

Product datasheet for **RR204955**

Prdm9 (NM_001108903) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide
Sequence:

>RR204955 representing NM_001108903
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCGCACCATGAACACCAACAAGCCGGAAGAGAATAGTACTGAAGGAGATGCAGGGAACTCGAGT
 GGAAACCCAAGGTCAAAGATGAGTTCAAAGACATTTCCATATACTTCTCCAAAGAAGAATGGGCAGAGAT
 GGGAGAGTGGGAGAAAATTCGCTATAGAAATGTGAAAAGGAACTATAAAATGCTGATTTCTATAGGTCTC
 AGAGCCCCTAGACCAGCTTTTCATGTGTTACCAAAGGCAGGCAATCAAGCCCCAGATAAATGACAATGAGG
 ATTCTGATGAGGAATGGACACCAAAGCAGCAAGTCAGTTCTCCTTGGGTGCCTTTCCGGGTGAAGCACAG
 TAAACAACAGAAGGAAACACCCAGAATGCCATTAAGTGATAAATCTAGTGTGAAGGAAGTATTTGGAATA
 GAAAATTTGCTGAACACAAGTGGCTCAGAGCATGCCAGAAACCAGTGTGCTCCCCTGAAGAAGGGAATA
 CCTCCGGACAGCACTTTGGAAAAAACTGAAACTCAGGAGAAAGAATGTTGAAGTGAATAGGTACAGGCT
 GCGAGAGAGAAAGACCTTGCATATGAAGAGGTCAGCGAGCCCCAGGATGATGACTACCTCTATTGTGAG
 AAGTGCCAGAATTTCTTCATCGACAGTTGTCCCAACCATGGGCTCCTGTATTTGTAAAAGACAGTGTGG
 TGGACAGGGGGCATCCCAACCACTCAGTCTCAGTCTGCCCTGGGCTGAGAATTTGGTCCATCAGGCAT
 CCCTGAAGCTGGACTTGGAGTATGGAATGAAGCATCTGATCTACCAAGTGGGTCTGCACTTTGGTCCCTAT
 AAGGGCCAGATTACAGAGGATGAAGAGGCAGCCAAAGTGGATACTCCTGGCTGATCACCAAGGGAAGAA
 ACTGCTATGAGTATGTGGATGGGCGAGTGAAGTCCCAAGCCAAGTGGATGAGGTATGTGAACTGTGCCCC
 GGATGACGAAGAGCAGAACCTGGTGGCCTTTCAATATCACAGGAAAATCTTCTATCGGACCTGCCGGGT
 ATCAGGCCAGGTGCGGAGCTTCTGGTCTGGTATGGGGATGAGTATGGCCAAGAGCTGGGCATCAAGTGGG
 GAAGCAAGATGAAGAAAGGATTACAGCAGGAAGAGAATAAGGACAGAGATTATCCTTTGTTTTTTGTG
 CTCTTTGGCCTTCTCAAGTCAGAAAATTCCTCACTCAACATGTAGAATGGAATCATCGCACAGAAAATCTTC
 CCAGGAGCATCTGCAAGGATAAATCCTAAGCCAGGAGATCCCTGTCCAGATCAGTTCAGGAACATTTTG
 ATTCACAGAACAAGAATGACAAAGCCAGCAATGAAGTCAAAGAAAATCCAAACCCAGGCATAAATGGAC
 AAGACAGAGGATTTCAACAGCCTTTTCCAGTACTCTCAAAGAACAATGAGATCTGAGGAAAAGTAAGAGA
 ACTGTAGAAGAAGAGCTTAGAACAGGCCAGACAACAATATAGAGGACACAGCCAAATCATTTATTGCAT
 CAGAAACCTCAAGAATTGAAAGGCAATGTGGGCAATGTTTCAGTGATAAGTCAAATGTCAGTGAGCACCA
 GAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTTACAGAAGTCAGAC
 CTCATCAAGCACCAGAGGACACACAGAGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTA
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 TGGGCGGGGCTTTACACAGAAGTCAGACCTCATCAAGCACCAGAGGACACACACAGGGGAGAAGCCCTAC
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 AGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCGGGGCTTTACACAGAAGTCAAGCCTCATCCGGCACCA
 GAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCTGGGCTTTACACAGAAGTCAAAC
 CTCATCCGGCACCTGAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTGTGGGCTGGGCTTTA
 CACGGAAGTCAAACCTCATCCAGCACCAGAGGACACACACAGGGGAGAAGCCCTACATTTGCAGGGAGTG
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 ATTTGCAGGGAGTGTGGGCGGGGCTTTACATGGAAGTCAAGCCTCATCCAGCACCAGAGGACACACACAG
 TGGAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204955 representing NM_001108903
 Red=Cloning site Green=Tags(s)

MSRTMNTNKPEENSTEGDAGKLEWKPKVKDEFKDISIYFSKEEWAEMGEWEKIRYRNVKRNKMLISIGL
 RAPRPAFCYQRQAIAKPQINDNEDSDEEWTPKQQVSSPWVFRVKHKKQKQKTPRMPKSDKSSVKEVFGI
 ENLLNTSGSEHAQKPVCSPEEGNTSGQHFQKLLKRRKNVEVNRVRLRERKDLAYEEVSEPQDDDYLYCE
 KCQNFIDSCPNHGPPVFKDSVVDGRGHPNHSVLSLPPGLRIGPSGIPEAGLGVWNEASDLPVGLHFGPY
 KGQITEDEEAANSYSLITKGRNCYEYVDGQDESQANWMRYVNCARDDEEQNLVAFQYHRKIFYRTRCV
 IRPGRELLVWYGDEYQELGIKWGSKMKKGF TAGRELRTIHPFCFLCSLAFSSQKFLTQHVEWNHRTEIF
 PGASARINPKPGDPCPDQLQEHFDSQNKNDKASNEVKRKSAPRHKWTRQRISTAFSSTLKEQMRSEESKR
 TVEEELRTGQTTNIEDTAKSFIASETSRIERQCGQCFSDKSNVSEHQRTHTGEKPYICRECGRGFSQKSD
 LIKHQRTHTTEKPYICRECGRGFTQKSDLIKHQRTHTEKPYICRECGRGFTQKSDLIKHQRTHTEKPY
 ICRECGRGFTQKSDLIKHQRTHTEKPYICRECGRGFTQKSSLIRHQRTHTEKPYICRECGLGFQKSN
 LIRHLRTHTEKPYICRECGLGFTRKSNLIQHQRTHTEKPYICRECGQLTWKSSLIQHQRTHTEKPY
 ICRECGRGFTWKSSLIQHQRTHTEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001108903

ORF Size: 2388 bp

OTI Disclaimer: 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_001108903.2](#), [NP_001102373.2](#)

RefSeq Size: 2688 bp

RefSeq ORF: 2391 bp

Locus ID: 365155

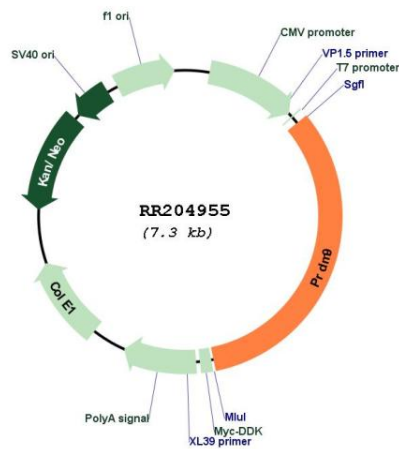
UniProt ID: [P0C6Y7](#)

Cytogenetics: 1q12

MW: 92.6 kDa

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]

Product images:



Circular map for RR204955