

## Product datasheet for **SC328320**

### MYD88 (NM\_001172569) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | MYD88 (NM_001172569) 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)   |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_001172569, the custom clone sequence may differ by one or more nucleotides<br>ATGCGACCCGACCGCGCTGAGGCTCCAGGACCGCCGCCATGGCTGCAGGAGTCCCGGC<br>GCGGGGTCTGCGGCCCGGTCTCCTCCACATCCTCCCTTCCCCTGGCTGCTCTCAACATG<br>CGAGTGCGGCGCCGCTGTCTCTGTTCTTGAACGTGCGGACACAGGTGGCGGCCGACTGG<br>ACCGCGCTGGCGGAGGAGATGGACTTTGAGTACTTGGAGATCCGGCAACTGGAGACAA<br>GCGGACCCCACTGGCAGGCTGCTGGACGCCTGGCAGGGACGCCCTGGCGCCTCTGTAGGC<br>CGACTGCTCGAGCTGCTTACCAAGCTGGGCCGCGACGACGTGCTGCTGGAGCTGGGACCC<br>AGCATTGAGGAGGATTGCCAAAAGTATATCTTGAAGCAGCAGCAGGAGGAGGCTGAGAAG<br>CCTTTACAGGTGGCCGCTGTAGACAGCAGTGTCCACGGACAGCAGAGCTGGCGGGCATC<br>ACCACACTTGATGACCCCTGGGTGCCCGCGATGGTGGTGGTTGTCTCTGATGATTACC<br>TGCAGAGCAAGGAATGTGACTTCCAGACCAATTTGCACTCAGCCTCTCTCCAGGTGCC<br>ATCAGAAGCGACTGA |
| Restriction Sites:        | Please inquire   |
| ACCN:                     | NM_001172569   |
| 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).   |
| OTI Annotation:           | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |



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| <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_001172569.1, NP_001166040.1</u>   |
| <b>RefSeq Size:</b>           | 2681 bp   |
| <b>RefSeq ORF:</b>            | 615 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>          | <p>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]</p> <p>Transcript Variant: This variant (4) lacks an exon in the coding region, which results in a frameshift and an early stop codon, compared to variant 1. The encoded isoform (4) is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |