

Product datasheet for **MG203503**

Ldlrap1 (NM_145554) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ldlrap1 (NM_145554) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ldlrap1
Synonyms: AA691260; Arh; Arh1; ARH2; FHCB1; FHCB2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203503 representing NM_145554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTTTCAGCCTCAAGTATCTTGGTATGACGCTGGTGGAGCGGCCAAGGGCGAGGAGCTGTCTGCAG
 CTGCTGTCAAGAGGATCGTAGCTACAGCCAAGGCCAGCGGAAGAAGCTGCAGAAGGTGACACTCAAGGT
 GTCACCCCGGGGATCATCCTGACCGACAGCCTCACTAGCCAGCTCATCGAGAACGTGTCCATTTACAGG
 ATCTCCTACTGCACTGCAGACAAGATGCACGACAAGGTGTTGCTACATCGCCAGAGCCAGCAGAACG
 AGAGCCTCGAGTGCCACGCCTTCTCTGCACCAAGCGGAAAGTGGCCCAAGCCGTCACCCGACTGTAGC
 CCAAGCCTTCAAAGTTGCCTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAGAGAAAAGGGAGAAAGCC
 AACCAGGAAGGAGGAGACGTCCCAGGGACCCGACGGGACAGCACCCCTCACTGAAAACCTTGGTCGCTA
 CCGGGAACCTGTGGATTTGGAAGAGGTGGCTAAGGCCCGTTATCTACAGTCAGTGCTAATACCAACAA
 CGTGGACGAGACACCACGGCCTCAGGTCTTGGCAACAACAGCGTCGTCTGGGAGCTGGATGACGGCCTG
 GACGAAGCATTTTCAAGGCTGGCGCAGTCCCGGACAAACCCTCAAGTCTGGACTGGACTGTCAGCAC
 AGGACATCCATTATGCACAGTGCTTATCGCCACCGACTGGGACAAGCCTGACAGCAGTGGCATTGATCA
 AGATGATGATGTCTTACCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203503 representing NM_145554
 Red=Cloning site Green=Tags(s)

MVFLSKYLGMTLVERPKGEELSAAVKRIVATAKASGKKLQKVTLVKVSPIIILTDSLTSQLIENVSIYR
 ISYCTADKMHDKVFAYIAQSQQNESLECHAFLECTKRKVAQAVTLTVAQAFKVAFEFWQVSKEEKEKREKA
 NQEGGDVPGTRRDSTPSLKTLLVATGNLLDLEEVAKAPLSTVSANTNNVDETPRPQVLGNNSVWVWELDDGL
 DEAFSRLAQSRTPQVLDTGLSAQDIHYAQCLSPDWDKPDSSGIDQDDDVFTF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145554

ORF Size: 792 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:

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: 2669 bp

RefSeq ORF: 927 bp

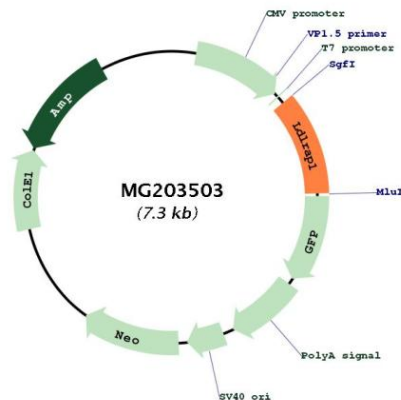
Locus ID: 100017

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]

Product images:



Circular map for MG203503