

Product datasheet for **RC235824**

LSM4 (NM_001252129) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM4 (NM_001252129) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LSM4
Synonyms: GRP; YER112W
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235824 representing NM_001252129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTGGTGGAGCTGAAAAATGGGAGACGTACAATGGACACCTGGTGGCTGCGACAACCTGGATGAACA
 TTAACCTGCGAGAAGTCATCTGCACGTCCAGGGACGGGACAAGTTCTGGCGGATGCCCGAGTGCTACAT
 CCGCGGCAGCACCATCAAGTACCTGCGCATCCCGACGAGATCATCGACATGGTCAAGGAGGAGGTGGT
 GCCAAGGGCCGCGCCGCGGAGGCCTGCAGCAGCAGAAGCAGCAGAAAGCCGCGCATGGCGCGCGCTG
 GCCGAGGTGTGTTTGGTGGCCGGGCGGAGGTGGGATCCCGGCACAGGCAGAGGCCAGCAGAGAAGAA
 GCCTGGCAGACAGGCGGGCAAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235824 representing NM_001252129
 Red=Cloning site Green=Tags(s)

MLVELKNGETYNGHLVSCDNWMNINLREVICTSRDGDKFWRMPECYIRGSTIKYLRIPEIIDMVKEEVV
 AKGRGRGGLQQKQKQKGRGMGGAGRGVFGGRGRGGIPGTGRGQPEKKPGRQAGKQ

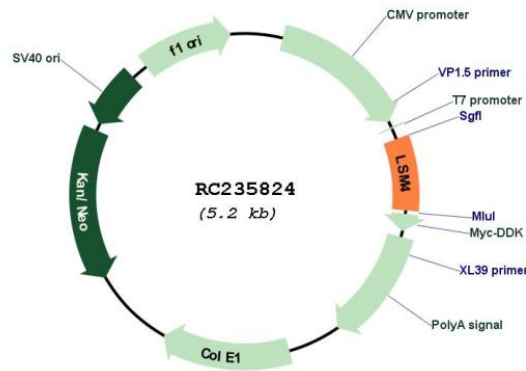
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:

ACCN:

NM_001252129

ORF Size:

375 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:	<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_001252129.2
RefSeq Size:	1783 bp
RefSeq ORF:	378 bp
Locus ID:	25804
Cytogenetics:	19p13.11
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	RNA degradation, Spliceosome
MW:	14.3 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]