

## **Product datasheet for RG230968**

## MD2 (LY96) (NM 001195797) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** MD2 (LY96) (NM\_001195797) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: LY96

**Synonyms:** ESOP-1; ly-96; MD-2; MD2

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG230968 representing NM\_001195797
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTTACCATTTCTGTTTTTTTCCACCCTGTTTTCTTCCATATTTACTGAAGCTCAGAAGCAGTATTGGG
TCTGCAACTCCGATGCAAGTATTTCATACACCTACTGTGGGAGAGATTTAAAGCAATTATATTTCAA
TCTCTATATAACTGTCAACACCCATGAATCTTCCAAAGCGCAAAGAAGTTATTTGCCGAGGATCTGATGAC
GATTACTCTTTTTGCAGAGCTCTGAAGGGAGAGACTGTGAATACAACAATATCATTCTCCTTCAAGGGAA
TAAAATTTTCTAAGGGAAAATACAAATGTGTTGTTGAAGCTATTTCTGGGAGCCCAGAAGAAATGCTCTT

TTGCTTGGAGTTTGTCATCCTACACCAACCTAATTCAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG230968 representing NM\_001195797

Red=Cloning site Green=Tags(s)

MLPFLFFSTLFSSIFTEAQKQYWVCNSSDASISYTYCGRDLKQLYFNLYITVNTMNLPKRKEVICRGSDD

DYSFCRALKGETVNTTISFSFKGIKFSKGKYKCVVEAISGSPEEMLFCLEFVILHQPNSN

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



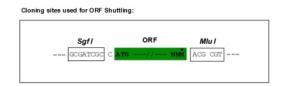
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

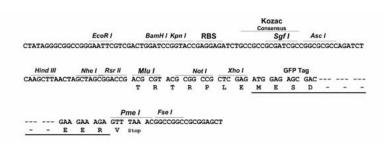
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

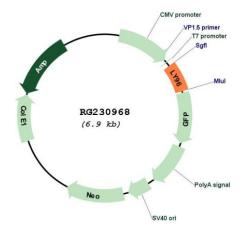


## **Cloning Scheme:**





## Plasmid Map:



**ACCN:** NM\_001195797

ORF Size: 390 bp



**OTI Disclaimer:** 

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customport@origene.com">customport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

**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 001195797.1, NP 001182726.1

 RefSeq Size:
 552 bp

 RefSeq ORF:
 393 bp

 Locus ID:
 23643

 UniProt ID:
 Q9Y6Y9

 Cytogenetics:
 8q21.11

**Protein Families:** Secreted Protein

Protein Pathways: Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway

Gene Summary: This gene encodes a protein which associates with toll-like receptor 4 on the cell surface and

confers responsiveness to lipopolysaccyaride (LPS), thus providing a link between the receptor and LPS signaling. Studies of the mouse ortholog suggest that this gene may be involved in endotoxin neutralization. Alternative splicing results in multiple transcript variants

encoding different isoforms. [provided by RefSeq, Sep 2010]