

Product datasheet for **RG203703**

LMBR1 (NM_022458) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMBR1 (NM_022458) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LMBR1
Synonyms:	ACHP; C7orf2; DIF14; LSS; PPD2; THYP; TPT; ZRS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203703 representing NM_022458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGAAGGGCAGGACGAGGTGTGCGCGCGGAGCAGCACTTCCACAGCCAAGTGCGGGAGTCCACGATAT
 GTTTCCTCTTTTGGCATTCTCTACGTTGTTTCTACTTCATCATCACAAAGATACAAGAGAAAATCAGA
 TGAACAAGAAGATGAAGATGCCATCGTCAACAGGATTTGTTGTTTTGAGCACGTTCACTCTCGCAGTG
 TCAGCTGGGGCTGTTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGA
 ACTACTATATTCAGTGGCTAAATGGCTCCCTGATTCATGGTTTGTGGAATCTTGCTTCCCTTTTTCCAA
 CCTTTGTTTATTTGATTGATGCCCTTTGCCTTTTCTTCTGGAATCAGAAGGCTTTGCTGGCCTGAAA
 AAGGGAATCCGAGCCCGATTTTAGAGACTTTGGTCATGCTTCTTCTTCTGCGTTACTCATTCTTGGA
 TAGTGTGGGTAGCTTCAGCACTCATTGACAACGATGCCGAAGCATGGAATCTTATATGATCTCTGGGA
 GTTCTATCTACCCTATTTATATTCCTGTATATCATTGATGGGATGTTTGTACTTCTCTTGTGTACACCA
 GTTGGCCTTTCTCGTATGTTACAGTGATGGGTCAAGTTGCTAGTGAAGCCAACAATCTTGAAGACCTGG
 ATGAACAAATTTATATCATTACCTTAGAGGAAGAAGCACTCCAGAGACGACTAAATGGGCTGTCTTCATC
 GGTGGAATACAACATAATGGAGTTGGAACAAGAACTTGAAATGTAAAGACTCTTAAGACAAAATTAGAG
 AGGCGAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTGTATCCCGCTGTTATGGTTCTCCTTCTTATTG
 AGACATCCATCTCGGTCTCTTGGTGGCTTGAATATCTTTGCCTATTGGTTGATGAAACAGCAATGCC
 AAAAGGAACAAGGGGCTGGAATAGGAAATGCCTCTCTTTCTACGTTTGGTTTTGTGGGAGCTGCGCTT
 GAAATCATTTTGATTTTCTATCTTATGGTGTCTCTGTTGTCGGCTTCTATAGCCTTCGATTTTTTGAA
 ACTTTACTCCCAAGAAAGATGACACAATATGACAAAGATCATTGAAATTGTGTGTCCATCTTGTTT
 GAGCTCTGCTCTGCCTGTGATGTCGAGAACACTGGGAATCACTAGATTTGATCTACTTGGCGACTTTGGA
 AGGTTTAAATTGGCTGGGAAATTTCTATATTGATTATCCTACAATTTGCTTTTTGCTATTGTGACAACAT
 TGTGTCTGGTCCGAAAATTCACCTCTGCAGTTCGAGAAGAACTTTCAAGGCCCTAGGGCTTCATAAACT
 TCACCTACCAATACTTCAAGGGATTGAGAAACAGCCAAGCCTTCTGTAAATGGGCATCAGAAAGCACTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

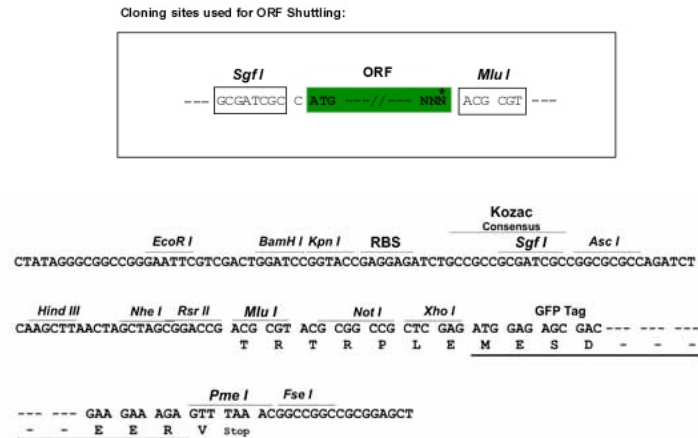
>RG203703 representing NM_022458
 Red=Cloning site Green=Tags(s)

MEGQDEVSAREQHFHSQVRESTICFLLFAILYVVSFYIITRYKRKSDEQEDEDIVNRISLFLSTFTLAV
 SAGAVLLLPFSIISNEILLSFPQNYIIQWLNGSLIHGLWNLASLFSNLCLFVLMPPAFFFLESEGFAGLK
 KGIRARILETLVMLLLLALLILGIWVASALIDNDAASMESLYDLWEFYLPYLYSCISLMGCLLLCTP
 VGLSRMFTVMGQLLVKPTILEDLDEQIYIITLEEEALQRRNLGLSSSVEYNIMELEQELENVKTCLKLE
 RRKKASAWERNLYPVMVLLLIETSIISVLLVACNILCLLVDETAMPKGTRGPGIGNASLSTFGFVGAAL
 EIILIFYLMVSSVVGFYSLRFFGNFTPKKDDTTMTKIIGNCVSILVSSALPVMSTRLLGITRFDLLGDFG
 RFNWLGNFYIVLSYNLLFAIVTTLCLVRKFTSAVREELFKALGLHLHLPNTSRDSETAKPSVNGHQKAL

TRTRPLE – GFP Tag – V

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

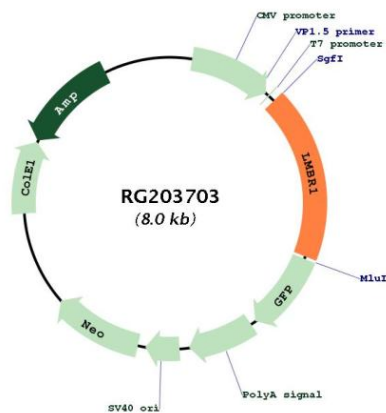
Cytogenetics: 7q36.3

Domains: LMBR1, YdjC

Protein Families: Transmembrane

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 RG203703