

Product datasheet for **SC103018**

GSDMA (AK096262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSDMA (AK096262) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSDMA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK096262, the custom clone sequence may differ by one or more nucleotides

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GCAGAAC TTTCTAGAGACGGCGGGACTGAGCCGGTTCGGGCTCAGTGCTGCGGGCGCTTCGGAATTTTTT
TTTTTTTTTTTTTTTTGGTTCTTGCCTCCTTCTGGCTGCCTGCCCCCTCCCCCTTCTCCTGGGACCTC
GGACTCGGGATCTCCCCGGCGGCTCCCTTGGCCCTTCTCCCTCCCTCCCATCCCCGCCACTTCCTG
TCTAACCGGATTCTCCAGATTCTTCTCGATCGATCTCCCGACATCACTCCACCAGTCCGCTGCGCCTGC
GGCGGGGTGTGGGGAGCGCAGGCTGCGGGATGGCAGTGGCGGCGCCCCCTCCCCGGGACCGGCCGTCAAC
ACGGGGCGGCTGGCCTCTCTGCTATGACCCGCTAGACCCTTCCCTACTTGGGGGAAAGAGGGCAAGGGC
GTGCGCGGGGAGCGGGGAGTGAGTGGACAGCGCTGCCCGCTGCAGAGAGCCGGGAAAGCGACCTCGAT
TCCCCAGATCCGAGAAGCCCCGCCAGGCAGCGATGCCCTGCTCAGCGCTGCAGATGCTGCGAGCAGC
GGGTTGGCAAGGCATGGCCGCCAGCTCGGAACTCAGATGGGGCACACTCAGGGGACCTTCCCGG
CGGTAATAAAACTGCCGTTCCGCGAATGCTTACAAAGATGGGTTCCCTCACAAAAAAGTCACCTCGGT
TTTCTAAAGGCCACAGAAGGAGTATTTCTTCTCAATGTTTGCTTCCGAGTGTTCGACAGGCTG
TGAGCGCGCAGGTGCCGTGTACCTAAGCTATGGTCTGGGACCTAGAGAGCCATCTAGAGAGGGGCC
TGGTTTTGCTCAGCACCTAACCCAGTTTAGCATAGTGCCTGGTGAAGTATGCCAATAGTTACTGGCT
GCATGAATTTTCTTTTTTAAATTTCTTTTTCAAAGTCTTGGCTGATTTTTTTTTTTTTTTTTTTTTT
TTGAGACAGGGTCTTGTCTGTGCGCCAGGCTGCAGTGGGTGGTGGCATCTGGCTCTCTGTAGCCGGG
ACTACAGGCGTCCGCCACCACGCCGACTAATTTTTGTATTTTAGTAGAGACGGGTTTCGCCATGTTGC
CCAGGCTGGTCTCGAACATCTGGTCTCAAATGATCCGCCCGCCTCGGCCCCAAAGTTCGGATTACA
GGCGTGAGCCACTGCGCCAGCCTGAATTTTTATTCCAATAATAACTGTATTTTGGACTTCCGTTATG
TGCCCGCACTGTGCGATTGGACGCCATTAGTCTCATCAAATAAATGAAAGCTTTTTAGAGATGAACT
TTCAGCGTCATAATGTGATGATTTATTGTAGTCCCTGCCGATGGAACCTGAAAGGGATGCAGAAGAAAA
GCCCTTCGCTTACGAATTTACAGCCAAATGAGTTGAGCCATAATGAAGACGTCTTTTAGGTGGCTGG
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AGTGCCAGGGTACCCAAACTCCGGGAGACCAGGATGGTGGGTGCTGGCTTCCGGGGTGGCAGTTTACC
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TGCTTCCGTTACATTAACACATAGCCTAATACCCTAGTGAATGAGCATGTGCTTTGGAGTAAGGGACG
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TGTATGGTATCTAGCTCAGTCCCTCGCCTCCAACCTCCGACGCTGGTAAATAACGGTCGTTTTAGTGTGATC
TGATAGGCGCTGCAGTGGAGATGGGGACAAAGGGCTAAGAAAACAGAGGTCTGTGAGACAGGGAAGGGCA
AGAGGGCAAGGTTCCCGGTGAGAAGCTCTGTCCCACACAGTGAAGGAGGAACTAGGGGACCACAGGCA
GAAACTAGGAGAAACCACAGGAGGAACTAGGGGTCTTGAATCCTGGAGCAGGAACCTACTGTTTCTCTT
AGAATATTTCTGGTCGTTTATGTGATATTTTTCTGATCATAAAAAGTACATATACTGT
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK096262 unedited
 NGTTCAGAATTGTATACGACTCACTATAGGCGCGCCGGAATTCGCACGCGGGGCAGTGG
 CCGCGCCCCCTCCCCGGGACCGGGCGTGGGACGGGCGGCGTGGCCTCTCTGCTATGACCC
 GCGTAGACCCTTCCCTACTTGGGGGAAAGAGGGCAAGGGCGTGCAGCGGGAGCGGGGAGT
 GAGTGGACAGCGCTGCCCGCTGCAGAGAGCCGGGAAAGCGACCTCGATTTCCCAGAT
 CCGAGAAACCCCGCCAGGCAGCGATGCCTCGCTCAGCGCCTGCAGATGCTGCGAGCAGC
 GGGGTTGGCAAGGCATGGCCCCGCCAGCTCGGAAGTGCAGATGGGGCACACACTCAGGGGA
 CCTTCCCGGCGTAATAAAACTGCCGTTTCCGCGAATGCTTACAAAGATGGGTTCCCT
 CACGAAAAAGTCACTCGGTTTTCTAAAGGCCACAGAAGGAGTATTTTCTTCTCAATG
 TTTGCTTCCCGAGTGTTCGACAGGCTGTGGAGCGCGCAGGTGCCGGTGTACCTAAG
 CTATGGTCGTGGACCTAGAGAGCCATCTAGAGAGGGCCTGGTTTTGCTCAGCACCTAA
 CCCCAGTTAGCATAGTGCCTGGTGAAGTGTCCCAATAGTTACTGGCTGCATGAATTT
 TCCTTTTTTAAATTTCTTTTCCAAGTCTTGGCTGATTTTTTTTTTTTTTTTTTTTTTTT
 TTGAGACAGGGTCTTGTCTGTGCGCCANGCTGCAGTGGGTGGTGCATCTTGGCTCTC
 TGTAGCCGGGACTACANGCGTCCGCCACCACGCCGACTAATTTTTGTATTTTAGTAGAG
 ACGGGGTTTCGCATGTTGCCAGGCTGGTCTCGACATCTGGTCTCAAATGATCCGGCC
 CCTCCGCCTNCCAAAGTTCTCGATACAGGCGTGGAGCACTT

3' Read Nucleotide Sequence:

>OriGene 3' read for AK096262 unedited
 ACTATGNAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGCATTACA
 TTTTTGACAAATTATACTGGGAACATTCTAACTTAGGCTGGGTGACAGATTTCCAGCTTT
 CATTGTACTGGTATACTGCATAACATGTATGCATACATGAACACACACCTATATGCAT
 TTCAGTCTTTGAACGATCCAAATATCATACAATTATTTGGATGTTAAGTGCATTGGCAG
 CCTAGGAAGGTCAAGATATGAACTGTAGAAACAAGGGTCTTCATGTGTAATGATGGGC
 CCAGAGTTTGGGACTGAGCCAGGTCAGCTCTAAGAGGCTCAGTGTGACGAAAACAAAGT
 TTCTGATCCCAGCAGGAGTCACTACAGATAAGGTGGATGAGAAAAAGTGTGCTGACTTC
 CTCCCGCAAAAAAAGGGGACATTTTGAAGAATTCGAGTGGTACCGTTACACATCTTT
 AATGAGAATACTAACTTAAATGGCCTGGGAAAGGGTGGAGAGATAGAGGAAAGAGACTA
 AAACACGTGCACACTTTCTACAGTATATGTACTTTTTATGATCAGAAAAATATCACATAA
 ACGACCAGGAAATATTCTAAGAGAAACAGTAAGTTCCTGCTCCAGGATTAAGACCCCTA
 GTTTCCTCCTGTGGTTTCTCCTAGTTTCTGCCTGTGGTCCCTAGTTTCCCTCCTTCACTG
 TGTGGGGACAGAGCTTCTCACCGGAACCTTGCCCTTTGCCCTTCCCTGTCTCAGGACC
 TCTGTTTTCTTAGCCCTTTGCCCCATCTTCACTGCAGCGCCTATCAGATCACACTAAAC
 GACCGTTATTTACAGCTGCCGAGTTGGAAGCGNAGACTGAGCTAGATACATACCCAGAT
 TCCNGCTTTTTTAAATTAATCACCTCTTTACAATGACTATCTCTATTTACGACAGAA
 ATCAGACTN

Restriction Sites:

NotI-NotI

ACCN:

AK096262

Insert Size:

2600 bp

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).

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: [AK096262.1](#)

RefSeq Size: 2299 bp

RefSeq ORF: 2299 bp

Locus ID: 284110

Cytogenetics: 17q21.1

Gene Summary: 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]