

## Recombinant Human MARS, GST-tagged

Cat. No. MARS-21H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MARS(801 a.a. - 899 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules.
<b>Molecular Mass</b>	36.63 kDa
<b>AA Sequence</b>	LFQKLENDQIESLRQRFGGGQAKTSPKPAVVETVTTAKPQQIQALMDEVTKQGNIVR ELKAQKADKNEVAAEVAK LLDLKKQLAVAEGKPPEAPKGKKK
<b>Applications</b>	ELISA; WB-Re; AP; Array
<b>Storage</b>	Store at -80°C. 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

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<b>Gene Name</b>	MARS methionyl-tRNA synthetase [ Homo sapiens (human) ]
<b>Official Symbol</b>	MARS
<b>Synonyms</b>	MARS; MRS; METRS; MTRNS; SPG70; methionyl-tRNA synthetase; methionine--tRNA ligase, cytoplasmic; cytosolic methionyl-tRNA synthetase; NP_004981.2; EC 6.1.1.10
<b>Gene ID</b>	4141
<b>mRNA Refseq</b>	NM_004990
<b>Protein Refseq</b>	NP_004981
<b>MIM</b>	156560
<b>UniProt ID</b>	P56192
<b>Chromosome Location</b>	12q13
<b>Pathway</b>	Aminoacyl-tRNA biosynthesis; Cytosolic tRNA aminoacylation; Selenocompound metabolism
<b>Function</b>	ATP binding; methionine-tRNA ligase activity; tRNA binding

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