

Product datasheet for **SC118606**

MYD88 (NM_002468) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYD88 (NM_002468) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYD88
Synonyms:	IMD68; MYD88D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_002468 edited
GAATTCGGCACGAGGCGCGCTGAGGCTCCAGGACCGCCGCCATGGCTGCAGGAGTCCC
GGCGGGGGTCTGCGGCCCGGTCTCCTCCACATCCTCCCTTCCCCTGGCTGCTCAAC
ATGCGAGTGGCGGCGCGCTGTCTGTCTTGAACGTGCGGACACAGGTGGCGGGCAGC
TGGACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGGAGATCCGGCAACTGGAGACA
CAAGCGGACCCCACTGGCAGGCTGCTGGACGCCTGGCAGGGACGCCTGGCGCCTCTGTA
GGCCGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACTGCTGCTGGAGCTGGGA
CCCAGCATTGAGGAGGATTGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAG
AAGCCTTTACAGGTGGCCGCTGTAGACAGCAGTGTCCACGGACAGCAGAGCTGGCGGGC
ATCACCACACTTGATGACCCCTGGGCATATGCCTGAGCGTTTCGATGCCTTCATCTGC
TATTGCCCCAGCGACATCCAGTTTGTGCAGGAGATGATCCGGCAACTGGAACAGACAAAAC
TATCGACTGAAGTTGTGTGTCTGACCGCGATGTCTGCCTGGCACCTGTGTCTGGTCT
ATTGCTAGTGAGCTCATGAAAAGAGGTGCCGCCGATGGTGGTGGTGTCTCTGATGAT
TACCTGCAGAGCAAGGAATGTGACTTCCAGACCAATTTGCACTCAGCCTCTCTCCAGT
GCCCATCAGAAGCGACTGATCCCATCAAGTACAAGGCAATGAAGAAAGATTCCCAGC
ATCCTGAGGTTTACACTGTCTGCGACTACACCAACCCCTGCACCAAATCTTGGTCTGG
ACTCGCCTTGCCAAGGCCTGTCCCTGCCCTGAAGACTGTTCTGAGGCCCTGGGTGTGTG
TGTATCTGTCTGCCTGTCCATGTAATTTGCCCTGCCCTCCTTTCGTTGTAGGAGGAA
TCTGTGCTCTACTTACCTCTCAATTCCTGGAGATGCCAACTTCACAGACACGCTGCAGC
AGCTGGACATCACATTTTCATGTCTGCATGGAACCAAGTGGCTGTGAGTGGCATGTCCACT
TGCTGGATTATCAGCCAGGACACTATAGAACAGGACCAGCTGAGACTAAGAAGGACCAGC
AGAGCCAGCTCAGCTCTGAGCCATTACACATCTTACCCTCAGTTTCTCACTTGAGGA
GTGGGATGGGGAGAACAGAGAGTAGCTGTGTTTGAATCCCTGTAGGAAATGGTGAAGCAT
AGCTCTGGGTCTCCTGGGGGAGACCAGGCTTGGCTGCGGGAGAGCTGGCTGTTGCTGGAC
TACATGCTGGCCACTGCTGTGACCACGACTGCTGGGGCAGCTTCTTCCACAGTATGC
CTACTGATGCTTCAGTGCCTCTGCACACCGCCATTCCACTTCTCCTTCCCACAGGGC
AGGTGGGGAAGCAGTTTGGCCCAGCCAAAGGAGACCCACCTTGAGCCTTATTTCTAAT
GGGTCCACCTCTCATCTGCATCTTTCACACCTCCAGCTTCTGCCCAACCTTCAGCAGTG
ACAAGTCCCCAAGAGACTCGCTGAGCAGCTTGGGCTGCTTTTCATTTCCACCTGTCAGG
ATGCCTGTGGTATGCTCTCAGCTCCACCTGGCATGAGAAGGGATCCTGGCCTCTGGCAT
ATTCATCAAGTATGAGTTCTGGGATGAGTCACTGTAATGATGTGAGCAGGGAGCCTTCC
TCCTGGGCCACCTGCAGAGAGCTTCCACCAACTTTGTACCTTGATTGCCTTACAAAG
TTATTTGTTTACAACAGCGACCATATAAAAGCCTCCTGCCCCAAAGCTTGTGGGCACAT
GGGCACATACAGACTCACATACAGACACACATATATGTACAGACATGTAATCTCACAC
ACACAGGCACCAGCATACACACGTTTTTCTAGGTACAGCTCCCAGGAACAGCTAGGTGGG
AAAGTCCCACACTGAGGGAGCCTAACCATGTCCCTGAACAAAAATTGGGCACATCTA
TTCCTTTTCTCTGTGTCCCTACTCATTGAAACCAACTCTGAAAGGACCCAATGTACC
AGTATTTATACCTCTAGTGAAGCACAGAGAGAGGAAAGAGAGCTGCTTAAACTCACACAAC
AATGAACTGCAGACACAGCTGTTCTCCTCTCTCCTTCCCAGAGCAATTTATACTTTA
CCCTCAGGCTGTCTCTGGGGAGAAGGTGCCATGGTCTTAGGTGTCTGTGCCCCAGGACA
GACCCTAGGACCCTAAATCCAATAGAAAATGCATATCTTTGCTCCAATTTAGCCAGGCT
GGAGCAAGGTACCTTTTCTTAGGATCTTGGGAGGGAATGGATGCCCTCTCTGCATGATC
TTGTTGAGGCATTTAGCTGCCATGCACCTGTCCCCTTTAATACTGGGCATTTTAAAGCC
ATCTCAAGAGGCATTTCTACATGTTTTGTACGCATTAATAAATTTCAAAGATATCTGA
GAAAAGCCGATTTTGCATTCTCCTATATCCTGGAATATATCTTGCATCCTGAGTTTA
TAATAATAATAATATTCTACCTTGAAAAAAAAAAAAAAAAAAAAAAGTTCGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002468 unedited
 AATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCGCTGAGGCT
 CCAGGACCGCCCGCCATGGCTGCAGGAGTCCCAGGCGCGGGTCTGCGGCCCGGTCTCC
 TCCACATCCTCCCTTCCCTGGCTGCTCAACATGCGAGTGGCGCGCCGCTGTCTCTG
 TTCTTGAACGTGCGGACACAGGTGGCGGCCGACTGGACCGCGCTGGCGGAGGAGATGGAC
 TTTGAGTACTTGGAGATCCGGCAACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTG
 GACGCTGGCAGGACGCCCTGGCGCTCTGTAGGCCGACTGCTCGAGCTGCTTACCAAG
 CTGGGCCGACGACGTGCTGCTGGAGCTGGGACCCAGCATTGAGGAGGATTGCCAAAAG
 TATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAGCCTTTACAGGTGGCCGCTGTAGAC
 AGCAGTGTCCCACGGACAGCAGAGCTGGCGGGCATCACCACACTTGATGACCCCTGGGG
 CATATGCCTGAGCGTTTCGATGCCTTCACTGCTATTGCCCCAGCGACATCCAGTTTGTG
 CAGGAGATGATCCGGCAACTGGAACAGACAACTATCGACTGAAGTTGTGTGTCTGAC
 CGCGATGCTCTGCCTGGCACCTGTGTCTGGTCTATTGCTAGTGAGCTCATCGAAAAGAGT
 GCCCGCGATGGTGGTGGTTGTCTGTGATTACCTGCAGAGCAAGGAATGTGACTNCC
 AGACCAAATTGCACTCAGCCTCTCTTCAGGTGCCATCAGAAGCGACTGATCCCCATCA
 GTACCAGGGCATGAAGAAAGAGCTCCCCAGCATCTCGAGGTCATCACTGTCTGCGACTA
 CACCAACCCTGCACCAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002468 unedited
 ATGGCCGCGCCGATTCTAGATCGAGTTTTTTTTTTTTTTTTTTTTTCCAGGTAGNAAAT
 TATTTATTATTATAAACTCAGGATGCAAGATATATCCAGGATATAGGAAGAATGGCAA
 TATCGGCTTTTCTCAAATATCTTTGAAATTATTTAATGCGTACAAAACATGTAGAAAAT
 GCCTCTTGAGATGGCTTTAAAATGCCAGTATTAAAGGGGACAGGTGCATGGCAGCTAA
 ATGCCTCAACAAGATCATGCAGAGAGGGCATCCATTCCCTCCCAAGATCCTAAGAAAAG
 GTACCTTGCTCCAGCCTGGCTGAAAGTGGAGCAAAGATATGCATTTTCTATTGGATTTAG
 GGTCTAGGGTCTGTCCTGGGACAGACACCTAAGACCATGGCACCTTCTCCCCAGAGG
 ACAGCCTGAGGGTAAAGTATAAATTGCTCTGGGAAGGAGAGAGGGAGAGAACAGCTGTGT
 CTGCAGTTCATTGTTGTGTGAGTTTAAGCAGCTCTTCTCTCTCTGTGCTTACTAGA
 GGTATAAACTGGTACATTGGGTCCTTTCCAGAGTTTGGTTCAATGAGTAGGGACACA
 AGAGAAAAGGAATAGATGAGTGCCCAATTTTTGTTCCAGGACATGTTAGGCTCCCTCAG
 TGATGGGACTTTCCACCTAGCTGTTCCCTGGGAGCTGTACCTAGAANAACGTGTGTATGC
 TGGTGCCTGTGTGTGTGAGAGTACATGTCTGTACATATATGNTGTNGTCTGTATGTGAG
 TCTGTATGTGCCATGTGCCACAAGCTTTTGGCANGAGGCTTTATATGGTCGCTGTTT
 GTAACAAATNACTTTGTAGGGCATCAGGTACAAAAGTTGTGGNNAGCTCTCTGCANGTGG
 CCAGGGAGAANGCCTCTGCTCACATCATACGGGACTCATCCAGACTATACTGATGATA
 TGCAGAGCCAGNATCCTTTCAG

Restriction Sites:

NotI-NotI

ACCN:

NM_002468

Insert Size:

2550 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](#)

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_002468.2](#), [NP_002459.1](#)

RefSeq Size: 2862 bp

RefSeq ORF: 891 bp

Locus ID: 4615

UniProt ID: [Q99836](#)

Cytogenetics: 3p22.2

Domains: TIR, DEATH

Protein Families: Druggable Genome

Protein Pathways: Apoptosis, Toll-like receptor signaling pathway

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.