

## Product datasheet for **MR210216**

### Lrp10 (NM\_022993) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrp10 (NM_022993) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrp10
Synonyms:	Lrp9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210216 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTATCGGCCCTCCCTCTTCTTTCTCTCTCGGAGGTGCTCTGGCCCGCCAGACGGATCACTT  
 TCCCACGTTCTGCTTGTGAGGCGCCCCAGCAGTGCTCTCAGAAGTACAAGGCACTTTACAGAGGCCTCT  
 AGGCCGGGACAGCCGAAGCTCCCCTGCCAACTGCACCTGGGTTATCCTGGGCAGCAAGGATCAGACAGTA  
 ACTGTCAGGTTCCAGAAGCTGCATCTGGCCTGTGGCTCAGAGCATTTAATCCTGCACTCCCCTCTACAGC  
 CACCAATCTCCCTGTGTGAGGCCCTTCTGGCCCTTTCAGCTACCAGGGGGCAATGTCACCATTACATA  
 CAGCTATGCTGGGGCCAGAGCACCCATGGGCCAGGGCTTCTTGCTGACTTACAGTCAAGATTGGCTACTG  
 TGCCTGCAAGAAGAATTCAGTGCCTGAACCACCGCTGCATTCCAGCTGCTCAGCGCTGTGATGGGATTG  
 ATGCCTGCGGGGATGGCTCAGACGAGGCAGGCTGCAGCTCAGATCCATCCCTAACCTGAACCCAGCCCC  
 CGCACCAACTCTGGCCTGCAATCTCACCTTGGAGGACTTTTATGGGGTCTTTTCTCCCCCTGGATATTCA  
 CACTGGCCTCAGTCTCCACCCCCAGTCTGCCTGTGGCTGCTGGACCCCATGATGGCCGGAGGCTGG  
 CAGTGGCCTTACAGCCCTGGACTTGAGTTACGGAGATGCAGTGCATGTGTATGATGGTGCCTGGACCCC  
 CGAGACCCCTCGACTGCTACGTAGCCTCACCCACTTCAGCAATGGCAAGGCTGCTACTGTGGAGACCCTG  
 TCTGGTCAAGGCTGTTGTGCTCCTACCACACAGTTGCTTGGAGCAGTGGCCGGGGCTTTAATGCTACCTACC  
 ATGTCCGGGGCTACTGTTACCTTGGGACAGACCTGTGGCTTGGGCTCTGGCCTGGGGGCTAGTGAGAA  
 CCTAGGTGAGCGTTGCTATAGCGAGGCACAGCGCTGTGATGGCTCATGGGACTGTCCGATGGCACAGAT  
 GAGGAGGGTTGCCCTGGCTGCCACCAGGGCAGTCCCTGTGGAGCTGCAGGCACCCCTGGTGCCACAG  
 CCTGCTACCTGCCTGCTGACCGTGAACCTACCAGACTTCTGCGCCGATGGAGCGGATGAGAGGCGCTG  
 CCGGCATTGCCAGCCCGCAACTTCCGGTGCCGGGATGAGAAGTGTGTGTATGAGACATGGGTGTGTGAT  
 GGGCAGCCAGACTGTACTGACGGCAGTGTGAGTGGGACTGCTCCTACGCCCTGCCCCGAAAAGTCATCA  
 CAGCAGCAGTCATTGGCAGCCTGGTGTGTGGCCTGTTGCTGGTCACTCGCTCTCGGCTGCACCTGCAAACT  
 CTATGCCATCCGCACCCAGGAATACAGCATCTTTGCCCGCTCTCCCGGATGGAGGCTGAGATTGTGCAG  
 CAACAGGCACCCCTTCCATGGGCAGCTCATTGCCAGGGTCCATCCCACCTGTGGAAGACTTCCCCA  
 CAGAGAACCCTAACGATAACTCTGTGCTGGGAAACCTACGTTCTCTGCTTACAGTCTTACGCCAGGATAT  
 GACTCCAGGTGGTACTTCAGGGGGCCCGCTGCCAGCGTGGACGCTCCGTCCGCGTCTGGTTCGCGGT  
 CTCGCTGTTGGGGCCTGCTTCTCGAACTAATACCCAGCTCGGGCCCCTGAGACCAGATCCCAGGTCA  
 CACCCTCTGTTCCCTCTGAGGCCCTGGATGACAGCACAGGCCAAGCCTGTGAGGGTGGGGCAGTAGGGGG  
 GCAAGATGGGGAGCAGGCTCCTCCACTGCCATCAAGACCCCATCCCAACCCCAAGCACACTTCTGCC  
 CTGGTACTGTCTCTGAGCCCCAGGGCCACTACCCTCAGTGCCTGTAGAATCATCACTGTTGTCTGGAG  
 TTGTCCAGGTCTACGAGGCCGCTCCTACCCAGCCTGTGGTCCCAGGCCCCACTTGGACCCAAACTGG  
 AACTCACACAACAGTCTGTCCCCAGAGGATGAGGACGATGTATTGTTATTGCCACTGGCTGAGCCAGAA  
 GTCTGGGTGGTGGAGGCAGAGGATGAACCATTGCTTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210216 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSALPLLFLLLGGALARPDRITFPRSACEAPPAVLSEVQGTLQRPLGRDSRSPANCTWVILGSKDQTV  
 TVRFQKLHLACGSEHLILHSPLQPPISLCEAPSGPLQLPGGNVTITYSYAGARAPMGQFLLTYSQDWLL  
 CLQEEFQCLNHRICIPAAQRCDGIDACGDGSDGACSSDPFNLNPAPAPTLACNLTLEDFYGVFSSPGYS  
 HLASVSHPQSCLWLLDPHDGRRLLAVRFTALDLSYGDVHVHYDYGAGPPETPRLLRSLTHFSNGKAVTVETL  
 SGQAVVSYHTVAWSSGRGFNATYHVRGYCLPWDRPCGLGSGLGASENLGERCYSEAQRCDSWDCADGTD  
 EEGCPGCPPGHFPCGAAGTPGATACYLPADRCNYQTFCADGADERRCRHCQPGNFRCRDEKCVYETWVCD  
 GQPDCTDGSDEWDCSYALPRKVIITAAVIGSLVCGLLLVIALGCTCKLYAIRTQEYSIFAPLSRMEAEIVQ  
 QQAPPSYQLIAQGAIPPVEDFPTENPNDNSVLGNLRSLLQILRQDMTPGGTSGGRRRQRGRSVRRLVRR  
 LRRWGLLPRNTNPARAPETRSQVTPSPVSEALDDSTGQACEGGAVGGQDGEQAPPLPIKTIPTPSTLPA  
 LATVSEPPGPLSPVPESSLLSGVVQVLRGRLPSLWSPGPTWTQTGHTTVLSPEDDDVLLLPLAEPE  
 VVVVEAEDEPLLA

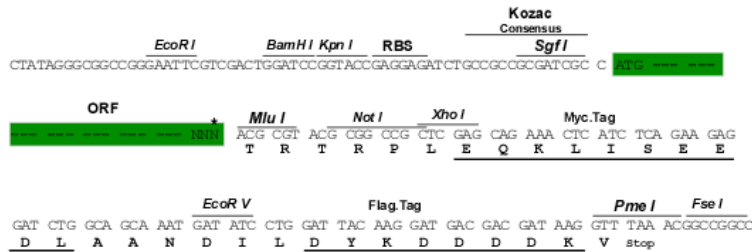
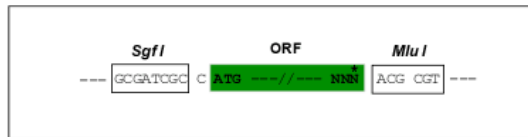
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

ACCN: NM\_022993

ORF Size: 2142 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_022993.1](#), [NM\\_022993.2](#), [NM\\_022993.3](#), [NP\\_075369.2](#)

**RefSeq Size:** 3013 bp

**RefSeq ORF:** 2142 bp

**Locus ID:** 65107

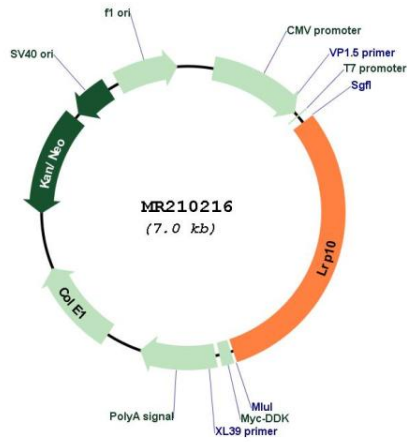
**UniProt ID:** [Q7TQH7](#)

**Cytogenetics:** 14 C2

**MW:** 76.4 kDa

**Gene Summary:** Probable receptor, which is involved in the internalization of lipophilic molecules and/or signal transduction. May be involved in the uptake of lipoprotein APOE in liver.  
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210216