

Product datasheet for **SC115451**

LSM4 (NM_012321) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM4 (NM_012321) Human Untagged Clone
Tag: Tag Free
Symbol: LSM4
Synonyms: GRP; YER112W
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_012321 edited
 ATGCTTCCCTTGTCACTGCTGAAGACGGCTCAGAATCACCCATGTTGGTGGAGCTGAAA
 AATGGGGAGACGTACAATGGACACCTGGTGAGCTGCGACAACCTGGATGAACATTAACCTG
 CGAGAAGTCATCTGCACGTCCAGGGACGGGACAAGTTCTGGCGGATGCCCGAGTGTCTAC
 ATCCGCGGCAGCACCATCAAGTACCTGCGCATCCCCGACGAGATCATCGACATGGTCAAG
 GAGGAGGTGGTGGCCAAGGGCCGCGCCGCGGAGGCTGCAGCAGCAGAAGCAGCAGAAA
 GGCCGCGGCATGGGCGGCGCTGGCCGAGGTGTGTTTGGTGGCCGGGGCCGAGGTGGGATC
 CCGGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGACAGGCGGGCAAACAGTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_012321 unedited
 TTGTATACGACTCACTATAGGGCGGCCCGCAATTCGCACGAGGCCTCGTGCCGAATTCG
 GCACGAGGAGCGTGTGCAGCGGCGGCGGGAAGTGGCCGGCAGCCCGTCCCCGCGG
 CACCATGCTTCCCTTGTCACTGCTGAAGACGGCTCANAATCACCCATGTTGGTGGAGCT
 GAAAAATGGGGAGACGTACAATGGACACCTGGTGAGCTGCGACAACCTGGATGAACATTA
 CCTGCGAGAAGTCATCTGCACGTCCAGGGACGGGACAAGTTCTGGCGGATGCCCGAGTG
 CTACATCCGCGGCAGCACCATCAAGTACCTGCGCATCCCCGACGAGATCATCGACATGGT
 CAAGGAGGAGGTGGTGGCCAAGGGCCGCGCCGCGGAGGCCTGCAGCAGCAGAAGCAGCA
 GAAAGGCCGCGGCATGGGCGGCGCTGGCCGAGGTGTGTTTGGTGGCCGGGGCCGAGGTGG
 GATCCCGGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGACAGGCGGGCAAACA
 GTGAGCGCCCACCCAGACCGGCTGCTGCGCCCCCTCCTGCCAGGTGGCGATTCCGCTCC
 ACAGTCTCGGACGGATCTGCTCAAAAGGAAGAGGCAGGCGCCAGGGGAACCCCTTCGTG
 TTTTGTGACCCCTCTTTTAGGTGAAGCCCTTTNTCTTGCTAAAACCGCATTCTNCGTTA
 GAATGTACTTGGTGTNNNTTGGGTTTNGAAACGGCGTCCCAAGCTGGCTGGATTCTAAA
 GNAGTCTGTGGTGGGCATCTTTCAGCCCTCGCTCTGGTCTCAGGCAGCATTTTCAGGCCG
 GGTGTTTTGCATTCTTTGGACCTNNTCGAGCACACCCGACCGGAGATNTTATTTTAGCTG
 TCTGCTGGACTGCACG



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012321 unedited CACGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTAGTATTTATTTGTTT TTATTTCCATAACACAAGAGAGGAAGCGAAGGGCCAGGGCCCGAGGCATCCCCTGCACGG TTCGAAGGCTTTCAACCGTCCCGGGTTTGTGTTGAAGGCAATTTGGGGCCGCGCCAAG GAAACCTGCAGGCTGTCAGTCCCAGCATGAACAGCTTAAATAAAAATCTCCCGTCTGG TTGCTGCTCGGAGAGGCTCCAAGAAATGCAAAAACAAACCCGCCTGGAAAATGCTGCCCTG AGAACCAGAGCGAGGGCTTGAAGATGCCTTCAACACAGACTCTTCTAGGAATCCAGCCA GCTTTGGGACGGCGTTTCACAAAACCAAAAAACCAAGTAACATTTCTAACCGGAGAA TTGCCGGTTTTAGCAAGAAAAAGGGCTTACCTAAAAGGGAGGGTCACAAAACCGAAG GGGGTTCCCCTGGCGCTGCCTCTTCTTCTGAGCAGATCCGTCGAGACTGTGGAGC GGAATCGCCACCCTGGCAGGAGGGGGCGCAGCAGCCGGTCTGGTGGGCGCTCACTGTTT GCCCGCTGTCTGCCAGGCTTCTTCTGCTGGCTGGCCTCTGCTGTGCCGGGATCCCACC TCGGCCCCGGCCACCAACACACCTCGGCCAGCGCCGCCATGCCGCGCCTTTCTGCTG CTTCTGCTGCTGCANGCCTNCGCGCCGCGCCCTTGGCCACCACCTNCTNCTTGACCAT GTCGATGATCTCGTCCGGGATGCCAGTACTTGATGGTCTNNGCGCGATGTACTACTCG GGCATTGNCAGACTTGTCCCGTNCCTGGAGTGCAGAGACTCTCGCAGTTATGTNATN CAGTGTCGCACTCACCAGTGTACTGTACTCTC
Restriction Sites:	NotI-NotI
ACCN:	NM_012321
Insert Size:	1210 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).
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_012321.2 , NP_036453.1
RefSeq Size:	1130 bp
RefSeq ORF:	420 bp
Locus ID:	25804
UniProt ID:	Q9Y4Z0
Cytogenetics:	19p13.11
Domains:	Sm
Protein Families:	Stem cell - Pluripotency

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. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

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