

## Product datasheet for TP307360L

### 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, 1 mg |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC207360 representing NM_018122<br>Red=Cloning site Green=Tags(s)  |

MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLLQSSQRRPEFSSFWRTNTCGELRSSHLGQEVTLCG  
WIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESVQVSGTVISRPAGQENPKMPTGEIE  
IKVKTAELLNACKKLPFEIKNFVKKTEALRLQYRYLDRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDI  
ETPTLFKRTPGGAKEFLVPSREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCVRDEGSRPDRQPEFTQ  
IDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDPDTRFGMKIIDISDVFRN  
TEIGFLQDALSKPHGTVKAICIEGAKYLKRKDIESIRNFAADHFNQEILPVFLNANRNWNVSPVANFIME  
SQRLELIRLMETQEEDVLLTAGEHNKACSLGKLRLECADLLETRGVVLRDPTLFSFLWVDFPLFLPK  
EENPRELESAAHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKED  
VKMLSHLLQALDYGAPPHGGIALGLDRLICLVGTGSPSIRDVIAFPKSFGRGHDLMNSNTPDPSVPPEELKPYH  
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

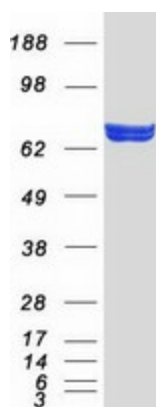
**RefSeq ORF:** 1935

**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]).