

# Recombinant Full Length Human MUTYH Protein, GST-tagged

**Cat. No.** MUTYH-6582HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Human MUTYH full-length ORF ( NP_001041636.1, 1 a.a. - 535 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>    | 535 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | This gene encodes a DNA glycosylase involved in oxidative DNA damage repair. The enzyme excises adenine bases from the DNA backbone at sites where adenine is inappropriately paired with guanine, cytosine, or 8-oxo-7,8-dihydroguanine, a major oxidatively damaged DNA lesion. The protein is localized to the nucleus and mitochondria. Mutations in this gene result in heritable predisposition to colon and stomach cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 85.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MTPLVSRLSRLWAIMRKPRAAVGSGHRKQAASQEGRQKHAKNNSQAKPSACDGLA<br>RQPEEVVLQASVSSYHLFRDVAEVTAFRGSLLSWYDQEKRDLPWRRRAEDEMDLD<br>RRAYAVWVSEVMLQQTQVATVINYYTGWMQKWPTLQDLASASLEEVLNQLWAGLG<br>YYSRGRRLQEGARKVVEELGGHMPRTAETLQQLPGVGRYTAGAIAAFGQATGV<br>VDGNVARVLCRVRAIGADPSSTLVSQQLWGLAQQQLVDPARPGDFNQAAMELGATV<br>CTPQRPLCSQCPVESLCRARQRVEQEQLLASGSLSGSPDVEECAPNTGQCHLCLP                                                                                                                                                                                   |

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PSEPWDQTLGVVNFPRKASRKPPREESSATCVLEQPGALGAQILLVQRPNSGLLAG  
LWEFPSVTWEPSEQLQRKALLQELQRWAGPLPATHLRHLGEVVHTFSHIKLTYYQVY  
GLALEGQTPVTTVPPGARWLTQEEFHTAAVSTAMKKVFRVYQGQQPGTCMGSKRS  
QVSSPCSRKKPRMGQQVLDNFFRSHISTDAHSLNSAAQ

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**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** [MUTYH mutY homolog \(E. coli\) \[ Homo sapiens \]](#)

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

**Synonyms** MUTYH; mutY homolog (E. coli); mutY (E. coli) homolog; A/G-specific adenine DNA glycosylase; MYH; CYP2C; MGC4416;

**Gene ID** [4595](#)

**mRNA Refseq** [NM\\_001048171](#)

**Protein Refseq** [NP\\_001041636](#)

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| MIM | 604933 |
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| UniProt ID | Q9UIF7 |
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