

## Product datasheet for **RC233803**

### LIMPII (SCARB2) (NM\_001204255) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LIMPII (SCARB2) (NM\_001204255) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** LIMPII  
**Synonyms:** AMRF; CD36L2; EPM4; HLG85; LGP85; LIMP-2; LIMPII; SR-BII  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233803 representing NM\_001204255  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCGATGCTGCTTCTACACGGCGGGGACGTTGTCCCTGCTCCTGCTGGTGACCAGCGTCACGCTGC  
TGGTGGCCCGGTCTCCAGAAGGCTGTAGACCAGAGTATCGAGAAGAAAATTGTGTTAAGGAATGGTAC  
TGAGGCATTTGACTCCTGGGAGAAGCCCCCTCGCCTGTGTATACTCAGTTCTATTTCTCAATGTCACC  
AATCCAGAGGAGATCCTCAGAGGGGAGACCCCTCGGGTGAAGAAGTGGGGCCATACACCTACAGGTCAC  
TTGACTGGTGGATAACAGACAAGTGCAATATGATTAATGGAACAGATGGAGATTCTTTCCACCCACTAAT  
AACCAAAGATGAGGTCTTTATGTCTTCCCATCTGACTTTTGCAGGTCAGTGTATATTACTTTTCAGTGAC  
TATGAGAGTGACAGGGACTGCCTGCTTTCGGTATAAAGTTCCTGCAGAAATATTAGCCAATACGTCAG  
ACAATGCCGGCTTCTGTATACCTGAGGGAACTGCCTGGGCTCAGGAGTTCTGAATGTCAGCATCTGCAA  
GAATGGTGCACCCATCATTATGTCTTCCACACTTTTACCAAGCAGATGAGAGGTTTGTCTGCCATA  
GAAGGCATGCACCCAAATCAGGAAGACCATGAGACATTTGTGGACATTAATCCTTTGACTGGAATAATCC  
TAAAAGCAGCCAAGAGGTTCCAAATCAACATTTATGTCAAAAATTAGATGACTTTGTTGAAACGGGAGA  
CATTAGAACCATGGTTTTCCAGTGATGACCTCAATGAGAGTGTTCACATTGATAAAGAGACGGCGAGT  
CGACTGAAGTCTATGATTAACACTACTTTGATCATCACCAACATACCCTACATCATGCGCGTGGGTG  
TGTTCTTTGGTTTTGTTTTACCTGGCTGCATGCAAAGGACAGGGATCCATGGATGAGGGAACAGCGGA  
TGAAAGAGCACCCCTCATTCTGAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233803 representing NM\_001204255  
 Red=Cloning site Green=Tags(s)

MGRCCFYTAGTLLSLLLVTSTLLVARVFQKAVDQSIIEKKIVLRNGTEAFDSWEKPLPVYTFYFFNVT  
 NPPEILRGETPRVEEVGPYTYRSLDWWITDKCNMINGTDGDSFHPLITKDEVLYVFPDFCRSVYITFSD  
 YESVQGLPAFRYKVP AEILANTS DNAGFCIPEGNCLGSGVLNVSICKNGAPIIMSFPHFYQADERFVSAI  
 EGMHPNQEDHETFVDINPLTGIILKAAKRFQINIYVKLLDDFVETGDIRTVMVFPVMYL NESVHIDKETAS  
 RLKSMINTTLIITNIPYIIMALGVFFGLVFTWLACKGQGSMD EGTADERAPLIRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001204255

**ORF Size:** 1005 bp

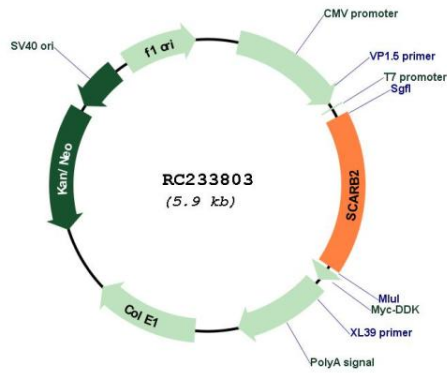
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001204255.2</a>
<b>RefSeq Size:</b>	4340 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	950
<b>UniProt ID:</b>	<a href="#">Q14108</a>
<b>Cytogenetics:</b>	4q21.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Lysosome
<b>MW:</b>	38.2 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC233803