

## 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGTTTTGGGGAAACCTTTAGCAAGTCCAAGAGAAAGCCACGGGCGCCGGGGGAGAACGGGAAGC  
 GAGCCTTGCACTTCTGTGCTGTTGACGAGGACTTTGTGAGGCTTCTACTCCTTTTTCAAGTCTTTGT  
 GGGCAAGGATGTAGTCGTGGAACCAAGAATGACCTGAGCATCTGTGGAACCTCCACTCTGTGGACCAG  
 TACCTCAATCAAACAACCGACATCAGTGTACAGACCCTGAGAAATACCCTCACATGTTATCAGTCA  
 AGAACTGCTTCATCAGGGGCTCAGTCGTCGCTATGTGCAGCTGCCAGCAGATGAGGTGGACACACAAC  
 GCTACAGGATGCAGCAAGGAAGGAAAGCCCTTCAGCAGAAGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200745 representing BC049543  
 Red=Cloning site Green=Tags(s)  
 MVFWGKPLASPRESPRAGENGKRALHFCVDEDFVRLFYSFFKSLVGDVVVELKNDLSICGTLHSVDQ  
 YLNIKLTDISVTDPEKYPHMLSVKNCFIRGSVRYVQLPADEVDTQLLQDAARKEALQQKQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

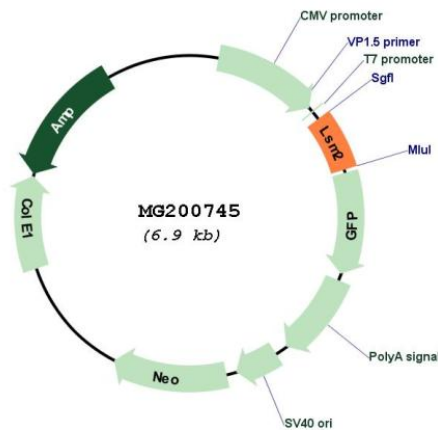


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Cloning Scheme:



Plasmid Map:



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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC049543</a> , <a href="#">AAH49543</a>
<b>RefSeq Size:</b>	1090 bp
<b>RefSeq ORF:</b>	395 bp
<b>Locus ID:</b>	27756
<b>Cytogenetics:</b>	17 18.52 cM
<b>Gene Summary:</b>	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]