

Product datasheet for **RC202162**

LIMPII (SCARB2) (NM_005506) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIMPII (SCARB2) (NM_005506) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LIMPII
Synonyms:	AMRF; CD36L2; EPM4; HLGP85; LGP85; LIMP-2; LIMPII; SR-BII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202162 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCCGATGCTGCTTCTACACGGCGGGGACGTTGTCCCTGCTCCTGCTGGTGACCAGCGTCACGCTGC
 TGGTGGCCCGGGTCTCCAGAAGGCTGTAGACCAGAGTATCGAGAAGAAAATTGTGTTAAGGAATGGTAC
 TGAGGCATTTGACTCCTGGGAGAAGCCCCCTCGCCTGTGTATACTCAGTTCTATTTCTTCAATGTCACC
 AATCCAGAGGAGATCCTCAGAGGGGAGACCCCTCGGGTGAAGAAGTGGGGCCATACACCTACAGGGAAC
 TCAGAAACAAAGCAAATATTCAATTTGGAGATAATGGAACAACAATATCTGCTGTAGCAACAAGGCCTA
 TGTTTTGAAACGAGACCAATCTGTTGGAGACCCTAAAATTGACTTAATTAGAACATTAATATTCCTGTA
 TTGACTGTCATAGAGTGGTCCCAGGTGCACTTCTCAGGGAGATCATCGAGGCCATGTTGAAAGCCTATC
 AGCAGAAGCTCTTTGACTCACACAGTTGACGAATTGCTCTGGGGCTACAAAGATGAAATCTTGCCCT
 TATCCATGTTTTAGGCCGATATCTCTCCCTATTTTGGCCTATTCTATGAGAAAAATGGGACTAATGAT
 GGAGACTATGTTTTCTAACTGGAGAAGACAGTTACCTTAACTTTACAAAAATTGTGGAATGGAATGGGA
 AAACGTCACCTTGACTGGTGGATAACAGACAAGTGAATATGATTAATGGAACAGATGGAGATTCTTTTCA
 CCCACTAATAACCAAGATGAGGTCCTTTATGTCTTCCCATCTGACTTTTGCAGGTGAGTATATTACT
 TTCAGTGACTATGAGAGTGTACAGGGACTGCCTGCCTTTCGGTATAAAGTTCTGCAGAAATATTAGCCA
 ATACGTCAGACAATGCCGGCTTCTGTATACCTGAGGGAAGTGCCTGGGCTCAGGAGTTCTGAATGTCAG
 CATCTGCAAGAATGGTGCACCCATCATTATGTCTTCCACACTTTTACCAAGCAGATGAGAGGTTTGT
 TCTGCCATAGAAGCATGCACCCAAATCAGGAAGACCATGAGACATTTGTGGACATTAATCCTTTGACTG
 GAATAATCCTAAAAGCAGCCAAGAGGTTCCAAATCAACATTTATGTCAAAAAATTAGATGATTTGTTGA
 AACGGGAGACATTAGAACCATGGTTTTCCAGTGATGTACCTCAATGAGAGTGTTACATTGATAAAGAG
 ACGGCGAGTTCGACTGAAGTCTATGATTAACACTACTTTGATCATACCAACATACCCTACATCATATGG
 CGCTGGGTGTGTTCTTTGGTTGGTTTTTACCTGGCTTGCATGCAAAGGACAGGGATCCATGGATGAGGG
 AACAGCGGATGAAAGAGCACCCCTCATTGAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202162 protein sequence
 Red=Cloning site Green=Tags(s)

MGRCCFYTAGTLLSLLLVTSVLLVARVFQKAVDQSIKKIVLRNGTEAFDSWEKPPLPVYTQFYFFNVN
 NP EEILRGETPRVEEVGPYTYRELNRNKANIQFGDNGTTISAVSNKAYVFERDQSVGDPKIDLIRTLNIPV
 LTVIEWSQVHFLREIEAMLKAYQKLFVTHTVDELLWGYKDEILSLIHVFRPDISPYPFLFYEKNGTND
 GDYVFLTGEDSYLNFTKIVEWNGKSLDWWITDKCNMINGTDGDSFHPLITKDEVLYVFPDFCRSVYIT
 FSDYESVQGLPAFRYKVP AEILANTSDNAGFCIPEGNCLGSGVLNVSICKNGAPIIMSFPHFYQADERFV
 SAIEGMHPNQEDHETFVDINPLTGIIILKAAKRFQINIYVKKLDDFVETGDIRTMVFPVMYL NESVHIDKE
 TASRLKSMINTLLIITNIPYIIMALGVFFGLVFTWLACKGQGSMD EGTADERAPLIRT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6147_f09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005506

ORF Size: 1434 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_005506.4](#)

RefSeq Size: 4780 bp

RefSeq ORF: 1437 bp

Locus ID: 950

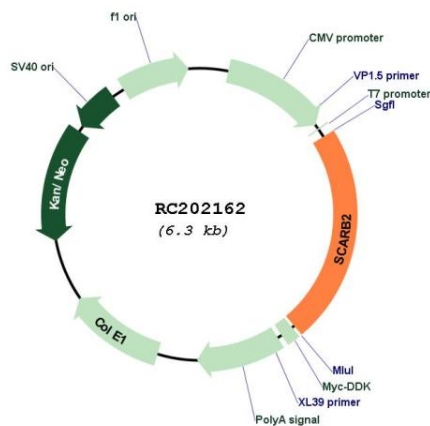
UniProt ID: [Q14108](#)

Cytogenetics: 4q21.1

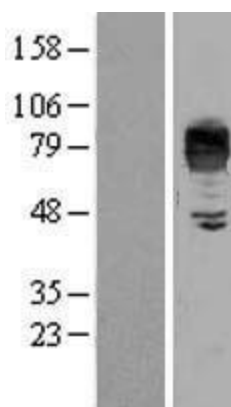
Domains:	CD36
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Lysosome
MW:	54.3 kDa

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]

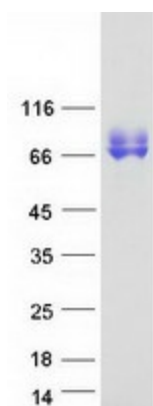
Product images:



Circular map for RC202162



Western blot validation of overexpression lysate (Cat# [LY401685]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202162 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SCARB2 protein (Cat# [TP302162]). The protein was produced from HEK293T cells transfected with SCARB2 cDNA clone (Cat# RC202162) using MegaTran 2.0 (Cat# [TT210002]).