

## Product datasheet for **SC201825**

### **PMS2 (NM\_000535) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	PMS2 (NM_000535) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PMS2
Synonyms:	HNPCC4; MLH4; MMRCS4; PMS2CL; PMSL2
ACCN:	NM_000535
Insert Size:	2000 bp



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**Insert Sequence:** >SC201825 3'UTR clone of NM\_000535  
 The sequence shown below is from the reference sequence of NM\_000535. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCCAACCTGGGTGTCATTTCTCAGAACGACCGTAGTCACTGTATGGAATAATTGGTTTTATCGCAGAT
TTTTATGTTTTGAAAGACAGAGTCTTCACTAACCTTTTTTGTGTTTTAAAATGAACCTGCTACTTAAAAAA
AATACACATCACACCCATTTAAAAGTGATCTTGAGAACCTTTTCAAACCAGATGGAGCATTGCTTGCAA
ATTTTTTTTCTCTATGTTTGCATGCGCTCGTGTGTGTGTGCCAGGCAAGAACACATTTTATAAAAAATA
AGAACACTTGGGCTGGGCATGGTGGCTCATGCCTGTGATCGCAGCACTTTGGGAGGCCGAGGCCGGCGG
ATCACCTGAGATCAGAAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCTGCCTCTACTAAAAATAC
AAAATTAGCCAGGTGTGCTGGCGCATGCCTGTAATCCCCGCTACCCAGGAGGCTGAGGCAGGAGAATCG
CTTGAACCGGGAGACGGAGGTTGCAGTGAACCGAGATTGCGCCACTGCGCTCCAGCCTGGGTGAGATA
GAACAAGACTGTGTCTCAAAAAACAAAACAAAACAAAAAACCCTTGAAG
TACTCAGGCCTCTGCTCTGGCTGGACATAGTTTAGTCTATAACTTTCAACCCTTAAATGATAATTAAT
TCATCTTTGTTTAAATTCATAAATTTAAAAGTAGGGTCTTTTTCAGTTAGTGATTCTCAGCCCTGATTC
ACATTAATTTTTAAACACGGGGGATTCTCTGCCCGGCTGGAAGAAAATGACTGGATGGGACAGGGGTC
ACTATTTGAAACATTCCTCTGTGCGGCCAAGGTCGAAAATGCTGCTCCTCGCAGGGGAACAAAAGAGT
TTGATTTCCATAATTTGATGCTGTGATTTGGTTTCTCAGGATGTGAAGTGTAGAACATTCCAGTTAC
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TCCTGTTTGAACCTGGCTGAAAATGGAAGTAAAGATGCCCTCTTGGGGGCCAGAGATGACAGATGTGG
CTCCCCCTGCTGCCCCACCCCTTCTCCAGACTGTGGCGGCTCCCTTCTGCTTTAGAAATCCCTCAG
ATGGAGGAGGCAGTACAGTAGTCACTGTGCCATCGTGTCTGGCACTGTGCTGGCGTGGTCTGCAGGATC
CCACTTATGAACTCTCCAGATTGGGAGCTGTGGCAGGATAACAGCCCCAAGACAGCTGTGCTCTAATC
CCCAGAACCTGTGACCACGCTGCCTCACGTGGCAGAGGGACTCGGCAGGTGTGATTGAGTGAAGGATC
TTTTTTTTTTTTTTTTTCTTTGAGATGAAGTTTCGCTCTTGTGCCCAGGCTGGAGTTCAATAGCATGATCT
CAGCTCACTGCAGCCTCTGCCTCCAGGTTCAAGTGATTTCTCCACCTCAGCCTCCCGAGTAGTGGGA
TTACAGGTGTCCAGAACCATACTGGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTACCATGTTGA
CCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCGACCGCCTCGGCCTCCCAAAGTGTGGGATTAC
AGGTGTGAGCCATCATGCCTGGCTGAGTTAAGGATCTTGCAACAGAGAGATTATCCTGGATTGTCTGGG
TGGGCCAGTCCATTGGGTGAGTCTTCAAAGGTGGAGACCTTTCCCTGCTGGCCAGAGAGAGGCTGTC
TTGCTGGTTTTGGAGATGGAAGGAGGTACCACTAGTCAAGGATTGCAAGCAGTCTCTAGAACAGGGATT
CCAACACTCCGGACACAGACCAGTAGTGGTCCATGGCCTATTAGGAAGTGGGGTGCACAGCAGGTTAGG
GGCCGGCAAGCCAGCGAAGCTTCATCTGATTTATAGCCACTCCCCGTCGCTGGCGTTACCACCCGAG
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_000535.7](#)

**Summary:**

The protein encoded by this gene is a key component of the mismatch repair system that functions to correct DNA mismatches and small insertions and deletions that can occur during DNA replication and homologous recombination. This protein forms heterodimers with the gene product of the mutL homolog 1 (MLH1) gene to form the MutL-alpha heterodimer. The MutL-alpha heterodimer possesses an endonucleolytic activity that is activated following recognition of mismatches and insertion/deletion loops by the MutS-alpha and MutS-beta heterodimers, and is necessary for removal of the mismatched DNA. There is a DQHA(X)2E(X)4E motif found at the C-terminus of the protein encoded by this gene that forms part of the active site of the nuclease. Mutations in this gene have been associated with hereditary nonpolyposis colorectal cancer (HNPCC; also known as Lynch syndrome) and Turcot syndrome. [provided by RefSeq, Apr 2016]

**Locus ID:**

5395

**MW:**

75.2