

Product datasheet for **MG216403**

Gsdma2 (NM_029727) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Gsdma2
Synonyms:	2200001G21Rik; 2210006M16Rik; 2210009F20Rik; 2210411P14Rik; Gsdm2; Gsdml2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216403 representing NM_029727
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCTATGTTGAGGATGTCACCCGGCCCTGGCTAGACAGCTGAACCCCTCGAGGGGATCTGACACCCC
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TCAGATCCAACACTCCTTGCAATTTAGCTTTAAGAATATGCTGGATGTCAGAGTAGAGGGAGATGTGG
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GCTCAGTGTGGCTCCACGGCTCTGGAGAATTGCACATGGAGAGGAACTGTGAGCAGACCCCGTTC
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GGACGCCATCTCTACTTCTCGGGCTCTGACAGAGCTAAGTGAAGAACAAGTGAAGATTCTAGTAAAA
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AACAGAAGCACTGGTGGGACTAAGCGCCCTGGAAGTCCAGAGATCAGGGCCCCAGTACACGTGGAATCCA
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



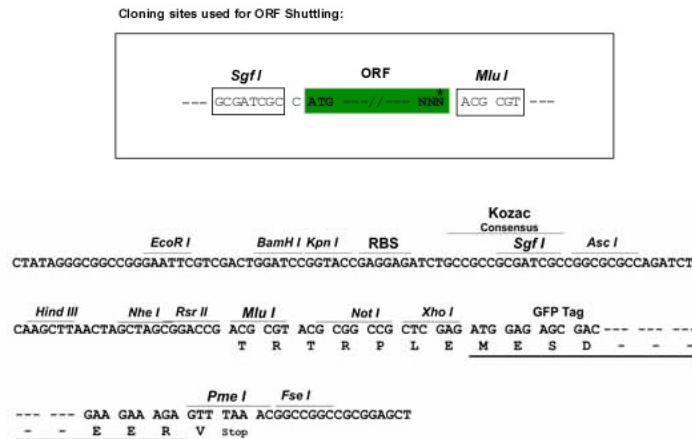
Protein Sequence: >MG216403 representing NM_029727
 Red=Cloning site Green=Tags(s)

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MSMFEDVTRALARQLNPRGDLTPLDSLIDFKRFHPFCLVLRKRKSTLFWGARYVRTDYTLLDVLEPGSSP
SDPTLLGNFSFKNMLDVRVEGDVEVPTMMKVKGTVGLSQSSTLEVQMLSVAPTALENLHMERKLSADHPF
LKEMREYKQNLVYVMEVVKAKQEVTLKRASNAISKFSLNPLSLGLQGSVNHKEAVTIPKGCVLAYRVRL
IIYGKDEWGIPIYICTDNMPTFNPLCVLQRQGSTVQMISGEMHEDFKTLKKEVQQETQEVEKLSVGRSSL
LTSLSHLLGKKKELQDLEQMLEGALDKGHEVTLEALPKDVLKLLKAMDAILYFLGALTELSEEQLKILVK
SLENKVLVQLKLVESILEQNFLQDKEDVFPLRPDLLSSLGEEDQILTEALVGLSGLEVQRSGPQYTWNP
DTCHNLICALYAGLSLLHLLSRDS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029727

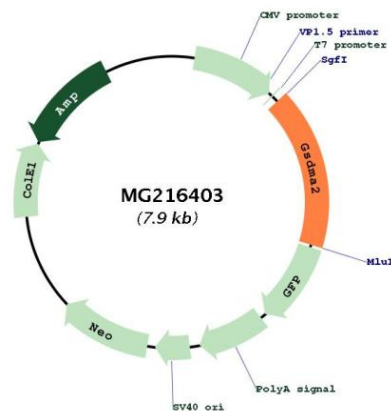
ORF Size: 1329 bp

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:	<ol style="list-style-type: none">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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_029727.3
RefSeq Size:	1666 bp
RefSeq ORF:	1332 bp
Locus ID:	76758
UniProt ID:	Q32M21
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]

Product images:

Circular map for MG216403