

Product datasheet for TP310880

PMS2 (NM_000535) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human PMS2 postmeiotic segregation increased 2 (*S. cerevisiae*) (PMS2), transcript variant 1, 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC210880 protein sequence
Red=Cloning site Green=Tags(s)

MERAESSSTEPAKAIKPIDRKSVDHQCISGQVWLSLSTAVKELVENS LDAGATNIDLKLDYGVDLIEVSD
 NGCGVEEENFEGLTLKHHTSKIQEFADLTQVETFGFRGEALSSLCALSDVTISTCHASAKVGT RLMFDHN
 GKIIKTPYPRPRGTTVSQQLFSTLPVRHKEFQRNIKEYAKMVQVLHAYCIISAGIRVSCTNQLGQ GK
 RQPVVCTGGSPSIKENIGSVFGQKQLQSLIPFVQLPPSDSVCEEYGLSCSDALHNLFYISGFISQCTHGV
 GRSSTDQRQFFFINRRPCDPAKVCRLVNEVYHMYNRHQYPFVVLNISVDSECVDINVTDPDKRQILLQEEKL
 LLAVLKTSLIGMFDSDVNKLNVSQQPLLDVEGNLIKMHAAADLEKPMVEKQDQSPSLRTGEEKKDVSISRL
 REAFSLRHTTENKPHSPKTPEPRRSLGQKRGMLSSSTSGAISDKGVLRPQKEAVSSSHGSPSDPTDRAEV
 EKDSGHGSTSVDSEGFSIPDTGSHCSSEYAASSPGDRGSQEHVDSQEKAPETDDSFSDVDCHSNQEDTGC
 KFRVLPQPTNLATPNTKRFKKEEILSSSDICQLVNTQDMSASQVDVAVKINKKVVPLDFSISSLAKRIK
 QLHHEAQQSEGEQNYRKFRAKICPGENQAAEDELKREISKTMFAEMEIIQG FNLGFIITKLNEDIFIVDQ
 HATDEKYNFEMLQQHTVLQGQRLIAPQTLNLTAVNEAVLIENLEIFRKNGFDFVIDENAPVTERAKLISL
 PTSKNWTFGPQDVDELIFMLSDSPGVMCRPSRVKQMFASRACRKSVMIGTALNTSEMKKLITHMGEMDHP
 WNCPHGRPTMRHIANLGVISQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

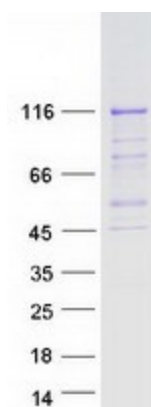
Tag: C-Myc/DDK
Predicted MW: 95.6 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000526
Locus ID:	5395
UniProt ID:	P54278 , B4DGM0 , Q7Z3Q2
RefSeq Size:	2851
Cytogenetics:	7p22.1
RefSeq ORF:	2586
Synonyms:	HNPCC4; MLH4; MMRC54; PMS2CL; PMSL2
Summary:	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. [provided by RefSeq, Apr 2016]
Protein Families:	Druggable Genome
Protein Pathways:	Mismatch repair

Product images:



Coomassie blue staining of purified PMS2 protein (Cat# TP310880). The protein was produced from HEK293T cells transfected with PMS2 cDNA clone (Cat# [RC210880]) using MegaTran 2.0 (Cat# [TT210002]).