

Product datasheet for **MR222292**

Prdm8 (NM_029947) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide
Sequence:

>MR222292 representing NM_029947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGATTCAGGCATCCAGAGAGGCATCTGGATGGAGATGCCAAGGCTGTCCAACAGTGTCTGACAG
 ACATTTTTACCAGTGTATATACAACCTGCGACATCCCAGAGAACGCCATATTCGGTCCCTGTGTACTGAG
 CCATACTTCCCTGTATGACAGCATAGCCTTCGTAGCCCTCAAGTCCACGGACAAGAGAACAGTACCTTAC
 ATCTTCCGGGTAGACACTTCGGCGGCAAAATGGTTCCTCAGAAGGTCTCATGTGGCTGCGGCTGGTCCAAT
 CAGCCCGAGATAAGGAAGAACAGAATCTCGAAGCTTATATAAAAAATGGACAGCTGTTCTACCGCTCTCT
 CCGCAGGATTGCCAAAGATGAAGAGTTACTAGTTTGGTACGGAAAGAACTGACTGAATTGCTCTTGCTC
 TGCCCGTCTAGAGCTCACAAAATGAACGGTCTGCTCCTTACACATGCCTGGAATGCAGCCAACGTTTCC
 AGTTTGAGTTCCTATGTGGCACATCTCGGATTCGGTGCCTCAAGAGACTTCACAGCACTGATGCGAA
 TCCCCAAGACGAGCAAGGGGGCGGCTTGGGCACTAAGGACCACGGCGGGCGGGCGGTGGTAAAGAGCAA
 CAGCAGCAGCAACAGCAGCAGCAACAGGAGGCGCGTGTATCCCGGGCCCAAGTTCTGCAAAGCCGGCC
 CCATACACCACTACCCCGCTCATCCCCGAGGGCAGCAACCCGCGGGCTCCGCGGGTGCAGGCGAGCGC
 CAAGCCGTCCACGGACTTCCACAACCTGGCTCGGAACTGGAAAACCTCCCGGGGAAGCAGCAGTTGCGTA
 GCGGCCCGGGCGTGGCAGTGGCGGCAGCGGCCACCAGGAGGCGGAGCTGAGTCCCGACGGCGTCGCCA
 CCGGCGGTGCAAAGGCAAGAGGCGGTTCCAGAGGAGGCGGGCGGAGGGCGGGCGGGGCTGGC
 GGGCGCCGTGCGCGCTTCTCCGAGAGGCGCTGGCGACTCCAAGGAGGAGTTGGTGTGCACGCCCGAG
 CAGTACCGCGCCCGCGCAGCTACTTCGGCTGGAGGAGAAGCGGGCTCTTCGCGCCCGCAGCCCGG
 AGACTGGCGAGGGAAGCGCAGCGCTTCTGGAGGTGAAGAAGCGGGCGCGGTTGGCTTGCAGGA
 GGAGGCGGGCGGACAGACGGCGCAGGGGACAGGCGCGAGGACCCGACGCGGGAGGCGGTGTCCCGGC
 GCGGCAGCAACGGCTCGTCCACCCCGCGGGGTCGCTGGGGCCCCGAGAAGTTGCTGGCTCCGC
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 GTCGCAGCTGGCGGGGTGGCGCGGGGACCGCGGGACTGCGGGGGCTCGGGGGCGGCCAAACG
 GCCGCATCGACGAGCGGAAGAGCGCTTCTCGCAGCCCGCGCTCTTCTCGCAGCTGTCCCGTTGG
 TCCTCGGCCAGAAGCTGGGCGCTCTCGAGCCGTGTACCCGGGAGACGGCGTGGTCCCACCAGACTCTA
 CCCGGCCCGCGATCCGCTGGCTGTGAAGCTGCAGGGGCGAGCGGACCTGAACGGAGCCTGCGGGCCC
 CTGGCGAGCGGGTGGCGGTGGCTTGCCAAGCAGAGCCCTTCTCTACGCCACCGCTTCTGGCCCA
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 GCTCACCTGCTGCCGCCCTCTCACTTCGCTGTGTCTGCCCGCGCAGAAGTGGTGCGCCAAATGCAAC
 GCCTCCTTCCGCATGACCTCCGACTGGTGTACCATATGCGGTCTCACCACAAAAGGAGTATGCCATGG
 AGCCCCTGGTGAAGCGGCGGGGAGGAGAACTCAAGTGCCCCATTTGCAACGAGTCTTCAGGGAGCG
 TCACCACCTGTCCCGGCATGACCTCGCATAAT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222292 representing NM_029947
 Red=Cloning site Green=Tags(s)

MEDSGIQRGIWDGDAKAVQQCLTDIFTSVYTTCDIPENAIIFGPCVLSHTSLYDSIAFVALKSTDKRTVPY
 IFRVDTSAANGSSEGLMWLRLVQSARDKEEQNL EAYIKNGQLFYRSLRRIAKDEELLVWYKELTELLLL
 CPSRAHKMNGSSPYTCL ECSRQRFQFEPYVAHLRFRCPKRLHSTDANPQDEQGGGLTKDHGGGGGKKEQ
 QQQQQQQQEAPLIPGPKFCKAGPIHHYPASSPEASNPPGSAGAGSAKPSTDFHNLARELENSRGSSSCV
 AAPGVSGSGSGHQEAELSPDG VATGGCKGRRFP EEEAAAEGGGAGLAGGRARFSERPLATSKEELVCTPQ
 QYRAAGSYFGLEENGR LFAPSPETGEAKRS AFVEVKKAGRAVGLQEEAAATDGAGGTAEDPDAGGVAG
 GGSNGSSTPAAGSPGAPEKLLAPRPGGSLPGRLEGGSPARGSAFTSVSQLGGGGGAGTAGTAGGGGGQT
 AASDERKSAFSQPARFSQLSPLVLGQKLGALEPCHPGDVGVPTRLYPAAADPLAVKLQGAADLNGACGP
 LASGGGGGLPKQSPFLYATAFWPKSSAAAAAAAAAAGPLQLQLPSALTLLPPSF TSLCLPAQNWCAKCN
 ASFRMTSDLVYHMRSHHKKEYAMEPLVKRRREEKLCPCINESFRERHHL SRHMTSHN

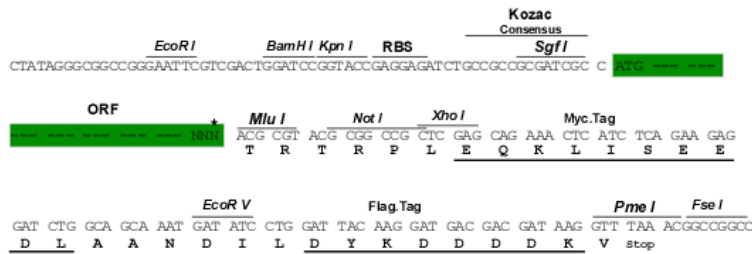
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9041_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_029947

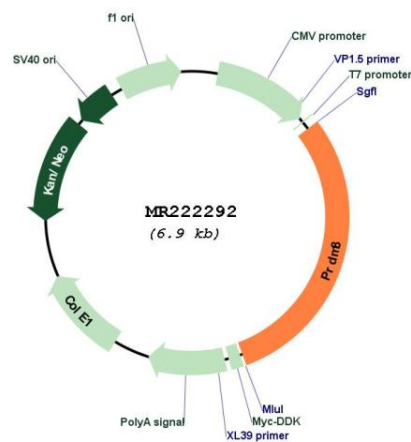
ORF Size: 2064 bp

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:	<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_029947.2</u> , <u>NP_084223.2</u>
RefSeq Size:	3119 bp
RefSeq ORF:	2067 bp
Locus ID:	77630
UniProt ID:	<u>Q8BZ97</u>
Cytogenetics:	5 E3
MW:	72.2 kDa
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]

Product images:



Circular map for MR222292