

Product datasheet for **SC337384**

PMS1 (NM_001289409) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMS1 (NM_001289409) Human Untagged Clone
Tag:	Tag Free
Symbol:	PMS1
Synonyms:	HNPCC3; hPMS1; MLH2; PMSL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001289409, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTTTGGTATCCTTAAACCTGACTTAAGGATTGTCTTTGTACATAACAAGGCAGTTATTTGGCAGA
AAAGCAGAGTATCAGATCACAAGATGGCTCTCATGTGAGTTCTGGGGACTGCTGTTATGAACAATATGGA
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CACTCTTTCACTAGTCTTTCAACACCAGAAAGAAGTTTCATCTTATAAACAGTCGACCAGTACATCAAA
AAGATATCTTAAAGTAAATCCGACATCATTACAATCTGAAATGCCTAAAGGAATCTACTCGTTTGTATCC
TGTTTTCTTTCTGAAAATCGATGTTCTACAGCTGATGTTGATGTAATTTAACACCAGATAAAAGCCAA
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TACCTAGTACAAATCTTATGAAAATAATAAACAGATGTTTCCGCAGCTGACATCGTCTTAGTAAAAC
AGCAGAAAACAGATGTGCTTTTTAATAAAGTGGAATCATCTGGAAGAATTATTCAAATGTTGATACTTCA
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GACTTCTTGAGAATCATAAATCTCTGCAGAGCCACTGGAAGCAATATGTTAACAGAGAGTCTTTT
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AAAATTAATCTGGAATAGAAGGAATGGCTAATTGTCTCCCATCTATGGAGTAGCAGATTTAAAAGAAAT
TCTTAATGCTATATTAACAGAAATGCAAAGGAAGTTTATGAATGTAGACCTCGCAAAGTGATAAGTTAT
TTAGAGGGAGAAGCAGTGCCTATCCAGACAATTACCCATGACTTATCAAAGAGGACATCCAAGACA
TTATCTACAGAATGAAGCACCAGTTTGGAAATGAAATTAAGAGTGTGTTTATGTTGTCGCCATTTTTTCA
TCATTTAACCTATCTTCCAGAACTACATGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001289409

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).

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:

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: [NM_001289409.1](#), [NP_001276338.1](#)

RefSeq Size: 3247 bp

RefSeq ORF: 2271 bp

Locus ID: 5378

Cytogenetics: 2q32.2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: 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]

Transcript Variant: This variant (5) lacks two exons in the 5' coding region, and uses a downstream translation start, compared to variant 1. The encoded protein (isoform d) has a shorter N-terminus, compared to isoform a. Variants 4 and 5 both encode iso