

Product datasheet for **RG201769**

LSM4 (NM_012321) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM4 (NM_012321) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LSM4
Synonyms: GRP; YER112W
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201769 representing NM_012321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCCTTGTACTGCTGAAGACGGCTCAGAATCACCCCATGTTGGTGGAGCTGAAAAATGGGGAGA
CGTACAATGGACACCTGGTGAGCTGCGACAACCTGGATGAACATTAACCTGCGAGAAGTCATCTGCACGTC
CAGGGACGGGGACAAGTTCTGGCGGATGCCCGAGTGCTACATCCGCGGCAGCACCATCAAGTACCTGCGC
ATCCCCGACGAGATCATCGACATGGTCAAGGAGGAGTGGTGGCCAAGGGCCGCGCCGGAGGCGCTGC
AGCAGCAGAAGCAGCAGAAAGGCCGCGCATGGGCGGCGCTGGCCGAGGTGTGTTTGGTGGCCGGGGCCG
AGGTGGGATCCCGGCACAGGCAGAGGCCAGCCAGAGAAGAAGCCTGGCAGACAGCGGGCAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201769 representing NM_012321
Red=Cloning site Green=Tags(s)

MLPLSLLKTAQNHPMLVELKNGETYNGHLVSCDNWMNINLREVICTSRDGDKFWRMPECYIRGSTIKYLR
IPDEIIDMVKEEVVAKGRGRGGLQQKQKQKGRGMGGAGRVFVGGRRGGIPGTGRGQPEKKPGRQAGKQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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. [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.

RefSeq: [NM_012321.5](#)

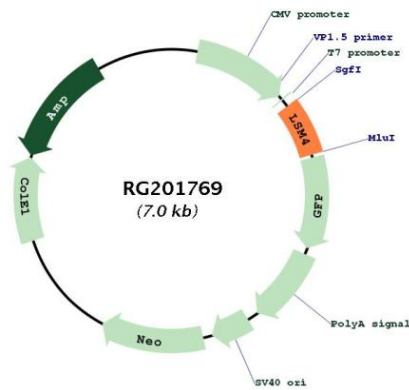
RefSeq Size: 1130 bp

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]

Product images:



Circular map for RG201769