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Product datasheet for SC114972

LSM3 (NM_014463) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSM3 (NM_014463) Human Untagged Clone
Tag:	Tag Free
Symbol:	LSM3
Synonyms:	SMX4; USS2; YLR438C
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

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>OriGene ORF sequence for NM_014463 edited
ATGGCGGACGACGTAGACCAGCAACAAACTACCAACACTGTAGAGGAGCCCCTGGATCTT
ATCAGGCTCAGCCTAGATGAGCGAATTTATGTGAAAATGAGAAATGACCGAGAGCTTCGA
GGCAGATTACATGCTTATGATCAACATTTAAATATGATCTTGGGAGATGTGGAAGAAACT
GTGACTACTATAGAAATTGATGAAGAAACATATGAAGAGATATATAAATCAACGAAACGG
AATATTCCAATGCTCTTTGTCCGGGGAGATGGCGTTGTCCTGGTTGCCCCTCCACTGAGA
GTTGGCTGA
```

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_014463 unedited
GAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGATTGACGTTG
CTCTTGTGTTCTCGCGAGAGGCGGGAAAGGGCGCAGGGTTTGAAACATGGCGGACGACGT
AGACCAGCAACAAACTACCAACACTGTAGAGGAGCCCCTGGATCTTATCAGGCTCAGCCT
AGATGAGCGAATTTATGTGAAAATGAGAAATGACCGAGAGCTTCGAGGCAGATTACATGC
TTATGATCAACATTTAAATATGATCTTGGGAGATGTGGAAGAAACTGTGACTACTATAGA
AATTGATGAAGAAACATATGAAGAGATATATAAATCAACGAAACGGAATATTCCAATGCT
CTTTGTCCGGGGAGATGGCGTTGTCCTGGTTGCCCCTCCACTGAGAGTTGGCTGAAACAA
AGAATTTGTCCTGTATGGAAAACGGGAGACTTTGTACAGTGGCCTCTCTAAAAGTACAAA
ACATTCATAAGAGAAACCTGCATACATTTTGATATTAAGAAATAATTCCGGGGATTCTTC
CACTCCTGAAATGAGTTGATTTGCAGATAACTCACAACTTCTTAAGCTAAATGGTATTTT
CATTTTTCTCAAGCTCTCCAATAAATATGACCACCAAGATGCAAAAAAAAAAAAAAAAAA
CTCGACTCTAGATTGCGGCCGCGGTCATAGCTGTTTCCTGAACAGATCCCGGGTGGCATC
CCTGNTGACCCTCCCCAGTGCCTCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCACCA
GCCTTGGCCTAATAAAATTAAGTGCATCATTTTGTCTGACTAAGGGTNCCTTCTATATAT
ATGGGTGGAGGGGGGGGGNATTGGANCAGGGGGCAGTTGGGAAAACACCT
```


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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014463 unedited
GGACCGGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCATCTTGGTGGTC
ATATTTATTGGAGAGCTTGAGAAAAATGAAATACCATTTAGCTTAAGAAGTTGTGAGTTA
TCTGCAAATCAACTCATTTCAGGAGTGGAAGAATCCCCGGAATTATTTCTTAATATCAAA
ATGTATGCAGGTTTCTCTTATGAATGTTTTGTACTTTTAGAGAGGCCACTGTACAAAGTC
TCCCGTTTTCCATACAGGACAAATTCTTTGTTTCAGCCAACTCTCAGTGGAGGGGCAACC
AGGACAACGCCATCTCCCCGGACAAAGAGCATTGGAATATTCCGTTTCGTTGATTTATAT
ATCTCTTCATATGTTTCTTCATCAATTTCTATAGTAGTCACAGTTTCTTCCACATCTCCC
AAGATCATATTTAAATGTTGATCATAAGCATGTAATCTGCCTCGAAGCTCTCGGTCATTT
CTCATTTTCACATAAATTCGCTCATCTAGGCTGAGCCTGATAAGATCCAGGGGCTCCTCT
ACAGTGTTGGTAGTTTGTTGCTGGTCTACGTCGTCCGCCATGTTTCAAACCCTGCGCCCT
TTCCCGCCTCTCGCGAGAACACAAGAGCAACGTCAATCCCTCGTGCCGAATTCGCGGCCG
CCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATA
GACCTCCCACCGTACACGCCTACCGNCCATTTGCGTCAACGGGGCGGNGTTATTACGACA
TTNTGGAAAGTCCCGTTGATTTTGGTGCCAAAACAAACTCCCATTGACGTCAATGGGGTG
GAGACTTGNAAATCCCCGTGAGTCAAACCGCTATCCACGCCCATTGNTGTACTGCCAAAA
CCGCATCACCATGGNTATAGCGATGACTAATACGTN

Restriction Sites: NotI-NotI

ACCN: NM_014463

Insert Size: 620 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:
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_014463.1, NP_055278.1

RefSeq Size: 579 bp

RefSeq ORF: 309 bp

Locus ID: 27258

UniProt ID: P62310

Cytogenetics: 3p25.1

Domains: Sm

Protein Families: Stem cell - Pluripotency

Protein Pathways: RNA degradation, Spliceosome

Gene Summary: Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family (see SNRPD2; MIM 601061). Sm-like proteins contain the Sm sequence motif, which consists of 2 regions separated by a linker of variable length that folds as a loop. The Sm-like proteins are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing.[supplied by OMIM, Apr 2004]