

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207795 representing NM_145554 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGACGCGCTCAAGTCGGCGGGCGCGCCTAATCCGGAGCCCCAGTCTGGCCAAGCAGAGCTGGGCGG
GCGGCCCGCACCGCAAGTTGCCAGAGAAGTGGACGGACACGCGGGAGACTGCTGGAGGGCATGGTTTT
CAGCCTCAAGTACCTTGGTATGACGCTGGTGGAGCGGCCAAGGGCGAGGAGCTGTCTGCAGCTGTGTC
AAGAGGATCGTAGCTACAGCCAAGGCCAGCGGGAAGAAGCTGCAGAAGGTGACACTCAAGGTGTACCC
GGGGATCATCTGACCGACAGCCTCACTAGCCAGCTCATCGAGAACGTGTCCATTTACAGGATCTCCTA
CTGCACTGCAGACAAGATGCACGACAAGGTGTTTCGCTACATCGCCAGAGCCAGCAGAACGAGAGCCTC
GAGTGCCACGCCTTCTCTGCACCAAGCGGAAAGTGGCCCAAGCCGTACCCTGACTGTAGCCCAAGCCT
TCAAAGTTGCCTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAAGGAGAAAAGGCAACCCAGGA
AGGAGGAGACGTCCAGGGACCCGACGGGACAGCACCCCTCACTGAAAACCTTGGTCGCTACCGGGAAC
CTGCTGGATTTGGAAGAGGTGGCTAAGGCCCGTTATCTACAGTCAGCGTAATACCAACAACGTGGACG
AGACACCAGGCCTCAGGTCTTGGCAACAACAGCGTCGTCTGGAGCTGGATGACGGCCTGGACGAAGC
ATTTTCAAGGCTGGCGCAGTCCCGGACAAACCCTCAAGTCTGGACTGTCAGCACAGGACATC
CATTATGCACAGTGCTTATCGCCACCGACTGGGACAAGCCTGACAGCAGTGGCATTGATCAAGATGATG
ACGTCTTCACCTT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_145554
Insert Size:	927 bp



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OTI Disclaimer:	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).
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_145554.2 , NP_663529.2
RefSeq Size:	2671 bp
RefSeq ORF:	927 bp
Locus ID:	100017
UniProt ID:	Q8C142
Cytogenetics:	4 D3
Gene Summary:	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]