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 datasheet for RC203562

LSM10 (NM_032881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSM10 (NM_032881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LSM10
Synonyms:	MST074; MSTP074
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203562 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGAGCCATTCAGTGAAGGAGCGGACCATCTCTGAGAACAGCCTGATCATCCTACTGCAGGGCC
TCCAGGGCCGGGTAACCACTGTGGACCTGCGGGATGAGAGCGTGGCCCACGGACGCATAGACAATGTCGA
TGCTTTCATGAACATCCGCCTGGCCAAAGTCACCTACACGGACCGTTGGGGGCATCAGGTCAAGCTGGAT
GACCTCTTTGTGACAGGCCGCAATGTCCGCTACGTCCACATCCCAGATGACGTGAACATCACCTCGACCA
TTGAGCAGCAGCTGCAGATTATCCATCGGGTGCGAAACTTTGGTGGCAAGGGCCAAGGCCGGTGGGAATT
TCCCCCAAAAAACTGTAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203562 protein sequence
Red=Cloning site Green=Tags(s)

MAVSHSVKERTISENSLIILLQGLQGRVTTVDLRDESVAHGRIDNVDAFMNIRLAKVTYTDRWGHQVKLD
DLFVTGRNVRYVHIPDDVNITSTIEQQLQIIHRVRNFGGKGQGRWEFPPKNCK

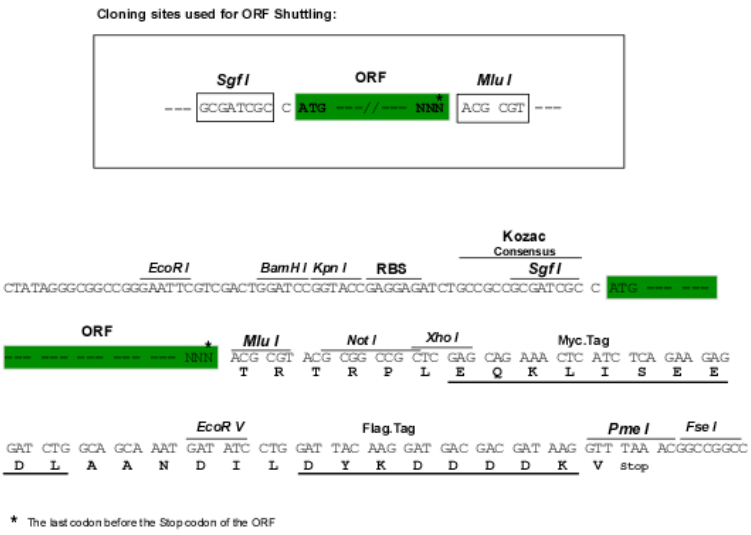
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6078_a06.zip

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_032881

ORF Size: 369 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_032881.3

RefSeq Size: 869 bp

RefSeq ORF: 372 bp

Locus ID: 84967

UniProt ID: Q969L4

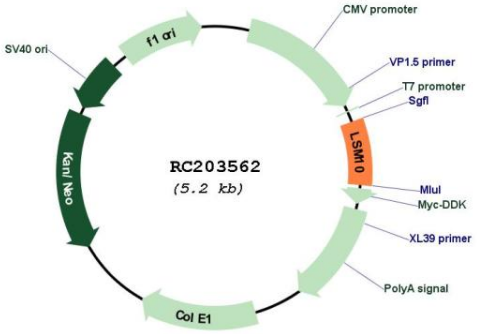
Cytogenetics: 1p34.3

Domains: Sm

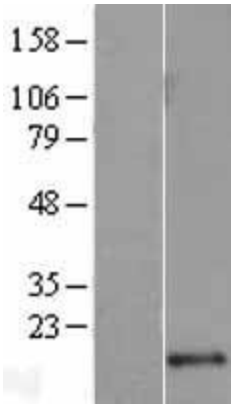
MW: 14.1 kDa

Gene Summary: Appears to function in the U7 snRNP complex that is involved in histone 3'-end processing. 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 U7 snRNA. Binds to the downstream cleavage product (DCP) of histone pre-mRNA in a U7 snRNP dependent manner.[UniProtKB/Swiss-Prot Function]

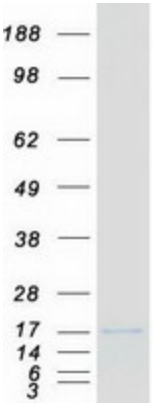
Product images:



Circular map for RC203562



Western blot validation of overexpression lysate (Cat# [LY403211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LSM10 protein (Cat# [TP303562]). The protein was produced from HEK293T cells transfected with LSM10 cDNA clone (Cat# RC203562) using MegaTran 2.0 (Cat# [TT210002]).