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# Product datasheet for MC225557

## Lsm2 (NM_001204273) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Lsm2 (NM_001204273) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Lsm2 |
| **Synonyms:** | D17H6S56E-2; D17H6S56E2; Dmapl; Dmpkap; G7b; Sm-X5; SmX5; snRNP |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >MC225557 representing NM_001204273<br>Red=Cloning site Blue=ORF Orange=Stop codon<br><br>TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCCGCGATCGCC<br><br>ATGGTGTTTTGGGGGAAACCTTTAGCAAGTCCAAGAGAAAGCCCACGGGCGCCGGGGGAGAACGGGAAGC<br>GAGCCTTGCACTTCTGTGCTGTTGACGAGGACTTTGTGAGGCTCTTCTACTCCTTTTTCAAGTCTCTTGT<br>GGGCAAGGATGTAGTCGTGGAACTCAAGAATGACCTGAGAACTCACAGATGCTGCCTGCAGGCCTCAGCA<br>TCTGTGGAACCCTCCACTCTGTGGACCAGTACCTCAATATCAAACTAA<br><br>ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br>ACAAGGATGACGACGATAAGGTTTAA |
| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001204273 |
| **Insert Size:** | 258 bp |
| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |

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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_001204273.1, NP_001191202.1 |
| **RefSeq Size:** | 901 bp |
| **RefSeq ORF:** | 258 bp |
| **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]<br>Transcript Variant: This variant (3) includes an alternate internal exon, which results in a frameshift, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. |

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