

## Product datasheet for SC307136

### GSDMA (NM\_178171) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | GSDMA (NM_178171) Human Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | GSDMA   |
| Synonyms:                 | FKSG9; GSDM; GSDM1  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC307136 representing NM_178171.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCATGTTTGAAAATGTCACCCGGGCCCTGGCCAGACAGCTAAACCCTCGAGGGGACCTGACACCA
CTTGACAGCCTCATCGACTTCAAGCGCTTCCATCCCTTCTGCCTGGTGTCTGAGGAAGAGGAAGAGCAG
CTCTTCTGGGGGGCCCGTACGTCGCACCGACTACACGCTGCTGGATGTCTTGAGCCCGCAGCTCA
CCTTCAGACCCAACAGACTGGGAATTTGGCTTTAAGAATATGCTGGACCCGAGTGGAGGGAGAT
GTGGATGTACCAAGACGGTGAAGGTGAAGGGAACGGCAGGGCTCTCGCAGAACAGCACTCTGGAGGTC
CAGACTCAGTGTGGCTCCCAAGGCCCTGGAGACCGTGCAGGAGAGGAAGCTGGCAGCAGACCACCCA
TTCTGAAGGAGATGCAAGATCAAGGGGAGAACCCTGTATGTGGTGTGGAGGTGGTGGAGACGGTGCAG
GAGGTCACACTGGAGCGAGCCGGCAAGGCAGAGGCCTGCTTCTCCCTCCCTTCTTCGCCCCATTGGGG
CTACAGGGATCCATAAATCACAAGGAGGCTGTAACCATCCCCAAGGGCTGCGTCTGGCCTTTCGAGTG
AGACAGCTGATGGTCAAAGGCAAAGATGAGTGGGATATCCACATATCTGCAATGATAACATGCAAACC
TCCCTCCTGGAGAAAAGTCAGGAGAGGAGAAGGTCATCCTTATCCAGGCATCTGATGTTGGGGACGTA
CACGAAGGCTTCAGGACTAAAAGAAGAAGTTCAGAGAGAGACCAACAAGTGGAGAAGCTGAGCCGA
GTAGGGCAAAGCTCCCTGCTCAGCTCCCTCAGCAAACCTTAGGGAAGAAAAGGAGCTACAAGACCTT
GAGCTCGCACTTGAAGGGGCTCTAGACAAGGGACATGAAGTACCCTGGAGGCACCTCCAAAAGATGTC
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CAACAGAAGCTGCTGGTGAATCCATGGAGAAAAGATCTACCCGTGCAGCTAAAGCTGGTGGAGAGC
ACGATGGAACAGAACTTCTGCTGGATAAAGAGGGTGTTCCTCCCTGCAACCTGAGCTGCTCTCTCC
CTTGGGGACGAGGAGCTGACCCTCACGGAGGCTCTAGTCGGGCTGAGTGGCCTGGAAGTGCAGAGATCG
GGCCCCAATATATGTGGGACCCAGACACCCTCCCTCGCCTCTGTGCTTTTATGCAGGCCTCTCTCTC
CTTCAGCAGCTTACCAAGGCCTCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-Mlul  |
| <b>Plasmid Map:</b>           | □  |
| <b>ACCN:</b>                  | NM_178171  |
| <b>Insert Size:</b>           | 1338 bp  |
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>OTI Annotation:</b>        | 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.   |
| <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>                | <a href="#">NM_178171.4</a>  |
| <b>RefSeq Size:</b>           | 2164 bp  |
| <b>RefSeq ORF:</b>            | 1338 bp  |
| <b>Locus ID:</b>              | 284110   |
| <b>UniProt ID:</b>            | <a href="#">Q96QA5</a>   |
| <b>Cytogenetics:</b>          | 17q21.1  |
| <b>MW:</b>                    | 49.4 kDa   |
| <b>Gene Summary:</b>          | May promote pyroptosis (Probable). Upon cleavage in vitro of genetically engineered GSDMA, the released N-terminal moiety binds to some types of lipids, such as possibly phosphatidylinositol (4,5)-bisphosphate. Homooligomerizes within the membrane and forms pores of 10 -15 nanometers (nm) of inner diameter, triggering cell death. Also binds to bacterial and mitochondrial lipids, including cardiolipin, and exhibits bactericidal activity (PubMed:27281216). The physiological relevance of these observations is unknown (Probable).[UniProtKB/Swiss-Prot Function] |