

## Product datasheet for **TP762356**

### MLH1 (NM\_000249) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), transcript variant 1, Ser339-Glu558, 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(Ser339-Glu558) of MLH1
Tag:	N-His
Predicted MW:	24.5 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:	<a href="#">NP_000240</a>
Locus ID:	4292
UniProt ID:	<a href="#">P40692</a>
RefSeq Size:	2662
Cytogenetics:	3p22.2
RefSeq ORF:	2268
Synonyms:	COCA2; FCC2; hMLH1; HNPCC; HNPCC2; MMRCS1



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**Summary:**

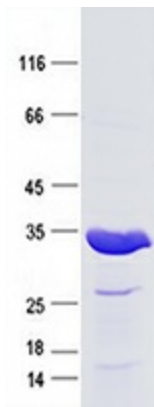
The protein encoded by this gene can heterodimerize with mismatch repair endonuclease PMS2 to form MutL alpha, part of the DNA mismatch repair system. When MutL alpha is bound by MutS beta and some accessory proteins, the PMS2 subunit of MutL alpha introduces a single-strand break near DNA mismatches, providing an entry point for exonuclease degradation. The encoded protein is also involved in DNA damage signaling and can heterodimerize with DNA mismatch repair protein MLH3 to form MutL gamma, which is involved in meiosis. This gene was identified as a locus frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). [provided by RefSeq, Aug 2017]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Colorectal cancer, Endometrial cancer, Mismatch repair, Pathways in cancer

**Product images:**

Purified recombinant protein MLH1 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.