Recombinant Human EARS2, GST-tagged

Cat. No. EARS2-12255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EARS2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-351a.a.
Description	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. The protein encoded by this gene belongs to the class-I aminoacyl-tRNA synthetase family and catalyzes the attachment of glutamate to tRNA(Glu). Alternative splicing results in multiple transcript variants.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	EARS2 glutamyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens]
Official Symbol	EARS2

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Synonyms	EARS2; glutamyl-tRNA synthetase 2, mitochondrial (putative); probable glutamate--tRNA ligase, mitochondrial; glutamate tRNA ligase 2; mitochondrial (putative); KIAA1970; MSE1; gluRS; glutamate--tRNA ligase; glutamate tRNA ligase 2, mitochondrial; probable glutamyl-tRNA synthetase, mitochondrial;
Gene ID	124454
mRNA Refseq	NM_001083614
Protein Refseq	NP_001077083
MIM	612799
UniProt ID	Q5JPH6
Chromosome Location	16p12.3
Pathway	Aminoacyl-tRNA biosynthesis, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, conserved biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, organism-specific biosystem; Aminoacyl-tRNA biosynthesis, eukaryotes, conserved biosystem; Gene Expression, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Mitochondrial tRNA aminoacylation, organism-specific biosystem;
Function	ATP binding; RNA binding; glutamate-tRNA ligase activity; glutamate-tRNA(Gln) ligase activity; ligase activity; nucleotide binding;

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