Recombinant Human CARS2 Protein, GST-Tagged

Cat. No. CARS2-0405H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CARS2 full-length ORF (BAB13978.1, 1 a.a. - 564 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a putative 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 cysteine to tRNA molecules. A splice-site mutation in this gene has been associated with a novel progressive myoclonic epilepsy disease with similar symptoms to MERRF syndrome. [provided by RefSeq, Mar 2015]
Molecular Mass	88.6 kDa
AA Sequence	MLRTTRGPGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQ VYNSLTGRKEPLIVAHAEAASWYSCGPTVYDHAHLGHACSYVRFDIIRRILTKVFGCS IVMVMGITDVDDKIIKRANEMNISPASLASLYEEDFKQDMAALKVLPPTVYLRVTENIP QIISFIEGIIARGNAYSTAKGNVYFDLKSRGDKYGKLVGVVPGPVGEPADSDKRHASD FALWKAAKPQEVFWASPWGPGRPGWHIECSAIASMVFGSQLDIHSGGIDLAFPHHE NEIAQCEVFHQCEQWGNYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTFSPDVFR FFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLEDARAYMKGQLACGSVREAMLWE

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	RLSSTKRAVKAALADDFDTPRVVDAILGLAHHGNGQLRASLKEPEGPRSPAVFGAIIS YFEQFFETVGISLANQQYVSGDGSEATLHGVVDELVRFRQKVRQFALAMPEATGDA RRQQLLERQPLLEACDTLRRGLTAHGINIKDRSSTTSTWELLDQRTKDQKSAG
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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	CARS2 cysteinyl-tRNA synthetase 2, mitochondrial (putative) [Homo sapiens]
Official Symbol	CARS2
Synonyms	CARS2; cysteinyl-tRNA synthetase 2, mitochondrial (putative); probable cysteine--tRNA ligase, mitochondrial; cysteine tRNA ligase 2; mitochondrial (putative); FLJ12118; cysRS; cysteine--tRNA ligase; cysteine tRNA ligase 2, mitochondrial (putative); probable cysteinyl-tRNA synthetase, mitochondrial; FLJ42514; DKFZp667A2315; DKFZp686G08243;
Gene ID	79587
mRNA Refseq	NM_024537
Protein Refseq	NP_078813

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MIM	612800
UniProt ID	Q9HA77

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