

Product datasheet for **RN204955**

Prdm9 (NM_001108903) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm9 (NM_001108903) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prdm9
Synonyms:	Prdm7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204955 representing NM_001108903
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTC**CCGC**ACCATGAACACCAACAAGCCGGGAAGAGAATAGTACTGAAGGAGATGCAGGGAACTCGAGT
 GGAAACCCAAGGTCAAAGATGAGTTCAAAGACATTTCCATATACTTCTCCAAAGAAGAATGGGCAGAGAT
 GGGAGAGTGGGAGAAAATTCGCTATAGAAATGTGAAAAGGAACTATAAAATGCTGATTTCTATAGGTCTC
 AGAGCCCTAGACCAGCTTTTCATGTGTTACCAAAGGCAGGCAATCAAGCCCCAGATAAATGACAATGAGG
 ATTCTGATGAGGAATGGACACCAAAGCAGCAAGTCAGTTCTCCTTGGGTGCCTTTCCGGGTGAAGCACAG
 TAAACAACAGAAGGAAACACCCAGAATGCCATTAAGTGATAAATCTAGTGTGAAGGAAGTATTTGGAATA
 GAAAATTTGCTGAACACAAGTGGCTCAGAGCATGCCAGAAACCAGTGTGCTCCCTGAAGAAGGGAATA
 CCTCCGGACAGCACTTTGGAAAAAACTGAAACTCAGGAGAAAGAATGTTGAAGTGAATAGGTACAGGCT
 GCGAGAGAGAAAGACCTTGCATATGAAGAGGTCAGCGAGCCCCAGGATGATGACTACCTCTATTGTGAG
 AAGTGCCAGAATTTCTTCATCGACAGTTGTCCCAACCATGGGCTCCTGTATTTGTAAAAGACAGTGTGG
 TGGACAGGGGGCATCCCAACCACTCAGTCTCAGTCTGCCCTGGGCTGAGAATTTGGTCCATCAGGCAT
 CCCTGAAGCTGGACTTGGAGTATGGAATGAAGCATCTGATCTACCAAGTGGGTCTGCACTTTGGTCCCTAT
 AAGGGCCAGATTACAGAGGATGAAGAGGCAGCCAAACAGTGGATACTCCTGGCTGATCACCAAGGGAAGAA
 ACTGCTATGAGTATGTGGATGGGCGAGTGTAGTCCCAAGCCAACCTGGATGAGGTATGTGAACTGTGCCCG
 GGATGACGAAGAGCAGAACCTGGTGGCCTTTCAATATCACAGGAAAATCTTCTATCGGACCTGCCGGGTC
 ATCAGGCCAGGTGCGGAGCTTCTGGTCTGGTATGGGGATGAGTATGGCCAAGAGCTGGGCATCAAGTGGG
 GAAGCAAGATGAAGAAAGGATTACAGCAGGAAGAGAACTAAGGACAGAGATTTCATCCTTTGTTTTGTG
 CTCTTTGGCCTTCTCAAGTCAGAAATTCCTCACTCAACATGTAGAATGGAATCATCGCACAGAAATCTTC
 CCAGGAGCATCTGCAAGGATAAATCCTAAGCCAGGAGATCCCTGTCCAGATCAGTTCAGGAACATTTTG
 ATTCACAGAACAAGAATGACAAAGCCAGCAATGAAGTCAAAGAAAAATCCAAACCCAGGCATAAATGGAC
 AAGACAGAGGATTTCAACAGCCTTTTCCAGTACTCTCAAAGAACAATGAGATCTGAGGAAAGTAAGAGA
 ACTGTAGAAGAAGAGCTTAGAACAGGCCAGACAACAATATAGAGGACACAGCCAAATCATTATTGCAT
 CAGAAACCTCAAGAATTGAAAGGCAATGTGGGCAATGTTTCAGTGATAAGTCAAATGTCAGTGAGCACCA
 GAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTTACAGAAGTCAGAC
 CTCATCAAGCACCAGAGGACACACAGAGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTA
 CACAGAAGTCAGACCTCATCAAGCACCAGAGGACACACACAGAGGAGAAGCCCTACATTTGCAGGGAGTG
 TGGGCGGGGCTTTACACAGAAGTCAGACCTCATCAAGCACCAGAGGACACACACAGGGGAGAAGCCCTAC
 ATTTGCAGGGAGTGTGGGCGGGGCTTTACACAGAAGTCAGACCTCATCAAGCACCAGAGGACACACACAG
 AGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTACACAGAAGTCAAGCCTCATCCGGCACCA
 GAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCTGGGCTTTACACAGAAGTCAAAC
 CTCATCCGGCACCTGAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCTGGGCTTTA
 CACGGAAGTCAAACCTCATCCAGCACCAGAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTG
 TGGGACGGGCTTACATGGAAGTCAAGCCTCATCCAGCACCAGAGGACACACACAGGGGAGAAGCCCTAC
 ATTTGCAGGGAGTGTGGGCGGGGCTTTACATGGAAGTCAAGCCTCATCCAGCACCAGAGGACACACACAG
 TGGAGAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001108903
Insert Size: 2391 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:	<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:	<u>NM_001108903.2</u> , <u>NP_001102373.2</u>
RefSeq Size:	2688 bp
RefSeq ORF:	2391 bp
Locus ID:	365155
UniProt ID:	<u>P0C6Y7</u>
Cytogenetics:	1q12
Gene Summary:	Histone methyltransferase that specifically trimethylates 'Lys-4' of histone H3 during meiotic prophase and is essential for proper meiotic progression. Does not have the ability to mono- and dimethylate 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes during early meiotic prophase (By similarity).[UniProtKB/Swiss-Prot Function]