

Product datasheet for **MG222498**

Lrp_{prc} (NM_028233) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrp _{prc} (NM_028233) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrp _{prc}
Synonyms:	3110001K13Rik; C76645; Gp130; Lrp130; Lsfc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222498 representing NM_028233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCCCTGCTGAGACCCGCGGTTGGCTGCTCGGGGCCGCGGGCCCGCGCCTCCCGCTGTCCC
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GGAGAACAGGCCGCATCACAAGGGGCTTCTGCAGAGAGTCTTTGAGAGCACGTGTAGCTCAGGTAGCCC
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CGAGCTGCTTTGCAGGAAAATGAATGTCTCCTCGCAAGTAGTACCTTTGCTCAAGCTGAAGTGAAGAATG
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TGCATTTTATATAAAGCAACTAAAGGAAGCAAGGAAAGCCCTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222498 representing NM_028233
 Red=Cloning site Green=Tags(s)

MAALLRPARWLLGAAAAPRLPLSLRLPAGVPGRLSSVVRVAAVGSRPAAGERLSQARLYAIVAERDLQE
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 QEENIIPRETRLLAEILKTSNQEVFPDVPPELWFGDDRPSLSPSSRSAGEDVTEKTLNCKLKKSKDA
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 GALATLRAALDLKQVPSQIAVTRLIQALALKGDVESIEAIQRMVAGLDTIGLSKMFVFINNIALAQMKNNK
 LDAAIENIEHLLASENQAIQYFGLSYLFRKVIIEEQMEPALEKLSIMSERMANQFALYKPVTDLFLQLV
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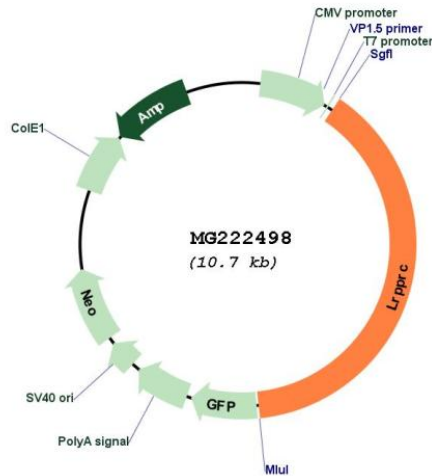
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_028233

ORF Size: 4176 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_028233.2](#), [NP_082509.2](#)

RefSeq Size: 4638 bp

RefSeq ORF: 4179 bp

Locus ID: 72416

UniProt ID: [Q6PB66](#)

Cytogenetics: 17 E4

Gene Summary: May play a role in RNA metabolism in both nuclei and mitochondria. In the nucleus binds to HNRPA1-associated poly(A) mRNAs and is part of nmRNP complexes at late stages of mRNA maturation which are possibly associated with nuclear mRNA export. May bind mature mRNA in the nucleus outer membrane. In mitochondria binds to poly(A) mRNA. Plays a role in translation or stability of mitochondrially encoded cytochrome c oxidase (COX) subunits. May be involved in transcription regulation. Cooperates with PPARGC1A to regulate certain mitochondrially encoded genes and gluconeogenic genes and may regulate docking of PPARGC1A to transcription factors. Seems to be involved in the transcription regulation of the multidrug-related genes MDR1 and MVP. Part of a nuclear factor that binds to the invMED1 element of MDR1 and MVP gene promoters (By similarity). Binds single-stranded DNA. [UniProtKB/Swiss-Prot Function]