

Product datasheet for **RC226240**

PMS1 (NM_001128143) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PMS1 (NM_001128143) 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)



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ORF Nucleotide
Sequence:

>RC226240 representing NM_001128143
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAACAATTGCCTGCGCAACAGTTCGACTCCTTTCAAGTTCTCAGATCATCACTTCGGTGGTCAGTG
 TTGTAAGAGAGCTTATTGAAAACCTCTGGATGCTGGTGCCACAAGCGTAGATGTTAAACTGGAGAACTA
 TGGATTTGATAAAATTGAGGTGCGAGATAACGGGGAGGGTATCAAGGCTGTTGATGCACCTGTAATGGCA
 ATGAAGTACTACACCTCAAAAATAAATAGTCATGAAGATCTTGAAAATTTGACAACCTACGGTTTTTCGTG
 GAGAAGCCTTGGGGTCAATTTGTTGATAGCTGAGGTTTTAATTACAACAAGAACGGCTGCTGATAATTT
 TAGCACCCAGTATGTTTTAGATGGCAGTGGCCACATACTTTCTCAGAAACCTTCACATCTGGTCAAGGT
 ACAACTGTAACCTGCTTTAAGATTATTTAAGAATCTACCTGTAAGAAAGCAGTTTTACTCACTGCAAAAA
 AATGTAAGATGAAATAAAAAAGATCCAAGATCTCCTCATGAGCTTTGGTATCCTTAAACCTGACTTAAG
 GATTGTCTTTGTACATAACAAGATTTATCTCAGTGGATTTCTTCAAAGTGTGATGCAGACCACTCTTTC
 ACTAGTCTTTCAACACCAGAAAAGATTTTCATCTTCATAAACAGTCGACCAGTACATCAAAAAGATATCT
 TAAAGTTAATCCGACATCATTACAATCTGAAATGCCTAAAGGAATCTACTCGTTTGTATCCTGTTTTCTT
 TCTGAAAATCGATGTTCCCTACAGCTGATGTTGATGTAATTTAACACCAGATAAAAGCCAAGTATTATTA
 CAAAATAAGGAATCTGTTTTAATTGCTCTTGAAAATCTGATGACGACTTGTATGGACCATTACCTAGTA
 CAAATCTTATGAAAATAATAAAACAGATGTTCCGCAGCTGACATCGTTCCTTAGTAAAACAGCAGAAAAC
 AGATGTGCTTTTTAATAAAGTGGAAATCATCTGGAAGAATTATTCAAATGTTGATACTTCAGTCATTCCA
 TTCCAAAATGATATGCATAATGATGAATCTGGAAAAACACTGATGATTGTTTAAATCACCAGATAAGTA
 TTGGTGACTTTGGTTATGGTCATTGTAGTGAATTTCTAACATTGATAAAAACACTAAGAATGCATT
 TCAGGACATTTCAATGAGTAATGTATCATGGGAGAACTCTCAGACGGAATATAGTAAAACCTGTTTTATA
 AGTTCCGTTAAGCACACCCAGTCAGAAAATGGCAATAAAGACCATATAGATGAGAGTGGGAAAAATGAGG
 AAGAAGCAGGTCTTGAAAACCTCTCGGAAAATTTCTGCAGATGAGTGGAGCAGGGGAAATATACTTAAAAA
 TTCAGTGGGAGAGAATATTGAACCTGTGAAAATTTAGTGCTGAAAAAAGTTTACCATGTAAGTAAGT
 AATAATAATTATCCAATCCCTGAACAAATGAATCTTAATGAAGATTATGTAACAAAAAATCAAATGTAA
 TAGATAATAAATCTGAAAAGTTACAGCTTATGATTTACTTAGCAATCGAGTAATCAAGAAACCCATGTC
 AGCAAGTGCTCTTTTTGTTCAAGATCATCGTCTCAGTTTCTCATAGAAAATCCTAAGACTAGTTTAGAG
 GATGCAACACTACAAATGAAGAAGTGTGGAAGACATTGAGTGAAGAGGAAAAACTGAAATATGAAGAGA
 AGGCTACTAAAGACTTGGAACGATACAATAGTCAAATGAAGAGAGCCATTGAACAGGAGTCACAAATGTC
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 ACCTCATTATCTAATCAACCAAACTTGATGAACTCCTTCAGTCCCAAATGAAAAAAGAAGGAGTCAAA
 ATATTAATGTTACAGATCCCTTTTCTATGAAAAACTTAAAAATAAATTTTAAAGAAACAAAACAAAGT
 TGACTTAGAAGAGAAGGATGAACCTTGCTTGATCCACAATCTCAGGTTTCCTGATGCATGGCTAATGACA
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 AGAATCATAACTTCTGCAGAGCCACTGGAAAAGCCAATTATGTTAACAGAGAGTCTTTTAAATGGATC
 TCATTATTTAGACGTTTTATATAAAATGACAGCAGATGACCAAAGATACAGTGGATCAACTACCTGTCT
 GATCCTCGTCTTACAGCGAATGGTTTCAAGATAAAATTGATACCAGGAGTTTCAATTAAGTAAAAATTA
 TGGAAATAGAAGGAATGGCTAATTGTCTCCATTCTATGGAGTAGCAGATTTAAAAGAAATCTTAAATGC
 TATATTAACAGAAATGCAAAGGAAGTTTATGAATGTAGACCTCGCAAAGTGATAAGTTATTTAGAGGGA
 GAAGCAGTGCCTATCCAGACAATTACCCATGTACTTATCAAAAAGAGGACATCCAAGACATTATCTACA
 GAATGAAGCACCAGTTGGAAATGAAATTAAGAGTGTGTTTCATGGTCGCCATTTTTTCATCATTTAAC
 CTATCTCCAGAACTACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226240 representing NM_001128143
 Red=Cloning site Green=Tags(s)

MKQLPAATVRLSSSQIITSVSVVKELIENSLDAGATSVDVKLENYGFDKIEVRDNGEGIKAVDAPVMA
 MKYYTSKINSHEDLENLTTYGFRGEALGSICCIAEVLITRRTAADNFSTQYVLDGSGHILSQKPSHLGQG
 TTVTALRLFKNLPVRKQFYSTAKKCKDEIKKIQLDLSMFGILKPDLRIVFVHMKIYLSGFLPKCDADHSF
 TSLSTPERSFIFINSRPVHQDKILKLRHHYNLKCLKESTRLYPVFFLKIDVPTADVVDNLTPDKSQVLL
 QNKESVLI ALENMTTCYGLPSTNSYENKTDVSAADIVLSKTAETDVLFNKVESSGKNYSNVDTSVIP
 FQNDMHNDESGKNTDDCLNHQISIGDFGYGHCSEISNIDKNTKNAFQDISMSNVSWENSQTEYSKTCFI
 SSVKHTQSENGKDHIDESGENEEEEAGLENSSEISADEWSRGNILKNSVGENIEPVKILVPEKSLPKCVS
 NNNYPIPEQMNLNEDSCNKKSNVIDNKSGKVTAYDLLSNRVIKKPMSASALFVQDHRPQFLIENPKTSLE
 DATLQIEELWKTLSSEELKYEEKATKDLERYNSQMKRAIEQESQMSLDGRKKIKPTSAWNLAQKHKLK
 TSLSNQPKLDELLQSQIEKRRSQNIKMVQIPFSMKNLKNFKKQNKVDLEEKDEPCLIHNLRFDAWLMT
 SKTEVMLLNPNYVEEALLFKRLLENHKLPAEPLKPIMLTESLFGNSHYLDVLYKMTADDQRYSGSTYLS
 DPRLTANGFKIKLIPGVSITENYLEIEGMANCLPFYGVADLKEILNAILNRNAKEYVEYECRPRKVISYLEG
 EAVRLSRQLPMYLSKEDIQDIIYRMKHQFGNEIKECVHGRPFHHHTYLPETT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

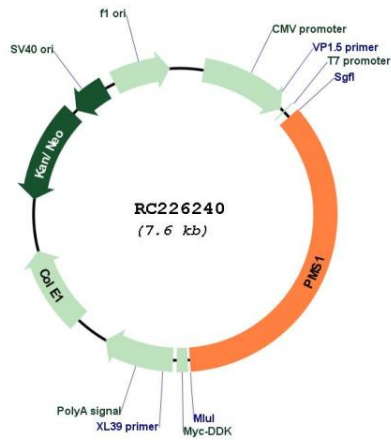


* The last codon before the Stop codon of the ORF

ACCN: NM_001128143

ORF Size:	2679 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:	<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:	NM_001128143.2
RefSeq ORF:	2682 bp
Locus ID:	5378
UniProt ID:	P54277
Cytogenetics:	2q32.2
Protein Families:	Druggable Genome, Transcription Factors
MW:	101.2 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 RC226240