

Product datasheet for **MC219569**

Prdm6 (NM_001033281) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm6 (NM_001033281) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prdm6
Synonyms:	Gm92; PRISM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219569 representing NM_001033281
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGAAGCGGGGATCCCGCGGCTCGGCCTTCTCAAAGTGGACCCAGCTTACCTGCAGACTGGC
 AGCAACTTCCCGCACGAGGCGGCGGCGGCCCGCTCAAAGCCAGTGGCGCCGCGCTCGCCCTGGG
 CGCCCCACAGCCCTGCAGCCACCGCCACCGCCCGCCCTCTCTCCCGAGCGCCGAGCCTCTCCA
 GACGGCTGCGGCCGCGGCTGCCTCGCTCTCGTCCACCCGGCTCCTTCTCCACCTCTGCCTTCTG
 CCTTCTCGCGCCGAGCCGCGGCCGCGCTGCGCTGGCGGTCTCTCGGCCCTGCCGGTGGCACAGAT
 GCCGGTGTTCGCTCTAGCTGCTGCTGTGGCCGCGGAGCCACTGCCCCAAAGGACCTGTGCCTC
 GGCCTCCGCGGCCCGGGCCGCAAGTGCGGCGGCGGCGGTGGCAGCGTGGGGACGGCCGTGGCG
 TCCACGTTTCCGCTGCAGCGCGGAGGAGCTGGACTATTACCTGTACGGGCAGCAGCGCATGGAAATCAT
 CCCGCTCAACCAGCACACCAGCGACCCCAACAACCGTTGCGATATGTGCGCGGACAACCGTAACGGGGAG
 TGCCCATGCACGGGCCACTGCACTCGCTGCGCCGGCTCGTGGGACCAGCAGCGCGGCCCGCTGCAC
 CCCC GCCGGAGCTGCCGAGTGGCTTCGGGATCTGCCGCGGGAGGTGTGCCTGTGTACCAGCACGGTGCC
 AGGCCTGGCGTATGGCATCTGTGCCGCGCAGAGGATCCAGCAGGGCACCTGGATTGGGCCCTTCCAGGGC
 GTGCTTGTCCCGGAGAAAGTGCAGACCGGCGTAGTGAGGAACACGCAGCATCTCTGGGAGATATATG
 ACCAAGATGGGACACTTCAGCACTTTATTGATGGTGGGGAGCCTAGTAAGTCGAGCTGGATGAGGTATAT
 CCGATGTGCAAGGCACTGTGGAGAACAAGTCTAACAGTAGTTCAGTACAGGTGCAATATATTCTACCGA
 GCCTGTATAGATATCCCCAGGGGCACCGAGCTCCTGGTGTGTTACAATGACAGCTATACATCTTTCTTTG
 GGATCCCTTTACAATGCATTGCCAGGATGAAAACCTTGAACGTCCCTTCCACCGTAATGGAAGCCATGTG
 CGGACAGGATGCCCTGCAGCCCTTCAACAAAAGCAGCAAGCTTTCTCCCTCGGGCCAGCAGCGCTCCGTG
 GTTTTCCACAGACTCCCTGCAGCAGGAATTTCTCCCTTTGGATAAATCTGGGCCATGGAGGCAGGAT
 TTAACCAATCAACGTGAAGAATCAGAGGGTCTGGCGAGCCAACTCAACCAGCCAGCTGCACTCGGA
 GTTCAGCGACTGGCATCTCTGGAAGTGGGCCAGTGTCTTAAGACTTTCACGCAGCGCATTCTCTGCGAG
 ATGCATGTGTGCACGCAGAACCCCGACAGACCCTACCAGTGTGGCCACTGCTCACAGTCTTTTCCAGC
 CGTCAGAACTGAGGAACCACGTAGTCACTCACTCCAGTGACCGGCCCTTCAAGTGGGCTACTGTGGCCG
 TCGTTTTGCCGGAGCCACCCTCAACAACCACATCCGGACCCACACTGGAGAAAAGCCCTTCAAGTGC
 GAGAGGTGCGAAAGGAGCTTCAACCAGGCCACGCAGCTGAGTCGACACCAGCGCATGCCAATGAGTGCA
 AGCCGATAACCGAGAGCCCGGAATCAATCGAAGTGGATTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2647_c02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001033281

Insert Size: 1791 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
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:	<ol style="list-style-type: none"> 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_001033281.3 , NP_001028453.1
RefSeq Size:	2601 bp
RefSeq ORF:	1791 bp
Locus ID:	225518
UniProt ID:	Q3UZD5
Cytogenetics:	18 D1
Gene Summary:	Putative histone methyltransferase that acts as a transcriptional repressor of smooth muscle gene expression (PubMed:16537907, PubMed:17662997). Promotes the transition from differentiated to proliferative smooth muscle by suppressing differentiation and maintaining the proliferative potential of vascular smooth muscle cells (PubMed:27181681, PubMed:16537907, PubMed:17662997). Also plays a role in endothelial cells by inhibiting endothelial cell proliferation, survival and differentiation. It is unclear whether it has histone methyltransferase activity in vivo. According to some authors, it does not act as a histone methyltransferase by itself and represses transcription by recruiting EHMT2/G9a (PubMed:16537907). According to others, it possesses histone methyltransferase activity when associated with other proteins and specifically methylates 'Lys-20' of histone H4 in vitro. 'Lys-20' methylation represents a specific tag for epigenetic transcriptional repression (PubMed:17662997).[UniProtKB/Swiss-Prot Function]