

Product datasheet for RN211373

Lrp157 (NM_001008519) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lrp157 (NM_001008519) Rat Untagged Clone
Tag: Tag Free
Symbol: Lrp157
Synonyms: Lrp157
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN211373 representing NM_001008519
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGCCCTGCTGAGACCCGCGGTTGGCTGCTAGGGGAGCGGGTCCCGCCTCCCGCTGTCCC
TGCCTCCCTGCGGGCGCCCGGCAGGCTGCCCTCTGTCGTCGGGTGGCGCCGCTGGTGGCCGGCC
GGCTGCAGGAGAGCTGCTGAGCCAAGCCAGGTTGTATGCCATCGTCGCTGAAAAAAGGATCTCCAGAG
GAGCCTGCTCCTGTGAGAAGGAGTGGCAGTCAGTTTATTGGCCCTAATGAGACTGGATAATTCTGTCC
GGAGAACGGGCGCATTACCAAGGGGCTTCTGCAGAAAAGTCTTTGAGAGCACGTGCCGCTCAGGGAGCCC
AGGGAGTAACAGGCCTTCTTCTGCTGCGCAGCTGCGGCTCGCTCCTGCCCGAAGTGGTCTTGCAGAG
AGGACAGAATTTGCTCATAAGATATGGGACAACTTCAGCAGTTAGGCACTGTGTACGATGTGAGTCATT
ATAATGCTTTACTTAAAGTATATCTTCAAAATGAATACCGATTCTCACCTACTGACTTCTGGCAAAGAT
GGAGGGAGCAAACATTCAACCGAACCGAGTGACATACCAGAGGCTGATCGCTGCCTATTGTAGTGTGGG
GACATTGAAGGCGCCAGCAAGATCCTTGGATTTATGAAAACGAGGGACCTCCAATCACAGAGGCTGTGT
TCAGTGGCTCGTCACAGGGCACGCCAGAGCTGGGGATATGGAGAGTGCAGAGAATATTCACAGTGAT
GAAACAGGCTGGCATTGAGCCTGGGCCAGACAGTATCTGGCCTTGTGAAACGCACATGCTGAGAAGGGT
GACATTGACCATGTTAAGCAGATTCTGGAGAAAAGTGAAAAATCGGATCATTACTTTATGGACCGTGATT
TCTTGCAAATTTAGTTAGCTTTAGTAAAGCTGGATATCCTCAGTATGTCTCAGAAAATTTGGAGAAGAT
TACCTATGAGAGAAGATCTATCCAGATGCAATGAACCTCATTGCTTTTAGTCACTGAGAAGTTAGAA
GACACGGCGTTCAGGTTTTACTGGCATTACCCCTGGCCAGGGATGAGACCTCAAGTAGTTTTGGCAGTT
TCTTTTTGCGGCACTGTGTGACTATGGATACGCTGCTGAGAAGCTGATAGACTACTGTAAGAGACTGAG
GGACGCCAAGGTGCACAGCTCTTCACTGCAGTTACCCCTGCACTGTGCTCTTCAAGCCAATAAGACTGCT
TTGGCAAAGCAGTGATGGAGGCTCTGAGGGATGAAGGGTTTCTATCCGAAGTCACTATTTCTGGCCGT
TGCTTGTGGACATCAGAAAACAAAAATGTTCAAGGAATAATAGATATTCTTAAAAATCATGAAGGAAAT
GGGAGTGGATCCCGATCAGGAAACATACATAAATTATGTGTTCCCTGCTTCGGTAGTGTGACAGTCGGCT
CGAGCTGCTCTGCAGGAAAATAATGTCTGCCTAAAAGTACTACATTCGCTCAAGCCGAAAGTGAGAAATG



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AAGCAATAAATGGGAATTTACAGAACATTTTGTCAATTTTGAATCGAATGCATTGCCTTCTCGTTTAA
 TTCTTTGAGAGGCAGCCTAATTCTAGGCTTTAGGAGGTCGATGAATATAGATCTTTGGAGCAAGATAACA
 GAATTGCTGTACAAGGATGACCGTTATTGCCAAAAACCTCCAGGACCAACGGAAGCTGTTGGCTATTTTC
 TTTATACTTGATTGACAGCATGAGTGAAGTCTGAAAACATCTACAAGGCATTGTAAATTTGCTGGAT
 AACTACCATGTTCTGAATTGATTAAGGATGTTAAGGTTCTGGTTGACAGAGAGAAGATAGATTCTCGAA
 AAACCTCCCAGTTTACCTCATCTGATTTGGAGTCAACCTTGAGAAGCTTAAAGCTGAAGCCATCCTGT
 AGGAGACCCCTGAAGCAGCTCATCTTGCTGCTGTTCTGAGGAGAATATGCAAAAGGCCCTTGAAGTG
 AAAGCAAAATACGAGTCAGACATGGTTATTGGAGGCTATGCAGCTTAAATAAATTTGTGCTGCGACATG
 ATAATGCAGAAGATGCACTGAACTTGAACAAGAATTTGACCGCTTAGATCCTTCAGCTGTTCTTGACAC
 TGCCAAGTATGTAGCCCTGGTAAAAGTATTGGGAAAGCATGGCAGAGTGAAGATGCTATTAACATTCTA
 AAGGAGATGAAAGAGAAGGATGTTGTTATCAAAGATGCAGCAGTCTTGCCTTCTCCACATCCTGAATG
 GTGCAGCTTAAAGAGGTGAAATGAGACAGTAAAACAGTGCATGAAGCCATCGTACTCTTGGGTGGC
 AAAGCCATCCAGCAACATAAGCTTCCCATTGGTCACTGTGCACCTGAAAAGGATGATTTACCTGCTGCT
 CTTGAAGCCAGCATTGCCTGCCATGAAAAATATAAAGTATTACCCAGGATTCATGATGTCTTATGTAAGC
 TAATAGAAAAAGGCGAGACTGACTTAATCCAGAAAGCGATGGACTTTGTAGCAAGAGCAGGGCGAGAT
 GTCGATGCTCTACGACCTCTTCTTGTCTTCTGCAGACGGGAAACTACAAGAGCCAAAGAAGATTATT
 GAGACTCCAGGCATTAGAGCTCGGCCTACACGACTTCAGTGGTTTTGTGATAGATGCATTGCCAATAATC
 AGGTTGAAACTCTTGAGAAGTTAGTGGAGCTGACCGAGAAGCTGTTTGAATGTGACAGAGACCAGATGTA
 CTAACACTTACTGAACTATACAAAATAAGCGGTGACTGGCAAAGAGCGGATGCTGTCTGGAATAAAATG
 CAAGAAGAGAATCTTATCCCTCGAGAACGGACTGCGACTGTTAGCTGGGATCCTGAAAACCAGCAACC
 AGGAGGTTCTTTTACGTTTCTGAGTTGGTTGGTTGGAGATGACAGGCTTCCCTGAGTTCATCCTCACC
 CTCAGCAGGACACCGTGAAGTGAAGATGTTGTTGTCTGACTGCAGACTGAAGAAGAGTAAGGATGCA
 TATAATATCTTCTCAAAGCCGAAAAGCAAGATGTCGTCTTCAAGCAGTGAAGCTTACAGCACCTGGTTG
 GCTTGTGCTGAGCAAAGATGACTTACACAGGATGCATGTGAAAGATTTGCTGAGACCCACATCAA
 GGGCTTACACTGAACGGTGTGCCAGCAGCCTCCTCATCATCGCGCAAGTTAGGCGGGATTATTTGAAA
 GTGGCTTAGAAACTCTGAAGGCAGCCTTGATCTGGAACAGGTGCCTTCTGAGCTGGCCGTGACCCGCC
 TTATCCAGGCACTGGCCTTGCAGGGTGTGTAAGCATAGAGACCATTGAAAGATGGTGAAGGGCT
 NGACGCGATTGAGCTCTCAAGAATGGTCTTCAACAACATTGCTCTGGCCAGATGAAGAATAATGAA
 ATTGATGCTGCCATAGAAAATATCGAGCAGATGCTTGCCTCAGAGAATCAGACCGTGAACACCAGTACT
 TTGGCTTGTCTGACTTATTCAGGAAAGTATAGAGGAGCAGATGGAGCCAGCGCTCGAAAAGTTAAGCAT
 CATGCTGAGAGGTTGGCCAATCAGTTTGCATTTACAAACCCGCACTGATCTTCTTCTCAGCTTGTG
 GATTACAGGCAAGGTGGATGAGGCCAGAGCCCTCTTGGAGAGATGCGGCGCCATTGCCGAGCAGACCTCAA
 TTCTGTGGTGTCTGTCTCAGGACGTCTCAGAAACAAAAAGGCCCGGTTCTGAAGACCTTGTGTA
 GCTGATTTCCGAGTTACGTGAGAATGACAGAGTGTACTCTGCAGCATGAAAAGCTATGTGCGAGACAAA
 GACGTGGCCTCCGCTAAAGCGCTGTATGAGCATTTGACAGCAAAGAACATGAAGCTGGACGACCTTTTT
 TGAAGCGCTACGCATCTTTGCTCAAGGATGTGGGCGAGCCGGTCCCCTTCACTGAGCCCCCTGAAAGCTT
 TGGATTTACATAAAGCAACTAAAGGAAGCGAGAGAAAACCCCTCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001008519

Insert Size:

4179 bp

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:	<u>NM_001008519.1</u> , <u>NP_001008519.1</u>
RefSeq Size:	4336 bp
RefSeq ORF:	4179 bp
Locus ID:	313867
UniProt ID:	<u>Q5SGE0</u>
Cytogenetics:	6q12
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. Binds single-stranded DNA (By similarity). [UniProtKB/Swiss-Prot Function]