

## Recombinant Human DARS2 Protein, GST-tagged

**Cat. No.** DARS2-2350H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human DARS2 full-length ORF ( NP_060592.2, 1 a.a. - 645 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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]                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 100 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLQSSQRRRIPEFSSFVVRTNTCGEL<br>RSSHLGQEVTLCGWIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESV<br>VQVSGTVISRPAGQENPKMPTGEIEIKVKTAELLNACKKLPFEIKNFVKKTEALRLQY<br>RYLDLRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKEFLVP<br>SREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCVRDEGSRPDRQPEFTQIDIEM<br>SFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDKPDTRFGMKIID<br>ISDVFRNTEIGFLQDALSKPHGTVKAICIEGAKYLRKRDIESIRNFAADHFNQEILPVF<br>LNANRNWNVPANFIMESQRLELIRLMETQEEDVLLTAGEHNAKCSLLGKLRLCA<br>DLLETRGVVLRDPTLFSFLWVVDPLFLPKEENPRELESAHHPFTAPHPSDIHLLYTE |

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PKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKEDVKMLSHLLQALDYGAP  
PHGGIALGLDRLICLVGTGSPSIRDVIAFPKSFGRHDLMSNTPDVPPEELKPYHIRVSK  
PTDSKAERAH

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

DARS2 aspartyl-tRNA synthetase 2, mitochondrial [ Homo sapiens ]

**Official Symbol**

DARS2

**Synonyms**

DARS2; aspartyl-tRNA synthetase 2, mitochondrial; aspartate--tRNA ligase, mitochondrial; aspartate tRNA ligase 2; mitochondrial; FLJ10514; aspartate tRNA ligase 2, mitochondrial; aspartyl-tRNA synthetase, mitochondrial; LBSL; ASPRS; MT-ASPRS; RP3-383J4.2;

**Gene ID**

55157

**mRNA Refseq**

NM\_018122

**Protein Refseq**

NP\_060592

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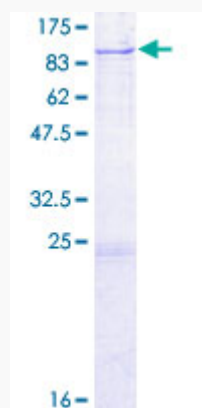
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**MIM** 610956

**UniProt ID** Q6PI48

**Quality Control  
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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