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Product datasheet for MC215991

Gsdma (NM_021347) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsdma (NM_021347) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gsdma
Synonyms:	BB149167; Gsdm; Gsdm1; Gsdma1; H312E
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC215991 representing NM_021347
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTATGTTTGAGAATGTCACCCGGGCCCTGGCTAGACAGCTGAACCCTCGAGGGGATCTGACACCCC
TAGACAGCCTCATCGACTTCAAACGCTTCCATCCCTTCTGCCTGGTGCTGAGGAAGAGGAAGAGCACACT
GTTCTGGGGAGCCCGCTATGTGCACACCGACTACACTCTCCTGGATGTGCTGGAGCCGGGCAGCTCCCCC
TCAGATCCGACAGACAGTGGCAACTTTAGCTTTAAGAATATGCTGGATGCTCGAGTAGAGGGAGATGTGG
ATGTGCCAAAGACAGTGAAGGTAAAGGGGACTGCGGGTCTGTCACGGAGCAGCACACTGGAGGTGCAGAC
GCTCAGCGTGGCTCCCACGGCTCTGGAGAACTTGCACAAGGAGAGGAAACTGTCAGCAGACCACCCATTC
CTGAAGGAGATGCGGGAACGCGGGGAGAACCTCTATGTGGTGATGGAGGTGGTGGAAACCCTACAGGAAG
TCACTCTGGAGCGAGCCGGCAAGGCAGAGGGCTGCTTCTCTCTCCCCTTCTTTGCCCCACTGGGACTACA
GGGATCCGTGAACCACAAGGAGGCTGTAACCATCCCCAAGGGCTGTGTTCTGGCCTATCGAGTGAGACAA
CTGATGGTCAACGGCAAAGATGAGTGGGGCATTCCACACATTTGCAATGACAGCATGCAAACCTTCCCTC
CTGGAGAAAAGCCAGGAGAAGGGAAGTTCATATTGATCCAGGCATCTGATGTTGGGGAGATGCACGAAGA
CTTCAAGACATTAAAGGAAGAGGTTCAGCGAGAGACTCAGGAAGTGGAGAAGTTAAGTCCAGTGGGGCGA
AGCTCACTACTCACTTCCCTCAGCCATCTCCTAGGAAAGAAGAAAGAGCTCCAGGACCTTGAGCAGACGC
TTGAAGGGGCTCTAGACAAGGGACACGAAGTGACCCTGGAAGCACTCCCCAAAGATGTCCTGCTGTCAAA
GGACGCTATGGACGCCATCCTTTACTTCCTCGGGGCTCTGACAGTGCTAAGTGAAGCCCAACAGAAGCTT
CTAGTAAAATCCTTGGAGAAAAAGATCCTACCGGTGCAACTGAAGCTGGTTGAAAGCACCATGGAGAAGA
ACTTCCTGCAAGATAAAGAGGGTGTTTTCCCCCTGCAACCTGATCTGCTCTCCTCCCTCGGGGAGGAGGA
ACTGATCCTAACAGAAGCACTGGTGGGACTAAGCGGCCTGGAAGTCCAGAGATCAGGCCCCCAGTACACG
TGGGATCCGGACACGCTCCCCCACCTTTGTGCCCTCTATGCTGGCCTCTCCCTCCTTCAACTGCTAAGCA
AGAATTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_021347

Insert Size: 1341 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_021347.4, NP_067322.1
RefSeq Size:	2726 bp
RefSeq ORF:	1341 bp
Locus ID:	57911
UniProt ID:	Q9EST1
Cytogenetics:	11 D
Gene Summary:	May promote pyroptosis. 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. The physiological relevance of these observations is unknown.[UniProtKB/Swiss-Prot Function]