

## Product datasheet for **MR231271**

### Ldlr (NM\_001252659) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ldlr (NM_001252659) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ldlr
Synonyms:	Hlb301
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR231271 representing NM\_001252659  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCACCGCGGATCTGATGCGTCGCTGGGTCATCGCCCTGCTCCTGGCTGCTGCCGGAGTTGCAGAAG  
 ACTCATGCAGCAGGAACGAGTTCAGTGTAGAGACGAAAATGCATCGCTAGCAAGTGGGTGCGATGG  
 CAGCCCCGAGTGCCCGGATGGCTCCGATGAGTCCCAGAGACATGCATGTCTGTACCTGTCAGTCCAAT  
 CAATTCAGCTGTGGAGGCCGTGTGAGCCGATGCATTCTGACTCCTGGAGATGTGATGGACAGGTAGACT  
 GTGAAAATGACTCAGACGAACAAGGCTGTCCCCCAAGACGTGCTCCAGGATGACTTCCGATGCCAGGA  
 TGGCAAGTGCATCTCCCGCAGTTTGTGTGTGATGGAGACCGAGATTGCCTAGATGGCTCTGATGAGGCC  
 CACTGCCAGGCCACCCTGTGGCCCCGCCACTTCCGCTGCAACTCATCCATATGCATCCCCAGTCTTT  
 GGGCTGCGACGGGATGTCGACTGTGTGACGGCTCCGATGAGTGGCCACAGAAGTCCAGGGCCGAGA  
 CACGGCTCCAAAGGCGTTAGCAGCCCCCTGCTCCTCCCTGGAGTCCACTGTGGTAGCAGTGTGATC  
 CATCGCAGCTGGTCTGTGACGGCGAGGACAGACTGCAAGGACAAGTGCAGATGAGGAGCACTGCGCGGTGG  
 CCACCTGCCGACCTGATGAATCCAGTGTGCAGATGGCTCCTGCATTACGGTAGCCGCCAGTGTGACCG  
 TGAACATGACTGCAAGGACATGAGCGACGAGCTCGGCTGCGTCAATGTGACACAGTGTGATGGCCCCAAC  
 AAGTTCAGTGTACAGTGGGAGTGCATCAGCTTGGACAAGGTGTGCGACTCCGCCCCGACTGCCAGG  
 ACTGGTCGGATGAGCCCCAAGGAGTGAAGACCAACGAGTGTGGACAACAATGGTGGCTGTCCCA  
 CATCTGCAAGGACCTCAAGATTGGCTCTGAGTGCCTGTGTCCAGCGCTTCCGGTTGGTGGACCTCCAC  
 AGGTGTGAAGATATTGACGAGTGTGAGGAGCCAGACACCTGCAGCCAGCTCTGTGTGAACCTGGAAGGCA  
 GCTACAAGTGTGAGTGCAGGCCGGCTTCCACATGGACCCACACAGGGTCTGCAAGGCTGTGGGCTC  
 CATAGGCTATCTGCTCTTACCACCCGACGAGGTCCGGAAGATGACCCTGGACCGCAGCGAGTACACC  
 AGTCTGCTCCCCAACCTGAAGAATGTGGTGGCTCTCGACACGGAGGTGACCAACAATAGAATCTACTGGT  
 CCGACCTGTCCCCAAAAAGATCTACAGCGCCCTGATGGACCAGGCCCTAACTTGTCTACGACACCAT  
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 CAGGGTCCAGACCAGAGCCATCGTAGTGGACCTGTGCATGGCTTCATGTACTGGACAGATTGGGGAAC  
 ACCCGCAAGATCAAGAAAGGGGTTTGAATGGTGTGGACATCCACTCACTGGTACCAGAAACATCCAG  
 TGCCAAATGGCATCACACTAGATCTTTCCAGTGGCCGTCTCTATTGGGTTGATCCAAACTCCACTCTA  
 TCTCCAGCATCGATGTCATGGGGCAATCGGAAAACCATTTTGGAGGATGAGAACCAGGCTGGCCACCC  
 TTCTCCTTGGCCATCTATGAGGACAAAGTGTATTGGACAGATGTCATAAACGAAGCCATTTTCAGTGCC  
 AATCGACTCACGGGTTAGATGTGAATTTGGTGGCTGAAAACCTCTTGTCCCCGGAGGACATTGTCTGT  
 TCCACAAGGTCACACAGCCTAGAGGGGTGAACTGGTGTGAGACAACAGCCCTCCTCCCCAATGGTGGTTG  
 CCAGTACCTGTGCTGCCCGCCCCACAGATCGGTCCCCACTCGCCCAATTCACCTGCGCCTGCCCTGAT  
 GGCATGCTGTGGCAAGGACATGCGGAGCTGCCTCACAGAAGTCGACACTGTACTGACCACCCAGGGGA  
 CATCCGCCGTCCGGCCTGTGGTACCGCATCAGCTACCAGGCCACCGAAGCACAGTGGAGTCTCTCAGC  
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 CAAGTCCAGGGTGCATGGCTGGCAGAGGGAATGAGGAGCAGCCACATGGTATGAGGTTCCCTGTCCATCT  
 TCTTCCCTATTGCACTGGTTGCCCTCCTTGTCTTGGGGCCGTCCTGCTGTGGAGAACTGGCGGCTGAA  
 GAACATCAACAGCATAAACTTTGACAACCCAGTCTACCAGAAGACCACAGAGGACGAGCTCCACATTTGC  
 CGAAGCCAGGATGGCTATACCTACCCCTCAAGACAGATGGTCAGCCTGGAGGACGATGTGGCA

**ACGCGT**ACGGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231271 representing NM\_001252659  
 Red=Cloning site Green=Tags(s)

MSTADLMRRWVIALLLAAGVAEDSCSRNEFQCRDGKCIASKWVCDGSPEC PDGSD ESPETCMSVTCQSN  
 QFSCGGRVSRICIPDSWRCDGQVDCENDSDEQGCPPKTC SQDDFRCDGKCI SPQFVCDGDRDCLDGSDEA  
 HCQATTCGPAHFRCNSSICIPSLWACDGDVDCVDGSDEWPQNCQGRDTASKGVSSPSSLEFHCGSSECI  
 HRSWVCDGEADCKDKSDEEHCAVATCRPDEFQCADGSCIHGSRQCDREHDCKDMSDELGCVNVTQCDGPN  
 KFKCHSGECISLDKVCDSARDCQDWSDEPIKECKTNECLDNNGGCSHICKDLKIGSECLCPSGFRLVDLH  
 RCEDIDECQEPDTC SQLCVNLEGSYKCECQAGFHMDPHTRVCKAVGSIGYLLFTNRHEVRKMTLDRSEYT  
 SLLPNLKNVVALDTEVTNNRIYWSL SQQKIYSALMDQAPNL SYDTIISED LHAPDGLAVDWIHRNIYWT  
 DSVPGSVSVADTKGVKRRTLFQEAGSRPRAIVDPVHGFMYWTDWGT PAKIKKGG LNVGDIHSLVTENIQ  
 WPNGITLDLSSGRLYWVDSKLHSISSIDVNGGNRKTILEDENRLAHPFSLAIYEDKVYWTDVINEAIFSA  
 NRLTGSVDNLVAENLLSPEDIVLFHKVTQPRGVNWCETTALLPNGGCQYLCLPAPQIGPHSPKFTCACPD  
 GMLLAKDMRSCLETVDTVLTQTSAVRPVVTASATRPPKHSEDL SAPSTPRQPVDTPGLSTVASVTVSH  
 QVQGD MAGRGNEEQPHGMRFLSIFFPIALVALLVLGAVLLWRNWR LKNINSINFDNPVYQKTT EDELHIC  
 RSQDGYTYP SRQMVSLEDDVA

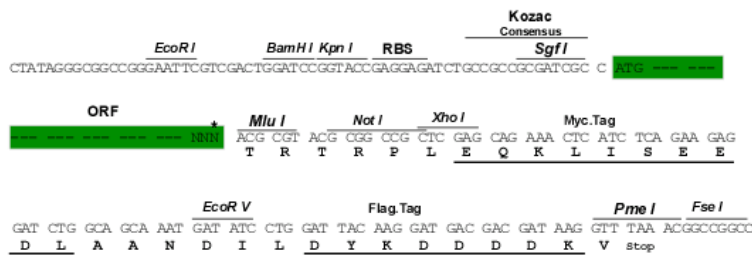
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/ja3240\\_a01.zip](https://cdn.origene.com/chromatograms/ja3240_a01.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

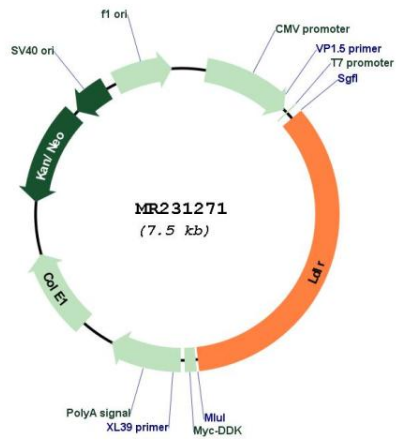
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_001252659
<b>ORF Size:</b>	2586 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001252659.1</a> , <a href="#">NP_001239588.1</a>
<b>RefSeq Size:</b>	4546 bp
<b>RefSeq ORF:</b>	2586 bp
<b>Locus ID:</b>	16835
<b>UniProt ID:</b>	<a href="#">P35951</a>
<b>Cytogenetics:</b>	9 7.87 cM
<b>MW:</b>	94.9 kDa
<b>Gene Summary:</b>	Binds LDL, the major cholesterol-carrying lipoprotein of plasma, and transports it into cells by endocytosis. In order to be internalized, the receptor-ligand complexes must first cluster into clathrin-coated pits.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231271