

Recombinant Full Length Human CARS2 Protein, GST-tagged

Cat. No. CARS2-2898HF **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	In Vitro Cell Free System
ProteinLength	564 amino acids
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	MLRTRTGRPGGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQ VYNSLTGRKEPLIVAHAEASWYSCGPTVYDHAHLGHACSYVRFDIIRRLTKVFGCS IVMVMGITDVDDKIIKRANEMNISPASLASLYEEDFKQDMAALKVLPPTVYLRVTENIP QIISFIEGIIARGNAYSTAKGNVYFDLKS RGD KYGKLVGVVPGVPGEPADSDKRHASD FALWKA AKPQE VFWASPWGPGRPGWHIECSA IAS MVFGS QLDIHS GGIDLAFPHHE NEIAQCEVFHQCEQWGN YFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKT FSPDVFR

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FFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLEDARAYMKGQLACGSVREAMLWE
 RLSSTKRAVKAALADDFDTPRVVDAILGLAHHGNGQLRASLKEPEGPRSPAVFGAIIS
 YFEQFFETVGLISLANQQYVSGDGSEATLHGVVDELVRFRQKVRQFALAMPEATGDA
 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
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UniProt ID	Q9HA77
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