

Product datasheet for **RC203703**

LMBR1 (NM_022458) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMBR1 (NM_022458) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LMBR1
Synonyms:	ACHP; C7orf2; DIF14; LSS; PPD2; THYP; TPT; ZRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC203703 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAAGGGCAGGACGAGGTGTGCGCGCGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATAT
 GTTTCCTTCTTTTGCCATTCTCTACGTTGTTTCTACTTCATCATCACAAAGATACAAGAGAAAATCAGA
 TGAACAAGAAGATGAAGATGCCATCGTCAACAGGATTTGTTGTTTTGAGCACGTTCACTCTCGCAGTG
 TCAGCTGGGGCTGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGA
 ACTACTATATTCAGTGGCTAAATGGCTCCCTGATTCATGGTTTGTGGAATCTTGCTTCCCTTTTTCCAA
 CCTTTGTTTATTTGATTGATGCCCTTTGCCTTTTCTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAA
 AAGGGAATCCGAGCCCGCATTTTAGAGACTTTGGTCATGCTTCTTCTTCTGCGTTACTCATTCTTGGGA
 TAGTGTGGGTAGCTTCAGCACTCATTGACAACGATGCCGAAGCATGGAATCTTTATATGATCTCTGGGA
 GTTCTATCTACCCTATTTATATTCCTGTATATCATTGATGGGATGTTTGTACTTCTCTTGTGTACACCA
 GTTGGCCTTTCTCGTATGTTACAGTGATGGGTCAAGTTGCTAGTGAAGCCAACAATCTTGAAGACCTGG
 ATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAGACGACTAAATGGGCTGTCTTCATC
 GGTGGAATACAACATAATGGAGTTGGAACAAGAACTTGAAATGTAAAGACTCTTAAGACAAAATTAGAG
 AGGCGAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTGTATCCCGCTGTTATGGTTCTCCTTCTTATTG
 AGACATCCATCTCGGTCTCTTGGTGGCTTGAATATCTTTGCCTATTGGTTGATGAAACAGCAATGCC
 AAAAGGAACAAGGGGCTGGAATAGGAAATGCCTCTCTTCTACGTTTGGTTTTGTGGGAGCTGCGCTT
 GAAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTCGGCTTCTATAGCCTTCGATTTTTTGAA
 ACTTTACTCCCAAGAAAGATGACACAATATGACAAAGATCATTGAAATTGTGTGCCATCTTGGTTTT
 GAGCTCTGCTCTGCCTGTGATGTCGAGAACTGGGAATCACTAGATTTGATCTACTTGGCGACTTTGGA
 AGGTTTAAATTGGCTGGGAAATTTCTATATTGATTATCCTACAATTTGCTTTTTGCTATTGTGACAACAT
 TGTGTCTGGTCCGAAATTCACCTCTGCAGTTCGAGAAGAACTTTCAAGGCCCTAGGGCTTCATAAACT
 TCATTTACCAATACTTCAAGGGATTGAGAAACAGCCAAGCCTTCTGTAATGGGCATCAGAAAGCACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203703 protein sequence
 Red=Cloning site Green=Tags(s)

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIAIVNRISLFLSTFTLAV
 SAGAVLLLPFSIISNEILLSPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPAFFFFLESEGFAGLK
 KGIRARILETLVMLLLLALLILGIWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLLLCTP
 VGLSRMFTVMGQLLVKPTILEDLDEQIYIITLEEEALQRRNLGLSSSVEYNIMELEQELENVKTCLKLE
 RRKKASAWERNLYPAVMVLLL IETSI SVLLVACNILCLLVDETAMPKGRPGIGNASLSTFGFVGAAL
 EIILIFYLMVSSVVG FYSLRFFGNFTPKKDDTTMTKIIGNCVSILVLSALPVMSRTLGITRFDLLGDFG
 RFNWLGNFYIVLSYNLLFAIVTTLCLVRKFTSAVREELFKALGLHKLHLPNTSRDSETAKPSVNHQKAL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6309_h05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_022458

ORF Size: 1470 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_022458.4](#)

RefSeq Size: 4909 bp

RefSeq ORF: 1473 bp

Locus ID: 64327

UniProt ID: Q8WVP7

Cytogenetics: 7q36.3

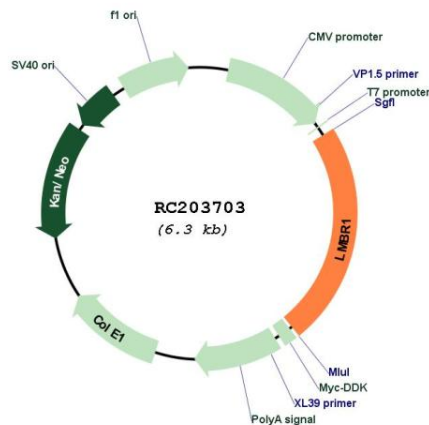
Domains: LMBR1, YdjC

Protein Families: Transmembrane

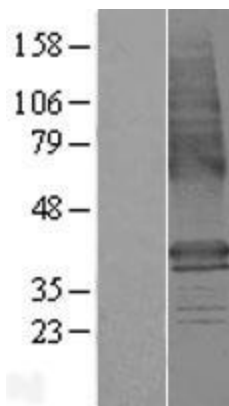
MW: 55.1 kDa

Gene Summary: This gene encodes a member of the LMBR1-like membrane protein family. Another member of this protein family has been shown to be a lipocalin transmembrane receptor. A highly conserved, cis-acting regulatory module for the sonic hedgehog gene is located within an intron of this gene. Consequently, disruption of this genic region can alter sonic hedgehog expression and affect limb patterning, but it is not known if this gene functions directly in limb development. Mutations and chromosomal deletions and rearrangements in this genic region are associated with acheiropody and preaxial polydactyly, which likely result from altered sonic hedgehog expression. [provided by RefSeq, Jul 2008]

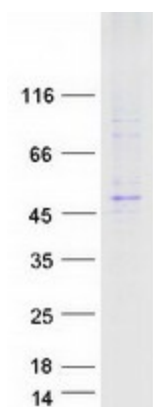
Product images:



Circular map for RC203703



Western blot validation of overexpression lysate (Cat# [LY411673]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LMBR1 protein (Cat# [TP303703]). The protein was produced from HEK293T cells transfected with LMBR1 cDNA clone (Cat# RC203703) using MegaTran 2.0 (Cat# [TT210002]).