

## Product datasheet for MC207795

### Ldlrap1 (NM\_145554) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ldlrap1 (NM_145554) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ldlrap1
Synonyms:	AA691260; Arh; Arh1; ARH2; FHCB1; FHCB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207795 representing NM_145554 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGCGCTCAAGTCGGCGGGCGCGCTAATCCGGAGCCCCAGTCTGGCCAAGCAGAGCTGGGCGG  
GCGGCCGCCACCGCAAGTTGCCAGAGAACTGGACGGACACGCGGGAGACTGCTGGAGGGCATGGTTTT  
CAGCCTCAAGTACCTTGGTATGACGCTGGTGGAGCGGCCAAGGGCGAGGAGCTGTCTGCAGCTGCTGTC  
AAGAGGATCGTAGCTACAGCCAAGGCCAGCGGGAAGAAGCTGCAGAAGGTGACACTCAAGGTGTACCCCC  
GGGGGATCATCCTGACCGACAGCCTCACTAGCCAGCTCATCGAGAACGTGTCCATTTACAGGATCTCCTA  
CTGCACTGCAGACAAGATGCACGACAAGGTGTTTCGCTACATCGCCAGAGCCAGCAGAACGAGAGCCTC  
GAGTGCCACGCCTTCTCTGCACCAAGCGAAAGTGGCCCAAGCCGTACCCCTGACTGTAGCCCAAGCCT  
TCAAAGTTGCCTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAGAGAAAAGGGAGAAAGCCAACCGGA  
AGGAGGAGACGTCCCAGGGACCCGACGGGACAGCACCCCTCACTGAAAACCTTGGTCGCTACCGGGAAC  
CTGCTGGATTTGGAAGAGGTGGCTAAGGCCCGTTATCTACAGTCAGCGCTAATACCAACAACGTGGACG  
AGACACCACGGCCTCAGGTCTTGGGCAACAACAGCGTCGCTGGGAGCTGGATGACGGCCTGGACGAAGC  
ATTTTCAAGGCTGGCGCAGTCCCGGACAAACCTCAAGTCCTGGACACTGGACTGTCAGCACAGGACATC  
CATTATGCACAGTGCTTATCGCCACCGACTGGGACAAGCCTGACAGCAGTGGCATTGATCAAGATGATG  
ACGTCTTCACCTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_145554



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<b>Insert Size:</b>	927 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_145554.2</a> , <a href="#">NP_663529.2</a>
<b>RefSeq Size:</b>	2671 bp
<b>RefSeq ORF:</b>	927 bp
<b>Locus ID:</b>	100017
<b>UniProt ID:</b>	<a href="#">Q8C142</a>
<b>Cytogenetics:</b>	4 D3
<b>Gene Summary:</b>	<p>Adapter protein (clathrin-associated sorting protein (CLASP)) required for efficient endocytosis of the LDL receptor (LDLR) in polarized cells such as hepatocytes and lymphocytes, but not in non-polarized cells (fibroblasts). May be required for LDL binding and internalization but not for receptor clustering in coated pits. May facilitate the endocytosis of LDLR and LDLR-LDL complexes from coated pits by stabilizing the interaction between the receptor and the structural components of the pits. May also be involved in the internalization of other LDLR family members. Binds to phosphoinositides, which regulate clathrin bud assembly at the cell surface. Required for trafficking of LRP2 to the endocytic recycling compartment which is necessary for LRP2 proteolysis, releasing a tail fragment which translocates to the nucleus and mediates transcriptional repression (By similarity). [UniProtKB/Swiss-Prot Function]</p>