

## Product datasheet for **RG229612**

### MYD88 (NM\_001172566) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MYD88 (NM\_001172566) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MYD88  
**Synonyms:** IMD68; MYD88D  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG229612 representing NM\_001172566  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGACCCGACCGCTGAGGCTCCAGGACCGCCGCCATGGCTGCAGGAGGTCCCGCGCGGGTCTG  
CGGCCCGGTCTCTCCACATCTCCCTCCCTGGCTGCTCAACATGCGAGTGCAGGCGCCGCTGTC  
TCTGTTCTTGAACGTGCGGACACAGGTGGCGCCGACTGGACCGCTGGCGGAGGAGATGGACTTTGAG  
TACTTGGAGATCCGGCACTGGAGACACAAGCGGACCCCACTGGCAGGCTGCTGGACGCTGGCAGGGAC  
GCCCTGGCGCTCTGTAGCCGACTGCTCGAGTGCTTACCAAGCTGGGCCGCGACGACGTCTGCTGGA  
GCTGGGACCCAGCATTGGTGCCCGGATGGTGGTGGTTGCTCTGATGATTACCTGCAGAGCAAGGAAT  
GTGACTCCAGACAAATTTGCACTCAGCCTCTCTCCAGGTGCCATCAGAAGCGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229612 representing NM\_001172566  
Red=Cloning site Green=Tags(s)

MRPDRAEAPGPPAMAAGPGAGSAAPVSSSTSSLPLAALNMRVRRRLSLFLNVRTQVAADWTALAEEMDFE  
YLEIRQLETQADPTGRLLDAWQGRPGASVGRLLLELLTKLGRDDVLELGPISGAAGWWWSLMITCRARN  
VTSRPNLHSASLQVPIRSD

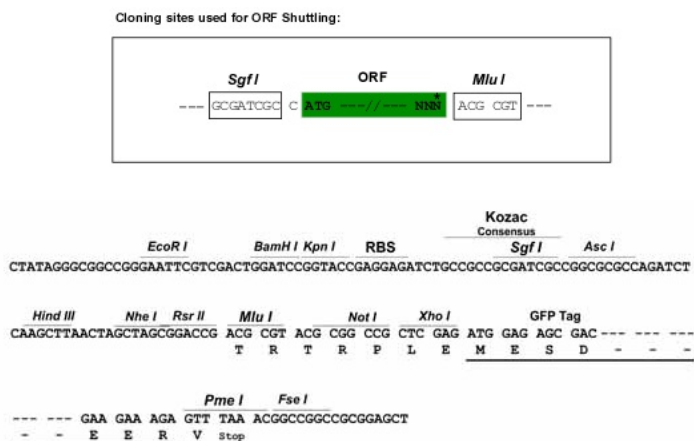
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

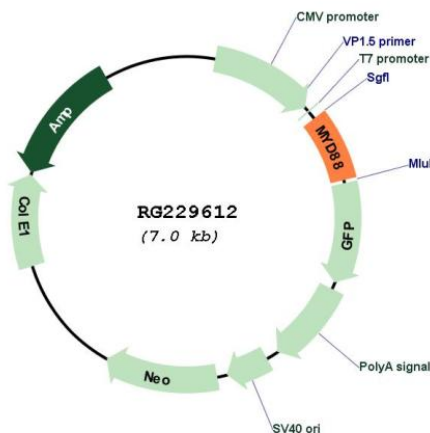


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001172566

ORF Size: 477 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.

<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>RefSeq:</b>	<u>NM_001172566.1, NP_001166037.1</u>
<b>RefSeq Size:</b>	2546 bp
<b>RefSeq ORF:</b>	441 bp
<b>Locus ID:</b>	4615
<b>UniProt ID:</b>	<u>Q99836</u>
<b>Cytogenetics:</b>	3p22.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Apoptosis, Toll-like receptor signaling pathway
<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]