

## Product datasheet for **MG216351**

### Lsm10 (NM\_138721) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Tag:** TurboGFP  
**Symbol:** Lsm10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG216351 representing NM\_138721  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACTGAGCCACTCGGTGAAGGAGCGAACTATTTCTGAGAACAGCCTGATCATCCTGTTGCAGGGCC  
TCCAAGCCAAATAACCACTGTGGACCTTCGGGATGAGAGTGTGGCCGAGGACGCATTGACAACGTGGA  
TGCTTTTCATGAATATCCGCCTGGCCAATGTACCTATACCGACCGCTGGGGACATCAGGTTGAGTTGGAT  
GACCTTTTGTGACCGGTGTAACGTCCGATACGTCATATCCAGATGGTGTGGACATCACTGCTACTA  
TTGAGCAGCAGCTGCAGATCATCCACCGTGTGCCAACTTTGGTGGCAAGGGTCAAGGTCGTCGAGAGTT  
CCCTCCAAAAGGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG216351 representing NM\_138721  
Red=Cloning site Green=Tags(s)

MALSHSVKERTISENSLIILLQLQGQITTVDLRDESVARGRIDNVDAFMNIRLANVYTDWRWGHQVELD  
DLFVTGRNVRYVHIPDGDITATIEQQLQIIHRVRFNGGKGQGRREFPSKRP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_138721

**ORF Size:** 366 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.

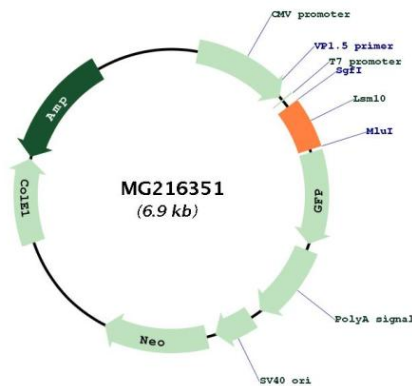
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_138721.2</a> , <a href="#">NP_620046.1</a>
<b>RefSeq Size:</b>	927 bp
<b>RefSeq ORF:</b>	369 bp
<b>Locus ID:</b>	116748
<b>UniProt ID:</b>	<a href="#">Q8QZX5</a>
<b>Cytogenetics:</b>	4 D2.2

**Gene Summary:** Appears to function in the U7 snRNP complex that is involved in histone 3'-end processing (By similarity). Increases U7 snRNA levels but not histone 3'-end pre-mRNA processing activity, when overexpressed (By similarity). Required for cell cycle progression from G1 to S phases (By similarity). Binds specifically to U7 snRNA (By similarity). Binds specifically to U7 snRNA (By similarity). Binds to the downstream cleavage product (DCP) of histone pre-mRNA. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG216351