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Product datasheet for SC318162

PRDM8 (NM_020226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM8 (NM_020226) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRDM8
Synonyms:	EPM10; KMT8D; PFM5
Vector:	pCMV6 series

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_020226, the custom clone sequence may differ by one or more nucleotides

ATGGAGGATACTGGCATCCAGCGAGGCATCTGGGATGGAGATGCCAAGGCTGTCCAACAA
TGTCTGACAGATATTTTTACCAGCGTTTACACCACCTGCGACATCCCTGAGAATGCTATA
TTTGGTCCCTGTGTCCTGAGCCATACTTCCCTATATGACAGCATAGCTTTCATAGCTCTC
AAGTCTACTGACAAGAGAACAGTACCGTATATCTTTCGGGTAGACACCTCAGCAGCAAAT
GGTTCCTCAGAAGGTCTCATGTGGCTGCGGTTGGTCCAATCGGCCAGAGATAAGGAAGAG
CAGAACCTTGAAGCCTACATAAAAAACGGACAGCTGTTCTACCGCTCTCTCCGCAGGATT
GCCAAAGACGAGGAGTTACTAGTTTGGTACGGGAAAGAACTGACTGAGTTACTCTTGCTC
TGCCCCTCTAGATCCCACAACAAAATGAATGGGTCGTCCCCTTACACATGCCTGGAATGC
AGCCAACGTTTCCAGTTTGAGTTCCCCTATGTGGCGCATCTGCGTTTCCGCTGCCCCAAG
AGACTTCACAGCGCTGATATAAGTCCCCAAGACGAACAAGGCGGCGGCGTGGGCACCAAG
GACCACGGGGGCGGCGGCGGCGGTGGCAAAGACCAGCAGCAGCAGCAGCAGGAGGCACCT
TTAGGCCCGGGTCCCAAGTTTTGCAAAGCCGGCCCCCTCCACCACTACCCATCCCCCTCC
CCGGAAAGCAGCAACCCATCCGCTGCCGCCGGCGGCAGCAGCGCGAAGCCATCCACAGAC
TTCCACAACCTGGCCAGGGAGCTGGAAAACTCCCGGGGAGGCAGCAGCTGCTCCCCAGCC
CAGAGCCTCAGCAGCGGTAGCGGCAGCGGCGGCGGCGGCGGCCACCAGGAGGCGGAGCTG
AGTCCCGACGGCATCGCCACGGGCGGCGGCAAAGGAAAGAGGAAATTCCCGGAGGAGGCG
GCGGAGGGCGGCGGTGGCGCTGGTCTGGTAGGGGGCCGGGGCCGCTTCGTAGAGCGGCCC
CTCCCGGCCTCCAAGGAGGATCTGGTGTGCACACCGCAGCAGTACCGAGCCTCGGGCAGC
TACTTCGGCCTGGAAGAGAACGGCCGCCTCTTCGCGCCGCCAAGTCCCGAGACGGGCGAG
GCGAAGCGCAGCGCCTTCGTGGAGGTGAAGAAGGCTGCCCGCGCGGCCAGCCTGCAGGAG
GAGGGGACAGCCGACGGCGCGGGAGTCGCCTCCGAGGACCAGGACGCTGGCGGCGGCGGC
GGCTCCTCCACGCCCGCGGCCGCGTCACCGGTGGGCGCCGAGAAGCTGCTGGCCCCGCGG
CCTGGGGGCCCGCTGCCCAGCCGGCTCGAGGGCGGCAGTCCTGCGAGGGGCAGCGCCTTC
ACTTCGGTGCCGCAGCTGGGCAGCGCGGGCAGCACCAGCGGTGGGGGCGGAACGGGCGCC
GGGGCCGCAGGCGGCGCGGGCGGGGGCCAGGGCGCCGCGTCGGACGAGCGCAAAAGCGCC
TTCTCGCAGCCAGCACGCTCTTTCTCGCAGCTGTCCCCGCTGGTGCTGGGCCAGAAGCTG
GGCGCGCTCGAGCCATGCCACCCCGCCGACGGCGTGGGCCCCACCAGACTCTATCCCGCC
GCCGCGGACCCTCTAGCGGTGAAGCTCCAGGGGGCCGCGGACCTGAACGGAGGTTGCGGG
TCCCTGCCGAGCGGCGGCGGCGGCCTGCCTAAGCAGAGCCCCTTCCTGTACGCCACCGCC
TTCTGGCCCAAGAGCTCCGCTGCCGCTGCAGCCGCGGCTGCGGCGGCGGCCGCGGGGCCC
TTGCAGCTGCAGCTGCCCTCGGCGCTCACGCTGCTGCCGCCCTCCTTCACCTCGCTGTGT
CTGCCCGCGCAGAACTGGTGCGCCAAGTGCAATGCCTCCTTCCGCATGACCTCCGACCTG
GTGTACCATATGAGGTCGCACCACAAAAAGGAGTATGCGATGGAGCCCTTGGTGAAGCGG
CGGCGAGAGGAGAAACTCAAGTGCCCCATCTGCAATGAGTCCTTCAGGGAGCGCCACCAC
CTCTCCAGGCACATGACCTCGCATAAT

Restriction Sites: Please inquire

ACCN: NM_020226

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_020226.3, NP_064611.3
RefSeq Size:	4118 bp
RefSeq ORF:	2070 bp
Locus ID:	56978
UniProt ID:	Q9NQV8
Cytogenetics:	4q21.21
Domains:	SET
Protein Families:	Druggable Genome, Transcription Factors

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]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.