

## Product datasheet for **SC115036**

### MAN1 (LEMD3) (NM\_014319) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1 (LEMD3) (NM_014319) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAN1
Synonyms:	MAN1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_014319, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCAGCAGCTTCGGCGCCTCAGCAGCTCTCGGATGAGGAGCTTTTCTCTCAGCTCCGCCGT
ACGGCCTGTCTCCCGACCAGTGACGGAGAGCACCCGCCCGTCTACCTCAAGAAGCTGAAGAAGCTTCG
AGAGGAAGAGCAGCAACAGCACCGGTACGGGGCCCGCGCAACAAGACCGGAACAGTAATAACAATAAC
ACGGCAGCCGCCACGGTCGCAGCCCGGGACCAGCGGCGCGGCGCGCGGGGATGGGGTCCGGCCGG
TCTCGGGCGACCTCTCTACTTACGGACTCCTGGGGCCTGTGCCGAATCTCGGCCCTCTGGCCAGAGAG
CCTCTGGGAGGGCCCGGGGGCGCTCCGCCGCCCGCGGCTGGCAGCAAAGTCTGCTGGGCTTCAGC
TCGGACGAGTCGGACGTGGAGGCCAGTCCCGGGACCAGGCCGGCGGGGAGGAAAGACCGGGCTT
CGCTCCAGTACCGCGGGCTCAAAGCGCCCGCGGCCCTGGCCGCCAGCGAGGTGACTAACAGCAACTC
TGCAGAGCGAAGGAAGCCCACTCGTGGTGGGGGCCAGGAGGCCGGCGGGCCCGAGCTGCAGACCCCG
CCGGGAAAGATGGAGCAGTGGAGGACGAGGAAGGGAGGAGAGACGGTGAGGAGAGGGACCCGGAGA
CCGAGGAGCCGCTCTGGCGAGCCGACCGTGAATGGCAGCCGGCTTGCCCTACAGCTGCCGGAAAA
CTATTCGACTCAGAGGAAGAGGACGACGACGAGTGGCCTCCAGCAGACAGGTATTAAGGACGACTCC
CTTTCCCGGCATCGGCCAGACGAACCCATAGTAAGCCTCTCCCCCGCTGACTGCTAAATCGGCCGGCG
GCAGGCTGGAGACTTCAGTTCAGGGAGGGGAGGACTCGCGATGAATGACAGGGCGGCGGCTGCCGGAG
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TCCAGCCCCGTTCTAGATACCGTGTAAACGCTAAGAACTGACCCCTCTCTGCCCGGCCACTTACTG
ACATGGACTCAACCTTGGATTCGTAACAGGCTCCCTTCTGAAAACCAATAATCATATTGGCGTGGGGC
TTCAGTGTGGACTCCCCAGGATTTATCTAACAGTCTCCCTCCAGTGCGGCGGTGGCCGCTCTAGT
TCACTCAGGATCAATCACGCCAATCATACGGGCTCCAATCATACCTACCTGAAAAACACATAACAACAA
CGAAGCTTTCCGAACCCGAAGAGGAACCTCTCCAGCAATTTAAACGGGAGGAGGTGTCCCAACAGGGAG
TTTCAGTGCCCACTACTTGTGATGTTTCTTAACTGCTGCCTGCTATTTTTCTAATACTGGGACTG
ACTTACCTAGGAATGAGAGGGACAGGATATCTGAGGATGGAGAACTCAGCATAGAAAACCCCTTGGTG
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ATTGGCACAGCTTGCAGGAGATCATGAATGTGGCAGTCTAGTCAAAGAACGCTTTCTGTTCAAGAGGCA
GCTGCGTATTTAAAAGATTTAGGTCCTGAATATGAAGGTATATTTAACACTTCATTGCAGTGGATCTTAG
AAAATGGAAAAGATGTTGAATAAGGTGTGTTGGTTTTGGCCCTGAGGAAGAATTGACAAATATAACTGA
TGTGCAGTTTTTACAGTCCACAAGACCACTGATGTCTTTTGGTGTGTTTTCGACGTGCTTTTGTACT
GTAACCTACAGATTATTGTTGTTATGCTTAGGTGTAGTGTGTTTGTGTCGTTCTGCGTTACATGAAAT
ATCGATGGACAAAAGAAGAGGAGGAAACAAGGCAGATGTATGATATGGTGGTAAAGATTATAGATGTTTT
ACGAAGTCATAATGAAGCCTGCCAGGAAAAACAAGATTTACAACCTTACATGCCTATTCCACATGTACGC
GATTCCTTAATACAGCCTCATGACAGGAAAAAATGAAGAAAGTCTGGGATAGAGCTGTTGACTTCTTG
CTGCTAATGAGTCTAGAGTTCGCACGGAACACGAAGAATAGGTGGTGCAGATTTTCTGGTTTGGCGGTG
GATCCAGCCTTCTGCATCCTGTGACAAAATATTAGTTATACCTTCTAAAGTATGGCAAGGTCAAGCATT
CATTTAGATAGAAGAAATTCACCACCAATAGTTTGACACCGTGTCTAAAGATTCCGAATATGTTTGATC
CGTATGGAATAGGGGATCAGTGGCATTGGCAATTAAGAAGCAATTTAGAAAAATGCAGTGATAA
TGATGGCATTGTTACATTGCAGTAGACAAAAATTCACGTGAGGGTTGTGTATATGTTAAATGCTGTCT
CCAGAATATGCTGAAAAGGCTTTTAAAGCATTGCATGGCTCTTGGTTTGTGGAATTTGGTTACAGTAA
AATATTTACGACTAGATAGATACCACCATCGCTTTCCCGAGGCTCTCACTTCCAACACTCCATTGAAGCC
ATCAAATAACATATGAACTCCATGTCTCATCTTCTGCTTCGGACTGGCCTAACCAATTCTCAAGGAAGT
TCCTGA
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_014319 unedited</p> <pre> NGGGTCGGAATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGAGAAAAG GCGGGCGGACGAGCTTCGGCGCCTCAGCAGCTCTCGGATGAGGAGCTTTTCTCTCAGCTC CGCCGTTACGGCTGTCTCCCGGACCAGTGACGGAGAGCACCCGCCCGGTCTACCTCAAG AAGCTGAAGAAGCTTCGAGAGGAAGAGCAGCAACAGCACCCGGTCAGGGGGCCGCGCAAC AAGACGCGGAACAGTAATAACAATAACACGGCAGCCGCCACGGTCGCAGCCGCGGGACCA GCGGCGGCGCGGCCGCGGGGATGGGGTCCGGCCGGTCTCGGGCGACCTCTCCTACTTA CGGACTCCTGGGGCCTGTGCCGAATCTCGGCCTCTGGCCAGAGAGCCTCCTGGGAGGG CCCGGGGGCGCCTCCGCCGCCCGCGGCTGGCAGCAAAGTGCTGCTGGGCTTACGCTCG GACGAGTCGGACGTGGAGGCCAGTCCCCGGGACCAGGCCGGCGGCGGGAGGAAAGAC CGGGCTTCGCTCCAGTACCGGGCTCAAAGCGCCGCGGCGCCCTGGCCGCCAGCGAG GTGACTAACAGCAACTCTGCAGAGCGAAGGAAGCCCACTCGTGGTGGGGGGCCAGGAGG CCGGCGGGCCCGAGCTGCAGACCCCGCGNGAAAGATGGAGCAGTGGAGGACGAAGGA AGGGGAGGAGAGACGGTGAGGAGAGGGACCCGNGAGACCGAGCCGCTCTGGCGGAG CCGGACCGTGAATGGCAGCCGGCTTGCCCTACAGCTGCCGNGAAACTATTTCGNACTC AGAGGAAAGAGACGACGACGACGTGGCCTTACAGACAGGATTTAAAGGACGACTNCCT TTCCGGNCATCGNCCAGACGAN                     </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014319 unedited</p> <pre> ATTTGGCCGCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTAAAACTA ATAAATTTTTAATTAGAATTTTTCTTTTTTTTAAACAGGACAAGTAACAGATTACATCAA ACTTCAGAACTTCTCAAATACCTAGTTATTATACACATTCATCTGTCTTGCAAGGAGG GATCTTGGTCGGCTTAACAGTTTCAGGTAATAAAGCTGCATAATAGTATATATTACAAT AATAAATGTACAATGTTTACATGAAATATGTTTTAGAAGCAAGAAAAAGATGCATCTGCA TCAAAGGCGACCTTTTAAATGCCACAATTTTTTACATTCACCTTGAACAGGTTA CAAGATGGGGTCACTAAGCTCAGATAAATCACTATGATGCACATAAAATACAGGAAGAC TGGTTACTTTATATATTATATATTTATATTTTACACGTTAGCATCTGAGACATAAAC TGAGAATTTAAATTTTCTCTTCAGATAACAAATCATTTTTTATTCTTCATAAAACAAG GTGCCCACAAAAGCACACAGGTAAGGCACAATAGGGCTTCTGTTACAGAATAGTGTGCA TCATGTTTACTTAACCAGAAAACGTGCATTATCTGTGCAAGTTCATGCTGCAAAACCAAC GCATACAATAAAACAAAAGGAAACTGAGCTTTAAATACAACAAAATTTGTACAATTTCC AGCTGTTTCACATATTCATTTGGACTGANCATTATATATCAACAGGTTATTTTTAAAAAGC CAATTGTAGATTACAAGTAAATTTACTCAGCAACTATTTTTATCCTGAATCATAAACAG TNNATAAGTAAGTTTACTGAAACAAATTAATACTTGAGCACANAGCACAGTCCATCGTGC ATTTACTATATTGCAACTTTATGACCCCAATGCAAGTTAATTTGTCAAACACATTTG CTGAA                     </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014319
<b>Insert Size:</b>	4140 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_014319.3](#), [NP\\_055134.2](#)

**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]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).