

Product datasheet for **RG200288**

LSM1 (NM_014462) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM1 (NM_014462) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LSM1
Synonyms: CASM; YJL124C
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200288 representing NM_014462
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACTATATGCCTGGCACCAGCCAGCCTCATCGAGGACATTGACAAAAAGCACTTGGTTCTGCTTCGAG
ATGGAAGGACACTTATAGGCTTTTTAAGAAGCATTGATCAATTTGCAAAGTCTAGTGCTACATCAGACTGT
GGAGCGTATTCATGTGGCAAAAAATACGGTGATTCCTCGAGGGATTTTGTGGTCAGAGGAGAAAAT
GTGGTCTACTAGGAGAAATAGACTTGGAAAAGGAGAGTGACACACCCCTCCAGCAAGTATCCATTGAAG
AAATTCTAGAAGAACAAAGGGTGAACAGCAGACCAAGCTGGAAGCAGAGAAGTTGAAAGTGCAGGCCCT
GAAGGACCGAGGTCTTTCCATTCCTCGAGCAGATACTCTTGATGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200288 representing NM_014462
Red=Cloning site Green=Tags(s)
MNYMPGTASLIEDIDKKHLVLLRDGRTLIGFLRSIDQFANLVLHQTVERIHVGKKYGDIPRGIFVVRGEN
VLLLGEIDLEKESDTPQQVSIEEILEEQRVEQQTKLEAEKLVQALKDRGLSIPRADTLDEY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_014462

ORF Size: 399 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.

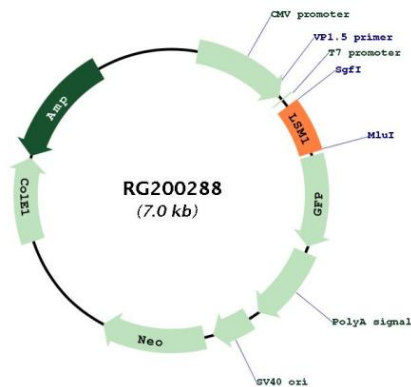
RefSeq: [NM_014462.3](#)

RefSeq Size: 935 bp

RefSeq ORF: 402 bp

Locus ID: 27257
UniProt ID: [O15116](#)
Cytogenetics: 8p11.23
Protein Families: Stem cell - Pluripotency
Protein Pathways: RNA degradation
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. Increased expression of this gene may play a role in cellular transformation and the progression of several malignancies including lung cancer, mesothelioma and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG200288