

## Recombinant Human MSH2

**Cat. No.** MSH2-28793TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 835-934 of Human MSH2 with an N terminal proprietary tag; Predicted MWt 36.63 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	MSH2 was identified as a locus 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.
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Tissue specificity</b>	Ubiquitously expressed.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

**Sequences of amino acids** NFPKHVIECAKQKALELEEFQYIGESQGYDIMEPAAKKCYLEREQGEKIIQEFLSKVK  
QMPFTEMSEENITIKLKQLKAEVIAKNNSFVNEIISRIKVTT

**Sequence Similarities** Belongs to the DNA mismatch repair mutS family.

## GENE INFORMATION

**Gene Name** MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) [ Homo sapiens ]

**Official Symbol** MSH2

**Synonyms** 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;

**Gene ID** 4436

**mRNA Refseq** NM\_000251

**Protein Refseq** NP\_000242

**MIM** 609309

**Uniprot ID** P43246

**Chromosome Location** 2p21

**Pathway** BRCA1-associated genome surveillance complex (BASC), organism-specific

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biosystem; Colorectal cancer, organism-specific biosystem; Colorectal cancer, conserved biosystem; Direct p53 effectors, organism-specific biosystem; Mismatch repair, organism-specific biosystem;

**Function**

contributes\_to ADP binding; contributes\_to ATP binding; contributes\_to ATPase activity; DNA binding; DNA-dependent ATPase activity;

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