

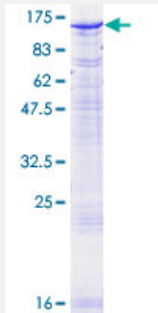
Full-Length

PMS2 (Human) Recombinant Protein (P01)

Catalog # H00005395-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PMS2 full-length ORF (NP_000526.1, 1 a.a. - 862 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MERAESSSTEPAKAIKPIDRKSVHQICSGQVVLSLSTAVKELVENSLDAGATNIDLKLDYGVDLIE
VSDNGCGVEEENFEGLTLKHHTSKIQEFADLTQVETFGFRGEALSSLCALSDVTISTCHASAKVG
TRLMFDHNGKIIQKTPYRPRGTTVSVQQLFSTLPVRHKEFQRNIKEYAKMVQVLHAYCIISAGIRV
SCTNQLGQGKRQPVVCTGGSPSIKENIGSVFGQKQLQSLIPFVQLPPSDSVCEEYGLSCSDALHN
LFYISGFISQCTHGVGRSSTDQRQFFINRRPCDPAKVCRLVNEVYHMYNRHQYPFVVLNISVDSEC
VDINVTDPKRQILLQEEKLLLAVLKTSLIGMFDSDVNKLNVSQQLLDVEGNLIKMHAAADLEKPMV
EKQDQSPSLRTGEEKKDVSIKRLREAFSLRHTTENKPHSPKTPEPRRSPLGQKRGMLSSSTSGAI
SDKGVLRPQKEAVSSSHGPSDPTDRAEVEKDSGHGSTSVDSEGFSIPDTGSHCSSEYAASSPG
DRGSQEHVDSQEKAPETDDSFSDVDCHSNQEDTGCKFRVLPQPTNLATPNTKRFKKEEILSSS
DICQKLVNTQDMSASQVDVAVKINKKVPLDFSMSSLAKRIQLHHEAQQSEGEQNYRKFRAKIC
PGENQAAEDELKREISKTMFAEMEIGQFNLGFIITKLNEDIFVDQHATDEKYNFEMLQQHTVLQGG
RLIAPQTLNLTAVNEAVLIENLEIFRKNMGDFVIDENAPVTERAKLISLPTSKNWTFGPQDVDELIFML
SDSPGVMCRPSRVKQMFASRACRKSVMIGTALNTSEMKKLITHMGEMDHPWNCPHGRPTMRHI
ANLGVISQN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

122.2

Interspecies Antigen Sequence

Mouse (77)

Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PMS2

Entrez GeneID	5395
GeneBank Accession#	NM_000535.4
Protein Accession#	NP_000526.1
Gene Name	PMS2
Gene Alias	HNPCC4, PMS2CL, PMSL2
Gene Description	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)
Omim ID	276300 600259 608623
Gene Ontology	Hyperlink

Gene Summary

This gene is one of the PMS2 gene family members found in clusters on chromosome 7. The product of this gene is involved in DNA mismatch repair. It forms a heterodimer with MLH1 and this complex interacts with other complexes bound to mismatched bases. Mutations in this gene are associated with hereditary nonpolyposis colorectal cancer, Turcot syndrome, and are a cause of supratentorial primitive neuroectodermal tumors. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq]

Other Designations

DNA mismatch repair protein|H_DJ0042M02.9|PMS2 postmeiotic segregation increased 2|mismatch repair endonuclease|postmeiotic segregation increased 2

Pathway

- [Mismatch repair](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Breast cancer](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Duodenal Neoplasms](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Ileal Neoplasms](#)
- [Jejunal Neoplasms](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)

- [Meningioma](#)
- [Microsatellite Instability](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)