

Product datasheet for TP762119

MSH6 (NM_000179) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of Human mutS homolog 6 (E. coli) (MSH6), Met1-Ser280, with Nterminal His tag, expressed in E. coli, 50ug Species: Human **Expression Host:** E. coli **Expression cDNA Clone** A DNA sequence encoding the region(Met1-Ser280) of MSH6 or AA Sequence: N-His Tag: Predicted MW: 30.7 kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 50 mM Tris-HCl, pH 8.0, 8 M urea Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Store at -80°C. Storage: 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 000170 Locus ID: 2956 **UniProt ID:** P52701, Q3SWU9 4264 **RefSeq Size:** Cytogenetics: 2p16.3 **RefSeq ORF:** 4080 Synonyms: GTBP; GTMBP; HNPCC5; HSAP; MMRCS3; p160



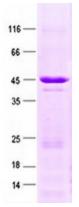
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Summary:	This gene encodes a member of the DNA mismatch repair MutS family. In E. coli, the MutS protein helps in the recognition of mismatched nucleotides prior to their repair. A highly conserved region of approximately 150 aa, called the Walker-A adenine nucleotide binding motif, exists in MutS homologs. The encoded protein heterodimerizes with MSH2 to form a mismatch recognition complex that functions as a bidirectional molecular switch that exchanges ADP and ATP as DNA mismatches are bound and dissociated. Mutations in this gene may be associated with hereditary nonpolyposis colon cancer, colorectal cancer, and endometrial cancer. Transcripts variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]
Protein Families	: Druggable Genome, Stem cell - Pluripotency
Protein Pathway	rs: Colorectal cancer, Mismatch repair, Pathways in cancer

Product images:



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