

## Product datasheet for **TP300311**

### Lysyl tRNA synthetase (KARS) (NM\_005548) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human lysyl-tRNA synthetase (KARS), transcript variant 2

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC200311 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEES  
VDPNQYYKIRSQAIHQLKVNAGEDPYPHKFHVDISLTDIFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGG  
KLIFYDLRGEGVKLQVMANSRNYKSEEEFIHINNKLRGDIIGVQGNPGKTKKGELSIIPEITLLSPCL  
HMLPHLHFLGKDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFDELGFLEIETPMMNIIIPGGAVA  
KPFITYHNELDMNLYMRIAPELYHKMLVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDL  
MEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETR  
KILDDICVAKAVECPPRRTARLLDKLVGEFLEVTCINPTFICDHPQIMSPLAKWHRSEGLTERFELFV  
MKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTD  
SNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 67.9 kDa

**Concentration:** >50 ug/mL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_005539](#)



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Locus ID: 3735

UniProt ID: [Q15046](#)

RefSeq Size: 2017

Cytogenetics: 16q23.1

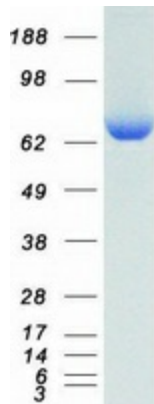
RefSeq ORF: 1791

Synonyms: CMTRIB; DEAPLE; DFNB89; KARS; KARS2; KRS; LEPID

**Summary:** Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. Lysyl-tRNA synthetase is a homodimer localized to the cytoplasm which belongs to the class II family of tRNA synthetases. It has been shown to be a target of autoantibodies in the human autoimmune diseases, polymyositis or dermatomyositis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified KARS protein (Cat# TP300311). The protein was produced from HEK293T cells transfected with KARS cDNA clone (Cat# [RC200311]) using MegaTran 2.0 (Cat# [TT210002]).