

## Product datasheet for **SC119824**

### **PMS1 (NM\_000534) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PMS1 (NM_000534) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMS1
Synonyms:	HNPCC3; hPMS1; MLH2; PMSL1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC119824 sequence for NM\_000534 edited (data generated by NextGen Sequencing)

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ATGAAACAATTGCCTGCGGCAACAGTTCGACTCCTTTCAAGTTCTCAGATCATCACTTCG
GTGGTCAGTGTGTAAGAGACTTATTGAAAACCTTGGATGCTGGTCCACAAGCGTA
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TGTTGTATAGCTGAGGTTTTAATTACAACAAGAACGGCTGCTGATAATTTTAGCACCCAG
TATGTTTTAGATGGCAGTGGCCACATACTTTCTCAGAAACCTTCACATCTTGGTCAAGGT
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TTTTTTCATCATTTAACCTATCTTCCAGAACTACATGA

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Clone variation with respect to NM\_000534.4

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000534 unedited  GCAACGCCATTCGCACGAGGGCGCATCGGTTGAGACGCTGGCTGCTTGCGGCTAGTGGAT  GGTAATTGCCTGCCTCGCGCTAGCAGGAAGCTGCTCTGTTAAAAGCGAAAATGAAACAAT  TGCCTGCGGCAACAGTTCGACTCCTTTCAAGTTCTCAGATCATCACTTCGGTGGTCAGTG  NTTAAAATAGCTTATTGAAAACCTCTGGATGCTGGTGCCACAAGCGTAGATGTTAACT  GGAGAACTATGGATTTGATAAAAATTGAGGTGCGAGATAACGGGGAGGGTATCAAGGCTGT  TGATGCACCTGTAATGGCAATGAAGTACTACACCTCAAAAATAAATAGTCATGAAGATCT  TGAAAATTTGACAACTTACGGTTTTTCGTGGAGAAGCCTTGGGGTCAATTTGTTGTATAGC  TGAGGTTTTAATTACAACAAGAACGGCTGCTGATAATTTTAGCACCCAGTATGTTTTAGA  TGGCAGTGGCCACATACTTTCTCAGAAACCTTCACATCTTGGTCAAGGTACAACGTAACT  TGCTTTAAGATTATTTAAGAATCTACCTGTAAGAAAGCAGTTTTACTCAACTGCAAAAAA  ATGTAAGATGAAATAAAAAAGATCCAAGATCTCCTCATGAGCTTTGGTATCCTTAAACC  TGACTTAAGGATTGTCTTTGTACATAACAAGGCAGTTATTTGGCAGAAAAGCAGAGTATC  AGATCACAAAGATGGCTCTCATGTCAGTTCTGGGACTGCTGTTATGAACAATATGAAATC  CTTTCAGTACCACTCTGAAGAATCTCAGATTTATCTCAGTGAATTTCTTCCAAGTGTGAT  GCAGACCACTCTTCTAATCTTTCACACCAAAAAGATTTTCAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000534 unedited  TGGACGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAATAGTCTATATTA  GTTTTATTACGTTTTCTACAATACGTGGAACCTTTTTTCAATATAAAAAACAAGTCAGTGAA  TCCTCATTTAAAAATAACCATGTGACACATAATACAAAGATAATTTAAAACCAGACTCA  TGCTGTTTTATGACAGAACCAATTTCAATGGTAACTAATCTTCTTAAACATATTTAATCA  TGTAGTTTCTGGAAGATAGGTTAAATGATGAAAAAATGGGCGACCATGAACACACTCTTT  AATTTCAATTTCCAACTGGTGCTTCACTTCTGTAGATAATGTCTTGGATGTCCTCTTTTGA  TAAGTACATGGGTAATTGTCTGGATAGACGCACTGCTTCTCCCTCTAAATAACTTATCAC  TTTGCGAGGTCTACATTCATAAACTTCTTTGCATTTCTGTTAATATAGCATTAAAGAA  TTCTTTTAAATCTGCTACTCCATAGAATGGGAGACAATTAGCCATTCTTCTATTTCCAA  GTAATTTTCAGTAATTGAAACTCCTGGTATCAATTTTATCTTGAAACCATTGCTGTAAAG  ACGAGGATCAGACAGGTAAGTTGATCCACTGTATCTTTGGTCATCTGCTGTCATTTTATA  TAAAACGTCTAAATAATGAGATCCATTAATAAAGACTCTCTGTTAACATAATTTGGCTTTTC  CAGTGGCTCTGCANGAAAGTTATGATTCTCAAGAAAGTCTTTAATAGCANGGCTTCTTCT  ACTCATATGGATTATAAACATACCTCTGTTTGGNATGTCATTAGCCATGCATCAAGAAC  CTGAGATGTGGATCAAGCGGTTTCATCTTCTCTAGNCACTTGGTTTGTCTTAAATTA  TTTTTAGTTTTATAGAA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000534
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<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_000534.3</a> , <a href="#">NP_000525.1</a>
<b>RefSeq Size:</b>	3239 bp
<b>RefSeq ORF:</b>	2799 bp
<b>Locus ID:</b>	5378
<b>UniProt ID:</b>	<a href="#">P54277</a>
<b>Cytogenetics:</b>	2q32.2
<b>Domains:</b>	HMG, DNA_mis_repair, HATPase_c
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a protein belonging to the DNA mismatch repair mutL/hexB family. This protein is thought to be involved in the repair of DNA mismatches, and it can form heterodimers with MLH1, a known DNA mismatch repair protein. Mutations in this gene cause hereditary nonpolyposis colorectal cancer type 3 (HNPCC3) either alone or in combination with mutations in other genes involved in the HNPCC phenotype, which is also known as Lynch syndrome. [provided by RefSeq, Jul 2008]