

## Product datasheet for **RG204686**

### MD2 (LY96) (NM\_015364) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MD2 (LY96) (NM\_015364) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MD2  
**Synonyms:** ESOP-1; ly-96; MD-2; MD2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204686 representing NM\_015364  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTACCAATTTCTGTTTTTTCCACCCTGTTTTCTTCCATATTTACTGAAGCTCAGAAGCAGTATTGGG  
 TCTGCAACTCATCCGATGCAAGTATTTTCATACACCTACTGTGATAAAATGCAATACCCAATTTCAATTAA  
 TGTTAACCCTGTATAGAATTGAAAGGATCCAAAGGATTATTGCACATTTTCTACATTCCAAGGAGAGAT  
 TTAAAGCAATTATTTCAATCTCTATATAACTGTCAACACCATGAATCTTCAAAGCGCAAAGAAGTTA  
 TTTGCCGAGGATCTGATGACGATTACTCTTTTGCAGAGCTCTGAAGGGAGAGACTGTGAATACAACAAT  
 ATCATTCTCCTTCAAGGGAATAAAATTTCTAAGGGAATAACAATGTGTTGTTGAAGCTATTTCTGGG  
 AGCCCAGAAGAAATGCTCTTTGCTTGGAGTTTGTCTCATCTACACCAACCTAATCAAAT

A**CGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204686 representing NM\_015364  
 Red=Cloning site Green=Tags(s)

MLPFLFFSTLFSSIFTEAQKQYWVCNSSDASISYTYCDKMQYPIVINPNCIELKSGKGLLHIFYIPRRD  
 LKQLYFNLYITVNTMNLPKRKEVICRGSDDDYSFCRALKGETVNTTISFSFKGIKFSKGKYKCVVEAISG  
 SPEEMLCLEFVILHQPNNSN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_015364

**ORF Size:** 480 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\\_015364.4](#)

**RefSeq Size:** 587 bp

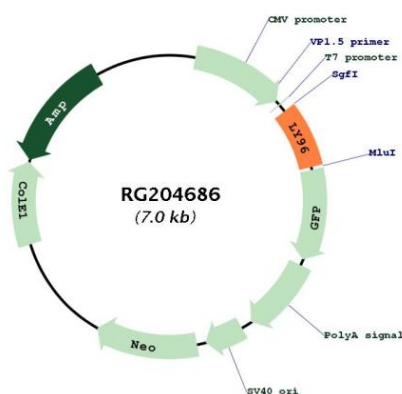
**RefSeq ORF:** 483 bp

**Locus ID:** 23643

**UniProt ID:** [Q9Y6Y9](#)

<b>Cytogenetics:</b>	8q21.11
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Pathogenic Escherichia coli infection, Toll-like receptor signaling pathway
<b>Gene Summary:</b>	This gene encodes a protein which associates with toll-like receptor 4 on the cell surface and confers responsiveness to lipopolysaccharide (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]

## Product images:



Circular map for RG204686