

Product datasheet for RC204686

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: Myc-DDK

Symbol: LY96

Synonyms:ESOP-1; ly-96; MD-2; MD2Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide >RC204686 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTTACCATTTCTGTTTTTTTCCACCCTGTTTTCTTCCATATTTACTGAAGCTCAGAAGCAGTATTGGG
TCTGCAACTCATCCGATGCAAGTATTTCATACACCTACTGTGATAAAATGCAATACCCAATTTCAATTAA
TGTTAACCCCTGTATAGAATTGAAAGGATCCAAAGGATTATTGCACACTTTCTACATTCCAAGGAGAGAT
TTAAAGCAATTATATTTCAATCTCTATATAACTGTCAACACCATGAATCTTCCAAAGCGCAAAGAAGTTA
TTTGCCGAGGATCTGATGACGATTACTCTTTTTTGCAGAGCTCTGAAGGGAGAGCTGTGAATACAACAAT
ATCATTCTCCTTCAAGGGAATAAAATTTTCTAAGGGAAAATACAAATGTGTTGTTGAAGCTATTTCTGGG

AGCCCAGAAGAAATGCTCTTTTGCTTGGAGTTTGTCATCCTACACCAACCTAATTCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204686 protein sequence

Red=Cloning site Green=Tags(s)

MLPFLFFSTLFSSIFTEAQKQYWVCNSSDASISYTYCDKMQYPISINVNPCIELKGSKGLLHIFYIPRRD LKQLYFNLYITVNTMNLPKRKEVICRGSDDDYSFCRALKGETVNTTISFSFKGIKFSKGKYKCVVEAISG

SPEEMLFCLEFVILHQPNSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6233 a07.zip

Restriction Sites: Sgfl-Mlul



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

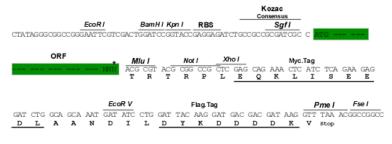
CN: techsupport@origene.cn

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



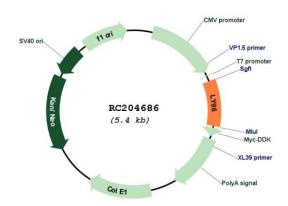
Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

Plasmid Map:



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.

RefSeg: NM 015364.4

 RefSeq Size:
 642 bp

 RefSeq ORF:
 483 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

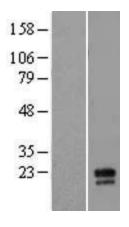
MW: 18.4 kDa

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

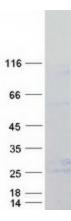
encoding different isoforms. [provided by RefSeq, Sep 2010]

Product images:



Western blot validation of overexpression lysate (Cat# [LY414593]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204686 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified LY96 protein (Cat# [TP304686]). The protein was produced from HEK293T cells transfected with LY96 cDNA clone (Cat# RC204686) using MegaTran 2.0 (Cat# [TT210002]).