

Product datasheet for **RC230159**

Gasdermin D (GSDMD) (NM_001166237) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gasdermin D (GSDMD) (NM_001166237) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gasdermin D
Synonyms:	DF5L; DFNA5L; FKSG10; GSDMDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230159 representing NM_001166237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTCGGCCTTTGAGCGGGTAGTCCGGAGAGTGGTCCAGGAGCTGGACCATGGTGGGGAGTTTCATCC
 CTGTGACCAGCCTGCAGAGCTCCACTGGCTTCCAGCCCTACTGCCTGGTGGTTAGGAAGCCCTCAAGCTC
 ATGGTTCTGAAAACCCGTTATAAGTGTGTCAACCTGTCTATCAAGGACATCCTGGAGCCGGATGCCCGG
 GAACCAGACGTGCAGCGTGGCAGGAGCTTCCACTTCTACGATGCCATGGATGGGCAGATACAGGGCAGCG
 TGGAGCTGGCAGCCCAGGACAGGCAAAGATCGCAGGCGGGGCCGCGGTGTCTGACAGCTCCAGCACCTC
 AATGAATGTGTACTCGCTGAGTGTGGACCCTAACACCTGGCAGACTCTGCTCCATGAGAGGCACCTGCGG
 CAGCCAGAACACAAAGTCTGCAGCAGCTGCGCAGCCGCGGGGACAACGTGTACGTGGTGACTGAGGTGC
 TACAGACACAGAAGGAGGTGGAAGTACGCGCACCCACAAGCGGGAGGGCTCGGGCCGGTTTTCCCTGCC
 CGGAGCCACGTGCTTGCAGGGTGAAGGAGGCGCCATCTGAGCCAGAAGAAGACGGTACCATCCCCTCA
 GGACGACCCCTCGATTCCGGGTGGCCAGCTGGTTATTGACTCTGACTTGGACGTCCTTCTCTCCCGG
 ATAAGAAGCAGAGGACCTTCCAGCCACCCGCGACAGGCCACAAGCGTTCACGAGCGAAGGCCCTGGCC
 ACAGCTGCCCTCTGGCCTCTCCATGATGAGGTGCCTCCACAATTCTGACAGATGGGGTCCCTGCGGAG
 GGGGCGTTCACTGAAGACTTCCAGGGCCTACGGGCAGAGGTGGAGACCATCTCCAAGGAAGTGGAGCTTT
 TGGACAGAGAGCTGTGCCAGCTGCTGCTGGAGGGCCTGGAGGGGTGCTGCGGGACAGCTGGCCCTGCG
 AGCCTTGGAGGAGGCGTGGAGCAGGGCCAGAGCCTTGGCCGGTGGAGCCCTGGACGGTCCAGCAGGT
 GCTGTCTGGAGTGCCTGGTGTGTCTCCGGAATGCTGGTCCCGAATCGCTATCCCTGTTGTCTACC
 TGCTGGGGCACTGACCATGCTGAGTGAACGCAGCACAAGCTGCTGGCGGAGGCCTGGAGTCCGAGAG
 CCTGTTGGGGCCGCTCGAGCTGGTGGGACGCTTGGAGCAGAGTGCCTGGAGGAGGAGGAGCGCAGCACC
 ATGTCCCTGCCCGCGGCTCCTGGGAACAGCTGGGGCAAGGAGCACCAGGCTGGGTCTGCTGGACG
 AGTGTGGCCTAGAGCTGGGGGAGGACACTCCCCACGTGTGCTGGGAGCCGAGGCCAGGGCCGATGTG
 TGCCTCTACGCCTCCCTGGCACTGCTATCAGGACTGAGCCAGGAGCCCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230159 representing NM_001166237
 Red=Cloning site Green=Tags(s)

MGSAFERVVRVQELDHGGEFIPVTSLSSTGFQPYCLVVRKPSSSWFWKPRYKCVNLSIKDILEPDAA
 EPDVQRGRSFHFYDAMDGQIQGSVELAAPGQAKIAGGAAVSDSSSTSMNVYSLVDPNTWQTLHERHLR
 QPEHKVLQQLRSRGNVYVVEVLQTQKEVEVTRTHKREGSGRFSLPATCLQEGQGHLQKKTVTIPS
 GSTLAFRVAQLVIDSDLVLLFPDKKQRTFQPPATGHRKSTSEGAWPQLPSGLSMMRCLHNFLTDGVP
 GAFTEDFQGLRAEVETISKELELLDRELCQLLLEGLVLRDQLALRALEEALEQGSQSLGPVEPLDGPAG
 AVLECLVLSGMLVPELAIPVVYLLGALTMLSETQHKLLAEALQSQTLLGPLELVGSLLEQSAPWQERST
 MSLPPGLLGNSWEGEPAWVLLDECGLELGEDTPHVCWEPQAQGRMCALYASLALLSGLSQEPH

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001166237

ORF Size: 1452 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](#)

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

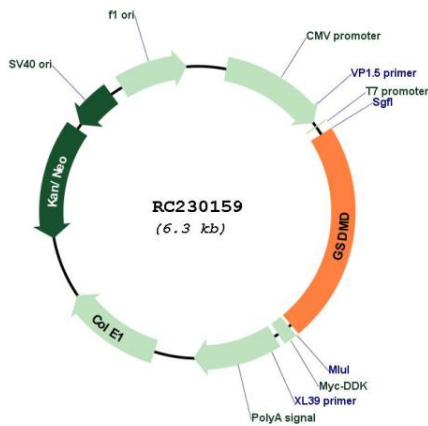
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001166237.1](#), [NP_001159709.1](#)
RefSeq ORF: 1455 bp
Locus ID: 79792
UniProt ID: [P57764](#)
Cytogenetics: 8q24.3
MW: 53.3 kDa

Gene Summary: Gasdermin D is a member of the gasdermin family. Members of this family appear to play a role in regulation of epithelial proliferation. Gasdermin D has been suggested to act as a tumor suppressor. Alternatively spliced transcript variants have been described. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC230159