

Product datasheet for **RG230159**

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:	TurboGFP
Symbol:	Gasdermin D
Synonyms:	DF5L; DFNA5L; FKSG10; GSDMDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230159 representing NM_001166237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGTCGGCCTTTGAGCGGGTAGTCCGGAGAGTGGTCCAGGAGCTGGACCATGGTGGGGAGTTCATCC
 CTGTGACCAGCCTGCAGAGCTCCACTGGCTTCCAGCCCTACTGCCTGGTGGTTAGGAAGCCCTCAAGCTC
 ATGGTTCTGAAAACCCGTTATAAGTGTGTCAACCTGTCTATCAAGGACATCCTGGAGCCGGATGCCCGG
 GAACCAGACGTGCAGCGTGGCAGGAGCTTCCACTTCTACGATGCCATGGATGGGCAGATACAGGGCAGCG
 TGGAGCTGGCAGCCCCAGGACAGGCAAAGATCGCAGGCGGGGCGCGGTGTCTGACAGCTCCAGCACCTC
 AATGAATGTGTACTCGTGTGAGTGTGGACCCTAACACCTGGCAGACTCTGCTCCATGAGAGGCACCTGCGG
 CAGCCAGAACACAAAGTCTGCAGCAGCTGCGCAGCCGCGGGGACAACGTGTACGTGGTACTGAGGTGC
 TGCAGACACAGAAGGAGGTGGAAGTACGCGCACCCACAAGCGGGAGGGCTCGGGCCGGTTTTCCCTGCC
 CGGAGCCACGTGCTTGCAGGGTGGGGCCAGGGCCATCTGAGCCAGAAGAAGACGGTACCATCCCCTCA
 GGACGACCCCTCGATTCCGGGTGGCCAGCTGGTTATTGACTCTGACTTGGACGTCCTTCTCTCCCGG
 ATAAGAAGCAGAGGACCTTCCAGCCACCCGCGACAGGCCACAAGCGTTCACGAGCGAAGGGCCTGGCC
 ACAGCTGCCCTCTGGCCTCTCCATGATGAGGTGCCTCCACAATTCTGACAGATGGGGTCCCTGCGGAG
 GGGGCGTTCAGTGAAGACTTCCAGGGCCTACGGGCAGAGGTGGAGACCATCTCCAAGGAAGTGGAGCTTT
 TGGACAGAGAGCTGTGCCAGCTGCTGCTGGAGGGCCTGGAGGGGTGCTGCGGGACAGCTGGCCCTGCG
 AGCCTTGGAGGAGGCGCTGGAGCAGGGCCAGAGCCTTGGCCGGTGGAGCCCTGGACGGTCCAGCAGGT
 GCTGTCTGGAGTGCCTGGTGTGTCTCCGGAATGCTGGTCCCGAATCGCTATCCCTGTTGTCTACC
 TGCTGGGGCAGTACCATGCTGAGTGAACCGCAGCACAAGCTGCTGGCGGAGGCCTGGAGTCCAGCAGC
 CCTGTTGGGGCCGCTCGAGCTGGTGGGAGCCTCTTGGAGCAGAGTGCCCGTGGCAGGAGCGCAGCACC
 ATGTCCCTGCCCGGGCTCCTGGGAAACAGCTGGGGCAAGGAGCACCGGCCTGGGTCTTGTGGACG
 AGTGTGGCCTAGAGCTGGGGGAGGACACTCCCCACGTGTGCTGGGAGCCGAGGCCAGGGCCGATGTG
 TCGACTTACGCCTCCCTGGCACTGCTATCAGGACTGAGCCAGGAGCCCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230159 representing NM_001166237
 Red=Cloning site Green=Tags(s)

MGSAFERVVRRVQELDHGGEFIPVTSLSQSTGFQPYCLVVRKPSSSWFWKPRYKCVNLSIKDILEPDAA
 EPDVQRGRSFHFYDAMDGQIQGSVELAAPGQAKIAGGAAVSDSSSTSMNVYSLVDPNTWQTLHERHLR
 QPEHKVLQQLRSRGNVYVVEVLQTQKEVEVTRTHKREGSGRFSLPATCLQGEGQGHLSQKKTVTIPS
 GSTLAFRVAQLVIDSDLVLLFPDKKQRTFQPPATGHRKSTSEGAWPQLPSGLSMMRCLHNFLTDGVPAE
 GAFTEDFQGLRAEVETISKELELLDRELCQLLLEGLEGLVLRDQLALRALEEALQGSQSLGPVEPLDGPAG
 AVLECLVLSGMLVPELAIPVVYLLGALTMLSETQHKLLEALESQTLGPLELVGSLLEQSAPWQERST
 MSLPPGLLGNWGE GAPAWLLDECGLELGEDTPHVCWEPQAQGRMCALYASLALLSGLSQEPH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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.

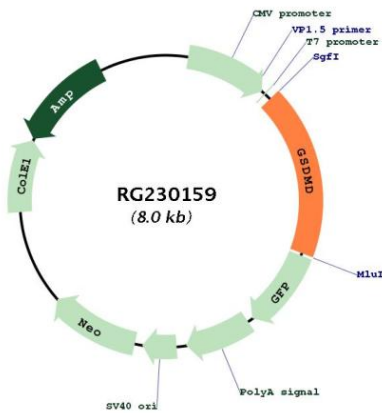
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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 Size: 2326 bp
RefSeq ORF: 1455 bp
Locus ID: 79792
UniProt ID: [P57764](#)
Cytogenetics: 8q24.3

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 RG230159