

Product datasheet for **RC229151**

MYD88 (NM_002468) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYD88 (NM_002468) Human Tagged ORF Clone
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:	>RC229151 representing NM_002468 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACCCGACCGCTGAGGCTCCAGGACCGCCGCCATGGCTGCAGGAGTCCCGCGCGGGTCTG
CGGCCCGGTCTCCTCCACATCCTCCCTCCCTGGCTGCTCAACATGCGAGTGCGGCGCCGCTGTC
TCTGTTCTTGAACGTGCGGACACAGGTGGCGGCCGACTGGACCGCTGGCGGAGGAGATGGACTTTGAG
TACTTGGAGATCCGGCAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCTGGCAGGGAC
GCCCTGGCGCCTCTGTAGCCGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGA
GCTGGGACCCAGCATTGAGGAGGATTGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGCTGAGAAG
CCTTTACAGGTGGCCGCTGTAGACAGCAGTGTCCACGGACAGCAGAGCTGGCGGGCATCACCACACTTG
ATGACCCCTGGGGCATAATGCCTGAGCGTTTCGATGCCTTCATCTGCTATTGCCCCAGCGACATCCAGTT
TGTGCAGGAGATGATCCGGCAACTGGAACAGACAACTATCGACTGAAGTTGTGTGTCTGACCGCGAT
GTCCTGCCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATCGAAAAGAGGTGCCCGCGGATGGTGG
TGGTTGTCTCTGATGATTACCTGCAGAGCAAGGAATGTGACTTCCAGACCAAATTTCACTCAGCCTCTC
TCCAGGTGCCATCAGAAGCGACTGATCCCATCAAGTACAAGGCAATGAAGAAAGAGTTCCCCAGCATC
CTGAGGTTCACTGTCTGCGACTACACCAACCCCTGCACCAATCTTGGTTCTGGACTCGCCTTGCCA
AGGCCTTGTCCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229151 representing NM_002468
Red=Cloning site Green=Tags(s)

MRPDRAEAPGPPAMAAGGPGAGSAAPVSSSTSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFE
 YLEIRQLETQADPTGRLLDAWQGRPGASVGRLLLELLTKLGRDDVLELGPSTIEEDCQKYILKQQEEAEK
 PLQVAADVSSVPRTAELAGITTLDDPLGHMPERFADFICYCPSDIQFVQEMIRQLEQTNYRLKLCVSDRD
 VLPGTCVWSIASELIEKRCRRMVVVSDDYLSKECDFQTKFALSLSPGAHQKRLIPIKYKAMKKEFPSI
 LRFITVCDYTNPCTKSWFWTRLAKALSLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002468

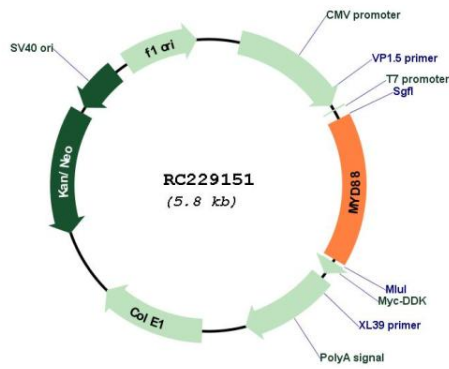
ORF Size: 927 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

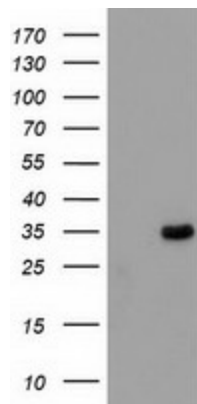
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

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:	<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:	<u>NM_002468.4</u> , <u>NP_002459.2</u>
RefSeq ORF:	891 bp
Locus ID:	4615
UniProt ID:	<u>Q99836</u>
Cytogenetics:	3p22.2
Domains:	TIR, DEATH
Protein Families:	Druggable Genome
Protein Pathways:	Apoptosis, Toll-like receptor signaling pathway
MW:	34.4 kDa
Gene Summary:	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]

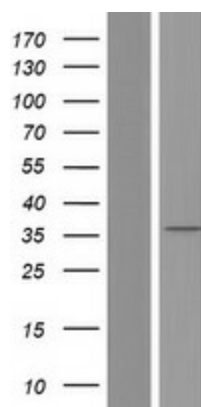
Product images:



Circular map for RC229151



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYD88 (Cat# RC229151, 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# [TA502117]). Positive lysates [LY432175] (100ug) and [LC432175] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY432175]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229151 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).