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221117 representing NM_001018056
Red=Cloning site Green=Tags(s)

MGTSALWALWLLLALCWAPRESGATGTGRKAKCEPSQFQCTNGRCITLLWKCDGDEDCVDGSDEKNCVKK
 TCAESDFVCNNGQCVPSRWKCDGDPDCEDGSDESPEQCHMRTCRIHEISCGAHSTQCIPVSWRCDGENDC
 DSGEDEENCGNITCSPDEF TCSSGR CISRNFCVNGQDDCSDGSDELDCAPPTCGAHEFQCSTSSCIPISW
 VCDDADACSDQSDLESLEQCGRQPVIIHTKCPASEIQCGSGECIHKKWRCDGDPDCDGSDEVNCP SRTC RP
 DQFECEDGSCIHGSRQCNGIRDCVDGSDEVNCKNVNQCLGPGKFKCRSGECIDI SKVCNQEQDCRDWSDE
 PLKECHINECLVNNGGCSHICKDLVIGYECDAAGFELIDRKTCTGDIDECQNP GICSQICINLKG GYKCE
 CSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQ
 KAIFASIDDKVGRHVKMIDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGT KRKFLFNSDLREPAS
 IAVDPLSGFVYWSDWGEPAKIEKAGMNGFDRRPLVTADIQWPNGITLDL IKSRLYWLDSKLHMLSSVDLN
 GQDRRIVLKSLEFLAHLALTI FEDRVYWIDGENEAVYGANKFTGSELATLVNNL NDAQDIIVYHEL VQP
 SGKNWCEEDMENGGEYLCLPAPQINDHSPKYTCSCPSGVNVEENGRDCQRINVTAVSEVSVPPKGTSA
 AWAILPLLLL VMAAVGGYLMWRNWQHKNM KSMFNPNVYLKTTEEDLSIDIGRHSASVGH TYP AISVVST
 DDDLA

TRTRPLEQKLISEEDLANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

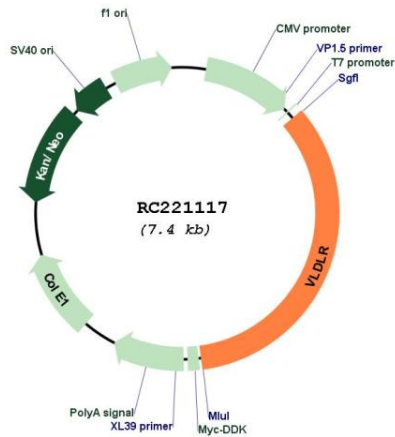
Cloning Scheme:



ACCN:	NM_001018056
ORF Size:	2535 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001018056.3
RefSeq Size:	3562 bp
RefSeq ORF:	2538 bp
Locus ID:	7436
UniProt ID:	P98155
Cytogenetics:	9p24.2
Protein Families:	Druggable Genome, Transmembrane
MW:	93.38 kDa

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]

Product images:


Circular map for RC221117