

## Product datasheet for PH324092

### CARS1 (NM\_001014437) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CARS MS Standard C13 and N15-labeled recombinant protein (NP_001014437)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC224092
Predicted MW:	94.5 kDa
Protein Sequence:	>RC224092 representing NM_001014437 Red=Cloning site Green=Tags(s)

MADSSGQQAPDYRSILSISDEAARAQALNEHLSTRSYVQGYLSQADVDAFRQLSAPPADPQLFHVARWF  
RHIEALLGSPCGKQPCRLQASKGRRVQPQWSPAGTQPCRLHLYNSLTRNKEVFIPODGGKVTWYCCGP  
TVYDASHMGHARSYISFDILRRVLKDYFKFDVFCMNITDIDDKIIKRARQNHLFEQYREKRPEAAQLLE  
DVQAALKPFSVKLNETTDPDKKQMLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLLEEAKDLLSDW  
LDSTLGCVDVTDNSIFSKLPKFWEGDFHRDMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNGS  
VYFDTAKFASSEKHSYGKLVPEAVGDQKALQEGEGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPW  
GKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHDNELAQSEAYFENDCWVRYFLHTGHLTIAGCKM  
SKSLKNFITIKDALKKHSARQLRLAFLMHSWKDITLDYSSNTMESALQYEKFLNEFFLNVDILRAPVDIT  
GQFEKWGEEEAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQCNLMAARKAVRKRPNQALLENL  
ALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSLEATVMPYLQVLSFREGVVKIAREQKVPKILQLSDAL  
RDNILPELGVRFEDHEGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKKEEAARRKQEQEAALKAKMKIPP  
SEMFLSETDKYSKFDENGLPTHDMEGKELSKGQAKKLLKLFEAQEKLKYEYLQMAQNGSFG

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001014437</a>



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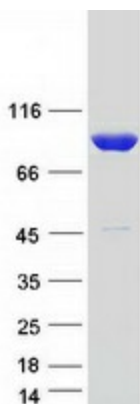
RefSeq Size:	2767
RefSeq ORF:	2493
Synonyms:	CARS; CYSRS; MCDDBH; MDBH; MGC:11246
Locus ID:	833
UniProt ID:	<a href="#">P49589</a>
Cytogenetics:	11p15.4

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** 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]).