

Product datasheet for **MG225298**

Ly96 (NM_001159711) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ly96 (NM_001159711) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ly96
Synonyms: ESOP-1; MD-2; MD2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225298 representing NM_001159711
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGCCATTTATTCTCTTTTCGACGCTGCTTCTCCCATATTGACTGAATCTGAGAAGCAACAGTGGT
 TCTGCACTCCTCGATGCAATTATTTCTACAGTTATTGTGATCACTTCAAATTCCTATTTCAATTAG
 TTCTGAACCTGCATAAGACTGAGGGGAACCAATGGATTTGTGCATGTTGAGTTCATTCAAAGTTGCCG
 AAGCGTAAGGAAGTTCTGTGCCATGGACATGATGACTATTCTTTTTGCAGAGCTCTGAAAGGAGAGA
 CTGTGAATACATCAATACCATTCTTTTCGAGGAATACTATTTCTAAGGCCATTACAGATGTGTTGC
 AGAAGCTATTGCTGGGATACTGAAGAAAAGCTTCTGTTTGAATTTACCATCATTACCGCCGTGAT
 GTCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225298 representing NM_001159711
 Red=Cloning site Green=Tags(s)

MLPFILFSTLLSPILTESEKQQWFCNSSDAIISYSYCDHLKFPISISSEPCIRLRGTNGFVHVEFIPKLP
 KRKEVLCHGHDDYSFCRALKGETVNTSIPFSFEGILFPKGHYRCVAEAIAGDTEEKLFLCNFTIIHRRD
 VN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

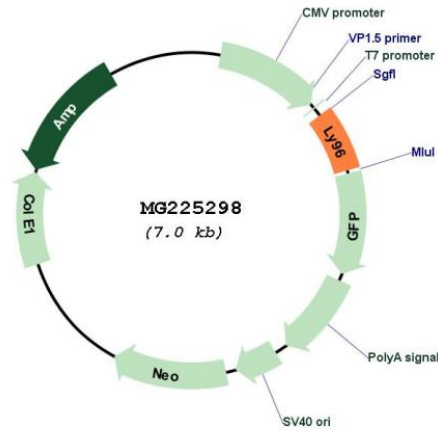


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Cloning Scheme:



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.

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_001159711.1, NP_001153183.1</u>
RefSeq Size:	549 bp
RefSeq ORF:	429 bp
Locus ID:	17087
UniProt ID:	<u>Q9JHF9</u>
Cytogenetics:	1 A3
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]