

Recombinant Full Length Human PMS2 Protein, C-Flag-tagged

Cat. No. PMS2-1490HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PMS2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	95.6 kDa
AA Sequence	MERAESSSTEPAKAIKPIDRKSVHQICSGQVVLSTAVKELVENS LDAGATNIDLKL KDYGVDLIEVSD NGCGVEEENFEGLTLKHHTSKIQEFADLTQVETFGFRGEALSSLC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ALSDVTISTCHASAKVGTRLMFHDN GKIIQKTPYPRPRGTTVSVQQLFSTLPVRHKE
 FQRNIKEYAKMVQVLHAYCIIISAGIRVSCTNQLGQ GK RQPVVCTGGSPSIKENIGS
 VFGQKQLQSLIPFVQLPPSDSVCEEYGLSCSDALHNLFYISGFISQCTHGV GRSSTD
 RQFFFINRRPCDPAKVCRLVNEVYHMYNRHQYPFVVLNISVDSECVDINVTDPKRQI
 LLQEEKL LLAVLKTSLIGMFDSVDNKLNVSQQLLDVEGNLIKMHAAADLEKPMVEKQ
 DQSPSLRTGEEKKDVSISRL REAFSLRHTTENKPHSPKTPEPRRSPLGQKRGMLSS
 STSGAISDKGVLRPQKEAVSSSHGPSDPTDRAEV EKDSGHGSTSVDSSEGFSIPDTG
 SHCSSEYAASSPGDRGSQEHVDSQEKAPETDDSFSDVDCHSNQEDTGC KFRVLP
 QPTNLATPNTKRFKKEEILSSSDICQKLVNTQDMSASQVDVAVKINKKVPLDFSIS
 LAKRIK QLHHEAQQSEGEQNYRKFRACICPGENQA AEDELKEISKTMFAEMEIIQG
 FNLGFIITKLNEDIFVDQ HATDEKYNFEMLQQHTVLQGGQRLIAPQTLNLTAVNEAVLI
 ENLEIFRKNGFDFVIDENAPVTERAKLISL PTSKNWTFGPQDVDELIFMLSDSPGVM
 CRPSRVKQMFASRACRKSVMIGTALNTSEMKKLITHMGEMDHP
 WNCPHGRPTMRHIANLGVISQNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Mismatch repair

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com
 Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Full Length
Full L.

GENE INFORMATION

Gene Name PMS2 PMS1 homolog 2, mismatch repair system component [Homo sapiens (human)]

Official Symbol PMS2

Synonyms MLH4; PMS-2; PMSL2; HNPCC4; LYNCH4; MMRCS4; PMS2CL

Gene ID 5395

mRNA Refseq NM_000535.7

Protein Refseq NP_000526.2

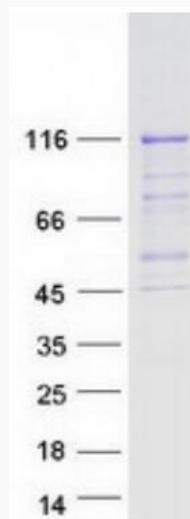
MIM 600259

UniProt ID P54278

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified PMS2 protein.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA