

Product datasheet for **RG212759**

MAN1 (LEMD3) (NM_014319) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1 (LEMD3) (NM_014319) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAN1
Synonyms:	MAN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212759 representing NM_014319
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGGCAGCAGCTTCGGCGCCTCAGCAGCTCTCGGATGAGGAGCTTTTCTCTCAGCTCCGCCGTT
 ACGGCCTGTCTCCCGACCAGTGACGGAGAGCACCCGCCCGTCTACCTCAAGAAGCTGAAGAAGCTTCG
 AGAGGAAGAGCAGCAACAGCACCGGTACAGGGGGCCGCGGCAACAAGACGCGGAACAGTAATAACAATAAC
 ACGGCAGCCGCCACGGTCGCAGCCCGGGACCAGCGCGCGCGGCCGCGGGGATGGGGTCCGGCCGG
 TCTCGGGCAGCTCTCTACTTACGGACTCCTGGGGCCTGTGCCGAATCTCGCCTCTGGCCAGAGAG
 CCTCTGGGAGGGCCCGGGGCGCTCCGCCGCCCGCGGCTGGCAGCAAAGTGTCTGGGCTTCAGC
 TCGGACGAGTCGGACGTGGAGGCCAGTCCCGGGACCAGCCGGCGCGGGAGGAAAGACCGGGCTT
 CGTCCAGTACCGCGGGCTCAAAGCGCCCGCGGCCCTGGCCGCCAGCGAGGTGACTAACAGCAACTC
 TGCAGAGCGAAGGAAGCCCACTCGTGGTGGGGGCCAGGAGGCCGGCGGCCCGAGCTGCAGACCCCG
 CCGGGGAAAGATGGAGCAGTGGAGGACGAGGAAGGGAGGAGAGACGGTGAGGAGAGGGACCCGAGA
 CCGAGGAGCCGCTCTGGGCGAGCCGACCGTGAATGGCAGCCGGCTTGTCCCCTACAGCTGCCGGAAAA
 CTATTCGGACTCAGAGGAAGAGGACGACGACGAGTGGCCTCCAGCAGACAGGTATTAAGGACGACTCC
 CTTTCCCGCATCGGCCAGACGAACCCATAGTAAGCCTCTCCCCCGCTGACTGCTAAATCGGCCGGCG
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 CTCAGTGTGGACTCCCCAGGATTTATTCTAACAGTCTCCCTCCAGTGCGGCGGTGGCCGCTCTAGT
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 TTTCAAGTCCCACTACTTGTGATGTTTCTTAACTGCTGCCTGCTATTTTTCTAATAACTGGGACTG
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 AAACATTTGAAAAATACAAGAAAGTAAAAAACTCTTATGATGAACACATTATATAAGTTCATGATCG
 ATTGGCACAGCTTGCAGGAGATCATGAATGTGGCAGTCTAGTCAAAGAACGCTTCTGTTCAAGAGGCA
 GCTGCGTATTTAAAAGATTTAGGTCCTGAATATGAAGTATATTTAACACTTCATTGCAGTGGATCTTAG
 AAAATGGAAAAGATGTTGGAATAAGGTGTGTTGGTTTTGGCCCTGAGGAAGAATTGACAAATATAACTGA
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 CCGTTATGAAAATAGGGGATCAGTGGCATTGGCAATTCAGAAGCAATTTAGAAAAATGCAGTGATAA
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 AATATTTACGACTAGATAGATACCACCATCGCTTTCCCGAGGCTCTCACTTCCAACACTCCATTGAAGCC
 ATCAAATAACATATGAACCTCATGTCTCATCTTCGTCTCGGACTGGCCTAACCAATTCTCAAGGAAGT
 TCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212759 representing NM_014319
 Red=Cloning site Green=Tags(s)

MAAAAASAPQQLSDEELFSQLRRYGLSPGPVTESTRPVYLKLLKLRREEEQQHRSGGGRGNKTRNSNNN
 TAAATVAAAGPAAAAAGMGRPVSGLSYLRTPGGLCRISASGPESLLGGPGGASAAPAAGSKVLLGFS
 SDESDEASPRDQAGGGGRKDRASLQYRGLKAPPAPLAASEVTNSNSAERRKPHSWWGARRPAGPELQTP
 PGKDGAVEDEEGEGEDGEERDPETEEPLWASRTVNGSRLVPYSCRENYSDSEEDDDDVASSRQVLKDDS
 LSRHRPRRTHSKPLPPLTAKSAGGRLETSVQGGGLAMNDRAAAAGSLDRSRNLEEA AAAEQGGGCDQVD
 SSPVPRYRVNAKLLTPLLPPLTDMSTLDSSTGSLKTNNHIGGAFSVDSPRIYNSLPPSAVAASS
 SLRINHANHTGSNHTYLNKYNPKLSEPEEELLQQFKREEVSPTGSFSAHYLSMFLTTAAFLILGL
 TYLGMRGTGVSEDELSIENPFGETFGKIQESEKTLMMNTLYKLHDLAQLAGDHECGSSSQRTLSVQEA
 AAYLKDLGPEYEGIFNTSLQWILENGKDVGIRCVGFGPEEELTNI TDVQFLQSTRPLMSFWCRFRFAVT
 VTHRLLLLCLGVVMVCVLRMYKRWTKEEEETRQMYDMVVKIIDVLRSHNEACQENKDLQPYMPIHVR
 DSLIQPHDRKKMKKVVWDRAVDFLAANESRVRTETRRIGGADFLVWRWIQPSASCDKILVIPSKVWQGF
 HLDRRNSPPNSLTPCLKIRNMFDPYMEIGDQWHLAIQEAILEKCSNDNGIVHIAVDKNSREGCVYVKCLS
 PEYAGKAFKALHGSWFDGKLVTVKYLRLDRYHHRFPQALTSNTPLKPSNKHMSMSHLRLRTGLTNSQGS
 S

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

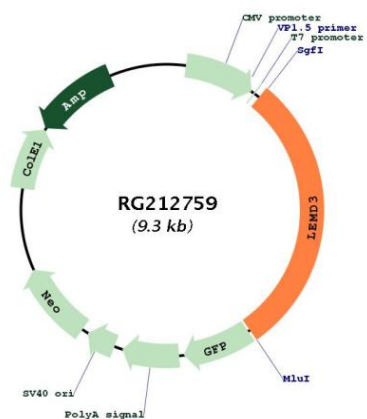
Cloning Scheme:



ACCN: NM_014319

ORF Size:	2733 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:	<ol style="list-style-type: none">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_014319.5
RefSeq Size:	4785 bp
RefSeq ORF:	2736 bp
Locus ID:	23592
UniProt ID:	Q9Y2U8
Cytogenetics:	12q14.3
Domains:	LEM
Protein Families:	Transmembrane
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]

Product images:



Circular map for RG212759