

Product datasheet for **RC203399**

Gasdermin D (GSDMD) (NM_024736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gasdermin D (GSDMD) (NM_024736) 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:

>RC203399 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGTCGGCCTTTGAGCGGGTAGTCCGGAGAGTGGTCCAGGAGCTGGACCATGGTGGGGAGTTTCATCC
 CTGTGACCAGCCTGCAGAGCTCCACTGGCTTCCAGCCCTACTGCCTGGTGGTTAGGAAGCCCTCAAGCTC
 ATGGTTCTGAAAACCCGTTATAAGTGTGTCAACCTGTCTATCAAGGACATCCTGGAGCCGGATGCCGCG
 GAACCAGACGTGCAGCGTGGCAGGAGCTTCCACTTCTACGATGCCATGGATGGGCAGATACAGGGCAGCG
 TGGAGCTGGCAGCCCAGGACAGGCAAAGATCGCAGGGCGGGCCGCGGTGTCTGACAGCTCCAGCACCTC
 AATGAATGTGTACTCGCTGAGTGTGGACCCTAACACCTGGCAGACTCTGCTCCATGAGAGGCACCTGCGG
 CAGCCAGAACACAAAGTCTGCAGCAGCTGCGCAGCCGCGGGGACAACGTGTACGTGGTACTGAGGTGC
 TACAGACACAGAAGGAGGTGGAAGTACGCGCACCCACAAGCGGGAGGGCTCGGGCCGGTTTTCCCTGCC
 CGGAGCCACGTGCTTGCAGGGTGGGGCCAGGGCCATCTGAGCCAGAAGAAGACGGTACCATCCCCTCA
 GGACGACCCCTCGATTCCGGGTGGCCAGCTGGTTATTGACTCTGACTTGGACGTCCTTCTCTCCCGG
 ATAAGAAGCAGAGGACCTTCCAGCCACCCGCGACAGGCCACAAGCGTTCACGAGCGAAGGGCCTGGCC
 ACAGCTGCCCTCTGGCCTCTCCATGATGAGGTGCCTCCACAATTCTGACAGATGGGGTCCCTGCGGAG
 GGGGCGTTCAGTGAAGACTTCCAGGGCCTACGGGCAGAGGTGGAGACCATCTCCAAGGAAGTGGAGCTTT
 TGGACAGAGAGCTGTGCCAGCTGCTGCTGGAGGGCCTGGAGGGGTGCTGCGGGACAGCTGGCCCTGCG
 AGCCTTGGAGGAGGCGCTGGAGCAGGGCCAGAGCCTTGGCCGGTGGAGCCCTGGACGGTCCAGCAGGT
 GCTGTCTGGAGTGCCTGGTGTGTCTCCGGAATGCTGGTCCCGGAATCGCTATCCCTGTTGTCTACC
 TGCTGGGGCAGTACCATGCTGAGTGAACCGCAGCACAAGCTGCTGGCGGAGGCGCTGGAGTCCGAGAC
 CCTGTTGGGGCCGCTCGAGCTGGTGGGACGCTCTTGGAGCAGAGTGCCCGTGGCAGGAGCGCAGCACC
 ATGTCCCTGCCCCCGGGCTCCTGGGAAACAGCTGGGGCAAGGAGCACCGGCCTGGGTCTTGTGGACG
 AGTGTGGCCTAGAGCTGGGGGAGGACACTCCCCACGTGTGCTGGGAGCCGAGGCCAGGGCCGATGTG
 TGCACTTACGCCTCCCTGGCACTGCTATCAGGACTGAGCCAGGAGCCCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203399 protein sequence
 Red=Cloning site Green=Tags(s)

MGSAFERVVRVQELDHGGEFIPVTSLSQSTGFQPYCLVVRKPSSSWFWKPRYKCVNLSIKDILEPDAA
 EPDVQRGRSFHFYDAMDGQIQGSVELAAPGQAKIAGGAAVSDSSSTSMNVYSLSDPNTWQTLHERHLR
 QPEHKVLQQLRSRGNVYVVEVLQTQKEVEVTRTHKREGSGRFSLPATCLQEGQGHLQKKTVTIPS
 GSTLAFRVAQLVIDSDLVLLFPDKKQRTFQPPATGHRKSTSEGAWPQLPSGLSMMRCLHNFLTGDVPAE
 GAFTEDFQGLRAEVETISKELELLDRELCQLLLEGLEGLVLRDQLALRALEEALEQQSLGPVEPLDGPAG
 AVLECLVLSGMLVPELAIPVVYLLGALTMLSETQHKLLAEALQSQTLLGPLELVGSLLEQSAPWQERST
 MSLPPGLLGNSWEGEPAWVLLDECGLELGEDTPHVCWEPQAQGRMCALYASLALLSGLSQEPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6668_d05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_024736

ORF Size: 1452 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:

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_024736.5](#), [NP_079012.3](#)
RefSeq Size: 1772 bp

RefSeq ORF: 1455 bp

Locus ID: 79792

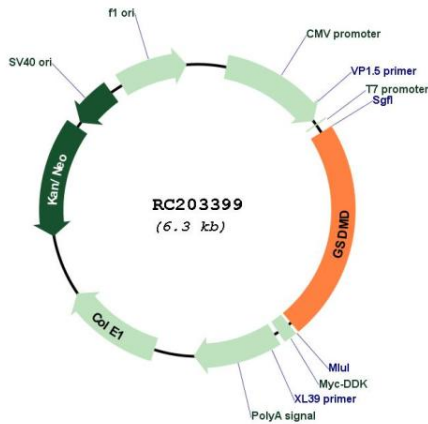
UniProt ID: [P57764](#)
Cytogenetics: 8q24.3

Domains: DFNA5

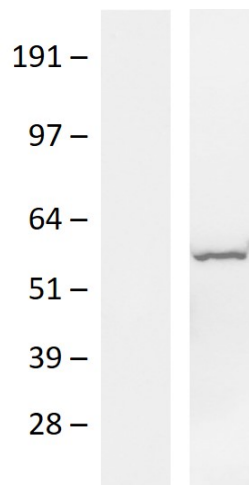
MW: 52.8 kDa

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 RC203399



Western blot validation of overexpression lysate (Cat# [LY411132]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203399 using transfection reagent PEI.