

Product datasheet for **TP762320**

MSH2 (NM_000251) Human Recombinant Protein

Product data:

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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human mutS homolog 2, colon cancer, nonpolyposis type 1 (E.coli) (MSH2), Tyr815-Asn920, with N-terminal His tag, expressed in E.coli, 50ug |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | A DNA sequence encoding the region(Tyr815-Asn920) of MSH2 |
| Tag: | N-His |
| Predicted MW: | 12.2 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, pH 8.0, 150 mM NaCl, 10% glycerol |
| 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 after receiving vials. |
| 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_000242 |
| Locus ID: | 4436 |
| UniProt ID: | P43246 |
| RefSeq Size: | 3226 |
| Cytogenetics: | 2p21-p16.3 |
| RefSeq ORF: | 2802 |
| Synonyms: | COCA1; FCC1; hMSH2; HNPCC; HNPCC1; LCF52; MMRC52 |



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Summary:

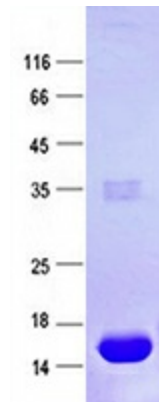
This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

Protein Families:

Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Colorectal cancer, Mismatch repair, Pathways in cancer

Product images:

Purified recombinant protein MSH2 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.