

## Product datasheet for **SC316563**

### PRDM8 (NM\_001099403) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRDM8 (NM_001099403) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRDM8
Synonyms:	EPM10; KMT8D; PFM5
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001099403, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGATACTGGCATCCAGCGAGGCATCTGGGATGGAGATGCCAAGGCTGTCCAACAA
TGTCTGACAGATATTTTTACCAGCGTTTACACCACCTGCGACATCCCTGAGAATGCTATA
TTTGGTCCCTGTGTCCTGAGCCATACTTCCCTATATGACAGCATAGCTTTCATAGCTCTC
AAGTCTACTGACAAGAGAACAGTACCGTATATCTTTCGGGTAGACACCTCAGCAGCAAAT
GGTTCCCTCAGAAGGTCTCATGTGGCTGCGGTTGGTCCAATCGGCCAGAGATAAGGAAGAG
CAGAAACCTTGAAGCCTACATAAAAAACGGACAGCTGTTCTACCGTCTCTCCGCAGGATT
GCCAAAGACGAGGAGTTACTAGTTTGGTACGGGAAAGAACTGACTGAGTTACTCTTGCTC
TGCCCCTCTAGATCCCACAACAAAATGAATGGGTCGTCCCCTTACACATGCCTGGAATGC
AGCCAACGTTTCCAGTTTGGATTCCCCTATGTGGCGCATCTGCGTTTCCGCTGCCCAAG
AGACTTACACGCGCTGATATAAGTCCCCAAGACGAACAAGGCGGCGGCTGGGCACCAAG
GACCACGGGGGCGGCGGCGGCGGTGGCAAAGACCAGCAGCAGCAGCAGCAGGAGGACCT
TTAGGCCCGGTCCTCAAGTTTTCGAAAGCCGGCCCTCCACCCTACCCATCCCCTCC
CCGGAAGCAGCAACCCATCCGCTGCCGCGGCGCAGCAGCAGCAGGAGCCATCCACAGAC
TTCCACAACCTGGCCAGGAGCTGGAAAACCTCCGGGGAGGCAGCAGCTGCTCCCGAGCC
CAGAGCCTCAGCAGCGGTAGCGGCAGCGGCGGCGGCGGCCACCAGGAGGCGGAGCTG
AGTCCCGACGGCATCGCCACGGGCGGCGCAAAGGAAAGAGGAAATCCCGGAGGAGGCG
GCGGAGGGCGGCGGTGGCGCTGGTCTGGTAGGGGGCCGGGCGCTTCGTAGAGCGGCC
CTCCCGGCTCCAAGGAGGATCTGGTGTGCACACCGCAGCAGTACCGAGCCTCGGCGAGC
TACTTCGGCTGGAAGAGAACGGCCGCTTTCGCGCCGCAAGTCCCGAGACGGGCGAG
GCGAAGCGCAGCGCTTCGTGGAGGTGAAGAAGGCTGCCCGCGGCGCAGCCTGCAGGAG
GAGGGGACAGCCGACGGCGGGAGTGCCTCCGAGGACCAGGACGCTGGCGGCGGCGGG
GGCTCCTCCACGCGCCGCGCGCTCACCGGTGGGCGCCGAGAAGCTGCTGGCCCGCGG
CCTGGGGGCCGCTGCCAGCCGCTCGAGGGCGCAGTCTGCGAGGGGCGAGCGCTTC
ACTTCGGTGCCGCGAGTGGGCGAGCGGGCAGCACCAGCGGTGGGGGCGGAACGGGCGCC
GGGGCGCAGGCGGCGGGCGGGGCGGAGGGCGCGCTCGGACGAGCGCAAAAGCGCC
TTCTCGCAGCCAGCAGCTCTTCTCGCAGCTGTCCCGCTGGTGTGGGCCAGAAGCTG
GGCGCGCTCGAGCCATGCCACCCCGCCGACGGCGTGGGCCCCACCAGACTCTATCCCGCC
GCCGCGGACCCTTAGCGGTGAAGCTCCAGGGGCGCGGACCTGAACGGAGGTTGCGGG
TCCTGCGGAGCGGCGGCGGCGCTGCCTAAGCAGAGCCCTTCTGTACGCCACCGCC
TTCTGGCCCAAGAGCTCCGCTGCCGCTGCAGCCGCGCTGCGGGCGGCGCGCGGGGCC
TTGCAGCTGCAGCTGCCCTCGGCGCTCACGCTGCTGCCGCCCTCCTTACCTCGTGTGT
CTGCCCGCGCAGAACTGGTGCGCCAAGTGAATGCCTCCTTCCGCATGACCTCCGACCTG
GTGTACCATATGAGGTGCGACCACAAAAGGAGTATGCGATGGAGCCCTTGGTGAAGCGG
CGGCGAGAGGAGAACTCAAGTGCCCATCTGCAATGAGTCTTACGGGAGCGCCACCAC
CTCTCCAGGCACATGACCTCGCATAAT
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001099403
- 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).
- 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001099403.1, NP_001092873.1</u>
<b>RefSeq Size:</b>	3150 bp
<b>RefSeq ORF:</b>	2070 bp
<b>Locus ID:</b>	56978
<b>UniProt ID:</b>	<u>Q9NQV8</u>
<b>Cytogenetics:</b>	4q21.21
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.</p>