

## Recombinant Human MSH2 protein, MYC/DDK-tagged

Cat. No. MSH2-493H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MSH2 fused with MYC/DDK tag at the C-terminus was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene.
<b>Form</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	104.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method

### GENE INFORMATION

<b>Gene Name</b>	MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) [ Homo sapiens ]
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Official Symbol</b>	<a href="#">MSH2</a>
<b>Synonyms</b>	MSH2; mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli); COCA1, mutS (E. coli) homolog 2 (colon cancer, nonpolyposis type 1); DNA mismatch repair protein Msh2; HNPCC; HNPCC1; hMSH2; FCC1; COCA1; LCFS2;
<b>Gene ID</b>	<a href="#">4436</a>
<b>mRNA Refseq</b>	<a href="#">NM_000251</a>
<b>Protein Refseq</b>	<a href="#">NP_000242</a>
<b>MIM</b>	<a href="#">609309</a>
<b>UniProt ID</b>	<a href="#">P43246</a>
<b>Chromosome Location</b>	2p21
<b>Pathway</b>	BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Mismatch repair, organism-specific biosystem; Mismatch repair, conserved biosystem; Pathways in cancer, organism-specific biosystem;
<b>Function</b>	contributes_to ADP binding; contributes_to ATP binding; contributes_to ATPase activity; DNA binding; DNA-dependent ATPase activity; contributes_to MutLalpha complex binding; Y-form DNA binding; centromeric DNA binding; damaged DNA binding; contributes_to dinucleotide insertion or deletion binding; contributes_to dinucleotide repeat insertion binding; double-strand/single-strand DNA junction binding

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