

## Product datasheet for PH300607

### MSH5 (NM\_002441) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MSH5 MS Standard C13 and N15-labeled recombinant protein (NP_002432)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200607
Predicted MW:	93 kDa
Protein Sequence:	>RC200607 protein sequence Red=Cloning site Green=Tags(s)

MASLGANPRRTPQGPRPGAASSGFSPAPVPGPREAEVEVEVEVEELAEIHLCVLWNSGLGIAYYDTS  
STIHFMPDAPDHESLKLLQQRVLDEINPQSVVTSAKQDENMTRFLGKLASQEHREPKRPEIIFLPSVDFGL  
EISKQRLLSGNYSFIPDAMTATEKILFLSSIIPFDCLLTVRALGGLLKFLGRRRIGVELEDYNVSVPIIG  
FKKFMLTHLVNIDQDTYSVLQIFKSESHPSVYKVASGLKEGLSLFGILNRCHCKWGEKLLRWFTRPTH  
LGELSSRLDVIQFFLLPQNLDMAQMLHRLLGHIKNVPLILKRMKLSHTKVSDWQVLYKTVYSALGLRDAC  
RSLPQSIQLFRDIAQEFSDDLHHIASLIGKVDFEGSLAENRFTVLPNIDPEIDEKKRRLMGLPSFLTEV  
ARKELENLDSRIPSCSVIYIPLIGFLLSIPRLPSMVEASDFEINGLDFMFLSEEKLYHSARTKELDALL  
GDLHCEIRDQETLLMYQLQCQVLAARAVALTRVLDLASRLDVLALASAARDYGYSRPRYSQVGLGVRIQN  
GRHPLMELCARTFVPNSTECGGDKGRVKVITGPNSSGKSIYLKQVGLITFMALVGSFVPAEEAEIGAVDA  
IFTRIHCESISLGLSTFMIDLNQQVAKAVNNATAQSLVLIDFEGKGTNTVDGLALLAAVLRHWLARGPT  
CPHIFVATNFLSLVQLQLLPQGPLVQYLTMETCEDGNDLVFFYQVCEGVAKASHASHTAAQAGLPDKLVA  
RGKEVSDLIRSGKPIKPVKDLLKKNQMCQTLVDKFMKLDLEDPNLDLNVFMSQEVLPAAATSIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002432</a>



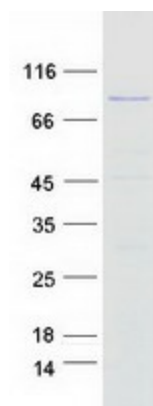
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RefSeq Size:	2945
RefSeq ORF:	2505
Synonyms:	G7; MUTSH5; NG23; POF13
Locus ID:	4439
UniProt ID:	<a href="#">O43196</a> , <a href="#">A0A024RCM1</a>
Cytogenetics:	6p21.33

**Summary:** 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 *Saccharomyces cerevisiae* 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]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified MSH5 protein (Cat# [TP300607]). The protein was produced from HEK293T cells transfected with MSH5 cDNA clone (Cat# [RC200607]) using MegaTran 2.0 (Cat# [TT210002]).