

Product datasheet for **SC323204**

PMS1 (NM_001128144) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMS1 (NM_001128144) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMS1
Synonyms:	HNPCC3; hPMS1; MLH2; PMSL1
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001128144, the custom clone sequence may differ by one or more nucleotides

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ATGAAACAATTGCCTGCGGCAACAGTTCGACTCCTTTCAAGTTCAGATCATCACTTCG
GTGGTCAGTGTGTAAGAGCTTATTGAAAACCTTGGATGCTGGTGCCACAAGCGTA
GATGTTAACTGGAGAATATGGATTTGATAAAATTGAGGTGCGAGATAACGGGGAGGGT
ATCAAGGCTGTTGATGCACCTGTAATGGCAATGAAGTACTACACCTCAAAAATAAATAGT
CATGAAGATCTTGAAAATTTGACAACCTACGGTTTTCTGGAGAAGCCTTGGGGTCAATT
TGTTGTATAGCTGAGGTTTTAATTACAACAAGAACGGCTGCTGATAATTTTAGCACCCAG
TATGTTTTAGATGGCAGTGGCCACATACTTTCTCAGAAACCTTCACATCTTGGTCAAGGT
ACAACCTGTAACCTGCTTTAAGATTATTTAAGAATCTACCTGTAAGAAAGCAGTTTTACTCA
ACTGCAAAAAATGTAAGATGAAATAAAAAAGATCCAAGATCTCCTCATGAGCTTTGGT
ATCCTTAAACCTGACTTAAGGATTGTCTTTGTACATAACAAGGCAGTTATTTGGCAGAAA
AGCAGAGTATCAGATCACAAGATGGCTCTCATGTCAGTTCTGGGGACTGCTGTTATGAAC
AATATGGAATCCTTTTCAGTACCCTCTGAAGAATCTCAGATTTATCTCAGTGGATTTCTT
CCAAAGTGTGATGCAGACCCTTTCTACTAGTCTTTCAACACCAGAAAGAAGTTTCATC
TTCATAAACAGTCGACCAGTACATCAAAAAGATATCTTAAAGTTAATCCGACATCATTAC
AATCTGAAATGCCTAAAGGAATCTACTCGTTTGTATCCTGTTTTCTTTCTGAAAAATCGAT
GTTCTACAGCTGATGTTGATGTAATTTAACACCAGATAAAAGCCAAGTATTATTACAA
AATAAGGAATCTGTTTTAATTGCTCTTGAAAATCTGATGACGACTTGTTATGGACCATTA
CCTAGTACAAATCTTATGAAAATAATAAACAGATGTTCCGCAGCTGACATCGTTCTT
AGTAAACAGCAGAAACAGATGTGCTTTTTAATAAAGTGAATCATCTGGAAAGAATTAT
TCAAATGTTGATACTTCAGTCAATCCATTCCAAAATGATATGCATAATGATGAATCTGGA
AAAAACTGATGATTGTTTAAATCACCAGATAAGTATTGGTGACTTTGGTTATGGTTCAT
TGTAGTGTGAAATTTCTAACATTGATAAAAACACTAAGAATGCATTTTCAGGACATTTCA
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TCCGTTAAGCACCCAGTCAGAAAATGGCAATAAAGACCATATAGATGAGAGTGGGGAA
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GAAAAAAGTTTACCATGTAAGTAAGTAATAATAATTATCCAATCCCTGAACAAATGAAT
CTTAATGAAGATTCATGTAACAAAAATCAAATGTAATAGATAATAAATCTGGAAAAGTT
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TTTGTTCAAGATCATCGTCCTCAGTTTCTCATAGAAAATCCTAAGACTAGTTTAGAGGAT
GCAACACTACAAATTGAAGAATGTGGAAGACATTGAGTGAAGAGGAAAAACTGAATCTT
TTAATGGATCTCATTATTTAGACGTTTTATATAAAATGACAGCAGATGACCAAAGATAC
AGTGGATCAACTTACCTGTCTGATCCTCGTCTTACAGCGAATGGTTTTCAAGATAAAATG
ATACCAGGAGTTTCAATTACTGAAAATTTACTTGAAAATAGAAGGAATGGCTAATTGTCTC
CCATTCTATGGAGTAGCAGATTTAAAAGAAATCTTAATGCTATATTAACAGAAATGCA
AAGGAAGTTTATGAATGTAGACCTCGCAAAGTGATAAGTTATTTAGAGGGAGAAGCAGTG
CGTCTATCCAGACAATTACCCATGTACTTATCAAAAGAGGACATCCAAGACATTATCTAC
AGAATGAAGCACCAGTTTGGAAAATGAAAATTAAGAGTGTGTTTCATGGTCGCCATTTTTT
CATCATTTAACCTATCTTCCAGAAACTACA
    
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Restriction Sites: Please inquire

ACCN: NM_001128144

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.
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:	<ol style="list-style-type: none">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:	<u>NM_001128144.1</u> , <u>NP_001121616.1</u>
RefSeq Size:	3052 bp
RefSeq ORF:	2313 bp
Locus ID:	5378
UniProt ID:	<u>P54277</u>
Cytogenetics:	2q32.2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) is also known as PMS1 nirs variant 2.</p>