

## Product datasheet for TP307360M

### DARS2 (NM\_018122) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aspartyl-tRNA synthetase 2, mitochondrial (DARS2), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207360 representing NM_018122 Red=Cloning site Green=Tags(s)

MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLLQSSQRRPEFSSFWRTNTCGELRSSHLGQEVTLCG  
WIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESVQVSGTVISRPAGQENPKMPTGEIE  
IKVKTAELLNACKKLPFEIKNFVKKTEALRLQYRYLDRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDI  
ETPTLFKRTPGGAKEFLVPSREPGKFYSLPQSPQQFKQLLMVGGDLDRYFQVARCVRDEGSRPDRQPEFTQ  
IDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDKPDTRFGMKIIDISDVFRN  
TEIGFLQDALSKPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEILPVFLNANRNWNVSPVANFIME  
SQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECADLLETRGVVLRDPTLFSFLWVDFPLFLPK  
EENPRELESAAHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKED  
VKMLSHLLQALDYGAPPHGGIALGLDRLICLVGTSPSIRDVIAFPKSFGRGHDLMSNTPDVPPEELKPYH  
IRVSKPTDSKAERAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	73.4 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.
Storage:	Store at -80°C.



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**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\\_060592](#)

**Locus ID:** 55157

**UniProt ID:** [Q6PI48](#), [Q9H9J7](#)

**RefSeq Size:** 3187

**Cytogenetics:** 1q25.1

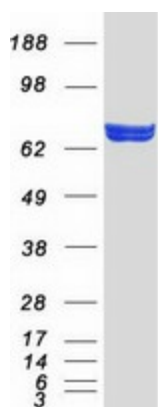
**RefSeq ORF:** 1935

**Synonyms:** ASPRS; LBSL; MT-ASPRS; mtAspRS

**Summary:** The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. It is a mitochondrial enzyme that specifically aminoacylates aspartyl-tRNA. Mutations in this gene are associated with leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). [provided by RefSeq, Nov 2009]

**Protein Pathways:** Aminoacyl-tRNA biosynthesis

### Product images:



Coomassie blue staining of purified DARS2 protein (Cat# [TP307360]). The protein was produced from HEK293T cells transfected with DARS2 cDNA clone (Cat# [RC207360]) using MegaTran 2.0 (Cat# [TT210002]).