

Product datasheet for **RC205835**

LSM7 (NM_016199) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LSM7 (NM_016199) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: LSM7
Synonyms: YNL147W
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205835 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATAAGGAGAAGAAGAAAAGGAGAGCATCTTGGACTTGCCAAGTACATCGACAAGACGATCC
GGGTAAAGTTCAGGGAGGCCGGAAGCCAGTGGATCCTGAAGGGTTCGACCCACTCTCAACCTTGT
GCTGGACGGCACCATTGAGTACATGCGAGACCCTGACGACCAGTACAAGCTCACGGAGGACACCCGGCAG
CTGGGCCCTCGTGGTGTGCCGGGCACGTCCGTGGTGCTAATCTGCCCGCAGGACGGCATGGAGGCCATCC
CCAACCCCTTCATCCAGCAGCAGGACGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205835 protein sequence
Red=Cloning site Green=Tags(s)
MADKEKKKESILDLSKYIDKTIKVFQGGREASGILKGFDPDLLNLVLDGTIEYMRPDDQYKLTEDTRQ
LGLVVCRGTSVVLICPQDGMEAIIPNPFIQQDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6433_h09.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_016199

ORF Size: 309 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_016199.3](#)

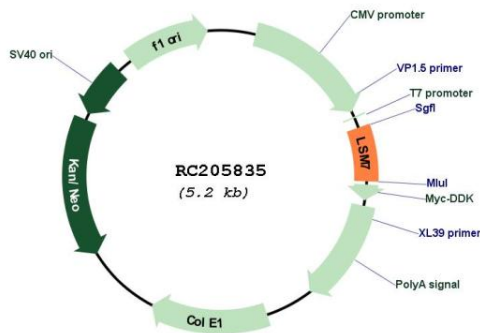
RefSeq Size: 536 bp

RefSeq ORF: 312 bp

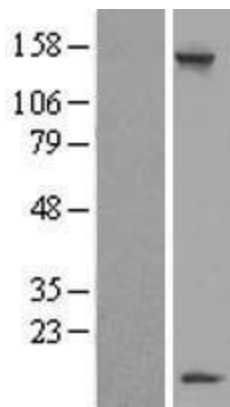
Locus ID: 51690

UniProt ID: [Q9UK45](#)
Cytogenetics: 19p13.3
Domains: Sm
Protein Families: Stem cell - Pluripotency
Protein Pathways: RNA degradation, Spliceosome
MW: 11.6 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]

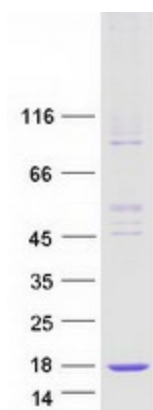
Product images:



Circular map for RC205835



Western blot validation of overexpression lysate (Cat# [LY414131]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205835 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LSM7 protein (Cat# [TP305835]). The protein was produced from HEK293T cells transfected with LSM7 cDNA clone (Cat# RC205835) using MegaTran 2.0 (Cat# [TT210002]).