

Product datasheet for **RG223817**

GSDMC (NM_031415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSDMC (NM_031415) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSDMC
Synonyms:	MLZE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223817 representing NM_031415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCCTCCATGTTGGAACGCATTAGCAAAAATTGGTCAAAGAGATTGGAAGCAAAGACCTGACATCTG
 TCAATACCTATTGAGTGCCACCAAATTACGTCAGTTTGTATATTACGAAAGAAGAAGGATTCTCGTTC
 ATCATTTTGGGAACAATCTGACTATGTTCCAGTTGAATTCTCCCTCAATGACATCTGGAGCCAAGTTCT
 TCAGTCTAGAACTGTTGTGACAGGACCGTTCCACTTCAGTGACATTATGATCCAGAAGCATAAGGCTG
 ACATGGGTGTGAATGTTGGTATAGAAGTGAGTGTGTGAGGGGAGGCCTCTGTGGACCATGGATGCTCCCT
 CGAGTTTCAAATTGTTACCATCCCATACCAAACCTGGAAGACTTTCAAAAAGGAACTGTTGGATCCA
 GAGCCATCATTTCTGAAGGAGTGCCGAGGAGAGGGGACAACCTGTACGTGGTGACAGAGGCTGTTGAAC
 TGATCAACAATACTGTGCTGTACGATAGCAGTAGTGTGAATATTTAGGGAAAATTGCTCTTTGATTAC
 CTATGGCAAGGGTCAAGGCCAAGGAGAGAGTCTCAGAGTGAAGAAGAAGCGCTGACTCTTCAGAAAGGC
 ATGGTGATGGCTTATAAGAGAAAGCAGCTGTTATCAAGGAGAAAGCCATTCTCATCTCAGATGATGATG
 AACAGAGAACCTTTCAAGATGAGTACGAAATTTCCGAAATGGTAGGCTACTGTGCTGCGAGGAGTGAGGG
 GTTGCTACCATCATTTACATACCCTCTCTCAACCTCTTCAATGCCTCATCCAATGATATGAAGTTAAAA
 CCAGAGCTATTTCTGACACAGCAATTTTGAGCGGGCATTTGCCAAAATACGAACAAGTTCACATCCTCC
 CAGTAGGAAGAATAGAGGAACCTTCTGGCAAAATTTCAAGCATCTACAAGAGGAGGTTTTCCAGAAAAT
 AAAGACACTGGCTCAGCTCTCAAAGGATGTTCCAGGATGTCATGTTCTACAGTATCCTGGCCATGCTCAGA
 GACAGAGGGGCTCTACAGGACCTGATGAACATGCTGGAATTGGACAGCTCAGGTCAATTTGGATGGCCCTG
 GTGGTGCCATCTAAAGAACTTCAACAGGATTCAAACCATGCATGGTTTAACCCAAAGGACCCATTCT
 TTATCTCCTTGAAGCCATAATGGTGCTGAGTGACTTCCAACACGATTTGCTGGCCTGTTCCATGGAGAAG
 AGGATCTGCTTCAAGCAAGGAGCTGGTAAGGAGCATCTGGAGCCAACTTCAGATACCCCTGGAGCA
 TTCCCTTCAACCTCAAACCTGAGCTCTCGCCCCACTCCAGAGTGAGGGTTTGGCCATCACCTATGGCCT
 GCTGGAGGAGTGTCCTTAGGACGGAGCTGGATAACCCAGGTCAACCTGGGATGTAGAAGCAAAGATG
 CCCCTGTCTGCCCTCTATGGGACTCTCTATTGCTGCAGCAGCTGGCTGAGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223817 representing NM_031415
 Red=Cloning site Green=Tags(s)

MPSMLERISKNLVKEIGSKDLTSVKYLLSATKLRQFVILRKKKDSRSSFWQSDYVPVEFSLNDILEPSS
 SVLETVVTGPFHFSDDIMIQKHKADMGNVVGIEVSVSGEASVDHGCSLEFQIVTIPSPNLEDFQKRKLLDP
 EPSFLKECRRRGDNLVYVTEAVELINNTVLYDSSSVNILGKIALWITYGKGQGGESLRVKKKALTLQKG
 MVMAYKRKQLVIKEKAILISDDDEQRTFQDEYEISEMVGYCAARSEGLLPSTFTISPTLFNASSNDMKLK
 PELFLTQQFLSGHLPKYEQVHILPVGRIEEPFWQNFHKLQEEVFQKIKTLAQLSKDVQDVMFYSLAMLR
 DRGALQDLMNMLELDSSGHLDPGGAILKKLQQDSNHAWFNPKDPILYLLEAIMVLSDFFQHDLLACSMK
 RILLQQQELVRSILEPNFRYPWSIPFTLKPELLAPLQSEGLAITYGLLEECGLRTELDPNPRSTWDVEAKM
 PLSALYGTLSLLQQLAEA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_031415

ORF Size: 1524 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031415.1](#), [NP_113603.1](#)

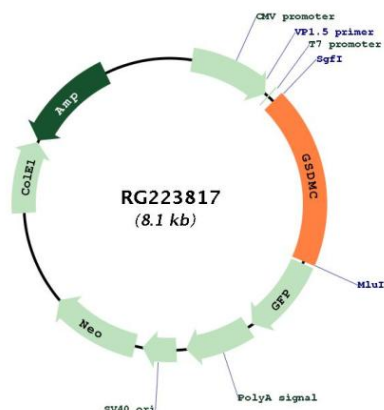
RefSeq Size: 2758 bp

RefSeq ORF: 1527 bp

Locus ID: 56169

UniProt ID:	<u>Q9BYG8</u>
Cytogenetics:	8q24.21
Domains:	DFNA5
Gene Summary:	The N-terminal moiety promotes pyroptosis. May be acting by homooligomerizing within the membrane and forming pores (PubMed:27281216). The physiological relevance of this observation is unknown (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG223817