

Product datasheet for **RC222608**

PRDM8 (NM_001099403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM8 (NM_001099403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRDM8
Synonyms:	EPM10; KMT8D; PFM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC222608 representing NM_001099403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGATACTGGCATCCAGCGAGGCATCTGGGATGGAGATGCCAAGGCTGTCCAACAATGTCTGACAG
 ATATTTTTACCAGCGTTTACACCACCTGCGACATCCCTGAGAATGCTATATTTGGTCCCTGTGCTCTGAG
 CCATACTTCCCTATATGACAGCATAGCTTTCATAGCTCTCAAGTCTACTGACAAGAGAACAGTACCGTAT
 ATCTTTTCGGGTAGACACCTCAGCAGCAAATGGTTCCTCAGAAGGTCTCATGTGGCTGCGGTTGGTCCAAT
 CGGCCAGAGATAAGGAAGAGCAGAACCTTGAAGCCTACATAAAAAACGGACAGCTGTTCTACCGCTCTCT
 CCGCAGGATTGCCAAAGACGAGGAGTTACTAGTTTGGTACGGAAAGAACTGACTGAGTTACTCTTGCTC
 TGCCCTCTAGATCCCACAACAAAATGAATGGTCTGCCCTTACACATGCCTGGAATGCAGCCAACGTT
 TCCAGTTTGAGTCCCCTATGTGGCGCATCTGCGTTTCCGCTGCCCAAGAGACTTACACGCGCTGATAT
 AAGTCCCCAAGACGAACAAGGCGCGGCGTGGGCACCAAGGACCACGGGGCGGCGGCGGCGGTGGCAAA
 GACCAGCAGCAGCAGCAGCAGGAGGCACCTTAGGCCCGGGTCCCAAGTTTTGCAAAGCCGGCCCTCC
 ACCACTACCCATCCCCTCCCAGAAAGCAGCAACCCATCCGCTGCCGCCGGCGGACGACGCGCAAGCC
 ATCCACAGACTTCCACAACCTGGCCAGGGAGCTGGAAAATCCCAGGGAGGCAGCAGCTGCTCCCGAGCC
 CAGAGCCTCAGCAGCGGTAGCGGCAGCGGCGGCGGCGGCCACCAGGAGGCGGAGCTGAGTCCCAGCG
 GCATCGCCACGGGCGGCGGCAAGGAAAGAGGAAATCCCAGGAGGCGGCGGAGGCGGCGGCGGTGGCGC
 TGGTCTGGTAGGGGGCCGGGCGCTTCGTAGAGCGGCCCTCCCGCCTCCAAGGAGGATCTGGTGTGC
 ACACCGCAGCAGTACCGACCTCGGGCAGCTACTTCGGCTGGAAGAGAACGGCCGCTCTTCGCGCCGCG
 CAAGTCCCAGAGCGGGCGAGGCGAAGCGCAGCGCCTTCGTGGAGGTGAAGAAGGCTGCCCGCGCGCCAG
 CCTGCAGGAGGAGGGGACAGCCGACGGCGGGAGTCCGCTCCGAGGACCAGGACGCTGGCGGCGGCGGC
 GGCTCCTCCACGCCCGGCGCGCTCACCGGTGGGCGCCGAGAAGCTGCTGGCCCGCGGCTGGGGGCC
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 GGCGCCGCTCGGACGAGCGCAAAGCGCCTTCTCGCAGCCAGCAGCTCTTCTCGCAGCTGTCCCGC
 TGGTGTGGGCCAGAAGCTGGGCGGCTCGAGCCATGCCACCCCGGACGGCGTGGGCCCCACCAGACT
 CTATCCCGCCGCGGACCTCTAGCGGTGAAGCTCCAGGGGCGCGGACCTGAACGGAGTTGCGGG
 TCCCTGCCGAGCGGCGGCGGCGCTGCCTAAGCAGAGCCCTTCTGTACGCCACCGCCTTCTGGCCCA
 AGAGCTCCGCTGCCGCTGCAGCCGCGGCTGCGGCGGCGGCGGCGGCGCCCTTGCAGCTGCAGCTGCCCTC
 GCGCTCACGCTGCTGCCGCCCTCTTACCTCGCTGTGTCTGCCCGCGCAGAAGTGGTGCGCCAAGTGC
 AATGCCTCCTTCCGATGACCTCCGACCTGGTGTACCATATGAGGTGCGACCACAAAAGGAGTATGCGA
 TGGAGCCCTTGGTGAAGCGGCGGCGAGAGGAGAAAATCAAGTGCCCATCTGCAATGAGTCTTCAGGGA
 GCGCCACCACCTCTCCAGGCACATGACCTCGCATAAT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222608 representing NM_001099403
Red=Cloning site Green=Tags(s)

MEDTGIQRGIWDGDAKAVQQCLTDIFTSVYTTCDIPENAIIFGPCVLSHTSLYDSIAFIALKSTDKRTVPYI
 IFRVDTSAANGSSEGLMWLRLVQSARDKEEQNL EAYIKNGQLFYRSLRRIAKDEELLVWYGKELTELLLL
 CPSRSHNKMNGSSPYTCLCESQRFQFEFPYVAHLRFRCPKRLHSADISPQDEQGGVGT KDHGGGGGGGK
 DQQQQQEQEAPLGP GPKFCKAGPLHHYSPSPESPSSNP SAAAGSSAKPSTDFHNLARELENSRGGSSCS
 PAQSLSSGSGSGGGGHQEAELSPDGIATGGGKGRKFP EEAEGGGAGLVGGRGRFVERPLASKEDLVC
 TPQQYRASGSYFGLEENGR LFAPPSPETGEAKRS AFVEVKKAARASLQEEGTADGAVASEDQDAGGGG
 GSSTPAAASPVGAEKLLAPRPGGPLPSRLEGGSPARGSAFTSVPQLGSAGSTSGGGGTGAGAAGGAGGGQ
 GAASDERKSAFSQPARSFSQLSPLVLGQKLGAL EPCHPADGVGPTRLYPAAADPLAVKLQGAADLNGGCG
 SLPSSGGGLPKQSPFLYATAFWPKSSAAAAAAAAAAGPLQLQLPSALTLLPPSFTSLCLPAQNWCACK
 NASFRMTSDLVYHMRSHHKKEYAMEPLVKRRREEK LKCPICNESFRERHHL SRHMTSHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001099403

ORF Size: 2067 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_001099403.2](#)

RefSeq Size: 3150 bp

RefSeq ORF: 2070 bp

Locus ID: 56978

UniProt ID: [Q9NQV8](#)

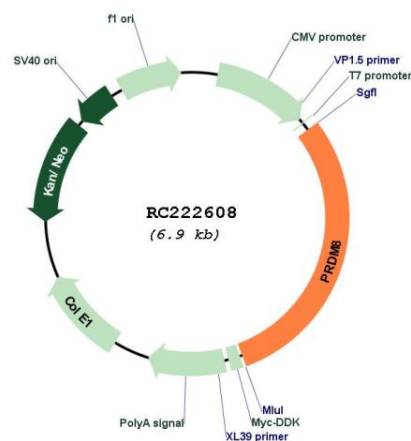
Cytogenetics: 4q21.21

Protein Families: Druggable Genome, Transcription Factors

MW: 71.7 kDa

Gene Summary: This gene encodes a protein that belongs to a conserved family of histone methyltransferases that predominantly act as negative regulators of transcription. The encoded protein contains an N-terminal Su(var)3-9, Enhancer-of-zeste, and Trithorax (SET) domain and a double zinc-finger domain. Knockout of this gene in mouse results in mistargeting by neurons of the dorsal telencephalon, abnormal itch-like behavior, and impaired differentiation of rod bipolar cells. In humans, the protein has been shown to interact with the phosphatase laforin and the ubiquitin ligase malin, which regulate glycogen construction in the cytoplasm. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC222608