

## Product datasheet for RC219044

### Gasdermin like (GSDMB) (NM\_001042471) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gasdermin like (GSDMB) (NM_001042471) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gasdermin like
Synonyms:	GSDMB-1; GSDML; PP4052; PRO2521
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219044 representing NM_001042471 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAGCGTATTTGAGGAAATCACAAGAATTGTAGTTAAGGAGATGGATGCTGGAGGGGATGATTG  
CCGTTAGAAGCCTTGTTGATGCTGATAGATTCCGCTGCTCCATCTGGTGGGGGAGAAGAGAAGCTTTCTT  
TGGATGCCGGCACTACACAACAGGCCTCACCTGATGGACATTCTGGACACAGATGGGGACAAGTGGTTA  
GATGAAGTGGATTCTGGGCTCAAGGTCAAAGGCTGAGTTTCAAATTCTGGATAATGTAGACTCAACGG  
GAGAGTTGATAGTGAGATTACCCAAAGAAATAACAATTCAGGCAGTTTCCAGGGCTTCCACCATCAGAA  
AATCAAGATATCGGAGAACCGGATATCCAGCAGTATCTGGCTACCTTGAACAGGAAGCTGAAGAGG  
GAACTACCTTTTCATTCCGATCAATTAATACGAGAGAAAACCTGTATCTGGTGACAGAAAACCTGAGAG  
CGGTAAAGGAGGAAACCTGAAAAGCGACCGGCAATATAAATTTGGAGCCAGATCTCTCAGGGCCATCT  
CAGCTATAAACACAAGGGCCAAAGGGAAGTGACCATCCCCCAAATCGGGTCTGAGCTATCGAGTAAAG  
CAGCTTGTCTTCCCCAACAGGAGACGATGAAGAAGGATGGTGCCTCATCCTGTTTAGGAAAAGTCTTTGG  
GTTCCGAGGATCCAGAAACATGAAGGAGAAGTTGGAGGACATGGAGAGTGTCTCAAGGACCTGACAGA  
GGAGAAGAGAAAAGATGTGCTAACTCCCTCGCTAAGTGCCTCGCAAGGAGGATATTCGCAGGATCTA  
GAGCAAAGAGTATCTGAGGTCCTGATTTCCGGGGAGCTACACATGGAGGACCCAGACAAGCCTCTCCTAA  
GCAGCCTTTTAAATGCTGCTGGGGTCTTGGTAGAAGCGCGTGCAAAGCCATTCTGGACTTCTGGATGC  
CCTGCTAGAGCTGTCTGAAGAGCAGCAGTTTGTGGCTGAGGCCCTGGAGAAGGGGACCCTTCTCTGTTG  
AAGGACCAGGTGAAATCTGTCATGGAGCAGAACTGGGATGAGCTGGCCAGCAGTCTCTGACATGGACT  
ATGACCCTGAGGCACGAATTCTCTGTGCGCTGTATGTTGTTGTCTCTATCCTGCTGGAGCTGGCTGAGGG  
GCCTACCTCTGTCTTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219044 representing NM\_001042471  
 Red=Cloning site Green=Tags(s)

MFSVFEEITRIVVKEMDAGGDMIAVRSLVDADRFRCFHLVGEKRTFFGCRHYTTGLTMDILDTDGDKWL  
 DELDSSLGQQAQAEFQILDNDVSTGELIVRLPKEITISGSFQGFHHQKIKISENRISQQYLATLENRKLKR  
 ELPF SFRSINTRENLYLVTETLETVKEETLKSDRQYKFSQISQGHLSYKHKGQREVTIPPNRVLSYRVK  
 QLVFVNKETMKKDGASSCLGKSLGSEDSRNMKEKLEDMESVLKDLTEEKRKDVLSLAKCLGKEDIRQDL  
 EQRVSEVLI SGELHMEDPDKPLLSL FNAAGVLVEARAKAILEDLALLELSEEQQFVAEAELEKGTLP  
 KDQVKSVMQNWDELASSPPMDYDPEARILCALYVVVSILLELAEGPTSVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001042471

**ORF Size:** 1209 bp

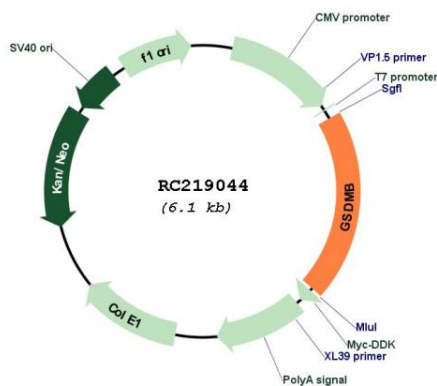
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

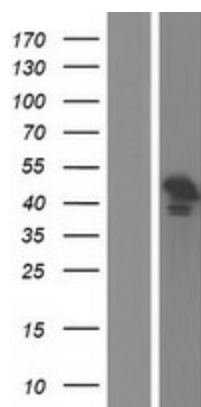
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>	<u>NM_001042471.1, NP_001035936.1</u>
<b>RefSeq Size:</b>	1578 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	55876
<b>UniProt ID:</b>	<u>Q8TAX9</u>
<b>Cytogenetics:</b>	17q21.1
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	This gene encodes a member of the gasdermin-domain containing protein family. Other gasdermin-family genes are implicated in the regulation of apoptosis in epithelial cells, and are linked to cancer. Alternative splicing and the use of alternative promoters results in multiple transcript variants. Additional variants have been described, but they are candidates for nonsense-mediated mRNA decay (NMD) and are unlikely to be protein-coding. [provided by RefSeq, Nov 2016]

**Product images:**



Circular map for RC219044



Western blot validation of overexpression lysate (Cat# [LY420925]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219044 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).