

## Product datasheet for TP324092M

### CARS1 (NM\_001014437) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cysteinyl-tRNA synthetase (CARS), transcript variant 3, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC224092 representing NM_001014437 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MADSSGQQAPDYRSILSISDEAARAQALNEHLSTRSYVQGYLSQADVDAFRQLSAPPADPQLFHVARWF  
RHIEALLGSPCGKGQPCRLQASKGRRVQPQWSPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGP  
TVYDASHMGHARSYISFDILRRVLKDYFKFDVFCMNITDIDDKIIKRARQNLHFEQYREKRPEAAQLLE  
DVQAALKPFSVKLNETTDPDKKQMLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVELLEEAKDLLSDW  
LDSTLGCDVTDNSIFSKLPKFWEGDFHRDMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVNSGS  
VYFDTAKFASSEKHSYGKLVPEAVGDQKALQEGEGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPW  
GKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHDNELAQSEAYFENDCWVRYFLHTGHHTIAGCKM  
SKSLKNFITIKDALKKHSARQLRLAFLMHSWKDLDYSSNTMESALQYEKFLNEFFLNVDILRAPVDIT  
GQFEKWGEEEEALNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQCPLYMAARKAVRKRPNQALLEN  
ALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSEATVMPYLQVLSEFREGVRKIAREQKVPEILQLSDAL  
RDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKEEAARRKQEQAAKLAKMKIPP  
SEMFLSETDKYSKFDENGLPTHDMEGKELSKGQAKKLLKLFQAQEKLYKEYLQMAQNGSFQ

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

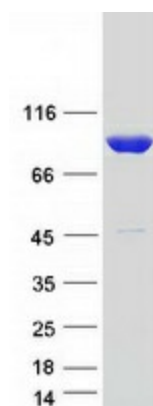
Tag:	C-Myc/DDK
Predicted MW:	94.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001014437</a>
<b>Locus ID:</b>	833
<b>UniProt ID:</b>	<a href="#">P49589</a>
<b>RefSeq Size:</b>	2767
<b>Cytogenetics:</b>	11p15.4
<b>RefSeq ORF:</b>	2493
<b>Synonyms:</b>	CARS; CYSRS; MCDDDBH; MDBH; MGC:11246
<b>Summary:</b>	This gene encodes a class 1 aminoacyl-tRNA synthetase, cysteinyl-tRNA synthetase. Each of the twenty aminoacyl-tRNA synthetases catalyzes the aminoacylation of a specific tRNA or tRNA isoaccepting family with the cognate amino acid. This gene is one of several located near the imprinted gene domain on chromosome 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocortical carcinoma, and lung, ovarian and breast cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2010]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified CARS protein (Cat# [TP324092]). The protein was produced from HEK293T cells transfected with CARS cDNA clone (Cat# [RC224092]) using MegaTran 2.0 (Cat# [TT210002]).