



# Recombinant Human DNA mismatch repair protein Msh6(MSH6),partial

<b>Product Code</b>	CSB-EP015032HU
<b>Relevance</b>	Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS alpha, which binds to DNA mismatches thereby initiating DNA repair. When bound, MutS alpha bends the DNA helix and shields approximately 20 base pairs, and recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. After mismatch binding, forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis. ATP binding and hydrolysis play a pivotal role in mismatch repair functions
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P52701
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Alias</b>	G/T mismatch-binding protein ;GTBP ;GTMBPMutS-alpha 160 kDa subunit ;p160
<b>Product Type</b>	Recombinant Protein
<b>Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAAPGASPSPPGGDAAWS EAGPGPRPLARSASPPKAKNLNGGLRRSVAPAAPTSCDFSPGDLVWAKMEG YPWWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKPYTGS KSKEAQKGGHFYSAKPEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEE MEVGTTYVTDKSEEDNEIESEEEVQPKTQGSRRSSRQIKKRRVISDSESDIGG SDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKRKMVTGNGSLKR KSSRKETPSATKQATSISSETKNTLRAFSAPQNSESAHVSGGGDDSSRPTV WYHETLEWLKKEEKRRDEHRRRPDHPDFDASTLYVPE
<b>Research Area</b>	Epigenetics and Nuclear Signaling
<b>Source</b>	E.coli
<b>Gene Names</b>	MSH6
<b>Expression Region</b>	1-400aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged

