

Recombinant Full Length Human EARS2 Protein, GST-tagged

Cat. No. EARS2-4132HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human EARS2 full-length ORF (NP_597708.1, 1 a.a. - 523 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	523 amino acids
Description	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. This protein is encoded by the nuclear genome but is likely to be imported to the mitochondrion where it is thought to catalyze the ligation of glutamate to tRNA molecules. Mutations in this gene have been associated with combined oxidative phosphorylation deficiency 12 (COXPD12). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]
Molecular Mass	85.1 kDa
AA Sequence	MAALLRRLQLQERPSAASGRPVGRRANLGTDAVAVRVRFAPSPTGFLHLGGLRT ALYNYIFAKKYQGSFILRLEDTDQTRVVPGAENIEDMLEWAGIPPDESPPRRGGPAG PYQQSQRLLEYAQATEALLKTGAAYPCFCSPQRLELLKKEALRNHQTPRYDNRCRN MSQEQVAQKLAKDPKPAIRFRLEQVVPFQDLVYGWNRHEVASVEGDPVIMKSDG FPTYHLACVDDHMHGISHVLRGSEWLVTAKHLLLYQALGWQPPHFAHLPLLLNR DGSKLSKRQGDVFLEHFAADGFLPDSLDDITNCGSGFAENQMGRITLPELITQFNLT

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QVTCHSALLDLEKLPEFNRLHLQRLVSNESQRRQLVGKLQVLVEEAFGCQLQNRDV
LNPVYVERILLRQGHICRLQDLVSPVYSYLWTRPAVGRAQLDAISEKVDVIAKRVLG
LLERSGMSLTQDMLNGELKKLSEGLEGTKYSNVMKLLRMALSGQQGPPVAEMML
ALGPKEVRERIQKVSS

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

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

Official Symbol [EARS2](#)

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](#)

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Protein Refseq	NP_001077083
MIM	612799
UniProt ID	Q5JPH6

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