

## Product datasheet for TP312608

### MSH5 (NM\_172166) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human mutS homolog 5 (E. coli) (MSH5), transcript variant 4, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212608 representing NM_172166 Red=Cloning site Green=Tags(s)

MASLGANPRRTPQGPRPGAASSGFSPAPVPGPREAEEEEVEEEEEELAEIHLCVLWNSGYLGIAYYDTS  
STIHFMPDAPDHESLKLQRLVLEINPQSVVTSKQDENMTRFLGKLASQEHREPKRPEIIFLPSVDFGL  
EISKQRLLSGNYSFIPDAMTATEKILFLSSIIPFDCLLTVRALGGLLKFLGRRRIGVELEDYNVSVPIG  
FKKFMLTHLVNIDQDTYSVLQIFKSESHPSVYKVASGLKEGLSLFGILNRCHCKWGKLLRLWFTRP  
LGLSSRLDVIQFFLLPQNLDMAQMLHRLGHKKNVPLILKRMKLSHTKVSQVLYKTVYSALGLRDAC  
RSLPQSIQLFRDIAQEFSDDLHHIASLIGKVDFEGSLAENRFTVLPNIDPEIDEKRRMLMGLPSFLTEV  
ARKELENLDSRIPSCSVIYIPLIGFLLSIPRLPSMVEASDFEINGLDFMFLSEEKLYHSARTKELDALL  
GDLHCEIRDQETLLMYQLQCQVLARAVALTRVLDLASRLDVLALASAARDYGYSPRYSPQVLGVRIQN  
GRHPLMELCARTFVPNSTECGGDKGRVKVITGPNSSGKSIYKQVGLITFMALVGSFVPAEEAEIGAVDA  
IFTRIHSCESISLGLSTFMIDLNQVAKAVNNATAQSLVLIDFEGKGTNTVDGLALLAAVLRHWLARGPTC  
PHIFVATNFLSLVQLQLLPQGPLVQYLTMETCEDGNDLVFFYQVCEGVAKASHASHTAAQAGLPDKLVAR  
GKEVSDLIRSGKPIKPVKDLLKKNQMENCQTLVDKFMKLDLEDPNLDLNVFMSQEVLPAAATSIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

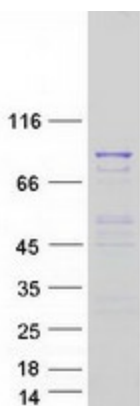
Tag:	C-Myc/DDK
Predicted MW:	92.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_751898</a>
<b>Locus ID:</b>	4439
<b>UniProt ID:</b>	<a href="#">O43196</a> , <a href="#">A0A024RCM1</a>
<b>RefSeq Size:</b>	3968
<b>Cytogenetics:</b>	6p21.33
<b>RefSeq ORF:</b>	2502
<b>Synonyms:</b>	G7; MUTSH5; NG23; POF13
<b>Summary:</b>	<p>This gene encodes a member of the mutS family of proteins that are involved in DNA mismatch repair and meiotic recombination. This protein is similar to a <i>Saccharomyces cerevisiae</i> protein that participates in segregation fidelity and crossing-over events during meiosis. This protein plays a role in promoting ionizing radiation-induced apoptosis. This protein forms hetero-oligomers with another member of this family, mutS homolog 4. Polymorphisms in this gene have been linked to various human diseases, including IgA deficiency, common variable immunodeficiency, and premature ovarian failure. Alternative splicing results multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 6 open reading frame 26 (C6orf26) gene. [provided by RefSeq, Feb 2011]</p>
<b>Protein Families:</b>	Druggable Genome

### Product images:



Coomassie blue staining of purified MSH5 protein (Cat# TP312608). The protein was produced from HEK293T cells transfected with MSH5 cDNA clone (Cat# [RC212608]) using MegaTran 2.0 (Cat# [TT210002]).