

Product datasheet for **RC227008**

PRDM6 (NM_001136239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM6 (NM_001136239) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRDM6
Synonyms:	KMT8C; PDA3; PRISM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227008 representing NM_001136239
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAAGCCCGGAGACCCCGCGGTTTCGGCCTTCTCAAAGTGGACCCAGCCTACCTGCAGACTGGC
 AGCAACTTTCCTCACGGAGGCCAGGCCCGCTCAAGGGCAGCGCGCCGCGGGTCTCCTGAGCGCGCC
 GCAGCCTTTCAGCCGCCCGCCGCCCGCCCGCCCGGAGCGCGCTGAGCCTCCGCCGGACAGCCTGCGC
 CCGCGGCCCGCTCTCTCTCCTCCGCTCGTCCACGCCGCTTCTCTTCCACCTCCGCCTCCTCCGCCT
 CCTCTGCGTGTGCGGCCGCTGCCGCCGCGTGGTGGTCTCTCGGCCCTGCCGGTGTGCGAGCTGCC
 GGTGTTGCGCCTTAGCCGCCGCTGCCGTGCCGCCGAGCCGCTGCCCCCAAGAACTGTGCCTCGGC
 GCCACCTCCGGCCCGGGCCCGTCAAGTGGTGGTGGTGGCGCGCGGGGAGGGTGCAGCGCCCGCC
 CGCGCTTCCGCTGCAGCGCAGAGGAGCTGGACTATTACCTGTATGGCCAGCAGCGCATGGAGATCATCC
 GCTCAACCAGCACACCAGCGACCCAACAACCGTTGCGACATGTGCGCGACAACCGCAACGGCGAGTGC
 CCTATGCATGGGCCACTGCACTCGCTGCCCGGCTTGTGGGCACCAAGCAGCGCTGCGGCCCGCGCCCG
 CGCCGGAGCTGCCGGAGTGGCTGCGGGACCTGCCTCGCGAGGTGTGCCTCTGCACCACTACTGTGCCCG
 CCTGGCCTACGGCATCTGCGCGCGCAGAGGATCCAGCAAGGCACCTGGATTGGACCTTTCGAAGCGTG
 CTTCTGCCCCAGAGAAGGTGCAGGCAGGCCCGTGGAGAACACGCAGCATCTCTGGGAGATATATGACC
 AGGATGGGACACTACAGCACTTATTGATGGTGGGAACTAGTAAGTCGAGCTGGATGAGGTATATCCG
 ATGTGCAAGGCACTGCGGAGAACAAGTAACTAACAGTAGTTCAGTACAGGTGCAATATATTCTACCGAGCC
 TGTATAGATATCCCTAGGGGCACCGAGCTTCTGGTGTGGTACAATGACAGCTATACGTCTTTCTTTGGGA
 TCCCTTACAATGCATTGCCAGGATGAAAATTAATGTCCCTCAACGGTAATGGAAGCCATGCGAG
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 CAGTGACTGGCATCTTTGAAAATGTGGGCACTGCTTAAAGACTTTCACCCAGCGGATCCTCTTACAGATG
 CACGTGTGCAGCAGAACCCCGACAGACCCTACCAATGCGGCCACTGCTCCAGTCTTTTCCAGCCTT
 CAGAACTGAGGAACCACGTGGTCACTACTCTAGTGACCGGCTTCAAGTGGGCTACTGTGGTGTGTC
 CTTTCCGGGGCCACCACCTCAACAACCACATCCGAACCCACTGGAGAAAAGCCCTTCAAGTGGAG
 AGGTGTGAGAGGAGCTTACGCAGGCCACCCAGCTGAGCCGACACCAGCGGATGCCCAATGAGTGAAGC
 CAATAACTGAGAGCCAGAATCAATCGAAGTGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227008 representing NM_001136239
 Red=Cloning site Green=Tags(s)

MLKPGDPGGSFLKVDPAYLQHWQQLFPHGGAGPLKGSAAAGLLSAPQPLQPPPPPPPERAEPDPSLR
 PRPASLSSASSTPASSSTSASSASSCAAAAAAALAGLSALPVSQPLVFAPLAAAAVAEPLPPKELCLG
 ATSGPGPVKCGGGGGGEGRGAPRFRCSAEELDYLYGQQRMEIIPLNQHTSDPNNRCDMCDNRNGEC
 PMHGPHSLRRLVGTSSAAAAAPPELPEWLRDLPREVCLCTSTVPGLAYGICAAQRIQQGTWIGPFQGV
 LLPPEKVQAGAVRNTQHLWEIYDQDGLQHFIDGGEPSKSSWMRYIRCARHCGEQNLTVVQYRSNIFYRA
 CIDIPRGTELLVWYNDYSYFFGIPLQCIQDENLNPSTVMEAMCRQDALQPFNKSSKLAPTTQQRSVV
 FPQTPCSRNFSLLDKSGPIESGFNQINVKNRVLAASPTSTSQLHSEFSDWHLWKCGQCFTFTQRILLQM
 HVCTQNPDRPYQCGHCSQFSQPSELRNHVVTHSSDRPFKCGYCGRAFAGATTLNHNHIRTHTGKPFKCE
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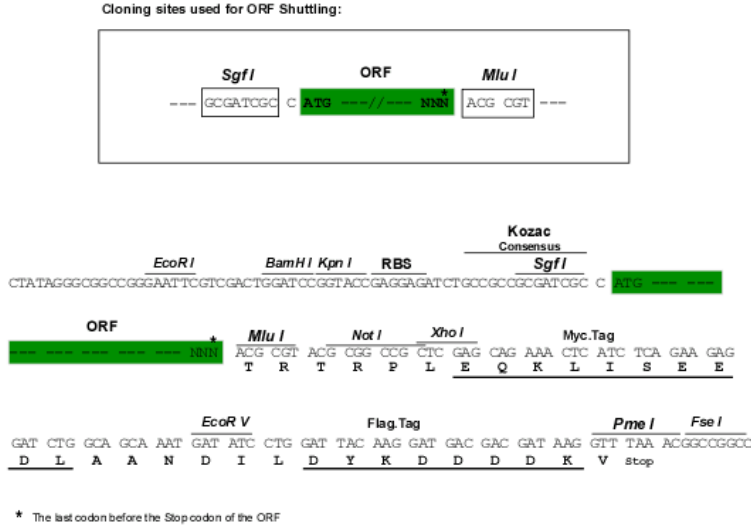
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8032_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136239

ORF Size: 1785 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_001136239.4](#)

RefSeq ORF: 1788 bp

Locus ID: 93166

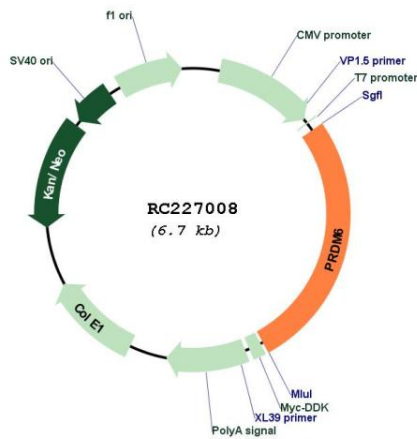
UniProt ID: [Q9NQX0](#)

Cytogenetics: 5q23.2

MW: 64.3 kDa

Gene Summary: The protein encoded by this gene is a transcriptional repressor and a member of the PRDM family. Family members contain a PR domain and multiple zinc-finger domains. The encoded protein is involved in regulation of vascular smooth muscle cells (VSMC) contractile proteins. Mutations in this gene result in patent ductus arteriosus 3 (PDA3). [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC227008