

## Product datasheet for **SC112996**

### LSM2 (NM\_021177) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | LSM2 (NM_021177) Human Untagged Clone  |
| Tag:                      | Tag Free   |
| Symbol:                   | LSM2   |
| Synonyms:                 | C6orf28; G7B; snRNP; YBL026W   |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>   |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| Fully Sequenced ORF:      | >OriGene ORF within SC112996 sequence for NM_021177 edited (data generated by NextGen Sequencing)<br>ATGCTCTTCTATTCTTTTTTCAAGTCCCTTGTGGGCAAGGATGTGGTCGTGGAACATAAG<br>AATGACCTGAGCATCTGTGGAACCTCCATTCTGTGGATCAGTATCTCAACATCAAATA<br>ACTGACATCAGTGTACAGACCCTGAGAAATACCCTCACATGTTATCAGTGAAGAACTGC<br>TTCATTCGGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTCGACACACAG<br>TTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTGA |

Clone variation with respect to NM\_021177.3



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_021177 unedited</p> <pre>TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTCGCGCTTCGGTTTTCCCA GACCTGCTCGCAGCACCTGTCTTCCCGGTCCGGCCCGCTGCCCGCGGCCAGCAC CATGCTTCTATTCTTTTTTCAAGTCCCTGTGGGCAAGGATGTGGTCGTGAACTAAA GAATGACCTGAGCATCTGTGAAACCCTCATTCTGTGGATCAGTATCTCAACATCAAAT AACTGACATCAGTGTACAGACCCTGAGAAATACCCTCACATGTTATCAGTGAAGAACTG CTTCATTCCGGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTCGACACACA GTTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTGATGGCTCCTCCT CCTCTTCCCTCCTCTTTCATTGGTGACCCATAACCCCAAGTCCCAGCCAGAACCCT AACCCCAATACTGAAGGGGTTTTGTTTTTTTACTAATGATGGTTTTGTGGTTTTTTTT TAAGGGATGAGTGGATGAGAGGAGTAATAGGGAACAGCTATCCTCTTTGAGAAGGGAG GATAAGTAGGCTGNAACTTCAAAGCCTTCCAGTCCCAGCACCTGCCTTTCTACTA CTTCTCTGGAGATGGTANGAGAGTTTCTAGGTCTTCCAGNGCAGCATGTGATTCATT GGNGATGGAANGAATCTGTCCNGCATCGGAATAAAATTTATGATGCANAANAAAAAAA AAACTCGACTCTAGATTGCGCCGCGGTATAGCTGTTTCTGAACAGATCCCGNTGGC ATNCCTGTGACCCTNNCAGTGCCTCCTCGCCCTGNNAAGTGCCTNCAAGTGCACCA GCCTTGTCTATAAAAATAAGTGCATCATTGCTGACTAGTGTCTCATAATATGGTGAGA GGGGGGGGTTTTATTGAACAAGGGGCT</pre>                     |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_021177 unedited</p> <pre>CCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCATCATAAATTTTATTCCCGATG CGGGACAGATTCCTTCCATCCCCAACTAATCACATGCTGCCCTGGAAAGACCTAGGAAA CTCTCCTCCCATCTCCAGAGAACTAGTGAGAAAGGCAGGTGCTGGGGACTGGGAAGGCTT TGAAGTTTCCCAGCCTACTTATCCTCCCTTCTCAAGAGAGGATAGCTGTTCCCTATTAC TCCTCTCATCCACTCATCCCTTAAAAAAACCCACAAAACCATCATTAGTAAAAAAACAA AACCCCTTCAAGTATTGGGGGTTAGGGGTTCTGGGCTGGGACTTGGGGTTATGGGTACC AATGAAAGAGGGAGGGGAAGAGGAGGAGGCCATCACTGTTTCTGCTGCAGGGCTTCT TCCTTGCCGCATCCTGTAGCAACTGTGTGTCGACCTCATCTGCTGGCAGCTGCACGTATC GGACCCTGAGCCCCGAATGAAGCAGTTCTTCACTGATAACATGTGACGGTATTTCTCAA GGTCTGTGACACTGATGTCAGTTAGTTTGTGATGTTGAGATACTGATCCACAGAATGGAGGT TTCCACAGATGCTCAGGTATTCTTTAGTTCCCGACCACATCCTTGCCACAGGCACTT GAAAAAAGATATAATAGCCTGTTGCTGGCGCCGCCACCGGCCCGACCGGTAAACAG CAAGCTGCTGCAACCCGTCTTGGGAACCGAAGCGCGAGCCCTCGTGCCGGATTCGGGGG CCCCCTATAGGAGTNCGTATAAAAATTTTACGGTTACTTAAACGACCTTTGCTTTTTTA GACCTCCACGTACACCCTACCGCCATTGGGTGCACGGCGGGGGTATTACAACCTTTGG GAAGGCCCGTGGATTTGGGGCAACAACCCCTGGCAGCAATGGCGGGAATTGGAATCC CGGGAGCAACCGTTCTCGCCCTTGGGT</pre> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_021177   |
| <b>Insert Size:</b>                 | 780 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\\_021177.3](#), [NP\\_067000.1](#)

**RefSeq Size:** 907 bp

**RefSeq ORF:** 288 bp

**Locus ID:** 57819

**UniProt ID:** [Q9Y333](#)

**Cytogenetics:** 6p21.33

**Domains:** Sm

**Protein Pathways:** RNA degradation, Spliceosome

**Gene Summary:** This gene encodes a member of the LSm family of RNA-binding proteins. LSm proteins form stable heteromers that bind specifically to the 3'-terminal oligo(U) tract of U6 snRNA and may play a role in pre-mRNA splicing by mediating U4/U6 snRNP formation. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 19. [provided by RefSeq, Nov 2011]