

Product datasheet for **RC223484**

LSM11 (NM_173491) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSM11 (NM_173491) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LSM11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223484 representing NM_173491 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGCGGGAGCGGGGGCGAGGTCGGCTGGCGCCGGGAGCCCCGCGCGCCCGCCAGCCCGCGGC
 TGGATGTCAGCTCTGACAGCTTCGACCCGCTGCTGGCCCTGTACGCGCCCGCCTGCCTCCCATTCCTA
 CCCCAATGCCCTCTGCTCAACAACGTGGCGGAGTACGAGAGCTTCCTCAGGACCGGAGTCCGGGGCGGC
 GGGCGCGGGCGGGCGAGCTCGGGGCGCGGCCGCGGGCTCTGGGTTCCCGCCGACCCGGGCCCTCGG
 GCAGGACTCGTCGCCGCCGACGCGCCCGCCGACCCGAGCGCATCCAGCGCCTCCGCCGTCTCAT
 GGTGGCCAAAGAGGAAGGGGACGGGGCCGAGGAGCGGGCCGAGGGGTCCGGGTCGGAGCAGGAAGGCG
 CCACGCAACGTGCTCACGCGAATGCCCTTGACGAAGGCAGCCCTCTGGGTGAATCCATCGCTGTATCC
 GTGAGGGGTGAAGGTGAATGTTACATCCGCACTTTCAAGGACTTCGGGGCGTCTGTACAGGCTTCT
 TGTTCATTGACAAGTTCTGGAATATGGCACTTACTGATGTGGACGAGACCTACCGAAAACCTGTCCTA
 GGCAAAGCATATGAACGGGATTCTTCACTGACTCTCACTAGGCTATTTGATCGGCTGAAACTTCAAGATT
 CCTCAAGAAGGAAGCAGATTCTAAGTCTGCAGTTGAAGATTCCACTCTGTCTAGATACTCACAGACATC
 CACTTGGAAGTTGGCTTCAGTGTGGGAAGAGCAGACTGGCCGGGGCTCACACAAGCGTTCCCGCTCT
 GTCCCTTCTTCCCTGCAGGCCTCTGCAAGGGAGGAGTCCAGGTACAGCTGTGAGGAGGACTACACGGA
 CAGACGGCTCCAGTGTGGGAGGTACCTTTTCCAGGGCTACCACTTTCCAGAGGCCAGTCCCGTAAGAA
 AAAGCGAAAGCCCAAAGTGGATTACCAGCAGGTATTCACTCGACACATAAATCAGATTTTCATTGAGGC
 GAGAATGTCCTGCTGTTTCATCTTGACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC223484 representing NM_173491
 Red=Cloning site Green=Tags(s)

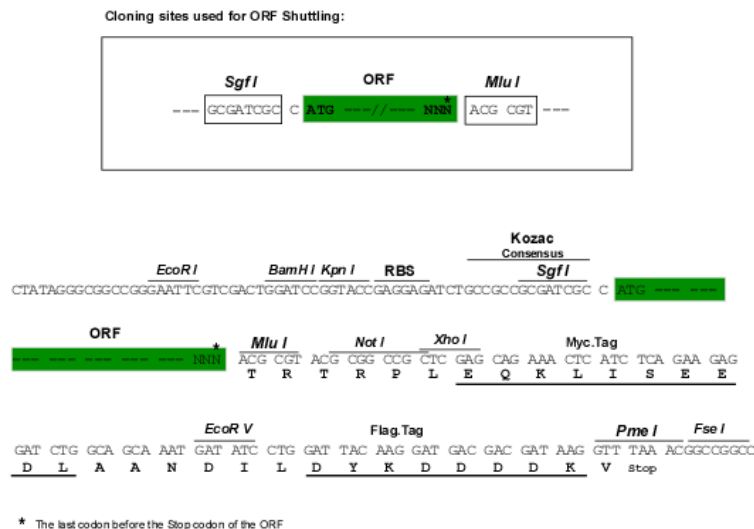
MEERERGARSAGAGSPARPPSPRLDVSSDSFDPLLALYAPRLPPIYPNAPCFNNVAEYESFLRTGVRGG
 GRGRGRARGAAAGSGVPAAPGPSGRTRRRPDAPAPDPERIQRLRLMVAKEEGDGAAGAGRRGPGRSRKA
 PRNVLTRMPLHEGSPLGELHRCIREGVKNVHIRTFKGLRGVCTGFLVAFDKFWMALTDVDETYRKPVL
 GKAYERDSSLTLTRLFDRLKLQDSSKKEADSKSAVEDSTLSRYSTQSTWKLASVWGRADTGRGSHKRSRS
 VPSSLQASAREESRSELSGRTRTRTDGSSVGGTFSRATTL SRGQSRKKKRPKVDYQQVFTRHINQIFIRG
 ENVLLVHLAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1938_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173491

ORF Size: 1080 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173491.2](#), [NP_775762.1](#)

RefSeq Size: 2563 bp

RefSeq ORF: 1083 bp

Locus ID: 134353

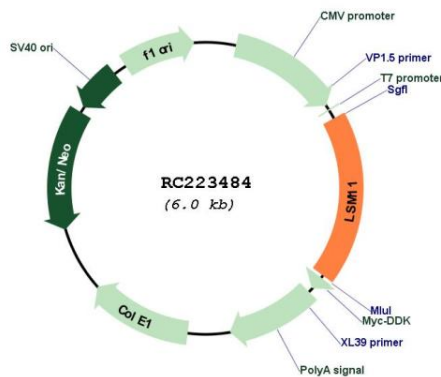
UniProt ID: [P83369](#)

Cytogenetics: 5q33.3

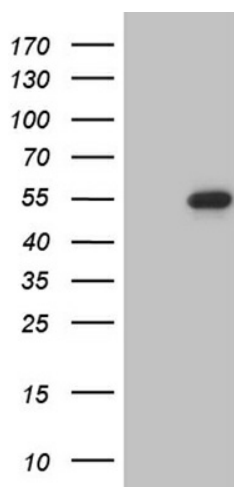
MW: 39.3 kDa

Gene Summary: Component of the U7 snRNP complex that is involved in the histone 3'-end pre-mRNA processing (By similarity). Increases U7 snRNA levels but not histone 3'-end pre-mRNA processing activity, when overexpressed. Required for cell cycle progression from G1 to S phases. Binds specifically to the Sm-binding site of U7 snRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223484



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LSM11 (Cat# RC223484, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LSM11 (Cat# [TA810004])(1:2000). Positive lysates [LY403564] (100ug) and [LC403564] (20ug) can be purchased separately from OriGene.