

Product datasheet for **TP762539**

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, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region full length of MLH1
Tag:	N-GST and C-HIS
Predicted MW:	84.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50mM Tris, pH8.0, 8M Urea
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000240</u>
Locus ID:	4292
UniProt ID:	<u>P40692</u>
RefSeq Size:	2662
Cytogenetics:	3p22.2
RefSeq ORF:	2268
Synonyms:	COCA2; FCC2; hMLH1; HNPCC; HNPCC2; MMRCS1



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Summary:

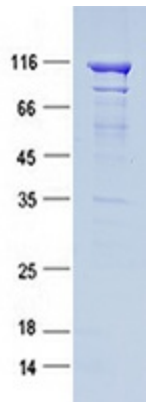
The protein encoded by this gene can heterodimerize with mismatch repair endonuclease PMS2 to form MutL alpha, part of the DNA mismatch repair system. When MutL alpha is bound by MutS beta and some accessory proteins, the PMS2 subunit of MutL alpha introduces a single-strand break near DNA mismatches, 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:

Coomassie blue staining of purified MLH1 protein (Cat #TP762539). The protein was produced from E.coli.