

## Product datasheet for **RC202253**

### MYD88 (NM\_002468) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	MYD88
Synonyms:	IMD68; MYD88D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202253 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCAGGAGGTCCCGCGCGGGTCTGCGCCCCGGTCTCCTCCACATCCTCCCTCCCCTGGCTG  
CTCTCAACATGCGAGTGCGGCGCCGCCTGTCTCTGTTCTTGAACGTGCGGACACAGGTGGCGGCCGACTG  
GACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGGAGATCCGGCAACTGGAGACACAAGCGGACCCC  
ACTGGCAGGCTGCTGGACGCTGGCAGGACGCCCTGGCGCCTCTGTAGGCCGACTGCTCGAGCTGCTTA  
CCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGATTGCCAAAAGTATAT  
CTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGACAGCAGTGTCCCACGG  
ACAGCAGAGCTGGCGGGCATCACCACACTTGATGACCCCTGGGGCATATGCCTGAGCGTTTCGATGCCT  
TCATCTGCTATTGCCCCAGCGACATCCAGTTTGTGCAGGAGATGATCCGGCAACTGGAACAGACAACTA  
TCGACTGAAGTTGTGTGTCTGACCGCGATGCTCCTGCCTGGCACCTGTGTCTGGTCTATTGCTAGTGAG  
CTCATCGAAAAGAGGTGCCGCCGATGGTGGTGGTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTG  
ACTTCCAGACCAAATTTGACTCAGCCTCTCTCCAGGTGCCCATCAGAAGCGACTGATCCCCATCAAGTA  
CAAGGCAATGAAGAAAGAGTTCCCCAGCATCTGAGGTTCACTGTCTGCGACTACACCAACCCCTGC  
ACCAAATCTTGGTTCTGACTCGCCTTGCCAAGGCCTTGTCCCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202253 protein sequence  
 Red=Cloning site Green=Tags(s)

MAAGGPGAGSAAPVSSTSSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFEYLEIRQLETQADP  
 TGRLLDAWQGRPGASVGRLLLELLTKLGRDDVLELGPSEEDCQKYILKQQQEEAEKPLQVAVDSSVPR  
 TAEIAGITTLDDPLGHMPERFDAFICYCPSDIQFVQEMIRQLEQTNYRLKLCVSDRDVLPGTCVWSIASE  
 LIEKRCRRMVVVSDDYLSKECDFQTKFALSLSPGAHQKRLIPIKYKAMKKEFPSILRFITVCDYTNPC  
 TKSFWFTRLAKALSLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6001\\_h01.zip](https://cdn.origene.com/chromatograms/mk6001_h01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002468

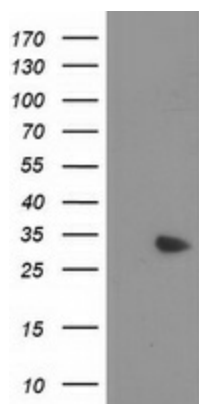
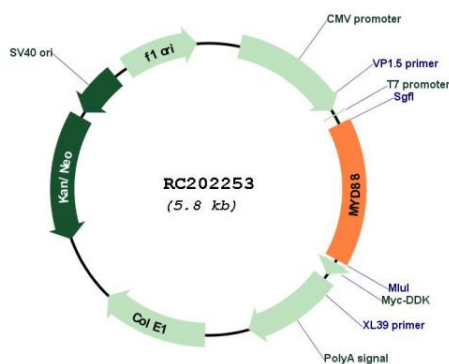
**ORF Size:** 888 bp

**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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

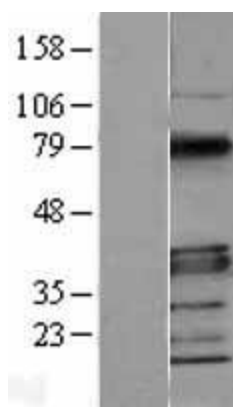
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_002468.5</a></u>
<b>RefSeq Size:</b>	2862 bp
<b>RefSeq ORF:</b>	891 bp
<b>Locus ID:</b>	4615
<b>UniProt ID:</b>	<u><a href="#">Q99836</a></u>
<b>Cytogenetics:</b>	3p22.2
<b>Domains:</b>	TIR, DEATH
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Apoptosis, Toll-like receptor signaling pathway
<b>MW:</b>	33.2 kDa
<b>Gene Summary:</b>	This gene encodes a cytosolic adapter protein that plays a central role in the innate and adaptive immune response. This protein functions as an essential signal transducer in the interleukin-1 and Toll-like receptor signaling pathways. These pathways regulate that activation of numerous proinflammatory genes. The encoded protein consists of an N-terminal death domain and a C-terminal Toll-interleukin1 receptor domain. Patients with defects in this gene have an increased susceptibility to pyogenic bacterial infections. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

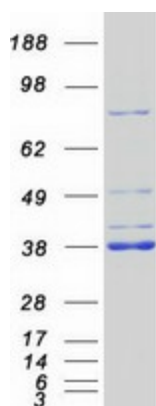
## Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYD88 (Cat# RC202253, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYD88 (Cat# [TA502116]). Positive lysates [LY432175] (100ug) and [LC432175] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400877]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202253 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYD88 protein (Cat# [TP302253]). The protein was produced from HEK293T cells transfected with MYD88 cDNA clone (Cat# RC202253) using MegaTran 2.0 (Cat# [TT210002]).