OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC322407

LIMPII (SCARB2) (NM_005506) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIMPII (SCARB2) (NM_005506) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIMPII
Synonyms:	AMRF; CD36L2; EPM4; HLGP85; LGP85; LIMP-2; LIMPII; SR-BII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene sequence for NM_005506 edited
CGGCCCGTGAGCGGCGCACAGAATGGGCCGATGCTGCTTCTACACGGCGGGGACGTTGTC
CCTGCTCCTGCTGGTGACCAGCGTCACGCTGCTGGTGGCCCGGGTCTTCCAGAAGGCTGT
AGACCAGAGTATCGAGAAGAAAATTGTGTTAAGGAATGGTACTGAGGCATTTGACTCCTG
GGAGAAGCCCCCTCTGCCTGTGTATACTCAGTTCTATTTCTTCAATGTCACCAATCCAGA
GGAGATCCTCAGAGGGGAGACCCCTCGGGTGGAAGAAGTGGGGCCATACACCTACAGGGA
ACTCAGAAACAAAGCAAATATTCAATTTGGAGATAATGGAACAACAATATCTGCTGTTAG
CAACAAGGCCTATGTTTTTGAACGAGACCAATCTGTTGGAGACCCTAAAATTGACTTAAT
TAGAACATTAAATATTCCTGTATTGACTGTCATAGAGTGGTCCCAGGTGCACTTCCTCAG
GGAGATCATCGAGGCCATGTTGAAAGCCTATCAGCAGAAGCTCTTTGTGACTCACACAGT
TGACGAATTGCTCTGGGGCTACAAAGATGAAATCTTGTCCCTTATCCATGTTTTCAGGCC
CGATATCTCTCCCTATTTTGGCCTATTCTATGAGAAAAATGGGACTAATGATGGAGACTA
TGTTTTTCTAACTGGAGAAGACAGTTACCTTAACTTTACAAAAATTGTGGAATGGAATGG
GAAAACGTCACTTGACTGGTGGATAACAGACAAGTGCAATATGATTAATGGAACAGATGG
AGATTCTTTTCACCCACTAATAACCAAAGATGAGGTCCTTTATGTCTTCCCATCTGACTT
TTGCAGGTCAGTGTATATTACTTTCAGTGACTATGAGAGTGTACAGGGACTGCCTGCCTT
TCGGTATAAAGTTCCTGCAGAAATATTAGCCAATACGTCAGACAATGCCGGCTTCTGTAT
ACCTGAGGGAAACTGCCTGGGCTCAGGAGTTCTGAATGTCAGCATCTGCAAGAATGGTGC
ACCCATCATTATGTCTTTCCCACACTTTTACCAAGCAGATGAGAGGTTTGTTTCTGCCAT
AGAAGGCATGCACCCAAATCAGGAAGACCATGAGACATTTGTGGACATTAATCCTTTGAC
TGGAATAATCCTAAAAGCAGCCAAGAGGTTCCAAATCAACATTTATGTCAAAAAATTAGA
TGACTTTGTTGAAACGGGAGACATTAGAACCATGGTTTTCCCAGTGATGTACCTCAATGA
GAGTGTTCACATTGATAAAGAGACGGCGAGTCGACTGAAGTCTATGATTAACACTACTTT
GATCATCACCAACATACCCTACATCATCATGGCGCTGGGTGTGTTCTTTGGTTTGGTTTT
TACCTGGCTTGCATGCAAAGGACAGGGATCCATGGATGAGGGAACAGCGGATGAAAGAGC
ACCCCTCATTCGAACCTAAACATTGCCTTTGCTTGGTGAAGAAACTGTGTGAGCTGTCCT
GACCTGGACGATGACGTGGGGAAACCCTCCACCTCCTTGCAGGCTTGTTGCCTGTTGAAA
GAAGGAAAAAGACACGGCGCTGGCAAGTGATAGGAACATTCTGGCCAGAGGTTAAAGAGC
AGGCTGACATGGCTGGCCATTAAGCTTTATAAAATCATGTGGGCTCTGAAATTGTTCTTT
TATGTGTCTAGCAAGTATTTAATAAACCCTTGTATAGTAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_005506

Insert Size: 1700 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).

OTI Annotation: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_005506.2.

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_005506.2, NP_005497.1
RefSeq Size:	4748 bp
RefSeq ORF:	1437 bp
Locus ID:	950
UniProt ID:	Q14108
Cytogenetics:	4q21.1
Domains:	CD36
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome
Gene Summary:	The protein encoded by this gene is a type III glycoprotein that is located primarily in limiting membranes of lysosomes and endosomes. Earlier studies in mice and rat suggested that this protein may participate in membrane transportation and the reorganization of endosomal/lysosomal compartment. The protein deficiency in mice was reported to impair cell membrane transport processes and cause pelvic junction obstruction, deafness, and peripheral neuropathy. Further studies in human showed that this protein is a ubiquitously expressed protein and that it is involved in the pathogenesis of HFMD (hand, foot, and mouth disease) caused by enterovirus-71 and possibly by coxsackievirus A16. Mutations in this gene caused an autosomal recessive progressive myoclonic epilepsy-4 (EPM4), also known as action myoclonus-renal failure syndrome (AMRF). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.