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Product datasheet for SC303181

LRP1 (NM_002332) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP1 (NM_002332) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRP1
Synonyms:	A2MR; APOER; APR; CD91; IGFBP-3R; IGFBP3R; IGFBP3R1; KPA; LRP; LRP1A; TGFBR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_002332 edited
ATGCTGACCCCGCCGTTGCTCCTGCTGCTGCCCCTGCTCTCAGCTCTGGTCGCGGCGGCT
ATCGACGCCCCTAAGACTTGCAGCCCCAAGCAGTTTGCCTGCAGAGATCAAATAACCTGT
ATCTCAAAGGGCTGGCGGTGCGACGGTGAGAGGGACTGCCCAGACGGATCTGACGAGGCC
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GACCCCTTGGCATAG

Restriction Sites: Please inquire

ACCN: NM_002332

Insert Size: 15000 bp

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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 or by calling 301.340.3188 option 3 for pricing and delivery. 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).
OTI Annotation:	The full-length of this clone was sequenced and its ORF matches with NM_002332.1. A few SNPs were observed in the ORF.
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_002332.1, NP_002323.1
RefSeq Size:	14896 bp
RefSeq ORF:	13635 bp
Locus ID:	4035
UniProt ID:	Q07954
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease

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Gene Summary: This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients. [provided by RefSeq, Oct 2015]

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