

Product datasheet for **RC203266**

LSM5 (NM_012322) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM5 (NM_012322) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LSM5
Synonyms: YER146W
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203266 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCTAACGCTACTACCAACCGTCGCAGCTGCTGCCGTTAGAGCTTGTGGACAAATGTATAGGAT
 CAAGAATTCACATCGTGATGAAGAGTGATAAGGAAATTGTTGGTACTCTTCTAGGATTTGATGACTTTGT
 CAATATGGTACTGGAAGATGTCAGTGTGAAATCACACCAGAAGGAAGAAGGATTACTAAATTAGAT
 CAGATTTTGCTAAATGGAATAATATAACAATGCTGGTTCCTGGAGGAGAAGGACCTGAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203266 protein sequence
 Red=Cloning site Green=Tags(s)
 MAANATTNPSQLLPLELVDKCIGSRIHIVMKSDKEIVGTLLGFDDFVNMVLEDVTEFEITPEGRRITKLD
 QILLNGNNITMLVPGGEGPEV

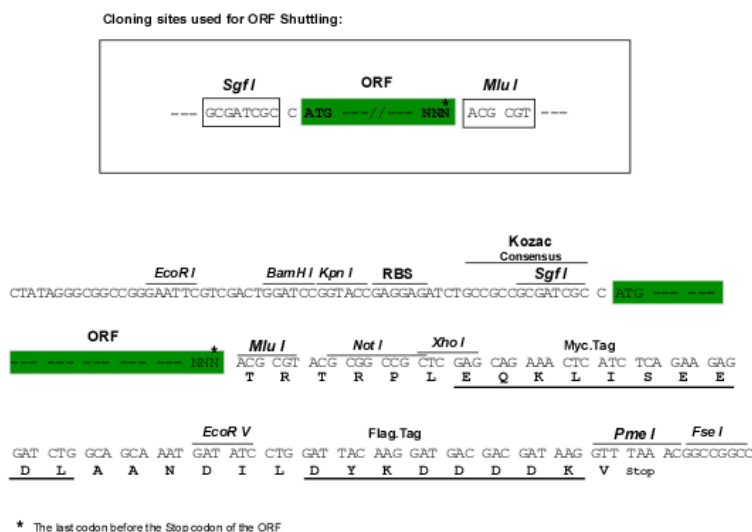
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6416_f12.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_012322

ORF Size: 273 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_012322.1](#), [NP_036454.1](#)

RefSeq Size: 2275 bp

RefSeq ORF: 276 bp

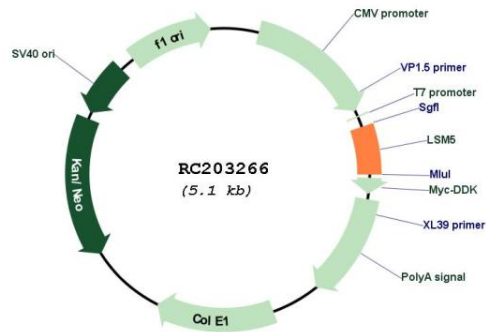
Locus ID: 23658

UniProt ID: [Q9Y4Y9](#)
Cytogenetics: 7p14.3
Domains: Sm
Protein Families: Stem cell - Pluripotency
Protein Pathways: RNA degradation, Spliceosome

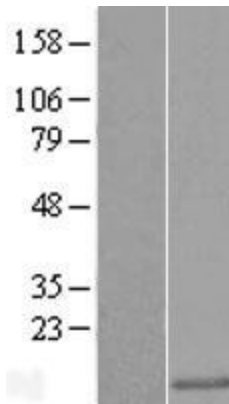
MW: 9.9 kDa

Gene Summary: Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family (see SNRPD2; MIM 601061). Sm-like proteins contain the Sm sequence motif, which consists of 2 regions separated by a linker of variable length that folds as a loop. The Sm-like proteins are thought to form a stable heteromer present in tri-snRNP particles, which are important for pre-mRNA splicing.[supplied by OMIM, Apr 2004]

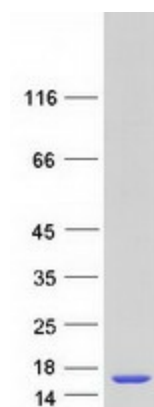
Product images:



Circular map for RC203266



Western blot validation of overexpression lysate (Cat# [LY415800]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203266 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LSM5 protein (Cat# [TP303266]). The protein was produced from HEK293T cells transfected with LSM5 cDNA clone (Cat# RC203266) using MegaTran 2.0 (Cat# [TT210002]).