

# Recombinant Full Length Human MUT Protein, GST-tagged

Cat. No. MUT-6579HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MUT full-length ORF ( AAH16282, 1 a.a. - 750 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>	750 amino acids
<b>Description</b>	This gene encodes the mitochondrial enzyme methylmalonyl Coenzyme A mutase. In humans, the product of this gene is a vitamin B12-dependent enzyme which catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA, while in other species this enzyme may have different functions. Mutations in this gene may lead to various types of methylmalonic aciduria. [provided by RefSeq
<b>Molecular Mass</b>	108.24 kDa
<b>AA Sequence</b>	MLRAKNQLFLLSPHYLRQVKESGSRLIQQRLLHQQQLHPPEWAALAKKQLKGKNP EDLIWHTPEGISIKPLYSKGDTMDLPEELPGVKPFTRGPYPTMYTFRPWITIRQYAGF STVEESNKFYKDNKAGQQGLSVAFDLATHRGYSDNPRVRGDVGMAGVAIDTVED TKILFDGIPLEKMSVSMTMNGAVIPVLANFIVTGEEQGVPEKELTGTIQNDILKEFMVR NTYIFPPEPSMKIADIFEYTAKHMPKFNSISISGYHMQEAGADAILELAYTLADGLEYS RTGLQAGLTIDEFAPRLSFFWIGIMNFYMEIAKMRAGRRLWAHLIEKMFQPKNSKSL LLRAHCQTSWLSLTEQDPYNNIVRTAIEAMAAVFGGTQSLHTNSFDEALGLPTVKSA RIARNTQIIIQEESGIPKVADPWGGSYMMECLTNDVYDAALKLINEIEEMGGMAKAVA

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EGIPKLRIEECAARRQARIDSGSEVIVGVNKYQLEKEDTVEVLAI DNTSVRNRQIEKLK  
 KIKSSRDQALAERCLAALTECAASGDGNILALAVDASRARCTVGEITDALKKVFGGEHK  
 ANDRMVSGAYRQEFGESKEITSAIKRVHKFMEREGRRPRLLVAKMGQDGHDRGAK  
 VIATGFADLGFVDIGPLFQTPREVAQQAVDADVHAVGVNTLAAGHKTLVPELIKELN  
 SLGRPDILVMCGGVIPPQDYEFLEFVGVSNVFGPGTRIPKAAVQVLDIEKCLEKKQ  
 QSV

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	MUT methylmalonyl CoA mutase [ Homo sapiens ]
<b>Official Symbol</b>	MUT
<b>Synonyms</b>	MUT; methylmalonyl CoA mutase; methylmalonyl Coenzyme A mutase; methylmalonyl-CoA mutase, mitochondrial; methylmalonyl-CoA isomerase; MCM;
<b>Gene ID</b>	4594
<b>mRNA Refseq</b>	NM_000255

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**Protein Refseq** NP\_000246

**MIM** 609058

**UniProt ID** P22033

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