

Product datasheet for **MC220521**

Prdm8 (NM_029947) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prdm8 (NM_029947) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prdm8
Synonyms:	4930565F05Rik; PFM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220521 representing NM_029947
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGATTCAGGCATCCAGAGAGGCATCTGGATGGAGATGCCAAGGCTGTCCAACAGTGTCTGACAG
 ACATTTTTACCAGTGTATATACAACCTGCGACATCCCAGAGAACGCCATATTCGGTCCCTGTGTACTGAG
 CCATACTTCCCTGTATGACAGCATAGCCTTCGTAGCCCTCAAGTCCACGGACAAGAGAACAGTACCTTAC
 ATCTTCCGGGTAGACACTTCGGCGGCAAAATGGTTCCTCAGAAGGTCTCATGTGGCTGCGGCTGGTCCAAT
 CAGCCCGAGATAAGGAAGAACAGAATCTCGAAGCTTATAAAAAATGGACAGCTGTTCTACCGCTCTCT
 CCGCAGGATTGCCAAAGATGAAGAGTTACTAGTTTGGTACGGGAAAGAACTGACTGAATTGCTCTTGCTC
 TGCCCGTCTAGAGCTCACAAAATGAACGGTCTCTCCTTACACATGCCTGGAATGCAGCCAACGTTTCC
 AGTTTGAGTCCCTATGTGGCACATCTCGGATTCGGTGCCTCAAGAGACTTCACAGCACTGATGCGAA
 TCCCAAGACGAGCAAGGGGGCGGCTTGGGCACTAAGGACCACGGCGGCGGGCGGTGGTAAAGAGCAA
 CAGCAGCAGCAACAGCAGCAGCAACAGGAGGCGCGTGTATCCCGGGCCCAAGTTCTGCAAAGCCGGCC
 CCATACACCACTACCCCGCTCATCCCCGAGGGCAGCAACCCCGCGGGCTCCGCGGGTGCAGGCGAGCGC
 CAAGCCGTCCACGGACTCCACAACCTGGCTCGGAACTGGAAAACCTCCCGGGGAAGCAGCAGTTGCGTA
 GCGGCCCGGGCGTGGCAGTGGCGGCAGCGGCCACCAGGAGGCGGAGCTGAGTCCCGACGGCGTCGCCA
 CCGGCGGTGCAAAGGCAAGAGGCGGTTCCAGAGGAGGCGGGCGGAGGGCGGCGGGGCTGGC
 GGGCGCCGTGCGCGCTTCTCCGAGAGGCGCTGGCGACTCCAAGGAGGAGTTGGTGTGCACGCCCGAG
 CAGTACCGCGCCCGGCGAGCTACTTCGGCTGGAGGAGAAGCGGGCTCTTCGCGCCCGCCAGCCCGG
 AGACTGGCGAGGGAAGCGCAGCGCTTCTGGAGGTGAAGAAGCGGGCGCGGTTGGCTTGCAGGA
 GGAGGCGGCGGACAGACGCGCAGGGGACAGGCGCAGGACCCGACGCGGGAGGCGGTGTCCCGGC
 GCGCGCAGCAACGGCTCGTCCACCCCGCGGCGGGTTCGCTGGGGCCCCGAGAAGTTGCTGGCTCCGC
 GTCCCGAGGCTCTGTCCCGACGGCTGGAGGCGGGAGCCCGCGCGCGCAGCGCTTACCTCGGT
 GTCGAGCTGGGCGGGTGGCGCGGGGACCGCGGGACTGCGGGGGCTCGGGGGCGGCCAAACG
 GCCGCATCGGACGAGCGGAAGAGCGCTTCTCGCAGCCCGCGCTCCTTCTCGAGCTGTCCCGTTGG
 TCCTCGGCCAGAAGCTGGGCGCTCTCGAGCGTGTACCCGGGAGACGGCGTGGTCCCACCAGACTCTA
 CCCGGCCCGCGATCCGCTGGCTGTGAAGTGCAGGGGCGAGCGGACTGAACGGAGCCTGCGGGCCC
 CTGGCGAGCGGCGTGGCGGTGGCTTGCCCAAGCAGAGCCCTTCTCTACGCCACCGCTTCTGGCCCA
 AGAGCTCGGCTGCGGCGGCGAGCGCGGGCGGCGCGCCCGGGCCCTGCAGCTGCAACTGCCCTCCGC
 GCTCACCTGCTGCCGCCCTCCTCACTTCGCTGTGTCTGCCCGCGCAGAACTGGTGCGCCAAATGCAAC
 GCCTCCTTCCGCATGACCTCCGACTGGTGTACCATATGCGGTCTCACCACAAAAGGAGTATGCCATGG
 AGCCCTGGTGAAGCGGCGGGGAGGAGAACTCAAGTGCCCATTTGCAACGAGTCTTCAGGGAGCG
 TCACCACCTGTCCCGGCACATGACCTCGCATAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_029947
- Insert Size:** 2067 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_029947.2](#), [NP_084223.2](#)

RefSeq Size: 3119 bp

RefSeq ORF: 2067 bp

Locus ID: 77630

UniProt ID: [Q8BZ97](#)

Cytogenetics: 5 E3

Gene Summary: Probable histone methyltransferase, preferentially acting on 'Lys-9' of histone H3 (PubMed:19646955). Histone methyltransferase activity has not been confirmed in other species. Involved in the control of steroidogenesis through transcriptional repression of steroidogenesis marker genes such as CYP17A1 and LHCGR (PubMed:19646955). Forms with BHLHE22 a transcriptional repressor complex controlling genes involved in neural development and neuronal differentiation (PubMed:22284184). In the retina, it is required for rod bipolar and type 2 OFF-cone bipolar cell survival (PubMed:26023183).[UniProtKB/Swiss-Prot Function]