

Product datasheet for MR203503

Ldlrap1 (NM_145554) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldlrap1 (NM_145554) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ldlrap1
Synonyms:	AA691260; Arh; Arh1; ARH2; FHCB1; FHCB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203503 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTTCAGCCTCAAGTATCTTGGTATGACGCTGGTGGAGCGGCCAAGGGCGAGGAGCTGTCTGCAG
CTGCTGTCAAGAGGATCGTAGCTACAGCCAAGGCCAGCGGAAGAAGCTGCAGAAGGTGACACTCAAGGT
GTCACCCCGGGGATCATCCTGACCGACAGCCTCACTAGCCAGCTCATCGAGAACGTGTCCATTTACAGG
ATCTCCTACTGCACTGCAGACAAGATGCACGACAAGGTGTTGCTTACATCGCCAGAGCCAGCAGAACG
AGAGCCTCGAGTGCCACGCCTTCTCTGCACCAAGCGAAAGTGGCCCAAGCCGTCACCCGACTGTAGC
CCAAGCCTTCAAAGTTGCCTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAGAGAAAAGGGAGAAAGCC
AACCAGGAAGGAGGAGACGTCCCAGGGACCCGACGGGACAGCACCCCTCACTGAAAACCTTGGTCGCTA
CCGGGAACCTGTGGATTTGGAAGAGGTGGCTAAGGCCCGTTATCTACAGTCAGTGCTAATACCAACAA
CGTGGACGAGACACCACGGCCTCAGGTCTTGGCAACAACAGCGTCGTCTGGGAGCTGGATGACGGCCTG
GACGAAGCATTTC AAGGCTGGCGCAGTCCCGGACAAACCCTCAAGTCTGGACTGACTGTCAGCAC
AGGACATCCATTATGCACAGTGCTTATCGCCACCGACTGGGACAAGCCTGACAGCAGTGGCATTGATCA
AGATGATGATGTCTTCACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203503 protein sequence
Red=Cloning site Green=Tags(s)

MVFLSKYLGMTLVERPKGEELSAAVKRIVATAKASGKKLQKVTLKVSPRGIILTDSLTSQLIENVSIYR
 ISYCTADKMHDKVFAYIAQSQQNESLECHAFLCTKRKVAQAVTLTVAQAFKVAFEFWQVSKEEKEKREKA
 NQEGGDVPGTRRDSTPSLKTLLVATGNLLDLEEVAKAPLSTVSANTNNVDETPRPQVLGNNSVWELDDGL
 DEAFSRLAQSRTPQVLDTGLSAQDIHYAQCLSPTDWDKPDSSGIDQDDDVFTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145554

ORF Size: 795 bp

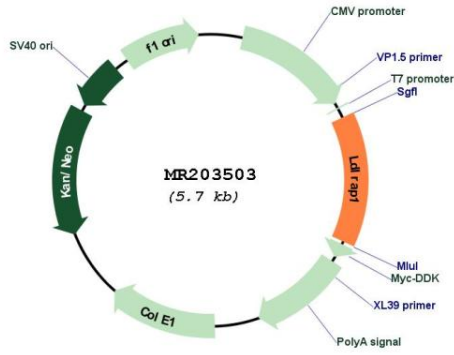
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_145554.1 , NP_663529.1
RefSeq Size:	2671 bp
RefSeq ORF:	927 bp
Locus ID:	100017
UniProt ID:	Q8C142
Cytogenetics:	4 D3
MW:	29.1 kDa
Gene Summary:	<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>

Product images:



Circular map for MR203503