

# Recombinant Full Length Human MLH1 Protein, GST-tagged

Cat. No. MLH1-6353HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MLH1 full-length ORF ( AAH06850, 1 a.a. - 756 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	756 amino acids
<b>Description</b>	This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). It is a human homolog of the E. coli DNA mismatch repair gene mutL, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Alternatively spliced transcript variants encoding different isoforms have been described, but their full-length natures have not been determined. [provided by RefSeq]
<b>Molecular Mass</b>	108.9 kDa
<b>AA Sequence</b>	MSFVAGVIRRLDET VVNRIAAGEVIQR PANAIKEMIENCLDAKSTSIQVIVKEGGLKLIQ IQDNGTGIRKEDLDIVCERFTTSK LQSFEDLASISTYGFRGEALASISHVAHVTTITKTA DGKCA YRASYS DGK LKAPPKPCAGNQG TQITVEDLFYNIATRRKALKNPSEEY GKIL E VVGRYSVHNAGISFSVKKQGETVADVRTL PNA STVDNIRSIFGNAVSRELIEIGCED KTLAFKMNGYISNANYSVKKCIFLLFINHRLVESTSLRKA IETVYAA YLPKNTHPFLYLS LEISPQNV DVNVHPTKHEVHFLHEESILERVQQHIESKLLG SNSSRMYFTQ TLLPGLA GPSGEMVKSTTSLTSSSTSGSSDKVYAHQMVRTDSREQK LDAFLQPLSKPLSSQPQ

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AIVTEDKTDISSGRARQQDEEMLELPAPAEVAANKQSLEGDTTKGTSEMSEKRGPT  
 SSNPRKRHRESDVEMVEDDSRKEMTAACPRRRRIINLTSVLSLQEEINEQGHEVLR  
 EMLHNHSFVGCVNPQWALAQHQTKLYLLNTTKLSEELFYQILYDFANFGVLRRLSEP  
 APLFDLAMLALDSPESGWTEEDGPKKEGLAEYIVEFLKKAEMLADYFSLEIDEEGNLI  
 GLPLLIDNYVPPLEGLPIFILRLATEVNWDEEKECFESLSKECAMFYRSIRKQYISEESTL  
 SGQQSEVPGSIPNSWKWTVEHIVYKALRSHILPPKHFTEDGNILQLANLPDLYKVFER  
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**Applications**  
 Antibody Production  
 Functional Study  
 Compound Screening

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [MLH1 mutL homolog 1, colon cancer, nonpolyposis type 2 \(E. coli\) \[ Homo sapiens \]](#)

**Official Symbol** [MLH1](#)

**Synonyms** MLH1; mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli); COCA2, mutL (E. coli) homolog 1 (colon cancer, nonpolyposis type 2); DNA mismatch repair protein Mlh1; FCC2; HNPCC; HNPCC2; COCA2; hMLH1; MGC5172;

**Gene ID** [4292](#)

**mRNA Refseq** [NM\\_000249](#)

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**Protein Refseq** NP\_000240

**MIM** 120436

**UniProt ID** P40692

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