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 RC230581

MAN1 (LEMD3) (NM_001167614) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1 (LEMD3) (NM_001167614) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAN1
Synonyms:	MAN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

ORF Nucleotide Sequence:

>RC230581 representing NM_001167614
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGCAGCAGCTTCGGCGCCTCAGCAGCTCTCGGATGAGGAGCTTTTCTCTCAGCTCCGCCGTT
ACGGCCTGTCTCCCGGACCAGTGACGGAGAGCACCCGCCCGGTCTACCTCAAGAAGCTGAAGAAGCTTCG
AGAGGAAGAGCAGCAACAGCACCGGTCAGGGGGCCGCGGCAACAAGACGCGGAACAGTAATAACAATAAC
ACGGCAGCCGCCACGGTCGCAGCCGCGGGACCAGCGGCGGCGGCGGCCGCGGGGATGGGGGTCCGGCCGG
TCTCGGGCGACCTCTCCTACTTACGGACTCCTGGGGGCCTGTGCCGAATCTCGGCCTCTGGCCCAGAGAG
CCTCCTGGGAGGGCCCGGGGGCGCCTCCGCCGCCCCCGCGGCTGGCAGCAAAGTGCTGCTGGGCTTCAGC
TCGGACGAGTCGGACGTGGAGGCCAGTCCCCGGGACCAGGCCGGCGGCGGCGGGAGGAAAGACCGGGCTT
CGCTCCAGTACCGCGGGCTCAAAGCGCCGCCGGCGCCCCTGGCCGCCAGCGAGGTGACTAACAGCAACTC
TGCAGAGCGAAGGAAGCCCCACTCGTGGTGGGGGGCCAGGAGGCCGGCGGGCCCCGAGCTGCAGACCCCG
CCGGGGAAAGATGGAGCAGTGGAGGACGAGGAAGGGGAGGGAGAGGACGGTGAGGAGAGGGACCCGGAGA
CCGAGGAGCCGCTCTGGGCGAGCCGGACCGTGAATGGCAGCCGGCTTGTCCCCTACAGCTGCCGGGAAAA
CTATTCGGACTCAGAGGAAGAGGACGACGACGACGTGGCCTCCAGCAGACAGGTATTAAAGGACGACTCC
CTTTCCCGGCATCGGCCCAGACGAACCCATAGTAAGCCTCTCCCCCCGCTGACTGCTAAATCGGCCGGCG
GCAGGCTGGAGACTTCAGTTCAGGGAGGGGGAGGACTCGCGATGAATGACAGGGCGGCGGCTGCCGGGAG
TCTAGACAGGAGCCGAAACCTCGAAGAGGCGGCGGCCGCGGAGCAGGGAGGAGGGTGTGATCAAGTGGAC
TCCAGCCCCGTTCCTAGATACCGTGTTAACGCTAAGAAACTGACCCCTCTCCTGCCCCCGCCACTTACTG
ACATGGACTCAACCTTGGATTCGTCAACAGGCTCCCTTCTGAAAACCAATAATCATATTGGCGGTGGGGC
CTTCAGTGTGGACTCCCCCAGGATTTATTCTAACAGTCTCCCTCCCAGTGCGGCGGTGGCCGCCTCTAGT
TCACTCAGGATCAATCACGCCAATCATACGGGCTCCAATCATACCTACCTGAAAAACACATACAACAAAC
CGAAGCTTTCCGAACCCGAAGAGGAACTTCTCCAGCAATTTAAACGGGAGGAGGTGTCCCCAACAGGGAG
TTTCAGTGCCCACTACTTGTCGATGTTTCTCTTAACTGCTGCCTGCTTATTTTTCCTAATACTGGGACTG
ACTTACCTAGGAATGAGAGGGACAGGAGTATCTGAGGATGGAGAACTCAGCAAAAACCCCTTTGGTGAAA
CATTTGGAAAAATACAAGAAAGTGAAAAAACTCTTATGATGAACACATTATATAAGCTTCATGATCGATT
GGCACAGCTTGCAGGAGATCATGAATGTGGCAGTTCTAGTCAAAGAACGCTTTCTGTTCAAGAGGCAGCT
GCGTATTTAAAAGATTTAGGTCCTGAATATGAAGGTATATTTAACACTTCATTGCAGTGGATCTTAGAAA
ATGGAAAAGATGTTGGAATAAGGTGTGTTGGTTTTGGCCCTGAGGAAGAATTGACAAATATAACTGATGT
GCAGTTTTTACAGTCCACAAGACCACTGATGTCTTTTTGGTGTCGTTTTCGACGTGCTTTTGTTACTGTA
ACTCACAGATTATTGTTGTTATGCTTAGGTGTAGTGATGGTTTGTGTCGTTCTGCGTTACATGAAATATC
GATGGACAAAAGAAGAGGAGGAAACAAGGCAGATGTATGATATGGTGGTAAAGATTATAGATGTTTTACG
AAGTCATAATGAAGCCTGCCAGGAAAACAAAGATTTACAACCTTACATGCCTATTCCACATGTACGCGAT
TCCTTAATACAGCCTCATGACAGGAAAAAAATGAAGAAAGTCTGGGATAGAGCTGTTGACTTCCTTGCTG
CTAATGAGTCTAGAGTTCGCACGGAAACACGAAGAATAGGTGGTGCAGATTTTCTGGTTTGGCGGTGGAT
CCAGCCTTCTGCATCCTGTGACAAAATATTAGTTATACCTTCTAAAGTATGGCAAGGTCAAGCATTTCAT
TTAGATAGAAGAAATTCACCACCAAATAGTTTGACACCGTGTCTAAAGATTCGGAATATGTTTGATCCCG
TTATGGAAATAGGGGATCAGTGGCATTTGGCAATTCAAGAAGCAATTTTAGAAAAATGCAGTGATAATGA
TGGCATTGTTCACATTGCAGTAGACAAAAATTCACGTGAGGGTTGTGTATATGTTAAATGTCTGTCTCCA
GAATATGCTGGAAAGGCTTTTAAAGCATTGCATGGCTCTTGGTTTGATGGGAAATTGGTTACAGTAAAAT
ATTTACGACTAGATAGATACCACCATCGCTTTCCCCAGGCTCTCACTTCCAACACTCCATTGAAGCCATC
AAATAAACATATGAACTCCATGTCTCATCTTCGTCTTCGGACTGGCCTAACCAATTCTCAAGGAAGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC230581 representing NM_001167614
Red=Cloning site Green=Tags(s)

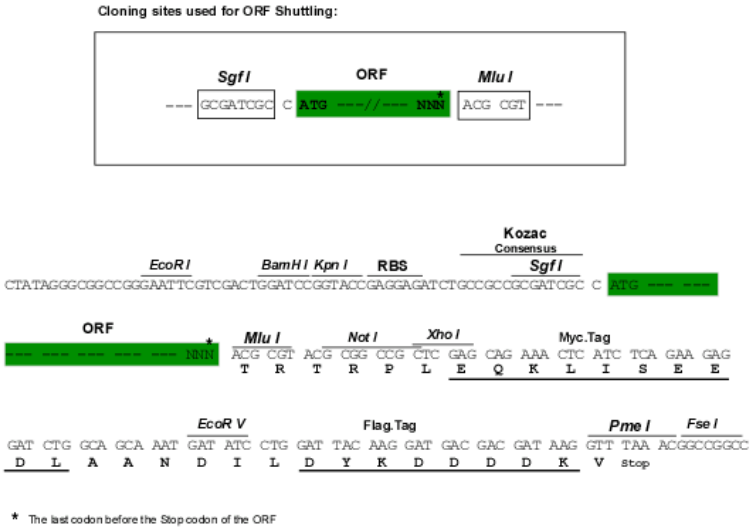
MAAAAASAPQQLSDEELFSQLRRYGLSPGPVTESTRPVYLKKLKKLREEEQQQHRSGGRGNKTRNSNNNN
TAAATVAAAGPAAAAAAGMGVRPVSGDLSYLRTPGGLCRISASGPESLLGGPGGASAAPAAGSKVLLGFS
SDESDVEASPRDQAGGGGRKDRASLQYRGLKAPPAPLAASEVTNSNSAERRKPHSWWGARRPAGPELQTP
PGKDGAVEDEEGEGEDGEERDPETEEPLWASRTVNGSRLVPYSCRENYSDSEEEDDDDVASSRQVLKDDS
LSRHRPRRTHSKPLPPLTAKSAGGRLETSVQGGGGLAMNDRAAAAGSLDRSRNLEEAAAAEQGGGCDQVD
SSPVPRYRVNAKKLTPLLPPPLTDMDSTLDSSTGSLLKTNNHIGGGAFSVDSPRIYSNSLPPSAAVAASS
SLRINHANHTGSNHTYLKNTYNKPKLSEPEEELLQQFKREEVSPTGSFSAHYLSMFLLTAACLFFLILGL
TYLGMRGTGVSEDGELSKNPFGETFGKIQESEKTLMMNTLYKLHDRLAQLAGDHECGSSSQRTLSVQEAA
AYLKDLGPEYEGIFNTSLQWILENGKDVGIRCVGFGPEEELTNITDVQFLQSTRPLMSFWCRFRRAFVTV
THRLLLLCLGVVMVCVVLRYMKYRWTKEEEETRQMYDMVVKIIDVLRSHNEACQENKDLQPYMPIPHVRD
SLIQPHDRKKMKKVWDRAVDFLAANESRVRTETRRIGGADFLVWRWIQPSASCDKILVIPSKVWQGQAFH
LDRRNSPPNSLTPCLKIRNMFDPVMEIGDQWHLAIQEAILEKCSDNDGIVHIAVDKNSREGCVYVKCLSP
EYAGKAFKALHGSWFDGKLVTVKYLRLDRYHHRFPQALTSNTPLKPSNKHMNSMSHLRLRTGLTNSQGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8007_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



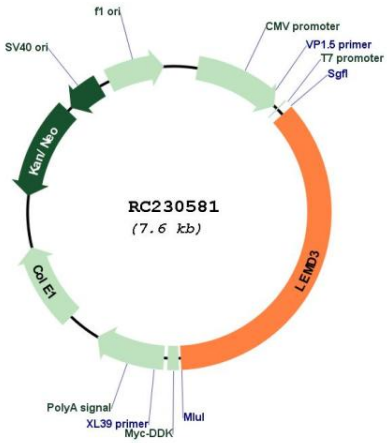
ACCN: NM_001167614

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

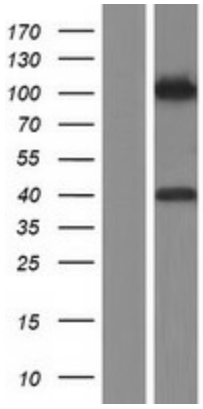
ORF Size:	2730 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. 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_001167614.2
RefSeq ORF:	2733 bp
Locus ID:	23592
UniProt ID:	Q9Y2U8
Cytogenetics:	12q14.3
Protein Families:	Transmembrane
MW:	100.3 kDa
Gene Summary:	This locus encodes a LEM domain-containing protein. The encoded protein functions to antagonize transforming growth factor-beta signaling at the inner nuclear membrane. Two transcript variants encoding different isoforms have been found for this gene. Mutations in this gene have been associated with osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis.[provided by RefSeq, Nov 2009]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:

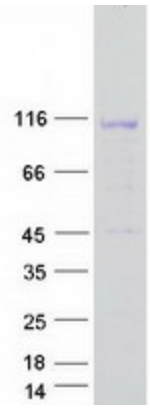


Circular map for RC230581



Western blot validation of overexpression lysate (Cat# [LY433581]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230581 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Coomassie blue staining of purified LEMD3 protein (Cat# [TP330581]). The protein was produced from HEK293T cells transfected with LEMD3 cDNA clone (Cat# RC230581) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US