

# Product datasheet for RC201769

### LSM4 (NM\_012321) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

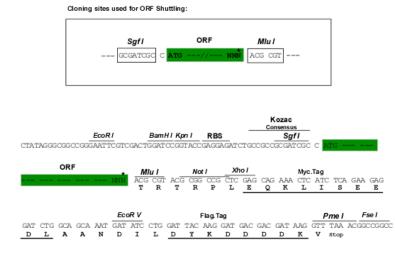
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	LSM4 (NM_012321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LSM4
Synonyms:	GRP; YER112W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC201769 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCTTCCCTTGTCACTGCTGAAGACGGCTCAGAATCACCCCATGTTGGTGGAGCTGAAAAATGGGGAGA CGTACAATGGACACCTGGTGAGCTGCGACAACTGGATGAACATTAACCTGCGAGAAGTCATCTGCACGTC CAGGGACGGGGACAAGTTCTGGCGGATGCCCGAGTGCTACATCCGCGGCAGCACCATCAAGTACCTGCGC ATCCCCGACGAGATCATCGACATGGTCAAGGAGGAGGTGGTGGCCAAGGGCCGCGGCGGCGGGGGCCTGC AGCAGCAGAAGCAGCAGAAAGGCCGCGGCGATGGCCGGCGCGCGGCGGGGCGGGGCCG AGGTGGGATCCCGGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGACAGGCGGGCAAACAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC201769 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MLPLSLLKTAQNHPMLVELKNGETYNGHLVSCDNWMNINLREVICTSRDGDKFWRMPECYIRGSTIKYLR IPDEIIDMVKEEVVAKGRGRGGLQQQKQQKGRGMGGAGRGVFGGRGRGGIPGTGRGQPEKKPGRQAGKQ
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6125_c06.zip
<b>Restriction Sites:</b>	Sgfl-Mlul



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#### **Cloning Scheme:**



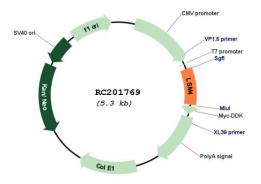
\* The last codon before the Stop codon of the ORF

ACCN:	NM_012321
ORF Size:	417 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. <u>More info</u>
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:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 012321.5</u>
RefSeq Size:	1825 bp
RefSeq ORF:	420 bp
Locus ID:	25804
UniProt ID:	<u>Q9Y4Z0</u>

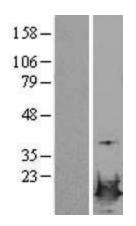
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	4 (NM_012321) Human Tagged ORF Clone – RC201769
Cytogenetics:	19p13.11
Domains:	Sm
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	RNA degradation, Spliceosome
MW:	15.3 kDa
Gene Summary:	This gene encodes a member of the LSm family of 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]

## **Product images:**



Circular map for RC201769



Western blot validation of overexpression lysate (Cat# [LY402199]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201769 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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