

## Recombinant Human AARS2 Protein, MYC/DDK-tagged

Cat. No. AARS2-240H Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant human AARS2 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                     |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description      | The protein encoded by this gene belongs to the class-II aminoacyl-tRNA synthetase family. Aminoacyl-tRNA synthetases play critical roles in mRNA translation by charging tRNAs with their cognate amino acids. The encoded protein is a mitochondrial enzyme that specifically aminoacylates alanyl-tRNA. Mutations in this gene are a cause of combined oxidative phosphorylation deficiency 8. [provided by RefSeq, Dec 2011]. |
| Form             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.                                                                                                                                                                                                                                                                                                                                                                            |
| Molecular Mass   | 107.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                  |

### GENE INFORMATION

|           |                                                          |
|-----------|----------------------------------------------------------|
| Gene Name | alanyl-tRNA synthetase 2, mitochondrial [ Homo sapiens ] |
|-----------|----------------------------------------------------------|

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|                 |                                         |
|-----------------|-----------------------------------------|
| Official Symbol | AARS2                                   |
| Synonyms        | AARSL; COXPD8; LKENP; MT-ALARS; MTALARS |
| Gene ID         | 57505                                   |
| mRNA Refseq     | NM_020745.3                             |
| Protein Refseq  | NP_065796.1                             |
| MIM             | 612035                                  |
| UniProt ID      | Q5JTZ9                                  |

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