

Product datasheet for **SC329219**

MAN1 (LEMD3) (NM_001167614) Human Untagged Clone

Product data:

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



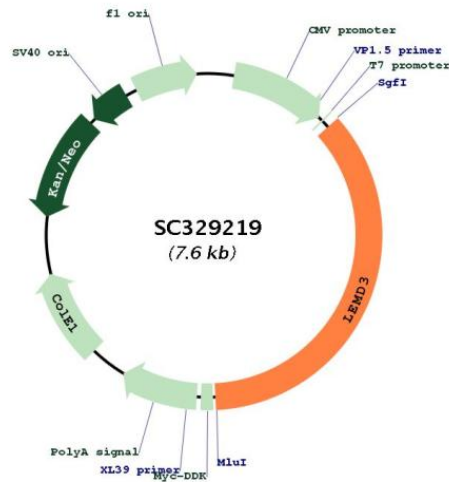
[View online »](#)

Fully Sequenced ORF: >SC329219 representing NM_001167614.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGGCGGCAGCAGCTTCGGCGCCTCAGCAGCTCTCGGATGAGGAGCTTTTCTCTCAGCTCCGCCGT
TACGGCCTGTCTCCCGGACCAGTGACGGAGAGCACCCGCCGGTCTACCTCAAGAAGCTGAAGAAGCTT
CGAGAGGAAGAGCAGCAACAGCACCGGTACGGGGCCCGGCAACAAGACGCGGAACAGTAATAACAAT
AACACGGCAGCCGCCACGGTCGACGCGGGACCAGCGCGCGCGGGATGGGGTCCGG
CCGGTCTCGGGGACCTCTCCTACTTACGGACTCCTGGGGCCTGTGCCGAATCTCGGCCTCTGGCCCA
GAGAGCTCTGGGAGGGCCCGGGGCGCTCCGCCGCCCGCGGCTGGCAGCAAAGTGTCTGGGC
TTCAGCTCGGACGAGTCGGACGTGGAGGCCAGTCCCGGGACCAGGCCGGCGGGGAGGAAAGAC
CGGGCTTCGCTCCAGTACCGGGGCTCAAAGCGCCCGCGGCCCTGGCCGCCAGCGAGGTGACTAAC
AGCAACTCTGCAGAGCAAGGAAGCCCACTCGTGGTGGGGGCCAGGAGCCGGCGGGCCCGAGCTG
CAGACCCCGCGGGAAAGATGGAGCAGTGGAGGACGAGGAAGGGGAGGGAGAGGACGGTGAGGAGAGG
GACCCGGAGACCGAGGAGCCGCTCTGGCGAGCCGGACCGTGAATGGCAGCCGGCTTGCCCTACAGC
TGCCGGGAAAACATTCGGACTCAGAGGAAGAGGACGACGACGACGCTGGCCTCCAGCAGACAGGTATTA
AAGGACGACTCCCTTTCCCGGCATCGGCCCAGACGAACCCATAGTAAGCCTCTCCCCCGCTGACTGCT
AAATCGGCCGGCGCAGGCTGGAGACTTTCAGTTACGGGAGGGGAGGACTCGCGATGAATGACAGGGCG
GCGGCTGCCGGGAGTCTAGACAGGAGCCGAAACCTCGAAGAGGGCGGGCGCGGAGCAGGGAGGAGGG
TGTGATCAAGTGGACTCCAGCCCGTTCCTAGTACCGTGTAAACGCTAAGAACTGACCCCTCTCTG
CCCCGCCACTTACTGACATGGACTCAACCTTGGATTTCGTAACAGCTCCCTTCTGAAAACCAATAAT
CATATTGGCGGTGGGGCCTTTCAGTGGACTCCCGGAGTTTATTCTAACAGTCTCCCTCCCGAGCGG
CGGTGGCCGCCTCTAGTTCACGAGGATCAATCACGCCAATCATACGGGCTCCAATCATACCTACCTG
AAAAACACATACAACAAACCGAAGCTTTCCGAACCCGAAGAGGAACCTTCCAGCAATTTAAACGGGAG
GAGGTGTCCCAACAGGGAGTTTCAGTGCCCACTACTTGTGATGTTTCTTAACTGCTGCCTGCTTA
TTTTCTAATACTGGGACTGACTTACCTAGGAATGAGAGGGACAGGAGTATCTGAGGATGGAGAATC
AGCAAAAACCCCTTTGGTAAACATTTGGAAAAATACAAGAAAGTAAAAAACTTTATGATGAACACA
TTATATAAGTTCATGATCGATTGGCACAGCTTGCAGGAGATCATGAATGTGGCAGTTCTAGTCAAAGA
ACGCTTTCTGTTCAAGAGGCAGTGCATTTAAAAGATTTAGGTCTGAATATGAAGGTATATTTAAC
ACTTCATTGCAGTGGATCTTAGAAAATGGAAAAGATGTTGGAATAAGGTGTGTTGGTTTTGGCCCTGAG
GAAGAATTGACAAATATAACTGATGTGCAGTTTTTACAGTCCACAAGACCACTGATGTCTTTTTGGTGT
CGTTTTCGACGTGCTTTTGTACTGTAACCTCACAGATTATTGTTGTTATGCTTAGGTGTAGTGTGTT
TGTGTCGTTTCTGCGTTACATGAAATATCGATGGACAAAAGAAGAGGAGGAAAACAAGGCAGATGTATGAT
ATGGTGGTAAAGATTATAGATGTTTTACGAAGTCATAATGAAGCCTGCCAGGAAAAACAAGATTTACAA
CCTTACATGCCTATTCACATGTACGCGATTCTTAATACAGCCTCATGACAGGAAAAAATGAAGAAA
GTCTGGGATAGAGCTGTTGACTTCTTGTGCTAATGAGTCTAGAGTTCGCACGGAAACACGAAGAATA
GGTGGTGCAGATTTTCTGGTTGGCGGTGGATCCAGCCTTCTGCATCCTGTGACAAAATATTAGTTATA
CCTTCTAAAGTATGGCAAGGTCAAGCATTTCATTTAGATAGAAGAAATTCACCACCAATAGTTTGACA
CGGTGTCTAAAGATTCGGAATATGTTGATCCCGTTATGGAAATAGGGGATCAGTGGCATTGCGCAATT
CAAGAAGCAATTTTAGAAAAATGCAGTGATAATGATGGCATTGTTACATTGCAGTAGACAAAAATTCA
CGTGAGGGTGTGTATATGTTAAATGTCTGTCTCCAGAATATGCTGGAAAGGCTTTTAAAGCATTGCAT
GGCTCTTGGTTTGTGGGAAATGGTTACAGTAAAATATTTACGACTAGATAGATACCACCATCGCTTT
CCCCAGGCTCTCACTTCCAACACTCCATTGAAGCCATCAATAAACATATGAACTCCATGTCTCATCTT
CGTCTTCGGACTGGCCTAACCAATTCTCAAGGAAGTTCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_001167614

Insert Size: 2733 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_001167614.1](#)

RefSeq Size: 4795 bp

RefSeq ORF: 2733 bp

Locus ID: 23592

UniProt ID: [Q9Y2U8](#)

Cytogenetics: 12q14.3

Protein Families: Transmembrane

MW: 99.9 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]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.