

Product datasheet for **RG227008**

PRDM6 (NM_001136239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM6 (NM_001136239) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRDM6
Synonyms:	KMT8C; PDA3; PRISM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227008 representing NM_001136239
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAAGCCCGGAGACCCCGCGGTTTCGGCCTTCTCAAAGTGGACCCAGCCTACCTGCAGCACTGGC
 AGCAACTTCCCTCACGGAGGCGCAGGCCCGCTCAAGGGCAGCGCGCCGCGGGTCTCCTGAGCGCGCC
 GCAGCCTTTCAGCCGCCCGCCGCCCGCCCGCCCGGAGCGCGCTGAGCCTCCGCCGGACAGCCTGCGC
 CCGCGGCCCGCTCTCTCTCCTCCGCTCGTCCACGCCGCTTCTCTTCCACCTCCGCCTCCTCCGCCT
 CCTCTGCGCTGCTGCGGCCGCTGCCGCCGCGTGGTGGTCTCTCGGCCCTGCCGGTGTGCGAGCTGCC
 GGTGTTGCGCCTTAGCCGCCGCTGCCGTGCCGCCGAGCCGCTGCCCCCAAGAACTGTGCCTCGGC
 GCCACCTCCGGCCCGGGCCCGTCAAGTGGTGGTGGTGGCGCGCGGGGAGGGTGCAGCGCCCGCC
 CGCGCTTCCGCTGCAGCGCAGAGGAGCTGGACTATTACCTGTATGGCCAGCAGCGCATGGAGATCATCCC
 GCTCAACCAGCACACCAGCGACCCAACAACCGTTGCGACATGTGCGCGACAACCGCAACGGCGAGTGC
 CCTATGCATGGGCCACTGCACTCGCTGCCCGGCTTGTGGGACCAAGCAGCGCTGCGGCCCGCCGCCCC
 CGCCGGAGCTGCCGGAGTGGCTGCGGGACCTGCCTCGCGAGGTGTGCCTCTGCACCACTACTGTGCCCGG
 CCTGGCCTACGGCATCTGCGCGGCGCAGAGGATCCAGCAAGGCACCTGGATTGGACCTTTCGAAGCGGTG
 CTTCTGCCCCAGAGAAGGTGCAGGCAGGCGCCGTGAGGAACACGCAGCATCTCTGGGAGATATATGACC
 AGGATGGGACACTACAGCACTTTATTGATGGTGGGAACTAGTAAGTCGAGCTGGATGAGGTATATCCG
 ATGTGCAAGGCACTGCGGAGAACAAGTAACTAACAGTAGTTCAGTACAGGTGCAATATATTCTACCGAGCC
 TGTATAGATATCCCTAGGGGCACCGAGCTTCTGGTGTGGTACAATGACAGCTATACGTCTTTCTTTGGGA
 TCCCTTACAATGCATTGCCAGGATGAAAACCTAAATGTCCTTCAACGGTAATGGAAGCCATGTGCAG
 ACAAGACGCCCTGCAGCCCTTCAACAAAAGCAGCAAACTCGCCCTACCAACCAGCAGCGCTCCGTTGTT
 TCCCCCAGACTCCGTGCAGCAGGAACCTCTCTCTTCTGGATAAGTCTGGGCCATTGAATCAGGATTTA
 ATCAAATCAACGTGAAAAACCAGCGAGTCTGGCAAGCCCAACTCCACAAGCCAGCTCCACTCGGAGTT
 CAGTGACTGGCATCTTTGAAAATGTGGGCACTGCTTAAAGACTTTCACCCAGCGGATCCTCTTACAGATG
 CACGTGTGCAGCAGAACCCCGACAGACCCTACCAATGCGGCCACTGCTCCAGTCTTTTCCAGCCTT
 CAGAACTGAGGAACCACGTGGTCACTACTCTAGTGACCGGCTTCAAGTGGGCTACTGTGGTCTGTC
 CTTTCCGGGGCCACCACCTCAACAACCACATCCGAACCCACTGGAGAAAAGCCCTTCAAGTGGCAG
 AGGTGTGAGAGGAGCTTACGCAGGCCACCCAGCTGAGCCGACACCAGCGGATGCCCAATGAGTGAAGC
 CAATAACTGAGAGCCAGAATCAATCGAAGTGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227008 representing NM_001136239
 Red=Cloning site Green=Tags(s)

MLKPGDPGGS AFLKVDPAYLQHWQQLFPHGGAGPLKGSAGALLSAPQLQPPPPPPPERAEPDPSLR
 PRPASLSSASSTPASSSTSASSASSCAAAAAAALAGLSALPVSQLPVFAPLAAAAVAEPLPPKELCLG
 ATSGPGPVKCGGGGGGEGRGAPRFRCSAEELDYLYGQQRMEI IPLNQHTSDPNNRCDMCDNRNGEC
 PMHGPHSLRRLVGTSSAAAAAPPPELPEWLRDLPREVCLCTSTVPGLAYGICAAQRIQQGTWIGPFQGV
 LLPPEKVQAGAVRNTQHLWEIYDQDGLQHFIDGGEPSKSSWMRYIRCARHCGEQNLTVVQYRSNIFYRA
 CIDIPRGTELLVWYNDYSYFFGIPLQCIAQDENLNVSTVMEAMCRQDALQPFNKSSKLAPTTQQRSVV
 FPQTPCSRNFSLLDKSGPIESGFNQINVKNQRVLASPTSTSQLHSEFSDWHLWKCGQCFKFTQRIILLQM
 HVCTQNPDRPYQCGHCSQSFQSPSELRNHVTHSSDRPFKCGYCGRAFAGATTLNNHIRTHTGKPFKCE
 RCERSFTQATQLSRHQMPNECKPITESPESIEVD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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.

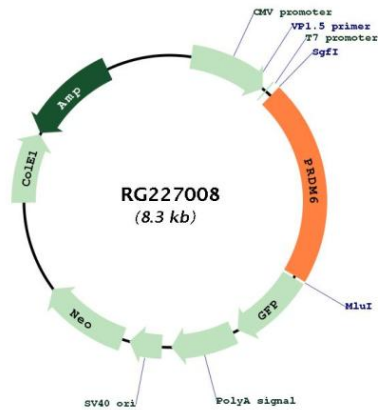
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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 Size: 3027 bp
 RefSeq ORF: 1788 bp
 Locus ID: 93166
 UniProt ID: [Q9NQX0](#)
 Cytogenetics: 5q23.2

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 RG227008