

## Recombinant Human NDUFB9 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** NDUFB9-6366H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | NDUFB9 MS Standard C13 and N15-labeled recombinant protein (NP_004996) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene is a subunit of the mitochondrial oxidative phosphorylation complex I (nicotinamide adenine dinucleotide: ubiquinone oxidoreductase). Complex I is localized to the inner mitochondrial membrane and functions to dehydrogenate nicotinamide adenine dinucleotide and to shuttle electrons to coenzyme Q. Complex I deficiency is the most common defect found in oxidative phosphorylation disorders and results in a range of conditions, including lethal neonatal disease, hypertrophic cardiomyopathy, liver disease, and adult-onset neurodegenerative disorders. Pseudogenes of this gene are found on chromosomes five, seven and eight. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 21.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MAFLASGPYLTHQQKVLRLYKRALRHLESWCVQRDKYRYFACLMRARFEEHKNEK<br>DMAKATQLLKEAEEEFWYRQHPQPYIFPDSPGGTSYERYDCYKVPEWCLDDWHPS<br>EKAMYPDYFAKREQWKKLRRESWEREVKQLQEETPPGGPLTEALPPARKEGDLPP<br>LWWYIVTRPRERPMTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NDUFB9 NADH:ubiquinone oxidoreductase subunit B9 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | NDUFB9                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | NDUFB9; NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa; NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22); NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 9; B22; complex I B22 subunit; LYRM3; UQOR22; CI-B22; complex I-B22; LYR motif-containing protein 3; NADH-ubiquinone oxidoreductase B22 subunit; FLJ22885; DKFZp566O173; |
| <b>Gene ID</b>         | 4715                                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_005005                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_004996                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>             | 601445                                                                                                                                                                                                                                                                                                                                                                    |

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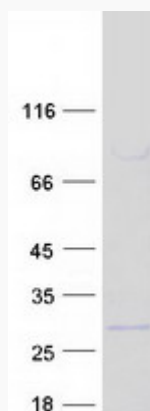
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UniProt ID

Q9Y6M9

SDS-PAGE

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