

Product datasheet for **RC225784**

LSM14A (NM_001114093) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSM14A (NM_001114093) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LSM14A
Synonyms:	C19orf13; FAM61A; RAP55; RAP55A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC225784 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGGGGGCACCCCTTACATCGGCAGCAAGATCAGCCTCATCTCCAAGGCGGAGATCCGCTACGAGG
 GCATCCTCTACACCATCGACACCGAAAACTCCACCGTAGCCCTTGCCAAAGTTTCATCCTTTGGTACAGA
 AGACAGACCGACAGATCGTCCAATACCACCTCGAGATGAAGTCTTTGAATACATTATATTCGGTGGGAGT
 GACATTAAGACCTTACTGTTTGTGAGCCACAAAACACAGTGTCTTTGCCTCAAGACCCAGCTATTG
 TTCAGTCTCTACTAGGCTCATCGACTTCTTCATTCCAGTCCATGGGTCTTATGGACCTTTCGGCAGGAT
 GCCCACATACAGTCAGTTCAGTCCGAGTTCCTTAGTTGGGCAGCAGTTTGGTGCTGTTGGTGTGCTGGA
 AGCTCTTTGACATCCTTTGGAACAGAAACATCAAACAGTGGTACCTTACCCCAAAGTAGTGGGTTGGTT
 CTGCCCTTACACAGGATACAAGATCTCTAAAAACACAGTTATCTCAAGGTCGCTCAAGCCCTCAGTTAGA
 CCCTTTGAGAAAAAGCCCAACCATGGAACAAGCAGTGCAGACCGCCTCAGCCCACTTACCTGCTCCAGCA
 GCTGTTGGGAGAAGGAGTCTGTATCAACCAGGCCTTTGCCATCTGCCAGCCAAAAGGCAGGAGAGAATC
 AGGAGCACAGGCGAGCTGAAGTACACAAAGTTTCAAGGCCAGAAAATGAGCAACTCAGAAATGATAACAA
 GAGACAAGTAGCTCCAGGTGCTCCTTCAGCTCCAAGGAGAGGGCGTGGGGGTTCATCGGGGTGGCAGGGGA
 AGATTTGGTATTCGGCGAGATGGGCAATGAAATTTGAGAAAGACTTTGACTTTGAAAGTGCAATGCAC
 AATTCAACAAGGAAGAGATTGACAGAGAGTTTCATAATAAACTTAAATTTAAAGAAGATAAACTTGAGAA
 ACAGGAGAAGCCTGTAATGGTGAAGATAAAGGAGACTCAGGAGTTGATACCCAAACAGTGAAGGAAAT
 GCCGATGAAGAAGATCCACTTGGACCTAATTGCTATTATGACAAAATAAATCCTTCTTTGATAATATTT
 CTTGTGATGACAATAGAGAACGGAGACCAACCTGGGCTGAAGAAAGAAGATTAATGCTGAAACATTTGG
 AATCCCACTTCGTCCAAACCGTGGCCGTGGGGGATACAGAGGCAGAGGAGTCTTGGTTTCCGTGGTGGC
 AGAGGGCGTGGTGGTGGCAGAGGTGCTACCTTCACTGCCCTCGAGGATTCGCGGTGGATTGAGAGGAG
 GTCGTGGGGGCCGGGAGTTTGGGATTTGAATATAGGAAAGACAACAAAGTTGCTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC225784 protein sequence
 Red=Cloning site Green=Tags(s)

MSGGTPYIGSKISLISKAEIRYEGILYITIDTENSTVALAKVRSFGTEDRPTDRPIPPRDEVFEYIIFRGS
 DIKDLTVCEPPKPQCSLPQDPAIVQSSLSSTSSFSQSMGSYGPFGRMPTYSQFSPSSLVGQQFGAVGVAG
 SSLTSFGTETSNSGTLPSQSSAVGSAFTQDTRSLKTQLSQGRSSPQLDPLRKSPTEQAVQTASAHLPA
 AVGRRSPVSTRPLPSASQKAGENQEHRAEVHKVSRPENEQLRNDNKRQVAPGAPSAPRRGRGGHRRGGRG
 RFGIRRDGPMKFEKDFDFESANAQFNKEEIDREFHNKLLKEDKLEKQEKPVNGEDKGDGSDVTQNSEGN
 ADEEDPLGPNCYYDKTSFFDNISCDNRERRPTWAEERRLNAETFGIPLRPNRGRGGYRGRGGLGFRGG
 RGRGGGRGGTFTAPRGFRGGFRGGGREFADFEYRKDNKVAA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6309_h12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001114093

ORF Size: 1389 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_001114093.1](#), [NP_001107565.1](#)

RefSeq Size: 3772 bp

RefSeq ORF: 1392 bp

Locus ID: 26065

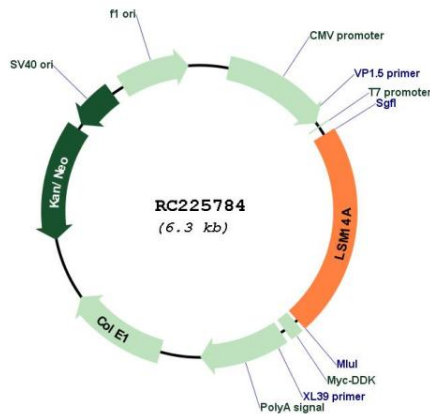
UniProt ID: [Q8ND56](#)

Cytogenetics: 19q13.11

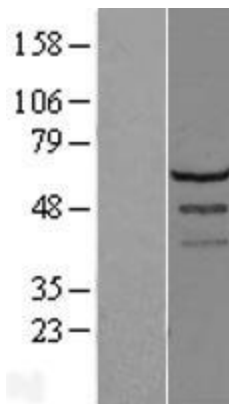
MW: 50.6 kDa

Gene Summary: Sm-like proteins were identified in a variety of organisms based on sequence homology with the Sm protein family (see SNRPD2; 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, Mar 2008]

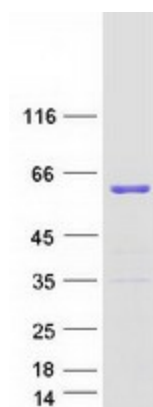
Product images:



Circular map for RC225784



Western blot validation of overexpression lysate (Cat# [LY426447]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225784 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LSM14A protein (Cat# [TP325784]). The protein was produced from HEK293T cells transfected with LSM14A cDNA clone (Cat# RC225784) using MegaTran 2.0 (Cat# [TT210002]).