

## Product datasheet for **MR225298**

### Ly96 (NM\_001159711) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ly96 (NM\_001159711) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ly96  
**Synonyms:** ESOP-1; MD-2; MD2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR225298 representing NM\_001159711  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTTGCCATTTATTCTCTTTTCGACGCTGCTTTCTCCCATATTGACTGAATCTGAGAAGCAACAGTGGT  
TCTGCAACTCCTCGATGCAATTATTTCTACAGTTATTGTGATCACTTCAAATTCCTATTTCAATTAG  
TTCTGAACCTGCATAAGACTGAGGGGAACCAATGGATTGTGCATGTTGAGTTCATTCCAAAGTTGCCG  
AAGCGTAAGGAAGTTCTGTGCCATGGACATGATGACTATTCTTTTTGCAGAGCTCTGAAAGGAGAGA  
CTGTGAATACATCAATACCATTCTTTTCGAGGGAATACTATTTCTAAGGGCCATTACAGATGTGTTGC  
AGAAGCTATTGCTGGGATACTGAAGAAAAGCTTCTGTTTGAATTTACCATCATTACCGCCGTGAT  
GTCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225298 representing NM\_001159711  
**Red=Cloning site Green=Tags(s)**  
MLPFILFSTLLSPILTESEKQQWFCNSSDAIISYSYCDHLKFPISISSEPCIRLRGTNGFVHVEFIPKLP  
KRKEVLCHGHDDDYDFCRALKGETVNTSIPFSFEGILFPKGHYRCVAEAIAGDTEEKLFLNFTIIHRRD  
VN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

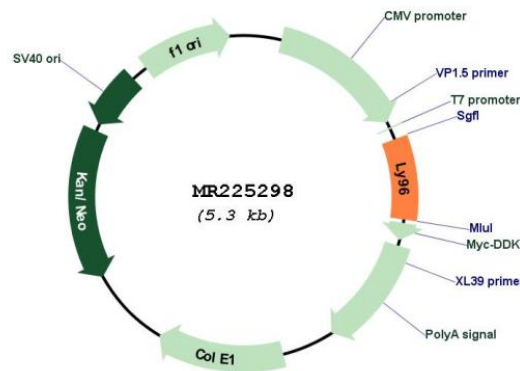


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001159711

ORF Size: 426 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.

<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>	<u>NM_001159711.1, NP_001153183.1</u>
<b>RefSeq Size:</b>	549 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	17087
<b>UniProt ID:</b>	<u>Q9JHF9</u>
<b>Cytogenetics:</b>	1 A3
<b>MW:</b>	16.7 kDa
<b>Gene Summary:</b>	Binds bacterial lipopolysaccharide (LPS) (PubMed:22532668). Cooperates with TLR4 in the innate immune response to bacterial lipopolysaccharide (LPS), and with TLR2 in the response to cell wall components from Gram-positive and Gram-negative bacteria. Enhances TLR4-dependent activation of NF-kappa-B. Cells expressing both LY96 and TLR4, but not TLR4 alone, respond to LPS (PubMed:10725698).[UniProtKB/Swiss-Prot Function]