

Product datasheet for **SC125964**

MD2 (LY96) (NM_015364) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MD2 (LY96) (NM_015364) Human Untagged Clone
Tag:	Tag Free
Symbol:	MD2
Synonyms:	ESOP-1; ly-96; MD-2; MD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_015364 edited GTAAAGCTTTGGAGATATTGAATCATGTTACCATTTCTGTTTTTTCCACCTGTTTTCT TCCATATTTACTGAAGCTCAGAAGCAGTATTGGGTCTGCAACTCATCCGATGCAAGTATT TCATACACCTACTGTGATAAAATGCAATACCCAATTTCAATTAATGTTAACCCCTGTATA GAATTGAAAGGATCCAAAGGATTATTGCACATTTTCTACATTCCAAGGAGAGATTTAAAG CAATTATATTTCAATCTCTATATAACTGTCAACACCATGAATCTTCCAAAGCGCAAAGAA GTTATTTGCCGAGGATCTGATGACGATTACTCTTTTTGCAGAGCTCTGAAGGGAGAGACT GTGAATACAACAATATCATTCTCCTTCAAGGGAATAAAATTTTCTAAGGGAAAATACAAA TGTGTTGTTGAAGCTATTTCTGGGAGCCCAGAAGAAATGCTCTTTTGCTTGGAGTTTGTC ATCCTACACCAACCTAATTCAAATTAGAATAAATTGAGTATTTAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_015364 unedited CGTGCAGTCATTATTTGTATACGACTCATATAGGCGGCCGCGTAATTCGCCATTACGGCC GGGGGTAAAGCTTTGGAGATATTGAATCATGTTACCATTCTGTTTTTTCCACCCTGTT TTCTTCCATATTTACTGAAGCTCAGAAGCAGTATTGGGTCTGCAACTCATCCGATGCAAG TATTTTCATACACCTACTGTGATAAAATGCAATACCCAATTTCAATTAATGTTAACCCCTG TATAGAATTGAAAGGATCCAAAGGATTATTGCACATTTTCTACATTCCAAGGAGAGATTT AAAGCAATTATATTTCAATCTCTATATAACTGTCAACACCATGAATCTTCCAAAGCGCAA AGAAGTTATTTGCCGAGGATCTGATGACGATTACTTTTTGCAGAGCTCTGAAGGGAGA GACTGTGAATACAACAATATCATTCTCCTTCAAGGGAATAAAATTTTCTAAGGGAAAATA CAAATGTGTTGTTGAAGCTATTTCTGGGAGCCCAGAAAAATGCTCTTTTGCTTGGAGTT TGTCATCTACACCAACCTAATTCAAATTAGAATAAATTGAGTATTTAAAAANAAAAAN ANAAAAAATAAACCTTGTGCGCCGCCTCGGCCCTCGACTCTAGATTGCGGCCGCGGT CATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTGACCCCTCCCAGTGCCTCT CCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCCAAAAAATAATTGC ACCATTTTGTCCGACTAGGTGTCCCTCATAATATTATGGGTGAAGGGGGCGGGGTATG AAACAAGGGGAAGTATGTAATAACAATAATAATGTATGCAGGTTCCAATC
Restriction Sites:	NotI-NotI
ACCN:	NM_015364
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_015364.2 , NP_056179.1
RefSeq Size:	587 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

Gene Summary:

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).