

Product datasheet for **RC239489**

PMS1 (NM_001289408) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMS1 (NM_001289408) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PMS1
Synonyms:	HNPCC3; hPMS1; MLH2; PMSL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239489 representing NM_001289408
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGAGCTTTGGTATCCTTAACCTGACTTAAGGATTGTCTTTGTACATAACAAGGCAGTTATTTGGCAGA
 AAAGCAGAGTATCAGATCACAAGATGGCTCTCATGTCAAGTTCTGGGGACTGCTGTTATGAACAATATGGA
 ATCCTTTTCAGTACCACCTCTGAAGAATCTCAGATTATCTCAGTGGATTTCTTCCAAAGTGATGCAGAC
 CACTCTTTCAGTAGTCTTCAACACCAGAAAGAAGTTTCATCTTCATAAACAGTCGACCAGTACATCAAA
 AAGATATCTTAAAGTTAATCCGACATCATTACAATCTGAAATGCCTAAAGGAATCTACTCGTTTGTATCC
 TGTTTTCTTCTGAAAATCGATGTTCTACAGCTGATGTTGATGTAAATTTAACACCAGATAAAAGCCAA
 GTATTATTACAAAATAAGGAATCTGTTTAATTGCTCTTGAAAATCTGATGACGACTTGTATGGACCAT
 TACCTAGTACAAATCTTATGAAAATAATAAACAGATGTTTCCGCAGCTGACATCGTTCTTAGTAAAC
 AGCAGAAACAGATGTGCTTTTTAATAAAGTGGAATCATCTGGAAGAATTATTCAATGTTGATACTTCA
 GTCATTCCATTCCAAAATGATATGCATAATGATGAATCTGGAAGAACTGATGATTGTTTAAATCACC
 AGATAAGTATTGGTGACTTTGGTTATGGTCATTGTAGTAGTGAAATTTCTAACATTGATAAAAACTAA
 GAATGCATTTTCAGGACATTTCAATGAGTAATGTATCATGGGAGAACTCTCAGACGGAATATAGTAAACT
 TGTTTTATAAGTTCGGTTAAGCACACCCAGTCAGAAAAATGGCAATAAAGACCATATAGTAGAGTGGGG
 AAAATGAGGAAGAAGCAGGTCTTGAAAATCTTCGGAATTTCTGCAGATGAGTGGAGCAGGGGAAATAT
 ACTTAAAAATTCAGTGGGAGAGAATATTGAACCTGTGAAAATTTAGTGCCTGAAAAAGTTTACCATGT
 AAAGTAAGTAATAATAATTATCCAATCCCTGAACAAATGAATCTTAATGAAGATTCATGTAAACAAAAAT
 CAAATGTAATAGATAATAAATCTGGAAGTTACAGCTTATGATTTACTTAGCAATCGAGTAATCAAGAA
 ACCCATGTCAGCAAGTGCTCTTTTTGTTCAAGATCATCGTCCTCAGTTTCTCATAGAAAATCCTAAGACT
 AGTTTAGAGGATGCAACACTACAAATTGAAGAATGTGGAAGACATTGAGTGAAGAGGAAAACTGAAAT
 ATGAAGAGAAGGCTACTAAAGACTTGGAACGATACAATAGTCAAATGAAGAGAGCCATTGAACAGGAGTC
 ACAATGTCACTAAAAGATGGCAGAAAAAGATAAAACCCACCAGCGCATGGAATTTGGCCAGAAAGCAC
 AAGTTAAAAACCTCATTATCTAATCAACCAAACTTGATGAACCTCTCAGTCCCAAATGAAAAAGAA
 GGAGTCAAAATATTTAAATGGTACAGATCCCCTTTCTATGAAAACTTAAAAATAATTTTAAGAAACA
 AAACAAAGTTGACTTAGAAGAGAAGGATGAACCTTGCTTGATCCACAATCTCAGGTTTCTGATGCATGG
 CTAATGACATCCAAAACAGAGGTAAATGTTATTAATCCATATAGAGTAGAAGAAGCCCTGCTATTTAAA
 GACTTCTTGAGAATCATAACTTCCTGCAGAGCCACTGGAAGGCAATTATGTTAACAGAGAGTCTTTT
 TAATGGATCTCATTATTTAGACGTTTTATATAAATGACAGCAGATGACCAAAGATACAGTGGATCAACT
 TACCTGTCTGATCCTCGTCTTACAGCGAATGGTTTCAAGATAAAATTTGATACCAGGAGTTTCAATTA
 ACTGAAAATTTGGAATAGAAGGAATGGCTAATTGTCTCCCATCTATGGAGTAGCAGATTTAAAGAAAT
 TCTTAATGCTATATTAACAGAAATGCAAAGGAAGTTTATGAATGTAGACCTCGCAAAGTGATAAGTTAT
 TTAGAGGGAGAAGCAGTGCGTCTATCCAGACAATTACCATGTACTTATCAAAAGAGGACATCCAAGACA
 TTATCTACAGAATGAAGCACCAGTTTGAAATGAAATTAAGAGTGTGTTTCATGGTCGCCATTTTTTCA
 TCATTTAACCTATCTTCAGAACTACA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239489 representing NM_001289408
Red=Cloning site Green=Tags(s)

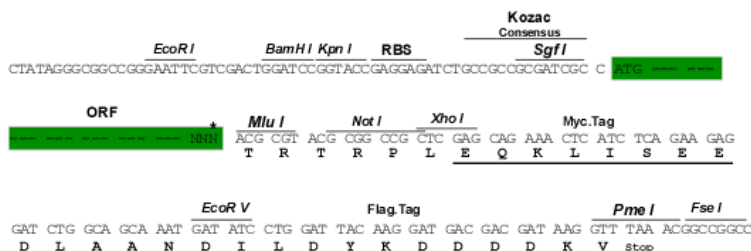
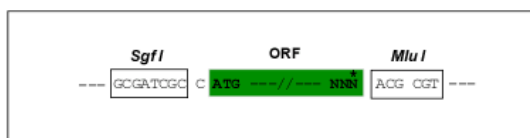
MSFGILKPDLRIVFVHNKAVIWQKSRVSDHKMALMSVLGTAVMNNMESFQYHSEESQIYLSGFLPKCAD
HSFTSLSTPERSFIFINSRPVHQDKILKIRHHYNLKCLKESTRLYPVFFLKIDVPTADVDVNLTPDKSQ
VLLQNKESVLI ALENLMTTCYGPLSTNSYENNKTDVSAADIVLSKTAETDVLFNKVESSGKNYSNVDTS
VIPFQNDMHNDESGKNTDDCLNHQISIGDFGYGHCSEISNIDKNTKNAFQDISMSNVSWENSQTEYSKT
CFISSVKHTQSENGKDHIDEGENEEEEAGLENSEISADEWSRGNILKNSVGENIEPVKILVPEKSLPC
KVSNNNYPPEQMNLNEDSCNKKSNVIDNKSQKVTAIDLLSNRVIKKPMASALFVQDHRPQFLIENPKT
SLEDATLQIEELWKTLSSEEKLYEEKATKDLERYNSQMKRAIEQESQMSLKDGRKKIKPTSAWNLAQKH
KLKTSLSNQPKLDELLQSQIEKRRSQNIKMVQIPFSMKNLKINFKKQNKVDLEEKDEPCLIHNLRFPAW
LMTSKTEVMLLNPPYRVEEALLFKRLLENHKLPAEPLKPIMLTESLFNGSHYLDVLKYMTADDQRYSGST
YLSDPRLTANGFKMLIPGVSITENTYLEIEGMANCLPFYGADLKEILNAILNRNAKEVYECRPKVISY
LEGEAVRLSROLPMYLSKEDIODIYRMKHOFGNEIKECVHGRPFPHHILTYLPETT

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001289408

ORF Size: 2268 bp

OTI Disclaimer: 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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001289408.1](#), [NP_001276337.1](#)

RefSeq Size: 3430 bp

RefSeq ORF: 2271 bp

Locus ID: 5378

UniProt ID: [P54277](#)

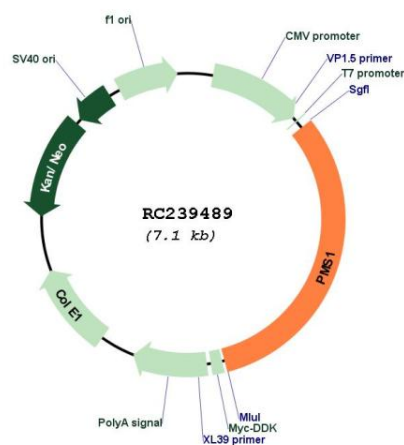
Cytogenetics: 2q32.2

Protein Families: Druggable Genome, Transcription Factors

MW: 87 kDa

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]

Product images:



Circular map for RC239489