

Product datasheet for **RG219050**

GSDMA (NM_178171) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSDMA (NM_178171) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSDMA
Synonyms:	FKSG9; GSDM; GSDM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219050 representing NM_178171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCATGTTTGAAAATGTCACCCGGGCCCTGGCCAGACAGCTAAACCTCGAGGGGACCTGACACCAC
 TTGACAGCCTCATCGACTTCAAGCGCTTCCATCCCTTCTGCCTGGTGCTGAGGAAGAGGAAGAGCAGCCT
 CTTCTGGGGGCCCGGTACGTCCGCACCGACTACACGCTGCTGGATGTGCTTGAGCCCGGACGCTCACCT
 TCAGACCAACAGACACTGGGAATTTGGCTTTAAGAATATGCTGGACCCCGAGTGGAGGGAGATGTGG
 ATGTACCAAGACGGTGAAGGTGAAGGGAACGGCAGGGCTCTCGCAGAACAGCACTCTGGAGGTCCAGAC
 ACTCAGTGTGGCTCCCAAGGCCCTGGAGACCTTGACAGGAGGAAGCTGGCAGCAGACCACCCATTCTG
 AAGGAGATGCAAGATCAAGGGGAGAACCTGTATGTGGTATGGAGGTGGTGGAGACGGTGCAGGAGGTCA
 CACTGGAGCGAGCCGCAAGGCAGAGGCCCTGCTTCTCCCTCCCTTCTTCGCCCCATTGGGGCTACAGGG
 ATCCATAAATCACAAGGAGGCTGAACCATCCCAAGGGCTGCGTCTGGCCTTTTCGAGTGAACAGCTG
 ATGGTCAAAGGCAAAGATGAGTGGGATATTCACATATCTGCAATGATAACATGCAAACCTTCCCTCCTG
 GAGAAAAGTCAGGAGAGGAGAAGGTCATCCTTATCCAGGCATCTGATGTTGGGGACGTACACGAAGGCTT
 CAGGACACTAAAAGAAGAAGTTCAGAGAGAGACCAACAAGTGGAGAAGCTGAGCCGAGTAGGGCAAAGC
 TCCCTGCTCAGCTCCCTCAGCAAACCTTCTAGGGAAGAAAAGGAGCTACAAGACCTTGAGCTCGCACTTG
 AAGGGCTCTAGACAAGGGACATGAAGTGAACCTGGAGGCACTCCCAAAAGATGTCTGCTATCAAAGGA
 GGCCGTGGGCGCCATCCTCTATTTTCGTTGGAGCCCTAACAGAGCTAAGTGAAGCCCAACAGAAGCTGCTG
 GTGAAATCCATGGAGAAAAGATCCTACCCGTGCAGCTAAAGCTGGTGGAGAGCAGATGGAACAGAAGCT
 TCCTGCTGGATAAAGAGGGTGTTTTCCCTGCAACCTGAGCTGCTCCTCCCTTGGGGACGAGGAGCT
 GACCCCTACGGAGGCTCTAGTCGGGCTGAGTGGCCTGGAAGTGCAGAGATCGGGCCCAATATATGTGG
 GACCCAGACACCTCCCTCGCCTCTGTGCTCTTATGCAGGCCTCTCTCTCCTCAGCAGCTTACCAAGG
 CCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219050 representing NM_178171
 Red=Cloning site Green=Tags(s)

MTMFENVTRALARQLNPRGDLTPLDSLIDFKRFHPFCLVLRKRKSTLFWGARYVRTDYTLLDVLEPGSSP
 SDPTDTGNFGFNMLDTRVEGDVDVPKTVKVKGTAGLSQNSTLEVQTLVAPKALETQERKLAADHPFL
 KEMQDQENLYVMEVETVQEVTLERAGKAEACFSLPFFAPLGLQGSINHKEAVTIPKGCVLAFRVRQL
 MVKGDWDIPIHCNDNMQTFPPGEEKSGEEKVILIQASDVGDVHEGFRTLKEEVQRETQQVEKLSRVGQS
 SLLSSLKLLGKKKELQDLELALLEGALDKGHEVNLEALPKDVLLSKEAVGAILYFVGALTELSEAQQKLL
 VKSMEKKILPVQLKLVSTMEQNFLLDKEGVFPLQPELLSSLGDEELTLTEALVGLSGLEVQRSGPQYMW
 DPDTLPRCALYAGLSLLQQLTKAS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_178171

ORF Size: 1335 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.

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_178171.2](#), [NP_835465.1](#)

RefSeq Size: 2168 bp

RefSeq ORF: 1338 bp

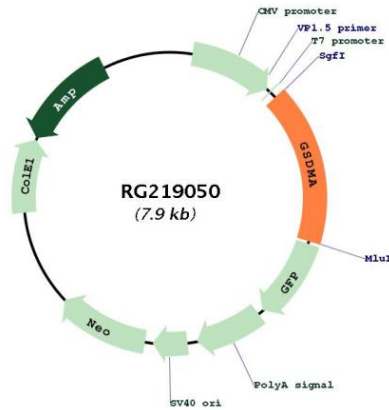
Locus ID: 284110

UniProt ID: [Q96QA5](#)

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]

Product images:

Circular map for RG219050