

Product datasheet for **RC211796**

VLDL Receptor (VLDLR) (NM_003383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VLDL Receptor (VLDLR) (NM_003383) 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:**

>RC211796 representing NM_003383
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCACGTCCGCGCTCTGGGCGCTCTGGCTGCTGCTCGCGCTGTGCTGGGCGCCCCGGGAGAGCGGCG
 CCACCGGAACCGGAGAAAAGCCAAATGTGAACCTCCCAATCCAGTGCACAAATGGTCGCTGTATTAC
 GCTGTTGTGAAAATGTGATGGGGATGAAGACTGTGTTGACGCGCAGTGATGAAAAGAACTGTGTAAGAAG
 ACGTGTGCTGAATCTGACTTCGTGTGCAACAATGGCCAGTGTGTTCCAGCCGATGGAAGTGTGATGGAG
 ATCCTGACTGCGAAGATGGTTCAGATGAAAGCCAGAACAGTGCCATATGAGAACATGCCGCATACATGA
 AATCAGCTGTGGCGCCATTCTACTCAGTGTATCCAGTGTCTGGAGATGTGATGGTAAAATGATTGT
 GACAGTGGAGAAGATGAAGAAAAGTGTGGCAATATAACATGTAGTCCCGACGAGTTCACCTGCTCCAGTG
 GCCGCTGCATCTCCAGGAACCTTGTATGCAATGGCCAGGATGACTGCAGCGATGGCAGTGTGAGCTGGA
 CTGTGCCCGCCAACCTGTGGCGCCATGAGTTCAGTGCAGCACCTCCTCCTGCATCCCCATCAGCTGG
 GTATGCGACGATGATGCAGACTGCTCCGACCAATCTGATGAGTCCCTGGAGCAGTGTGGCCGTGAGCCAG
 TCATACACACCAAGTGTCCAGCCAGCGAAATCCAGTGGCGCTCTGGCGAGTGCATCCATAAGAAGTGGCG
 ATGTGATGGGGACCCTGACTGCAAGGATGGCAGTGTGAGGTCAACTGTCCCTCTCGAACTTGCCGACCT
 GACCAATTTGAATGTGAGGATGGCAGCTGCATCCATGGCAGCAGGCGAGTGAATGGTATCCGAGACTGTG
 TCGATGGTCCGATGAAGTCAACTGCAAAAATGTCAATCAGTGTGGGCCCTGGAAAATCAAGTGCAG
 AAGTGGAGAATGCATAGATATCAGCAAAGTATGTAAACCAGGAGCAGGACTGCAGGACTGGAGTGTGAG
 CCCCTGAAAGAGTGTATATAAACAAGTGTGGTAAATAATGGTGGATGTTCTCATATCTGCAAGACC
 TAGTTATAGGCTACGAGTGTGACTGTGCAGCTGGGTTTGAAGTGTGATAGATAGGAAAACCTGTGGAGC
 TGATGAATGCCAAAATCCAGGAATCTGCAGTCAAATTTGTATCAACTTAAAAGGCGGTTACAAGTGTGAA
 TGTAGTCGTGGCTATCAATGGATCTTGCTACTGGCGTGTGCAAGGCAGTAGGCAAGAGCCAAGTCTGA
 TCTTCACTAATCGAAGAGACATCAGGAAGATTGGCTTAGAGAGGAAAAGATATATCCAAGTGTGAAACA
 GCTAAGAAACACTGTGGCTCTCGATGCTGACATTGCTGCCAGAAAATTTCTGGCCGATCTAAGCCAA
 AAGGCTATCTTCAAGTGCCTCAATTGATGACAAGGTTGGTAGACATGTTAAAATGATCGACAATGTCTATA
 ATCCTGCAGCCATTGCTGTTGATTGGGTGTACAAGACCATCTACTGGACTGATGCGGCTTCTAAGACTAT
 TTCAGTAGCTACCCTAGATGGAACCAAGAGGAAGTTCTGTAACTCTGACTTGCAGAGCCTGCCTCC
 ATAGCTGTGGACCACTGTCTGGCTTTGTTTACTGGTCAAGTGGGTGAAACAGCTAAAATAGAAAAG
 CAGGAATGAATGGATTCGATAGACGCTCCACTGGTGACAGCGGATATCCAGTGGCCTAACGGAATTACCT
 TGACCTTATAAAAAGTCGCCTCTATTGGCTTGATTCTAAGTTGCACATGTTATCCAGCGTGGACTTGAAT
 GGCCAAGATCGTAGGATAGTACTAAAGTCTCTGGAGTTCCTAGCTCATCCTCTTGCACTAACAATATTTG
 AGGATCGTGTCTACTGGATAGATGGGAAAATGAAGCAGTCTATGGTGGCAATAAATTTCACTGGATCAGA
 GCTAGCCACTCTAGTCAACAACCTGAATGATGCCAAGACATCATTGTCTATCATGAACTGTACAGCCA
 TCAGGTAATAATGGTGTGAAGAAGACATGGAGAATGGAGGATGTGAATACCTATGCCTGCCAGCACCAC
 AGATTAATGATCACTCTCAAAAATACCTGTTCTGTCCAGTGGGTACAATGTAGAGGAAAATGGCCG
 AGACTGTCAAAGTACTGCAACTACTGTGACTTACAGTGAACAAAAGATACGAACACAACAGAAAATTTCA
 GCAACTAGTGGACTAGTTCTGGAGGGATCAATGTGACCACAGCAGTATCAGAGGTCAGTGTCCCCCAA
 AAGGGACTTCTGCCGATGGGCCATTCTTCTCTCTTGTCTTAGTGTGAGCAGCAGTAGGTGGCTACTT
 GATGTGGCGGAATTGGCAACACAAGAACATGAAAAGCATGAACTTTGACAATCCTGTGTACTTGAAGAAC
 ACTGAAGAGGACCTCTCCATAGACATTGGTAGACACAGTCTTCTGTTGGACACACGTACCCAGCAATAT
 CAGTTGTAAGCACAGATGATGATCTAGCT

ACGCGTACGCGGCGGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211796 representing NM_003383
 Red=Cloning site Green=Tags(s)

MGTSALWALWLLLALCWAPRESGATGTGRKAKCEPSQFQCTNGRCITLLWKCDGDEDCVDGSDEKNCVKK
 TCAESDFVCNNGQCVPSRWKCDGDPDCEDGSDSPEQCHMRTCRIHEISCGAHSTQCIPVSWRCDGENDC
 DSGEDEENCGNITCSPDEFTCSSGRICISRNFCVNGQDDCSDGSDLDCAPTCGAHEFQCSTSSCIPISW
 VCDDADDCSDQSDLESLEQCGRQPVIIHTKCPASEIQCGSGECIHKKWRCDGDPDCKDGSDEVNCPSTRCP
 DQFCECEDGSCIHGSRQCNGIRDCVDGSDDEVNCKNVNQCLGPGKFKCRSGECIDIISKVCNQEQDCRDWSD
 PLKECHINECLVNNGGCSHICKDLVIGYECDAAGFELIDRKTCDGIDECQNPGICSQICINLKGKYKCE
 CSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQ
 KAIFASIDDKVGRHVKMIDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGTGRKFLFNSDLREPAS
 IAVDPLSGFVYWSDWGEPAKIEKAGMNGFDRRPLVTADIQWPNGITLDL IKSRLYWLDSKLHMLSSVDLN
 GQDRRIVLKSLEFLAHLALTI FEDRVYWIDGENEAVYGANKFTGSELATLVNNDQAQDIIVYHEL VQP
 SGKNWCEEDMENGCEYLCLPAPQINDHSPKYTCSCPSGVNVEENGRDCQSTATTVTYSETKDTNTTEIS
 ATSGLVPGGINVTTAVSEVSVPPKGTSAAWAILPLLLL VMAAVGGYLMWRNWQHKNMKSMNFDNPVYLKT
 TEEDLSIDIGRHSASVGHYTPAISVVSTDDDLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3790_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

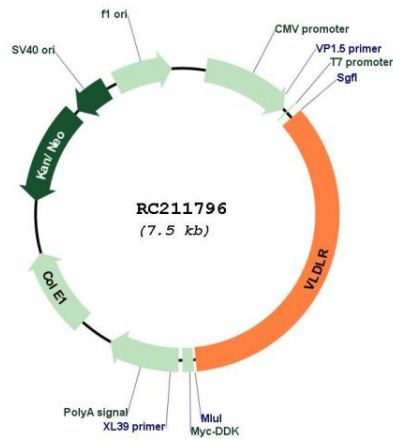


* The last codon before the Stop codon of the ORF

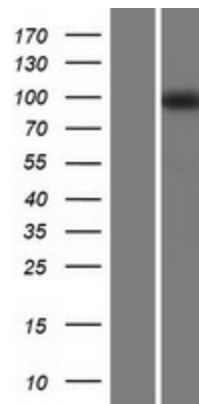
ACCN:	NM_003383
ORF Size:	2619 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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_003383.5
RefSeq Size:	3646 bp
RefSeq ORF:	2622 bp
Locus ID:	7436
UniProt ID:	P98155
Cytogenetics:	9p24.2
Domains:	Idl_recept_b, EGF_CA, Idl_recept_a, EGF
Protein Families:	Druggable Genome, Transmembrane
MW:	96.1 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 RC211796



Western blot validation of overexpression lysate (Cat# [LY401153]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211796 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).