

Product datasheet for **MG200855**

Lsm4 (NM_015816) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lsm4 (NM_015816) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lsm4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200855 representing NM_015816
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTCCCTTGTGCTGCTGAAGACAGCGCAGAATCACCCCATGCTGGTGGAGCTGAAGAATGGGAGA
 CGTACAACGGGCATCTGGTGAGCTGTGACAACTGGATGAACATCAACCTCCGGGAGGTGATCTGCACGTC
 GCGGGATGGTGACAAGTTCTGGAGGATGCCTGAGTGCTACATCCGTGGCAGCACCATCAAGTATCTGCGC
 ATCCCTGATGAGATCATTGACATGGTGCGGGAGGAGCCGCCAAGGGCCGAGGGCAGGAGGACCCGAGC
 AGCAGAAGCAGCAGAAAGGCCGAGGCATGGCGGCGCTGGCCGAGGTGTGTTGGTGGCCGGGGCCGGGG
 TGGCATCCAGGTGCAGGCCGAGGCCAGCCCGAGAAGAAGCCAGGGCGGCAGGCAGGCAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200855 representing NM_015816
 Red=Cloning site Green=Tags(s)

MLPLSLLKTAQNHPMLVELKNGETYNGHLVSCDNWMNINLREVICTSRDGDKFWRMPECYIRGSTIKYLR
 IPDEIIDMVREEAAKGRGRGGPQQKQKQKGRGMGAGRGVFGGRGRGGIPGAGRGQPEKKPGRQAGKQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

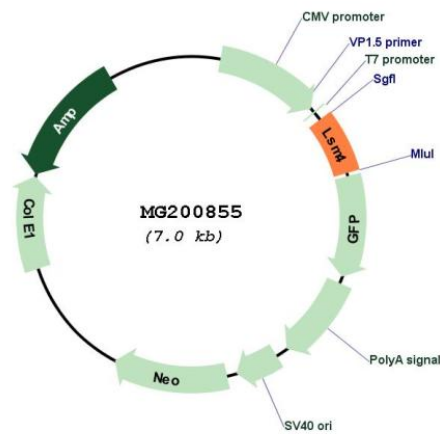


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Cloning Scheme:



Plasmid Map:



ACCN: NM_015816

ORF Size: 411 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:	<ol style="list-style-type: none">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:	<u>NM_015816.1</u> , <u>NP_056631.1</u>
RefSeq Size:	791 bp
RefSeq ORF:	417 bp
Locus ID:	50783
UniProt ID:	<u>Q9QXA5</u>
Cytogenetics:	8 B3.3
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]