

## Product datasheet for **MC219535**

### Prdm5 (NM\_027547) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm5 (NM_027547) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prdm5
Synonyms:	4432417F03Rik; 6530401I24Rik; AI197291; E130112L17Rik; PFM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219535 representing NM\_027547  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGGCATGTACGTACCAGACAGGTTCCGCCCTGAAGTCGTCGCCGGTCCAGGACGGGATGGGGCTCT  
 ACACGGCCCGCCCGTGC GCAAGGGTGA AAAATTTGGACCCTTCGCTGGGAGAAGCGAATGCCTGAAGA  
 CTTGGATGAAAATATGGACTACAGACTGATGTGGAGGTACGTGGGAGCAAGGGAGAAGTTCTGTATATT  
 TTGGATGCTACCAACCAAGACTCCTCAACTGGCTTCGCTTTGTTACGAGGCACCATCTCAGGAGCGGA  
 AGAACCTGGTGCATTCAAGAAGGAGAAAATATTTTCTACTTGGCAGTTGATGATATAGAAACAGATAC  
 AGAGCTTTTGATTGGCTACCTGGACAGTGTGGAGGCAGAGGAGGAGGAGCAACAAGCTCTGACCATG  
 ACCAAAGAAGGCAAAGTTGACACTCTAAGGGACAGTTGGCAGCTGGAAGTAAAGGTCACCTTGGCTGTG  
 AAGAGGACTTTGCCTGTCCAGTGTGAATCGAGCTTTCCAGTGAGGAAGTCTTACTGAGCACCTTCA  
 GAGCTTGACCAGAAGCCACAGGGGAGAAAGAGTTCAAATGCGAGAACTGCGGGAAGAAATTCCTGTG  
 AGGCAGGCCTTGACAGACATTTTGAGCAGCACCGGAAGGCTTGCCGAGGGGAGGCCAGGTTTGTGTGCA  
 AAGCCGACAGCTGCGGGAAGAGGCTGAAAAGCAAGGATGCCCTGCGAAGGCACCAGGAAAATGTCCACAC  
 CGGTGATCCTAAGAGAAAATCATATGCTCGGTGTGCAATAGAAAATGTACCTCAGTGTCAAAGCTGCAG  
 GAGCACAGGAAGATTCATGAGATATTTGATTGTCAAGAAATGATGAAAAAGTTTATTTCTGCTAATCAGC  
 TGAAGCGTCACATGATTACCCACTCAGAAAAGCGGCTTATAACTGTGAGATCTGTAACAAGTCCTTCAA  
 GAGGCTCGATCAAGTGGGCGCCCAAAAGTGTCCACAGTGAGGACAAACCCTACCAGTGAAGCTCTGT  
 GGCAAGGCTTTGCTCACAGAAACGTTTACAAGAACCACAAGAAGACCCACTCCGAGGAGAGACCTTTCC  
 AGTGTGATGCATGTAAGCCTTGTCCGACGCCCTTTTCTCTGCAGAGACACCTGTTAATCCACAACAG  
 TGAGAGGACTTTAAGTGTCAACACTGTGATGCCACATTTAAAAGGAAGGATACATTAACGTTTCATGTC  
 CAGGTGGTCCATGAAAGACACAAGAAGTACCGATGTGAGCTGTGCAATAAGGCCCTTTGTACACCTTCAG  
 TGCTTAGGAGTCAATAAGAAGACACACAGGAGAAAAGGAGAAAGTCTGCCCATATTGTGGCCAGAAATT  
 TGCCAGCAGTGGGACCCTGAGAGTTCACATCCGGAGCCACACAGGTGAGCGCCCTATCAATGCCCGTAC  
 TGTGAAAAGGTTTCAGTAAAAATGACGGACTGAAGATGCACATTCGTAATCACACCAGGGAGAAGCCCT  
 ACCAGTGTCTCAGAGTGCAGCAAGGCCTCAGCCAGAAGCGGGCCTCGATGAACACAAGAGGACACACAC  
 AGGAGAAAAGCCTTTTCAGTGTGACGTATGTGACTTGGCTTTTAGCCTGAAGAAAATGCTTATTCGACAC  
 AAGATGACACACAATCCTAACCGTCCGATGGCAGAGTGCCATTTCTGCCATAAGAAGTTTACAAGAAATG  
 ACTACCTCAAAGTGACATGGACAACATCCATGGGGTAGCTGACAGCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_027547
- Insert Size:** 1800 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_027547.2](#), [NP\\_081823.2](#)

**RefSeq Size:** 2182 bp

**RefSeq ORF:** 1800 bp

**Locus ID:** 70779

**UniProt ID:** [Q9CXE0](#)

**Cytogenetics:** 6 C1

**Gene Summary:** Sequence-specific DNA-binding transcription factor. Represses transcription at least in part by recruitment of the histone methyltransferase EHMT2/G9A and histone deacetylases such as HDAC1. Regulates hematopoiesis-associated protein-coding and microRNA (miRNA) genes (By similarity). May regulate the expression of proteins involved in extracellular matrix development and maintenance, connective tissue components and molecules regulating cell migration and adhesion. May cause G2/M arrest and apoptosis in cancer cells (By similarity). [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).