

Recombinant Human EARS2 Protein, GST-tagged

Cat. No. EARS2-3016H **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	Wheat Germ
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	MAALLRRLQLQERPSAASGRPVGRREANLGTDAVAVRVRFAPSPTGFLHLGGLRT ALYNYIFAKKYQGSFILRLDQTRVVPGAENIEDMLEWAGIPPDESPPRRGGPAG PYQQSQRLLEYAQATEALLKTGAAYPCFCSPQRLELLKKEALRNHQTTRYDNRCRN MSQEQVAQKLAKDPKPAIRFRLEQVVPAFQDLVYGWNRHEVASVEGDPVIMKSDG FPTYHLACVVDDHHMGISHVLRGSEWLVSATAHLLLYQALGWQPPHFAHLPLLLNR DGSKLKSRQGDVFLHFADGFLPDSDLITNCGSGFAENQMGRITLPELITQFNLT QVTCHSALLDLEKLPEFNRLHLQRLVSNESQRRQLVGKLQVLVEEAFGCQLQNRDV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LNPVYVERILLRQGHICRLQDLVSPVYSYLWTRPAVGRAQLDAISEKVDVIAKRVLG
LLERSGMSLTQDMLNGELKKLSEGLEGTKYSNVMKLLRMALSGQQQGPPVAEMML
ALGPKEVRERIQKVVSS

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](#)

Protein Refseq

[NP_001077083](#)

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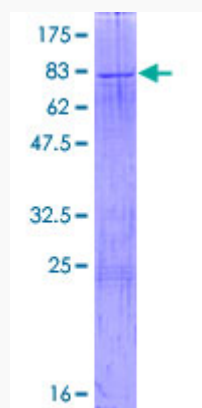
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 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM 612799

UniProt ID Q5JPH6

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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