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 MG200745

Lsm2 (BC049543) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lsm2 (BC049543) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lsm2
Synonyms:	Sm-X5, G7b, SmX5, snRNP, MGC13889
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

```
>MG200745 representing BC049543
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTTTTGGGGGAAACCTTTAGCAAGTCCAAGAGAAAGCCCACGGGCGCCGGGGGAGAACGGGAAGC
GAGCCTTGCACTTCTGTGCTGTTGACGAGGACTTTGTGAGGCTCTTCTACTCCTTTTTCAAGTCTCTTGT
GGGCAAGGATGTAGTCGTGGAACTCAAGAATGACCTGAGCATCTGTGGAACCCTCCACTCTGTGGACCAG
TACCTCAATATCAAACTAACCGACATCAGTGTCACAGACCCTGAGAAATACCCTCACATGTTATCAGTCA
AGAACTGCTTCATCAGGGGCTCAGTCGTCCGCTATGTGCAGCTGCCAGCAGATGAGGTGGACACACAACT
GCTACAGGATGCAGCAAGGAAGGAAGCCCTTCAGCAGAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag -  GTTTAA
```

Protein Sequence:

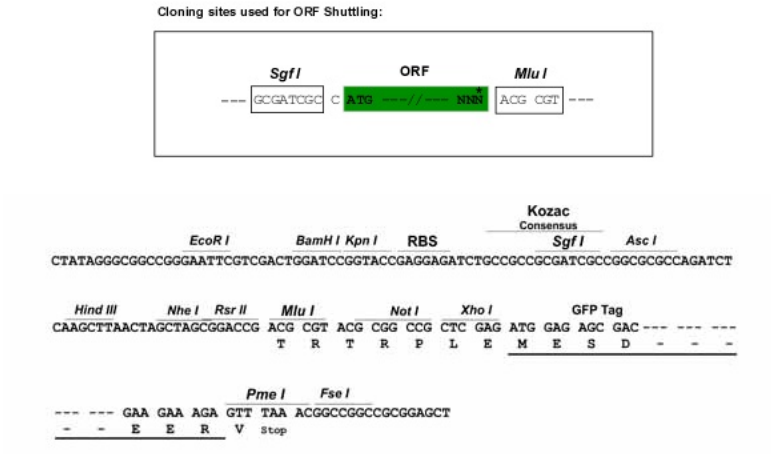
```
>MG200745 representing BC049543
Red=Cloning site Green=Tags(s)

MVFWGKPLASPRESPRAPGENGKRALHFCAVDEDFVRLFYSFFKSLVGKDVVVELKNDLSICGTLHSVDQ
YLNIKLTDISVTDPEKYPHMLSVKNCFIRGSVVRYVQLPADEVDTQLLQDAARKEALQQKQ

TRTRPLE - GFP Tag -  V
```

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

Cloning Scheme:

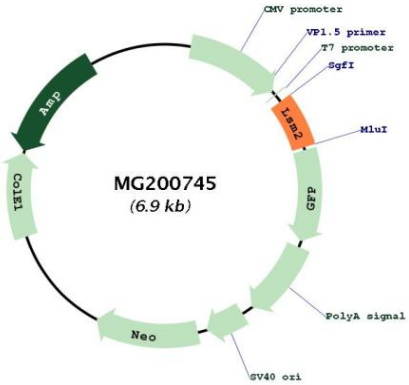


ACCN:	BC049543
ORF Size:	395 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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:	BC049543, AAH49543
RefSeq Size:	1090 bp
RefSeq ORF:	395 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Locus ID:	27756
Cytogenetics:	17 18.52 cM
Gene Summary:	Plays role in pre-mRNA splicing as component of the U4/U6-U5 tri-snRNP complex that is involved in spliceosome assembly, and as component of the precatalytic spliceosome (spliceosome B complex). The heptameric LSM2-8 complex binds specifically to the 3'-terminal U-tract of U6 snRNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG200745

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US