

## Product datasheet for **SC108651**

### 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
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_020226, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGATACTGGCATCCAGCGAGGCATCTGGGATGGAGATGCCAAGGCTGTCCAACAATGTCTGACAG
ATATTTTTACCAGCGTTTACACCACCTGCGACATCCCTGAGAATGCTATATTTGGTCCCTGTCTCCTGAG
CCATACTTCCCTATATGACAGCATAGCTTTCATAGCTCTCAAGTCTACTGACAAGAGAACAGTACCGTAT
ATCTTTTCGGGTAGACACCTCAGCAGCAAATGGTTCCTCAGAAGGTCTCATGTGGCTGCGGTTGGTCCAAT
CGGCCAGAGATAAAGGAAGAGCAGAACCTTGAAGCCTACATAAAAAACGGACAGCTGTTCTACCGCTCTCT
CCGCAGGATTGCCAAAGACGAGGAGTTACTAGTTTGGTACGGGAAAGAACTGACTGAGTTACTCTTGCTC
TGCCCCTCTAGATCCCACAACAAAATGAATGGTCTGCCCTTACACATGCCTGGAATGCAGCCAACGTT
TCCAGTTTGAGTCCCCTATGTGGCGCATCTGCGTTTCCGCTGCCCAAGAGACTTACAGCGCTGATAT
AAGTCCCCAAGACGAACAAGGCGCGCGTGGGCACCAAGGACCAGGGGCGCGCGCGCGGTTGGCAA
GACCAGCAGCAGCAGCAGCAGGAGGCACCTTTAGGCCGGGTCCAAGTTTTGCAAAGCCGGCCCCCTCC
ACCACTACCCATCCCCCTCCCCGAAAGCAGCAACCCATCCGCTGCCGCCGGCGCAGCAGCGCGAAGCC
ATCCACAGACTTCCACAACCTGGCCAGGAGCTGGAAAACCTCCCGGGGAGGCAGCAGCTGCTCCCAAGCC
CAGAGCCTCAGCAGCGGTAGCGGCAGCGCGCGCGCGGCCACCAGGAGGCGGAGCTGAGTCCCAGCG
GCATCGCCACGGGCGCGGCAAAGGAAAGAGGAAATCCCGGAGGAGGCGCGGAGGCGCGCGTGGCGC
TGGTCTGGTAGGGGGCCGGGCGCTTCGTAGAGCGGCCCTCCCGGCTCCAAGGAGGATCTGGTGTGC
ACACCGCAGCAGTACCGAGCCTCGGGCAGCTACTTCGGCTGGAAGAGAACGGCCGCTCTTCGCGCCG
CAAGTCCCAGACGGGCGAGGCGAAGCGCAGCGCCTTCGTGGAGGTGAAGAAGGCTGCCGCGCGGCCAG
CCTGCAGGAGGAGGGGACAGCCGACGGCGGGAGTGCCTCCGAGGACCAGGACGCTGGCGCGCGCCG
GGCTCTCCACGCCCGCGCGCGCTCACCGTGGGCGCCGAGAAGCTGCTGGCCCCGCGCGCGGGGCG
CGCTGCCAGCCGCTCGAGGGCGGCACTCCTGCGAGGGCGAGCGCTTCACTTCGGTGCCGACGCTGGG
CAGCGCGGGCAGCACAGCGGTGGGGCGGAACGGGCGCGGGGCGCAGGCGCGCGGGCGGGGCCAG
GGCGCGCGTCCGACGAGCGCAAAGCGCCTTCTCGCAGCCAGCAGCTTTTCTCGCAGCTGTCCCGC
TGGTGTGGGCCAGAAGCTGGGCGCGCTCGAGCCATGCCACCCCGCGACGGCGTGGGCCACCAGACT
CTATCCCGCGCGCGGACCCCTTAGCGGTGAAGCTCCAGGGGCGCGGACCTGAACGGAGTTGCGGG
TCCCTGCCGAGCGCGCGCGCGCTGCCTAAGCAGAGCCCTTCTGTACGCCACCGCCTTCTGGCCCA
AGAGTCCGCTGCCGCTGCAGCCGCGGCTGCGGCGCGCGCGGGGCCCTTGCAGCTGCAGCTGCCCTC
GGCGCTCAGCTGCTGCCGCCCTCTTACCTCGCTGTGTCTGCCCGCGCAGAAGTGGTGGCCAAAGTGC
AATGCCTCCTTCCGATGACCTCCGACCTGGTGTACCATATGAGGTGCGACCACAAAAGGAGTATGCGA
TGGAGCCCTTGGTGAAGCGGCGCGAGAGGAGAAACTCAAGTGCCCCATCTGCAATGAGTCTTCAGGGA
CGCCACCACCTCTCCAGGCACATGACCTCGCATAATTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_020226 unedited

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AAGAGGGCGCCAGCACCCGGGGCGGGCTACAGGGCTGGCTCTGCCCCGGCGTCCCGC
CCCCGCCCGGGGAACGCTGCCTCTGCCGCAAAGATGCCCCCTTCGCTGGAAAGCGGTG
CCTCCCTGGGTGCTCGCGAAAGCAGCCCTGAGAATGGCAGCTCTCAGAGTTGAAGTCAT
TCTTTTCGGGGACGGGGCACGGCGACTGTTTGATTGGGGGACTGTTTTCTACAATTT
CACAAAAGCCTCGTAGAGGAATGTGCAAGGACAGAAGGGAAACTGAGGAGACCCGCAA
CTCATTAGCGAAATAATAGGGTGCACCTCAATAAAAAATGCGGTCTGAAGTGGAGCAGC
TCACCGCAAGGAGCCCGAAAAATCGTCAGGGGCGCGGCAAAAATACTATCAAATCAGCC
TGAGAAGCATCTTTTCGCTCAGCAAGTTCAAGAGAACAAATATGTTACAATCCTTGCCTA
TTCTTGCCTCCACTTCATAATGTATAAAAGCCACCTGGGGTGTATTTATCAACCTCTC
TCCAGCCCACTTCCAAAATAAACAACACTACAGTTTCTACATGTGTATTTTGGCAGGACT
CCAAAGAGCCTTGCTAAAGTGGAAACAAGCAAAATCCTCCCTGGCCTCCTGGGACTGCAG
TCACCAGGCTGTNCAAGCCCTCATACCCCACTGAGTCCAGAGAAGGGTCTCNAAGCTGGG
AGAGGATCANACTAACATGAGTAGAGAATTGACTGTGAAAGAAGCCGAGATCCCCACG
ACGTGTGTTGCANCCCCGTGAAAGAGTCACTTGCCAGCTGTTAAGAACC
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_020226 unedited</p> <pre> ATGGACCGACGGCCGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTTTTGGCTTTGAAGAAA AAGTCATTTATTGTCAAAGCATCCAACATACTCGGATAAACTATAAAGTTTAATAAATAT TTCCAGGGATAAAAGAAACACATAACTATTCAGACTCCATTTCACTGGCACAAAATTACA CTTTGTATTAAGAAAATACATATGTACATAATTGATGACATTCTTCATTGAAGTCCAT TATCATTTCATTATACATGCACCTCCCCCTGGAAACTCAAATTGAATGGTATCCCTTTT TATTCATTTTGGTTATTTTGTAGGAACACAAACTGTCATCAAGAAATGCAGAAAGCATC TCACCCTCCTCTTACTTTATATCTAAAATAAATTTTGCCTTACATATAATTATTACA TCTAAATCGGAAGTGCTTAATAATTTAAGTAGAAACGTATGACAAATGCATCAATATGTT GCAATATATGACATTTTAAAAAATGTACCTTTGCTTTGGGGAAAGTAAAATGCGTGCAT TCAAAAACAAAACCCCTCAAACAACCCACCCAATCAAACCTCCACCATCCTGGCTCTTGT GTGTGAGTGAGTCTGTGTGTGTGTGTGGGGGGCGTCTACCCCTCACTCAAGCTCCC AACGCCCTACCATTCTCTCCCCCTACCTCCTCAACCCTCAAATTTCTCAATCCT TTTTTATGACCATACCGTACCCACCCCTCCTCGCACTCACATCCACCCTCTGCC ACTCTCTCCACTCCTCTACTGCCCTGCCTTCTCCGTATCCCCGGTCTATCGCGTACCA CGTGTGCAACCTCTCTAGTACTCCCACCACTNCCTTCCCTTCCACACACACACACAT TACATCCCTCTTCTCACCATTGCGATGCGCTCCCCGCCACCCTCCCTCTCTTTCTCTC CCCAACTTTACTCCCTCTTAACCCCTTCCCCGCCCTCCGATCNTCG </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020226
<b>Insert Size:</b>	4060 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<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>	<a href="#">NM_020226.1, NP_064611.1</a>

RefSeq Size:	4118 bp
RefSeq ORF:	900 bp
Locus ID:	56978
UniProt ID:	<u><a href="#">Q9NQV8</a></u>
Cytogenetics:	4q21.21
Domains:	SET
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<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 (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.</p>