

## Product datasheet for MR225297

### Ly96 (NM\_016923) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ly96 (NM\_016923) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ly96  
**Synonyms:** ESOP-1; MD-2; MD2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225297 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGCCATTTATTCTCTTTTCGACGCTGCTTTCTCCCATATTGACTGAATCTGAGAAGCAACAGTGGT  
TCTGCAACTCCTCGATGCAATTATTTCTACAGTTATTGTGATCACTTGAAATTCCTATTTCAATTAG  
TTCTGAACCTGCATAAGACTGAGGGGAACCAATGGATTTGTGCATGTTGAGTTCATTCCAAGAGGAAAC  
TAAAAATATTTATATTTCAACCTATTCATCAGTGTCAACTCCATAGAGTTGCCGAAGCGTAAGGAAGTTC  
TGTGCCATGGACATGATGATGACTATTCTTTTGCAGAGCTCTGAAAGGAGAGACTGTGAATACATCAAT  
ACCATTCTCTTTGAGGGAATACTATTTCTAAGGCCATTACAGATGTGTTGCAGAAGCTATTGCTGGG  
GATACTGAAGAAAAGCTCTTCTGTTGAATTTACCATCATTACCGCCGTGATGCAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225297 protein sequence  
 Red=Cloning site Green=Tags(s)

MLPFILFSTLLSPILTESEKQQWFCNSSDAIISYSYCDHLKFPISISSEPCIRLRGTNGFVHVEFIPRGN  
LKLYLFNLFISVNSIELPKRKEVLCHGHDDYFCRALKGETVNTSIPFSFEGILFPKGYHCVAEAIAG  
DTEEKLFLNFTIIHRRDVN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_016923

**ORF Size:** 483 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.

**RefSeq:** [NM\\_016923.2](#), [NP\\_058619.1](#)

**RefSeq Size:** 603 bp

**RefSeq ORF:** 483 bp

**Locus ID:** 17087

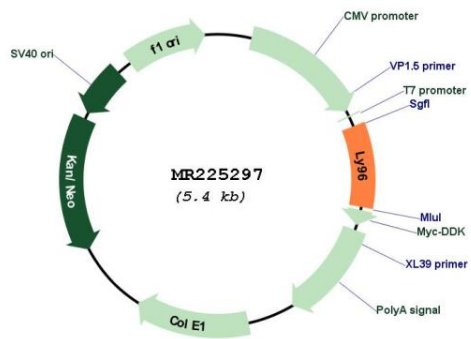
**UniProt ID:** [Q9JHF9](#)

**Cytogenetics:** 1 A3

**MW:** 18.4 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR225297